

# [MS-ADR]: Access Services Data Run Time Protocol Specification

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### Revision Summary

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Preliminary

# 1 Introduction

The Access Services Data Run Time Protocol enables a protocol client to execute and monitor tasks on a **database application**.

Sections 1.8, 2, and 3 of this specification are normative and contain RFC 2119 language. Sections 1.5 and 1.9 are also normative but cannot contain RFC 2119 language. All other sections and examples in this specification are informative.

## 1.1 Glossary

The following terms are defined in [\[MS-GLOS\]](#):

**Augmented Backus-Naur Form (ABNF)**  
**authentication**  
**credential**  
**domain**  
**GUID**  
**Hypertext Transfer Protocol (HTTP)**  
**Hypertext Transfer Protocol over Secure Sockets Layer (HTTPS)**  
**Security Support Provider Interface (SSPI)**  
**XML**

The following terms are defined in [\[MS-OFCGLOS\]](#):

**absolute URL**  
**alert**  
**base64 encoding**  
**caption**  
**collation**  
**column**  
**computed field**  
**control button**  
**culture name**  
**data culture**  
**data type**  
**database application**  
**endpoint**  
**expression**  
**fallback data culture**  
**fallback UI culture**  
**field**  
**fully qualified URL**  
**Help topic identifier**  
**host data language**  
**JavaScript Object Notation (JSON)**  
**lookup field**  
**moniker**  
**primary key**  
**record**  
**result set**  
**root element**  
**row**  
**session**  
**session identifier**



**Simple Object Access Protocol (SOAP)**  
**site**  
**site identifier**  
**SOAP action**  
**SOAP body**  
**SOAP fault**  
**SOAP fault detail**  
**SQL authentication**  
**state changing**  
**Status-Code**  
**table**  
**theme**  
**time zone**  
**time zone bias**  
**time zone daylight bias**  
**time zone daylight date**  
**time zone standard bias**  
**time zone standard date**  
**UI culture**  
**Uniform Resource Identifier (URI)**  
**user display name**  
**user name**  
**Web Services Description Language (WSDL)**  
**WSDL message**  
**WSDL operation**  
**XML namespace**  
**XML namespace prefix**  
**XML schema**

The following terms are specific to this document:

**MAY, SHOULD, MUST, SHOULD NOT, MUST NOT:** These terms (in all caps) are used as described in [\[RFC2119\]](#). All statements of optional behavior use either MAY, SHOULD, or SHOULD NOT.

## 1.2 References

References to Microsoft Open Specification documents do not include a publishing year because links are to the latest version of the documents, which are updated frequently. References to other documents include a publishing year when one is available.

### 1.2.1 Normative References

We conduct frequent surveys of the normative references to assure their continued availability. If you have any issue with finding a normative reference, please contact [dochelp@microsoft.com](mailto:dochelp@microsoft.com). We will assist you in finding the relevant information. Please check the archive site, <http://msdn2.microsoft.com/en-us/library/E4BD6494-06AD-4aed-9823-445E921C9624>, as an additional source.

[MS-AADT] Microsoft Corporation, "[Access Application Design Time Protocol Specification](#)".

[MS-ASDT] Microsoft Corporation, "[Access Server Design Time Protocol Specification](#)".

[MS-AXL2] Microsoft Corporation, "[Access Application Transfer Data Structure Version 2](#)".

[MS-BACPAC] Microsoft Corporation, "Data-Tier Application Schema and Data File (.bacpac) Format Structure Specification", <http://msdn.microsoft.com/en-us/library/hh289459.aspx>

[MS-CSOM] Microsoft Corporation, "[SharePoint Client Query Protocol Specification](#)".

[MS-DSDIFFGRAM] Microsoft Corporation, "[SharePoint Web Services: DataSet DiffGram Structure Specification](#)".

[MS-SPSTWS] Microsoft Corporation, "[SharePoint Security Token Service Web Service Protocol Specification](#)".

[RFC1766] Alvestrand, H., "Tags for the Identification of Languages", RFC 1766, March 1995, <http://www.ietf.org/rfc/rfc1766.txt>

[RFC2119] Bradner, S., "Key words for use in RFCs to Indicate Requirement Levels", BCP 14, RFC 2119, March 1997, <http://www.rfc-editor.org/rfc/rfc2119.txt>

[RFC2234] Crocker, D., and Overell, P., "Augmented BNF for Syntax Specifications: ABNF", RFC 2234, November 1997, <http://www.ietf.org/rfc/rfc2234.txt>

[RFC2616] Fielding, R., Gettys, J., Mogul, J., et al., "Hypertext Transfer Protocol -- HTTP/1.1", RFC 2616, June 1999, <http://www.ietf.org/rfc/rfc2616.txt>

[RFC3339] Klyne, G., and Newman, C., "Date and Time on the Internet: Timestamps", RFC 3339, July 2002, <http://www.ietf.org/rfc/rfc3339.txt>

[RFC4122] Leach, P., Mealling, M., and Salz, R., "A Universally Unique Identifier (UUID) URN Namespace", RFC 4122, July 2005, <http://www.ietf.org/rfc/rfc4122.txt>

[RFC4646] A. Phillips, Ed., and M. Davis, Ed., "Tags for Identifying Languages", BCP 47, RFC 4646, September 2006, <http://www.ietf.org/rfc/rfc4646.txt>

[RFC5234] Crocker, D., Ed., and Overell, P., "Augmented BNF for Syntax Specifications: ABNF", STD 68, RFC 5234, January 2008, <http://www.rfc-editor.org/rfc/rfc5234.txt>

[SOAP1.1] Box, D., Ehnebuske, D., Kakivaya, G., et al., "Simple Object Access Protocol (SOAP) 1.1", May 2000, <http://www.w3.org/TR/2000/NOTE-SOAP-20000508/>

[SOAP1.2/1] Gudgin, M., Hadley, M., Mendelsohn, N., Moreau, J., and Nielsen, H.F., "SOAP Version 1.2 Part 1: Messaging Framework", W3C Recommendation, June 2003, <http://www.w3.org/TR/2003/REC-soap12-part1-20030624>

[WSDL] Christensen, E., Curbera, F., Meredith, G., and Weerawarana, S., "Web Services Description Language (WSDL) 1.1", W3C Note, March 2001, <http://www.w3.org/TR/2001/NOTE-wsdl-20010315>

[XML] World Wide Web Consortium, "Extensible Markup Language (XML) 1.0 (Fourth Edition)", W3C Recommendation, August 2006, <http://www.w3.org/TR/2006/REC-xml-20060816/>

[XMLNS] Bray, T., Hollander, D., Layman, A., et al., Eds., "Namespaces in XML 1.0 (Third Edition)", W3C Recommendation, December 2009, <http://www.w3.org/TR/2009/REC-xml-names-20091208/>

[XMLSCHEMA1] Thompson, H.S., Ed., Beech, D., Ed., Maloney, M., Ed., and Mendelsohn, N., Ed., "XML Schema Part 1: Structures", W3C Recommendation, May 2001, <http://www.w3.org/TR/2001/REC-xmlschema-1-20010502/>

[XMLSCHEMA2] Biron, P.V., Ed. and Malhotra, A., Ed., "XML Schema Part 2: Datatypes", W3C Recommendation, May 2001, <http://www.w3.org/TR/2001/REC-xmlschema-2-20010502/>

## 1.2.2 Informative References

[MS-GLOS] Microsoft Corporation, "[Windows Protocols Master Glossary](#)".

[MS-OFGLGLOS] Microsoft Corporation, "[Microsoft Office Master Glossary](#)".

[MS-SPTWS] Microsoft Corporation, "[Service Platform Topology Web Service Protocol Specification](#)".

[RFC2818] Rescorla, E., "HTTP Over TLS", RFC 2818, May 2000, <http://www.ietf.org/rfc/rfc2818.txt>

## 1.3 Overview

This protocol is used for managing data maintained by a protocol server, which provides access to a protocol client that renders the data provided by the protocol server. The communication is always initiated by the protocol client using different operations, the functionality of which is outlined in section [1.3.2](#). A typical scenario for this protocol is opening a **result set** and updating data.

### 1.3.1 Session-based Protocol

The protocol is **session (2)** based and uses a unique **session identifier (2)**. This session identifier (2) is generated when a new session (2) is created and is used thereafter to refer to that particular session (2).

- Multiple sessions (2) can exist at the same time.
- Result sets are not shared across sessions (2).

Sessions (2) can be created and closed independently.

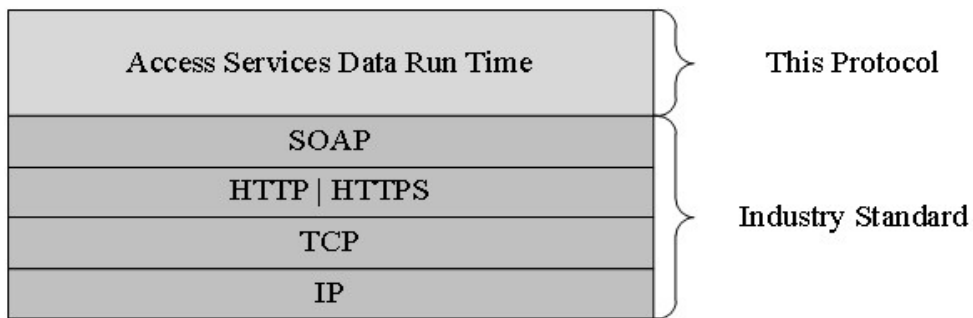
### 1.3.2 Protocol Operations

The protocol provides the following sets of functionality:

- Creation, modification, and deletion of objects in a database application.
- Querying a protocol server for information about a database application or the objects in it.
- Setting some behaviors for a database application.
- Creation of packages that describe a database application
- Creating and enabling logins on the database application, which enable connecting to the database application directly.
- Creating and managing databases that are used to store data in database applications.
- Creating, reading, updating and deleting data from the database application.
- Getting information about the protocol server.

## 1.4 Relationship to Other Protocols

The Access Services Data Run Time Protocol uses **SOAP** over **HTTP**, as described in [\[RFC2616\]](#), and SOAP over **HTTPS**, as described in [\[RFC2818\]](#), as shown in the following layering diagram:



**Figure 1: This protocol in relation to other protocols**

## 1.5 Prerequisites/Preconditions

This protocol operates against a protocol server that exposes one or more **endpoint (4) URIs** that are known by protocol clients. The endpoint (4) URI of the protocol server and the transport that is used by the protocol server are either known by the protocol client or obtained by using the discovery mechanism that is described in [\[MS-SPTWS\]](#).

The protocol client obtains the requisite ApplicationClassId and ApplicationVersion values and the endpoint (4) URI of the protocol server that provides the discovery mechanism, as described in [\[MS-SPTWS\]](#), by means that are independent of either protocol.

This protocol requires the protocol client to have appropriate permission to call the methods on the protocol server.

The protocol client implements the token-based security mechanisms that are required by the protocol server and related security protocols, as described in [\[MS-SPSTWS\]](#).

## 1.6 Applicability Statement

This protocol is applicable for the following scenarios:

- Creation, modification, and deletion of objects in a database application.
- Querying a protocol server for information about a database application or the objects in it.
- Setting some behaviors for a database application.
- Creation of packages that describe a database application
- Creating and enabling logins on the database application, which enable connecting to the database application directly.
- Creating and managing databases that are used to store data in database applications.
- Managing sessions (2) between protocol client and protocol server.
- Creating, reading, updating, or deleting data on the protocol server.
- Monitoring the health of the protocol server.

## 1.7 Versioning and Capability Negotiation

This protocol can be implemented by using transports that support sending Simple Object Access Protocol (SOAP) messages, as described in section [2.1](#).

## 1.8 Vendor-Extensible Fields

None.

## 1.9 Standards Assignments

None.

Preliminary

## 2 Messages

In the following sections, the schema definition might be less restrictive than the processing rules imposed by the protocol. The **WSDL** in this specification matches the **WSDL** that shipped with the product and provides a base description of the schema. The text that introduces the WSDL specifies additional restrictions that reflect actual Microsoft product behavior. For example, the schema definition might allow for an element to be **empty**, **null**, or **not present** but the behavior of the protocol as specified restricts the same elements to being **non-empty**, **not null** and **present**.

### 2.1 Transport

Protocol servers **MUST** support SOAP over HTTP or HTTPS.

All protocol messages **MUST** be transported by using HTTP or HTTPS bindings at the transport level.

Protocol messages **MUST** be formatted as specified by [\[SOAP1.2/1\]](#) section 5. Protocol server faults **MUST** be returned by using either an HTTP **Status-Code**, as specified by [\[RFC2616\]](#) section 10, or **SOAP faults**, as specified by [\[SOAP1.2/1\]](#) section 5.4.

If the **HTTPS** transport is used, a server certificate **MUST** be deployed.

This protocol **MAY** transmit an additional SOAP header, the **ServiceContext** header, as specified by [\[MS-SPSTWS\]](#) section 2.2.4.1.

This protocol does not define any means for activating a protocol server or protocol client. The protocol server **MUST** be configured and begin listening in an implementation-specific way. In addition, the protocol client **MUST** know the format and transport that is used by the protocol server, for example, the SOAP format over the HTTP transport.

### 2.2 Common Message Syntax

This section contains common definitions used by this protocol. The syntax of the definitions uses an **XML schema** as defined by [\[XMLSCHEMA1\]](#) and [\[XMLSCHEMA2\]](#), and the **WSDL** as defined by [\[WSDL\]](#).

#### 2.2.1 Namespaces

This specification defines and references various **XML namespaces** using the mechanisms specified in [\[XMLNS\]](#). Although this specification associates a specific **XML namespace prefix** for each XML namespace that is used, the choice of any particular XML namespace prefix is implementation-specific and not significant for interoperability.

| Prefix | Namespace URI   | Reference                 |
|--------|---|---------------------------|
| q1     | <a href="http://microsoft.com/wsd/types/">http://microsoft.com/wsd/types/</a>   |                           |
| soap   | <a href="http://schemas.xmlsoap.org/wsd/soap/">http://schemas.xmlsoap.org/wsd/soap/</a>   | <a href="#">[SOAP1.1]</a> |
| tns    | <a href="http://schemas.datacontract.org/2004/07/Microsoft.Office.Access.Services">http://schemas.datacontract.org/2004/07/Microsoft.Office.Access.Services</a>   |                           |
| tns1   | <a href="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/">http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/</a>               |                           |
| tns2   | <a href="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/Imports">http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/Imports</a> |                           |

| Pref ix  | Namespace URI                            | Reference  |
|----------|--|--|
| wsa<br>w | http://www.w3.org/2006/05/addressing/wsd |  |
| wsdl     | http://schemas.xmlsoap.org/wsdl/         | <a href="#">[WSDL]</a>   |
| xs       | http://www.w3.org/2001/XMLSchema         | <a href="#">[XMLSCHE<br/>MA1]</a><br><a href="#">[XMLSCHE<br/>MA2]</a> |

## 2.2.2 Messages

This specification does not define any common **WSDL** message definitions.

## 2.2.3 Elements

This specification does not define any common XML schema element definitions.

## 2.2.4 Complex Types

The following table summarizes the set of common XML schema complex type definitions defined by this specification. XML schema complex type definitions that are specific to a particular operation are described with the operation.

| Complex Type        | Description  |
|---------------------|--|
| AccessServerMessage | The <b>AccessServerMessage</b> complex type contains information about an <b>alert</b> .   |
| ArrayOfAnyType      | Specifies a set of <b>anyType</b> elements.  |
| ArrayOfKeyValuePair | An array of <b>KeyValuePair</b> elements.  |
| CommandParameter    | The <b>CommandParameter</b> complex type is an input used by some protocol server operations.<br>The following applies to the <b>CommandParameter</b> complex type, unless extended or overridden by an operation specification:   |
| CommandResult       | The <b>CommandResult</b> complex type is an operation response message used by all protocol server operations.<br>The following applies to the <b>CommandResult</b> complex type, unless extended or overridden by an operation specification:   |
| DatabaseContext     | Specifies metadata about a database.   |
| FieldList           | Specifies a collection of <b>fields (3)</b> .  |
| FilterInfo          | Specifies how to filter a result set. The <b>Expression</b> and <b>Text</b> elements are complementary ways of filtering the result set. If both <b>Expression</b> and <b>Text</b> are specified by the protocol client and are not empty, the result set <b>MUST</b> only contain those <b>rows</b> that meet the conditions specified by both the <b>Expression</b> and <b>Text</b> elements. If only one of the <b>Expression</b> and <b>Text</b> elements is specified and non-empty, the result set <b>MUST</b> be filtered to only those rows that meet the conditions specified by that element. If |

| Complex Type               | Description   |
|----------------------------|---|
|                            | both the <b>Expression</b> and <b>Text</b> elements are empty or not specified, then all rows from the result set <b>MUST</b> be returned by the protocol server. |
| KeyValuePair               | The <b>KeyValuePair</b> complex type is used as a container for a key and its associated value.   |
| NetworkCredential          | Specifies <b>credentials</b> for password-based <b>authentication</b> schemes.  |
| ProvisionedDatabaseContext | Specifies information about a database after its creation.  |
| SecureString               | Specifies an empty element.   |
| ServerContext              | Specifies information about a server on which databases are located.  |
| ServerHealthInformation    | The <b>ServerHealthInformation</b> complex type contains information about the health of the protocol server.   |
| ServerHealthInformation    | The <b>ServerHealthInformation</b> complex type contains information about the health of the protocol server.   |
| WorkOnBehalf               | <b>MUST NOT</b> be used.  |

### 2.2.4.1 AccessServerMessage

**Namespace:** http://schemas.datacontract.org/2004/07/Microsoft.Office.Access.Services

The **AccessServerMessage** complex type contains information about an alert.

```
<xs:complexType name="AccessServerMessage" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="Buttons" type="tns:AccessServerMessageButtons"/>
    <xs:element minOccurs="0" name="Caption" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="Description" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="ErrorNumber" nillable="true" type="xs:int"/>
    <xs:element minOccurs="0" name="ExtendedDescription" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="HealthInformation" nillable="true"
type="tns:ServerHealthInformation"/>
    <xs:element minOccurs="0" name="HelpDisplayText" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="HelpTopicId" nillable="true" type="xs:string"/>
    <xs:element minOccurs="0" name="Id" type="tns:AccessServerMessageId"/>
    <xs:element minOccurs="0" name="MessageType" type="tns:AccessServerMessageType"/>
    <xs:element minOccurs="0" name="Severity" type="tns:AccessServerMessageSeverity"/>
  </xs:sequence>
</xs:complexType>
```

**Buttons:** An **AccessServerMessageButtons** (section [2.2.5.1](#)) that specifies the **control buttons** of the alert. **MUST** be present.

**Caption:** A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the **caption** of the alert. **MUST** be present.

**Description:** A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the description of the alert. **MUST** be present. **MUST NOT** be empty.

**ErrorNumber:** **MUST NOT** be used.



**ExtendedDescription:** A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the extended description of the alert. MUST NOT be used.

**HealthInformation:** A **ServerHealthInformation** (section [2.2.4.6](#)) that specifies the health information of the protocol server. MUST be present.

**HelpDisplayText:** A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies a description of the help topic. MUST be present.

**HelpTopicId:** A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the **Help topic identifier**.

**Id:** An **AccessServerMessageId** (section [2.2.5.2](#)) that specifies the identifier of the alert. MUST be present.

**MessageType:** An **AccessServerMessageType** (section [2.2.5.4](#)) that specifies the type of the alert. MUST be present.

**Severity:** An **AccessServerMessageSeverity** (section [2.2.5.3](#)) that specifies the severity of the alert. MUST be present.

### 2.2.4.2 ArrayOfKeyValuePair

**Namespace:**

<http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/>

An array of **KeyValuePair** elements.

```
<xs:complexType name="ArrayOfKeyValuePair" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="KeyValuePair"
      type="tns1:KeyValuePair"/>
  </xs:sequence>
</xs:complexType>
```

**KeyValuePair:** A **KeyValuePair** (section [2.2.4.5](#)) that specifies a key and its associated value. Each **KeyValuePair** in the **ArrayOfKeyValuePair** element MUST have a unique value in its **Key** element.

### 2.2.4.3 CommandParameter

**Namespace:**

<http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/>

The **CommandParameter** complex type is an input used by some protocol server operations.

The following applies to the **CommandParameter** complex type, unless extended or overridden by an operation specification:

```
<xs:complexType name="CommandParameter" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="1" name="WorkbookId" type="xs:string"/>
    <xs:element minOccurs="1" maxOccurs="1" name="StateId" type="xs:int"/>
    <xs:element minOccurs="0" maxOccurs="1" name="WorkOnBehalfRequest"
      type="tns1:WorkOnBehalf"/>
  </xs:sequence>
</xs:complexType>
```

```

<xs:element minOccurs="0" maxOccurs="1" name="ProtocolClientId" type="xs:string"/>
<xs:element minOccurs="0" maxOccurs="1" name="UserFriendlyDisplayName" type="xs:string"/>
<xs:element minOccurs="0" maxOccurs="1" name="Zone" type="xs:string"/>
<xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="RequestSiteId" type="q1:guid"/>
<xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="CorrelationId" type="q1:guid"/>
<xs:element minOccurs="0" maxOccurs="1" name="RequestId" type="xs:string"/>
<xs:element minOccurs="1" maxOccurs="1" name="CompleteResponseTimeout" type="xs:int"/>
</xs:sequence>
</xs:complexType>

```

**WorkbookId:** A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the session identifier (2) that is returned in the **sessionId** of the **OpenSessionResponse** element (section 3.2.4.11.2.2).

- If present, MUST NOT be empty and MUST be as specified in section 2.2.5.8.

For all operations other than **OpenSession** (section 3.2.4.11), MUST be present and MUST have a value that was obtained from a previous call to the **OpenSession** operation.

**StateId:** A **string** ([XMLSCHEMA2] section 3.2.1) that specifies a unique identifier for the state of a session (2). MUST be "-1".

**WorkOnBehalfRequest:** MUST NOT be present.

**ProtocolClientId:** MUST NOT be present.

**UserFriendlyDisplayName:** A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the **user display name**. MUST be present.

**Zone:** A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the network zone from which the request originated. MUST be present. MUST be empty.

**RequestSiteId:** A **guid** (section 2.2.5.5) that specifies the **site identifier**. MUST be present.

**CorrelationId:** A **guid** (section 2.2.5.5) that uniquely identifies the request message which is sent as input to a protocol operation. MUST be present.

**RequestId:** MUST NOT be present.

**CompleteResponseTimeout:** An **int** ([XMLSCHEMA2] section 3.3.17) that specifies the amount of time, in milliseconds, to wait when executing the operation before departing from it. MUST be "0".

#### 2.2.4.4 CommandResult

**Namespace:**

http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/

The **CommandResult** complex type is an operation response message used by all protocol server operations.

The following applies to the **CommandResult** complex type, unless extended or overridden by an operation specification:

```

<xs:complexType name="CommandResult" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>

```

```

    <xs:element minOccurs="0" maxOccurs="1" name="TransientEditSessionToken"
type="xs:string"/>
    <xs:element minOccurs="1" maxOccurs="1" name="StateId" type="xs:int"/>
    <xs:element minOccurs="0" maxOccurs="1" name="SpreadsheetData" type="xs:string"/>
    <xs:element minOccurs="0" maxOccurs="1" name="HealthInformation"
type="tnsl:ServerHealthInformation"/>
    <xs:element minOccurs="1" maxOccurs="1" name="EditSessionIsDirty" type="xs:boolean"/>
    <xs:element minOccurs="1" maxOccurs="1" name="EditSessionHasMultipleCollaborationUsers"
type="xs:boolean"/>
    <xs:element minOccurs="0" maxOccurs="1" name="RequestId" type="xs:string"/>
  </xs:sequence>
</xs:complexType>

```

**TransientEditSessionToken:** MUST NOT be used.

**StateId:** A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the unique identifier for the state of a session (2). MUST be zero ("0").

**SpreadsheetData:** MUST NOT be used.

**HealthInformation:** A **ServerHealthInformation** (section [2.2.4.7](#)) that specifies the health information of the protocol server.

**EditSessionIsDirty:** A **boolean** ([\[XMLSCHEMA2\]](#) section 3.2.2) that specifies if the current session (2) has any unsaved changes. MUST be "false".

**EditSessionHasMultipleCollaborationUsers:** A **boolean** ([\[XMLSCHEMA2\]](#) section 3.2.2) that specifies if the current session (2) has more than one user. MUST be "false".

**RequestId:** MUST NOT be used.

### 2.2.4.5 KeyValuePair

**Namespace:**

<http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/>

The **KeyValuePair** complex type is used as a container for a key and its associated value.

```

<xs:complexType name="KeyValuePair" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="1" name="Key"/>
    <xs:element minOccurs="1" maxOccurs="1" name="Value" nillable="true"/>
  </xs:sequence>
</xs:complexType>

```

**Key:** Specifies a value that uniquely identifies the **KeyValuePair** within a collection. MUST be present. MUST be of type **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) or **int** ([\[XMLSCHEMA2\]](#) section 3.3.17).

**Value:** Data associated with a given **Key**, which can have any value as long as the document remains well formed, as specified in [\[XML\]](#) section 2. MUST be present. MUST be formatted in the **data culture** of the session (2).

#### 2.2.4.6 ServerHealthInformation

**Namespace:** http://schemas.datacontract.org/2004/07/Microsoft.Office.Access.Services

The **ServerHealthInformation** complex type contains information about the health of the protocol server.

```
<xs:complexType name="ServerHealthInformation" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" name="HealthScore" type="xs:float"/>
    <xs:element minOccurs="0" name="StateFlags" type="tns:ServerStateFlags"/>
  </xs:sequence>
</xs:complexType>
```

**HealthScore:** A float ([\[XMLSCHEMA2\]](#) section 3.2.4) that gives an indication of the health of the protocol server. It is a value that specifies the server performance health ranging between 0 and 100, wherein a score of 0 specifies excellent server health and a score of 100 specifies very poor server health. MUST be present.

**StateFlags:** A **ServerStateFlags** (section [2.2.5.6](#)) that specifies the state of the protocol server. MUST be present. MUST contain zero or more values from **ServerStateFlags**.

#### 2.2.4.7 ServerHealthInformation

**Namespace:**

http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/

The **ServerHealthInformation** complex type contains information about the health of the protocol server.

```
<xs:complexType name="ServerHealthInformation" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="StateFlags" type="tns1:ServerStateFlags"/>
    <xs:element minOccurs="1" maxOccurs="1" name="HealthScore" type="xs:float"/>
  </xs:sequence>
</xs:complexType>
```

**StateFlags:** A **ServerStateFlags** (section [2.2.5.7](#)) that specifies the state of the protocol server. MUST be present. MUST contain zero or more values from **ServerStateFlags**.

**HealthScore:** A float ([\[XMLSCHEMA2\]](#) section 3.2.4) that gives an indication of the health of the protocol server. It is a value that specifies the server performance health ranging between 0 and 100, wherein a score of 0 specifies excellent server health and a score of 100 specifies very poor server health. MUST be present.

#### 2.2.4.8 WorkOnBehalf

**Namespace:**

http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/

MUST NOT be used.

```

<xs:complexType name="WorkOnBehalf" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="1" name="UserName" type="xs:string"/>
    <xs:element minOccurs="0" maxOccurs="1" name="UserSid" type="xs:string"/>
    <xs:element minOccurs="0" maxOccurs="1" name="UserToken" type="xs:base64Binary"/>
    <xs:element minOccurs="1" maxOccurs="1" name="UserTokenTtl" type="xs:int"/>
  </xs:sequence>
</xs:complexType>

```

**UserName:** Not used.

**UserSid:** Not used.

**UserToken:** Not used.

**UserTokenTtl:** Not used.

#### 2.2.4.9 ArrayOfAnyType

**Namespace:**

http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/

Specifies a set of **anyType** elements.

```

<xs:complexType name="ArrayOfAnyType" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="anyType" nillable="true"/>
  </xs:sequence>
</xs:complexType>

```

**anyType:** An element of any arbitrary object type.

#### 2.2.4.10 FilterInfo

**Namespace:**

http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/

Specifies how to filter a result set. The **Expression** and **Text** elements are complementary ways of filtering the result set. If both **Expression** and **Text** are specified by the protocol client and are not empty, the result set **MUST** only contain those rows that meet the conditions specified by both the **Expression** and **Text** elements. If only one of the **Expression** and **Text** elements is specified and non-empty, the result set **MUST** be filtered to only those rows that meet the conditions specified by that element. If both the **Expression** and **Text** elements are empty or not specified, then all rows from the result set **MUST** be returned by the protocol server.

```

<xs:complexType name="FilterInfo" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="1" name="Expression" type="xs:string"/>
    <xs:element minOccurs="0" maxOccurs="1" name="Text" type="xs:string"/>
    <xs:element minOccurs="0" maxOccurs="1" name="Fields" type="tns1:FieldList"/>
    <xs:element minOccurs="0" maxOccurs="1" name="Culture" type="xs:string"/>
  </xs:sequence>

```

</xs:complexType>

**Expression:** A **CT\_Expression** ([\[MS-AXL2\]](#) section 2.2.3.1) that specifies conditions requested to be satisfied for every row of the result set.

**Text:** A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies one or more search terms requested to be present in every row of the result set in any of the fields (3) specified by the **Fields** element. This element is further specified as follows:

- Multiple search terms **MUST** be separated by one or more space characters.
- Search terms which contain a space character **MUST** be enclosed in double-quotes.
- Search terms which are immediately preceded with the name of a field (3) specified by the **Fields** element followed by a colon (':') character (with no intervening space characters) are requested to be present in that specific field (3) in every row of the result set. Fields (3) specified as such which contain spaces **MUST** be surrounded by double-quotes.

If this element is specified and non-empty, the **Fields** and **Culture** elements **MUST** be specified and non-empty.

**Fields:** A **FieldList** (section [2.2.4.12](#)) that specifies which fields (3) in the result set are used when filtering using the **Text** element.

**Culture:** A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the **culture name** of the **collation** used to interpret any numbers, dates, or times specified in the **Text** element. **MUST** be formatted as specified by [\[RFC4646\]](#).

### 2.2.4.11 DatabaseContext

**Namespace:**

<http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/>

Specifies metadata about a database.

```
<xs:complexType name="DatabaseContext" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="1" name="Server" type="tns1:ServerContext"/>
    <xs:element minOccurs="0" maxOccurs="1" name="DatabaseName" type="xs:string"/>
    <xs:element minOccurs="1" maxOccurs="1" name="PackageSource" type="tns1:PackageSource"/>
    <xs:element minOccurs="0" maxOccurs="1" name="PackageType" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
```

**Server:** A **ServerContext** (section [2.2.4.16](#)) that specifies information about the server on which the database is located. **MUST** be present.

**DatabaseName:** A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the name of the database. **MUST** be present.

**PackageSource:** A **PackageSource** (section [2.2.5.8](#)) that specifies where the package containing the database originated.

**PackageType:** A string ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the type of package containing the database. MUST be present.

#### 2.2.4.12 FieldList

**Namespace:**

http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/

Specifies a collection of fields (3).

```
<xs:complexType name="FieldList" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="Field" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
```

**Field:** A string ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the name of a field (3).

#### 2.2.4.13 NetworkCredential

**Namespace:**

http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/

Specifies credentials for password-based authentication schemes.

```
<xs:complexType name="NetworkCredential" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="1" name="UserName" type="xs:string"/>
    <xs:element minOccurs="0" maxOccurs="1" name="Password" type="xs:string"/>
    <xs:element minOccurs="0" maxOccurs="1" name="SecurePassword" type="tns1:SecureString"/>
    <xs:element minOccurs="0" maxOccurs="1" name="Domain" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
```

**UserName:** A string ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the **user name** associated with the credentials. MUST be present.

**Password:** A string ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the password for the user name associated with the credentials. MUST be present.

**SecurePassword:** A **SecureString** (section [2.2.4.15](#)) that specifies an empty element. MUST be present.

**Domain:** A string ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the **domain** or computer name that verifies the credentials. MUST be present.

#### 2.2.4.14 ProvisionedDatabaseContext

**Namespace:**

http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/

Specifies information about a database after its creation.

```

<xs:complexType name="ProvisionedDatabaseContext"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="1" name="DatabaseContext"
type="tns1:DatabaseContext"/>
    <xs:element minOccurs="0" maxOccurs="1" name="DboCredential"
type="tns1:NetworkCredential"/>
    <xs:element minOccurs="0" maxOccurs="1" name="AccessAccount" type="xs:string"/>
    <xs:element minOccurs="0" maxOccurs="1" name="Password" type="xs:string"/>
  </xs:sequence>
</xs:complexType>

```

**DatabaseContext:** A **DatabaseContext** (section [2.2.4.11](#)) that specifies information about the database. **MUST** be present.

**DboCredential:** A **NetworkCredential** (section [2.2.4.13](#)) that specifies the credentials necessary to access the owner account on the database.

**AccessAccount:** A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the user name under which the process hosting the protocol server is being run. **MUST** be present.

**Password:** A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that overrides the password of the user name specified by **DboCredential**.

#### 2.2.4.15 SecureString

**Namespace:**

<http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/>

Specifies an empty element.

```

<xs:complexType name="SecureString" xmlns:xs="http://www.w3.org/2001/XMLSchema"/>

```

#### 2.2.4.16 ServerContext

**Namespace:**

<http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/>

Specifies information about a server on which databases are located.

```

<xs:complexType name="ServerContext" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="ServerReferenceId" type="q1:guid"/>
    <xs:element minOccurs="0" maxOccurs="1" name="MasterCredential"
type="tns1:NetworkCredential"/>
  </xs:sequence>
</xs:complexType>

```

**ServerReferenceId:** A **guid** (section [2.2.5.5](#)) that specifies a value that is used as a handle to this particular database server.



**MasterCredential:** A **NetworkCredential** (section [2.2.4.13](#)) that specifies credentials to be used when executing commands on this particular database server.

## 2.2.5 Simple Types

The following table summarizes the set of common XML schema simple type definitions defined by this specification. XML schema simple type definitions that are specific to a particular operation are described with the operation.

| Simple type                 | Description   |
|-----------------------------|---|
| AccessServerMessageButtons  | <b>AccessServerMessageButtons</b> specifies the control buttons associated with an alert that the protocol server returns to the protocol client. |
| AccessServerMessageId       | The <b>AccessServerMessageId</b> type is an enumeration of alerts returned from the protocol server.  |
| AccessServerMessageSeverity | <b>AccessServerMessageSeverity</b> specifies the severity of the alert that the protocol server returns to the protocol client.                   |
| AccessServerMessageType     | <b>AccessServerMessageType</b> specifies the type of alert that the protocol server returns to the protocol client.                               |
| guid                        | The <b>guid</b> type specifies a <b>GUID</b> value, as specified in <a href="#">[RFC4122]</a> .   |
| PackageSource               | Specifies where a database package originated.  |
| ServerStateFlags            | <b>ServerStateFlags</b> specifies the state of the protocol server.   |
| ServerStateFlags            | <b>ServerStateFlags</b> specifies the state of the protocol server.   |

### 2.2.5.1 AccessServerMessageButtons

**Namespace:** <http://schemas.datacontract.org/2004/07/Microsoft.Office.Access.Services>

**AccessServerMessageButtons** specifies the control buttons associated with an alert that the protocol server returns to the protocol client.

```
<xs:simpleType name="AccessServerMessageButtons" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:list>
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:enumeration value="None"/>
        <xs:enumeration value="OK"/>
        <xs:enumeration value="Cancel"/>
        <xs:enumeration value="Yes"/>
        <xs:enumeration value="No"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:list>
</xs:simpleType>
```

The following table specifies the allowable values for **AccessServerMessageButtons**.

| Value  | Meaning               |
|--------|-----------------------|
| None   | MUST NOT be used.     |
| OK     | An OK control button. |
| Cancel | MUST NOT be used.     |
| Yes    | MUST NOT be used.     |
| No     | MUST NOT be used.     |

### 2.2.5.2 AccessServerMessageId

**Namespace:** http://schemas.datacontract.org/2004/07/Microsoft.Office.Access.Services

The **AccessServerMessageId** type is an enumeration of alerts returned from the protocol server.

```
<xs:simpleType name="AccessServerMessageId" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Blank"/>
    <xs:enumeration value="InternalError"/>
    <xs:enumeration value="ManagementUIInternalError"/>
    <xs:enumeration value="InvalidValueForField"/>
    <xs:enumeration value="GetRecordsPermissionsFailure"/>
    <xs:enumeration value="WriteRecordsPermissionsFailure"/>
    <xs:enumeration value="NotMemberOfRole"/>
    <xs:enumeration value="ServerReadOnly"/>
    <xs:enumeration value="MaxSessionsPerUserExceeded"/>
    <xs:enumeration value="RetryError"/>
    <xs:enumeration value="MaxRequestDurationExceeded"/>
    <xs:enumeration value="ProductExpired"/>
    <xs:enumeration value="NewWorkbookSessionTimeout"/>
    <xs:enumeration value="DataException_CacheOperationInvalid"/>
    <xs:enumeration value="DataException_InvalidPageNumber"/>
    <xs:enumeration value="DataException_ConflictsEncounteredWhileUpdatingData"/>
    <xs:enumeration value="DataException_DeleteConflict"/>
    <xs:enumeration value="DataException_QueryParametersNotSupplied"/>
    <xs:enumeration value="DataException_GenericError"/>
    <xs:enumeration value="ExternalData_InvalidSource"/>
    <xs:enumeration value="ExternalData_ComponentMissing"/>
    <xs:enumeration value="DataConnectivity_FunctionalityDisabled"/>
    <xs:enumeration value="InvalidArgument"/>
    <xs:enumeration value="NullArgument"/>
    <xs:enumeration value="WebService_ObjectNotFound"/>
    <xs:enumeration value="WebService_InvalidId"/>
    <xs:enumeration value="WebService_ObjectSaveConflict"/>
    <xs:enumeration value="WebService_ObjectModifiedExternally"/>
    <xs:enumeration value="WebService_DeleteApplicationWithSubwebs"/>
    <xs:enumeration value="WebService_SiteDoesNotExist"/>
    <xs:enumeration value="WebService_InvalidApplicationEndPoint"/>
    <xs:enumeration value="WebService_GetServerInformation_SiteDoesNotExist"/>
    <xs:enumeration value="WebService_CreateApplication_SiteDoesNotExist"/>
    <xs:enumeration value="WebService_MustBeAuthorToDesign"/>
    <xs:enumeration value="WebService_SetApplicationProperties_SetThemePermissionsFailure"/>
    <xs:enumeration value="ObjectAlreadyExists"/>
    <xs:enumeration value="TableException_CsdlDefinitionNotSupported"/>
    <xs:enumeration value="TableException_DuplicateColumnName"/>
  </xs:restriction>
</xs:simpleType>
```

```
<xs:enumeration value="TableException_InvalidColumn"/>
<xs:enumeration value="TableException_InvalidFieldInExpression"/>
<xs:enumeration value="TableException_InvalidObjectInExpression"/>
<xs:enumeration value="QueryException_AmbiguousSourceNamesProvided"/>
<xs:enumeration value="QueryException_InvalidSourceNamesProvided"/>
<xs:enumeration value="QueryException_AmbiguousAliasProvided"/>
<xs:enumeration value="QueryException_InvalidObjectName"/>
<xs:enumeration value="QueryException_AmbiguousJoins"/>
<xs:enumeration value="QueryException_GenericAXLValidation"/>
<xs:enumeration value="QueryException_OutputNotInGroupsOrPartOfAggregate"/>
<xs:enumeration value="QueryException_ParameterTypeMismatch"/>
<xs:enumeration value="QueryException_OrderNotInOutputs"/>
<xs:enumeration value="OrderingException_InvalidSpecification"/>
<xs:enumeration value="OrderingException_InvalidColumnName"/>
<xs:enumeration value="MacroCompilationException_InvalidAxl"/>
<xs:enumeration value="MacroCompilationException_InvalidAction"/>
<xs:enumeration value="MacroCompilationException_InvalidEventName"/>
<xs:enumeration value="MacroCompilationException_RequiredArgumentMissing"/>
<xs:enumeration value="MacroCompilationException_ArgumentValueNotSpecified"/>
<xs:enumeration value="MacroCompilationException_InvalidActionArgument"/>
<xs:enumeration value="MacroCompilationException_InvalidParameter"/>
<xs:enumeration value="MacroCompilationException_MacroCallStackDepthExceeded"/>
<xs:enumeration value="MacroCompilationException_VariableNameCollision"/>
<xs:enumeration value="MacroCompilationException_EmptyConditionalBlock"/>
<xs:enumeration value="MacroCompilationException_EmptyLookupRecordBlock"/>
<xs:enumeration value="MacroCompilationException_UpdateOnDeletedRecord"/>
<xs:enumeration value="MacroCompilationException_UpdateRecordInNDM"/>
<xs:enumeration value="MacroCompilationException_InvalidAlias"/>
<xs:enumeration value="MacroCompilationException_InvalidIdentifier"/>
<xs:enumeration value="MacroCompilationException_InvalidVariableName"/>
<xs:enumeration value="UnsupportedDatabaseCollation"/>
<xs:enumeration value="NoDatabaseServersAvailableForCreate"/>
<xs:enumeration value="NoSQLAuthDatabaseServersAvailableForCreate"/>
<xs:enumeration value="SettingValidationFailed"/>
<xs:enumeration value="SettingApplicationNameNotFound"/>
<xs:enumeration value="SettingApplicationIdNotFound"/>
<xs:enumeration value="SettingApplicationProxyNameNotFound"/>
<xs:enumeration value="ProvisioningGenericFailure"/>
<xs:enumeration value="ProvisioningApplicationAlreadyExists"/>
<xs:enumeration value="ProvisioningSecureStoreIsRequiredAndMissing"/>
<xs:enumeration value="ProvisioningAccessServicesNotSupportedBySite"/>
<xs:enumeration value="FormException_GenericAXLValidation"/>
<xs:enumeration value="UnrecognizedVersion"/>
<xs:enumeration value="AnotherUpgradeInProgress"/>
<xs:enumeration value="ClientVersionNotCompatible"/>
<xs:enumeration value="ApplicationVersionNotCompatible"/>
<xs:enumeration value="TemplateNotCompatible"/>
<xs:enumeration value="TemplateSizeExceeded"/>
<xs:enumeration value="TemplateImageSizeExceeded"/>
<xs:enumeration value="TemplateImageTypeUnsupported"/>
<xs:enumeration value="AccessSqlException_GenericError"/>
<xs:enumeration value="AccessSqlException_CalculationCannotbeStored"/>
<xs:enumeration value="AccessSqlException_ObjectNotFound"/>
<xs:enumeration value="AccessSqlException_PermissionDenied"/>
<xs:enumeration value="AccessSqlException_DuplicateConstraintValue"/>
<xs:enumeration value="AccessSqlException_NoQueryParameters"/>
<xs:enumeration value="AccessSqlException_FieldNoValue"/>
<xs:enumeration value="AccessSqlException_FieldNoValueDesignTime"/>
<xs:enumeration value="AccessSqlException_InvalidFieldName"/>
```

```
<xs:enumeration value="AccessSqlException_InvalidObjectName"/>
<xs:enumeration value="AccessSqlException_ObjectAlreadyExists"/>
<xs:enumeration value="AccessSqlException_MissingExpressionInAggregateFunction"/>
<xs:enumeration value="AccessSqlException_DataTypeConversionMismatch"/>
<xs:enumeration value="AccessSqlException_InvalidLengthParameter"/>
<xs:enumeration value="AccessSqlException_ErrorMessage"/>
<xs:enumeration value="AccessSqlException_SqlError102"/>
<xs:enumeration value="AccessSqlException_SqlError107"/>
<xs:enumeration value="AccessSqlException_SqlError128"/>
<xs:enumeration value="AccessSqlException_SqlError130"/>
<xs:enumeration value="AccessSqlException_SqlError192"/>
<xs:enumeration value="AccessSqlException_SqlError201"/>
<xs:enumeration value="AccessSqlException_SqlError206"/>
<xs:enumeration value="AccessSqlException_SqlError209"/>
<xs:enumeration value="AccessSqlException_SqlError214"/>
<xs:enumeration value="AccessSqlException_SqlError217"/>
<xs:enumeration value="AccessSqlException_SqlError229"/>
<xs:enumeration value="AccessSqlException_SqlError241"/>
<xs:enumeration value="AccessSqlException_SqlError245"/>
<xs:enumeration value="AccessSqlException_SqlError256"/>
<xs:enumeration value="AccessSqlException_SqlError257"/>
<xs:enumeration value="AccessSqlException_SqlError260"/>
<xs:enumeration value="AccessSqlException_SqlError289"/>
<xs:enumeration value="AccessSqlException_SqlError402"/>
<xs:enumeration value="AccessSqlException_SqlError403"/>
<xs:enumeration value="AccessSqlException_SqlError421"/>
<xs:enumeration value="AccessSqlException_SqlError535"/>
<xs:enumeration value="AccessSqlException_SqlError542"/>
<xs:enumeration value="AccessSqlException_SqlError547_CheckConstraint_Runtime"/>
<xs:enumeration value="AccessSqlException_SqlError547_CheckConstraint_Design_Table"/>
<xs:enumeration value="AccessSqlException_SqlError547_CheckConstraint_Design_Column"/>
<xs:enumeration value="AccessSqlException_SqlError547_ForeignKey_RuntimeInsertUpdate"/>
<xs:enumeration value="AccessSqlException_SqlError547_ForeignKey_RuntimeDelete"/>
<xs:enumeration value="AccessSqlException_SqlError547_ForeignKey_Design"/>
<xs:enumeration value="AccessSqlException_SqlError1004"/>
<xs:enumeration value="AccessSqlException_SqlError1715"/>
<xs:enumeration value="AccessSqlException_SqlError1759"/>
<xs:enumeration value="AccessSqlException_SqlError1765"/>
<xs:enumeration value="AccessSqlException_SqlError1778"/>
<xs:enumeration value="AccessSqlException_SqlError1785"/>
<xs:enumeration value="AccessSqlException_SqlError1919"/>
<xs:enumeration value="AccessSqlException_SqlError2364"/>
<xs:enumeration value="AccessSqlException_SqlError2365"/>
<xs:enumeration value="AccessSqlException_SqlError2812"/>
<xs:enumeration value="AccessSqlException_SqlError3250"/>
<xs:enumeration value="AccessSqlException_SqlError3623"/>
<xs:enumeration value="AccessSqlException_SqlError3726"/>
<xs:enumeration value="AccessSqlException_SqlError3906"/>
<xs:enumeration value="AccessSqlException_SqlError4104"/>
<xs:enumeration value="AccessSqlException_SqlError4121"/>
<xs:enumeration value="AccessSqlException_SqlError4145"/>
<xs:enumeration value="AccessSqlException_SqlError4405"/>
<xs:enumeration value="AccessSqlException_SqlError4506"/>
<xs:enumeration value="AccessSqlException_SqlError4511"/>
<xs:enumeration value="AccessSqlException_SqlError4901"/>
<xs:enumeration value="AccessSqlException_SqlError4922"/>
<xs:enumeration value="AccessSqlException_SqlError4924"/>
<xs:enumeration value="AccessSqlException_SqlError7704"/>
<xs:enumeration value="AccessSqlException_SqlError8114"/>
```

```

<xs:enumeration value="AccessSqlException_SqlError8115"/>
<xs:enumeration value="AccessSqlException_SqlError8117"/>
<xs:enumeration value="AccessSqlException_SqlError8134"/>
<xs:enumeration value="AccessSqlException_SqlError8152"/>
<xs:enumeration value="AccessSqlException_SqlError9810"/>
<xs:enumeration value="AccessSqlException_SqlError17142"/>
<xs:enumeration value="AccessSqlException_CustomError50001"/>
<xs:enumeration value="AccessSqlException_CustomError50003"/>
<xs:enumeration value="CannotSetProperty"/>
<xs:enumeration value="CannotGetProperty"/>
</xs:restriction>
</xs:simpleType>

```

The following table specifies the allowable values for **AccessServerMessageId**.

| Value   | Meaning  |
|---|--|
| Blank   | MUST NOT be used   |
| InternalError                                       | See <b>Common Fault Identifiers</b> (section <a href="#">2.2.9.1</a> )     |
| ManagementUIInternalError                           | MUST NOT be used.  |
| InvalidValueForField                                | MUST NOT be used.  |
| GetRecordsPermissionsFailure                        | The user does not have permissions to view the requested <b>record</b> .   |
| WriteRecordsPermissionsFailure                      | The user does not have permissions to create or edit the requested record. |
| NotMemberOfRole                                     | See <b>Common Fault Identifiers</b> (section <a href="#">2.2.9.1</a> )     |
| ServerReadOnly                                      | The database application is read-only.                                     |
| MaxSessionsPerUserExceeded                          | See <b>Common Fault Identifiers</b> (section <a href="#">2.2.9.1</a> )     |
| RetryError  | See <b>Common Fault Identifiers</b> (section <a href="#">2.2.9.1</a> )     |
| MaxRequestDurationExceeded                          | See <b>Common Fault Identifiers</b> (section <a href="#">2.2.9.1</a> )     |
| ProductExpired                                      | See <b>Common Fault Identifiers</b> (section <a href="#">2.2.9.1</a> )     |
| NewWorkbookSessionTimeout                           | See <b>Common Fault Identifiers</b> (section <a href="#">2.2.9.1</a> )     |
| DataException_CacheOperationInvalid                 | MUST NOT be used.  |
| DataException_InvalidPageNumber                     | MUST NOT be used.  |
| DataException_ConflictsEncounteredWhileUpdatingData | The protocol server could not  |

| Value  | Meaning  |
|--|--|
|  | update data in record, because another user had already updated the values in the record. Protocol client will need to refresh data so that conflicting updates do not happen. |
| DataException_DeleteConflict                     | The protocol server could not save changes to a record, because it no longer exists.   |
| DataException_QueryParametersNotSupplied         | Parameters required for the <b>Source</b> (section <a href="#">3.2.1.1</a> ) are not present. See section <a href="#">3.2.4.10.2.1</a> .                                       |
| DataException_GenericError                       | See <b>Runtime Fault Identifiers</b> (section <a href="#">2.2.9.2</a> )  |
| ExternalData_InvalidSource                       | See <b>Runtime Fault Identifiers</b> (section <a href="#">2.2.9.2</a> )  |
| ExternalData_ComponentMissing                    | See <b>Runtime Fault Identifiers</b> (section <a href="#">2.2.9.2</a> )  |
| DataConnectivity_FunctionalityDisabled           | The external data connectivity functionality has been disabled by the protocol server administrator.   |
| InvalidArgument                                  | See <b>Common Fault Identifiers</b> (section <a href="#">2.2.9.1</a> )   |
| NullArgument                                     | MUST NOT be used.  |
| WebService_ObjectNotFound                        | See <b>Design Time Fault Identifiers</b> (section <a href="#">2.2.9.4</a> )  |
| WebService_InvalidId                             | See <b>Design Time Fault Identifiers</b> (section <a href="#">2.2.9.4</a> )  |
| WebService_ObjectSaveConflict                    | See <b>Design Time Fault Identifiers</b> (section <a href="#">2.2.9.4</a> )  |
| WebService_ObjectModifiedExternally              | See <b>Design Time Fault Identifiers</b> (section <a href="#">2.2.9.4</a> )  |
| WebService_DeleteApplicationWithSubwebs          | See <b>Design Time Fault Identifiers</b> (section <a href="#">2.2.9.4</a> )  |
| WebService_SiteDoesNotExist                      | See <b>Design Time Fault Identifiers</b> (section <a href="#">2.2.9.4</a> )  |
| WebService_InvalidApplicationEndPoint            | See <b>Design Time Fault Identifiers</b> (section <a href="#">2.2.9.4</a> )  |
| WebService_GetServerInformation_SiteDoesNotExist | See <b>Design Time Fault Identifiers</b> (section <a href="#">2.2.9.4</a> )  |
| WebService_CreateApplication_SiteDoesNotExist    | See <b>Design Time Fault Identifiers</b> (section <a href="#">2.2.9.4</a> )  |

| <b>Value</b>   | <b>Meaning</b>  |
|--|---|
| WebService_MustBeAuthorToDesign                                | MUST NOT be used.   |
| WebService_SetApplicationProperties_SetThemePermissionsFailure | See <b>Design Time Fault Identifiers</b> (section <a href="#">2.2.9.4</a> ) |
| ObjectAlreadyExists  | See <b>Design Time Fault Identifiers</b> (section <a href="#">2.2.9.4</a> ) |
| TableException_CsdlDefinitionNotSupported                      | See <b>Design Time Fault Identifiers</b> (section <a href="#">2.2.9.4</a> ) |
| TableException_DuplicateColumnName                             | See <b>Design Time Fault Identifiers</b> (section <a href="#">2.2.9.4</a> ) |
| TableException_InvalidColumn                                   | See <b>Design Time Fault Identifiers</b> (section <a href="#">2.2.9.4</a> ) |
| TableException_InvalidFieldInExpression                        | See <b>Design Time Fault Identifiers</b> (section <a href="#">2.2.9.4</a> ) |
| TableException_InvalidObjectInExpression                       | See <b>Design Time Fault Identifiers</b> (section <a href="#">2.2.9.4</a> ) |
| QueryException_AmbiguousSourceNamesProvided                    | See <b>Design Time Fault Identifiers</b> (section <a href="#">2.2.9.4</a> ) |
| QueryException_InvalidSourceNamesProvided                      | See <b>Design Time Fault Identifiers</b> (section <a href="#">2.2.9.4</a> ) |
| QueryException_AmbiguousAliasProvided                          | See <b>Design Time Fault Identifiers</b> (section <a href="#">2.2.9.4</a> ) |
| QueryException_InvalidObjectName                               | MUST NOT be used.   |
| QueryException_AmbiguousJoins                                  | See <b>Design Time Fault Identifiers</b> (section <a href="#">2.2.9.4</a> ) |
| QueryException_GenericAXLValidation                            | See <b>Design Time Fault Identifiers</b> (section <a href="#">2.2.9.4</a> ) |
| QueryException_OutputNotInGroupsOrPartOfAggregate              | See <b>Design Time Fault Identifiers</b> (section <a href="#">2.2.9.4</a> ) |
| QueryException_ParameterTypeMismatch                           | See <b>Design Time Fault Identifiers</b> (section <a href="#">2.2.9.4</a> ) |
| QueryException_OrderNotInOutputs                               | See <b>Design Time Fault Identifiers</b> (section <a href="#">2.2.9.4</a> ) |
| OrderingException_InvalidSpecification                         | See <b>Design Time Fault Identifiers</b> (section <a href="#">2.2.9.4</a> ) |
| OrderingException_InvalidColumnName                            | See <b>Design Time Fault Identifiers</b> (section <a href="#">2.2.9.4</a> ) |
| MacroCompilationException_InvalidAxl                           | See <b>Design Time Fault Identifiers</b> (section <a href="#">2.2.9.4</a> ) |
| MacroCompilationException_InvalidAction                        | See <b>Design Time Fault</b>  |

| Value   | Meaning   |
|---|---|
|   | <b>Identifiers</b> (section <a href="#">2.2.9.4</a> )                       |
| MacroCompilationException_InvalidEventName            | See <b>Design Time Fault Identifiers</b> (section <a href="#">2.2.9.4</a> ) |
| MacroCompilationException_RequiredArgumentMissing     | See <b>Design Time Fault Identifiers</b> (section <a href="#">2.2.9.4</a> ) |
| MacroCompilationException_ArgumentValueNotSpecified   | See <b>Design Time Fault Identifiers</b> (section <a href="#">2.2.9.4</a> ) |
| MacroCompilationException_InvalidActionArgument       | See <b>Design Time Fault Identifiers</b> (section <a href="#">2.2.9.4</a> ) |
| MacroCompilationException_InvalidParameter            | See <b>Design Time Fault Identifiers</b> (section <a href="#">2.2.9.4</a> ) |
| MacroCompilationException_MacroCallStackDepthExceeded | See <b>Design Time Fault Identifiers</b> (section <a href="#">2.2.9.4</a> ) |
| MacroCompilationException_VariableNameCollision       | See <b>Design Time Fault Identifiers</b> (section <a href="#">2.2.9.4</a> ) |
| MacroCompilationException_EmptyConditionalBlock       | See <b>Design Time Fault Identifiers</b> (section <a href="#">2.2.9.4</a> ) |
| MacroCompilationException_EmptyLookupRecordBlock      | See <b>Design Time Fault Identifiers</b> (section <a href="#">2.2.9.4</a> ) |
| MacroCompilationException_UpdateOnDeletedRecord       | See <b>Design Time Fault Identifiers</b> (section <a href="#">2.2.9.4</a> ) |
| MacroCompilationException_UpdateRecordInNDM           | See <b>Design Time Fault Identifiers</b> (section <a href="#">2.2.9.4</a> ) |
| MacroCompilationException_InvalidAlias                | See <b>Design Time Fault Identifiers</b> (section <a href="#">2.2.9.4</a> ) |
| MacroCompilationException_InvalidIdentifier           | See <b>Design Time Fault Identifiers</b> (section <a href="#">2.2.9.4</a> ) |
| MacroCompilationException_InvalidVariableName         | See <b>Design Time Fault Identifiers</b> (section <a href="#">2.2.9.4</a> ) |
| UnsupportedDatabaseCollation                          | See <b>Design Time Fault Identifiers</b> (section <a href="#">2.2.9.4</a> ) |
| NoDatabaseServersAvailableForCreate                   | See <b>Design Time Fault Identifiers</b> (section <a href="#">2.2.9.4</a> ) |
| NoSQLAuthDatabaseServersAvailableForCreate            | See <b>Design Time Fault Identifiers</b> (section <a href="#">2.2.9.4</a> ) |
| SettingValidationFailed                               | MUST NOT be used.   |
| SettingApplicationNameNotFound                        | MUST NOT be used.   |
| SettingApplicationIdNotFound                          | MUST NOT be used.   |



| Value  | Meaning   |
|--|---|
| SettingApplicationProxyNameNotFound          | MUST NOT be used.   |
| ProvisioningGenericFailure                   | MUST NOT be used.   |
| ProvisioningApplicationAlreadyExists         | See <b>Design Time Fault Identifiers</b> (section <a href="#">2.2.9.4</a> ) |
| ProvisioningSecureStoreIsRequiredAndMissing  | MUST NOT be used.   |
| ProvisioningAccessServicesNotSupportedBySite | See <b>Design Time Fault Identifiers</b> (section <a href="#">2.2.9.4</a> ) |
| FormException_GenericAXLValidation           | See <b>Design Time Fault Identifiers</b> (section <a href="#">2.2.9.4</a> ) |
| UnrecognizedVersion                          | See <b>Design Time Fault Identifiers</b> (section <a href="#">2.2.9.4</a> ) |
| AnotherUpgradeInProgress                     | MUST NOT be used.   |
| ClientVersionNotCompatible                   | MUST NOT be used.   |
| ApplicationVersionNotCompatible              | MUST NOT be used.   |
| TemplateNotCompatible                        | MUST NOT be used.   |
| TemplateSizeExceeded                         | MUST NOT be used.   |
| TemplateImageSizeExceeded                    | MUST NOT be used.   |
| TemplateImageTypeUnsupported                 | MUST NOT be used.   |
| AccessSqlException_GenericError              | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> )         |
| AccessSqlException_CalculationCannotbeStored | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> )         |
| AccessSqlException_ObjectNotFound            | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> )         |
| AccessSqlException_PermissionDenied          | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> )         |
| AccessSqlException_DuplicateConstraintValue  | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> )         |
| AccessSqlException_NoQueryParameters         | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> )         |
| AccessSqlException_FieldNoValue              | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> )         |
| AccessSqlException_FieldNoValueDesignTime    | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> )         |
| AccessSqlException_InvalidFieldName          | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> )         |

| <b>Value</b>  | <b>Meaning</b>  |
|---|---|
| AccessSqlException_InvalidObjectName                    | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> ) |
| AccessSqlException_ObjectAlreadyExists                  | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> ) |
| AccessSqlException_MissingExpressionInAggregateFunction | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> ) |
| AccessSqlException_DataTypeConversionMismatch           | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> ) |
| AccessSqlException_InvalidLengthParameter               | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> ) |
| AccessSqlException_ErrorMessage                         | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> ) |
| AccessSqlException_SqlError102                          | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> ) |
| AccessSqlException_SqlError107                          | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> ) |
| AccessSqlException_SqlError128                          | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> ) |
| AccessSqlException_SqlError130                          | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> ) |
| AccessSqlException_SqlError192                          | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> ) |
| AccessSqlException_SqlError201                          | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> ) |
| AccessSqlException_SqlError206                          | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> ) |
| AccessSqlException_SqlError209                          | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> ) |
| AccessSqlException_SqlError214                          | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> ) |
| AccessSqlException_SqlError217                          | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> ) |
| AccessSqlException_SqlError229                          | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> ) |
| AccessSqlException_SqlError241                          | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> ) |
| AccessSqlException_SqlError245                          | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> ) |
| AccessSqlException_SqlError256                          | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> ) |

| <b>Value</b>  | <b>Meaning</b>  |
|---|---|
| AccessSqlException_SqlError257                                | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> ) |
| AccessSqlException_SqlError260                                | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> ) |
| AccessSqlException_SqlError289                                | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> ) |
| AccessSqlException_SqlError402                                | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> ) |
| AccessSqlException_SqlError403                                | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> ) |
| AccessSqlException_SqlError421                                | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> ) |
| AccessSqlException_SqlError535                                | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> ) |
| AccessSqlException_SqlError542                                | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> ) |
| AccessSqlException_SqlError547_CheckConstraint_Runtime        | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> ) |
| AccessSqlException_SqlError547_CheckConstraint_Design_Table   | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> ) |
| AccessSqlException_SqlError547_CheckConstraint_Design_Column  | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> ) |
| AccessSqlException_SqlError547_ForeignKey_RuntimeInsertUpdate | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> ) |
| AccessSqlException_SqlError547_ForeignKey_RuntimeDelete       | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> ) |
| AccessSqlException_SqlError547_ForeignKey_Design              | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> ) |
| AccessSqlException_SqlError1004                               | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> ) |
| AccessSqlException_SqlError1715                               | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> ) |
| AccessSqlException_SqlError1759                               | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> ) |
| AccessSqlException_SqlError1765                               | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> ) |
| AccessSqlException_SqlError1778                               | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> ) |
| AccessSqlException_SqlError1785                               | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> ) |

| <b>Value</b>                    | <b>Meaning</b>  |
|---------------------------------|---|
| AccessSqlException_SqlError1919 | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> ) |
| AccessSqlException_SqlError2364 | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> ) |
| AccessSqlException_SqlError2365 | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> ) |
| AccessSqlException_SqlError2812 | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> ) |
| AccessSqlException_SqlError3250 | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> ) |
| AccessSqlException_SqlError3623 | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> ) |
| AccessSqlException_SqlError3726 | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> ) |
| AccessSqlException_SqlError3906 | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> ) |
| AccessSqlException_SqlError4104 | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> ) |
| AccessSqlException_SqlError4121 | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> ) |
| AccessSqlException_SqlError4145 | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> ) |
| AccessSqlException_SqlError4405 | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> ) |
| AccessSqlException_SqlError4506 | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> ) |
| AccessSqlException_SqlError4511 | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> ) |
| AccessSqlException_SqlError4901 | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> ) |
| AccessSqlException_SqlError4922 | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> ) |
| AccessSqlException_SqlError4924 | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> ) |
| AccessSqlException_SqlError7704 | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> ) |
| AccessSqlException_SqlError8114 | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> ) |
| AccessSqlException_SqlError8115 | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> ) |

| Value                               | Meaning   |
|-------------------------------------|---|
| AccessSqlException_SqlError8117     | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> ) |
| AccessSqlException_SqlError8134     | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> ) |
| AccessSqlException_SqlError8152     | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> ) |
| AccessSqlException_SqlError9810     | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> ) |
| AccessSqlException_SqlError17142    | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> ) |
| AccessSqlException_CustomError50001 | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> ) |
| AccessSqlException_CustomError50003 | See <b>Sql Fault Identifiers</b> (section <a href="#">2.2.9.3</a> ) |
| CannotSetProperty                   | MUST NOT be used.   |
| CannotGetProperty                   | MUST NOT be used.   |

### 2.2.5.3 AccessServerMessageSeverity

**Namespace:** <http://schemas.datacontract.org/2004/07/Microsoft.Office.Access.Services>

**AccessServerMessageSeverity** specifies the severity of the alert that the protocol server returns to the protocol client.

```
<xs:simpleType name="AccessServerMessageSeverity"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Error"/>
    <xs:enumeration value="Warning"/>
    <xs:enumeration value="Information"/>
    <xs:enumeration value="Progress"/>
    <xs:enumeration value="GettingStarted"/>
  </xs:restriction>
</xs:simpleType>
```

The following table specifies the allowable values for **AccessServerMessageSeverity**.

| Value          | Meaning   |
|----------------|---|
| Error          | The alert indicates that an error occurred.                         |
| Warning        | MUST NOT be used.   |
| Information    | The alert indicates that information is being sent from the server. |
| Progress       | MUST NOT be used.   |
| GettingStarted | MUST NOT be used.   |

## 2.2.5.4 AccessServerMessageType

**Namespace:** http://schemas.datacontract.org/2004/07/Microsoft.Office.Access.Services

**AccessServerMessageType** specifies the type of alert that the protocol server returns to the protocol client.

```
<xs:simpleType name="AccessServerMessageType" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Alert"/>
    <xs:enumeration value="Status"/>
    <xs:enumeration value="Confirmation"/>
  </xs:restriction>
</xs:simpleType>
```

The following table specifies the allowable values for **AccessServerMessageType**.

| Value        | Meaning                      |
|--------------|------------------------------|
| Alert        | The alert is of type alert   |
| Status       | The alert is of type status. |
| Confirmation | MUST NOT be used.            |

## 2.2.5.5 guid

**Namespace:** http://microsoft.com/wsdl/types/

The **guid** type specifies a GUID value, as specified in [\[RFC4122\]](#).

```
<xs:simpleType name="guid" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:restriction base="xs:string">
    <xs:pattern value="[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}"/>
  </xs:restriction>
</xs:simpleType>
```

## 2.2.5.6 ServerStateFlags

**Namespace:** http://schemas.datacontract.org/2004/07/Microsoft.Office.Access.Services

**ServerStateFlags** specifies the state of the protocol server.

```
<xs:simpleType name="ServerStateFlags" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:list>
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:enumeration value="None"/>
        <xs:enumeration value="Probation"/>
        <xs:enumeration value="ShuttingDown"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:list>
```

```
</xs:simpleType>
```

The following table specifies the allowable values for **ServerStateFlags**.

| Value        | Meaning                               |
|--------------|---------------------------------------|
| None         | MUST NOT be used.                     |
| Probation    | MUST NOT be used.                     |
| ShuttingDown | The protocol server is shutting down. |

### 2.2.5.7 ServerStateFlags

**Namespace:**

http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/

**ServerStateFlags** specifies the state of the protocol server.

```
<xs:simpleType name="ServerStateFlags" xmlns:xs="http://www.w3.org/2001/XMLSchema">  
  <xs:list>  
    <xs:simpleType>  
      <xs:restriction base="xs:string">  
        <xs:enumeration value="ShuttingDown"/>  
      </xs:restriction>  
    </xs:simpleType>  
  </xs:list>  
</xs:simpleType>
```

The following table specifies the allowable values for **ServerStateFlags**.

| Value        | Meaning                               |
|--------------|---------------------------------------|
| ShuttingDown | The protocol server is shutting down. |

### 2.2.5.8 PackageSource

**Namespace:**

http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/

Specifies where a database package originated.

```
<xs:simpleType name="PackageSource" xmlns:xs="http://www.w3.org/2001/XMLSchema">  
  <xs:restriction base="xs:string">  
    <xs:enumeration value="InvalidSource"/>  
    <xs:enumeration value="StoreFront"/>  
    <xs:enumeration value="CorporateCatalog"/>  
    <xs:enumeration value="DeveloperSite"/>  
    <xs:enumeration value="ObjectModel"/>  
    <xs:enumeration value="RemoteObjectModel"/>  
  </xs:restriction>
```

</xs:simpleType>

The following table specifies the allowable values for **PackageSource**.

| Value             | Meaning   |
|-------------------|---|
| InvalidSource     | Specifies an internal error. SHOULD NOT be used.  |
| StoreFront        | Specifies that the package came from the Marketplace.   |
| CorporateCatalog  | Specifies that the package came from the corporate gallery.   |
| DeveloperSite     | Specifies that the package came from the Developer Site.  |
| ObjectModel       | Specifies that the package was loaded via the object model.   |
| RemoteObjectModel | Specifies that the package was uploaded via the client-side object model ( <a href="#">[MS-CSOM]</a> ). |

### 2.2.6 Attributes

This specification does not define any common XML schema attribute definitions.

### 2.2.7 Groups

This specification does not define any common XML schema attribute definitions.

### 2.2.8 Attribute Groups

This specification does not define any common XML schema attribute group definitions.

### 2.2.9 Faults

In the event of an application error, the protocol server MUST return either a SOAP fault ([\[SOAP1.2/1\]](#) section 5.4), or a **ServiceError** ([\[MS-AADT\]](#) section 2.2.4.7) as a response to the operation.

For SOAP faults:

- The protocol client MUST ignore all elements of the SOAP fault except the **Detail** element ([\[SOAP1.2/1\]](#) section 5.4.5).
- The SOAP fault **Detail** element ([\[SOAP1.2/1\]](#) section 5.4.5) MUST contain the protocol server alert specified by section [2.2.4.1](#).

When returning a SOAP fault ([\[SOAP1.2/1\]](#) section 5.4) or a **ServiceError** ([\[MS-AADT\]](#) section 2.2.4.7) as a response, the protocol server MUST return a **fault identifier** (section [2.2.5.2](#)) in the response either as the **Value** element ([\[SOAP1.2/1\]](#) section 5.4.1.3) inside a **Subcode** element ([\[SOAP1.2/1\]](#) section 5.4.1.2) of the SOAP fault ([\[SOAP1.2/1\]](#) section 5.4), or as the **Code** attribute in a **ServiceError** ([\[MS-AADT\]](#) section 2.2.4.7).

The different **fault identifiers** (section [2.2.5.2](#)) returned by the protocol server are grouped as Common Fault Identifiers, Runtime Fault Identifiers, Sql Fault Identifiers and Design Time Fault Identifiers. These fault identifiers along with information on the corresponding error encountered by the protocol server are listed in the following sub-sections.



### 2.2.9.1 Common Fault Identifiers

The following table is the list of common fault identifiers, as specified by section [2.2.5.2](#).

| Identifier                        | Meaning  |
|-----------------------------------|--|
| <b>NotMemberOfRole</b>            | The user using the protocol client does not have permission to perform the action attempted by the protocol operation.                                 |
| <b>MaxSessionsPerUserExceeded</b> | The protocol operation cannot be completed because the protocol client has exceeded the maximum number of sessions (2) allowed on the protocol server. |
| <b>RetryError</b>                 | The protocol server is unable to process the request.  |
| <b>MaxRequestDurationExceeded</b> | The request exceeded the amount of time allowed. It has been cancelled.  |
| <b>ProductExpired</b>             | The trial period for the protocol has expired.   |
| <b>NewWorkbookSessionTimeout</b>  | The session (2) has timed out. The default timeout is 1800 seconds.  |
| <b>InvalidArgument</b>            | An invalid argument was passed as an input element to the protocol operation.  |
| <b>InternalError</b>              | An internal error has occurred on the protocol server.   |

### 2.2.9.2 Runtime Fault Identifiers

The following table is the list of runtime fault identifiers, as specified by section [2.2.5.2](#).

| Identifier                                      | Meaning  |
|---|--|
| <b>DataException_QueryParametersNotSupplied</b> | The parameters required in the <b>Source</b> (section <a href="#">3.2.1.1</a> ) are not supplied as input elements to the operation.   |
| <b>DataException_GenericError</b>               | An internal error occurred on the server and data changes could not be saved.  |
| <b>ExternalData_InvalidSource</b>               | The protocol server cannot find the <b>Linked Table</b> ( <a href="#">[MS-AXL2]</a> section 2.1.1.6) to which the protocol client is trying to connect.                          |
| <b>ExternalData_ComponentMissing</b>            | The protocol server cannot connect to the <b>Linked Table</b> ( <a href="#">[MS-AXL2]</a> section 2.1.1.6) because a required component is not installed on the protocol server. |

### 2.2.9.3 Sql Fault Identifiers

The following table is the list of Sql fault identifiers, as specified by section [2.2.5.2](#).

| Identifier                             | Meaning                                   |
|--|---|
| <b>AccessSqlException_GenericError</b> | The protocol server encountered an error. |

| Identifier   | Meaning   |
|--|---|
| <b>AccessSQLException_CalculationCannotbeStored</b>            | A calculation on the protocol server resulted in a value that can't be stored.  |
| <b>AccessSQLException_ObjectNotFound</b>                       | The protocol server can't find the object.  |
| <b>AccessSQLException_PermissionDenied</b>                     | The protocol client does not have sufficient permissions to perform an action.  |
| <b>AccessSQLException_DuplicateConstraintValue</b>             | The changes requested by the protocol client on the <b>table</b> ([MS-AXL2] section 2.1.1) were not successful because they would create duplicate values in the <b>index</b> ([MS-AXL2] section 2.1.1.3), <b>primary key</b> , or other constraints. |
| <b>AccessSQLException_NoQueryParameters</b>                    | Parameters were not supplied for a <b>query</b> ([MS-AXL2] section 1.3.4).  |
| <b>AccessSQLException_FieldNoValue</b>                         | A field (3) is empty but is expecting a value.  |
| <b>AccessSQLException_FieldNoValueDesignTime</b>               | Existing data violates the new setting for a field (3). Values must be filled in for all records in the field (3) before it can be made to accept only non-null values.   |
| <b>AccessSQLException_InvalidFieldName</b>                     | Invalid field (3) name.   |
| <b>AccessSQLException_InvalidObjectName</b>                    | Invalid object name.  |
| <b>AccessSQLException_ObjectAlreadyExists</b>                  | There is already an object with the same name in the database application.  |
| <b>AccessSQLException_MissingExpressionInAggregateFunction</b> | The <b>query</b> ([MS-AXL2] section 1.3.4) that the protocol client is trying to run doesn't include an expression ([MS-AXL2] section 2.2.1.10) as part of an aggregate function.   |
| <b>AccessSQLException_DataTypeConversionMismatch</b>           | The protocol server can't convert values from the current data type to the required data type.  |
| <b>AccessSQLException_InvalidLengthParameter</b>               | The protocol server can't store the result of a   |

| Identifier                             | Meaning  |
|--|--|
|  | function because the value of the function's length parameter isn't valid.   |
| <b>AccessSqlException_ErrorMessage</b> | The protocol server encountered an error.  |
| <b>AccessSqlException_SqlError102</b>  | The protocol server can't evaluate an <b>expression</b> ([MS-AXL2] section 2.2.1.10) because of a syntax error.  |
| <b>AccessSqlException_SqlError107</b>  | A prefix does not match with the name of a <b>table</b> ([MS-AXL2] section 2.1.1) or an alias used in the <b>query</b> ([MS-AXL2] section 1.3.4).  |
| <b>AccessSqlException_SqlError128</b>  | Field (3) names are not permitted in this context.   |
| <b>AccessSqlException_SqlError130</b>  | The protocol server can't perform an aggregate function on an <b>expression</b> ([MS-AXL2] section 2.2.1.10) that contains an aggregate or a <b>sub-query</b> ([MS-AXL2] section 2.2.1.1). |
| <b>AccessSqlException_SqlError192</b>  | The scale must be less than or equal to the precision.   |
| <b>AccessSqlException_SqlError201</b>  | An expected parameter was not supplied.  |
| <b>AccessSqlException_SqlError206</b>  | The protocol server can't evaluate an <b>expression</b> ([MS-AXL2] section 2.2.1.10) or convert data because data types aren't compatible with each other.                                 |
| <b>AccessSqlException_SqlError209</b>  | Ambiguous field (3) name encountered.  |
| <b>AccessSqlException_SqlError214</b>  | Type conversion error in a parameter.  |
| <b>AccessSqlException_SqlError217</b>  | The <b>data macro</b> ([MS-AXL2] section 2.1.2.2) was stopped because an endless loop was detected.  |
| <b>AccessSqlException_SqlError229</b>  | The protocol client doesn't have sufficient permissions to perform the action.   |

| Identifier  | Meaning  |
|---|--|
| <b>AccessSqlException_SqlError241</b>                         | One or more strings couldn't be converted to the Date/Time data type.  |
| <b>AccessSqlException_SqlError245</b>                         | The protocol server can't convert a value to the specified data type.  |
| <b>AccessSqlException_SqlError256</b>                         | The protocol server can't use the specified data with the function because the data type isn't Text or Yes/No.   |
| <b>AccessSqlException_SqlError257</b>                         | The protocol server can't automatically convert the values.  |
| <b>AccessSqlException_SqlError260</b>                         | The protocol server can't automatically convert the values in a field (3).   |
| <b>AccessSqlException_SqlError289</b>                         | A function cannot create a value of type Date, Time, or DateWithTime because some of the arguments have invalid values.  |
| <b>AccessSqlException_SqlError402</b>                         | The protocol server can't evaluate an <b>expression</b> ( <a href="#">[MS-AXL2]</a> section 2.2.1.10) because it contains incompatible data types.                                   |
| <b>AccessSqlException_SqlError403</b>                         | The protocol server can't evaluate an <b>expression</b> ( <a href="#">[MS-AXL2]</a> section 2.2.1.10) because it contains an operator that doesn't work with the supplied data type. |
| <b>AccessSqlException_SqlError421</b>                         | Invalid data type for field (3) in a DISTINCT <b>query</b> ( <a href="#">[MS-AXL2]</a> section 1.3.4).   |
| <b>AccessSqlException_SqlError535</b>                         | The difference between two date values is too large to be stored.  |
| <b>AccessSqlException_SqlError542</b>                         | A date calculation has resulted in a year value greater than 9999, which is too large to store.  |
| <b>AccessSqlException_SqlError547_CheckConstraint_Runtime</b> | One or more values are prohibited by a <b>check constraint</b> ( <a href="#">[MS-AXL2]</a>   |

| Identifier   | Meaning  |
|--|--|
|  | section 2.1.1.1).  |
| <b>AccessSqlException_SqlError547_CheckConstraint_Design_Table</b>   | Existing data violates a new record <b>check constraint</b> ( <a href="#">[MS-AXL2]</a> section 2.1.1.1).  |
| <b>AccessSqlException_SqlError547_CheckConstraint_Design_Column</b>  | Existing data violates a new <b>check constraint</b> ( <a href="#">[MS-AXL2]</a> section 2.1.1.1) for a field (3).   |
| <b>AccessSqlException_SqlError547_ForeignKey_RuntimeInsertUpdate</b> | You cannot add or change a record because a related record is required in a <b>table</b> ( <a href="#">[MS-AXL2]</a> section 2.1.1).   |
| <b>AccessSqlException_SqlError547_ForeignKey_RuntimeDelete</b>       | A record cannot be deleted or changed because a <b>table</b> ( <a href="#">[MS-AXL2]</a> section 2.1.1) contains related records.  |
| <b>AccessSqlException_SqlError547_ForeignKey_Design</b>              | Existing data in a <b>table</b> ( <a href="#">[MS-AXL2]</a> section 2.1.1) violates referential integrity rules.   |
| <b>AccessSqlException_SqlError1004</b>                               | A prefix does not match with a <b>table</b> ( <a href="#">[MS-AXL2]</a> section 2.1.1) name or alias used in the <b>query</b> ( <a href="#">[MS-AXL2]</a> section 1.3.4).      |
| <b>AccessSqlException_SqlError1715</b>                               | The protocol server can't create a relationship with cascade update or delete on a calculated field (3).   |
| <b>AccessSqlException_SqlError1759</b>                               | Computed fields can't reference other <b>computed fields</b> in the <b>expression</b> ( <a href="#">[MS-AXL2]</a> section 2.2.1.10) property.                                  |
| <b>AccessSqlException_SqlError1765</b>                               | Cascade updates aren't supported for relationships on computed fields.   |
| <b>AccessSqlException_SqlError1778</b>                               | Relationship must be between fields (3) of the same data type, and must include the same number of fields (3) in each <b>table</b> ( <a href="#">[MS-AXL2]</a> section 2.1.1). |
| <b>AccessSqlException_SqlError1785</b>                               | Can't create cascading relationship on a <b>table</b>  |

| Identifier                             | Meaning  |
|--|--|
|  | (MS-AXL2] section 2.1.1) as it will cause a circular cascade relationship.   |
| <b>AccessSqlException_SqlError1919</b> | A field (3) in a <b>table</b> (MS-AXL2] section 2.1.1) cannot be used in an <b>index</b> (MS-AXL2] section 2.1.1.3).       |
| <b>AccessSqlException_SqlError2364</b> | The protocol server can't store the result of a function because the value of the function's length parameter isn't valid. |
| <b>AccessSqlException_SqlError2365</b> | The protocol server can't store the result of a function because the value of the function's length parameter isn't valid. |
| <b>AccessSqlException_SqlError2812</b> | The protocol server can't find a <b>data macro</b> (MS-AXL2] section 2.1.2.2).   |
| <b>AccessSqlException_SqlError3250</b> | The value of a parameter is outside of the range the protocol server expects.  |
| <b>AccessSqlException_SqlError3623</b> | The protocol server can't store the result of a function because the value of the function's length parameter isn't valid. |
| <b>AccessSqlException_SqlError3726</b> | The protocol server can't delete an object because it is included in a relationship.                                       |
| <b>AccessSqlException_SqlError3906</b> | The protocol server is currently read-only and some operations are not allowed.  |
| <b>AccessSqlException_SqlError4104</b> | The protocol server can't find a <b>column (1)</b> or expression, or the name is ambiguous.                                |
| <b>AccessSqlException_SqlError4121</b> | The protocol server is expecting a Boolean value.  |
| <b>AccessSqlException_SqlError4145</b> | The protocol server is expecting a Boolean condition.  |
| <b>AccessSqlException_SqlError4405</b> | Update or delete for a <b>query</b> (MS-AXL2] section 1.3.4) failed because the  |

| Identifier                              | Meaning  |
|---|--|
|   | change would affect more than one base <b>table</b> ([MS-AXL2] section 2.1.1).   |
| <b>AccessSqlException_SqlError4506</b>  | An output alias is used more than once.  |
| <b>AccessSqlException_SqlError4511</b>  | Can't create a <b>query</b> ([MS-AXL2] section 1.3.4) because no alias was specified for a field (3).  |
| <b>AccessSqlException_SqlError4901</b>  | The protocol server can't save the changes because one or more objects reference the field (3).  |
| <b>AccessSqlException_SqlError4922</b>  | The protocol server can't save the changes because one or more objects reference the field (3).  |
| <b>AccessSqlException_SqlError4924</b>  | A field (3) does not exist in a <b>table</b> ([MS-AXL2] section 2.1.1).  |
| <b>AccessSqlException_SqlError7704</b>  | The protocol server can't use the specified value because its data type isn't valid for the operation.   |
| <b>AccessSqlException_SqlError8114</b>  | The protocol server couldn't convert the value from the current data type to the specified data type.  |
| <b>AccessSqlException_SqlError8115</b>  | While converting a value from one data type to another, the protocol server produced a value that can't be stored.                                   |
| <b>AccessSqlException_SqlError8117</b>  | The protocol server can't evaluate an <b>expression</b> ([MS-AXL2] section 2.2.1.10) because a value's data type isn't compatible with its operator. |
| <b>AccessSqlException_SqlError8134</b>  | Division by zero.  |
| <b>AccessSqlException_SqlError8152</b>  | The protocol server can't store the result of the calculation.   |
| <b>AccessSqlException_SqlError9810</b>  | The protocol server can't use a date part function.  |
| <b>AccessSqlException_SqlError17142</b> | The SQL Server database  |

| Identifier                                 | Meaning                                  |
|--|--|
|  | service is unavailable.                  |
| <b>AccessSqlException_CustomError50001</b> | Circular reference resulted in an error. |
| <b>AccessSqlException_CustomError50003</b> | A specified data source does not exist.  |

#### 2.2.9.4 Design Time Fault Identifiers

The following table is the list of Design time fault identifiers, as specified by section [2.2.5.2](#).

| Identifier  | Meaning  |
|---|--|
| <b>WebService_ObjectNotFound</b>                                      | The protocol server cannot find the object requested.  |
| <b>WebService_InvalidId</b>   | An invalid argument was passed as input to the protocol server.  |
| <b>WebService_ObjectSaveConflict</b>                                  | The protocol server cannot save the object because someone else has made changes to it.                                |
| <b>WebService_ObjectModifiedExternally</b>                            | The protocol server cannot save object because someone else has made changes to it using an external tool.             |
| <b>WebService_SiteDoesNotExist</b>                                    | The protocol server cannot find <b>site (2)</b> identified by the URI in request message.                              |
| <b>WebService_DeleteApplicationWithSubwebs</b>                        | The protocol server cannot delete an application that has sub sites (2).   |
| <b>WebService_InvalidApplicationEndPoint</b>                          | The protocol server cannot find site (2) identified by the URI in request message.                                     |
| <b>WebService_GetServerInformation_SiteDoesNotExist</b>               | The protocol server cannot find site (2) identified by the URI in request message.                                     |
| <b>WebService_CreateApplication_SiteDoesNotExist</b>                  | The protocol server cannot create a new database application at the site (2) identified by the URI in request message. |
| <b>WebService_SetApplicationProperties_SetThemePermissionsFailure</b> | The protocol server failed to  |



| Identifier   | Meaning  |
|--|--|
|  | apply a theme to the database application because of insufficient permissions.   |
| <b>ObjectAlreadyExists</b>                         | An object of the same type with the same name already exists in the database application.  |
| <b>TableException_CsdlDefinitionNotSupported</b>   | An internal error occurred on the protocol server while saving a <b>table</b> ([MS-AXL2] section 2.1.1)  |
| <b>TableException_DuplicateColumnName</b>          | Duplicate field (3) names provided while creating a <b>table</b> ([MS-AXL2] section 2.1.1).  |
| <b>TableException_InvalidColumn</b>                | Invalid field(3) provided while creating a <b>table</b> ([MS-AXL2] section 2.1.1).   |
| <b>TableException_InvalidFieldInExpression</b>     | Invalid field (3) was referenced in an <b>expression</b> ([MS-AXL2] section 2.2.1.10) while creating a <b>table</b> ([MS-AXL2] section 2.1.1). |
| <b>TableException_InvalidObjectInExpression</b>    | Invalid object was referenced in an <b>expression</b> ([MS-AXL2] section 2.2.1.10) while creating a <b>table</b> ([MS-AXL2] section 2.1.1).    |
| <b>QueryException_AmbiguousSourceNamesProvided</b> | Duplicate <b>Source</b> (section 3.2.1.1) names provided while creating a <b>Named Query</b> (section 3.2.1.1).                                |
| <b>QueryException_InvalidSourceNamesProvided</b>   | Invalid <b>Source</b> (section 3.2.1.1) names provided while creating a <b>Named Query</b> (section 3.2.1.1).                                  |
| <b>QueryException_AmbiguousAliasProvided</b>       | Duplicate field (3) names provided while creating a <b>Named Query</b> (section 3.2.1.1).  |
| <b>QueryException_AmbiguousJoins</b>               | <b>Named Query</b> (section 3.2.1.1) cannot be saved because the protocol server cannot determine which <b>CT_Join</b> ([MS-AXL2]              |

| Identifier   | Meaning  |
|--|--|
|  | section 2.2.3.10) should be performed first.   |
| <b>QueryException_GenericAXLValidation</b>                   | <b>Named Query</b> (section <a href="#">3.2.1.1</a> ) cannot be saved because it failed validation.  |
| <b>QueryException_OutputNotInGroupsOrPartOfAggregate</b>     | <b>Named Query</b> (section <a href="#">3.2.1.1</a> ) cannot be saved because one of the fields (3) is not part of an aggregate function.  |
| <b>QueryException_ParameterTypeMismatch</b>                  | <b>Named Query</b> (section <a href="#">3.2.1.1</a> ) cannot be saved because one of the <b>CT_Parameters</b> ( <a href="#">[MS-AXL2]</a> section 2.2.3.12) has invalid data type.   |
| <b>QueryException_OrderNotInOutputs</b>                      | <b>Named Query</b> (section <a href="#">3.2.1.1</a> ) cannot be saved because one of the fields (3) referenced in <b>CT_Order</b> ( <a href="#">[MS-AXL2]</a> section 2.2.3.2) or <b>CT_OrderExpression</b> ( <a href="#">[MS-AXL2]</a> section 2.2.3.71) is not in <b>CT_Results</b> ( <a href="#">[MS-AXL2]</a> section 2.2.3.9) |
| <b>OrderingException_InvalidSpecification</b>                | Invalid <b>sortExpression</b> is supplied as an input element in <b>OpenResultSet</b> (section <a href="#">3.2.4.10.2.1</a> )  |
| <b>OrderingException_InvalidColumnName</b>                   | MUST NOT be used.  |
| <b>MacroCompilationException_InvalidAxl</b>                  | The Macro compilation failed due to invalid AXL.   |
| <b>MacroCompilationException_InvalidAction</b>               | Action specified is invalid.   |
| <b>MacroCompilationException_InvalidEventName</b>            | The event attribute is invalid.  |
| <b>MacroCompilationException_RequiredArgumentMissing</b>     | A required argument is not present for a Macro action.   |
| <b>MacroCompilationException_ArgumentValueNotSpecified</b>   | Value is not specified for a given argument.   |
| <b>MacroCompilationException_InvalidActionArgument</b>       | The value of a given argument it not valid.  |
| <b>MacroCompilationException_InvalidParameter</b>            | The name of an input parameter is not valid.   |
| <b>MacroCompilationException_MacroCallStackDepthExceeded</b> | The number of nesting  |

| Identifier   | Meaning  |
|--|--|
|  | macros exceeds the limit.  |
| <b>MacroCompilationException_VariableNameCollision</b>   | A local variable or return variable is using the same name as previously defined variable or parameter.  |
| <b>MacroCompilationException_EmptyConditionalBlock</b>   | A conditional block does not contain any actionable statements.  |
| <b>MacroCompilationException_EmptyLookupRecordBlock</b>  | A <b>LookupRecord</b> ( <a href="#">[MS-AXL2]</a> section 2.2.3.24) block does not contain any actionable statements.  |
| <b>MacroCompilationException_UpdateOnDeletedRecord</b>   | <b>EditRecord</b> ( <a href="#">[MS-AXL2]</a> section 2.2.3.28) or <b>DeleteRecord</b> ( <a href="#">[MS-AXL2]</a> section 2.2.5.1.4) is operating against an already record which no longer exists. |
| <b>MacroCompilationException_UpdateRecordInNDM</b>   | Action <b>EditRecord</b> ( <a href="#">[MS-AXL2]</a> section 2.2.3.28) is used at the root level of a <b>Named Data Macro</b> as specified by <a href="#">[MS-AXL2]</a> section 2.1.2.2.             |
| <b>MacroCompilationException_InvalidAlias</b>  | The Alias specified is not valid.  |
| <b>MacroCompilationException_InvalidIdentifier</b>   | The identifier specified is not valid.   |
| <b>MacroCompilationException_InvalidVariableName</b>   | A local variable or return variable name uses invalid prefix, or violates the naming rules.  |
| <b>UnsupportedDatabaseCollation</b>  | The database application collation is not supported.   |
| <b>NoDatabaseServersAvailableForCreate</b>   | No database servers are available for create.  |
| <b>NoSQLAuthDatabaseServersAvailableForCreate</b>  | No database servers where <b>SqlAuthenticationMode</b> (section <a href="#">3.2.4.39.4.1</a> ) value is "SqlServerAuth" are available for create.  |
| <b>ProvisioningApplicationAlreadyExists<br/>FormException_GenericAXLValidation<br/>UnrecognizedVersion</b> | The protocol server cannot save database application because another database application with the same name already exists.   |

| Identifier  | Meaning  |
|---|--|
| <b>ProvisioningAccessServicesNotSupportedBySite</b> | The protocol server cannot create the database application because a template it needs is not available. |

Preliminary

## 3 Protocol Details

In the following sections, the schema definition might differ from the processing rules imposed by the protocol. The WSDL in this specification matches the WSDL that shipped with the product and provides a base description of the schema. The text that introduces the WSDL might specify differences that reflect actual Microsoft product behavior. For example, the schema definition might allow for an element to be **empty**, **null**, or **not present** but the behavior of the protocol as specified restricts the same elements to being **non-empty**, **not null**, and **present**.

The client side of this protocol is simply a pass-through. That is, no additional timers or other state is required on the client side of this protocol. Calls that are made by the higher-layer protocol or application are passed directly to the transport, and the results that are returned by the transport are passed directly to the higher-layer protocol or application.

Except where specified, protocol clients SHOULD interpret Hypertext Transfer Protocol (HTTP) status codes that are returned by the protocol server as specified in [\[RFC2616\]](#), section 10.

This protocol allows protocol servers to notify protocol clients of application-level faults by using SOAP faults. Except where otherwise specified, these SOAP faults are not significant for interoperability and protocol clients can interpret them in an implementation-specific manner.

This protocol allows protocol servers to perform implementation-specific authorization checks and to notify protocol clients of authorization faults by using either HTTP status codes or SOAP faults, as specified previously in this section.

### 3.1 Client Details

The client side of this protocol is simply a pass-through. That is, no additional timers or other state is required on the client side of this protocol. Calls that are made by the higher-layer protocol or application are passed directly to the transport, and the results that are returned by the transport are passed directly to the higher-layer protocol or application.

For any of the **Runtime protocol operations** (section [3.2.1](#)) however, the client side of this protocol needs to call the **OpenSession** operation (section [3.2.4.11](#)) and **GetObjectSchema** operation (section [3.2.4.7](#)) before calling any other runtime protocol operation. The **OpenSession** operation creates a new session (2) on the protocol server and assigns a **sessionId** (section [3.2.4.11.2.2](#)) to the newly created session (2). The **GetObjectSchema** operation creates a new result set on the current session (2) and assigns a unique **moniker** (section [3.2.4.7.2.2](#)) for the result set. The protocol client can then call any other runtime operation using the **moniker** and the **sessionId** elements to ensure that actions are performed on the same result set. If the protocol client wants to query data from any other **Source** (section [3.2.1.1](#)) in the database application, it does not need to call **OpenSession** operation again. However, it MUST call **GetObjectSchema** operation with the object name passed in the **source** input element. This operation will create another result set in the same session (2) and assign a new **moniker** to it.

### 3.2 Server Details

#### 3.2.1 Abstract Data Model

This section describes a conceptual model of possible data organization that an implementation maintains to participate in this protocol. The described organization is provided to facilitate the explanation of how the protocol behaves. This document does not mandate that implementations adhere to this model as long as their external behavior is consistent with that described in this document.

The protocol operations are divided into two major categories:

- Design time protocol operations.
- Runtime protocol operations.

**Design time protocol operations:** The design time protocol operations enable creation and modification of database application. Once the database application has been created, the design time protocol operations enable creation, modification, and deletion of objects in the database application. Some design time operations can be used to query information about the database application or objects in it. Some operations can be used to create and enable logins which can connect directly to the database application.

All the design time protocol operations are listed following.

**AddFirewallRule** operation (section [3.2.4.13](#)), **CreateAccessObject** operation (section [3.2.4.14](#)), **CreateApplication** operation (section [3.2.4.15](#)), **CreatePackage** operation (section [3.2.4.16](#)), **DeleteAccessObject** operation (section [3.2.4.17](#)), **DeleteApplication** operation (section [3.2.4.18](#)), **DeleteFirewallRules** operation (section [3.2.4.19](#)), **GetAccessObject** operation (section [3.2.4.20](#)), **GetApplicationInformation** operation (section [3.2.4.21](#)), **GetDataConnectivity** operation (section [3.2.4.23](#)), **GetApplicationProperties** (section [3.2.4.22](#)), **GetDataConnectivityStatus** operation (section [3.2.4.24](#)), **GetFirewallRules** operation (section [3.2.4.25](#)), **GetLinkedTableInformation** operation (section [3.2.4.26](#)), **GetThemeList** operation (section [3.2.4.27](#)), **ImportData** operation (section [3.2.4.28](#)), **RefreshLinkedTableInformation** operation (section [3.2.4.29](#)), **RenameAccessObject** operation (section [3.2.4.30](#)), **SetApplicationProperties** operation (section [3.2.4.31](#)), **SetDataConnectivityStatus** operation (section [3.2.4.32](#)), **SetDataMacroTracing** operation (section [3.2.4.33](#)), **UpdateAccessObject** operation (section [3.2.4.34](#)), **CheckCopyStatus** operation (section [3.2.4.35](#)), **CopyDatabase** operation (section [3.2.4.36](#)), **DatabaseExists** operation (section [3.2.4.37](#)), **ExecuteDacIncrementalUpgrade** operation (section [3.2.4.38](#)), **GetAvailableServer** operation (section [3.2.4.39](#)), **GetPackage** operation (section [3.2.4.40](#)), **GetServerName** operation (section [3.2.4.41](#)), **ProvisionDatabase** operation (section [3.2.4.42](#)), **RenameDatabase** operation (section [3.2.4.43](#)), **SetReadWrite** operation (section [3.2.4.44](#)), and **UnprovisionDatabase** operation (section [3.2.4.45](#)).

**Run time protocol operations:** The run time protocol operations enable querying, inserting, updating and deleting of data in the database application. Once the database application and objects in it have been created, the run time operations can be called by the protocol client. To enable a collaborative environment, the protocol client MUST call **OpenSession** operation (section [3.2.4.11](#)) and **GetObjectSchema** operation (section [3.2.4.7](#)) before any runtime operation. The **OpenSession** operation creates a new session (2) and the **GetObjectSchema** operation creates a result set in the current session (2) and assigns a **moniker** (section [3.2.4.7.2.1](#)) for it. All the subsequent run time operations use this **moniker**, to perform actions on the same result set. If the protocol client wants to query data from any other object in the database application, it MUST call **GetObjectSchema** operation with the object name passed in the **source** input element. This operation will create another result set in the current session (2) and assign a new **moniker** to it.

All the run time protocol operations are listed following.

**CloseSession** operation (section [3.2.4.1](#)), **DeleteData** operation (section [3.2.4.2](#)), **FixupRow** operation (section [3.2.4.3](#)), **GetData** operation (section [3.2.4.4](#)), **GetDistinctValues** operation (section [3.2.4.5](#)), **GetObjectSchema** operation (section [3.2.4.7](#)), **InsertData** operation (section [3.2.4.8](#)), **KeepAlive** operation (section [3.2.4.9](#)), **OpenResultSet** operation (section [3.2.4.10](#)), **OpenSession** operation (section [3.2.4.11](#)), **UpdateData** operation (section [3.2.4.12](#)).

### 3.2.1.1 Common Terms

The following terms are common amongst all protocol operations.

**Session:** An entity that gives context to operations working against application data. A session (2) is associated with one or more result sets, which can be modified by **state changing** operations.

**Request:** An entity that represents a running request on the protocol server.

**Named Query:** An entity stored in the database application representing a **CT\_Query** element, as specified in [\[MS-AXL2\]](#) section 2.2.3.18. The **Name** attribute of the element **MUST** be specified.

**Source:** A **table** or a **Named Query** in the database application. One or more **Sources** **MUST** be referenced in a **CT\_Query** element.

**Updatable Source:** The **Source** in a database application against which insert, update, and delete data operations are applied.

- If a **Source** is a table, it is an **Updatable Source**.
- For a **Named Query** based on a single **Source**, that query is updatable, as long as it the **Source** is updatable, and the query includes the primary key of the **Source**.
- For queries with more than one **Source** to be updatable, the **Sources** in the query **MUST** be connected by joins. Each join is specified by a **CT\_Join** element, as specified in [\[MS-AXL2\]](#) section 2.2.3.10. For the join, call the **Source** specified in the **Left** attribute  $S_L$ , the **Source** specified in the **Right** attribute  $S_R$ , the property specified in the **LeftProperty** attribute  $P_L$ , the property specified in the **RightProperty** attribute  $P_R$ , and the join type specified in the **Type** attribute  $T$ . For the query to be updatable, a property **MUST** be part of exactly one **CT\_Join** element.

If a graph is defined by considering each **Source** as a node, and each **CT\_Join** as an edge between its **Sources**  $S_L$  and  $S_R$ , then the graph:

- **MUST** be fully connected.
- **MUST** be acyclic.
- **MUST NOT** have more than one edge between two given nodes.

For each **CT\_Join**,  $S_L$  is updatable in relation to  $S_R$  if all of the following conditions hold:

- $T$  is "Inner" or "Left Outer."
- $P_R$  is a primary key field.
- $P_L$  is not a primary key field.

$S_R$  is updatable in relation to  $S_L$  if all of the following conditions hold:

- $T$  is "Inner" or "Right Outer."
- $P_L$  is a primary key field.
- $P_R$  is not a primary key field.

Otherwise,  $S_R$  is not updatable in relation to  $S_L$  and  $S_L$  is not updatable in relation to  $S_R$ .

The query is updatable, if there exists a **Source** that is updatable in relation to all of the **Sources** that it is connected to in the graph for the query. Because the graph is fully connected and acyclic, there is exactly one of these **Sources**. Only the fields (3) from this **Source** are updatable.

**Result Set:** A set of rows that results from running a query specified by a **Source**. Rows SHOULD satisfy the **filter** and **restriction** criteria which are input elements in **OpenResultSet** (section [3.2.4.10.2.1](#)), and SHOULD be sorted according to the **sortExpression** which is an input element in **OpenResultSet** (section [3.2.4.10.2.1](#)).

A protocol client requests a subset of the rows in a result set by specifying a starting index and a maximum row count to return. The row indices are consecutive integer values starting at zero and ending at one less than the total number of rows, or maximum row count, whichever is smaller

### 3.2.1.2 SessionIdentifier

A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that uniquely identifies a session (2) on the protocol server and also contains information about the session (2).

The **SessionIdentifier** MUST have the following layout:

(Numeric values in parts 1, 3, 5, 6, 8, 10, 12, and 14 MUST follow the **int** ([\[XMLSCHEMA2\]](#) section 3.3.17) type representation)

**Part 1:** MUST be the value "1", followed by a period (".").

**Part 2:** MUST be "V".

**Part 3:** The number of characters in part 4, followed by a period (".").

**Part 4:** A unique **string** ([\[XMLSCHEMA2\]](#) section 3.2.1). MUST be greater than or equal to 20 and less than or equal to 32647 characters long.

**Part 5:** The sum of the number of characters in parts 6-11, followed by a period (".").

**Part 6:** The number of characters in part 7, followed by a period (".").

**Part 7:** The **UI culture** of the session (2). A language tag, as specified in [\[RFC1766\]](#) Section 2.

**Part 8:** The number of characters in part 9, followed by a period (".").

**Part 9:** The data culture of the session (2). A language tag, as specified in [\[RFC1766\]](#) Section 2.

**Part 10:** The number of characters in part 11, followed by a period (".").

**Part 11:** The **time zone** of the session (2), as specified in **CultureCommandParameter** complex type (section [3.2.4.11.3.1](#)).

**Part 12:** The number of characters in part 13, followed by a period (".").

**Part 13:** MUST be equal to the value of **RequestSiteId** passed in *parameter*, in the **OpenSession** operation (section [3.2.4.11.2.1](#)).

**Part 14:** MUST be the value "1", followed by a period (".").

**Part 15:** MUST be "U".



### 3.2.2 Timers

The **Session Timeout** timer measures the time it takes for a session (2) to time out. The default session timeout is 1,800 seconds.

### 3.2.3 Initialization

None.

### 3.2.4 Message Processing Events and Sequencing Rules

The following table summarizes the list of operations as defined by this specification:

| Operation                    | Description   |
|------------------------------|---|
| AddFirewallRule              | This operation adds a <b>FirewallRule</b> ( <a href="#">[MS-AADT]</a> section 2.2.4.15) to the database application.  |
| CheckCopyStatus              | This operation retrieves the status of a <b>CopyDatabase</b> operation (section <a href="#">3.2.4.36</a> ).   |
| CloseSession                 | The <b>CloseSession</b> operation closes a session (2) on the protocol server.  |
| CopyDatabase                 | This operation instructs the protocol server to begin copying a database.   |
| CreateAccessObject           | This operation triggers creation of an object in a database application.  |
| CreateApplication            | This operation creates a new database application under the current site (2).   |
| CreatePackage                | This operation triggers creation of a package that represents a database application, including its objects and data. The package can be retrieved by using the <b>GetPackage</b> operation (section <a href="#">3.2.4.40</a> ).                              |
| DatabaseExists               | This operation is used to determine whether or not a database exists on the protocol server.  |
| DeleteAccessObject           | This operation triggers deletion of an object in a database application.  |
| DeleteApplication            | This operation deletes the database application located under the current site (2).   |
| DeleteData                   | This operation deletes a record from a table in the database application and also deletes the corresponding row from the result set.  |
| DeleteFirewallRules          | This operation deletes the <b>FirewallRules</b> ( <a href="#">[MS-AADT]</a> section 2.2.4.15) from the database application. These <b>FirewallRules</b> MUST be previously added by the <b>AddFirewallRule</b> operation (section <a href="#">3.2.4.13</a> ). |
| ExecuteDacIncrementalUpgrade | Instructs the protocol server to update the contents of a database.   |
| FixupRow                     | This operation returns the results of performing a hypothetical update on the result set.   |
| GetAccessObject              | This operation triggers retrieval of the requested object from a database application.  |

| Operation                 | Description  |
|---------------------------|--|
| GetApplicationInformation | This operation retrieves information about a database application from the protocol server.  |
| GetApplicationProperties  | This operation retrieves a set of property values that exist in a database application.  |
| GetAvailableServer        | This operation returns an available database server on which new databases can be created using a given mode of authentication.  |
| GetData                   | This operation performs sort, filter, and synchronization operations on rows in the result set, and returns a subset of those rows.  |
| GetDataConnectivity       | This operation retrieves information about a login in the database application, which is used to connect to the database application directly.                                   |
| GetDataConnectivityStatus | This operation retrieves status information about logins in the database application, which are used to connect to the database application directly.                            |
| GetDistinctValues         | This operation returns a single column from a result set with duplicate values removed.  |
| GetFirewallRules          | This operation retrieves all the <b>FirewallRules</b> ( <a href="#">[MS-AADT]</a> section 2.2.4.15) present in the database application.   |
| GetHealthScore            | This operation returns information about the health of the protocol server.  |
| GetLinkedTableInformation | This operation retrieves information from the protocol server about a table in a database application.   |
| GetObjectSchema           | This operation retrieves metadata information of a <b>Source</b> (section <a href="#">3.2.1.1</a> ) in a database application, and returns the information to a protocol client. |
| GetPackage                | This operation retrieves a package that represents a database application, including its objects and data.   |
| GetServerName             | Retrieves the name of a database server associated with a given handle.  |
| GetThemeList              | This operation retrieves a list of <b>themes</b> that can be applied to a database application.  |
| ImportData                | This operation triggers importing data into a table in a database application.   |
| InsertData                | This operation inserts a record into a table in the database application and also inserts a row into the result set.   |
| KeepAlive                 | This operation extends the time a session (2) has remaining before it times out.   |
| OpenResultSet             | This operation opens a result set for the given <b>Source</b> (section <a href="#">3.2.1.1</a> ) and returns a subset of rows from the result set.                               |
| OpenSession               | This operation creates a new session (2).  |

| Operation                     | Description   |
|-------------------------------|---|
| ProvisionDatabase             | Instructs the protocol server to create a new database.   |
| RefreshLinkedTableInformation | This operation refreshes an existing <b>linked table</b> ([MS-AXL2] section 2.1.1.6) in a database application on the protocol server. The protocol server uses the <b>ID</b> attribute in the <b>RefreshLinkedTableInformationParameters</b> ([MS-AADT] section 3.1.4.18.3.1) element to identify the <b>linked table</b> ([MS-AXL2] section 2.1.1.6) in the database application, updates its definition from the source of the <b>linked table</b> ([MS-AXL2] section 2.1.1.6), and returns the updated definition to the protocol client. |
| RenameAccessObject            | This operation changes the name of an object in a database application.   |
| RenameDatabase                | Changes the name of a database.   |
| SetApplicationProperties      | This operation sets one or more properties on a database application.   |
| SetDataConnectivityStatus     | This operation enables or disables a login in the database application, which is used to connect to the database application directly.  |
| SetDataMacroTracing           | This operation sets the data macro tracing option in a database application.  |
| SetReadWrite                  | Instructs the protocol server to toggle a database between read-only and read-write states.   |
| UnprovisionDatabase           | Instructs the protocol server to delete a database.   |
| UpdateAccessObject            | This operation updates an object in a database application.   |
| UpdateData                    | This operation updates a record in an <b>Updatable Source</b> (section 3.2.1.1) in the database application and also updates the row in the result set.   |

### 3.2.4.1 CloseSession

The **CloseSession** operation closes a session (2) on the protocol server.

```
<wsdl:operation name="CloseSession" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/CloseSession"
    message="tns1:IAccessServiceSoap_CloseSession_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/CloseSessionResponse"
    message="tns1:IAccessServiceSoap_CloseSession_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/CloseSessionAccessServerMessageFault"
    name="AccessServerMessageFault"
    message="tns1:IAccessServiceSoap_CloseSession_AccessServerMessageFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IAccessServiceSoap\_CloseSession\_InputMessage** (section [3.2.4.1.1.1](#)) request message and the protocol server responds with an **IAccessServiceSoap\_CloseSession\_OutputMessage** (section [3.2.4.1.1.2](#)) response message as follows:

- The protocol server closes the session (2) specified in the **WorkbookId** element in the **parameter** element in the **CloseSession** element (section [3.2.4.1.2.1](#)) and returns back the **CloseSessionResponse** element (section [3.2.4.1.2.2](#)).
- In the event of an application error on the protocol server during this operation, a SOAP fault is returned, as specified in section [2.2.9](#). The **Id** element of the **AccessServerMessage** (section [2.2.4.1](#)) MUST be one of the values specified in section [2.2.9.1](#).

### 3.2.4.1.1 Messages

The following table summarizes the set of **WSDL message** definitions that are specific to this operation.

| Message                                       | Description  |
|---|--|
| IAccessServiceSoap_CloseSession_InputMessage  | The request WSDL message for the <b>CloseSession WSDL operation</b> .  |
| IAccessServiceSoap_CloseSession_OutputMessage | The response WSDL message for the <b>CloseSession WSDL operation</b> . |

#### 3.2.4.1.1.1 IAccessServiceSoap\_CloseSession\_InputMessage

The request WSDL message for the **CloseSession** WSDL operation.

The **SOAP action** value is:

`http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/CloseSession`

The **SOAP body** contains the **CloseSession** element.

#### 3.2.4.1.1.2 IAccessServiceSoap\_CloseSession\_OutputMessage

The response WSDL message for the **CloseSession** WSDL operation.

The SOAP body contains the **CloseSessionResponse** element.

### 3.2.4.1.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

| Element              | Description   |
|----------------------|---|
| CloseSession         | The input data for the <b>CloseSession</b> WSDL operation.  |
| CloseSessionResponse | The result data for the <b>CloseSession</b> WSDL operation. |

### 3.2.4.1.2.1 CloseSession

The input data for the **CloseSession** WSDL operation.

```
<xs:element name="CloseSession" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="parameter" type="tns1:CommandParameter"/>
      <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="userCookieId" type="q1:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**parameter:** A **CommandParameter**, as specified in section [2.2.4.3](#). MUST be present.

**userCookieId:** A **guid** (section [2.2.5.5](#)) that specifies an identifier for the operation. SHOULD be ignored by the protocol server.

### 3.2.4.1.2.2 CloseSessionResponse

The result data for the **CloseSession** WSDL operation.

```
<xs:element name="CloseSessionResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="CloseSessionResult"
type="tns1:CommandResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**CloseSessionResult:** A **CommandResult**, as specified in section [2.2.4.4](#). MUST be present.

### 3.2.4.1.3 Complex Types

None.

### 3.2.4.1.4 Simple Types

None.

### 3.2.4.1.5 Attributes

None.

### 3.2.4.1.6 Groups

None.

### 3.2.4.1.7 Attribute Groups

None.

### 3.2.4.2 DeleteData

This operation deletes a record from a table in the database application and also deletes the corresponding row from the result set.

```
<wsdl:operation name="DeleteData" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/DeleteData"
    message="tnsl:IAccessServiceSoap_DeleteData_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/DeleteDataResponse"
    message="tnsl:IAccessServiceSoap_DeleteData_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/DeleteDataAccessServerMessageFault"
    name="AccessServerMessageFault"
    message="tnsl:IAccessServiceSoap_DeleteData_AccessServerMessageFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IAccessServiceSoap\_DeleteData\_InputMessage** (section [3.2.4.2.1.1](#)) request message and the protocol server responds with an **IAccessServiceSoap\_DeleteData\_OutputMessage** (section [3.2.4.2.1.2](#)) response message as follows:

- The protocol server deletes from the **Updatable Source** (section [3.2.1.1](#)) the record that has a primary key equal to the **Key** element of the first **KeyValuePair** in the **keys** element in the **DeleteData** element (section [3.2.4.2.2.1](#)).
- If the record is successfully deleted, then the protocol server also deletes from the result set the row with a primary key equal to primary key of the deleted record.
- In the event of an application error on the protocol server during this operation, a SOAP fault is returned, as specified in section [2.2.9](#). The **Id** element of the **AccessServerMessage** (section [2.2.4.1](#)) MUST be one of the values specified in either section [2.2.9.1](#), section [2.2.9.2](#) or section [2.2.9.3](#).

#### 3.2.4.2.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

| Message                                     | Description   |
|---|---|
| IAccessServiceSoap_DeleteData_InputMessage  | The request WSDL message for the <b>DeleteData</b> WSDL operation.  |
| IAccessServiceSoap_DeleteData_OutputMessage | The response WSDL message for the <b>DeleteData</b> WSDL operation. |

##### 3.2.4.2.1.1 IAccessServiceSoap\_DeleteData\_InputMessage

The request WSDL message for the **DeleteData** WSDL operation.

The SOAP action value is:

```
http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/DeleteData
```

The SOAP body contains the **DeleteData** element.

### 3.2.4.2.1.2 IAccessServiceSoap\_DeleteData\_OutputMessage

The response WSDL message for the **DeleteData** WSDL operation.

The SOAP body contains the **DeleteDataResponse** element.

### 3.2.4.2.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

| Element            | Description   |
|--------------------|---|
| DeleteData         | The input data for the <b>DeleteData</b> WSDL operation.  |
| DeleteDataResponse | The result data for the <b>DeleteData</b> WSDL operation. |

#### 3.2.4.2.2.1 DeleteData

The input data for the **DeleteData** WSDL operation.

```
<xs:element name="DeleteData" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="parameter" type="tns1:CommandParameter"/>
      <xs:element minOccurs="0" maxOccurs="1" name="moniker" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="keys" type="tns1:ArrayOfKeyValuePair"/>
      <xs:element minOccurs="0" maxOccurs="1" name="oldValues"
type="tns1:ArrayOfKeyValuePair"/>
      <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="userCookieId" type="q1:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**parameter:** A **CommandParameter**, as specified in section [2.2.4.3](#). MUST be present.

**moniker:** A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies an identifier for a result set. MUST be present. MUST contain an identifier that was previously supplied during the session (2) as the **moniker** element for the input to the **GetObjectSchema** operation (section [3.2.4.7.2.1](#)).

**keys:** An **ArrayOfKeyValuePair** (section [2.2.4.2](#)) that specifies the record to delete.

- MUST be present and MUST contain exactly one **KeyValuePair** (section [2.2.4.5](#))
- The **Key** element of the **KeyValuePair** MUST be of type **xs:int** and MUST be a primary key for a record in the table.

- The **Value** element of the **KeyValuePair** MUST be ignored.

**oldValues:** An **ArrayOfKeyValuePair** (section [2.2.4.5](#)) that specifies the fields (3) and their original values in the record identified by **keys** element. MUST be present and MUST contain at least one **KeyValuePair** (section [2.2.4.5](#)). SHOULD be ignored by the protocol server.

**userCookieId:** A **guid** (section [2.2.5.5](#)) that specifies an identifier for the operation. SHOULD be ignored by the protocol server.

### 3.2.4.2.2 DeleteDataResponse

The result data for the **DeleteData** WSDL operation.

```
<xs:element name="DeleteDataResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="DeleteDataResult"
type="tns1:CommandResult"/>
      <xs:element minOccurs="1" maxOccurs="1" name="recordsDeleted" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**DeleteDataResult:** A **CommandResult**, as specified in section [2.2.4.4](#). MUST be present.

**recordsDeleted:** MUST be "1".

### 3.2.4.2.3 Complex Types

None.

### 3.2.4.2.4 Simple Types

None.

### 3.2.4.2.5 Attributes

None.

### 3.2.4.2.6 Groups

None.

### 3.2.4.2.7 Attribute Groups

None.

### 3.2.4.3 FixupRow

This operation returns the results of performing a hypothetical update on the result set.

```
<wsdl:operation name="FixupRow" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/FixupRow"
```



```

message="tnsl:IAccessServiceSoap_FixupRow_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/FixupRowResponse"
message="tnsl:IAccessServiceSoap_FixupRow_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/FixupRowAccessServerMessageFault"
name="AccessServerMessageFault"
message="tnsl:IAccessServiceSoap_FixupRow_AccessServerMessageFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends an **IAccessServiceSoap\_FixupRow\_InputMessage** (section [3.2.4.3.1.1](#)) request message and the protocol server responds with an **IAccessServiceSoap\_FixupRow\_OutputMessage** (section [3.2.4.3.1.2](#)) response message as follows:

- The protocol server retrieves a copy of a row from the database application using the **Updatable Source** (section [3.2.1.1](#)), which was previously supplied as the **source** input element to **GetObjectSchema** Operation (section [3.2.4.7.2.1](#)) and the given **key**, and updates the columns specified in **values** in the copy. Neither the database application nor the result set are modified. If the update succeeds, the protocol server returns the updated values of all columns in the row.
- In the event of an application error on the protocol server during this operation, a SOAP fault is returned, as specified in section [2.2.9](#). The **Id** element of the **AccessServerMessage** MUST be one of the common fault identifiers specified in section [2.2.9.1](#) or one of the Sql fault identifiers specified in section [2.2.9.3](#).

### 3.2.4.3.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

| Message                                   | Description   |
|---|---|
| IAccessServiceSoap_FixupRow_InputMessage  | The request WSDL message for the <b>FixupRow</b> WSDL operation.  |
| IAccessServiceSoap_FixupRow_OutputMessage | The response WSDL message for the <b>FixupRow</b> WSDL operation. |

#### 3.2.4.3.1.1 IAccessServiceSoap\_FixupRow\_InputMessage

The request WSDL message for the **FixupRow** WSDL operation.

The SOAP action value is:

```

http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/FixupRow

```

The SOAP body contains the **FixupRow** element.

### 3.2.4.3.1.2 IAccessServiceSoap\_FixupRow\_OutputMessage

The response WSDL message for the **FixupRow** WSDL operation.

The SOAP body contains the **FixupRowResponse** element.

### 3.2.4.3.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

| Element          | Description   |
|------------------|---|
| FixupRow         | The input data for the <b>FixupRow</b> WSDL operation.  |
| FixupRowResponse | The result data for the <b>FixupRow</b> WSDL operation. |

#### 3.2.4.3.2.1 FixupRow

The input data for the **FixupRow** WSDL operation.

```
<xs:element name="FixupRow" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="parameter" type="tns1:CommandParameter"/>
      <xs:element minOccurs="0" maxOccurs="1" name="moniker" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="keys" type="tns1:ArrayOfKeyValuePair"/>
      <xs:element minOccurs="0" maxOccurs="1" name="values" type="tns1:ArrayOfKeyValuePair"/>
      <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="userCookieId" type="q1:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**parameter:** A **CommandParameter**, as specified in section [2.2.4.3](#). MUST be present.

**moniker:** A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies an identifier for a result set. MUST be present. MUST contain an identifier that was previously supplied during the session (2) as the **moniker** element for the input to a **GetObjectSchema** operation (section [3.2.4.7.2.1](#)).

**keys:** An **ArrayOfKeyValuePair** (section [2.2.4.2](#)) that specifies the row to operate on. MUST be present. MUST contain exactly one **KeyValuePair** (section [2.2.4.5](#)). The **Key** element of the **KeyValuePair** MUST contain a primary key value for a row in the result set.

**values:** An **ArrayOfKeyValuePair** (section [2.2.4.2](#)) that specifies the fields (3) and their new values which are to be used for the hypothetical update of the record identified by **keys** element. Each **Key** element specifies the name of a column in the result set, and the corresponding **Value** element contains the data for that column in the row.

- MUST be present.
- MUST contain at least one **KeyValuePair** (section [2.2.4.5](#)).
- For each **KeyValuePair**:
  - The **Key** element MUST be equal to the name of a column in the result set.

- The **Value** element MUST be the correct **data type** for the column in the result set.
- The **Value** element MUST either be empty and with the **nil** ([XMLSCHEMA2] section 2.6.2) attribute set to "true" or have the **type** ([XMLSCHEMA2] section 2.6.1) attribute set to one of the following:
  - **boolean** ([XMLSCHEMA2] section 3.2.2)
  - **datetime** ([XMLSCHEMA2] section 3.2.7)
  - **string** ([XMLSCHEMA2] section 3.2.1)
  - **int** ([XMLSCHEMA2] section 3.3.17)
  - **decimal** ([XMLSCHEMA2] section 3.2.3)
  - **double** ([XMLSCHEMA2] section 3.2.5)

**userCookieId:** A **guid** (section 2.2.5.5) that specifies an identifier for the operation. SHOULD be ignored by the protocol server.

### 3.2.4.3.2.2 FixupRowResponse

The result data for the **FixupRow** WSDL operation.

```
<xs:element name="FixupRowResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="FixupRowResult"
        type="tns1:CommandResult"/>
      <xs:element minOccurs="0" maxOccurs="1" name="tableXml" type="xs:string"/>
      <xs:element minOccurs="1" maxOccurs="1" name="totalRowCount" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**FixupRowResult:** A **CommandResult**, as specified in section 2.2.4.4. MUST be present.

**tableXml:** A **string** ([XMLSCHEMA2] section 3.2.1) that specifies **XML** containing the content of the returned row, as specified for the **tableXml** element of the **OpenResultSetResponse** element (section 3.2.4.10.2.2).

**totalRowCount:** MUST be "1".

### 3.2.4.3.3 Complex Types

None.

### 3.2.4.3.4 Simple Types

None.

### 3.2.4.3.5 Attributes

None.

### 3.2.4.3.6 Groups

None.

### 3.2.4.3.7 Attribute Groups

None.

### 3.2.4.4 GetData

This operation performs sort, filter, and synchronization operations on rows in the result set, and returns a subset of those rows.

```
<wsdl:operation name="GetData" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/GetData"
    message="tnsl:IAccessServiceSoap_GetData_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/GetDataResponse"
    message="tnsl:IAccessServiceSoap_GetData_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/GetDataAccessServerMessageFault"
    name="AccessServerMessageFault"
    message="tnsl:IAccessServiceSoap_GetData_AccessServerMessageFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IAccessServiceSoap\_GetData\_InputMessage** (section [3.2.4.4.1.1](#)) request message and the protocol server responds with an **IAccessServiceSoap\_GetData\_OutputMessage** (section [3.2.4.4.1.2](#)) response message as follows:

- The protocol server first executes any actions specified by the **cacheCommands** input element (section [3.2.4.4.2.1](#)), and refreshes the result set according to the **cacheCommands** values specified in section [3.2.4.4.4.1](#). Next, the protocol server returns a subset of the rows in the result set, as specified by the **startRowIndex** and **maximumRows** input elements (section [3.2.4.4.2.1](#)).
- The subset of rows returned is specified by **startRowIndex** and **maximumRows** as follows:
  - **maximumRows** MUST be greater than zero . If it is less than or equal to zero, a SOAP fault is returned, as specified in section [2.2.9](#).
  - If the **RetrieveImage** value is specified for **cacheCommands**, then the protocol server returns a single row specified by the **startRowIndex** from the result set. The row MUST have only fields (3) from the result set that contain image data.
  - If the **maximumRows** element is greater than zero and **startRowIndex** + **maximumRows** exceeds the number of rows in the result set, the protocol server returns all rows in the result set with indices greater than or equal to **startRowIndex**.

- Otherwise, the protocol server returns all rows in the result set with indices starting at **startRowIndex** and ending at **startRowIndex + maximumRows - 1**.
- In the event of an application error on the protocol server during this operation, a SOAP fault is returned, as specified in section [2.2.9](#). The **Id** element of the **AccessServerMessage** (section [2.2.4.1](#)) MUST be one of the values specified in section [2.2.9.1](#), or section [2.2.9.3](#), or one of the values from the following table.

| Identifier                                    | Description                           |
|---|---------------------------------------|
| <b>OrderingException_InvalidSpecification</b> | See section <a href="#">2.2.5.2</a> . |
| <b>OrderingException_InvalidColumnName</b>    | See section <a href="#">2.2.5.2</a> . |

### 3.2.4.4.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

| Message                                  | Description  |
|--|--|
| IAccessServiceSoap_GetData_InputMessage  | The request WSDL message for the <b>GetData</b> WSDL operation.  |
| IAccessServiceSoap_GetData_OutputMessage | The response WSDL message for the <b>GetData</b> WSDL operation. |

#### 3.2.4.4.1.1 IAccessServiceSoap\_GetData\_InputMessage

The request WSDL message for the **GetData** WSDL operation.

The SOAP action value is:

```
http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/GetData
```

The SOAP body contains the **GetData** element.

#### 3.2.4.4.1.2 IAccessServiceSoap\_GetData\_OutputMessage

The response WSDL message for the **GetData** WSDL operation.

The SOAP body contains the **GetDataResponse** element.

### 3.2.4.4.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

| Element         | Description  |
|-----------------|--|
| GetData         | The input data for the <b>GetData</b> WSDL operation.  |
| GetDataResponse | The result data for the <b>GetData</b> WSDL operation. |

### 3.2.4.4.2.1 GetData

The input data for the **GetData** WSDL operation.

```
<xs:element name="GetData" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="parameter" type="tns1:CommandParameter"/>
      <xs:element minOccurs="0" maxOccurs="1" name="moniker" type="xs:string"/>
      <xs:element minOccurs="1" maxOccurs="1" name="startRowIndex" type="xs:int"/>
      <xs:element minOccurs="1" maxOccurs="1" name="maximumRows" type="xs:int"/>
      <xs:element minOccurs="1" maxOccurs="1" name="cacheCommands"
type="tns1:CacheCommands"/>
      <xs:element minOccurs="0" maxOccurs="1" name="sortExpression" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="filter" type="tns1:FilterInfo"/>
      <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="userCookieId" type="q1:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**parameter:** A **CommandParameter**, as specified by section [2.2.4.3](#). MUST be present.

**moniker:** A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies an identifier for a result set. MUST be present. MUST contain an identifier that was previously supplied during the session (2) as the **moniker** element for the input to an **OpenResultSet** operation (section [3.2.4.10.2.1](#)).

**startRowIndex:** A **int** ([\[XMLSCHEMA2\]](#) section 3.3.17) that specifies the index of the first row to return from the result set.

- MUST be nonnegative.
- MUST be less than the total number of rows in the result set.

**maximumRows:** A **int** ([\[XMLSCHEMA2\]](#) section 3.3.17) that specifies the maximum number of rows to return.

- MUST be greater than zero.
- If **cacheCommands** contains **RetrieveImage**, MUST be "1".
- If **cacheCommands** contains **RefreshData**, MUST be "1".

**cacheCommands:** A **CacheCommands** (section [3.2.4.4.4.1](#)) that specifies a list of actions to perform on the result set. If both **ApplyFilter** and **ClearFilter** are specified, the protocol server MUST return a SOAP fault, as specified by section [3.2.4.4](#).

**sortExpression:** A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the sort order to apply to the result set. If **cacheCommands** contains **ApplySort**:

- MUST be present.
- MUST contain a **CT\_AdHocOrdering**, as specified by [\[MS-AXL2\]](#) section 2.2.3.5.

The protocol server MUST ignore this element if **cacheCommands** does not contain **ApplySort**.

**filter:** A **string** ([XMLSCHEMA2] section 3.2.1) that specifies the filter criteria to apply to the result set. If present, MUST be of type **FilterInfo** (section 2.2.4.10). The protocol server MUST ignore this element if **cacheCommands** does not contain **ApplyFilter**.

**userCookieId:** A **guid** (section 2.2.5.5) that specifies an identifier for the operation. MUST be present. SHOULD be ignored by the protocol server.

### 3.2.4.4.2 GetDataResponse

The result data for the **GetData** WSDL operation.

```
<xs:element name="GetDataResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="GetDataResult"
type="tns1:CommandResult"/>
      <xs:element minOccurs="0" maxOccurs="1" name="tableXml" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="aggregateValues"
type="tns1:ArrayOfAnyType"/>
      <xs:element minOccurs="1" maxOccurs="1" name="totalRowCount" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetDataResult:** A **CommandResult**, as specified in section 2.2.4.4. MUST be present.

**tableXml:** A **string** ([XMLSCHEMA2] section 3.2.1) that specifies XML containing the content of the returned rows, as specified for the **tableXml** element of the **OpenResultSetResponse** element (section 3.2.4.10.2.2).

**aggregateValues:** MUST NOT be used.

**totalRowCount:** A **int** ([XMLSCHEMA2] section 3.3.17) that specifies the number of rows in the **Source** (section 3.2.1.1), which was previously supplied as an input element to **GetObjectSchema** operation (section 3.2.4.7.2.1).

### 3.2.4.4.3 Complex Types

None.

### 3.2.4.4.4 Simple Types

The following table summarizes the XML schema simple type definitions that are specific to this operation.

| Simple type   | Description              |
|---------------|--------------------------|
| CacheCommands | See section 3.2.4.4.4.1. |

### 3.2.4.4.4.1 CacheCommands

**Namespace:**

http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/

The **CacheCommands** simple type is a list of enumeration values specifying operations to perform on the result set. If multiple values are specified, all of the specified operations MUST be performed, except for combinations prohibited by the table following the schema.

```
<xs:simpleType name="CacheCommands" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:list>
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:enumeration value="RefreshData"/>
        <xs:enumeration value="ApplyFilter"/>
        <xs:enumeration value="ClearFilter"/>
        <xs:enumeration value="ApplySort"/>
        <xs:enumeration value="RetrieveImage"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:list>
</xs:simpleType>
```

The following table specifies the allowable values for **CacheCommands**.

| Value         | Meaning   |
|---------------|---|
| RefreshData   | Refreshes the row specified by the <b>startRowIndex</b> element (section <a href="#">3.2.4.4.2.1</a> ) from <b>Source</b> (section <a href="#">3.2.1.1</a> ) which was previously supplied as input element to the <b>GetObjectSchema</b> operation (section <a href="#">3.2.4.7.2.1</a> ) that created the result set. |
| ApplyFilter   | Filters the result set as specified in the <b>filter</b> element (section <a href="#">3.2.4.4.2.1</a> ). The <b>ApplyFilter</b> value MUST NOT be present if <b>ClearFilter</b> is present.   |
| ClearFilter   | Removes any filtering applied to the result set. The <b>ClearFilter</b> value MUST NOT be present if <b>ApplyFilter</b> is present.   |
| ApplySort     | Sorts the result set as specified by the <b>sortExpression</b> element (section <a href="#">3.2.4.4.2.1</a> ).  |
| RetrieveImage | Returns the row specified by the <b>startRowIndex</b> element (section <a href="#">3.2.4.4.2.1</a> ) from the result set. The row MUST have only the fields (3) from the result set that contains Image data.   |

#### 3.2.4.4.5 Attributes

None.

#### 3.2.4.4.6 Groups

None.

#### 3.2.4.4.7 Attribute Groups

None.

#### 3.2.4.5 GetDistinctValues

This operation returns a single column from a result set with duplicate values removed.

```
<wsdl:operation name="GetDistinctValues" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
```



```

<wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/GetDistinctValues"
message="tns1:IAccessServiceSoap_GetDistinctValues_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/GetDistinctValuesResponse"
message="tns1:IAccessServiceSoap_GetDistinctValues_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
<wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/GetDistinctValuesAccessServerMessageFault"
name="AccessServerMessageFault"
message="tns1:IAccessServiceSoap_GetDistinctValues_AccessServerMessageFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends an **IAccessServiceSoap\_GetDistinctValues\_InputMessage** (section [3.2.4.5.1.1](#)) request message and the protocol server responds with an **IAccessServiceSoap\_GetDistinctValues\_OutputMessage** (section [3.2.4.5.1.2](#)) response message as follows:

- The protocol server returns a table consisting of a single column. Each row of the table contains a distinct value from the column specified by **columnName** in the result set specified by **moniker** in the **GetDistinctValues** element (section [3.2.4.5.2.1](#)).

In the event of an application error on the protocol server during this operation, a SOAP fault is returned, as specified in section [2.2.9](#). The **Id** element of the **AccessServerMessage** MUST be one of the values specified in section [2.2.9.1](#) or section [2.2.9.3](#).

### 3.2.4.5.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

| Message  | Description  |
|--|--|
| IAccessServiceSoap_GetDistinctValues_InputMessage  | The request WSDL message for the <b>GetDistinctValues</b> WSDL operation.  |
| IAccessServiceSoap_GetDistinctValues_OutputMessage | The response WSDL message for the <b>GetDistinctValues</b> WSDL operation. |

#### 3.2.4.5.1.1 IAccessServiceSoap\_GetDistinctValues\_InputMessage

The request WSDL message for the **GetDistinctValues** WSDL operation.

The SOAP action value is:

```

http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/GetDistinctValues

```

The SOAP body contains the **GetDistinctValues** element.

### 3.2.4.5.1.2 IAccessServiceSoap\_GetDistinctValues\_OutputMessage

The response WSDL message for the **GetDistinctValues** WSDL operation.

The SOAP body contains the **GetDistinctValuesResponse** element.

### 3.2.4.5.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

| Element                   | Description  |
|---------------------------|--|
| GetDistinctValues         | The input data for the <b>GetDistinctValues</b> WSDL operation.  |
| GetDistinctValuesResponse | The result data for the <b>GetDistinctValues</b> WSDL operation. |

#### 3.2.4.5.2.1 GetDistinctValues

The input data for the **GetDistinctValues** WSDL operation.

```
<xs:element name="GetDistinctValues" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="parameter" type="tns1:CommandParameter"/>
      <xs:element minOccurs="0" maxOccurs="1" name="moniker" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="columnName" type="xs:string"/>
      <xs:element minOccurs="1" maxOccurs="1" name="maximumRows" type="xs:int"/>
      <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="userCookieId" type="q1:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**parameter:** A **CommandParameter**, as specified in section [2.2.4.3](#). MUST be present.

**moniker:** A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies an identifier for a result set. MUST contain an identifier that was previously supplied during the session (2) as the **moniker** element for the input to an **OpenResultSet** operation (section [3.2.4.10.2.1](#)).

**columnName:** A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the name of the column to return values from. MUST be present. MUST be the name of a column in the result set identified by **moniker**.

**maximumRows:** A **int** ([\[XMLSCHEMA2\]](#) section 3.3.17) that specifies the maximum number of values to return. Zero means that there is no limit on the number of values to return. MUST NOT be less than zero.

**userCookieId:** A **guid** (section [2.2.5.5](#)) that specifies an identifier for the operation. SHOULD be ignored by the protocol server.

#### 3.2.4.5.2.2 GetDistinctValuesResponse

The result data for the **GetDistinctValues** WSDL operation.

```

<xs:element name="GetDistinctValuesResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="GetDistinctValuesResult"
type="tns1:CommandResult"/>
      <xs:element minOccurs="0" maxOccurs="1" name="tableXml" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**GetDistinctValuesResult:** A **CommandResult**, as specified in section [2.2.4.4](#). MUST be present.

**tableXml:** A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the XML containing the content of the returned rows, as specified for the **tableXml** element of the **OpenResultSetResponse** element (section [3.2.4.10.2.2](#)).

### 3.2.4.5.3 Complex Types

None.

### 3.2.4.5.4 Simple Types

None.

### 3.2.4.5.5 Attributes

None.

### 3.2.4.5.6 Groups

None.

### 3.2.4.5.7 Attribute Groups

None.

### 3.2.4.6 GetHealthScore

This operation returns information about the health of the protocol server.

```

<wsdl:operation name="GetHealthScore" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/GetHealthScore"
message="tns1:IAccessServiceSoap_GetHealthScore_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/GetHealthScoreResponse"
message="tns1:IAccessServiceSoap_GetHealthScore_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/GetHealthScoreAccessServerMessageFault"
name="AccessServerMessageFault"

```

```

message="tnsl:IAccessServiceSoap_GetHealthScore_AccessServerMessageFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends an **IAccessServiceSoap\_GetHealthScore\_InputMessage** (section [3.2.4.6.1.1](#)) request message and the protocol server responds with an **IAccessServiceSoap\_GetHealthScore\_OutputMessage** (section [3.2.4.6.1.2](#)) response message as follows:

- In the event of an application error on the protocol server during this operation, the protocol server MUST return a SOAP fault response. The **SOAP fault detail** MUST contain an **AccessServerMessage**, as specified by section [2.2.4.1](#), whose **Id** element MUST be Internal Error (section [2.2.5.2](#)).

### 3.2.4.6.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

| Message   | Description   |
|---|---|
| IAccessServiceSoap_GetHealthScore_InputMessage  | The request WSDL message for the <b>GetHealthScore</b> WSDL operation.  |
| IAccessServiceSoap_GetHealthScore_OutputMessage | The response WSDL message for the <b>GetHealthScore</b> WSDL operation. |

#### 3.2.4.6.1.1 IAccessServiceSoap\_GetHealthScore\_InputMessage

The request WSDL message for the **GetHealthScore** WSDL operation.

The SOAP action value is:

```

http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/GetHealthScore

```

The SOAP body contains the **GetHealthScore** element.

#### 3.2.4.6.1.2 IAccessServiceSoap\_GetHealthScore\_OutputMessage

The response WSDL message for the **GetHealthScore** WSDL operation.

The SOAP body contains the **GetHealthScoreResponse** element.

### 3.2.4.6.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

| Element                | Description   |
|------------------------|---|
| GetHealthScore         | The input data for the <b>GetHealthScore</b> WSDL operation.  |
| GetHealthScoreResponse | The result data for the <b>GetHealthScore</b> WSDL operation. |

### 3.2.4.6.2.1 GetHealthScore

The input data for the **GetHealthScore** WSDL operation.

```
<xs:element name="GetHealthScore" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType/>
</xs:element>
```

### 3.2.4.6.2.2 GetHealthScoreResponse

The result data for the **GetHealthScore** WSDL operation.

```
<xs:element name="GetHealthScoreResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="GetHealthScoreResult"
type="tns1:CommandResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetHealthScoreResult:** A **CommandResult**, as specified by section [2.2.4.4](#). **MUST** be present. The **HealthInformation** element of the **CommandResult** **MUST** be present.

### 3.2.4.6.3 Complex Types

None.

### 3.2.4.6.4 Simple Types

None.

### 3.2.4.6.5 Attributes

None.

### 3.2.4.6.6 Groups

None.

### 3.2.4.6.7 Attribute Groups

None.

### 3.2.4.7 GetObjectSchema

This operation retrieves metadata information of a **Source** (section [3.2.1.1](#)) in a database application, and returns the information to a protocol client.

```
<wsdl:operation name="GetObjectSchema" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/Webservices/AccessServ
erInternalService/IAccessServiceSoap/GetObjectSchema"
```

```

message="tnsl:IAccessServiceSoap_GetObjectSchema_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsd1"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap_GetObjectSchemaResponse"
message="tnsl:IAccessServiceSoap_GetObjectSchema_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsd1"/>
  <wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap_GetObjectSchemaAccessServerMessageFault"
name="AccessServerMessageFault"
message="tnsl:IAccessServiceSoap_GetObjectSchema_AccessServerMessageFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsd1"/>
</wsdl:operation>

```

The protocol client sends an **IAccessServiceSoap\_GetObjectSchema\_InputMessage** (section [3.2.4.7.1.1](#)) request message and the protocol server responds with an **IAccessServiceSoap\_GetObjectSchema\_OutputMessage** (section [3.2.4.7.1.2](#)) response message as follows:

- The protocol server retrieves information about all fields (3) of the **Source** in the database application. The information is returned in **FieldSchema** elements, as specified by section [3.2.4.7.3.2](#)
- This operation will create a new result set for a session (2), which was created during the operation **OpenSession** (section [3.2.4.11](#)).
- In the event of an application error on the protocol server during this operation, a SOAP fault is returned, as specified in section [2.2.9](#). The **Id** element of the **AccessServerMessage** MUST be one of the values specified in section [2.2.9.1](#), or section [2.2.9.3](#).

### 3.2.4.7.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

| Message  | Description  |
|--|--|
| IAccessServiceSoap_GetObjectSchema_InputMessage  | The request WSDL message for the <b>GetObjectSchema</b> WSDL operation.  |
| IAccessServiceSoap_GetObjectSchema_OutputMessage | The response WSDL message for the <b>GetObjectSchema</b> WSDL operation. |

#### 3.2.4.7.1.1 IAccessServiceSoap\_GetObjectSchema\_InputMessage

The request WSDL message for the **GetObjectSchema** WSDL operation.

The SOAP action value is:

```

http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/GetObjectSchema

```

The SOAP body contains the **GetObjectSchema** element.

### 3.2.4.7.1.2 IAccessServiceSoap\_GetObjectSchema\_OutputMessage

The response WSDL message for the **GetObjectSchema** WSDL operation.

The SOAP body contains the **GetObjectSchemaResponse** element.

### 3.2.4.7.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

| Element                 | Description  |
|-------------------------|--|
| GetObjectSchema         | The input data for the <b>GetObjectSchema</b> WSDL operation.  |
| GetObjectSchemaResponse | The result data for the <b>GetObjectSchema</b> WSDL operation. |

#### 3.2.4.7.2.1 GetObjectSchema

The input data for the **GetObjectSchema** WSDL operation.

```
<xs:element name="GetObjectSchema" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="parameter" type="tns1:CommandParameter"/>
      <xs:element minOccurs="0" maxOccurs="1" name="requestContext"
type="tns1:RequestContext"/>
      <xs:element minOccurs="0" maxOccurs="1" name="source" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="moniker" type="xs:string"/>
      <xs:element xmlns:q1="http://microsoft.com/wsd/types/" minOccurs="1" maxOccurs="1"
name="userCookieId" type="q1:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**parameter:** A **CommandParameter**, as specified by section [2.2.4.3](#). The **parameter** element MUST be present.

**requestContext:** A **RequestContext** (section [3.2.4.7.3.6](#)) that specifies information necessary for the protocol server to uniquely identify the database application. MUST be present.

**source:** A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the **Source** (section [3.2.1.1](#)) for which metadata is to be retrieved. The **Source** element MUST be present.

**moniker:** A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies a unique identifier for the result set within a session (2). The **moniker** element MUST be present.

**userCookieId:** A **guid** (section [2.2.5.5](#)) that specifies an identifier for the operation. SHOULD be ignored by the protocol server.

#### 3.2.4.7.2.2 GetObjectSchemaResponse

The result data for the **GetObjectSchema** WSDL operation.

```
<xs:element name="GetObjectSchemaResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
```

```

<xs:complexType>
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="1" name="GetObjectSchemaResult"
type="tns1:CommandResult"/>
    <xs:element minOccurs="0" maxOccurs="1" name="fieldSchemas"
type="tns1:ArrayOfFieldSchema"/>
  </xs:sequence>
</xs:complexType>
</xs:element>

```

**GetObjectSchemaResult:** A **CommandResult**, as specified by section [2.2.4.4](#). MUST be present.

**fieldSchemas:** An **ArrayOfFieldSchema** (section [3.2.4.7.3.1](#)) that specifies the metadata information about fields (3) of the **source** input element (section [3.2.4.7.2.1](#)). MUST be present.

### 3.2.4.7.3 Complex Types

The following table summarizes the XML schema complex type definitions that are specific to this operation.

| Complex type       | Description                               |
|--------------------|---|
| RequestContext     | See section <a href="#">3.2.4.7.3.6</a> . |
| ArrayOfFieldSchema | See section <a href="#">3.2.4.7.3.1</a> . |
| FieldSchema        | See section <a href="#">3.2.4.7.3.2</a>   |
| Expression         | See section <a href="#">3.2.4.7.3.3</a> . |
| ClientMessage      | See section <a href="#">3.2.4.7.3.4</a>   |
| ArrayOfInt         | See section <a href="#">3.2.4.7.3.5</a> . |

#### 3.2.4.7.3.1 ArrayOfFieldSchema

**Namespace:**

<http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/>

The **ArrayOfFieldSchema** complex type is a collection of fields (3) of a **Source** (section [3.2.1.1](#)).

```

<xs:complexType name="ArrayOfFieldSchema" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="FieldSchema" nillable="true"
type="tns1:FieldSchema"/>
  </xs:sequence>
</xs:complexType>

```

**FieldSchema:** A **FieldSchema** (section [3.2.4.7.3.2](#)) that specifies metadata information about a field (3) of a **Source** (section [3.2.1.1](#)). At least one **FieldSchema** MUST be present.



### 3.2.4.7.3.2 FieldSchema

#### Namespace:

http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/

The type **FieldSchema** stores all metadata information about a field (3) of a **Source** (section [3.2.1.1](#)).

```
<xs:complexType name="FieldSchema" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="1" name="ColumnName" type="xs:string"/>
    <xs:element minOccurs="0" maxOccurs="1" name="DataType" type="xs:string"/>
    <xs:element minOccurs="0" maxOccurs="1" name="DefaultValue" type="xs:string"/>
    <xs:element minOccurs="1" maxOccurs="1" name="IsKey" type="xs:boolean"/>
    <xs:element minOccurs="1" maxOccurs="1" name="Required" type="xs:boolean"/>
    <xs:element minOccurs="1" maxOccurs="1" name="ReadOnly" type="xs:boolean"/>
    <xs:element minOccurs="1" maxOccurs="1" name="MaxLength" type="xs:int"/>
    <xs:element minOccurs="0" maxOccurs="1" name="DefaultExpression" type="tns1:Expression"/>
    <xs:element minOccurs="0" maxOccurs="1" name="ValidationScript" type="xs:string"/>
    <xs:element minOccurs="0" maxOccurs="1" name="ValidationMessage" type="tns1:ClientMessage"/>
    <xs:element minOccurs="1" maxOccurs="1" name="KeyIndex" type="xs:int"/>
    <xs:element minOccurs="0" maxOccurs="1" name="SourceObject" type="xs:string"/>
    <xs:element minOccurs="0" maxOccurs="1" name="DependentFields" type="tns1:ArrayOfInt"/>
    <xs:element minOccurs="1" maxOccurs="1" name="AllowMultipleValues" type="xs:boolean"/>
    <xs:element minOccurs="0" maxOccurs="1" name="FormatString" type="xs:string"/>
    <xs:element minOccurs="0" maxOccurs="1" name="CurrencySymbol" type="xs:string"/>
    <xs:element minOccurs="1" maxOccurs="1" name="DecimalPlaces" type="xs:int"/>
    <xs:element minOccurs="0" maxOccurs="1" name="TextType" type="xs:string"/>
    <xs:element minOccurs="1" maxOccurs="1" name="IsTableQueryLookup" type="xs:boolean"/>
    <xs:element minOccurs="0" maxOccurs="1" name="LookupSource" type="xs:string"/>
    <xs:element minOccurs="0" maxOccurs="1" name="LookupBoundField" type="xs:string"/>
    <xs:element minOccurs="0" maxOccurs="1" name="LookupDisplayField" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
```

**ColumnName:** A **string** ([XMLSCHEMA2](#) section 3.2.1) that specifies the name of the field (3). **MUST** be present.

**DataType:** A **string** ([XMLSCHEMA2](#) section 3.2.1) that specifies the data type of the field (3). **MUST** be present. **MUST** be either of these values.

- "Bit"
- "Decimal"
- "Float"
- "Int"
- "NVarChar"
- "VarBinary"
- "Variant"
- "DateTime2"

**DefaultValue:** A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the default value of the field (3). The value **MUST** be in the same data type as specified by **DataType**. **MUST** be present.

**IsKey:** A **boolean** ([\[XMLSCHEMA2\]](#) section 3.2.2) that specifies whether the field (3) is a primary key.

**Required:** A **boolean** ([\[XMLSCHEMA2\]](#) section 3.2.2) that specifies whether the field (3) is required to have data. A value of "false" specifies that the field (3) can contain NULL values.

**ReadOnly:** A **boolean** ([\[XMLSCHEMA2\]](#) section 3.2.2) that specifies whether the data in the field (3) is read-only. A value of "true" specifies that the data cannot be changed.

**MaxLength:** An **int** ([\[XMLSCHEMA2\]](#) section 3.3.17) that specifies the maximum size of the field (3). If **DataType** is "NVaChar", the size is in characters, otherwise the size is in bytes. A value of -1 specifies that the field (3) does not have a maximum length.

**DefaultExpression:** An **Expression** (section [3.2.4.7.3.3](#)) that specifies the default value of the field (3). **MUST** be empty.

**ValidationScript:** **MUST NOT** be used.

**ValidationMessage:** A **ClientMessage** (section [3.2.4.7.3.4](#)) that specifies an error or informative message returned by the protocol server. **MUST** be present.

**KeyIndex:** An **int** ([\[XMLSCHEMA2\]](#) section 3.3.17) that specifies the index of the primary key field (3). **MUST** be "-1".

**SourceObject:** **MUST NOT** be used.

**DependentFields:** An **ArrayOfInt** (section [3.2.4.7.3.5](#)) that specifies the indices of all fields (3) which are dependent on this field (3). **MUST** be present.

**AllowMultipleValues:** **MUST NOT** be used.

**FormatString:** A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the format string of the field (3). **MUST** be present. **MUST** be one of the following values:

- "General Number"
- "Currency"
- "Fixed"
- "Standard"
- "Percent"
- "General Date"
- "Long Date"
- "Short Date"
- "Long Time"
- "Short Date"

**CurrencySymbol:** A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the currency symbol of the field (3). **MUST** be present.

**DecimalPlaces:** A **int** ([\[XMLSCHEMA2\]](#) section 3.3.17) that specifies the decimal places of the field (3). MUST NOT be used.

**TextType:** A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the text type of the field (3). MUST NOT be present if **DataType** is not "NVarchar"; otherwise, MUST be one of the following values:

- "SingleLine"
- "MultiLine"
- "HyperLink"

**IsTableQueryLookup:** A **boolean** ([\[XMLSCHEMA2\]](#) section 3.2.2) that specifies if this field (3) is a **lookup field**.

**LookupSource:** A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the **ReferencedTable** ([\[MS-AXL2\]](#) section 2.2.2.17) of this field (3). MUST be used only if this field (3) is a lookup field.

**LookupBoundField:** A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the **BoundColumn** ([\[MS-AXL2\]](#) section 2.2.2.5) of this field (3). MUST be used only if this field (3) is a lookup field.

**LookupDisplayField:** A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the **DisplayColumn** ([\[MS-AXL2\]](#) section 2.2.2.10) of this field (3). MUST be used only if this field (3) is a lookup field.

### 3.2.4.7.3.3 Expression

#### Namespace:

<http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/>

Specifies an **expression**.

```
<xs:complexType name="Expression" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="1" name="ExpressionScript" type="xs:string"/>
    <xs:element minOccurs="0" maxOccurs="1" name="ReferencesFunction" type="xs:string"/>
    <xs:element minOccurs="0" maxOccurs="1" name="Properties" type="tns:ArrayOfAnyType"/>
    <xs:element minOccurs="1" maxOccurs="1" name="ServerExpression" type="xs:boolean"/>
    <xs:element minOccurs="0" maxOccurs="1" name="OriginalExpression" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
```

**ExpressionScript:** A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the **JSON** representation of an expression. MUST be specified. The value MUST conform to the following ABNF grammar ([\[RFC5234\]](#)):

```
ExpressionScript =
  "Access.AccessApplication.GenerateAxlFromJson({{'Type':'FunctionCall','Value':'" function-
  name "', 'Arguments':[" argument-list "}})"

argument-list = argument / (argument "," argument-list)

argument = "{{'Type':'" argument-name "', 'Value':'" argument-value "'}}"
```

**function-name** specifies the name of a function. MUST be a valid value for the **Name** attribute of **CT\_FunctionCall**, as specified by [\[MS-AXL2\]](#) section 2.2.3.46.

**argument-name** specifies the name of an argument to the function. MUST be a valid value for the **Name** attribute specified by [\[MS-AXL2\]](#) section 2.2.5.2.

**argument-value** specifies the value of an argument.

**ReferencesFunction**: A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the name of a function. MUST match **function-name** in **ExpressionScript**.

**Properties**: An **ArrayOfAnyType** (section [2.2.4.9](#)). MUST be ignored.

**ServerExpression**: A **boolean** ([\[XMLSCHEMA2\]](#) section 3.2.2) that specifies whether the expression is to be evaluated by the protocol server.

**OriginalExpression**: A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the expression exactly as the user entered it. MUST be omitted if the expression did not originate from user input.

#### 3.2.4.7.3.4 ClientMessage

**Namespace:**

<http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/>

Specifies an error or informative message to return to the protocol server.

```
<xs:complexType name="ClientMessage" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="1" maxOccurs="1" name="MessageID" type="tns1:ClientMessageID"/>
    <xs:element minOccurs="0" maxOccurs="1" name="Context" type="tns1:ArrayOfAnyType"/>
  </xs:sequence>
</xs:complexType>
```

**MessageID**: A **ClientMessageID** (section [3.2.4.7.4.1](#)) that specifies an identifier that the protocol server assumes is associated with a string.

**Context**: An **ArrayOfAnyType** (section [2.2.4.9](#)) that specifies context information about the message. If the string assumed to be associated with the **MessageID** contains numbered placeholders, that is, a number surrounded by {} characters, the protocol server MUST include a contextual string for each different placeholder, such that the first **anyType** subelement corresponds to the placeholder "{0}", the second **anyType** subelement corresponds to the placeholder "{1}", and so on. The protocol server assumes that the protocol client replaces each placeholder with a string that represents the value of the corresponding **anyType** subelement.

#### 3.2.4.7.3.5 ArrayOfInt

**Namespace:**

<http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/>

The **ArrayOfInt** type is an **array of int** type.

```
<xs:complexType name="ArrayOfInt" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="int" type="xs:int"/>
  </xs:sequence>
</xs:complexType>
```

```
</xs:sequence>
</xs:complexType>
```

**int:** An integer type.

### 3.2.4.7.3.6 RequestContext

**Namespace:**

http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/

Specifies information necessary for the protocol server to uniquely identify the database application.

```
<xs:complexType name="RequestContext" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="1" name="Url" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
```

**Url:** A string ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the **fully qualified URL** to the database application. **MUST** be present.

### 3.2.4.7.4 Simple Types

The following table summarizes the XML schema simple type definitions that are specific to this operation.

| Simple type     | Description                               |
|-----------------|---|
| ClientMessageID | See section <a href="#">3.2.4.7.4.1</a> . |

#### 3.2.4.7.4.1 ClientMessageID

**Namespace:**

http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/

Specifies a message identifier. For each identifier except **None**, the protocol server assumes that the protocol client associates a string with each message identifier that is similar to the corresponding entry in the following table. [<1>](#)

```
<xs:simpleType name="ClientMessageID" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:restriction base="xs:string">
    <xs:enumeration value="None"/>
    <xs:enumeration value="PassthroughMessage"/>
    <xs:enumeration value="WebServiceUnavailableMessage"/>
    <xs:enumeration value="WebServiceCanceledMessage"/>
    <xs:enumeration value="DataMacroStopWaiting"/>
    <xs:enumeration value="GenericError"/>
    <xs:enumeration value="NotifyRecordUpdated"/>
    <xs:enumeration value="NotifyRecordsDeleted"/>
    <xs:enumeration value="NotifyCannotDelete"/>
    <xs:enumeration value="NotifyCannotSave"/>
    <xs:enumeration value="NotifyCannotSaveDescription"/>
  </xs:restriction>
</xs:simpleType>
```

```

<xs:enumeration value="SubFormNestingLimitExceededError"/>
<xs:enumeration value="DivisionByZero"/>
<xs:enumeration value="TypeMismatch"/>
<xs:enumeration value="NoCurrentRecord"/>
<xs:enumeration value="RecordNotUpdatable"/>
<xs:enumeration value="WhereConditionTooLong"/>
<xs:enumeration value="InvalidArgument"/>
<xs:enumeration value="InvalidContainerControlName"/>
<xs:enumeration value="ActionArgumentNotFound"/>
<xs:enumeration value="FormCannotClose"/>
<xs:enumeration value="AttachmentMustSave"/>
<xs:enumeration value="InvalidExpression"/>
<xs:enumeration value="AttachmentUploadSucceed"/>
<xs:enumeration value="AttachmentDeleted"/>
<xs:enumeration value="FormOrReportNotBound"/>
<xs:enumeration value="InvalidPropertyOrMethod"/>
<xs:enumeration value="InvalidUrl"/>
<xs:enumeration value="UserInterfaceMacroLoadFailure"/>
<xs:enumeration value="CannotFindMacroObject"/>
<xs:enumeration value="CannotGoToSpecifiedRecord"/>
<xs:enumeration value="InvalidConditionExpression"/>
<xs:enumeration value="CannotGoToSubformOrTabPage"/>
<xs:enumeration value="InvalidControl"/>
<xs:enumeration value="CannotFocusOnControl"/>
<xs:enumeration value="InvalidControlValue"/>
<xs:enumeration value="NoControlName"/>
<xs:enumeration value="CannotFindErrorHandlerMacro"/>
<xs:enumeration value="InvalidSetPropertyControl"/>
<xs:enumeration value="LocalVarNameNotSpecified"/>
<xs:enumeration value="LocalVarExpressionNotSpecified"/>
<xs:enumeration value="LocalVariableNameInvalid"/>
<xs:enumeration value="TempVarNameNotSpecified"/>
<xs:enumeration value="TempVariableNameInvalid"/>
<xs:enumeration value="CommandNotAvailable"/>
<xs:enumeration value="ExpressionErrorCannotSet"/>
<xs:enumeration value="TooManyRunMacros"/>
<xs:enumeration value="InvalidBrowseToPathArgument"/>
<xs:enumeration value="InvalidObjectReference"/>
<xs:enumeration value="FormNotFoundRep"/>
<xs:enumeration value="ControlDoesNotSupportRequery"/>
<xs:enumeration value="ReadOnlyNote"/>
<xs:enumeration value="TooMuchParameterData"/>
<xs:enumeration value="OperationNotSupportedOnSubReports"/>
<xs:enumeration value="ExpressionErrorInfo"/>
<xs:enumeration value="InvalidPropertyValue"/>
<xs:enumeration value="AutocompleteWaitingForValidationMessage"/>
<xs:enumeration value="AutocompleteInvalidDataMessage"/>
<xs:enumeration value="TooManyTermsInFilter"/>
<xs:enumeration value="InvalidValueForFieldMessage"/>
<xs:enumeration value="InvalidValueForControlMessage"/>
<xs:enumeration value="ImageUploadFailureNotificationMessage"/>
<xs:enumeration value="NoResultsFromFilter"/>
<xs:enumeration value="ErrorRetrievingDataForComboBoxMessage"/>
<xs:enumeration value="ExpressionImplicitConversionInvalid"/>
</xs:restriction>
</xs:simpleType>

```

The following table specifies the allowable values for **ClientMessageID**.

| <b>Value</b>                     | <b>Meaning</b>   |
|----------------------------------|--|
| None                             | No message.  |
| PassthroughMessage               | "{0}"  |
| WebServiceUnavailableMessage     | "This service is not currently available."   |
| WebServiceCanceledMessage        | "The operation was canceled."  |
| DataMacroStopWaiting             | "The operation will continue to run in the background."  |
| GenericError                     | "An error occurred."   |
| NotifyRecordUpdated              | "Changes saved."   |
| NotifyRecordsDeleted             | "Item(s) deleted"  |
| NotifyCannotDelete               | "Rows cannot be deleted while other changes are still processing."   |
| NotifyCannotSave                 | "Record not saved."  |
| NotifyCannotSaveDescription      | "Hang on, we can't save until you fix the problems below."   |
| SubFormNestingLimitExceededError | "Parts of this form cannot be displayed because the form uses more than seven levels of nested subforms."            |
| DivisionByZero                   | "Division by zero."  |
| TypeMismatch                     | "Type mismatch."   |
| NoCurrentRecord                  | "No current record."   |
| RecordNotUpdatable               | "Record cannot be updated."  |
| WhereConditionTooLong            | "This form could not be loaded. The OpenForm macro action failed because the Where Condition argument was too long." |
| InvalidArgument                  | "Invalid argument '{0}'."  |
| InvalidContainerControlName      | "The '{0}' action requires a valid control name that corresponds to a subform or subreport."                         |
| ActionArgumentNotFound           | "The action or method requires an argument: {0}"   |
| FormCannotClose                  | "You can't save this record at this time."   |
| AttachmentMustSave               | "You must save this record before adding any attachments."   |
| InvalidExpression                | "Invalid expression."  |
| AttachmentUploadSucceed          | "The file has been successfully uploaded."   |
| AttachmentDeleted                | "File deleted."  |
| FormOrReportNotBound             | "The action or method is not valid because the form or report is not bound to a table or query."                     |
| InvalidPropertyOrMethod          | "Sorry, you found a glitch."   |

| Value                          | Meaning   |
|--------------------------------|---|
| InvalidUrl                     | "The webpage cannot be displayed. The hyperlink may be invalid."  |
| UserInterfaceMacroLoadFailure  | "The macro '{0}' is not available."   |
| CannotFindMacroObject          | "Cannot find the object '{0}'."   |
| CannotGoToSpecifiedRecord      | "You cannot go to the specified record. You may be on the last record."   |
| InvalidConditionExpression     | "Invalid condition expression."   |
| CannotGoToSubformOrTabPage     | "The GoToControl macro action cannot be used to go to a subform control or tab page in Web forms."  |
| InvalidControl                 | "There is no field named '{0}' in the current record."  |
| CannotFocusOnControl           | "Can't move the focus to the control '{0}'."  |
| InvalidControlValue            | "The value you entered isn't valid for this field."   |
| NoControlName                  | "The action or method requires a Control Name argument."  |
| CannotFindErrorHandlingMacro   | "Can't find the macro '{0}' in the macro group '{1}'."  |
| InvalidSetPropertyControl      | "The control name '{0}' is misspelled or refers to a control that doesn't exist."   |
| LocalVarNameNotSpecified       | "You must specify a name for the local variable."   |
| LocalVarExpressionNotSpecified | "You must specify a value for the local variable."  |
| LocalVariableNameInvalid       | "Local variable names must be less than or equal to 64 characters in length, may not start with an equal sign or a space, and may not contain any of the following characters: CR, LF or TAB: .![]/\.:*? "<> #{}%~&." |
| TempVarNameNotSpecified        | "You must specify a name for the temporary variable."   |
| TempVariableNameInvalid        | "The name of this TempVar is too long. TempVar names must less than 256 characters."  |
| CommandNotAvailable            | "The command or action isn't currently available: {0}."   |
| ExpressionErrorCannotSet       | "You can't assign a value to this object."  |
| TooManyRunMacros               | "Macros can only be called 19 times. Your macro contains one or more RunMacro actions that calls a macro more than 19 times. Use an If block to stop the macro after it has been run 19 times."                       |
| InvalidBrowseToPathArgument    | "The BrowseTo macro action contains an invalid Path argument. The Path argument must be of the form: MainForm1.Subform1 > Form1.Subform1."  |
| InvalidObjectReference         | "The object doesn't contain the object '{0}'."  |
| FormNotFoundRep                | "The report name '{0}' you entered in either the property sheet or macro is misspelled or refers to a report that   |



| Value                                   | Meaning   |
|---|---|
|   | doesn't exist."   |
| ControlDoesNotSupportRequery            | "The Requery action can't be used on the control '{0}'."  |
| ReadOnlyNote                            | "This field cannot be edited because the underlying field '{0}' is read-only."  |
| TooMuchParameterData                    | "You have exceeded the amount of parameter data that can be passed to the report."  |
| OperationNotSupportedOnSubReports       | "The '{0}' action failed because the referenced control contains a report object. {0} on subform controls can only be used when they contain form objects." |
| ExpressionErrorInfo                     | "The expression returned an error."   |
| InvalidPropertyValue                    | "'{0}' is an invalid value for property {1}. The valid values for this property are: {2}."  |
| AutocompleteWaitingForValidationMessage | "Validating Data..."  |
| AutocompleteInvalidDataMessage          | "Invalid Data"  |
| TooManyTermsInFilter                    | "Your search is too complex. The results may show more data than you intended."   |
| InvalidValueForFieldMessage             | "The value that you entered is not valid for the {0} field."  |
| InvalidValueForControlMessage           | "The value that you entered is not valid for the {0} control."  |
| ImageUploadFailureNotificationMessage   | "Record saved, but image failed to upload: {0}"   |
| NoResultsFromFilter                     | "No matches found."   |
| ErrorRetrievingDataForComboBoxMessage   | "Failure retrieving option data for ComboBox/Autocomplete"  |
| ExpressionImplicitConversionInvalid     | "An expression contains an implicit conversion from one data type to another, but that conversion is invalid."  |

#### 3.2.4.7.5 Attributes

None.

#### 3.2.4.7.6 Groups

None.

#### 3.2.4.7.7 Attribute Groups

None.

#### 3.2.4.8 InsertData

This operation inserts a record into a table in the database application and also inserts a row into the result set.

```

<wsdl:operation name="InsertData" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/InsertData"
    message="tns1:IAccessServiceSoap_InsertData_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/InsertDataResponse"
    message="tns1:IAccessServiceSoap_InsertData_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/InsertDataAccessServerMessageFault"
    name="AccessServerMessageFault"
    message="tns1:IAccessServiceSoap_InsertData_AccessServerMessageFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends an **IAccessServiceSoap\_InsertData\_InputMessage** (section [3.2.4.8.1.1](#)) request message and the protocol server responds with an **IAccessServiceSoap\_InsertData\_OutputMessage** (section [3.2.4.8.1.2](#)) response message as follows:

- The protocol server adds a new record into the **Updatable Source** of the database application (section [3.2.1](#)) with the fields (3) of the record filled in as specified by the **values** element in the **InsertData** element (section [3.2.4.8.2.1](#)).
- If the record was successfully inserted, the protocol server retrieves the inserted record from the database application and adds a row to the result set with a primary key equal to the primary key of the record, and with its columns filled in as specified by the corresponding columns of the retrieved record. The protocol server then returns the newly added row to the protocol client.

In the event of an application error on the protocol server during this operation, a SOAP fault is returned, as specified by section [2.2.9](#). The **Id** element of the **AccessServerMessage** MUST be one of the values specified by section [2.2.9.1](#), one of the values specified by section [2.2.9.3](#), or one of the values specified in the following table.

| Identifier                              | Description                           |
|---|---------------------------------------|
| WriteRecordsPermissionsFailure          | See section <a href="#">2.2.5.2</a> . |
| DataException_DataOperationFailed       | See section <a href="#">2.2.5.2</a> . |
| DataException_MaxRecordsInTableExceeded | See section <a href="#">2.2.5.2</a> . |

### 3.2.4.8.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

| Message                                     | Description  |
|---|--|
| IAccessServiceSoap_InsertData_InputMessage  | The request WSDL message for the <b>InsertData</b> WSDL operation. |
| IAccessServiceSoap_InsertData_OutputMessage | The response WSDL message for the <b>InsertData</b>                |

| Message | Description     |
|---------|-----------------|
|         | WSDL operation. |

### 3.2.4.8.1.1 IAccessServiceSoap\_InsertData\_InputMessage

The request WSDL message for the **InsertData** WSDL operation.

The SOAP action value is:

```
http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/InsertData
```

The SOAP body contains the **InsertData** element.

### 3.2.4.8.1.2 IAccessServiceSoap\_InsertData\_OutputMessage

The response WSDL message for the **InsertData** WSDL operation.

The SOAP body contains the **InsertDataResponse** element.

### 3.2.4.8.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

| Element            | Description   |
|--------------------|---|
| InsertData         | The input data for the <b>InsertData</b> WSDL operation.  |
| InsertDataResponse | The result data for the <b>InsertData</b> WSDL operation. |

#### 3.2.4.8.2.1 InsertData

The input data for the **InsertData** WSDL operation.

```
<xs:element name="InsertData" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="parameter" type="tns1:CommandParameter"/>
      <xs:element minOccurs="0" maxOccurs="1" name="moniker" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="values" type="tns1:ArrayOfKeyValuePair"/>
      <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="userCookieId" type="q1:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**parameter:** A **CommandParameter**, as specified in section [2.2.4.3](#). MUST be present.

**moniker:** A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies an identifier for a result set. MUST be present. MUST contain an identifier that was previously supplied during the session (2) as the **moniker** element for the input to a **GetObjectSchema** operation (section [3.2.4.7.2.1](#)).

**values:** An **ArrayOfKeyValuePair** (section [2.2.4.5](#)) that specifies the fields (3) and their new values which are to be inserted in a new record. Each **Key** element specifies the name of a column in the result set, and the corresponding **Value** element contains the data for that column in the new row.

- MUST be present.
- MUST contain at least one **KeyValuePair** (section [2.2.4.5](#)).
- For each **KeyValuePair**:
  - The **Key** element MUST be equal to the name of a column in the result set.
  - The **Value** element MUST be the correct data type for the column in the result set.
  - The **Value** element MUST either be empty and with the **nil** ([\[XMLSCHEMA2\]](#) section 2.6.2) attribute set to "true" or have the **type** ([\[XMLSCHEMA2\]](#) section 2.6.1) attribute set to one of the following:
    - **boolean** ([\[XMLSCHEMA2\]](#) section 3.2.2)
    - **datetime** ([\[XMLSCHEMA2\]](#) section 3.2.7)
    - **string** ([\[XMLSCHEMA2\]](#) section 3.2.1)
    - **int** ([\[XMLSCHEMA2\]](#) section 3.3.17)
    - **decimal** ([\[XMLSCHEMA2\]](#) section 3.2.3)
    - **double** ([\[XMLSCHEMA2\]](#) section 3.2.5)

**userCookieId:** A **guid** (section [2.2.5.5](#)) that specifies an identifier for the operation. MUST be present. SHOULD be ignored by the protocol server.

### 3.2.4.8.2.2 InsertDataResponse

The result data for the **InsertData** WSDL operation.

```
<xs:element name="InsertDataResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="InsertDataResult"
type="tns1:CommandResult"/>
      <xs:element minOccurs="0" maxOccurs="1" name="insertedRowsXml" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**InsertDataResult:** A **CommandResult**, as specified by section [2.2.4.4](#). MUST be present.

**insertedRowsXml:** A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the XML containing the content of the returned row, as specified for the **tableXml** element of the **OpenResultSetResponse** element (section [3.2.4.10.2.2](#)).

### 3.2.4.8.3 Complex Types

None.

#### 3.2.4.8.4 Simple Types

None.

#### 3.2.4.8.5 Attributes

None.

#### 3.2.4.8.6 Groups

None.

#### 3.2.4.8.7 Attribute Groups

None.

#### 3.2.4.9 KeepAlive

This operation extends the time a session (2) has remaining before it times out.

```
<wsdl:operation name="KeepAlive" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/KeepAlive"
    message="tns1:IAccessServiceSoap_KeepAlive_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/KeepAliveResponse"
    message="tns1:IAccessServiceSoap_KeepAlive_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/KeepAliveAccessServerMessageFault"
    name="AccessServerMessageFault"
    message="tns1:IAccessServiceSoap_KeepAlive_AccessServerMessageFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IAccessServiceSoap\_KeepAlive\_InputMessage** (section [3.2.4.9.1.1](#)) request message and the protocol server responds with an **IAccessServiceSoap\_KeepAlive\_OutputMessage** (section [3.2.4.9.1.2](#)) response message as follows:

- The protocol server resets the time remaining for the session (2) specified in the **WorkbookId** element in the **parameter** element in the **KeepAlive** element (section [3.2.4.9.2.1](#)) to its original timeout value, as specified by section [3.2.2](#).
- In the event of an application error on the protocol server during this operation, a SOAP fault is returned, as specified in section [2.2.9](#). The **Id** element of the **AccessServerMessage** (section [2.2.4.1](#)) MUST be one of the values specified in section [2.2.9.1](#).

#### 3.2.4.9.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

| Message                                    | Description  |
|--|--|
| IAccessServiceSoap_KeepAlive_InputMessage  | The request WSDL message for the <b>KeepAlive</b> WSDL operation.  |
| IAccessServiceSoap_KeepAlive_OutputMessage | The response WSDL message for the <b>KeepAlive</b> WSDL operation. |

### 3.2.4.9.1.1 IAccessServiceSoap\_KeepAlive\_InputMessage

The request WSDL message for the **KeepAlive** WSDL operation.

The SOAP action value is:

```
http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/KeepAlive
```

The SOAP body contains the **KeepAlive** element.

### 3.2.4.9.1.2 IAccessServiceSoap\_KeepAlive\_OutputMessage

The response WSDL message for the **KeepAlive** WSDL operation.

The SOAP body contains the **KeepAliveResponse** element.

### 3.2.4.9.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

| Element           | Description  |
|-------------------|--|
| KeepAlive         | The input data for the <b>KeepAlive</b> WSDL operation.  |
| KeepAliveResponse | The result data for the <b>KeepAlive</b> WSDL operation. |

### 3.2.4.9.2.1 KeepAlive

The input data for the **KeepAlive** WSDL operation.

```
<xs:element name="KeepAlive" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="parameter" type="tns1:CommandParameter"/>
      <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="userCookieId" type="q1:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**parameter:** A **CommandParameter**, as specified in section [2.2.4.3](#). MUST be present.

**userCookieId:** A **guid** (section [2.2.5.5](#)) that specifies an identifier for the operation. SHOULD be ignored by the protocol server.

### 3.2.4.9.2.2 KeepAliveResponse

The result data for the **KeepAlive** WSDL operation.

```
<xs:element name="KeepAliveResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="KeepAliveResult"
        type="tns1:CommandResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**KeepAliveResult:** A **CommandResult**, as specified by section [2.2.4.4](#). MUST be present.

### 3.2.4.9.3 Complex Types

None.

### 3.2.4.9.4 Simple Types

None.

### 3.2.4.9.5 Attributes

None.

### 3.2.4.9.6 Groups

None.

### 3.2.4.9.7 Attribute Groups

None.

### 3.2.4.10 OpenResultSet

This operation opens a result set for the given **Source** (section [3.2.1.1](#)) and returns a subset of rows from the result set.

```
<wsdl:operation name="OpenResultSet" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/OpenResultSet"
    message="tns1:IAccessServiceSoap_OpenResultSet_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/OpenResultSetResponse"
    message="tns1:IAccessServiceSoap_OpenResultSet_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/OpenResultSetAccessServerMessageFault"
    name="AccessServerMessageFault"/>
```

```

message="tnsl:IAccessServiceSoap_OpenResultSet_AccessServerMessageFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsd1"/>
</wsdl:operation>

```

The protocol client sends an **IAccessServiceSoap\_OpenResultSet\_InputMessage** (section [3.2.4.10.1.1](#)) request message and the protocol server responds with an **IAccessServiceSoap\_OpenResultSet\_OutputMessage** (section [3.2.4.10.1.2](#)) response message as follows:

- The protocol server retrieves data from the given **Source** of the database application, which was previously supplied as an input element to the **GetObjectSchema** (section [3.2.4.7.2.1](#)) operation. Only the fields (3) that are specified by **fields** input element in section [3.2.4.10.2.1](#) are retrieved. The data is filtered according to the **filter** and **restriction** input elements (section [3.2.4.10.2.1](#)). The protocol server also sorts the data according to expressions defined by **sortExpression** input element (section [3.2.4.10.2.1](#)).
- The protocol server stores the data in a result set identified by the **moniker** input element (section [3.2.4.10.2.1](#)) within the session (2) identified by the **WorkbookId** element of the **parameter** input element (section [3.2.4.10.2.1](#)) in the request message.
- The protocol server returns a subset of rows specified by **startRowIndex** and **maximumRows** input elements (section [3.2.4.10.2.1](#)) as follows:
  - **maximumRows** MUST be greater than zero ("0"). If it is less than or equal to zero, a SOAP fault is returned, as specified in section [2.2.9](#).
  - If the **maximumRows** element is greater than zero and **startRowIndex** + **maximumRows** exceeds the number of rows in the result set, the protocol server returns all rows in the result set with indices greater than or equal to **startRowIndex**.
  - Otherwise, the protocol server returns all rows in the result set with indices starting at **startRowIndex** and ending at **startRowIndex** + **maximumRows** - 1.
- In the event of an application error on the protocol server during this operation, a SOAP fault is returned, as specified in section [2.2.9](#). The **Id** element of the **AccessServerMessage** (section [2.2.4.1](#)) MUST be one of the values specified in section [2.2.9.1](#), one of the values specified in section [2.2.9.2](#), one of the values specified in section [2.2.9.3](#), or one of the values in the following table.

| Identifier                             | Description                           |
|--|---------------------------------------|
| GetRecordsPermissionsFailure           | See section <a href="#">2.2.5.2</a> . |
| OrderingException_InvalidSpecification | See section <a href="#">2.2.5.2</a> . |
| OrderingException_InvalidColumnName    | See section <a href="#">2.2.5.2</a> . |
| InvalidFilterExpression                | See section <a href="#">2.2.5.2</a> . |

### 3.2.4.10.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.



| Message  | Description  |
|--|--|
| IAccessServiceSoap_OpenResultSet_InputMessage  | The request WSDL message for the <b>OpenResultSet</b> WSDL operation.  |
| IAccessServiceSoap_OpenResultSet_OutputMessage | The response WSDL message for the <b>OpenResultSet</b> WSDL operation. |

### 3.2.4.10.1.1 IAccessServiceSoap\_OpenResultSet\_InputMessage

The request WSDL message for the **OpenResultSet** WSDL operation.

The SOAP action value is:

```
http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/OpenResultSet
```

The SOAP body contains the **OpenResultSet** element.

### 3.2.4.10.1.2 IAccessServiceSoap\_OpenResultSet\_OutputMessage

The response WSDL message for the **OpenResultSet** WSDL operation.

The SOAP body contains the **OpenResultSetResponse** element.

### 3.2.4.10.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

| Element               | Description  |
|-----------------------|--|
| OpenResultSet         | The input data for the <b>OpenResultSet</b> WSDL operation.  |
| OpenResultSetResponse | The result data for the <b>OpenResultSet</b> WSDL operation. |

### 3.2.4.10.2.1 OpenResultSet

The input data for the **OpenResultSet** WSDL operation.

```
<xs:element name="OpenResultSet" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="parameter" type="tnsl:CommandParameter"/>
      <xs:element minOccurs="0" maxOccurs="1" name="fields" type="tnsl:FieldList"/>
      <xs:element minOccurs="0" maxOccurs="1" name="restriction" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="queryParameters"
        type="tnsl:ArrayOfKeyValuePair"/>
      <xs:element minOccurs="0" maxOccurs="1" name="sortExpression" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="filter" type="tnsl:FilterInfo"/>
      <xs:element minOccurs="0" maxOccurs="1" name="moniker" type="xs:string"/>
      <xs:element minOccurs="1" maxOccurs="1" name="startRowIndex" type="xs:int"/>
      <xs:element minOccurs="1" maxOccurs="1" name="maximumRows" type="xs:int"/>
      <xs:element minOccurs="1" maxOccurs="1" name="autoResync" type="xs:boolean"/>
    
```

```

    <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="userCookieId" type="q1:guid"/>
  </xs:sequence>
</xs:complexType>
</xs:element>

```

**parameter:** A **CommandParameter**, as specified by section [2.2.4.3](#). MUST be present.

**fields:** A **FieldList** (section [2.2.4.12](#)) that specifies the fields (3) of the **Source** (section [3.2.1.1](#)), which was previously supplied as an input element to the **GetObjectSchema** operation (section [3.2.4.7.2.1](#)), for which data is to be retrieved.

**restriction:** A **CT\_Expression** ([\[MS-AXL2\]](#) section 2.2.3.1) that specifies a restriction expression to be applied to the result set. Only rows in the **Source** that return "true" for this restriction expression are included in the result set.

**queryParameters:** An **ArrayOfKeyValuePair** (section [2.2.4.2](#)) that specifies the set of values for each **CT\_Parameter** ([\[MS-AXL2\]](#) section 2.2.3.12) required in the **Source**. One value MUST be present for every **CT\_Parameter** defined in the **Source**.

- The **Key** element of each of the **KeyValuePair**s (section [2.2.4.5](#)) in **queryParameters** matches the **Name** element of the **CT\_Parameter**.
- The **Value** element of each of the **KeyValuePair**s specifies the value of the **Expression** element of the **CT\_ParameterValue** ([\[MS-AXL2\]](#) section 2.2.3.16) in the correct data type.

**sortExpression:** A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the sort order to apply when the protocol server retrieves data from the database application. If present and not empty, MUST contain an **Ordering** element, as specified by [\[MS-AXL2\]](#) section 2.2.1.2.

**filter:** A **FilterInfo** (section [2.2.4.10](#)) that specifies how the result set is to be filtered.

**moniker:** A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies a unique identifier for the result set within a session (2). MUST be present. If the moniker exists in the session (2), the protocol server replaces the old result set with the result set defined in this operation.

**startRowIndex:** An **int** ([\[XMLSCHEMA2\]](#) section 3.3.17) that specifies the index of the first row to return from the result set.

- MUST be nonnegative.
- MUST be zero to specify the first row.
- MUST be less than the number of rows in the result set.

**maximumRows:** A **int** ([\[XMLSCHEMA2\]](#) section 3.3.17) that specifies the maximum number of rows to return. MUST be non-negative.

**autoResync:** A **boolean** ([\[XMLSCHEMA2\]](#) section 3.2.2) that specifies whether the protocol server will sync any row after it is inserted or updated.

**userCookieId:** A **guid** (section [2.2.5.5](#)) that specifies an identifier for the operation. SHOULD be ignored by the protocol server.

### 3.2.4.10.2.2 OpenResultSetResponse

The result data for the **OpenResultSet** WSDL operation.

```

<xs:element name="OpenResultSetResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="OpenResultSetResult"
type="tns1:CommandResult"/>
      <xs:element minOccurs="0" maxOccurs="1" name="tableXml" type="xs:string"/>
      <xs:element minOccurs="1" maxOccurs="1" name="totalRowCount" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**OpenResultSetResult:** A **CommandResult**, as specified in section [2.2.4.4](#). MUST be present.

**tableXml:** A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies XML containing the returned rows.

- MUST be present.
- MUST be a **DiffGram**, as specified by [\[MS-DSDIFFGRAM\]](#).
- The **root element** MUST be named "DataTable".

Each child of the "DocumentElement" child of the "Diffgram" child of the "DataTable" element MUST be named "Data".

**totalRowCount:** An **int** ([\[XMLSCHEMA2\]](#) section 3.3.17) that specifies the total number of rows in the **Source** (section [3.2.1.1](#)), which was previously supplied as an input element in the **GetObjectSchema** operation (section [3.2.4.7.2.1](#)).

### 3.2.4.10.3 Complex Types

None.

### 3.2.4.10.4 Simple Types

None.

### 3.2.4.10.5 Attributes

None.

### 3.2.4.10.6 Groups

None.

### 3.2.4.10.7 Attribute Groups

None.

### 3.2.4.11 OpenSession

This operation creates a new session (2).

```

<wsdl:operation name="OpenSession" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ

```

```

erInternalService/IAccessServiceSoap/OpenSession"
message="tns1:IAccessServiceSoap_OpenSession_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/OpenSessionResponse"
message="tns1:IAccessServiceSoap_OpenSession_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/OpenSessionAccessServerMessageFault"
name="AccessServerMessageFault"
message="tns1:IAccessServiceSoap_OpenSession_AccessServerMessageFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends an **IAccessServiceSoap\_OpenSession\_InputMessage** (section [3.2.4.11.1.1](#)) request message and the protocol server responds with an **IAccessServiceSoap\_OpenSession\_OutputMessage** (section [3.2.4.11.1.2](#)) response message as follows:

- If the operation succeeds, the protocol server MUST return the **SessionIdentifier** (section [3.2.1.2](#)) for the newly created session (2) in the response message to be used in any future operations against the newly created session (2). This **SessionIdentifier** MUST be returned in the **sessionId** element of the **OpenSessionResponse** element (section [3.2.4.11.2.2](#)).

### 3.2.4.11.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

| Message                                      | Description  |
|--|--|
| IAccessServiceSoap_OpenSession_InputMessage  | The request WSDL message for the <b>OpenSession</b> WSDL operation.  |
| IAccessServiceSoap_OpenSession_OutputMessage | The response WSDL message for the <b>OpenSession</b> WSDL operation. |

#### 3.2.4.11.1.1 IAccessServiceSoap\_OpenSession\_InputMessage

The request WSDL message for the **OpenSession** WSDL operation.

The SOAP action value is:

```

http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalSer
vice/IAccessServiceSoap/OpenSession

```

The SOAP body contains the **OpenSession** element.

#### 3.2.4.11.1.2 IAccessServiceSoap\_OpenSession\_OutputMessage

The response WSDL message for the **OpenSession** WSDL operation.

The SOAP body contains the **OpenSessionResponse** element.

### 3.2.4.11.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

| Element             | Description  |
|---------------------|--|
| OpenSession         | The input data for the <b>OpenSession</b> WSDL operation.  |
| OpenSessionResponse | The result data for the <b>OpenSession</b> WSDL operation. |

#### 3.2.4.11.2.1 OpenSession

The input data for the **OpenSession** WSDL operation.

```
<xs:element name="OpenSession" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="parameter" type="tns1:CommandParameter"/>
      <xs:element minOccurs="0" maxOccurs="1" name="cultureParameter"
type="tns1:CultureCommandParameter"/>
      <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="userCookieId" type="q1:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**parameter:** A **CommandParameter**, as specified by section [2.2.4.3](#). MUST be present.

**cultureParameter:** A **CultureCommandParameter** (section [3.2.4.11.3.1](#)) that specifies UI culture, data culture, and **host data language** related information of the newly created session (2). MUST be present.

**userCookieId:** A **guid** (section [2.2.5.5](#)) that specifies an identifier for the operation. SHOULD be ignored by the protocol server.

#### 3.2.4.11.2.2 OpenSessionResponse

The result data for the **OpenSession** WSDL operation.

```
<xs:element name="OpenSessionResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="OpenSessionResult"
type="tns1:CommandResult"/>
      <xs:element minOccurs="0" maxOccurs="1" name="sessionId" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**OpenSessionResult:** A **CommandResult**, as specified by section [2.2.4.4](#). MUST be present.

**sessionId:** A **SessionIdentifier** (section [3.2.1.2](#)) that specifies the session identifier (2) of the newly created session (2). MUST be present.

### 3.2.4.11.3 Complex Types

The following table summarizes the XML schema complex type definitions that are specific to this operation.

| Complex type            | Description                                |
|-------------------------|--|
| CultureCommandParameter | See section <a href="#">3.2.4.11.3.1</a> . |

#### 3.2.4.11.3.1 CultureCommandParameter

##### Namespace:

<http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/>

The **CultureCommandParameter** complex type is used to specify UI culture, data culture, and host data language related information when creating a new session (2).

```
<xs:complexType name="CultureCommandParameter" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="1" name="UICultureName" type="xs:string"/>
    <xs:element minOccurs="0" maxOccurs="1" name="DataCultureName" type="xs:string"/>
    <xs:element minOccurs="0" maxOccurs="1" name="SharePointDataCultureName"
      type="xs:string"/>
    <xs:element minOccurs="0" maxOccurs="1" name="TimeZoneSerialization" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
```

**UICultureName:** A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies a language tag, as specified in [\[RFC1766\]](#), section 2, that specifies the UI culture. The **UICultureName** element:

- MUST be present.
- MUST NOT be empty.
- MUST NOT be longer than 32,768 characters.
- If the language represented by **UICultureName** is not supported on the protocol server, the protocol server SHOULD [<2>](#) fall back to some other supported language.

**DataCultureName:** A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies a language tag, as specified in [\[RFC1766\]](#), section 2, that specifies the data culture. The **DataCultureName** element:

- MUST be present.
- MUST NOT be empty.
- MUST NOT be longer than 32,768 characters.

The protocol server uses **SharePointDataCultureName** as a **fallback data culture** if **DataCultureName** is not supported.

**SharePointDataCultureName:** A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies a language tag, as specified in [\[RFC1766\]](#), section 2, that specifies the host data language. The **SharePointDataCultureName** element:

- MUST be present.
- MUST NOT be longer than 32,768 characters.

**TimeZoneSerialization:** A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the time zone of the session (2). The **TimeZoneSerialization** element:

- MUST be present.
- MUST be exactly 73 characters long.
- MUST have the following layout, which is specified using **Augmented Backus-Naur Form (ABNF)**, as specified in [\[RFC2234\]](#):

| <b>TimeZone</b> | <b>=</b> | <b>Bias "#" StandardDate "#" StandardBias "#" DaylightDate "#" DaylightBias</b> |
|-----------------|----------|---|
| Bias            | =        | "+"\"-" 4DIGIT  |
| StandardDate    | =        | Date %d84 Time  |
| StandardBias    | =        | "+"\"-" 4DIGIT  |
| DaylightDate    | =        | Date %d84 Time  |
| DaylightBias    | =        | "+"\"-" 4DIGIT  |
| Date            | =        | Year "-" Month "-" DayOfWeek "-" Day  |
| Time            | =        | Hour ":" Minute ":" Second ":" Millisecond                                      |
| Year            | =        | 4DIGIT  |
| Month           | =        | 2DIGIT ; 01-12  |
| DayOfWeek       | =        | 2DIGIT ; 00-06 (Sunday-Saturday)  |
| Day             | =        | 2DIGIT ; 01-31  |
| Hour            | =        | 2DIGIT ; 00-23  |
| Minute          | =        | 2DIGIT ; 00-59  |
| Second          | =        | 2DIGIT ; 00-59  |
| Millisecond     | =        | 4DIGIT  |

The following restrictions MUST apply to the **TimeZoneSerialization** element:

- **Bias** MUST be the **time zone bias**.
- **StandardDate** MUST be the **time zone standard date**.
- **StandardBias** MUST be the **time zone standard bias**.
- **DaylightDate** MUST be the **time zone daylight date**.
- **DaylightBias** MUST be the **time zone daylight bias**.
- **Month** MUST be date-month, as specified in [\[RFC3339\]](#).

- **Day** MUST be date-mday, as specified in [\[RFC3339\]](#).
- **Hour** MUST be time-hour, as specified in [\[RFC3339\]](#).
- **Minute** MUST time-minute, as specified in [\[RFC3339\]](#).
- **Second** MUST be time-second, as specified in [\[RFC3339\]](#).

**DayOfWeek** MUST have one of the values in the following table.

| Value | Meaning   |
|-------|-----------|
| 00    | Sunday    |
| 01    | Monday    |
| 02    | Tuesday   |
| 03    | Wednesday |
| 04    | Thursday  |
| 05    | Friday    |
| 06    | Saturday  |

#### 3.2.4.11.4 Simple Types

None.

#### 3.2.4.11.5 Attributes

None.

#### 3.2.4.11.6 Groups

None.

#### 3.2.4.11.7 Attribute Groups

None.

#### 3.2.4.12 UpdateData

This operation updates a record in an **Updatable Source** (section [3.2.1.1](#)) in the database application and also updates the row in the result set.

```
<wsdl:operation name="UpdateData" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
    erInternalService/IAccessServiceSoap/UpdateData"
    message="tns1:IAccessServiceSoap_UpdateData_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
    erInternalService/IAccessServiceSoap/UpdateDataResponse"
    message="tns1:IAccessServiceSoap_UpdateData_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```



```

<wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/Webservices/AccessServ
erInternalService/IAccessServiceSoap/UpdateDataAccessServerMessageFault"
name="AccessServerMessageFault"
message="tnsl:IAccessServiceSoap_UpdateData_AccessServerMessageFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends an **IAccessServiceSoap\_UpdateData\_InputMessage** (section [3.2.4.12.1.1](#)) request message and the protocol server responds with an **IAccessServiceSoap\_UpdateData\_OutputMessage** (section [3.2.4.12.1.2](#)) response message as follows:

- The protocol server attempts to update the record in the **Updatable Source**, as specified in section [3.2.1.1](#), which has a primary key equal to the **Key** element of the first **KeyValuePair** (section [2.2.4.5](#)) of the **keys** input element (section [3.2.4.12.2.1](#)).
- If the columns in the result set specified by the **Key** elements of the **KeyValuePair** elements of the **oldValues** element (section [3.2.4.12.2.1](#)) contain data different from what is specified by the respective **Value** elements of the **KeyValuePair** elements of the **oldValues**, a SOAP fault MUST be returned.
- If the record was successfully updated, the protocol server retrieves the updated record from the database application and updates the row in result set with a primary key equal to the primary key of the updated record with its columns filled in as specified by the corresponding columns of the retrieved record. The protocol server then returns the updated row to the protocol client.

In the event of an application error on the protocol server during this operation, a SOAP fault is returned, as specified in section [2.2.9](#). The **Id** element of the **AccessServerMessage** (section [2.2.4.1](#)) MUST be one of the values specified in section [2.2.9.1](#), or one of the values specified in section [2.2.9.2](#), or one of the values specified in section [2.2.9.3](#), or one of the values specified in the following table.

| Identifier  | Description                           |
|---|---------------------------------------|
| WriteRecordsPermissionsFailure                      | See section <a href="#">2.2.5.2</a> . |
| DataException_ConflictsEncounteredWhileUpdatingData | See section <a href="#">2.2.5.2</a> . |
| DataException_DeleteConflict                        | See section <a href="#">2.2.5.2</a> . |

### 3.2.4.12.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

| Message                                     | Description   |
|---|---|
| IAccessServiceSoap_UpdateData_InputMessage  | The request WSDL message for the <b>UpdateData</b> WSDL operation.  |
| IAccessServiceSoap_UpdateData_OutputMessage | The response WSDL message for the <b>UpdateData</b> WSDL operation. |

### 3.2.4.12.1.1 IAccessServiceSoap\_UpdateData\_InputMessage

The request WSDL message for the **UpdateData** WSDL operation.

The SOAP action value is:

```
http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/UpdateData
```

The SOAP body contains the **UpdateData** element.

### 3.2.4.12.1.2 IAccessServiceSoap\_UpdateData\_OutputMessage

The response WSDL message for the **UpdateData** WSDL operation.

The SOAP body contains the **UpdateDataResponse** element.

### 3.2.4.12.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

| Element            | Description   |
|--------------------|---|
| UpdateData         | The input data for the <b>UpdateData</b> WSDL operation.  |
| UpdateDataResponse | The result data for the <b>UpdateData</b> WSDL operation. |

#### 3.2.4.12.2.1 UpdateData

The input data for the **UpdateData** WSDL operation.

```
<xs:element name="UpdateData" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="parameter" type="tns1:CommandParameter"/>
      <xs:element minOccurs="0" maxOccurs="1" name="moniker" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="keys" type="tns1:ArrayOfKeyValuePair"/>
      <xs:element minOccurs="0" maxOccurs="1" name="values" type="tns1:ArrayOfKeyValuePair"/>
      <xs:element minOccurs="0" maxOccurs="1" name="oldValues"
type="tns1:ArrayOfKeyValuePair"/>
      <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="userCookieId" type="q1:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**parameter:** A **CommandParameter**, as specified in section [2.2.4.3](#). MUST be present.

**moniker:** A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies an identifier for a result set. MUST be present. MUST contain an identifier that was previously supplied during the session (2) as the **moniker** element for the input to a **GetObjectSchema** operation (section [3.2.4.7.2.1](#)).

**keys:** An **ArrayOfKeyValuePair** (section [2.2.4.5](#)) that specifies the row to update.

- MUST be present, and MUST contain exactly one **KeyValuePair**.

The **Key** element of the **KeyValuePair** MUST contain a primary key value for a row in the result set.

**values:** An **ArrayOfKeyValuePair** (section [2.2.4.5](#)) that specifies the fields (3) and their new values which are to be inserted in the record identified by **keys** element. Each **Key** element specifies the name of a column in the result set, and the corresponding **Value** element contains the data for that column in the row.

- MUST be present.
- MUST contain at least one **KeyValuePair** (section [2.2.4.5](#)).
- For each **KeyValuePair**:
  - The **Value** element MUST be the correct data type for the column in the result set.
  - The **Value** element MUST either be empty and with the **nil** ([\[XMLSCHEMA2\]](#) section 2.6.2) attribute set to "true" or have the **type** ([\[XMLSCHEMA2\]](#) section 2.6.1) attribute set to one of the following:
    - **boolean** ([\[XMLSCHEMA2\]](#) section 3.2.2)
    - **datetime** ([\[XMLSCHEMA2\]](#) section 3.2.7)
    - **string** ([\[XMLSCHEMA2\]](#) section 3.2.1)
    - **int** ([\[XMLSCHEMA2\]](#) section 3.3.17)
    - **decimal** ([\[XMLSCHEMA2\]](#) section 3.2.3)
    - **double** ([\[XMLSCHEMA2\]](#) section 3.2.5)

**oldValues:** An **ArrayOfKeyValuePair** (section [2.2.4.5](#)) that specifies the fields (3) and their original values in the record identified by **keys** element. Each **Key** element specifies the name of a column in the result set, and the corresponding **Value** element contains the value of the column in the row prior to the update operation.

- MUST be present.
- MUST contain at least one **KeyValuePair** (section [2.2.4.5](#)).
- For each **KeyValuePair**:
  - The **Value** element MUST be the correct data type for the column in the result set.
  - The **Value** element MUST either be empty and with the **nil** ([\[XMLSCHEMA2\]](#) section 2.6.2) attribute set to "true" or have the **type** ([\[XMLSCHEMA2\]](#) section 2.6.1) attribute set to one of the following:
    - **boolean** ([\[XMLSCHEMA2\]](#) section 3.2.2)
    - **datetime** ([\[XMLSCHEMA2\]](#) section 3.2.7)
    - **string** ([\[XMLSCHEMA2\]](#) section 3.2.1)
    - **int** ([\[XMLSCHEMA2\]](#) section 3.3.17)

- **decimal** ([\[XMLSCHEMA2\]](#) section 3.2.3)
- **double** ([\[XMLSCHEMA2\]](#) section 3.2.5)

**userCookieId:** A **guid** (section [2.2.5.5](#)) that specifies an identifier for the operation. SHOULD be ignored by the protocol server.

### 3.2.4.12.2 UpdateDataResponse

The result data for the **UpdateData** WSDL operation.

```
<xs:element name="UpdateDataResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="UpdateDataResult"
type="tns1:CommandResult"/>
      <xs:element minOccurs="0" maxOccurs="1" name="updatedTableXml" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**UpdateDataResult:** A **CommandResult**, as specified in section [2.2.4.4](#). MUST be present.

**updatedTableXml:** A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the XML containing the content of the returned row, as specified for the **tableXml** element of the **OpenResultSetResponse** element (section [3.2.4.10.2.2](#)).

### 3.2.4.12.3 Complex Types

None.

### 3.2.4.12.4 Simple Types

None.

### 3.2.4.12.5 Attributes

None.

### 3.2.4.12.6 Groups

None.

### 3.2.4.12.7 Attribute Groups

None.

### 3.2.4.13 AddFirewallRule

This operation adds a **FirewallRule** ([\[MS-AADT\]](#) section 2.2.4.15) to the database application.

```
<wsdl:operation name="AddFirewallRule" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/AddFirewallRule"
```

```

message="tnsl:IAccessServiceSoap_AddFirewallRule_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsd1"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/AddFirewallRuleResponse"
message="tnsl:IAccessServiceSoap_AddFirewallRule_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsd1"/>
  <wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/AddFirewallRuleAccessServerMessageFault"
name="AccessServerMessageFault"
message="tnsl:IAccessServiceSoap_AddFirewallRule_AccessServerMessageFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsd1"/>
</wsdl:operation>

```

The protocol client sends an **IAccessServiceSoap\_AddFirewallRule\_InputMessage** (section [3.2.4.13.1.1](#)) request message and the protocol server responds with an **IAccessServiceSoap\_AddFirewallRule\_OutputMessage** (section [3.2.4.13.1.2](#)) response message as follows:

- If an error occurs on the protocol server during this operation, the protocol server MUST respond with a SOAP fault, as specified in section [2.2.9](#).
- Otherwise, the protocol server MUST respond with an **IAccessServiceSoap\_AddFirewallRule\_OutputMessage** response message that contains information about the **FirewallRule** ([\[MS-AADT\]](#) section 2.2.4.15) which was added to the database application.

### 3.2.4.13.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

| Message  | Description  |
|--|--|
| IAccessServiceSoap_AddFirewallRule_InputMessage  | The request WSDL message for the <b>AddFirewallRule</b> WSDL operation.  |
| IAccessServiceSoap_AddFirewallRule_OutputMessage | The response WSDL message for the <b>AddFirewallRule</b> WSDL operation. |

#### 3.2.4.13.1.1 IAccessServiceSoap\_AddFirewallRule\_InputMessage

The request WSDL message for the **AddFirewallRule** WSDL operation.

The SOAP action value is:

```

http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/AddFirewallRule

```

The SOAP body contains the **AddFirewallRule** element.

#### 3.2.4.13.1.2 IAccessServiceSoap\_AddFirewallRule\_OutputMessage

The response WSDL message for the **AddFirewallRule** WSDL operation.

The SOAP body contains the **AddFirewallRuleResponse** element.

### 3.2.4.13.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

| Element                 | Description  |
|-------------------------|--|
| AddFirewallRule         | The input data for the <b>AddFirewallRule</b> WSDL operation.  |
| AddFirewallRuleResponse | The result data for the <b>AddFirewallRule</b> WSDL operation. |

#### 3.2.4.13.2.1 AddFirewallRule

The input data for the **AddFirewallRule** WSDL operation.

```
<xs:element name="AddFirewallRule" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="commandParameter"
type="tns1:CommandParameter"/>
      <xs:element minOccurs="0" maxOccurs="1" name="container" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="parameters"
type="tns1:AddFirewallRuleParameters"/>
      <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="userCookieId" type="q1:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**commandParameter:** A **CommandParameter**, as specified in section [2.2.4.3](#). MUST be present.

**container:** A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the **absolute URL** to the current site (2) on which the operation is to be performed. MUST be present.

**parameters:** An **AddFirewallRuleParameters** ([\[MS-AADT\]](#) section 3.1.4.10.3.1) that specifies the IP range for which **FirewallRules** ([\[MS-AADT\]](#) section 2.2.4.15) are to be created in the database application. MUST be present.

**userCookieId:** A **guid** (section [2.2.5.5](#)) that specifies an identifier for the operation. SHOULD be ignored by the protocol server.

#### 3.2.4.13.2.2 AddFirewallRuleResponse

The result data for the **AddFirewallRule** WSDL operation.

```
<xs:element name="AddFirewallRuleResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="AddFirewallRuleResult"
type="tns1:CommandResult"/>
      <xs:element minOccurs="0" maxOccurs="1" name="result"
type="tns1:AddFirewallRuleResult"/>
    </xs:sequence>
  </xs:complexType>
```

</xs:element>

**AddFirewallRuleResult:** A **CommandResult**, as specified in section [2.2.4.4](#). MUST be present.

**result:** An **AddFirewallRuleResult** ([\[MS-AADT\]](#) section 3.1.4.10.3.2) that specifies the **FirewallRule** ([\[MS-AADT\]](#) section 2.2.4.15) name if adding **FirewallRule** in database application was successful. MUST be present.

### 3.2.4.13.3 Complex Types

None.

### 3.2.4.13.4 Simple Types

None.

### 3.2.4.13.5 Attributes

None.

### 3.2.4.13.6 Groups

None.

### 3.2.4.13.7 Attribute Groups

None.

### 3.2.4.14 CreateAccessObject

This operation triggers creation of an object in a database application.

```
<wsdl:operation name="CreateAccessObject" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/CreateAccessObject"
    message="tns1:IAccessServiceSoap_CreateAccessObject_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/CreateAccessObjectResponse"
    message="tns1:IAccessServiceSoap_CreateAccessObject_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/CreateAccessObjectAccessServerMessageFault"
    name="AccessServerMessageFault"
    message="tns1:IAccessServiceSoap_CreateAccessObject_AccessServerMessageFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IAccessServiceSoap\_CreateAccessObject\_InputMessage** (section [3.2.4.14.1.1](#)) request message and the protocol server responds with an **IAccessServiceSoap\_CreateAccessObject\_OutputMessage** (section [3.2.4.14.1.2](#)) response message as follows:

- If an error occurs on the protocol server during this operation, the protocol server MUST respond with a SOAP fault, as specified by section [2.2.9](#).
- Otherwise, the protocol server MUST respond with an **IAccessServiceSoap\_CreateAccessObject\_OutputMessage** response message that contains information about the newly created object, as specified by **CreateResult** ([\[MS-AADT\]](#) section 3.1.4.1.3.2).

### 3.2.4.14.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

| Message   | Description   |
|---|---|
| IAccessServiceSoap_CreateAccessObject_InputMessage  | The request WSDL message for the <b>CreateAccessObject</b> WSDL operation.  |
| IAccessServiceSoap_CreateAccessObject_OutputMessage | The response WSDL message for the <b>CreateAccessObject</b> WSDL operation. |

#### 3.2.4.14.1.1 IAccessServiceSoap\_CreateAccessObject\_InputMessage

The request WSDL message for the **CreateAccessObject** WSDL operation.

The SOAP action value is:

```
http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/CreateAccessObject
```

The SOAP body contains the **CreateAccessObject** element.

#### 3.2.4.14.1.2 IAccessServiceSoap\_CreateAccessObject\_OutputMessage

The response WSDL message for the **CreateAccessObject** WSDL operation.

The SOAP body contains the **CreateAccessObjectResponse** element.

### 3.2.4.14.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

| Element                    | Description   |
|----------------------------|---|
| CreateAccessObject         | The input data for the <b>CreateAccessObject</b> WSDL operation.  |
| CreateAccessObjectResponse | The result data for the <b>CreateAccessObject</b> WSDL operation. |

#### 3.2.4.14.2.1 CreateAccessObject

The input data for the **CreateAccessObject** WSDL operation.

```
<xs:element name="CreateAccessObject" xmlns:xs="http://www.w3.org/2001/XMLSchema">
```



```

<xs:complexType>
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="1" name="commandParameter"
type="tnsl:CommandParameter"/>
    <xs:element minOccurs="0" maxOccurs="1" name="container" type="xs:string"/>
    <xs:element minOccurs="0" maxOccurs="1" name="parameters"
type="tnsl:CreateParameters"/>
    <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="userCookieId" type="q1:guid"/>
  </xs:sequence>
</xs:complexType>
</xs:element>

```

**commandParameter:** A **CommandParameter**, as specified in section [2.2.4.3](#). MUST be present.

**container:** A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the absolute URL to the current site (2) on which the operation is to be performed. MUST be present.

**parameters:** A **CreateParameters** ([\[MS-AADT\]](#) section 3.1.4.1.3.1) that specifies the information that the protocol server needs to create an object. MUST be present.

**userCookieId:** A **guid** (section [2.2.5.5](#)) that specifies an identifier for the operation.

### 3.2.4.14.2.2 CreateAccessObjectResponse

The result data for the **CreateAccessObject** WSDL operation.

```

<xs:element name="CreateAccessObjectResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="CreateAccessObjectResult"
type="tnsl:CommandResult"/>
      <xs:element minOccurs="0" maxOccurs="1" name="result" type="tnsl:CreateResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**CreateAccessObjectResult:** A **CommandResult**, as specified in section [2.2.4.4](#). MUST be present.

**result:** A **CreateResult** element ([\[MS-AADT\]](#) section 3.1.4.1.3.2) that specifies information about a newly created object for the protocol client to use.

### 3.2.4.14.3 Complex Types

None.

### 3.2.4.14.4 Simple Types

None.

### 3.2.4.14.5 Attributes

None.

### 3.2.4.14.6 Groups

None.

### 3.2.4.14.7 Attribute Groups

None.

### 3.2.4.15 CreateApplication

This operation creates a new database application under the current site (2).

```
<wsdl:operation name="CreateApplication" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/CreateApplication"
    message="tnsl:IAccessServiceSoap_CreateApplication_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/CreateApplicationResponse"
    message="tnsl:IAccessServiceSoap_CreateApplication_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/CreateApplicationAccessServerMessageFault"
    name="AccessServerMessageFault"
    message="tnsl:IAccessServiceSoap_CreateApplication_AccessServerMessageFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The client sends an **IAccessServiceSoap\_CreateApplication\_InputMessage** (section [3.2.4.15.1.1](#)) request message and the server responds with an **IAccessServiceSoap\_CreateApplication\_OutputMessage** (section [3.2.4.15.1.2](#)) response message upon successful completion of creating the database application. The protocol server MUST respond with a SOAP fault as specified by section [2.2.9](#) if an error occurs on the protocol server during this operation.

#### 3.2.4.15.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

| Message  | Description  |
|--|--|
| IAccessServiceSoap_CreateApplication_InputMessage  | The request WSDL message for the <b>CreateApplication</b> WSDL operation.  |
| IAccessServiceSoap_CreateApplication_OutputMessage | The response WSDL message for the <b>CreateApplication</b> WSDL operation. |

##### 3.2.4.15.1.1 IAccessServiceSoap\_CreateApplication\_InputMessage

The request WSDL message for the **CreateApplication** WSDL operation.

The SOAP action value is:

The SOAP body contains the **CreateApplication** element.

### 3.2.4.15.1.2 IAccessServiceSoap\_CreateApplication\_OutputMessage

The response WSDL message for the **CreateApplication** WSDL operation.

The SOAP body contains the **CreateApplicationResponse** element.

### 3.2.4.15.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

| Element                   | Description  |
|---------------------------|--|
| CreateApplication         | The input data for the <b>CreateApplication</b> WSDL operation.  |
| CreateApplicationResponse | The result data for the <b>CreateApplication</b> WSDL operation. |

#### 3.2.4.15.2.1 CreateApplication

The input data for the **CreateApplication** WSDL operation.

```
<xs:element name="CreateApplication" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="commandParameter"
        type="tns1:CommandParameter"/>
      <xs:element minOccurs="0" maxOccurs="1" name="container" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="parameters"
        type="tns1:CreateApplicationParameters"/>
      <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
        name="userCookieId" type="q1:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**commandParameter:** A **CommandParameter**, as specified in section [2.2.4.3](#). MUST be present.

**container:** A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the absolute URL to the current site (2) on which the operation is to be performed. MUST be present.

**parameters:** A **CreateApplicationParameters** element ([\[MS-ASDT\]](#) section 3.1.4.1.3.1) that specifies the information that the protocol server needs to create a new database application. MUST be present.

**userCookieId:** A **guid** (section [2.2.5.5](#)) that specifies an identifier for the operation. SHOULD be ignored by the protocol server.

#### 3.2.4.15.2.2 CreateApplicationResponse

The result data for the **CreateApplication** WSDL operation.

```

<xs:element name="CreateApplicationResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="CreateApplicationResult"
type="tns1:CommandResult"/>
      <xs:element minOccurs="0" maxOccurs="1" name="result" type="tns1:CreateAppResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**CreateApplicationResult:** A **CommandResult**, as specified in section [2.2.4.4](#). MUST be present.

**result:** A **CreateAppResult** element ([\[MS-ASDT\]](#) section 3.1.4.1.3.3) that specifies information about a newly created database application for the protocol client to use.

### 3.2.4.15.3 Complex Types

None.

### 3.2.4.15.4 Simple Types

None.

### 3.2.4.15.5 Attributes

None.

### 3.2.4.15.6 Groups

None.

### 3.2.4.15.7 Attribute Groups

None.

### 3.2.4.16 CreatePackage

This operation triggers creation of a package that represents a database application, including its objects and data. The package can be retrieved by using the **GetPackage** operation (section [3.2.4.40](#)).

```

<wsdl:operation name="CreatePackage" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/CreatePackage"
message="tns1:IAccessServiceSoap_CreatePackage_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/CreatePackageResponse"
message="tns1:IAccessServiceSoap_CreatePackage_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/CreatePackageAccessServerMessageFault"
name="AccessServerMessageFault"

```

```

message="tnsl:IAccessServiceSoap_CreatePackage_AccessServerMessageFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends an **IAccessServiceSoap\_CreatePackage\_InputMessage** (section [3.2.4.16.1.1](#)) request message and the protocol server responds with a **IAccessServiceSoap\_CreatePackage\_OutputMessage** (section [3.2.4.16.1.2](#)) response message as follows:

- If an error occurs on the protocol server during this operation, the protocol server MUST respond with a SOAP fault, as specified by section [2.2.9](#).
- Otherwise, the protocol server MUST respond with a **IAccessServiceSoap\_CreatePackage\_OutputMessage** response message that contains an identifier that can be used to retrieve the package.

### 3.2.4.16.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

| Message  | Description  |
|--|--|
| IAccessServiceSoap_CreatePackage_InputMessage  | The request WSDL message for the <b>CreatePackage</b> WSDL operation.  |
| IAccessServiceSoap_CreatePackage_OutputMessage | The response WSDL message for the <b>CreatePackage</b> WSDL operation. |

#### 3.2.4.16.1.1 IAccessServiceSoap\_CreatePackage\_InputMessage

The request WSDL message for the **CreatePackage** WSDL operation.

The SOAP action value is:

```

http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/CreatePackage

```

The SOAP body contains the **CreatePackage** element.

#### 3.2.4.16.1.2 IAccessServiceSoap\_CreatePackage\_OutputMessage

The response WSDL message for the **CreatePackage** WSDL operation.

The SOAP body contains the **CreatePackageResponse** element.

### 3.2.4.16.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

| Element       | Description   |
|---------------|---|
| CreatePackage | The input data for the <b>CreatePackage</b> WSDL operation. |

| Element               | Description  |
|-----------------------|--|
| CreatePackageResponse | The result data for the <b>CreatePackage</b> WSDL operation. |

### 3.2.4.16.2.1 CreatePackage

The input data for the **CreatePackage** WSDL operation.

```
<xs:element name="CreatePackage" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="commandParameter"
type="tnsl:CommandParameter"/>
      <xs:element minOccurs="0" maxOccurs="1" name="container" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="parameters"
type="tnsl:CreatePackageParameters"/>
      <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="userCookieId" type="q1:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**commandParameter:** A **CommandParameter**, as specified in section [2.2.4.3](#). MUST be present.

**container:** A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the absolute URL to the current site (2) on which the operation is to be performed. MUST be present.

**parameters:** A **CreatePackageParameters** element ([\[MS-AADT\]](#) section 3.1.4.2.3.1) that specifies the information the protocol server needs in order to create a package. MUST be present.

**userCookieId:** A **guid** (section [2.2.5.5](#)) that specifies an identifier for the operation. SHOULD be ignored by the protocol server.

### 3.2.4.16.2.2 CreatePackageResponse

The result data for the **CreatePackage** WSDL operation.

```
<xs:element name="CreatePackageResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="CreatePackageResult"
type="tnsl:CommandResult"/>
      <xs:element minOccurs="0" maxOccurs="1" name="result" type="tnsl:CreatePackageResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**CreatePackageResult:** A **CommandResult**, as specified in section [2.2.4.4](#). MUST be present.

**result:** A **CreatePackageResult** element ([\[MS-AADT\]](#) section 3.1.4.2.3.2) that contains an identifier of a package.

### 3.2.4.16.3 Complex Types

None.

#### 3.2.4.16.4 Simple Types

None.

#### 3.2.4.16.5 Attributes

None.

#### 3.2.4.16.6 Groups

None.

#### 3.2.4.16.7 Attribute Groups

None.

#### 3.2.4.17 DeleteAccessObject

This operation triggers deletion of an object in a database application.

```
<wsdl:operation name="DeleteAccessObject" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/DeleteAccessObject"
    message="tns1:IAccessServiceSoap_DeleteAccessObject_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/DeleteAccessObjectResponse"
    message="tns1:IAccessServiceSoap_DeleteAccessObject_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/DeleteAccessObjectAccessServerMessageFault"
    name="AccessServerMessageFault"
    message="tns1:IAccessServiceSoap_DeleteAccessObject_AccessServerMessageFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IAccessServiceSoap\_DeleteAccessObject\_InputMessage** (section [3.2.4.17.1.1](#)) request message and the protocol server responds with an **IAccessServiceSoap\_DeleteAccessObject\_OutputMessage** (section [3.2.4.17.1.2](#)) response message as follows:

- If an error occurs on the protocol server during this operation, the protocol server MUST respond with a SOAP fault, as specified in section [2.2.9](#).
- Otherwise, the protocol server MUST respond with a **IAccessServiceSoap\_DeleteAccessObject\_OutputMessage** response message that contains information about the deleted object.

##### 3.2.4.17.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

| Message   | Description   |
|---|---|
| IAccessServiceSoap_DeleteAccessObject_InputMessage  | The request WSDL message for the <b>DeleteAccessObject</b> WSDL operation.  |
| IAccessServiceSoap_DeleteAccessObject_OutputMessage | The response WSDL message for the <b>DeleteAccessObject</b> WSDL operation. |

### 3.2.4.17.1.1 IAccessServiceSoap\_DeleteAccessObject\_InputMessage

The request WSDL message for the **DeleteAccessObject** WSDL operation.

The SOAP action value is:

```
http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/DeleteAccessObject
```

The SOAP body contains the **DeleteAccessObject** element.

### 3.2.4.17.1.2 IAccessServiceSoap\_DeleteAccessObject\_OutputMessage

The response WSDL message for the **DeleteAccessObject** WSDL operation.

The SOAP body contains the **DeleteAccessObjectResponse** element.

### 3.2.4.17.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

| Element                    | Description   |
|----------------------------|---|
| DeleteAccessObject         | The input data for the <b>DeleteAccessObject</b> WSDL operation.  |
| DeleteAccessObjectResponse | The result data for the <b>DeleteAccessObject</b> WSDL operation. |

### 3.2.4.17.2.1 DeleteAccessObject

The input data for the **DeleteAccessObject** WSDL operation.

```
<xs:element name="DeleteAccessObject" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="commandParameter"
type="tns1:CommandParameter"/>
      <xs:element minOccurs="0" maxOccurs="1" name="container" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="parameters"
type="tns1>DeleteParameters"/>
      <xs:element xmlns:q1="http://microsoft.com/wsd1/types/" minOccurs="1" maxOccurs="1"
name="userCookieId" type="q1:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```



**commandParameter:** A **CommandParameter**, as specified in section [2.2.4.3](#). MUST be present.

**container:** A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the absolute URL to the current site (2) on which the operation is to be performed. MUST be present.

**parameters:** A **DeleteParameters** element ([\[MS-AADT\]](#) section 3.1.4.9.3.1) that specifies the object to delete. MUST be present.

**userCookieId:** A **guid** (section [2.2.5.5](#)) that specifies an identifier for the operation. SHOULD be ignored by the protocol server.

### 3.2.4.17.2 DeleteAccessObjectResponse

The result data for the **DeleteAccessObject** WSDL operation.

```
<xs:element name="DeleteAccessObjectResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="DeleteAccessObjectResult"
type="tns1:CommandResult"/>
      <xs:element minOccurs="0" maxOccurs="1" name="result" type="tns1>DeleteResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**DeleteAccessObjectResult:** A **CommandResult**, as specified in section [2.2.4.4](#). MUST be present.

**result:** A **DeleteResult** element ([\[MS-AADT\]](#) section 3.1.4.9.3.2) that specifies the result of the delete operation.

### 3.2.4.17.3 Complex Types

None.

### 3.2.4.17.4 Simple Types

None.

### 3.2.4.17.5 Attributes

None.

### 3.2.4.17.6 Groups

None.

### 3.2.4.17.7 Attribute Groups

None.

### 3.2.4.18 DeleteApplication

This operation deletes the database application located under the current site (2).

```
<wsdl:operation name="DeleteApplication" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
```

```

<wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/DeleteApplication"
message="tns1:IAccessServiceSoap_DeleteApplication_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/DeleteApplicationResponse"
message="tns1:IAccessServiceSoap_DeleteApplication_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/DeleteApplicationAccessServerMessageFault"
name="AccessServerMessageFault"
message="tns1:IAccessServiceSoap_DeleteApplication_AccessServerMessageFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The client sends a **IAccessServiceSoap\_DeleteApplication\_InputMessage** (section [3.2.4.18.1.1](#)) request message and the server responds with a **IAccessServiceSoap\_DeleteApplication\_OutputMessage** (section [3.2.4.18.1.2](#)) response message upon successful completion of deleting the database application. The protocol server MUST respond with a SOAP fault as specified by section [2.2.9](#) if an error occurs on the protocol server during this operation.

### 3.2.4.18.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

| Message  | Description  |
|--|--|
| IAccessServiceSoap_DeleteApplication_InputMessage  | The request WSDL message for the <b>DeleteApplication</b> WSDL operation.  |
| IAccessServiceSoap_DeleteApplication_OutputMessage | The response WSDL message for the <b>DeleteApplication</b> WSDL operation. |

#### 3.2.4.18.1.1 IAccessServiceSoap\_DeleteApplication\_InputMessage

The request WSDL message for the **DeleteApplication** WSDL operation.

The SOAP action value is:

```

http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/DeleteApplication

```

The SOAP body contains the **DeleteApplication** element.

#### 3.2.4.18.1.2 IAccessServiceSoap\_DeleteApplication\_OutputMessage

The response WSDL message for the **DeleteApplication** WSDL operation.

The SOAP body contains the **DeleteApplicationResponse** element.

### 3.2.4.18.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

| Element                   | Description  |
|---------------------------|--|
| DeleteApplication         | The input data for the <b>DeleteApplication</b> WSDL operation.  |
| DeleteApplicationResponse | The result data for the <b>DeleteApplication</b> WSDL operation. |

#### 3.2.4.18.2.1 DeleteApplication

The input data for the **DeleteApplication** WSDL operation.

```
<xs:element name="DeleteApplication" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="commandParameter"
type="tns1:CommandParameter"/>
      <xs:element minOccurs="0" maxOccurs="1" name="container" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="parameters"
type="tns1>DeleteApplicationParameters"/>
      <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="userCookieId" type="q1:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**commandParameter:** A **CommandParameter**, as specified in section [2.2.4.3](#). MUST be present.

**container:** A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the absolute URL to the current site (2) on which the operation is to be performed. MUST be present.

**parameters:** A **DeleteApplicationParameters** element ([\[MS-ASDT\]](#) section 3.1.4.2.3.1) that specifies the information that the protocol server needs to delete a database application. MUST be present.

**userCookieId:** A **guid** (section [2.2.5.5](#)) that specifies an identifier for the operation. SHOULD be ignored by the protocol server.

#### 3.2.4.18.2.2 DeleteApplicationResponse

The result data for the **DeleteApplication** WSDL operation.

```
<xs:element name="DeleteApplicationResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="DeleteApplicationResult"
type="tns1:CommandResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**DeleteApplicationResult:** A **CommandResult**, as specified in section [2.2.4.4](#). MUST be present.

### 3.2.4.18.3 Complex Types

None.

### 3.2.4.18.4 Simple Types

None.

### 3.2.4.18.5 Attributes

None.

### 3.2.4.18.6 Groups

None.

### 3.2.4.18.7 Attribute Groups

None.

### 3.2.4.19 DeleteFirewallRules

This operation deletes the **FirewallRules** ([\[MS-AADT\]](#) section 2.2.4.15) from the database application. These **FirewallRules** MUST be previously added by the **AddFirewallRule** operation (section [3.2.4.13](#)).

```
<wsdl:operation name="DeleteFirewallRules" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/DeleteFirewallRules"
    message="tns1:IAccessServiceSoap_DeleteFirewallRules_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/DeleteFirewallRulesResponse"
    message="tns1:IAccessServiceSoap_DeleteFirewallRules_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/DeleteFirewallRulesAccessServerMessageFault"
    name="AccessServerMessageFault"
    message="tns1:IAccessServiceSoap_DeleteFirewallRules_AccessServerMessageFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IAccessServiceSoap\_DeleteFirewallRules\_InputMessage** (section [3.2.4.19.1.1](#)) request message and the protocol server responds with an **IAccessServiceSoap\_DeleteFirewallRules\_OutputMessage** (section [3.2.4.19.1.2](#)) response message as follows:

- If an error occurs on the protocol server during this operation, the protocol server MUST respond with a SOAP fault, as specified in section [2.2.9](#).
- Otherwise, the protocol server MUST respond with an **IAccessServiceSoap\_DeleteFirewallRules\_OutputMessage** response message.

### 3.2.4.19.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

| Message  | Description  |
|--|--|
| IAccessServiceSoap_DeleteFirewallRules_InputMessage  | The request WSDL message for the <b>DeleteFirewallRules</b> WSDL operation.  |
| IAccessServiceSoap_DeleteFirewallRules_OutputMessage | The response WSDL message for the <b>DeleteFirewallRules</b> WSDL operation. |

#### 3.2.4.19.1.1 IAccessServiceSoap\_DeleteFirewallRules\_InputMessage

The request WSDL message for the **DeleteFirewallRules** WSDL operation.

The SOAP action value is:

```
http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/DeleteFirewallRules
```

The SOAP body contains the **DeleteFirewallRules** element.

#### 3.2.4.19.1.2 IAccessServiceSoap\_DeleteFirewallRules\_OutputMessage

The response WSDL message for the **DeleteFirewallRules** WSDL operation.

The SOAP body contains the **DeleteFirewallRulesResponse** element.

### 3.2.4.19.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

| Element                     | Description  |
|-----------------------------|--|
| DeleteFirewallRules         | The input data for the <b>DeleteFirewallRules</b> WSDL operation.  |
| DeleteFirewallRulesResponse | The result data for the <b>DeleteFirewallRules</b> WSDL operation. |

#### 3.2.4.19.2.1 DeleteFirewallRules

The input data for the **DeleteFirewallRules** WSDL operation.

```
<xs:element name="DeleteFirewallRules" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="commandParameter"
        type="tns1:CommandParameter"/>
      <xs:element minOccurs="0" maxOccurs="1" name="container" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="parameters"
        type="tns1:DeleteFirewallRulesParameters"/>
      <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
        name="userCookieId" type="q1:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

```
</xs:sequence>
</xs:complexType>
</xs:element>
```

**commandParameter:** A **CommandParameter**, as specified in section [2.2.4.3](#). MUST be present.

**container:** A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the absolute URL to the current site (2) on which the operation is to be performed. MUST be present.

**parameters:** A **DeleteFirewallRulesParameters** ([\[MS-AADT\]](#) section 3.1.4.11.3.1) that specifies which **FirewallRules** ([\[MS-AADT\]](#) section 2.2.4.15) in the database application are to be deleted. MUST be present.

**userCookieId:** A **guid** (section [2.2.5.5](#)) that specifies an identifier for the operation. SHOULD be ignored by the protocol server.

### 3.2.4.19.2 DeleteFirewallRulesResponse

The result data for the **DeleteFirewallRules** WSDL operation.

```
<xs:element name="DeleteFirewallRulesResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="DeleteFirewallRulesResult"
        type="tns1:CommandResult"/>
      <xs:element minOccurs="0" maxOccurs="1" name="result"
        type="tns1>DeleteFirewallRulesResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**DeleteFirewallRulesResult:** A **CommandResult**, as specified in section [2.2.4.4](#). MUST be present.

**result:** A **DeleteFirewallRulesResult** ([\[MS-AADT\]](#) section 3.1.4.11.3.3) that specifies if deletion of **FirewallRules** ([\[MS-AADT\]](#) section 2.2.4.15) in the database application was successful. MUST be present.

### 3.2.4.19.3 Complex Types

None.

### 3.2.4.19.4 Simple Types

None.

### 3.2.4.19.5 Attributes

None.

### 3.2.4.19.6 Groups

None.

### 3.2.4.19.7 Attribute Groups

None.

### 3.2.4.20 GetAccessObject

This operation triggers retrieval of the requested object from a database application.

```
<wsdl:operation name="GetAccessObject" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/GetAccessObject"
    message="tns1:IAccessServiceSoap_GetAccessObject_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/GetAccessObjectResponse"
    message="tns1:IAccessServiceSoap_GetAccessObject_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/GetAccessObjectAccessServerMessageFault"
    name="AccessServerMessageFault"
    message="tns1:IAccessServiceSoap_GetAccessObject_AccessServerMessageFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IAccessServiceSoap\_GetAccessObject\_InputMessage** (section [3.2.4.20.1.1](#)) request message and the protocol server responds with an **IAccessServiceSoap\_GetAccessObject\_OutputMessage** (section [3.2.4.20.1.2](#)) response message as follows:

- If an error occurs on the protocol server during this operation, the protocol server MUST respond with a SOAP fault, as specified in section [2.2.9](#).
- Otherwise, the protocol server MUST respond with an **IAccessServiceSoap\_GetAccessObject\_OutputMessage** response message that contains information about the requested object.

#### 3.2.4.20.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

| Message  | Description  |
|--|--|
| IAccessServiceSoap_GetAccessObject_InputMessage  | The request WSDL message for the <b>GetAccessObject</b> WSDL operation.  |
| IAccessServiceSoap_GetAccessObject_OutputMessage | The response WSDL message for the <b>GetAccessObject</b> WSDL operation. |

##### 3.2.4.20.1.1 IAccessServiceSoap\_GetAccessObject\_InputMessage

The request WSDL message for the **GetAccessObject** WSDL operation.

The SOAP action value is:

The SOAP body contains the **GetAccessObject** element.

### 3.2.4.20.1.2 IAccessServiceSoap\_GetAccessObject\_OutputMessage

The response WSDL message for the **GetAccessObject** WSDL operation.

The SOAP body contains the **GetAccessObjectResponse** element.

### 3.2.4.20.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

| Element                 | Description  |
|-------------------------|--|
| GetAccessObject         | The input data for the <b>GetAccessObject</b> WSDL operation.  |
| GetAccessObjectResponse | The result data for the <b>GetAccessObject</b> WSDL operation. |

#### 3.2.4.20.2.1 GetAccessObject

The input data for the **GetAccessObject** WSDL operation.

```
<xs:element name="GetAccessObject" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="commandParameter"
type="tns1:CommandParameter"/>
      <xs:element minOccurs="0" maxOccurs="1" name="container" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="parameters" type="tns1:GetParameters"/>
      <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="userCookieId" type="q1:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**commandParameter:** A **CommandParameter**, as specified in section [2.2.4.3](#). MUST be present.

**container:** A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the absolute URL to the current site (2) on which the operation is to be performed. MUST be present.

**parameters:** A **GetParameters** element ([\[MS-AADT\]](#) section 3.1.4.3.3.1) that specifies the information that the protocol server needs to retrieve an object. MUST be present.

**userCookieId:** A **guid** (section [2.2.5.5](#)) that specifies an identifier for the operation. SHOULD be ignored by the protocol server.

#### 3.2.4.20.2.2 GetAccessObjectResponse

The result data for the **GetAccessObject** WSDL operation.



```

<xs:element name="GetAccessObjectResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="GetAccessObjectResult"
type="tns1:CommandResult"/>
      <xs:element minOccurs="0" maxOccurs="1" name="result" type="tns1:GetResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**GetAccessObjectResult:** A **CommandResult**, as specified in section [2.2.4.4](#). MUST be present.

**result:** A **GetAccessObjectResult** element ([\[MS-AADT\]](#) section 3.1.4.3.3.2) that specifies information about the requested object for the protocol client to use.

### 3.2.4.20.3 Complex Types

None.

### 3.2.4.20.4 Simple Types

None.

### 3.2.4.20.5 Attributes

None.

### 3.2.4.20.6 Groups

None.

### 3.2.4.20.7 Attribute Groups

None.

### 3.2.4.21 GetApplicationInformation

This operation retrieves information about a database application from the protocol server.

```

<wsdl:operation name="GetApplicationInformation"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/GetApplicationInformation"
message="tns1:IAccessServiceSoap_GetApplicationInformation_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/GetApplicationInformationResponse"
message="tns1:IAccessServiceSoap_GetApplicationInformation_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/GetApplicationInformationAccessServerMessageFault"
name="AccessServerMessageFault"
message="tns1:IAccessServiceSoap_GetApplicationInformation_AccessServerMessageFault_FaultMess
age" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>

```

</wsdl:operation>

The protocol client sends a **IAccessServiceSoap\_GetApplicationInformation\_InputMessage** (section [3.2.4.21.1.1](#)) request message and the protocol server responds with a **IAccessServiceSoap\_GetApplicationInformation\_OutputMessage** (section [3.2.4.21.1.2](#)) response message as follows:

- If an error occurs on the protocol server during this operation, the protocol server MUST respond with a SOAP fault, as specified by section [2.2.9.1](#).
- Otherwise, the protocol server MUST respond with a **IAccessServiceSoap\_GetApplicationInformation\_OutputMessage** response message that contains information about the requested database application.

### 3.2.4.21.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

| Message  | Description  |
|--|--|
| IAccessServiceSoap_GetApplicationInformation_InputMessage  | The request WSDL message for the <b>GetApplicationInformation</b> WSDL operation.  |
| IAccessServiceSoap_GetApplicationInformation_OutputMessage | The response WSDL message for the <b>GetApplicationInformation</b> WSDL operation. |

#### 3.2.4.21.1.1 IAccessServiceSoap\_GetApplicationInformation\_InputMessage

The request WSDL message for the **GetApplicationInformation** WSDL operation.

The SOAP action value is:

```
http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/GetApplicationInformation
```

The SOAP body contains the **GetApplicationInformation** element.

#### 3.2.4.21.1.2 IAccessServiceSoap\_GetApplicationInformation\_OutputMessage

The response WSDL message for the **GetApplicationInformation** WSDL operation.

The SOAP body contains the **GetApplicationInformationResponse** element.

### 3.2.4.21.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

| Element                           | Description  |
|-----------------------------------|--|
| GetApplicationInformation         | The input data for the <b>GetApplicationInformation</b> WSDL operation.  |
| GetApplicationInformationResponse | The result data for the <b>GetApplicationInformation</b> WSDL operation. |

### 3.2.4.21.2.1 GetApplicationInformation

The input data for the **GetApplicationInformation** WSDL operation.

```
<xs:element name="GetApplicationInformation" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="commandParameter"
type="tns1:CommandParameter"/>
      <xs:element minOccurs="0" maxOccurs="1" name="container" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="parameters"
type="tns1:GetApplicationInformationParameters"/>
      <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="userCookieId" type="q1:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**commandParameter:** A **CommandParameter**, as specified in section [2.2.4.3](#). MUST be present.

**container:** A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the absolute URL to the current site (2) on which the operation is to be performed. MUST be present.

**parameters:** A **GetApplicationInformationParameters** element ([\[MS-AADT\]](#) section 3.1.4.4.3.1) that specifies the information that the protocol server needs to identify and retrieve a database application. MUST be present.

**userCookieId:** A **guid** (section [2.2.5.5](#)) that specifies an identifier for the operation. SHOULD be ignored by the protocol server.

### 3.2.4.21.2.2 GetApplicationInformationResponse

The result data for the **GetApplicationInformation** WSDL operation.

```
<xs:element name="GetApplicationInformationResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="GetApplicationInformationResult"
type="tns1:CommandResult"/>
      <xs:element minOccurs="0" maxOccurs="1" name="result" type="tns1:GetAppInfoResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetApplicationInformationResult:** A **CommandResult**, as specified in section [2.2.4.4](#). MUST be present.

**result:** A **GetAppInfoResult** element ([\[MS-AADT\]](#) section 3.1.4.4.3.3) that specifies information about the requested database application.

### 3.2.4.21.3 Complex Types

None.

### 3.2.4.21.4 Simple Types

None.

### 3.2.4.21.5 Attributes

None.

### 3.2.4.21.6 Groups

None.

### 3.2.4.21.7 Attribute Groups

None.

## 3.2.4.22 GetApplicationProperties

This operation retrieves a set of property values that exist in a database application.

```
<wsdl:operation name="GetApplicationProperties"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/GetApplicationProperties"
message="tns1:IAccessServiceSoap_GetApplicationProperties_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/GetApplicationPropertiesResponse"
message="tns1:IAccessServiceSoap_GetApplicationProperties_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/GetApplicationPropertiesAccessServerMessageFault"
name="AccessServerMessageFault"
message="tns1:IAccessServiceSoap_GetApplicationProperties_AccessServerMessageFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IAccessServiceSoap\_GetApplicationProperties\_InputMessage** (section [3.2.4.22.1.1](#)) request message and the protocol server responds with an **IAccessServiceSoap\_GetApplicationProperties\_OutputMessage** (section [3.2.4.22.1.2](#)) response message as follows:

- If an error occurs on the protocol server during this operation, the protocol server MUST respond with a SOAP fault, as specified by section [2.2.9](#).
- Otherwise, the protocol server MUST respond with an **IAccessServiceSoap\_GetApplicationProperties\_OutputMessage** response message that

contains a set of property values, as specified in [MS-AADT] section 3.1.4.12.3.4. The returned set of property values MUST contain a value as specified by **ApplicationPropertyValue** ([MS-AADT] section 2.2.4.13) for each property requested by the protocol client in the **Name** attribute of the **ApplicationPropertyName** element ([MS-AADT] section 3.1.4.12.3.2).

### 3.2.4.22.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

| Message   | Description   |
|---|---|
| IAccessServiceSoap_GetApplicationProperties_InputMessage  | The request WSDL message for the <b>GetApplicationProperties</b> WSDL operation.  |
| IAccessServiceSoap_GetApplicationProperties_OutputMessage | The response WSDL message for the <b>GetApplicationProperties</b> WSDL operation. |

#### 3.2.4.22.1.1 IAccessServiceSoap\_GetApplicationProperties\_InputMessage

The request WSDL message for the **GetApplicationProperties** WSDL operation.

The SOAP action value is:

```
http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/GetApplicationProperties
```

The SOAP body contains the **GetApplicationProperties** element.

#### 3.2.4.22.1.2 IAccessServiceSoap\_GetApplicationProperties\_OutputMessage

The response WSDL message for the **GetApplicationProperties** WSDL operation.

The SOAP body contains the **GetApplicationPropertiesResponse** element.

### 3.2.4.22.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

| Element                          | Description   |
|----------------------------------|---|
| GetApplicationProperties         | The input data for the <b>GetApplicationProperties</b> WSDL operation.  |
| GetApplicationPropertiesResponse | The result data for the <b>GetApplicationProperties</b> WSDL operation. |

#### 3.2.4.22.2.1 GetApplicationProperties

The input data for the **GetApplicationProperties** WSDL operation.

```
<xs:element name="GetApplicationProperties" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
```

```

    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="commandParameter"
type="tns1:CommandParameter"/>
      <xs:element minOccurs="0" maxOccurs="1" name="container" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="parameters"
type="tns1:GetApplicationPropertiesParameters"/>
      <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="userCookieId" type="q1:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**commandParameter:** A **CommandParameter**, as specified in section [2.2.4.3](#). MUST be present.

**container:** A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the absolute URL to the current site (2) on which the operation is to be performed. MUST be present.

**parameters:** A **GetApplicationPropertiesParameters** element ([\[MS-AADT\]](#) section 3.1.4.12.3.1) that specifies the properties to retrieve. MUST be present.

**userCookieId:** A **guid** (section [2.2.5.5](#)) that specifies an identifier for the operation. SHOULD be ignored by the protocol server.

### 3.2.4.22.2 GetApplicationPropertiesResponse

The result data for the **GetApplicationProperties** WSDL operation.

```

<xs:element name="GetApplicationPropertiesResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="GetApplicationPropertiesResult"
type="tns1:CommandResult"/>
      <xs:element minOccurs="0" maxOccurs="1" name="result"
type="tns1:GetApplicationPropertiesResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**GetApplicationPropertiesResult:** A **CommandResult**, as specified in section [2.2.4.4](#). MUST be present.

**result:** A **GetApplicationPropertiesResult** element ([\[MS-AADT\]](#) section 3.1.4.12.3.3) that specifies the values of each requested property.

### 3.2.4.22.3 Complex Types

None.

### 3.2.4.22.4 Simple Types

None.

### 3.2.4.22.5 Attributes

None.

### 3.2.4.22.6 Groups

None.

### 3.2.4.22.7 Attribute Groups

None.

### 3.2.4.23 GetDataConnectivity

This operation retrieves information about a login in the database application, which is used to connect to the database application directly.

```
<wsdl:operation name="GetDataConnectivity" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/GetDataConnectivity"
    message="tns1:IAccessServiceSoap_GetDataConnectivity_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/GetDataConnectivityResponse"
    message="tns1:IAccessServiceSoap_GetDataConnectivity_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/GetDataConnectivityAccessServerMessageFault"
    name="AccessServerMessageFault"
    message="tns1:IAccessServiceSoap_GetDataConnectivity_AccessServerMessageFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IAccessServiceSoap\_GetDataConnectivity\_InputMessage** (section [3.2.4.23.1.1](#)) request message and the protocol server responds with an **IAccessServiceSoap\_GetDataConnectivity\_OutputMessage** (section [3.2.4.23.1.2](#)) response message as follows:

- If an error occurs on the protocol server during this operation, the protocol server MUST respond with a SOAP fault, as specified in section [2.2.9](#).
- Otherwise, the protocol server MUST respond with an **IAccessServiceSoap\_GetDataConnectivity\_OutputMessage** response message that contains information about the requested login in the database application.

#### 3.2.4.23.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

| Message   | Description                      |
|---|----------------------------------|
| IAccessServiceSoap_GetDataConnectivity_InputMessage | The request WSDL message for the |

| Message  | Description  |
|--|--|
|  | <b>GetDataConnectivity</b> WSDL operation.                                   |
| IAccessServiceSoap_GetDataConnectivity_OutputMessage | The response WSDL message for the <b>GetDataConnectivity</b> WSDL operation. |

### 3.2.4.23.1.1 IAccessServiceSoap\_GetDataConnectivity\_InputMessage

The request WSDL message for the **GetDataConnectivity** WSDL operation.

The SOAP action value is:

```
http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/GetDataConnectivity
```

The SOAP body contains the **GetDataConnectivity** element.

### 3.2.4.23.1.2 IAccessServiceSoap\_GetDataConnectivity\_OutputMessage

The response WSDL message for the **GetDataConnectivity** WSDL operation.

The SOAP body contains the **GetDataConnectivityResponse** element.

### 3.2.4.23.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

| Element                     | Description  |
|-----------------------------|--|
| GetDataConnectivity         | The input data for the <b>GetDataConnectivity</b> WSDL operation.  |
| GetDataConnectivityResponse | The result data for the <b>GetDataConnectivity</b> WSDL operation. |

#### 3.2.4.23.2.1 GetDataConnectivity

The input data for the **GetDataConnectivity** WSDL operation.

```
<xs:element name="GetDataConnectivity" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="commandParameter"
type="tns1:CommandParameter"/>
      <xs:element minOccurs="0" maxOccurs="1" name="container" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="parameters"
type="tns1:GetDataConnectivityParameters"/>
      <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="userCookieId" type="q1:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**commandParameter:** A **CommandParameter**, as specified in section [2.2.4.3](#). MUST be present.



**container:** A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the absolute URL to the current site (2) on which the operation is to be performed. **MUST** be present.

**parameters:** A **GetDataConnectivityParameters** ([\[MS-AADT\]](#) section 3.1.4.13.3.1) that specifies permission level for a login in the database application, whose information is requested from the protocol server.

**userCookieId:** A **guid** (section [2.2.5.5](#)) that specifies an identifier for the operation. **SHOULD** be ignored by the protocol server.

### 3.2.4.23.2.2 GetDataConnectivityResponse

The result data for the **GetDataConnectivity** WSDL operation.

```
<xs:element name="GetDataConnectivityResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="GetDataConnectivityResult"
type="tns1:CommandResult"/>
      <xs:element minOccurs="0" maxOccurs="1" name="result"
type="tns1:GetDataConnectivityResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetDataConnectivityResult:** A **CommandResult**, as specified in section [2.2.4.4](#). **MUST** be present.

**result:** A **GetDataConnectivityResult** ([\[MS-AADT\]](#) section 3.1.4.13.3.2) that specifies information about the login in the database application with the requested permission level. Information such as login name and password are returned.

### 3.2.4.23.3 Complex Types

None.

### 3.2.4.23.4 Simple Types

None.

### 3.2.4.23.5 Attributes

None.

### 3.2.4.23.6 Groups

None.

### 3.2.4.23.7 Attribute Groups

None.

### 3.2.4.24 GetDataConnectivityStatus

This operation retrieves status information about logins in the database application, which are used to connect to the database application directly.

```
<wsdl:operation name="GetDataConnectivityStatus"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/GetDataConnectivityStatus"
message="tns1:IAccessServiceSoap_GetDataConnectivityStatus_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/GetDataConnectivityStatusResponse"
message="tns1:IAccessServiceSoap_GetDataConnectivityStatus_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/GetDataConnectivityStatusAccessServerMessageFault"
name="AccessServerMessageFault"
message="tns1:IAccessServiceSoap_GetDataConnectivityStatus_AccessServerMessageFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IAccessServiceSoap\_GetDataConnectivityStatus\_InputMessage** (section [3.2.4.24.1.1](#)) request message and the protocol server responds with an **IAccessServiceSoap\_GetDataConnectivityStatus\_OutputMessage** (section [3.2.4.24.1.2](#)) response message as follows:

- If an error occurs on the protocol server during this operation, the protocol server MUST respond with a SOAP fault, as specified in section [2.2.9](#).
- Otherwise, the protocol server MUST respond with an **IAccessServiceSoap\_GetDataConnectivityStatus\_OutputMessage** response message that contains status information about logins in the database application.

#### 3.2.4.24.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

| Message  | Description  |
|--|--|
| IAccessServiceSoap_GetDataConnectivityStatus_InputMessage  | The request WSDL message for the <b>GetDataConnectivityStatus</b> WSDL operation.  |
| IAccessServiceSoap_GetDataConnectivityStatus_OutputMessage | The response WSDL message for the <b>GetDataConnectivityStatus</b> WSDL operation. |

##### 3.2.4.24.1.1 IAccessServiceSoap\_GetDataConnectivityStatus\_InputMessage

The request WSDL message for the **GetDataConnectivityStatus** WSDL operation.

The SOAP action value is:

The SOAP body contains the **GetDataConnectivityStatus** element.

### 3.2.4.24.1.2 IAccessServiceSoap\_GetDataConnectivityStatus\_OutputMessage

The response WSDL message for the **GetDataConnectivityStatus** WSDL operation.

The SOAP body contains the **GetDataConnectivityStatusResponse** element.

### 3.2.4.24.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

| Element                           | Description  |
|-----------------------------------|--|
| GetDataConnectivityStatus         | The input data for the <b>GetDataConnectivityStatus</b> WSDL operation.  |
| GetDataConnectivityStatusResponse | The result data for the <b>GetDataConnectivityStatus</b> WSDL operation. |

#### 3.2.4.24.2.1 GetDataConnectivityStatus

The input data for the **GetDataConnectivityStatus** WSDL operation.

```
<xs:element name="GetDataConnectivityStatus" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="commandParameter"
type="tns1:CommandParameter"/>
      <xs:element minOccurs="0" maxOccurs="1" name="container" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="parameters"
type="tns1:GetDataConnectivityStatusParameters"/>
      <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="userCookieId" type="q1:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**commandParameter:** A **CommandParameter**, as specified in section [2.2.4.3](#). MUST be present.

**container:** A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the absolute URL to the current site (2) on which the operation is to be performed. MUST be present.

**parameters:** A **GetDataConnectivityStatusParameters** ([\[MS-AADT\]](#) section 3.1.4.14.3.1) that specifies input data for the **GetDataConnectivityStatus** protocol operation ([\[MS-AADT\]](#) section 3.1.4.14). MUST be present.

**userCookieId:** A **guid** (section [2.2.5.5](#)) that specifies an identifier for the operation. SHOULD be ignored by the protocol server.

### 3.2.4.24.2.2 GetDataConnectivityStatusResponse

The result data for the **GetDataConnectivityStatus** WSDL operation.

```
<xs:element name="GetDataConnectivityStatusResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="GetDataConnectivityStatusResult"
        type="tns1:CommandResult"/>
      <xs:element minOccurs="0" maxOccurs="1" name="result"
        type="tns1:GetDataConnectivityStatusResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetDataConnectivityStatusResult:** A **CommandResult**, as specified in section [2.2.4.4](#). MUST be present.

**result:** A **GetDataConnectivityStatusResult** ([\[MS-AADT\]](#) section 3.1.4.14.3.2) that specifies information about all the logins in database application, and if they are enabled or disabled. MUST be present.

### 3.2.4.24.3 Complex Types

None.

### 3.2.4.24.4 Simple Types

None.

### 3.2.4.24.5 Attributes

None.

### 3.2.4.24.6 Groups

None.

### 3.2.4.24.7 Attribute Groups

None.

### 3.2.4.25 GetFirewallRules

This operation retrieves all the **FirewallRules** ([\[MS-AADT\]](#) section 2.2.4.15) present in the database application.

```
<wsdl:operation name="GetFirewallRules" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
    erInternalService/IAccessServiceSoap/GetFirewallRules"
    message="tns1:IAccessServiceSoap_GetFirewallRules_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
```

```

erInternalService/IAccessServiceSoap/GetFirewallRulesResponse"
message="tnsl:IAccessServiceSoap_GetFirewallRules_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/GetFirewallRulesAccessServerMessageFault"
name="AccessServerMessageFault"
message="tnsl:IAccessServiceSoap_GetFirewallRules_AccessServerMessageFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends an **IAccessServiceSoap\_GetFirewallRules\_InputMessage** (section [3.2.4.25.1.1](#)) request message and the protocol server responds with an **IAccessServiceSoap\_GetFirewallRules\_OutputMessage** (section [3.2.4.25.1.2](#)) response message as follows:

- If an error occurs on the protocol server during this operation, the protocol server MUST respond with a SOAP fault, as specified in section [2.2.9](#).
- Otherwise, the protocol server MUST respond with an **IAccessServiceSoap\_GetFirewallRules\_OutputMessage** response message that contains information about all of the **FirewallRules** ([\[MS-AADT\]](#) section 2.2.4.15) that are present in the database application.

### 3.2.4.25.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

| Message   | Description   |
|---|---|
| IAccessServiceSoap_GetFirewallRules_InputMessage  | The request WSDL message for the <b>GetFirewallRules</b> WSDL operation.  |
| IAccessServiceSoap_GetFirewallRules_OutputMessage | The response WSDL message for the <b>GetFirewallRules</b> WSDL operation. |

#### 3.2.4.25.1.1 IAccessServiceSoap\_GetFirewallRules\_InputMessage

The request WSDL message for the **GetFirewallRules** WSDL operation.

The SOAP action value is:

```

http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalSer
vice/IAccessServiceSoap/GetFirewallRules

```

The SOAP body contains the **GetFirewallRules** element.

#### 3.2.4.25.1.2 IAccessServiceSoap\_GetFirewallRules\_OutputMessage

The response WSDL message for the **GetFirewallRules** WSDL operation.

The SOAP body contains the **GetFirewallRulesResponse** element.

### 3.2.4.25.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

| Element                  | Description   |
|--------------------------|---|
| GetFirewallRules         | The input data for the <b>GetFirewallRules</b> WSDL operation.  |
| GetFirewallRulesResponse | The result data for the <b>GetFirewallRules</b> WSDL operation. |

#### 3.2.4.25.2.1 GetFirewallRules

The input data for the **GetFirewallRules** WSDL operation.

```
<xs:element name="GetFirewallRules" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="commandParameter"
type="tns1:CommandParameter"/>
      <xs:element minOccurs="0" maxOccurs="1" name="container" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="parameters"
type="tns1:GetFirewallRulesParameters"/>
      <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="userCookieId" type="q1:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**commandParameter:** A **CommandParameter**, as specified in section [2.2.4.3](#). MUST be present.

**container:** A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the absolute URL to the current site (2) on which the operation is to be performed. MUST be present.

**parameters:** A **GetFirewallRulesParameters** ([\[MS-AADT\]](#) section 3.1.4.15.3.1) that specifies input data for the **GetFirewallRules** protocol operation ([\[MS-AADT\]](#) section 3.1.4.15).

**userCookieId:** A **guid** (section [2.2.5.5](#)) that specifies an identifier for the operation. SHOULD be ignored by the protocol server.

#### 3.2.4.25.2.2 GetFirewallRulesResponse

The result data for the **GetFirewallRules** WSDL operation.

```
<xs:element name="GetFirewallRulesResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="GetFirewallRulesResult"
type="tns1:CommandResult"/>
      <xs:element minOccurs="0" maxOccurs="1" name="result"
type="tns1:GetFirewallRulesResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetFirewallRulesResult:** A **CommandResult**, as specified in section [2.2.4.4](#). MUST be present.

**result:** A **GetFirewallRulesResult** ([\[MS-AADT\]](#) section 3.1.4.15.3.2) that specifies the information about all the **FirewallRules** ([\[MS-AADT\]](#) section 2.2.4.15) present in the database application. MUST be present.

### 3.2.4.25.3 Complex Types

None.

### 3.2.4.25.4 Simple Types

None.

### 3.2.4.25.5 Attributes

None.

### 3.2.4.25.6 Groups

None.

### 3.2.4.25.7 Attribute Groups

None.

### 3.2.4.26 GetLinkedTableInformation

This operation retrieves information from the protocol server about a table in a database application.

```
<wsdl:operation name="GetLinkedTableInformation"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/GetLinkedTableInformation"
message="tns1:IAccessServiceSoap_GetLinkedTableInformation_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/GetLinkedTableInformationResponse"
message="tns1:IAccessServiceSoap_GetLinkedTableInformation_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/GetLinkedTableInformationAccessServerMessageFault"
name="AccessServerMessageFault"
message="tns1:IAccessServiceSoap_GetLinkedTableInformation_AccessServerMessageFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IAccessServiceSoap\_GetLinkedTableInformation\_InputMessage** (section [3.2.4.26.1.1](#)) request message and the protocol server responds with an **IAccessServiceSoap\_GetLinkedTableInformation\_OutputMessage** (section [3.2.4.26.1.2](#)) response message as follows:

- If an error occurs on the protocol server during this operation, the protocol server MUST respond with a SOAP fault, as specified by section [2.2.9.1](#).

- Otherwise, the protocol server MUST respond with a **IAccessServiceSoap\_GetLinkedTableInformation\_OutputMessage** response message that contains information about the requested table.

### 3.2.4.26.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

| Message  | Description  |
|--|--|
| IAccessServiceSoap_GetLinkedTableInformation_InputMessage  | The request WSDL message for the <b>GetLinkedTableInformation</b> WSDL operation.  |
| IAccessServiceSoap_GetLinkedTableInformation_OutputMessage | The response WSDL message for the <b>GetLinkedTableInformation</b> WSDL operation. |

#### 3.2.4.26.1.1 IAccessServiceSoap\_GetLinkedTableInformation\_InputMessage

The request WSDL message for the **GetLinkedTableInformation** WSDL operation.

The SOAP action value is:

```
http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/GetLinkedTableInformation
```

The SOAP body contains the **GetLinkedTableInformation** element.

#### 3.2.4.26.1.2 IAccessServiceSoap\_GetLinkedTableInformation\_OutputMessage

The response WSDL message for the **GetLinkedTableInformation** WSDL operation.

The SOAP body contains the **GetLinkedTableInformationResponse** element.

### 3.2.4.26.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

| Element                           | Description  |
|-----------------------------------|--|
| GetLinkedTableInformation         | The input data for the <b>GetLinkedTableInformation</b> WSDL operation.  |
| GetLinkedTableInformationResponse | The result data for the <b>GetLinkedTableInformation</b> WSDL operation. |

#### 3.2.4.26.2.1 GetLinkedTableInformation

The input data for the **GetLinkedTableInformation** WSDL operation.

```
<xs:element name="GetLinkedTableInformation" xmlns:xs="http://www.w3.org/2001/XMLSchema">
```



```

<xs:complexType>
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="1" name="commandParameter"
type="tnsl:CommandParameter"/>
    <xs:element minOccurs="0" maxOccurs="1" name="container" type="xs:string"/>
    <xs:element minOccurs="0" maxOccurs="1" name="parameters"
type="tnsl:GetLinkedTableInformationParameters"/>
    <xs:element xmlns:q1="http://microsoft.com/wsd1/types/" minOccurs="1" maxOccurs="1"
name="userCookieId" type="q1:guid"/>
  </xs:sequence>
</xs:complexType>
</xs:element>

```

**commandParameter:** A **CommandParameter**, as specified in section [2.2.4.3](#). MUST be present.

**container:** A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the absolute URL to the current site (2) on which the operation is to be performed. MUST be present.

**parameters:** A **GetLinkedTableInformationParameters** ([\[MS-AADT\]](#) section 3.1.4.5.3.1) element that specifies the table about which to retrieve information. MUST be present.

**userCookieId:** A **guid** (section [2.2.5.5](#)) that specifies an identifier for the operation. SHOULD be ignored by the protocol server.

### 3.2.4.26.2.2 GetLinkedTableInformationResponse

The result data for the **GetLinkedTableInformation** WSDL operation.

```

<xs:element name="GetLinkedTableInformationResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="GetLinkedTableInformationResult"
type="tnsl:CommandResult"/>
      <xs:element minOccurs="0" maxOccurs="1" name="result"
type="tnsl:GetLinkedTableInformationResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**GetLinkedTableInformationResult:** A **CommandResult**, as specified in section [2.2.4.4](#). MUST be present.

**result:** A **GetLinkedTableInformationResult** ([\[MS-AADT\]](#) section 3.1.4.5.3.2) element that specifies information about the requested table.

### 3.2.4.26.3 Complex Types

None.

### 3.2.4.26.4 Simple Types

None.

### 3.2.4.26.5 Attributes

None.

### 3.2.4.26.6 Groups

None.

### 3.2.4.26.7 Attribute Groups

None.

### 3.2.4.27 GetThemeList

This operation retrieves a list of themes that can be applied to a database application.

```
<wsdl:operation name="GetThemeList" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/GetThemeList"
    message="tns1:IAccessServiceSoap_GetThemeList_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/GetThemeListResponse"
    message="tns1:IAccessServiceSoap_GetThemeList_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/GetThemeListAccessServerMessageFault"
    name="AccessServerMessageFault"
    message="tns1:IAccessServiceSoap_GetThemeList_AccessServerMessageFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IAccessServiceSoap\_GetThemeList\_InputMessage** (section [3.2.4.27.1.1](#)) request message and the protocol server responds with an **IAccessServiceSoap\_GetThemeList\_OutputMessage** (section [3.2.4.27.1.2](#)) response message as follows:

- If an error occurs on the protocol server during this operation, the protocol server MUST respond with a SOAP fault, as specified by section [2.2.9](#).
- Otherwise, the protocol server MUST respond with an **IAccessServiceSoap\_GetThemeList\_OutputMessage** response message. The response message describes a set of themes that can be applied to a database application, including the theme's name, colors, and location.

#### 3.2.4.27.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

| Message                                      | Description  |
|--|--|
| IAccessServiceSoap_GetThemeList_InputMessage | The request WSDL message for the <b>GetThemeList</b> |

| Message                                       | Description   |
|---|---|
|   | WSDL operation.   |
| IAccessServiceSoap_GetThemeList_OutputMessage | The response WSDL message for the <b>GetThemeList</b> WSDL operation. |

### 3.2.4.27.1.1 IAccessServiceSoap\_GetThemeList\_InputMessage

The request WSDL message for the **GetThemeList** WSDL operation.

The SOAP action value is:

```
http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/GetThemeList
```

The SOAP body contains the **GetThemeList** element.

### 3.2.4.27.1.2 IAccessServiceSoap\_GetThemeList\_OutputMessage

The response WSDL message for the **GetThemeList** WSDL operation.

The SOAP body contains the **GetThemeListResponse** element.

### 3.2.4.27.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

| Element              | Description   |
|----------------------|---|
| GetThemeList         | The input data for the <b>GetThemeList</b> WSDL operation.  |
| GetThemeListResponse | The result data for the <b>GetThemeList</b> WSDL operation. |

#### 3.2.4.27.2.1 GetThemeList

The input data for the **GetThemeList** WSDL operation.

```
<xs:element name="GetThemeList" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="commandParameter"
type="tns1:CommandParameter"/>
      <xs:element minOccurs="0" maxOccurs="1" name="container" type="xs:string"/>
      <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="userCookieId" type="q1:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**commandParameter:** A **CommandParameter**, as specified in section [2.2.4.3](#). MUST be present.

**container:** A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the absolute URL to the current site (2) on which the operation is to be performed. **MUST** be present.

**userCookieId:** A **guid** (section [2.2.5.5](#)) that specifies an identifier for the operation. **SHOULD** be ignored by the protocol server.

### 3.2.4.27.2 GetThemeListResponse

The result data for the **GetThemeList** WSDL operation.

```
<xs:element name="GetThemeListResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="GetThemeListResult"
type="tnsl:CommandResult"/>
      <xs:element minOccurs="0" maxOccurs="1" name="result" type="tnsl:GetThemeListResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetThemeListResult:** A **CommandResult**, as specified in section [2.2.4.4](#). **MUST** be present.

**result:** A **GetThemeListResult** element ([\[MS-AADT\]](#) section 3.1.4.16.3.1) that specifies a list of themes.

### 3.2.4.27.3 Complex Types

None.

### 3.2.4.27.4 Simple Types

None.

### 3.2.4.27.5 Attributes

None.

### 3.2.4.27.6 Groups

None.

### 3.2.4.27.7 Attribute Groups

None.

### 3.2.4.28 ImportData

This operation triggers importing data into a table in a database application.

```
<wsdl:operation name="ImportData" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/ImportData"
message="tnsl:IAccessServiceSoap_ImportData_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
```

```

    <wsdl:output
      wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/ImportDataResponse"
      message="tnsl:IAccessServiceSoap_ImportData_OutputMessage"
      xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
    <wsdl:fault
      wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/ImportDataAccessServerMessageFault"
      name="AccessServerMessageFault"
      message="tnsl:IAccessServiceSoap_ImportData_AccessServerMessageFault_FaultMessage"
      xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  </wsdl:operation>

```

The protocol client sends an **IAccessServiceSoap\_ImportData\_InputMessage** (section [3.2.4.28.1.1](#)) request message and the protocol server responds with an **IAccessServiceSoap\_ImportData\_OutputMessage** (section [3.2.4.28.1.2](#)) response message as follows:

- If an error occurs on the protocol server during this operation, the protocol server MUST respond with a SOAP fault, as specified by section [2.2.9](#).
- Otherwise, the protocol server MUST respond with a **IAccessServiceSoap\_ImportData\_OutputMessage** response message that contains the number of rows inserted into the specified table.

### 3.2.4.28.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

| Message                                     | Description   |
|---|---|
| IAccessServiceSoap_ImportData_InputMessage  | The request WSDL message for the <b>ImportData</b> WSDL operation.  |
| IAccessServiceSoap_ImportData_OutputMessage | The response WSDL message for the <b>ImportData</b> WSDL operation. |

#### 3.2.4.28.1.1 IAccessServiceSoap\_ImportData\_InputMessage

The request WSDL message for the **ImportData** WSDL operation.

The SOAP action value is:

```

http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/ImportData

```

The SOAP body contains the **ImportData** element.

#### 3.2.4.28.1.2 IAccessServiceSoap\_ImportData\_OutputMessage

The response WSDL message for the **ImportData** WSDL operation.

The SOAP body contains the **ImportDataResponse** element.

### 3.2.4.28.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

| Element            | Description   |
|--------------------|---|
| ImportData         | The input data for the <b>ImportData</b> WSDL operation.  |
| ImportDataResponse | The result data for the <b>ImportData</b> WSDL operation. |

#### 3.2.4.28.2.1 ImportData

The input data for the **ImportData** WSDL operation.

```
<xs:element name="ImportData" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="commandParameter"
type="tns1:CommandParameter"/>
      <xs:element minOccurs="0" maxOccurs="1" name="container" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="parameters"
type="tns1:ImportDataParameters"/>
      <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="userCookieId" type="q1:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**commandParameter:** A **CommandParameter**, as specified in section [2.2.4.3](#). MUST be present.

**container:** A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the absolute URL to the current site (2) on which the operation is to be performed. MUST be present.

**parameters:** An **ImportDataParameters** element ([\[MS-AADT\]](#) section 3.1.4.17.3.1) that specifies the information that the protocol server needs to import data.

**userCookieId:** A **guid** (section [2.2.5.5](#)) that specifies an identifier for the operation. SHOULD be ignored by the protocol server.

#### 3.2.4.28.2.2 ImportDataResponse

The result data for the **ImportData** WSDL operation.

```
<xs:element name="ImportDataResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="ImportDataResult"
type="tns1:CommandResult"/>
      <xs:element minOccurs="0" maxOccurs="1" name="result" type="tns1:ImportDataResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**ImportDataResult:** A **CommandResult**, as specified in section [2.2.4.4](#). MUST be present.

**result:** An **ImportDataResult** element ([\[MS-AADT\]](#) section 3.1.4.17.3.2) that specifies the result of import data operation.

### 3.2.4.28.3 Complex Types

None.

### 3.2.4.28.4 Simple Types

None.

### 3.2.4.28.5 Attributes

None.

### 3.2.4.28.6 Groups

None.

### 3.2.4.28.7 Attribute Groups

None.

## 3.2.4.29 RefreshLinkedTableInformation

This operation refreshes an existing **linked table** ([\[MS-AXL2\]](#) section 2.1.1.6) in a database application on the protocol server. The protocol server uses the **ID** attribute in the **RefreshLinkedTableInformationParameters** ([\[MS-AADT\]](#) section 3.1.4.18.3.1) element to identify the **linked table** ([\[MS-AXL2\]](#) section 2.1.1.6) in the database application, updates its definition from the source of the **linked table** ([\[MS-AXL2\]](#) section 2.1.1.6), and returns the updated definition to the protocol client.

```
<wsdl:operation name="RefreshLinkedTableInformation"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/RefreshLinkedTableInformation"
    message="tns1:IAccessServiceSoap_RefreshLinkedTableInformation_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/RefreshLinkedTableInformationResponse"
    message="tns1:IAccessServiceSoap_RefreshLinkedTableInformation_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/RefreshLinkedTableInformationAccessServerMessageFault"
    name="AccessServerMessageFault"
    message="tns1:IAccessServiceSoap_RefreshLinkedTableInformation_AccessServerMessageFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IAccessServiceSoap\_RefreshLinkedTableInformation\_InputMessage** (section [3.2.4.29.1.1](#)) request message and the protocol server responds with an

**IAccessServiceSoap\_RefreshLinkedTableInformation\_OutputMessage** (section [3.2.4.29.1.2](#)) response message as follows:

- If an error occurs on the protocol server during this operation, the protocol server **MUST** respond with a SOAP fault, as specified by section [2.2.9](#).
- Otherwise, the protocol server **MUST** respond with an **IAccessServiceSoap\_RefreshLinkedTableInformation\_OutputMessage** response message that contains information about the requested table.

### 3.2.4.29.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

| Message  | Description  |
|--|--|
| IAccessServiceSoap_RefreshLinkedTableInformation_InputMessage  | The request WSDL message for the <b>RefreshLinkedTableInformation</b> WSDL operation.  |
| IAccessServiceSoap_RefreshLinkedTableInformation_OutputMessage | The response WSDL message for the <b>RefreshLinkedTableInformation</b> WSDL operation. |

#### 3.2.4.29.1.1 IAccessServiceSoap\_RefreshLinkedTableInformation\_InputMessage

The request WSDL message for the **RefreshLinkedTableInformation** WSDL operation.

The SOAP action value is:

```
http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/RefreshLinkedTableInformation
```

The SOAP body contains the **RefreshLinkedTableInformation** element.

#### 3.2.4.29.1.2

#### IAccessServiceSoap\_RefreshLinkedTableInformation\_OutputMessage

The response WSDL message for the **RefreshLinkedTableInformation** WSDL operation.

The SOAP body contains the **RefreshLinkedTableInformationResponse** element.

### 3.2.4.29.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

| Element                               | Description   |
|---------------------------------------|---|
| RefreshLinkedTableInformation         | The input data for the <b>RefreshLinkedTableInformation</b> WSDL operation. |
| RefreshLinkedTableInformationResponse | The result data for the <b>RefreshLinkedTableInformation</b>                |



| Element | Description     |
|---------|-----------------|
|         | WSDL operation. |

### 3.2.4.29.2.1 RefreshLinkedTableInformation

The input data for the **RefreshLinkedTableInformation** WSDL operation.

```
<xs:element name="RefreshLinkedTableInformation" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="commandParameter"
type="tns1:CommandParameter"/>
      <xs:element minOccurs="0" maxOccurs="1" name="container" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="parameters"
type="tns1:RefreshLinkedTableInformationParameters"/>
      <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="userCookieId" type="q1:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**commandParameter:** A **CommandParameter**, as specified in section [2.2.4.3](#). MUST be present.

**container:** A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the absolute URL to the current site (2) on which the operation is to be performed. MUST be present.

**parameters:** A **RefreshLinkedTableInformationParameters** ([\[MS-AADT\]](#) section 3.1.4.18.3.1) element that specifies the table about which to retrieve information. MUST be present.

**userCookieId:** A **guid** (section [2.2.5.5](#)) that specifies an identifier for the operation. SHOULD be ignored by the protocol server.

### 3.2.4.29.2.2 RefreshLinkedTableInformationResponse

The result data for the **RefreshLinkedTableInformation** WSDL operation.

```
<xs:element name="RefreshLinkedTableInformationResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="RefreshLinkedTableInformationResult"
type="tns1:CommandResult"/>
      <xs:element minOccurs="0" maxOccurs="1" name="result"
type="tns1:RefreshLinkedTableInformationResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**RefreshLinkedTableInformationResult:** A **CommandResult**, as specified in section [2.2.4.4](#). MUST be present.

**result:** A **RefreshLinkedTableInformationResult** ([\[MS-AADT\]](#) section 3.1.4.18.3.2) element that specifies information about the requested table. MUST be present.

### 3.2.4.29.3 Complex Types

None.

### 3.2.4.29.4 Simple Types

None.

### 3.2.4.29.5 Attributes

None.

### 3.2.4.29.6 Groups

None.

### 3.2.4.29.7 Attribute Groups

None.

### 3.2.4.30 RenameAccessObject

This operation changes the name of an object in a database application.

```
<wsdl:operation name="RenameAccessObject" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/RenameAccessObject"
    message="tnsl:IAccessServiceSoap_RenameAccessObject_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/RenameAccessObjectResponse"
    message="tnsl:IAccessServiceSoap_RenameAccessObject_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/RenameAccessObjectAccessServerMessageFault"
    name="AccessServerMessageFault"
    message="tnsl:IAccessServiceSoap_RenameAccessObject_AccessServerMessageFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IAccessServiceSoap\_RenameAccessObject\_InputMessage** (section [3.2.4.30.1.1](#)) request message and the protocol server responds with an **IAccessServiceSoap\_RenameAccessObject\_OutputMessage** (section [3.2.4.30.1.2](#)) response message as follows:

- If the **ObjectVersion** attribute specified in the **parameters** element in the **RenameAccessObject** element (section [3.2.4.30.2.1](#)) does not match the version token on the protocol server for the object being renamed, the protocol server MUST respond with a **IAccessServiceSoap\_RenameAccessObject\_OutputMessage** response message that contains the current definition of the indicated object and a **ServiceError** element as specified by [\[MS-AADT\]](#) section 2.2.4.7, and MUST NOT rename the object.
- If an error occurs on the protocol server during this operation, the protocol server MUST send a SOAP fault, as specified by section [2.2.9](#).

- Otherwise, the protocol server MUST respond with a **IAccessServiceSoap\_RenameAccessObject\_OutputMessage** response message that contains the specified information about the renamed object.

### 3.2.4.30.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

| Message   | Description   |
|---|---|
| IAccessServiceSoap_RenameAccessObject_InputMessage  | The request WSDL message for the <b>RenameAccessObject</b> WSDL operation.  |
| IAccessServiceSoap_RenameAccessObject_OutputMessage | The response WSDL message for the <b>RenameAccessObject</b> WSDL operation. |

#### 3.2.4.30.1.1 IAccessServiceSoap\_RenameAccessObject\_InputMessage

The request WSDL message for the **RenameAccessObject** WSDL operation.

The SOAP action value is:

```
http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/RenameAccessObject
```

The SOAP body contains the **RenameAccessObject** element.

#### 3.2.4.30.1.2 IAccessServiceSoap\_RenameAccessObject\_OutputMessage

The response WSDL message for the **RenameAccessObject** WSDL operation.

The SOAP body contains the **RenameAccessObjectResponse** element.

### 3.2.4.30.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

| Element                    | Description   |
|----------------------------|---|
| RenameAccessObject         | The input data for the <b>RenameAccessObject</b> WSDL operation.  |
| RenameAccessObjectResponse | The result data for the <b>RenameAccessObject</b> WSDL operation. |

#### 3.2.4.30.2.1 RenameAccessObject

The input data for the **RenameAccessObject** WSDL operation.

```
<xs:element name="RenameAccessObject" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="commandParameter"
        type="tns1:CommandParameter"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

```

    <xs:element minOccurs="0" maxOccurs="1" name="container" type="xs:string"/>
    <xs:element minOccurs="0" maxOccurs="1" name="parameters"
type="tns1:RenameParameters"/>
    <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="userCookieId" type="q1:guid"/>
  </xs:sequence>
</xs:complexType>
</xs:element>

```

**commandParameter:** A **CommandParameter**, as specified in section [2.2.4.3](#). MUST be present.

**container:** A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the absolute URL to the current site (2) on which the operation is to be performed. MUST be present.

**parameters:** A **RenameParameters** element ([\[MS-AADT\]](#) section 3.1.4.6.3.1) that specifies the information that the protocol server needs to rename an object. MUST be present.

**userCookieId:** A **guid** (section [2.2.5.5](#)) that specifies an identifier for the operation. SHOULD be ignored by the protocol server.

### 3.2.4.30.2 RenameAccessObjectResponse

The result data for the **RenameAccessObject** WSDL operation.

```

<xs:element name="RenameAccessObjectResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="RenameAccessObjectResult"
type="tns1:CommandResult"/>
      <xs:element minOccurs="0" maxOccurs="1" name="result" type="tns1:RenameResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**RenameAccessObjectResult:** A **CommandResult**, as specified in section [2.2.4.4](#). MUST be present.

**result:** A **RenameResult** element ([\[MS-AADT\]](#) section 3.1.4.6.3.2) that specifies information about a renamed object for the protocol client to use.

### 3.2.4.30.3 Complex Types

None.

### 3.2.4.30.4 Simple Types

None.

### 3.2.4.30.5 Attributes

None.

### 3.2.4.30.6 Groups

None.

### 3.2.4.30.7 Attribute Groups

None.

### 3.2.4.31 SetApplicationProperties

This operation sets one or more properties on a database application.

```
<wsdl:operation name="SetApplicationProperties"
xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/SetApplicationProperties"
message="tns1:IAccessServiceSoap_SetApplicationProperties_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/SetApplicationPropertiesResponse"
message="tns1:IAccessServiceSoap_SetApplicationProperties_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/SetApplicationPropertiesAccessServerMessageFault"
name="AccessServerMessageFault"
message="tns1:IAccessServiceSoap_SetApplicationProperties_AccessServerMessageFault_FaultMessa
ge" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IAccessServiceSoap\_SetApplicationProperties\_InputMessage** (section [3.2.4.31.1.1](#)) request message and the protocol server responds with an **IAccessServiceSoap\_SetApplicationProperties\_OutputMessage** (section [3.2.4.31.1.2](#)) response message as follows:

- If an error occurs on the protocol server during this operation, the protocol server MUST respond with a SOAP fault, as specified by section [2.2.9](#).
- Otherwise, the protocol server MUST respond with an **IAccessServiceSoap\_SetApplicationProperties\_OutputMessage** response message.

#### 3.2.4.31.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

| Message   | Description   |
|---|---|
| IAccessServiceSoap_SetApplicationProperties_InputMessage  | The request WSDL message for the <b>SetApplicationProperties</b> WSDL operation.  |
| IAccessServiceSoap_SetApplicationProperties_OutputMessage | The response WSDL message for the <b>SetApplicationProperties</b> WSDL operation. |

##### 3.2.4.31.1.1 IAccessServiceSoap\_SetApplicationProperties\_InputMessage

The request WSDL message for the **SetApplicationProperties** WSDL operation.

The SOAP action value is:

```
http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/SetApplicationProperties
```

The SOAP body contains the **SetApplicationProperties** element.

### 3.2.4.31.1.2 IAccessServiceSoap\_SetApplicationProperties\_OutputMessage

The response WSDL message for the **SetApplicationProperties** WSDL operation.

The SOAP body contains the **SetApplicationPropertiesResponse** element.

### 3.2.4.31.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

| Element                          | Description   |
|----------------------------------|---|
| SetApplicationProperties         | The input data for the <b>SetApplicationProperties</b> WSDL operation.  |
| SetApplicationPropertiesResponse | The result data for the <b>SetApplicationProperties</b> WSDL operation. |

#### 3.2.4.31.2.1 SetApplicationProperties

The input data for the **SetApplicationProperties** WSDL operation.

```
<xs:element name="SetApplicationProperties" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="commandParameter"
type="tns1:CommandParameter"/>
      <xs:element minOccurs="0" maxOccurs="1" name="container" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="parameters"
type="tns1:SetApplicationPropertiesParameters"/>
      <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="userCookieId" type="q1:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**commandParameter:** A **CommandParameter**, as specified in section [2.2.4.3](#). MUST be present.

**container:** A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the absolute URL to the current site (2) on which the operation is to be performed. MUST be present.

**parameters:** A **SetApplicationPropertiesParameters** element ([\[MS-AADT\]](#) section 3.1.4.19.3.1) that specifies the properties and values to set.

**userCookieId:** A **guid** (section [2.2.5.5](#)) that specifies an identifier for the operation. SHOULD be ignored by the protocol server.

### 3.2.4.31.2.2 SetApplicationPropertiesResponse

The result data for the **SetApplicationProperties** WSDL operation.

```
<xs:element name="SetApplicationPropertiesResponse"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="SetApplicationPropertiesResult"
        type="tns1:CommandResult"/>
      <xs:element minOccurs="0" maxOccurs="1" name="result"
        type="tns1:SetApplicationPropertiesResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**SetApplicationPropertiesResult:** A **CommandResult**, as specified in section [2.2.4.4](#). MUST be present.

**result:** A **SetApplicationPropertiesResult** element ([\[MS-AADT\]](#) section 3.1.4.19.3.2) that specifies the result of setting the properties on the database application.

### 3.2.4.31.3 Complex Types

None.

### 3.2.4.31.4 Simple Types

None.

### 3.2.4.31.5 Attributes

None.

### 3.2.4.31.6 Groups

None.

### 3.2.4.31.7 Attribute Groups

None.

### 3.2.4.32 SetDataConnectivityStatus

This operation enables or disables a login in the database application, which is used to connect to the database application directly.

```
<wsdl:operation name="SetDataConnectivityStatus"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input>
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
    erInternalService/IAccessServiceSoap/SetDataConnectivityStatus"
    message="tns1:IAccessServiceSoap_SetDataConnectivityStatus_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl/"
  </wsdl:input>
  <wsdl:output>
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
```

```

erInternalService/IAccessServiceSoap/SetDataConnectivityStatusResponse"
message="tns1:IAccessServiceSoap_SetDataConnectivityStatus_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/SetDataConnectivityStatusAccessServerMessageFault"
name="AccessServerMessageFault"
message="tns1:IAccessServiceSoap_SetDataConnectivityStatus_AccessServerMessageFault_FaultMess
age" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends an **IAccessServiceSoap\_SetDataConnectivityStatus\_InputMessage** (section [3.2.4.32.1.1](#)) request message and the protocol server responds with an **IAccessServiceSoap\_SetDataConnectivityStatus\_OutputMessage** (section [3.2.4.32.1.2](#)) response message as follows:

- If an error occurs on the protocol server during this operation, the protocol server MUST respond with a SOAP fault, as specified in section [2.2.9](#).
- Otherwise, the protocol server MUST respond with an **IAccessServiceSoap\_SetDataConnectivityStatus\_OutputMessage** response message that contains information about the login which was enabled or disabled by the protocol operation.

### 3.2.4.32.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

| Message  | Description  |
|--|--|
| IAccessServiceSoap_SetDataConnectivityStatus_InputMessage  | The request WSDL message for the <b>SetDataConnectivityStatus</b> WSDL operation.  |
| IAccessServiceSoap_SetDataConnectivityStatus_OutputMessage | The response WSDL message for the <b>SetDataConnectivityStatus</b> WSDL operation. |

#### 3.2.4.32.1.1 IAccessServiceSoap\_SetDataConnectivityStatus\_InputMessage

The request WSDL message for the **SetDataConnectivityStatus** WSDL operation.

The SOAP action value is:

```

http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/SetDataConnectivityStatus

```

The SOAP body contains the **SetDataConnectivityStatus** element.

#### 3.2.4.32.1.2 IAccessServiceSoap\_SetDataConnectivityStatus\_OutputMessage

The response WSDL message for the **SetDataConnectivityStatus** WSDL operation.

The SOAP body contains the **SetDataConnectivityStatusResponse** element.



### 3.2.4.32.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

| Element                           | Description  |
|-----------------------------------|--|
| SetDataConnectivityStatus         | The input data for the <b>SetDataConnectivityStatus</b> WSDL operation.  |
| SetDataConnectivityStatusResponse | The result data for the <b>SetDataConnectivityStatus</b> WSDL operation. |

#### 3.2.4.32.2.1 SetDataConnectivityStatus

The input data for the **SetDataConnectivityStatus** WSDL operation.

```
<xs:element name="SetDataConnectivityStatus" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="commandParameter"
type="tns1:CommandParameter"/>
      <xs:element minOccurs="0" maxOccurs="1" name="container" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="parameters"
type="tns1:SetDataConnectivityStatusParameters"/>
      <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="userCookieId" type="q1:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**commandParameter:** A **CommandParameter**, as specified in section [2.2.4.3](#). MUST be present.

**container:** A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the absolute URL to the current site (2) on which the operation is to be performed. MUST be present.

**parameters:** A **SetDataConnectivityStatusParameter** ([\[MS-AADT\]](#) section 3.1.4.19.3.1) that specifies the permission level of a login and whether it is to be enabled or disabled. MUST be present.

**userCookieId:** A **guid** (section [2.2.5.5](#)) that specifies an identifier for the operation. SHOULD be ignored by the protocol server.

#### 3.2.4.32.2.2 SetDataConnectivityStatusResponse

The result data for the **SetDataConnectivityStatus** WSDL operation.

```
<xs:element name="SetDataConnectivityStatusResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="SetDataConnectivityStatusResult"
type="tns1:CommandResult"/>
      <xs:element minOccurs="0" maxOccurs="1" name="result"
type="tns1:SetDataConnectivityStatusResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

```
</xs:complexType>
</xs:element>
```

**SetDataConnectivityStatusResult:** A **CommandResult**, as specified in section [2.2.4.4](#). MUST be present.

**result:** A **SetDataConnectivityStatusResult** ([\[MS-AADT\]](#) section 3.1.4.19.3.2) that specifies whether enabling or disabling of the login with requested permission level was successful. MUST be present.

### 3.2.4.32.3 Complex Types

None.

### 3.2.4.32.4 Simple Types

None.

### 3.2.4.32.5 Attributes

None.

### 3.2.4.32.6 Groups

None.

### 3.2.4.32.7 Attribute Groups

None.

### 3.2.4.33 SetDataMacroTracing

This operation sets the data macro tracing option in a database application.

```
<wsdl:operation name="SetDataMacroTracing" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/SetDataMacroTracing"
    message="tns1:IAccessServiceSoap_SetDataMacroTracing_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/SetDataMacroTracingResponse"
    message="tns1:IAccessServiceSoap_SetDataMacroTracing_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/SetDataMacroTracingAccessServerMessageFault"
    name="AccessServerMessageFault"
    message="tns1:IAccessServiceSoap_SetDataMacroTracing_AccessServerMessageFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IAccessServiceSoap\_SetDataMacroTracing\_InputMessage** (section [3.2.4.33.1.1](#)) request message and the protocol server responds with an

**IAccessServiceSoap\_SetDataMacroTracing\_OutputMessage** (section [3.2.4.33.1.2](#)) response message as follows:

- If an error occurs on the protocol server during this operation, the protocol server **MUST** respond with a SOAP fault, as specified in section [2.2.9](#).
- Otherwise, the protocol server **MUST** respond with a **IAccessServiceSoap\_SetDataMacroTracing\_OutputMessage** response message that contains the information about the data macro tracing option.

### 3.2.4.33.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

| Message  | Description  |
|--|--|
| IAccessServiceSoap_SetDataMacroTracing_InputMessage  | The request WSDL message for the <b>SetDataMacroTracing</b> WSDL operation.  |
| IAccessServiceSoap_SetDataMacroTracing_OutputMessage | The response WSDL message for the <b>SetDataMacroTracing</b> WSDL operation. |

#### 3.2.4.33.1.1 IAccessServiceSoap\_SetDataMacroTracing\_InputMessage

The request WSDL message for the **SetDataMacroTracing** WSDL operation.

The SOAP action value is:

```
http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/SetDataMacroTracing
```

The SOAP body contains the **SetDataMacroTracing** element.

#### 3.2.4.33.1.2 IAccessServiceSoap\_SetDataMacroTracing\_OutputMessage

The response WSDL message for the **SetDataMacroTracing** WSDL operation.

The SOAP body contains the **SetDataMacroTracingResponse** element.

### 3.2.4.33.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

| Element                     | Description  |
|-----------------------------|--|
| SetDataMacroTracing         | The input data for the <b>SetDataMacroTracing</b> WSDL operation.  |
| SetDataMacroTracingResponse | The result data for the <b>SetDataMacroTracing</b> WSDL operation. |

#### 3.2.4.33.2.1 SetDataMacroTracing

The input data for the **SetDataMacroTracing** WSDL operation.

```

<xs:element name="SetDataMacroTracing" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="commandParameter"
type="tns1:CommandParameter"/>
      <xs:element minOccurs="0" maxOccurs="1" name="container" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="parameters"
type="tns1:SetDataMacroTracingParameters"/>
      <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="userCookieId" type="q1:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**commandParameter:** A **CommandParameter**, as specified in section [2.2.4.3](#). MUST be present.

**container:** A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the absolute URL to the current site (2) on which the operation is to be performed. MUST be present.

**parameters:** A **SetDataMacroTracingParameters** element ([\[MS-AADT\]](#) section 3.1.4.7.3.1) that specifies the information that the protocol server needs to set the data macro tracing option.

**userCookieId:** A **guid** (section [2.2.5.5](#)) that specifies an identifier for the operation. SHOULD be ignored by the protocol server.

### 3.2.4.33.2 SetDataMacroTracingResponse

The result data for the **SetDataMacroTracing** WSDL operation.

```

<xs:element name="SetDataMacroTracingResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="SetDataMacroTracingResult"
type="tns1:CommandResult"/>
      <xs:element minOccurs="0" maxOccurs="1" name="result"
type="tns1:SetDataMacroTracingResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**SetDataMacroTracingResult:** A **CommandResult**, as specified in section [2.2.4.4](#). MUST be present.

**result:** A **SetDataMacroTracingResult** element ([\[MS-AADT\]](#) section 3.1.4.7.3.2) that specifies information about the data macro tracing option for the protocol client to use.

### 3.2.4.33.3 Complex Types

None.

### 3.2.4.33.4 Simple Types

None.

### 3.2.4.33.5 Attributes

None.

### 3.2.4.33.6 Groups

None.

### 3.2.4.33.7 Attribute Groups

None.

### 3.2.4.34 UpdateAccessObject

This operation updates an object in a database application.

```
<wsdl:operation name="UpdateAccessObject" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/UpdateAccessObject"
    message="tns1:IAccessServiceSoap_UpdateAccessObject_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/UpdateAccessObjectResponse"
    message="tns1:IAccessServiceSoap_UpdateAccessObject_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/UpdateAccessObjectAccessServerMessageFault"
    name="AccessServerMessageFault"
    message="tns1:IAccessServiceSoap_UpdateAccessObject_AccessServerMessageFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IAccessServiceSoap\_UpdateAccessObject\_InputMessage** (section [3.2.4.34.1.1](#)) request message and the protocol server responds with an **IAccessServiceSoap\_UpdateAccessObject\_OutputMessage** (section [3.2.4.34.1.2](#)) response message as follows:

- If an error occurs on the protocol server during this operation, the protocol server MUST respond with either a SOAP fault, as specified by section [2.2.9](#), or a **ServiceError**, as specified by [\[MS-AADT\]](#) section 2.2.4.7.
- Otherwise, the protocol server MUST respond with an **IAccessServiceSoap\_UpdateAccessObject\_OutputMessage** response message that contains information about the updated object.

#### 3.2.4.34.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

| Message  | Description                      |
|--|----------------------------------|
| IAccessServiceSoap_UpdateAccessObject_InputMessage | The request WSDL message for the |

| Message   | Description   |
|---|---|
|   | <b>UpdateAccessObject</b> WSDL operation.                                   |
| IAccessServiceSoap_UpdateAccessObject_OutputMessage | The response WSDL message for the <b>UpdateAccessObject</b> WSDL operation. |

### 3.2.4.34.1.1 IAccessServiceSoap\_UpdateAccessObject\_InputMessage

The request WSDL message for the **UpdateAccessObject** WSDL operation.

The SOAP action value is:

```
http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/UpdateAccessObject
```

The SOAP body contains the **UpdateAccessObject** element.

### 3.2.4.34.1.2 IAccessServiceSoap\_UpdateAccessObject\_OutputMessage

The response WSDL message for the **UpdateAccessObject** WSDL operation.

The SOAP body contains the **UpdateAccessObjectResponse** element.

### 3.2.4.34.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

| Element                    | Description   |
|----------------------------|---|
| UpdateAccessObject         | The input data for the <b>UpdateAccessObject</b> WSDL operation.  |
| UpdateAccessObjectResponse | The result data for the <b>UpdateAccessObject</b> WSDL operation. |

#### 3.2.4.34.2.1 UpdateAccessObject

The input data for the **UpdateAccessObject** WSDL operation.

```
<xs:element name="UpdateAccessObject" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="commandParameter"
type="tns1:CommandParameter"/>
      <xs:element minOccurs="0" maxOccurs="1" name="container" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="parameters"
type="tns1:UpdateParameters"/>
      <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="userCookieId" type="q1:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**commandParameter:** A **CommandParameter**, as specified in section [2.2.4.3](#). MUST be present.

**container:** A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the absolute URL to the current site (2) on which the operation is to be performed. **MUST** be present.

**parameters:** An **UpdateParameters** ([\[MS-AADT\]](#) section 3.1.4.8.3.1) element that specifies information needed by the protocol server to update an object.

**userCookieId:** A **guid** (section [2.2.5.5](#)) that specifies an identifier for the operation. **SHOULD** be ignored by the protocol server.

### 3.2.4.34.2.2 UpdateAccessObjectResponse

The result data for the **UpdateAccessObject** WSDL operation.

```
<xs:element name="UpdateAccessObjectResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="UpdateAccessObjectResult"
        type="tns1:CommandResult"/>
      <xs:element minOccurs="0" maxOccurs="1" name="result" type="tns1:UpdateResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**UpdateAccessObjectResult:** A **CommandResult**, as specified in section [2.2.4.4](#). **MUST** be present.

**result:** An **UpdateResult** ([\[MS-AADT\]](#) section 3.1.4.8.3.2) element that specifies information about the updated object.

### 3.2.4.34.3 Complex Types

None.

### 3.2.4.34.4 Simple Types

None.

### 3.2.4.34.5 Attributes

None.

### 3.2.4.34.6 Groups

None.

### 3.2.4.34.7 Attribute Groups

None.

### 3.2.4.35 CheckCopyStatus

This operation retrieves the status of a **CopyDatabase** operation (section [3.2.4.36](#)).

```
<wsdl:operation name="CheckCopyStatus" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
```

```

<wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/CheckCopyStatus"
message="tns1:IAccessServiceSoap_CheckCopyStatus_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/CheckCopyStatusResponse"
message="tns1:IAccessServiceSoap_CheckCopyStatus_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/CheckCopyStatusAccessServerMessageFault"
name="AccessServerMessageFault"
message="tns1:IAccessServiceSoap_CheckCopyStatus_AccessServerMessageFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends an **IAccessServiceSoap\_CheckCopyStatus\_InputMessage** (section [3.2.4.35.1.1](#)) request message and the protocol server responds with an **IAccessServiceSoap\_CheckCopyStatus\_OutputMessage** (section [3.2.4.35.1.2](#)) response message as follows:

- If an error occurs on the protocol server during this operation, the protocol server MUST respond with a SOAP fault, as specified by section [2.2.9](#).
- Otherwise, the protocol server MUST respond with a **IAccessServiceSoap\_CheckCopyStatus\_OutputMessage** response message that contains the status of the copy operation.

### 3.2.4.35.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

| Message  | Description  |
|--|--|
| IAccessServiceSoap_CheckCopyStatus_InputMessage  | The request WSDL message for the <b>CheckCopyStatus</b> WSDL operation.  |
| IAccessServiceSoap_CheckCopyStatus_OutputMessage | The response WSDL message for the <b>CheckCopyStatus</b> WSDL operation. |

#### 3.2.4.35.1.1 IAccessServiceSoap\_CheckCopyStatus\_InputMessage

The request WSDL message for the **CheckCopyStatus** WSDL operation.

The SOAP action value is:

```

http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalSer
vice/IAccessServiceSoap/CheckCopyStatus

```

The SOAP body contains the **CheckCopyStatus** element.



### 3.2.4.35.1.2 IAccessServiceSoap\_CheckCopyStatus\_OutputMessage

The response WSDL message for the **CheckCopyStatus** WSDL operation.

The SOAP body contains the **CheckCopyStatusResponse** element.

### 3.2.4.35.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

| Element                 | Description  |
|-------------------------|--|
| CheckCopyStatus         | The input data for the <b>CheckCopyStatus</b> WSDL operation.  |
| CheckCopyStatusResponse | The result data for the <b>CheckCopyStatus</b> WSDL operation. |

#### 3.2.4.35.2.1 CheckCopyStatus

The input data for the **CheckCopyStatus** WSDL operation.

```
<xs:element name="CheckCopyStatus" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="commandParameter"
type="tns1:CommandParameter"/>
      <xs:element minOccurs="0" maxOccurs="1" name="sourceDatabase"
type="tns1:DatabaseContext"/>
      <xs:element minOccurs="0" maxOccurs="1" name="destinationDatabase"
type="tns1:DatabaseContext"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**commandParameter:** A **CommandParameter**, as specified in section [2.2.4.3](#). MUST be present.

**sourceDatabase:** A **DatabaseContext** (section [2.2.4.11](#)) that specifies information about the source database being copied. MUST match the **originalDatabaseContext** element of the **CopyDatabase** (section [3.2.4.36.2.1](#)) element supplied to an earlier **CopyDatabase** (section [3.2.4.36](#)) operation. MUST be present.

**destinationDatabase:** A **DatabaseContext** (section [2.2.4.11](#)) that specifies information about the copy of the database being created. MUST match the **DatabaseContext** element of the **provisionedDatabaseContext** element of the **CopyDatabaseResponse** (section [3.2.4.36.2.2](#)) element returned by an earlier **CopyDatabase** (section [3.2.4.36](#)) operation called with the **originalDatabaseContext** of the **CopyDatabase** (section [3.2.4.36.2.1](#)) element matching the **sourceDatabase** element. MUST be present.

#### 3.2.4.35.2.2 CheckCopyStatusResponse

The result data for the **CheckCopyStatus** WSDL operation.

```
<xs:element name="CheckCopyStatusResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
```

```

    <xs:element minOccurs="0" maxOccurs="1" name="CheckCopyStatusResult"
type="tns1:CommandResult"/>
    <xs:element minOccurs="1" maxOccurs="1" name="copyStatus" type="xs:unsignedByte"/>
  </xs:sequence>
</xs:complexType>
</xs:element>

```

**CheckCopyStatusResult:** A **CommandResult**, as specified in section [2.2.4.4](#). MUST be present.

**copyStatus:** An **unsignedByte** ([\[XMLSCHEMA2\]](#) section 3.3.24) that specifies the completion percentage of the copy operation. MUST have a value between 0 and 100, inclusive.

### 3.2.4.35.3 Complex Types

None.

### 3.2.4.35.4 Simple Types

None.

### 3.2.4.35.5 Attributes

None.

### 3.2.4.35.6 Groups

None.

### 3.2.4.35.7 Attribute Groups

None.

### 3.2.4.36 CopyDatabase

This operation instructs the protocol server to begin copying a database.

```

<wsdl:operation name="CopyDatabase" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/CopyDatabase"
message="tns1:IAccessServiceSoap_CopyDatabase_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/CopyDatabaseResponse"
message="tns1:IAccessServiceSoap_CopyDatabase_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/CopyDatabaseAccessServerMessageFault"
name="AccessServerMessageFault"
message="tns1:IAccessServiceSoap_CopyDatabase_AccessServerMessageFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends an **IAccessServiceSoap\_CopyDatabase\_InputMessage** (section [3.2.4.36.1.1](#)) request message and the protocol server responds with an **IAccessServiceSoap\_CopyDatabase\_OutputMessage** (section [3.2.4.36.1.2](#)) response message as follows:

- If an error occurs on the protocol server during this operation, the protocol server MUST respond with a SOAP fault, as specified by section [2.2.9](#).
- Otherwise, the protocol server MUST respond with a **IAccessServiceSoap\_CopyDatabase\_OutputMessage** response message that contains information about the copied database.

### 3.2.4.36.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

| Message                                       | Description   |
|---|---|
| IAccessServiceSoap_CopyDatabase_InputMessage  | The request WSDL message for the <b>CopyDatabase</b> WSDL operation.  |
| IAccessServiceSoap_CopyDatabase_OutputMessage | The response WSDL message for the <b>CopyDatabase</b> WSDL operation. |

#### 3.2.4.36.1.1 IAccessServiceSoap\_CopyDatabase\_InputMessage

The request WSDL message for the **CopyDatabase** WSDL operation.

The SOAP action value is:

```
http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/CopyDatabase
```

The SOAP body contains the **CopyDatabase** element.

#### 3.2.4.36.1.2 IAccessServiceSoap\_CopyDatabase\_OutputMessage

The response WSDL message for the **CopyDatabase** WSDL operation.

The SOAP body contains the **CopyDatabaseResponse** element.

### 3.2.4.36.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

| Element              | Description   |
|----------------------|---|
| CopyDatabase         | The input data for the <b>CopyDatabase</b> WSDL operation.  |
| CopyDatabaseResponse | The result data for the <b>CopyDatabase</b> WSDL operation. |

### 3.2.4.36.2.1 CopyDatabase

The input data for the **CopyDatabase** WSDL operation.

```
<xs:element name="CopyDatabase" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="commandParameter"
type="tns1:CommandParameter"/>
      <xs:element minOccurs="0" maxOccurs="1" name="originalDatabaseContext"
type="tns1:DatabaseContext"/>
      <xs:element minOccurs="0" maxOccurs="1" name="copyDatabaseName" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**commandParameter:** A **CommandParameter**, as specified in section [2.2.4.3](#). MUST be present.

**originalDatabaseContext:** A **DatabaseContext** (section [2.2.4.11](#)) that specifies the database to copy. MUST be present.

**copyDatabaseName:** A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the name of the copy of the database. MUST be present.

### 3.2.4.36.2.2 CopyDatabaseResponse

The result data for the **CopyDatabase** WSDL operation.

```
<xs:element name="CopyDatabaseResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="CopyDatabaseResult"
type="tns1:CommandResult"/>
      <xs:element minOccurs="0" maxOccurs="1" name="provisionedDatabaseContext"
type="tns1:ProvisionedDatabaseContext"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**CopyDatabaseResult:** A **CommandResult**, as specified in section [2.2.4.4](#). MUST be present.

**provisionedDatabaseContext:** A **ProvisionedDatabaseContext** (section [2.2.4.14](#)) that specifies information about the copy of the database being created. MUST be present.

### 3.2.4.36.3 Complex Types

None.

### 3.2.4.36.4 Simple Types

None.

### 3.2.4.36.5 Attributes

None.

### 3.2.4.36.6 Groups

None.

### 3.2.4.36.7 Attribute Groups

None.

### 3.2.4.37 DatabaseExists

This operation is used to determine whether or not a database exists on the protocol server.

```
<wsdl:operation name="DatabaseExists" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/DatabaseExists"
    message="tnsl:IAccessServiceSoap_DatabaseExists_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/DatabaseExistsResponse"
    message="tnsl:IAccessServiceSoap_DatabaseExists_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/DatabaseExistsAccessServerMessageFault"
    name="AccessServerMessageFault"
    message="tnsl:IAccessServiceSoap_DatabaseExists_AccessServerMessageFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IAccessServiceSoap\_DatabaseExists\_InputMessage** (section [3.2.4.37.1.1](#)) request message and the protocol server responds with an **IAccessServiceSoap\_DatabaseExists\_OutputMessage** (section [3.2.4.37.1.2](#)) response message as follows:

- If an error occurs on the protocol server during this operation, the protocol server MUST respond with a SOAP fault, as specified by section [2.2.9](#).
- Otherwise, the protocol server MUST respond with a **IAccessServiceSoap\_DatabaseExists\_OutputMessage** response message that contains information regarding the existence of the database.

#### 3.2.4.37.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

| Message   | Description   |
|---|---|
| IAccessServiceSoap_DatabaseExists_InputMessage  | The request WSDL message for the <b>DatabaseExists</b> WSDL operation.  |
| IAccessServiceSoap_DatabaseExists_OutputMessage | The response WSDL message for the <b>DatabaseExists</b> WSDL operation. |

### 3.2.4.37.1.1 IAccessServiceSoap\_DatabaseExists\_InputMessage

The request WSDL message for the **DatabaseExists** WSDL operation.

The SOAP action value is:

```
http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/DatabaseExists
```

The SOAP body contains the **DatabaseExists** element.

### 3.2.4.37.1.2 IAccessServiceSoap\_DatabaseExists\_OutputMessage

The response WSDL message for the **DatabaseExists** WSDL operation.

The SOAP body contains the **DatabaseExistsResponse** element.

### 3.2.4.37.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

| Element                | Description   |
|------------------------|---|
| DatabaseExists         | The input data for the <b>DatabaseExists</b> WSDL operation.  |
| DatabaseExistsResponse | The result data for the <b>DatabaseExists</b> WSDL operation. |

#### 3.2.4.37.2.1 DatabaseExists

The input data for the **DatabaseExists** WSDL operation.

```
<xs:element name="DatabaseExists" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="commandParameter"
        type="tns1:CommandParameter"/>
      <xs:element minOccurs="0" maxOccurs="1" name="databaseContext"
        type="tns1:DatabaseContext"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**commandParameter:** A **CommandParameter**, as specified in section [2.2.4.3](#). MUST be present.

**databaseContext:** A **DatabaseContext** (section [2.2.4.11](#)) that specifies information about the database whose existence is to be checked. MUST be present.

#### 3.2.4.37.2.2 DatabaseExistsResponse

The result data for the **DatabaseExists** WSDL operation.

```
<xs:element name="DatabaseExistsResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
```

```

    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="DatabaseExistsResult"
        type="tns1:CommandResult"/>
      <xs:element minOccurs="1" maxOccurs="1" name="exists" type="xs:boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**DatabaseExistsResult:** A **CommandResult**, as specified in section [2.2.4.4](#). MUST be present.

**exists:** A **boolean** ([\[XMLSCHEMA2\]](#) section 3.2.2) that specifies whether the database that is specified by the **databaseContext** element of the **DatabaseExists** element (section [3.2.4.37.2.1](#)) in the request exists.

### 3.2.4.37.3 Complex Types

None.

### 3.2.4.37.4 Simple Types

None.

### 3.2.4.37.5 Attributes

None.

### 3.2.4.37.6 Groups

None.

### 3.2.4.37.7 Attribute Groups

None.

### 3.2.4.38 ExecuteDacIncrementalUpgrade

Instructs the protocol server to update the contents of a database.

```

<wsdl:operation name="ExecuteDacIncrementalUpgrade"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/ExecuteDacIncrementalUpgrade"
    message="tns1:IAccessServiceSoap_ExecuteDacIncrementalUpgrade_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/ExecuteDacIncrementalUpgradeResponse"
    message="tns1:IAccessServiceSoap_ExecuteDacIncrementalUpgrade_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/ExecuteDacIncrementalUpgradeAccessServerMessageFault"
    name="AccessServerMessageFault"
    message="tns1:IAccessServiceSoap_ExecuteDacIncrementalUpgrade_AccessServerMessageFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>

```

</wsdl:operation>

The protocol client sends an **IAccessServiceSoap\_ExecuteDacIncrementalUpgrade\_InputMessage** (section [3.2.4.38.1.1](#)) request message and the protocol server responds with an **IAccessServiceSoap\_ExecuteDacIncrementalUpgrade\_OutputMessage** (section [3.2.4.38.1.2](#)) response message as follows:

- If an error occurs on the protocol server during this operation, the protocol server MUST respond with a SOAP fault, as specified by section [2.2.9](#).
- Otherwise, the protocol server MUST respond with a **IAccessServiceSoap\_ExecuteDacIncrementalUpgrade\_OutputMessage** response message.

### 3.2.4.38.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

| Message   | Description   |
|---|---|
| IAccessServiceSoap_ExecuteDacIncrementalUpgrade_InputMessage  | The request WSDL message for the <b>ExecuteDacIncrementalUpgrade</b> WSDL operation.  |
| IAccessServiceSoap_ExecuteDacIncrementalUpgrade_OutputMessage | The response WSDL message for the <b>ExecuteDacIncrementalUpgrade</b> WSDL operation. |

#### 3.2.4.38.1.1 IAccessServiceSoap\_ExecuteDacIncrementalUpgrade\_InputMessage

The request WSDL message for the **ExecuteDacIncrementalUpgrade** WSDL operation.

The SOAP action value is:

```
http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/ExecuteDacIncrementalUpgrade
```

The SOAP body contains the **ExecuteDacIncrementalUpgrade** element.

#### 3.2.4.38.1.2

#### IAccessServiceSoap\_ExecuteDacIncrementalUpgrade\_OutputMessage

The response WSDL message for the **ExecuteDacIncrementalUpgrade** WSDL operation.

The SOAP body contains the **ExecuteDacIncrementalUpgradeResponse** element.

### 3.2.4.38.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.



| Element                              | Description   |
|--------------------------------------|---|
| ExecuteDacIncrementalUpgrade         | The input data for the <b>ExecuteDacIncrementalUpgrade</b> WSDL operation.  |
| ExecuteDacIncrementalUpgradeResponse | The result data for the <b>ExecuteDacIncrementalUpgrade</b> WSDL operation. |

### 3.2.4.38.2.1 ExecuteDacIncrementalUpgrade

The input data for the **ExecuteDacIncrementalUpgrade** WSDL operation.

```
<xs:element name="ExecuteDacIncrementalUpgrade" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="commandParameter"
type="tns1:CommandParameter"/>
      <xs:element minOccurs="0" maxOccurs="1" name="databaseContext"
type="tns1:DatabaseContext"/>
      <xs:element minOccurs="0" maxOccurs="1" name="encodedDac" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**commandParameter:** A **CommandParameter**, as specified in section [2.2.4.3](#). MUST be present.

**databaseContext:** A **DatabaseContext** (section [2.2.4.11](#)) that specifies information about the database to update. MUST be present.

**encodedDac:** A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies updated contents for the database specified by the **databaseContext** parameter. The format of this **string** is a **base64 encoding** of a data-tier application schema and data file, as specified by [\[MS-BACPAC\]](#). MUST be present.

### 3.2.4.38.2.2 ExecuteDacIncrementalUpgradeResponse

The result data for the **ExecuteDacIncrementalUpgrade** WSDL operation.

```
<xs:element name="ExecuteDacIncrementalUpgradeResponse"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="ExecuteDacIncrementalUpgradeResult"
type="tns1:CommandResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**ExecuteDacIncrementalUpgradeResult:** A **CommandResult**, as specified in section [2.2.4.4](#). MUST be present.

### 3.2.4.38.3 Complex Types

None.

#### 3.2.4.38.4 Simple Types

None.

#### 3.2.4.38.5 Attributes

None.

#### 3.2.4.38.6 Groups

None.

#### 3.2.4.38.7 Attribute Groups

None.

#### 3.2.4.39 GetAvailableServer

This operation returns an available database server on which new databases can be created using a given mode of authentication.

```
<wsdl:operation name="GetAvailableServer" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
    erInternalService/IAccessServiceSoap/GetAvailableServer"
    message="tns1:IAccessServiceSoap_GetAvailableServer_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
    erInternalService/IAccessServiceSoap/GetAvailableServerResponse"
    message="tns1:IAccessServiceSoap_GetAvailableServer_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
    erInternalService/IAccessServiceSoap/GetAvailableServerAccessServerMessageFault"
    name="AccessServerMessageFault"
    message="tns1:IAccessServiceSoap_GetAvailableServer_AccessServerMessageFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IAccessServiceSoap\_GetAvailableServer\_InputMessage** (section [3.2.4.39.1.1](#)) request message and the protocol server responds with an **IAccessServiceSoap\_GetAvailableServer\_OutputMessage** (section [3.2.4.39.1.2](#)) response message as follows:

- If an error occurs on the protocol server during this operation, the protocol server MUST respond with a SOAP fault, as specified by section [2.2.9](#).
- Otherwise, the protocol server MUST respond with a **IAccessServiceSoap\_GetAvailableServer\_OutputMessage** response message that contains information about an available server.

#### 3.2.4.39.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

| Message   | Description   |
|---|---|
| IAccessServiceSoap_GetAvailableServer_InputMessage  | The request WSDL message for the <b>GetAvailableServer</b> WSDL operation.  |
| IAccessServiceSoap_GetAvailableServer_OutputMessage | The response WSDL message for the <b>GetAvailableServer</b> WSDL operation. |

### 3.2.4.39.1.1 IAccessServiceSoap\_GetAvailableServer\_InputMessage

The request WSDL message for the **GetAvailableServer** WSDL operation.

The SOAP action value is:

```
http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/GetAvailableServer
```

The SOAP body contains the **GetAvailableServer** element.

### 3.2.4.39.1.2 IAccessServiceSoap\_GetAvailableServer\_OutputMessage

The response WSDL message for the **GetAvailableServer** WSDL operation.

The SOAP body contains the **GetAvailableServerResponse** element.

### 3.2.4.39.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

| Element                    | Description   |
|----------------------------|---|
| GetAvailableServer         | The input data for the <b>GetAvailableServer</b> WSDL operation.  |
| GetAvailableServerResponse | The result data for the <b>GetAvailableServer</b> WSDL operation. |

### 3.2.4.39.2.1 GetAvailableServer

The input data for the **GetAvailableServer** WSDL operation.

```
<xs:element name="GetAvailableServer" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="commandParameter"
type="tns1:CommandParameter"/>
      <xs:element minOccurs="1" maxOccurs="1" name="authMode"
type="tns1:SqlAuthenticationMode"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**commandParameter:** A **CommandParameter**, as specified in section [2.2.4.3](#). MUST be present.

**authMode:** A **SqlAuthenticationMode** (section [3.2.4.39.4.1](#)) that specifies the desired mode of authentication to be used for the database server.

### 3.2.4.39.2.2 GetAvailableServerResponse

The result data for the **GetAvailableServer** WSDL operation.

```
<xs:element name="GetAvailableServerResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="GetAvailableServerResult"
type="tns1:CommandResult"/>
      <xs:element minOccurs="0" maxOccurs="1" name="serverContext"
type="tns1:ServerContext"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetAvailableServerResult:** A **CommandResult**, as specified in section [2.2.4.4](#). MUST be present.

**serverContext:** A **ServerContext** (section [2.2.4.16](#)) that specifies a server that can be used successfully in the **Server** element of the **databaseContext** element of the **ProvisionDatabase** element (section [3.2.4.42.2.1](#)) in a future call to **ProvisionDatabase** (section [3.2.4.42](#)). MUST be present.

### 3.2.4.39.3 Complex Types

None.

### 3.2.4.39.4 Simple Types

The following table summarizes the XML schema simple type definitions that are specific to this operation.

| Simple type           | Description  |
|-----------------------|--|
| SqlAuthenticationMode | Specifies a desired mode of authentication to the database server. |

#### 3.2.4.39.4.1 SqlAuthenticationMode

**Namespace:**

<http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/>

Specifies a desired mode of authentication to the database server.

```
<xs:simpleType name="SqlAuthenticationMode" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:restriction base="xs:string">
    <xs:enumeration value="SqlServerAuth"/>
    <xs:enumeration value="SqlServerAuthOrWindowsAuth"/>
  </xs:restriction>
</xs:simpleType>
```

The following table specifies the allowable values for **SqlAuthenticationMode**.

| Value                      | Meaning  |
|----------------------------|--|
| SqlServerAuth              | Specifies that authentication to the database server will be done using <b>SQL authentication</b> .  |
| SqlServerAuthOrWindowsAuth | Specifies that authentication to the database server will be done either with SQL authentication or with the <b>Security Support Provider Interface (SSPI)</b> . |

### 3.2.4.39.5 Attributes

None.

### 3.2.4.39.6 Groups

None.

### 3.2.4.39.7 Attribute Groups

None.

### 3.2.4.40 GetPackage

This operation retrieves a package that represents a database application, including its objects and data.

```
<wsdl:operation name="GetPackage" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
    erInternalService/IAccessServiceSoap/GetPackage"
    message="tns1:IAccessServiceSoap_GetPackage_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
    erInternalService/IAccessServiceSoap/GetPackageResponse"
    message="tns1:IAccessServiceSoap_GetPackage_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
    erInternalService/IAccessServiceSoap/GetPackageAccessServerMessageFault"
    name="AccessServerMessageFault"
    message="tns1:IAccessServiceSoap_GetPackage_AccessServerMessageFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends a **IAccessServiceSoap\_GetPackage\_InputMessage** (section [3.2.4.40.1.1](#)) request message and the protocol server responds with a **IAccessServiceSoap\_GetPackage\_OutputMessage** (section [3.2.4.40.1.2](#)) response message as follows:

- If an error occurs on the protocol server during this operation, the protocol server MUST respond with a SOAP fault, as specified by section [2.2.9](#).
- Otherwise, the protocol server MUST respond with a **IAccessServiceSoap\_GetPackage\_OutputMessage** response message that contains the package.

### 3.2.4.40.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

| Message                                     | Description   |
|---|---|
| IAccessServiceSoap_GetPackage_InputMessage  | The request WSDL message for the <b>GetPackage</b> WSDL operation.  |
| IAccessServiceSoap_GetPackage_OutputMessage | The response WSDL message for the <b>GetPackage</b> WSDL operation. |

#### 3.2.4.40.1.1 IAccessServiceSoap\_GetPackage\_InputMessage

The request WSDL message for the **GetPackage** WSDL operation.

The SOAP action value is:

```
http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/GetPackage
```

The SOAP body contains the **GetPackage** element.

#### 3.2.4.40.1.2 IAccessServiceSoap\_GetPackage\_OutputMessage

The response WSDL message for the **GetPackage** WSDL operation.

The SOAP body contains the **GetPackageResponse** element.

### 3.2.4.40.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

| Element            | Description   |
|--------------------|---|
| GetPackage         | The input data for the <b>GetPackage</b> WSDL operation.  |
| GetPackageResponse | The result data for the <b>GetPackage</b> WSDL operation. |

#### 3.2.4.40.2.1 GetPackage

The input data for the **GetPackage** WSDL operation.

```
<xs:element name="GetPackage" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="commandParameter"
type="tns1:CommandParameter"/>
      <xs:element minOccurs="0" maxOccurs="1" name="container" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="packageParams"
type="tns1:GetPackageParameters"/>
      <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="userCookieId" type="q1:guid"/>
    
```

```
</xs:sequence>
</xs:complexType>
</xs:element>
```

**commandParameter:** A **CommandParameter**, as specified in section [2.2.4.3](#). MUST be present.

**container:** A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the absolute URL to the current site (2) on which the operation is to be performed. MUST be present.

**packageParams:** A **GetPackageParameters** ([\[MS-AADT\]](#) section 3.1.4.21.3.1) that specifies the identifier of the package to retrieve. MUST be present.

**userCookieId:** A **guid** (section [2.2.5.5](#)) that specifies an identifier for the operation. SHOULD be ignored by the protocol server.

### 3.2.4.40.2.2 GetPackageResponse

The result data for the **GetPackage** WSDL operation.

```
<xs:element name="GetPackageResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="GetPackageResult"
type="tns1:CommandResult"/>
      <xs:element minOccurs="0" maxOccurs="1" name="result" type="tns1:GetPackageResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetPackageResult:** A **CommandResult**, as specified in section [2.2.4.4](#). MUST be present.

**result:** A **GetPackageResult** element ([\[MS-AADT\]](#) section 3.1.4.21.3.2) that contains the package. MUST be present.

### 3.2.4.40.3 Complex Types

None.

### 3.2.4.40.4 Simple Types

None.

### 3.2.4.40.5 Attributes

None.

### 3.2.4.40.6 Groups

None.

### 3.2.4.40.7 Attribute Groups

None.

### 3.2.4.41 GetServerName

Retrieves the name of a database server associated with a given handle.

```
<wsdl:operation name="GetServerName" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/GetServerName"
    message="tns1:IAccessServiceSoap_GetServerName_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/GetServerNameResponse"
    message="tns1:IAccessServiceSoap_GetServerName_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/GetServerNameAccessServerMessageFault"
    name="AccessServerMessageFault"
    message="tns1:IAccessServiceSoap_GetServerName_AccessServerMessageFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IAccessServiceSoap\_GetServerName\_InputMessage** (section [3.2.4.41.1.1](#)) request message and the protocol server responds with an **IAccessServiceSoap\_GetServerName\_OutputMessage** (section [3.2.4.41.1.2](#)) response message as follows:

- If an error occurs on the protocol server during this operation, the protocol server MUST respond with a SOAP fault, as specified by section [2.2.9](#).
- Otherwise, the protocol server MUST respond with a **IAccessServiceSoap\_GetServerName\_OutputMessage** response message that contains the name of the server requested.

#### 3.2.4.41.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

| Message  | Description  |
|--|--|
| IAccessServiceSoap_GetServerName_InputMessage  | The request WSDL message for the <b>GetServerName</b> WSDL operation.  |
| IAccessServiceSoap_GetServerName_OutputMessage | The response WSDL message for the <b>GetServerName</b> WSDL operation. |

##### 3.2.4.41.1.1 IAccessServiceSoap\_GetServerName\_InputMessage

The request WSDL message for the **GetServerName** WSDL operation.

The SOAP action value is:

```
http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/GetServerName
```



The SOAP body contains the **GetServerName** element.

### 3.2.4.41.1.2 IAccessServiceSoap\_GetServerName\_OutputMessage

The response WSDL message for the **GetServerName** WSDL operation.

The SOAP body contains the **GetServerNameResponse** element.

### 3.2.4.41.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

| Element               | Description  |
|-----------------------|--|
| GetServerName         | The input data for the <b>GetServerName</b> WSDL operation.  |
| GetServerNameResponse | The result data for the <b>GetServerName</b> WSDL operation. |

#### 3.2.4.41.2.1 GetServerName

The input data for the **GetServerName** WSDL operation.

```
<xs:element name="GetServerName" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="commandParameter"
type="tns1:CommandParameter"/>
      <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="serverReferenceId" type="q1:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**commandParameter:** A **CommandParameter**, as specified in section [2.2.4.3](#). MUST be present.

**serverReferenceId:** A **guid** (section [2.2.5.5](#)) that specifies a value that is used as a handle to a database server, as appears in the **ServerReferenceId** element of a **ServerContext** element (section [2.2.4.16](#)).

#### 3.2.4.41.2.2 GetServerNameResponse

The result data for the **GetServerName** WSDL operation.

```
<xs:element name="GetServerNameResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="GetServerNameResult"
type="tns1:CommandResult"/>
      <xs:element minOccurs="0" maxOccurs="1" name="serverName" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**GetServerNameResult:** A **CommandResult**, as specified in section [2.2.4.4](#). MUST be present.

**serverName:** A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the name of the database server corresponding to the **serverReferenceId** of the **GetServerName** element (section [3.2.4.41.2.1](#)) in the request to this operation. **MUST** be present.

### 3.2.4.41.3 Complex Types

None.

### 3.2.4.41.4 Simple Types

None.

### 3.2.4.41.5 Attributes

None.

### 3.2.4.41.6 Groups

None.

### 3.2.4.41.7 Attribute Groups

None.

### 3.2.4.42 ProvisionDatabase

Instructs the protocol server to create a new database.

```
<wsdl:operation name="ProvisionDatabase" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/ProvisionDatabase"
    message="tns1:IAccessServiceSoap_ProvisionDatabase_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/ProvisionDatabaseResponse"
    message="tns1:IAccessServiceSoap_ProvisionDatabase_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/ProvisionDatabaseAccessServerMessageFault"
    name="AccessServerMessageFault"
    message="tns1:IAccessServiceSoap_ProvisionDatabase_AccessServerMessageFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IAccessServiceSoap\_ProvisionDatabase\_InputMessage** (section [3.2.4.42.1.1](#)) request message and the protocol server responds with an **IAccessServiceSoap\_ProvisionDatabase\_OutputMessage** (section [3.2.4.42.1.2](#)) response message as follows:

- If an error occurs on the protocol server during this operation, the protocol server **MUST** respond with a SOAP fault, as specified by section [2.2.9](#).

- Otherwise, the protocol server MUST respond with a **IAccessServiceSoap\_ProvisionDatabase\_OutputMessage** response message that contains information about the newly created database.

### 3.2.4.42.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

| Message  | Description  |
|--|--|
| IAccessServiceSoap_ProvisionDatabase_InputMessage  | The request WSDL message for the <b>ProvisionDatabase</b> WSDL operation.  |
| IAccessServiceSoap_ProvisionDatabase_OutputMessage | The response WSDL message for the <b>ProvisionDatabase</b> WSDL operation. |

#### 3.2.4.42.1.1 IAccessServiceSoap\_ProvisionDatabase\_InputMessage

The request WSDL message for the **ProvisionDatabase** WSDL operation.

The SOAP action value is:

```
http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/ProvisionDatabase
```

The SOAP body contains the **ProvisionDatabase** element.

#### 3.2.4.42.1.2 IAccessServiceSoap\_ProvisionDatabase\_OutputMessage

The response WSDL message for the **ProvisionDatabase** WSDL operation.

The SOAP body contains the **ProvisionDatabaseResponse** element.

### 3.2.4.42.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

| Element                   | Description  |
|---------------------------|--|
| ProvisionDatabase         | The input data for the <b>ProvisionDatabase</b> WSDL operation.  |
| ProvisionDatabaseResponse | The result data for the <b>ProvisionDatabase</b> WSDL operation. |

#### 3.2.4.42.2.1 ProvisionDatabase

The input data for the **ProvisionDatabase** WSDL operation.

```
<xs:element name="ProvisionDatabase" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="commandParameter"
        type="tns1:CommandParameter"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

```

    <xs:element minOccurs="0" maxOccurs="1" name="databaseContext"
type="tns1:DatabaseContext"/>
    <xs:element minOccurs="0" maxOccurs="1" name="encodedDac" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
</xs:element>

```

**commandParameter:** A **CommandParameter**, as specified in section [2.2.4.3](#). MUST be present.

**databaseContext:** A **DatabaseContext** (section [2.2.4.11](#)) that specifies information about the database to create. The **ServerContext** (section [2.2.4.16](#)) specified by the **Server** element of **databaseContext** MUST be a value returned by a call to **GetAvailableServer** (section [3.2.4.39](#)). MUST be present.

**encodedDac:** A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the contents of the database to create. The format of this **string** is a base64 encoding of a data-tier application schema and data file as specified by [\[MS-BACPAC\]](#). MUST be present.

### 3.2.4.42.2 ProvisionDatabaseResponse

The result data for the **ProvisionDatabase** WSDL operation.

```

<xs:element name="ProvisionDatabaseResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="ProvisionDatabaseResult"
type="tns1:CommandResult"/>
      <xs:element minOccurs="0" maxOccurs="1" name="provisionedDatabaseContext"
type="tns1:ProvisionedDatabaseContext"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**ProvisionDatabaseResult:** A **CommandResult**, as specified in section [2.2.4.4](#). MUST be present.

**provisionedDatabaseContext:** A **ProvisionedDatabaseContext** (section [2.2.4.14](#)) that specifies information about the database created. MUST be present. If **PackageType** element of the **DatabaseContext** element of **ProvisionedDatabaseContext** is "Access", then no permissions are associated with the **DboCredential** element of the **DatabaseContext**.

### 3.2.4.42.3 Complex Types

None.

### 3.2.4.42.4 Simple Types

None.

### 3.2.4.42.5 Attributes

None.

### 3.2.4.42.6 Groups

None.

### 3.2.4.42.7 Attribute Groups

None.

### 3.2.4.43 RenameDatabase

Changes the name of a database.

```
<wsdl:operation name="RenameDatabase" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/RenameDatabase"
    message="tnsl:IAccessServiceSoap_RenameDatabase_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/RenameDatabaseResponse"
    message="tnsl:IAccessServiceSoap_RenameDatabase_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/RenameDatabaseAccessServerMessageFault"
    name="AccessServerMessageFault"
    message="tnsl:IAccessServiceSoap_RenameDatabase_AccessServerMessageFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IAccessServiceSoap\_RenameDatabase\_InputMessage** (section [3.2.4.43.1.1](#)) request message and the protocol server responds with an **IAccessServiceSoap\_RenameDatabase\_OutputMessage** (section [3.2.4.43.1.2](#)) response message as follows:

- If an error occurs on the protocol server during this operation, the protocol server MUST respond with a SOAP fault, as specified by section [2.2.9](#).
- Otherwise, the protocol server MUST respond with a **IAccessServiceSoap\_RenameDatabase\_OutputMessage** response message.

#### 3.2.4.43.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

| Message   | Description   |
|---|---|
| IAccessServiceSoap_RenameDatabase_InputMessage  | The request WSDL message for the <b>RenameDatabase</b> WSDL operation.  |
| IAccessServiceSoap_RenameDatabase_OutputMessage | The response WSDL message for the <b>RenameDatabase</b> WSDL operation. |

### 3.2.4.43.1.1 IAccessServiceSoap\_RenameDatabase\_InputMessage

The request WSDL message for the **RenameDatabase** WSDL operation.

The SOAP action value is:

```
http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/RenameDatabase
```

The SOAP body contains the **RenameDatabase** element.

### 3.2.4.43.1.2 IAccessServiceSoap\_RenameDatabase\_OutputMessage

The response WSDL message for the **RenameDatabase** WSDL operation.

The SOAP body contains the **RenameDatabaseResponse** element.

### 3.2.4.43.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

| Element                | Description   |
|------------------------|---|
| RenameDatabase         | The input data for the <b>RenameDatabase</b> WSDL operation.  |
| RenameDatabaseResponse | The result data for the <b>RenameDatabase</b> WSDL operation. |

#### 3.2.4.43.2.1 RenameDatabase

The input data for the **RenameDatabase** WSDL operation.

```
<xs:element name="RenameDatabase" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="commandParameter"
        type="tns1:CommandParameter"/>
      <xs:element minOccurs="0" maxOccurs="1" name="databaseContext"
        type="tns1:DatabaseContext"/>
      <xs:element minOccurs="0" maxOccurs="1" name="newDatabaseName" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

**commandParameter:** A **CommandParameter**, as specified in section [2.2.4.3](#). MUST be present.

**databaseContext:** A **DatabaseContext** (section [2.2.4.11](#)) that specifies information about the database to rename. MUST be present.

**newDatabaseName:** A **string** ([\[XMLSCHEMA2\]](#) section 3.2.1) that specifies the new name to give the database specified by the **databaseContext** element. MUST be present.

#### 3.2.4.43.2.2 RenameDatabaseResponse

The result data for the **RenameDatabase** WSDL operation.

```

<xs:element name="RenameDatabaseResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="RenameDatabaseResult"
type="tns1:CommandResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**RenameDatabaseResult:** A **CommandResult**, as specified in section [2.2.4.4](#). MUST be present.

### 3.2.4.43.3 Complex Types

None.

### 3.2.4.43.4 Simple Types

None.

### 3.2.4.43.5 Attributes

None.

### 3.2.4.43.6 Groups

None.

### 3.2.4.43.7 Attribute Groups

None.

### 3.2.4.44 SetReadWrite

Instructs the protocol server to toggle a database between read-only and read-write states.

```

<wsdl:operation name="SetReadWrite" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/SetReadWrite"
message="tns1:IAccessServiceSoap_SetReadWrite_InputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/SetReadWriteResponse"
message="tns1:IAccessServiceSoap_SetReadWrite_OutputMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/SetReadWriteAccessServerMessageFault"
name="AccessServerMessageFault"
message="tns1:IAccessServiceSoap_SetReadWrite_AccessServerMessageFault_FaultMessage"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>

```

The protocol client sends an **IAccessServiceSoap\_SetReadWrite\_InputMessage** (section [3.2.4.44.1.1](#)) request message and the protocol server responds with an

**IAccessServiceSoap\_SetReadWrite\_OutputMessage** (section [3.2.4.44.1.2](#)) response message as follows:

- If an error occurs on the protocol server during this operation, the protocol server MUST respond with a SOAP fault, as specified by section [2.2.9](#).
- Otherwise, the protocol server MUST respond with a **IAccessServiceSoap\_SetReadWrite\_OutputMessage** response message.

### 3.2.4.44.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

| Message                                       | Description   |
|---|---|
| IAccessServiceSoap_SetReadWrite_InputMessage  | The request WSDL message for the <b>SetReadWrite</b> WSDL operation.  |
| IAccessServiceSoap_SetReadWrite_OutputMessage | The response WSDL message for the <b>SetReadWrite</b> WSDL operation. |

#### 3.2.4.44.1.1 IAccessServiceSoap\_SetReadWrite\_InputMessage

The request WSDL message for the **SetReadWrite** WSDL operation.

The SOAP action value is:

```
http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/SetReadWrite
```

The SOAP body contains the **SetReadWrite** element.

#### 3.2.4.44.1.2 IAccessServiceSoap\_SetReadWrite\_OutputMessage

The response WSDL message for the **SetReadWrite** WSDL operation.

The SOAP body contains the **SetReadWriteResponse** element.

### 3.2.4.44.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

| Element              | Description   |
|----------------------|---|
| SetReadWrite         | The input data for the <b>SetReadWrite</b> WSDL operation.  |
| SetReadWriteResponse | The result data for the <b>SetReadWrite</b> WSDL operation. |

#### 3.2.4.44.2.1 SetReadWrite

The input data for the **SetReadWrite** WSDL operation.



```

<xs:element name="SetReadWrite" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="commandParameter"
type="tns1:CommandParameter"/>
      <xs:element minOccurs="0" maxOccurs="1" name="databaseContext"
type="tns1:DatabaseContext"/>
      <xs:element minOccurs="1" maxOccurs="1" name="readWrite"
type="tns1:DatabaseReadWriteState"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**commandParameter:** A **CommandParameter**, as specified in section [2.2.4.3](#). MUST be present.

**databaseContext:** A **DatabaseContext** (section [2.2.4.11](#)) that specifies information about the database for which to toggle the read-only/read-write state. MUST be present.

**readWrite:** A **DatabaseReadWriteState** (section [3.2.4.44.4.1](#)) that specifies whether to set the database specified by the **databaseContext** element to read-only or read-write state.

### 3.2.4.44.2 SetReadWriteResponse

The result data for the **SetReadWrite** WSDL operation.

```

<xs:element name="SetReadWriteResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="SetReadWriteResult"
type="tns1:CommandResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**SetReadWriteResult:** A **CommandResult**, as specified in section [2.2.4.4](#). MUST be present.

### 3.2.4.44.3 Complex Types

None.

### 3.2.4.44.4 Simple Types

The following table summarizes the XML schema simple type definitions that are specific to this operation.

| Simple type            | Description   |
|------------------------|---|
| DatabaseReadWriteState | Specifies whether a database is to be set to read-only or read-write state. |

#### 3.2.4.44.4.1 DatabaseReadWriteState

**Namespace:**

<http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/>

Specifies whether a database is to be set in read-only or read-write mode.

```
<xs:simpleType name="DatabaseReadWriteState" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Read"/>
    <xs:enumeration value="ReadWrite"/>
  </xs:restriction>
</xs:simpleType>
```

The following table specifies the allowable values for **DatabaseReadWriteState**.

| Value     | Meaning   |
|-----------|---|
| Read      | Specifies that the database is to be set to read-only state.  |
| ReadWrite | Specifies that the database is to be set to read-write state. |

#### 3.2.4.44.5 Attributes

None.

#### 3.2.4.44.6 Groups

None.

#### 3.2.4.44.7 Attribute Groups

None.

#### 3.2.4.45 UnprovisionDatabase

Instructs the protocol server to delete a database.

```
<wsdl:operation name="UnprovisionDatabase" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:input
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/UnprovisionDatabase"
    message="tns1:IAccessServiceSoap_UnprovisionDatabase_InputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:output
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/UnprovisionDatabaseResponse"
    message="tns1:IAccessServiceSoap_UnprovisionDatabase_OutputMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
  <wsdl:fault
    wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/UnprovisionDatabaseAccessServerMessageFault"
    name="AccessServerMessageFault"
    message="tns1:IAccessServiceSoap_UnprovisionDatabase_AccessServerMessageFault_FaultMessage"
    xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
</wsdl:operation>
```

The protocol client sends an **IAccessServiceSoap\_UnprovisionDatabase\_InputMessage** (section [3.2.4.45.1.1](#)) request message and the protocol server responds with an **IAccessServiceSoap\_UnprovisionDatabase\_OutputMessage** (section [3.2.4.45.1.2](#)) response message as follows:

- If an error occurs on the protocol server during this operation, the protocol server MUST respond with a SOAP fault, as specified by section [2.2.9](#).
- Otherwise, the protocol server MUST respond with a **IAccessServiceSoap\_UnprovisionDatabase\_OutputMessage** response message.

### 3.2.4.45.1 Messages

The following table summarizes the set of WSDL message definitions that are specific to this operation.

| Message  | Description  |
|--|--|
| IAccessServiceSoap_UnprovisionDatabase_InputMessage  | The request WSDL message for the <b>UnprovisionDatabase</b> WSDL operation.  |
| IAccessServiceSoap_UnprovisionDatabase_OutputMessage | The response WSDL message for the <b>UnprovisionDatabase</b> WSDL operation. |

#### 3.2.4.45.1.1 IAccessServiceSoap\_UnprovisionDatabase\_InputMessage

The request WSDL message for the **UnprovisionDatabase** WSDL operation.

The SOAP action value is:

```
http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/UnprovisionDatabase
```

The SOAP body contains the **UnprovisionDatabase** element.

#### 3.2.4.45.1.2 IAccessServiceSoap\_UnprovisionDatabase\_OutputMessage

The response WSDL message for the **UnprovisionDatabase** WSDL operation.

The SOAP body contains the **UnprovisionDatabaseResponse** element.

### 3.2.4.45.2 Elements

The following table summarizes the XML schema element definitions that are specific to this operation.

| Element                     | Description  |
|-----------------------------|--|
| UnprovisionDatabase         | The input data for the <b>UnprovisionDatabase</b> WSDL operation.  |
| UnprovisionDatabaseResponse | The result data for the <b>UnprovisionDatabase</b> WSDL operation. |

#### 3.2.4.45.2.1 UnprovisionDatabase

The input data for the **UnprovisionDatabase** WSDL operation.

```
<xs:element name="UnprovisionDatabase" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
```

```

    <xs:element minOccurs="0" maxOccurs="1" name="commandParameter"
type="tns1:CommandParameter"/>
    <xs:element minOccurs="0" maxOccurs="1" name="databaseContext"
type="tns1:DatabaseContext"/>
    <xs:element minOccurs="1" maxOccurs="1" name="dropLogin" type="xs:boolean"/>
  </xs:sequence>
</xs:complexType>
</xs:element>

```

**commandParameter:** A **CommandParameter**, as specified in section [2.2.4.3](#). MUST be present.

**databaseContext:** A **DatabaseContext** (section [2.2.4.11](#)) that specifies information about the database to delete. MUST be present.

**dropLogin:** A **boolean** ([\[XMLSCHEMA2\]](#) section 3.2.2) that specifies whether the protocol client is requesting the protocol server to also delete the account used for accessing the database specified by **databaseContext**.

### 3.2.4.45.2 UnprovisionDatabaseResponse

The result data for the **UnprovisionDatabase** WSDL operation.

```

<xs:element name="UnprovisionDatabaseResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="UnprovisionDatabaseResult"
type="tns1:CommandResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

**UnprovisionDatabaseResult:** A **CommandResult**, as specified in section [2.2.4.4](#). MUST be present.

### 3.2.4.45.3 Complex Types

None.

### 3.2.4.45.4 Simple Types

None.

### 3.2.4.45.5 Attributes

None.

### 3.2.4.45.6 Groups

None.

### 3.2.4.45.7 Attribute Groups

None.

## 3.2.5 Timer Events

### 3.2.5.1 Session Timeout

The **Session Timeout** event completes a request for a timed out session (2) with a SOAP fault, as specified in section [2.2.9](#), with the value of the **Id** element of the **AccessServerMessage** (section [2.2.9.1](#)) set to **NewWorkbookSessionTimeout** as specified by section [2.2.5.2](#).

### 3.2.6 Other Local Events

None.

Preliminary

## 4 Protocol Examples

### 4.1 CreateAccessObject

In this scenario, the protocol client calls the CreateAccessObject method on a protocol server named "server.example.com". This example creates a table object.

```
<CreateAccessObject
xmlns="http://schemas.microsoft.com/office/Access/2010/11/Server/Webservices/AccessServerInternalService/">
  <commandParameter>
    <WorkbookId>1.V22.72Qgf8kLDWFQtfg3MdByr90.5.en-US5.en-US73.+0480#0000-11-00-
01T02:00:00:0000#+0000#0000-03-00-02T02:00:00:0000#-006036.00000000-0000-0000-0000-
0000000000001.U</WorkbookId>
    <StateId>-1</StateId>
    <ProtocolClientId>
</ProtocolClientId>
    <UserFriendlyDisplayName>DOMAIN\username</UserFriendlyDisplayName>
    <Zone>Default</Zone>
    <RequestSiteId>8b777e1b-3d99-43fb-9813-392ab88b4206</RequestSiteId>
    <CorrelationId>00000000-0000-0000-0000-000000000000</CorrelationId>
    <CompleteResponseTimeout>0</CompleteResponseTimeout>
  </commandParameter>
  <container>http://server.example.com</container>
  <parameters ProtocolVersion="15.0.3.0" Name="Client" Description="" ObjectType="Table">
    <Body>
      <Schema Namespace="Access.Store"
xmlns="http://schemas.microsoft.com/ado/2008/09/edm"
xmlns:axl="http://schemas.microsoft.com/office/accessservices/2010/12/application">
        <EntityContainer Name="AccessStoreContainer">
          <EntitySet Name="Client" EntityType="Access.Store.Client">
            </EntitySet>
          </EntityContainer>
          <EntityType Name="Client">
            <Key>
              <PropertyRef Name="ID">
                </PropertyRef>
            </Key>
            <Property Name="ID" Type="Int32" axl:StoreGeneratedPattern="Identity"
Nullable="false">
              </Property>
            <Property Name="Client Name" Type="String" Unicode="true"
axl:TextType="SingleLine" MaxLength="220">
              </Property>
            <axl:EventDataMacro>
              <axl:DataMacro Event="AfterInsert">
                </axl:DataMacro>
              </axl:EventDataMacro>
            <axl:EventDataMacro>
              <axl:DataMacro Event="AfterUpdate">
                </axl:DataMacro>
              </axl:EventDataMacro>
            <axl:EventDataMacro>
              <axl:DataMacro Event="AfterDelete">
                </axl:DataMacro>
              </axl:EventDataMacro>
            </EntityType>
          </EntityContainer>
        </Schema>
      </Body>
    </parameters>
  </CreateAccessObject>
```

```

    </Schema>
  </Body>
</parameters>
<userCookieId>00000002-bd62-1a4f-f9dd-84489ab2aa55</userCookieId>
</CreateAccessObject>

```

## 4.2 CreateApplication

In this scenario, the protocol client calls the CreateApplication method on a protocol server named "server.example.com". This example creates an application.

```

<CreateApplication
xmlns="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/">
  <commandParameter>
    <WorkbookId>1.V22.733tjtt6yJkqysQEa3ecIj90.5.en-US5.en-US73.+0480#0000-11-00-01T02:00:00:0000#+0000#0000-03-00-02T02:00:00:0000#-006036.00000000-0000-0000-0000-0000000000001.U</WorkbookId>
    <StateId>-1</StateId>
    <ProtocolClientId>
    </ProtocolClientId>
    <UserFriendlyDisplayName>DOMAIN\username</UserFriendlyDisplayName>
    <Zone>Default</Zone>
    <RequestSiteId>8b777e1b-3d99-43fb-9813-392ab88b4206</RequestSiteId>
    <CorrelationId>00000000-0000-0000-0000-000000000000</CorrelationId>
    <CompleteResponseTimeout>0</CompleteResponseTimeout>
  </commandParameter>
  <container>http://server.example.com</container>
  <parameters Name="231" Template="">
    <Collation Culture="en-US" CaseSensitive="false" AccentSensitive="true"
KanaSensitive="false" WidthSensitive="false" UseSupplementaryCharacters="false">
  </Collation>
  <ProtocolVersionOptions>
    <ProtocolVersion>15.0.3.0</ProtocolVersion>
  </ProtocolVersionOptions>
  </parameters>
  <userCookieId>00000000-0000-0000-0000-000000000000</userCookieId>
</CreateApplication>

```

## 4.3 DeleteData

In this scenario, the protocol client calls the DeleteData method on a protocol server. This example deletes a record from a table.

```

<DeleteData
xmlns="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/">
  <parameter>
    <WorkbookId>1.V22.70H0556qa6XWR/hYIBvZ3T90.5.en-US5.en-US73.+0480#0000-11-00-01T02:00:00:0000#+0000#0000-03-00-02T02:00:00:0000#-006036.00000000-0000-0000-0000-0000000000001.U</WorkbookId>
    <StateId>-1</StateId>
    <ProtocolClientId>
    </ProtocolClientId>
    <UserFriendlyDisplayName>DOMAIN\username</UserFriendlyDisplayName>
    <Zone>Default</Zone>
  </parameter>

```

```

    <RequestSiteId>8b777e1b-3d99-43fb-9813-392ab88b4206</RequestSiteId>
    <CorrelationId>00000000-0000-0000-0000-000000000000</CorrelationId>
    <CompleteResponseTimeout>0</CompleteResponseTimeout>
  </parameter>
  <moniker>Default</moniker>
  <keys>
    <KeyValuePair>
      <Key xsi:type="xsd:int">1</Key>
      <Value>
      </Value>
    </KeyValuePair>
  </keys>
  <oldValues>
    <KeyValuePair>
      <Key xsi:type="xsd:string">Task Title</Key>
      <Value xsi:type="xsd:string">Title3</Value>
    </KeyValuePair>
    <KeyValuePair>
      <Key xsi:type="xsd:string">Employee</Key>
      <Value xsi:nil="true">
      </Value>
    </KeyValuePair>
  </oldValues>
  <userCookieId>00000003-b006-31b4-f9dd-84489ab2aa55</userCookieId>
</DeleteData>

```

#### 4.4 UpdateData

In this scenario, the protocol client calls the UpdateData method on a protocol server. This example updates a record in a table.

```

<UpdateData
xmlns="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/"
  <parameter>
    <WorkbookId>1.V22.70H0556qa6XWR/hYIBvZ3T90.5.en-US5.en-US73.+0480#0000-11-00-01T02:00:00:0000#+0000#0000-03-00-02T02:00:00:0000#-006036.00000000-0000-0000-0000-00000000000001.U</WorkbookId>
    <StateId>-1</StateId>
    <ProtocolClientId>
    </ProtocolClientId>
    <UserFriendlyDisplayName>DOMAIN\username</UserFriendlyDisplayName>
    <Zone>Default</Zone>
    <RequestSiteId>8b777e1b-3d99-43fb-9813-392ab88b4206</RequestSiteId>
    <CorrelationId>00000000-0000-0000-0000-000000000000</CorrelationId>
    <CompleteResponseTimeout>0</CompleteResponseTimeout>
  </parameter>
  <moniker>Default</moniker>
  <keys>
    <KeyValuePair>
      <Key xsi:type="xsd:int">1</Key>
      <Value>
      </Value>
    </KeyValuePair>
  </keys>
  <values>
    <KeyValuePair>

```



```

        <Key xsi:type="xsd:string">Task Title</Key>
        <Value xsi:type="xsd:string">Title3</Value>
    </KeyValuePair>
</values>
<oldValues>
    <KeyValuePair>
        <Key xsi:type="xsd:string">Task Title</Key>
        <Value xsi:type="xsd:string">Title2</Value>
    </KeyValuePair>
</oldValues>
<userCookieId>00000003-b006-31b4-f9dd-84489ab2aa55</userCookieId>
</UpdateData>

```

## 4.5 OpenResultSet

In this scenario, the protocol client calls the OpenResultSet method on a protocol server. This example opens a set of data from a table.

```

<OpenResultSet
xmlns="http://schemas.microsoft.com/office/Access/2010/11/Server/Webservices/AccessServerInternalService/"
  <parameter>
    <WorkbookId>1.V22.70H0556qa6XWR/hYIBvZ3T90.5.en-US5.en-US73.+0480#0000-11-00-01T02:00:00:0000#+0000#0000-03-00-02T02:00:00:0000#-006036.00000000-0000-0000-0000-00000000000001.U</WorkbookId>
    <StateId>-1</StateId>
    <ProtocolClientId>
    </ProtocolClientId>
    <UserFriendlyDisplayName>DOMAIN\username</UserFriendlyDisplayName>
    <Zone>Default</Zone>
    <RequestSiteId>8b777e1b-3d99-43fb-9813-392ab88b4206</RequestSiteId>
    <CorrelationId>00000000-0000-0000-0000-000000000000</CorrelationId>
    <CompleteResponseTimeout>0</CompleteResponseTimeout>
  </parameter>
  <queryParameters>
  </queryParameters>
  <sortExpression>&lt;Ordering
xmlns="http://schemas.microsoft.com/office/accessservices/2010/12/application" &gt;&lt;OrderName="Task Title" Direction="Ascending" /&gt;&lt;/Ordering&gt;</sortExpression>
    <moniker>Default</moniker>
    <startRowIndex>0</startRowIndex>
    <maximumRows>200</maximumRows>
    <autoResync>true</autoResync>
    <userCookieId>00000003-b006-31b4-f9dd-84489ab2aa55</userCookieId>
  </OpenResultSet>

```

## 5 Security

### 5.1 Security Considerations for Implementers

In addition to the security considerations applicable to the underlying protocols, there are security risks associated with exposing session identifiers (2). If the session identifier (2) is exposed, it is possible for an attacker to read information from, or modify data in, a session (2) on the protocol server. An implementer of this protocol needs to consider keeping session identifiers (2) protected. There could be some cases where it is desirable to expose the session identifier (2), however, an implementer is to use caution in how they expose session identifiers (2) and consider the security risks.

### 5.2 Index of Security Parameters

None.

## 6 Appendix A: Full WSDL

For ease of implementation, the full WSDL is provided in this appendix.

```
<?xml version="1.0"?>
<wsdl:definitions xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"
xmlns:tns1="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/"
targetNamespace="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
  <wsdl:types>
    <xs:schema
xmlns:tns2="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/Imports"
targetNamespace="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/Imports">
      <xs:import
namespace="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/" />
      <xs:import
namespace="http://schemas.datacontract.org/2004/07/Microsoft.Office.Access.Services" />
      <xs:import namespace="http://microsoft.com/wsdl/types/" />
      <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
    </xs:schema>
  </wsdl:types>
  <wsdl:message name="IAccessServiceSoap_SetApplicationProperties_InputMessage">
    <wsdl:part name="parameters" element="tns1:SetApplicationProperties" />
  </wsdl:message>
  <wsdl:message name="IAccessServiceSoap_SetApplicationProperties_OutputMessage">
    <wsdl:part name="parameters" element="tns1:SetApplicationPropertiesResponse" />
  </wsdl:message>
  <wsdl:message
name="IAccessServiceSoap_SetApplicationProperties_AccessServerMessageFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Access.Services"
name="detail" element="tns:AccessServerMessage" />
  </wsdl:message>
  <wsdl:message name="IAccessServiceSoap_GetApplicationProperties_InputMessage">
    <wsdl:part name="parameters" element="tns1:GetApplicationProperties" />
  </wsdl:message>
  <wsdl:message name="IAccessServiceSoap_GetApplicationProperties_OutputMessage">
    <wsdl:part name="parameters" element="tns1:GetApplicationPropertiesResponse" />
  </wsdl:message>
  <wsdl:message
name="IAccessServiceSoap_GetApplicationProperties_AccessServerMessageFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Access.Services"
name="detail" element="tns:AccessServerMessage" />
  </wsdl:message>
  <wsdl:message name="IAccessServiceSoap_GetFirewallRules_InputMessage">
    <wsdl:part name="parameters" element="tns1:GetFirewallRules" />
  </wsdl:message>
  <wsdl:message name="IAccessServiceSoap_GetFirewallRules_OutputMessage">
    <wsdl:part name="parameters" element="tns1:GetFirewallRulesResponse" />
  </wsdl:message>
  <wsdl:message
name="IAccessServiceSoap_GetFirewallRules_AccessServerMessageFault_FaultMessage">
```

```

    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Access.Services"
name="detail" element="tns:AccessServerMessage"/>
  </wsdl:message>
  <wsdl:message name="IAccessServiceSoap_AddFirewallRule_InputMessage">
    <wsdl:part name="parameters" element="tns1:AddFirewallRule"/>
  </wsdl:message>
  <wsdl:message name="IAccessServiceSoap_AddFirewallRule_OutputMessage">
    <wsdl:part name="parameters" element="tns1:AddFirewallRuleResponse"/>
  </wsdl:message>
  <wsdl:message
name="IAccessServiceSoap_AddFirewallRule_AccessServerMessageFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Access.Services"
name="detail" element="tns:AccessServerMessage"/>
  </wsdl:message>
  <wsdl:message name="IAccessServiceSoap_DeleteFirewallRules_InputMessage">
    <wsdl:part name="parameters" element="tns1:DeleteFirewallRules"/>
  </wsdl:message>
  <wsdl:message name="IAccessServiceSoap_DeleteFirewallRules_OutputMessage">
    <wsdl:part name="parameters" element="tns1:DeleteFirewallRulesResponse"/>
  </wsdl:message>
  <wsdl:message
name="IAccessServiceSoap_DeleteFirewallRules_AccessServerMessageFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Access.Services"
name="detail" element="tns:AccessServerMessage"/>
  </wsdl:message>
  <wsdl:message name="IAccessServiceSoap_CreatePackage_InputMessage">
    <wsdl:part name="parameters" element="tns1:CreatePackage"/>
  </wsdl:message>
  <wsdl:message name="IAccessServiceSoap_CreatePackage_OutputMessage">
    <wsdl:part name="parameters" element="tns1:CreatePackageResponse"/>
  </wsdl:message>
  <wsdl:message
name="IAccessServiceSoap_CreatePackage_AccessServerMessageFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Access.Services"
name="detail" element="tns:AccessServerMessage"/>
  </wsdl:message>
  <wsdl:message name="IAccessServiceSoap_GetPackage_InputMessage">
    <wsdl:part name="parameters" element="tns1:GetPackage"/>
  </wsdl:message>
  <wsdl:message name="IAccessServiceSoap_GetPackage_OutputMessage">
    <wsdl:part name="parameters" element="tns1:GetPackageResponse"/>
  </wsdl:message>
  <wsdl:message name="IAccessServiceSoap_GetPackage_AccessServerMessageFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Access.Services"
name="detail" element="tns:AccessServerMessage"/>
  </wsdl:message>
  <wsdl:message name="IAccessServiceSoap_GetAvailableServer_InputMessage">
    <wsdl:part name="parameters" element="tns1:GetAvailableServer"/>
  </wsdl:message>
  <wsdl:message name="IAccessServiceSoap_GetAvailableServer_OutputMessage">
    <wsdl:part name="parameters" element="tns1:GetAvailableServerResponse"/>
  </wsdl:message>
  <wsdl:message
name="IAccessServiceSoap_GetAvailableServer_AccessServerMessageFault_FaultMessage">

```

```

    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Access.Services"
name="detail" element="tns:AccessServerMessage"/>
  </wsdl:message>
  <wsdl:message name="IAccessServiceSoap_GetServerName_InputMessage">
    <wsdl:part name="parameters" element="tns1:GetServerName"/>
  </wsdl:message>
  <wsdl:message name="IAccessServiceSoap_GetServerName_OutputMessage">
    <wsdl:part name="parameters" element="tns1:GetServerNameResponse"/>
  </wsdl:message>
  <wsdl:message
name="IAccessServiceSoap_GetServerName_AccessServerMessageFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Access.Services"
name="detail" element="tns:AccessServerMessage"/>
  </wsdl:message>
  <wsdl:message name="IAccessServiceSoap_ProvisionDatabase_InputMessage">
    <wsdl:part name="parameters" element="tns1:ProvisionDatabase"/>
  </wsdl:message>
  <wsdl:message name="IAccessServiceSoap_ProvisionDatabase_OutputMessage">
    <wsdl:part name="parameters" element="tns1:ProvisionDatabaseResponse"/>
  </wsdl:message>
  <wsdl:message
name="IAccessServiceSoap_ProvisionDatabase_AccessServerMessageFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Access.Services"
name="detail" element="tns:AccessServerMessage"/>
  </wsdl:message>
  <wsdl:message name="IAccessServiceSoap_UnprovisionDatabase_InputMessage">
    <wsdl:part name="parameters" element="tns1:UnprovisionDatabase"/>
  </wsdl:message>
  <wsdl:message name="IAccessServiceSoap_UnprovisionDatabase_OutputMessage">
    <wsdl:part name="parameters" element="tns1:UnprovisionDatabaseResponse"/>
  </wsdl:message>
  <wsdl:message
name="IAccessServiceSoap_UnprovisionDatabase_AccessServerMessageFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Access.Services"
name="detail" element="tns:AccessServerMessage"/>
  </wsdl:message>
  <wsdl:message name="IAccessServiceSoap_ExecuteDacIncrementalUpgrade_InputMessage">
    <wsdl:part name="parameters" element="tns1:ExecuteDacIncrementalUpgrade"/>
  </wsdl:message>
  <wsdl:message name="IAccessServiceSoap_ExecuteDacIncrementalUpgrade_OutputMessage">
    <wsdl:part name="parameters" element="tns1:ExecuteDacIncrementalUpgradeResponse"/>
  </wsdl:message>
  <wsdl:message
name="IAccessServiceSoap_ExecuteDacIncrementalUpgrade_AccessServerMessageFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Access.Services"
name="detail" element="tns:AccessServerMessage"/>
  </wsdl:message>
  <wsdl:message name="IAccessServiceSoap_CopyDatabase_InputMessage">
    <wsdl:part name="parameters" element="tns1:CopyDatabase"/>
  </wsdl:message>
  <wsdl:message name="IAccessServiceSoap_CopyDatabase_OutputMessage">
    <wsdl:part name="parameters" element="tns1:CopyDatabaseResponse"/>
  </wsdl:message>
  <wsdl:message name="IAccessServiceSoap_CopyDatabase_AccessServerMessageFault_FaultMessage">

```

```

    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Access.Services"
name="detail" element="tns:AccessServerMessage"/>
  </wsdl:message>
  <wsdl:message name="IAccessServiceSoap_CheckCopyStatus_InputMessage">
    <wsdl:part name="parameters" element="tns1:CheckCopyStatus"/>
  </wsdl:message>
  <wsdl:message name="IAccessServiceSoap_CheckCopyStatus_OutputMessage">
    <wsdl:part name="parameters" element="tns1:CheckCopyStatusResponse"/>
  </wsdl:message>
  <wsdl:message
name="IAccessServiceSoap_CheckCopyStatus_AccessServerMessageFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Access.Services"
name="detail" element="tns:AccessServerMessage"/>
  </wsdl:message>
  <wsdl:message name="IAccessServiceSoap_RenameDatabase_InputMessage">
    <wsdl:part name="parameters" element="tns1:RenameDatabase"/>
  </wsdl:message>
  <wsdl:message name="IAccessServiceSoap_RenameDatabase_OutputMessage">
    <wsdl:part name="parameters" element="tns1:RenameDatabaseResponse"/>
  </wsdl:message>
  <wsdl:message
name="IAccessServiceSoap_RenameDatabase_AccessServerMessageFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Access.Services"
name="detail" element="tns:AccessServerMessage"/>
  </wsdl:message>
  <wsdl:message name="IAccessServiceSoap_DatabaseExists_InputMessage">
    <wsdl:part name="parameters" element="tns1:DatabaseExists"/>
  </wsdl:message>
  <wsdl:message name="IAccessServiceSoap_DatabaseExists_OutputMessage">
    <wsdl:part name="parameters" element="tns1:DatabaseExistsResponse"/>
  </wsdl:message>
  <wsdl:message
name="IAccessServiceSoap_DatabaseExists_AccessServerMessageFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Access.Services"
name="detail" element="tns:AccessServerMessage"/>
  </wsdl:message>
  <wsdl:message name="IAccessServiceSoap_SetReadWrite_InputMessage">
    <wsdl:part name="parameters" element="tns1:SetReadWrite"/>
  </wsdl:message>
  <wsdl:message name="IAccessServiceSoap_SetReadWrite_OutputMessage">
    <wsdl:part name="parameters" element="tns1:SetReadWriteResponse"/>
  </wsdl:message>
  <wsdl:message name="IAccessServiceSoap_SetReadWrite_AccessServerMessageFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Access.Services"
name="detail" element="tns:AccessServerMessage"/>
  </wsdl:message>
  <wsdl:message name="IAccessServiceSoap_GetHealthScore_InputMessage">
    <wsdl:part name="parameters" element="tns1:GetHealthScore"/>
  </wsdl:message>
  <wsdl:message name="IAccessServiceSoap_GetHealthScore_OutputMessage">
    <wsdl:part name="parameters" element="tns1:GetHealthScoreResponse"/>
  </wsdl:message>
  <wsdl:message
name="IAccessServiceSoap_GetHealthScore_AccessServerMessageFault_FaultMessage">

```

```

    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Access.Services"
name="detail" element="tns:AccessServerMessage"/>
  </wsdl:message>
  <wsdl:message name="IAccessServiceSoap_OpenSession_InputMessage">
    <wsdl:part name="parameters" element="tns1:OpenSession"/>
  </wsdl:message>
  <wsdl:message name="IAccessServiceSoap_OpenSession_OutputMessage">
    <wsdl:part name="parameters" element="tns1:OpenSessionResponse"/>
  </wsdl:message>
  <wsdl:message name="IAccessServiceSoap_OpenSession_AccessServerMessageFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Access.Services"
name="detail" element="tns:AccessServerMessage"/>
  </wsdl:message>
  <wsdl:message name="IAccessServiceSoap_CloseSession_InputMessage">
    <wsdl:part name="parameters" element="tns1:CloseSession"/>
  </wsdl:message>
  <wsdl:message name="IAccessServiceSoap_CloseSession_OutputMessage">
    <wsdl:part name="parameters" element="tns1:CloseSessionResponse"/>
  </wsdl:message>
  <wsdl:message name="IAccessServiceSoap_CloseSession_AccessServerMessageFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Access.Services"
name="detail" element="tns:AccessServerMessage"/>
  </wsdl:message>
  <wsdl:message name="IAccessServiceSoap_KeepAlive_InputMessage">
    <wsdl:part name="parameters" element="tns1:KeepAlive"/>
  </wsdl:message>
  <wsdl:message name="IAccessServiceSoap_KeepAlive_OutputMessage">
    <wsdl:part name="parameters" element="tns1:KeepAliveResponse"/>
  </wsdl:message>
  <wsdl:message name="IAccessServiceSoap_KeepAlive_AccessServerMessageFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Access.Services"
name="detail" element="tns:AccessServerMessage"/>
  </wsdl:message>
  <wsdl:message name="IAccessServiceSoap_GetObjectSchema_InputMessage">
    <wsdl:part name="parameters" element="tns1:GetObjectSchema"/>
  </wsdl:message>
  <wsdl:message name="IAccessServiceSoap_GetObjectSchema_OutputMessage">
    <wsdl:part name="parameters" element="tns1:GetObjectSchemaResponse"/>
  </wsdl:message>
  <wsdl:message
name="IAccessServiceSoap_GetObjectSchema_AccessServerMessageFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Access.Services"
name="detail" element="tns:AccessServerMessage"/>
  </wsdl:message>
  <wsdl:message name="IAccessServiceSoap_OpenResultSet_InputMessage">
    <wsdl:part name="parameters" element="tns1:OpenResultSet"/>
  </wsdl:message>
  <wsdl:message name="IAccessServiceSoap_OpenResultSet_OutputMessage">
    <wsdl:part name="parameters" element="tns1:OpenResultSetResponse"/>
  </wsdl:message>
  <wsdl:message
name="IAccessServiceSoap_OpenResultSet_AccessServerMessageFault_FaultMessage">
    <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Access.Services"
name="detail" element="tns:AccessServerMessage"/>

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</wsdl:message>
<wsdl:message name="IAccessServiceSoap_GetData_InputMessage">
  <wsdl:part name="parameters" element="tns1:GetData"/>
</wsdl:message>
<wsdl:message name="IAccessServiceSoap_GetData_OutputMessage">
  <wsdl:part name="parameters" element="tns1:GetDataResponse"/>
</wsdl:message>
<wsdl:message name="IAccessServiceSoap_GetData_AccessServerMessageFault_FaultMessage">
  <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Access.Services"
name="detail" element="tns:AccessServerMessage"/>
</wsdl:message>
<wsdl:message name="IAccessServiceSoap_InsertData_InputMessage">
  <wsdl:part name="parameters" element="tns1:InsertData"/>
</wsdl:message>
<wsdl:message name="IAccessServiceSoap_InsertData_OutputMessage">
  <wsdl:part name="parameters" element="tns1:InsertDataResponse"/>
</wsdl:message>
<wsdl:message name="IAccessServiceSoap_InsertData_AccessServerMessageFault_FaultMessage">
  <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Access.Services"
name="detail" element="tns:AccessServerMessage"/>
</wsdl:message>
<wsdl:message name="IAccessServiceSoap_UpdateData_InputMessage">
  <wsdl:part name="parameters" element="tns1:UpdateData"/>
</wsdl:message>
<wsdl:message name="IAccessServiceSoap_UpdateData_OutputMessage">
  <wsdl:part name="parameters" element="tns1:UpdateDataResponse"/>
</wsdl:message>
<wsdl:message name="IAccessServiceSoap_UpdateData_AccessServerMessageFault_FaultMessage">
  <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Access.Services"
name="detail" element="tns:AccessServerMessage"/>
</wsdl:message>
<wsdl:message name="IAccessServiceSoap_FixupRow_InputMessage">
  <wsdl:part name="parameters" element="tns1:FixupRow"/>
</wsdl:message>
<wsdl:message name="IAccessServiceSoap_FixupRow_OutputMessage">
  <wsdl:part name="parameters" element="tns1:FixupRowResponse"/>
</wsdl:message>
<wsdl:message name="IAccessServiceSoap_FixupRow_AccessServerMessageFault_FaultMessage">
  <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Access.Services"
name="detail" element="tns:AccessServerMessage"/>
</wsdl:message>
<wsdl:message name="IAccessServiceSoap_DeleteData_InputMessage">
  <wsdl:part name="parameters" element="tns1>DeleteData"/>
</wsdl:message>
<wsdl:message name="IAccessServiceSoap_DeleteData_OutputMessage">
  <wsdl:part name="parameters" element="tns1>DeleteDataResponse"/>
</wsdl:message>
<wsdl:message name="IAccessServiceSoap_DeleteData_AccessServerMessageFault_FaultMessage">
  <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Access.Services"
name="detail" element="tns:AccessServerMessage"/>
</wsdl:message>
<wsdl:message name="IAccessServiceSoap_GetDistinctValues_InputMessage">
  <wsdl:part name="parameters" element="tns1:GetDistinctValues"/>
</wsdl:message>
<wsdl:message name="IAccessServiceSoap_GetDistinctValues_OutputMessage">

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        <wsdl:part name="parameters" element="tns1:GetDistinctValuesResponse"/>
    </wsdl:message>
    <wsdl:message
name="IAccessServiceSoap_GetDistinctValues_AccessServerMessageFault_FaultMessage">
        <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Access.Services"
name="detail" element="tns:AccessServerMessage"/>
    </wsdl:message>
    <wsdl:message name="IAccessServiceSoap_CreateApplication_InputMessage">
        <wsdl:part name="parameters" element="tns1:CreateApplication"/>
    </wsdl:message>
    <wsdl:message name="IAccessServiceSoap_CreateApplication_OutputMessage">
        <wsdl:part name="parameters" element="tns1:CreateApplicationResponse"/>
    </wsdl:message>
    <wsdl:message
name="IAccessServiceSoap_CreateApplication_AccessServerMessageFault_FaultMessage">
        <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Access.Services"
name="detail" element="tns:AccessServerMessage"/>
    </wsdl:message>
    <wsdl:message name="IAccessServiceSoap_DeleteApplication_InputMessage">
        <wsdl:part name="parameters" element="tns1:DeleteApplication"/>
    </wsdl:message>
    <wsdl:message name="IAccessServiceSoap_DeleteApplication_OutputMessage">
        <wsdl:part name="parameters" element="tns1:DeleteApplicationResponse"/>
    </wsdl:message>
    <wsdl:message
name="IAccessServiceSoap_DeleteApplication_AccessServerMessageFault_FaultMessage">
        <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Access.Services"
name="detail" element="tns:AccessServerMessage"/>
    </wsdl:message>
    <wsdl:message name="IAccessServiceSoap_GetApplicationInformation_InputMessage">
        <wsdl:part name="parameters" element="tns1:GetApplicationInformation"/>
    </wsdl:message>
    <wsdl:message name="IAccessServiceSoap_GetApplicationInformation_OutputMessage">
        <wsdl:part name="parameters" element="tns1:GetApplicationInformationResponse"/>
    </wsdl:message>
    <wsdl:message
name="IAccessServiceSoap_GetApplicationInformation_AccessServerMessageFault_FaultMessage">
        <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Access.Services"
name="detail" element="tns:AccessServerMessage"/>
    </wsdl:message>
    <wsdl:message name="IAccessServiceSoap_GetAccessObject_InputMessage">
        <wsdl:part name="parameters" element="tns1:GetAccessObject"/>
    </wsdl:message>
    <wsdl:message name="IAccessServiceSoap_GetAccessObject_OutputMessage">
        <wsdl:part name="parameters" element="tns1:GetAccessObjectResponse"/>
    </wsdl:message>
    <wsdl:message
name="IAccessServiceSoap_GetAccessObject_AccessServerMessageFault_FaultMessage">
        <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Access.Services"
name="detail" element="tns:AccessServerMessage"/>
    </wsdl:message>
    <wsdl:message name="IAccessServiceSoap_CreateAccessObject_InputMessage">
        <wsdl:part name="parameters" element="tns1:CreateAccessObject"/>
    </wsdl:message>
    <wsdl:message name="IAccessServiceSoap_CreateAccessObject_OutputMessage">

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        <wsdl:part name="parameters" element="tns1:CreateAccessObjectResponse"/>
    </wsdl:message>
    <wsdl:message
name="IAccessServiceSoap_CreateAccessObject_AccessServerMessageFault_FaultMessage">
        <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Access.Services"
name="detail" element="tns:AccessServerMessage"/>
    </wsdl:message>
    <wsdl:message name="IAccessServiceSoap_RenameAccessObject_InputMessage">
        <wsdl:part name="parameters" element="tns1:RenameAccessObject"/>
    </wsdl:message>
    <wsdl:message name="IAccessServiceSoap_RenameAccessObject_OutputMessage">
        <wsdl:part name="parameters" element="tns1:RenameAccessObjectResponse"/>
    </wsdl:message>
    <wsdl:message
name="IAccessServiceSoap_RenameAccessObject_AccessServerMessageFault_FaultMessage">
        <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Access.Services"
name="detail" element="tns:AccessServerMessage"/>
    </wsdl:message>
    <wsdl:message name="IAccessServiceSoap_UpdateAccessObject_InputMessage">
        <wsdl:part name="parameters" element="tns1:UpdateAccessObject"/>
    </wsdl:message>
    <wsdl:message name="IAccessServiceSoap_UpdateAccessObject_OutputMessage">
        <wsdl:part name="parameters" element="tns1:UpdateAccessObjectResponse"/>
    </wsdl:message>
    <wsdl:message
name="IAccessServiceSoap_UpdateAccessObject_AccessServerMessageFault_FaultMessage">
        <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Access.Services"
name="detail" element="tns:AccessServerMessage"/>
    </wsdl:message>
    <wsdl:message name="IAccessServiceSoap_DeleteAccessObject_InputMessage">
        <wsdl:part name="parameters" element="tns1>DeleteAccessObject"/>
    </wsdl:message>
    <wsdl:message name="IAccessServiceSoap_DeleteAccessObject_OutputMessage">
        <wsdl:part name="parameters" element="tns1>DeleteAccessObjectResponse"/>
    </wsdl:message>
    <wsdl:message
name="IAccessServiceSoap_DeleteAccessObject_AccessServerMessageFault_FaultMessage">
        <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Access.Services"
name="detail" element="tns:AccessServerMessage"/>
    </wsdl:message>
    <wsdl:message name="IAccessServiceSoap_SetDataMacroTracing_InputMessage">
        <wsdl:part name="parameters" element="tns1:SetDataMacroTracing"/>
    </wsdl:message>
    <wsdl:message name="IAccessServiceSoap_SetDataMacroTracing_OutputMessage">
        <wsdl:part name="parameters" element="tns1:SetDataMacroTracingResponse"/>
    </wsdl:message>
    <wsdl:message
name="IAccessServiceSoap_SetDataMacroTracing_AccessServerMessageFault_FaultMessage">
        <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Access.Services"
name="detail" element="tns:AccessServerMessage"/>
    </wsdl:message>
    <wsdl:message name="IAccessServiceSoap_GetLinkedTableInformation_InputMessage">
        <wsdl:part name="parameters" element="tns1:GetLinkedTableInformation"/>
    </wsdl:message>
    <wsdl:message name="IAccessServiceSoap_GetLinkedTableInformation_OutputMessage">

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        <wsdl:part name="parameters" element="tns1:GetLinkedTableInformationResponse"/>
    </wsdl:message>
    <wsdl:message
name="IAccessServiceSoap_GetLinkedTableInformation_AccessServerMessageFault_FaultMessage">
        <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Access.Services"
name="detail" element="tns:AccessServerMessage"/>
    </wsdl:message>
    <wsdl:message name="IAccessServiceSoap_RefreshLinkedTableInformation_InputMessage">
        <wsdl:part name="parameters" element="tns1:RefreshLinkedTableInformation"/>
    </wsdl:message>
    <wsdl:message name="IAccessServiceSoap_RefreshLinkedTableInformation_OutputMessage">
        <wsdl:part name="parameters" element="tns1:RefreshLinkedTableInformationResponse"/>
    </wsdl:message>
    <wsdl:message
name="IAccessServiceSoap_RefreshLinkedTableInformation_AccessServerMessageFault_FaultMessage"
>
        <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Access.Services"
name="detail" element="tns:AccessServerMessage"/>
    </wsdl:message>
    <wsdl:message name="IAccessServiceSoap_ImportData_InputMessage">
        <wsdl:part name="parameters" element="tns1:ImportData"/>
    </wsdl:message>
    <wsdl:message name="IAccessServiceSoap_ImportData_OutputMessage">
        <wsdl:part name="parameters" element="tns1:ImportDataResponse"/>
    </wsdl:message>
    <wsdl:message name="IAccessServiceSoap_ImportData_AccessServerMessageFault_FaultMessage">
        <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Access.Services"
name="detail" element="tns:AccessServerMessage"/>
    </wsdl:message>
    <wsdl:message name="IAccessServiceSoap_SetDataConnectivityStatus_InputMessage">
        <wsdl:part name="parameters" element="tns1:SetDataConnectivityStatus"/>
    </wsdl:message>
    <wsdl:message name="IAccessServiceSoap_SetDataConnectivityStatus_OutputMessage">
        <wsdl:part name="parameters" element="tns1:SetDataConnectivityStatusResponse"/>
    </wsdl:message>
    <wsdl:message
name="IAccessServiceSoap_SetDataConnectivityStatus_AccessServerMessageFault_FaultMessage">
        <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Access.Services"
name="detail" element="tns:AccessServerMessage"/>
    </wsdl:message>
    <wsdl:message name="IAccessServiceSoap_GetDataConnectivityStatus_InputMessage">
        <wsdl:part name="parameters" element="tns1:GetDataConnectivityStatus"/>
    </wsdl:message>
    <wsdl:message name="IAccessServiceSoap_GetDataConnectivityStatus_OutputMessage">
        <wsdl:part name="parameters" element="tns1:GetDataConnectivityStatusResponse"/>
    </wsdl:message>
    <wsdl:message
name="IAccessServiceSoap_GetDataConnectivityStatus_AccessServerMessageFault_FaultMessage">
        <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Access.Services"
name="detail" element="tns:AccessServerMessage"/>
    </wsdl:message>
    <wsdl:message name="IAccessServiceSoap_GetDataConnectivity_InputMessage">
        <wsdl:part name="parameters" element="tns1:GetDataConnectivity"/>
    </wsdl:message>
    <wsdl:message name="IAccessServiceSoap_GetDataConnectivity_OutputMessage">

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        <wsdl:part name="parameters" element="tns1:GetDataConnectivityResponse"/>
    </wsdl:message>
    <wsdl:message
name="IAccessServiceSoap_GetDataConnectivity_AccessServerMessageFault_FaultMessage">
        <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Access.Services"
name="detail" element="tns:AccessServerMessage"/>
    </wsdl:message>
    <wsdl:message name="IAccessServiceSoap_GetThemeList_InputMessage">
        <wsdl:part name="parameters" element="tns1:GetThemeList"/>
    </wsdl:message>
    <wsdl:message name="IAccessServiceSoap_GetThemeList_OutputMessage">
        <wsdl:part name="parameters" element="tns1:GetThemeListResponse"/>
    </wsdl:message>
    <wsdl:message name="IAccessServiceSoap_GetThemeList_AccessServerMessageFault_FaultMessage">
        <wsdl:part
xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Access.Services"
name="detail" element="tns:AccessServerMessage"/>
    </wsdl:message>
    <wsdl:portType name="IAccessServiceSoap">
        <wsdl:operation name="SetApplicationProperties">
            <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/SetApplicationProperties"
message="tns1:IAccessServiceSoap_SetApplicationProperties_InputMessage"/>
            <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/SetApplicationPropertiesResponse"
message="tns1:IAccessServiceSoap_SetApplicationProperties_OutputMessage"/>
            <wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/SetApplicationPropertiesAccessServerMessageFault"
name="AccessServerMessageFault"
message="tns1:IAccessServiceSoap_SetApplicationProperties_AccessServerMessageFault_FaultMessa
ge"/>
        </wsdl:operation>
        <wsdl:operation name="GetApplicationProperties">
            <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/GetApplicationProperties"
message="tns1:IAccessServiceSoap_GetApplicationProperties_InputMessage"/>
            <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/GetApplicationPropertiesResponse"
message="tns1:IAccessServiceSoap_GetApplicationProperties_OutputMessage"/>
            <wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/GetApplicationPropertiesAccessServerMessageFault"
name="AccessServerMessageFault"
message="tns1:IAccessServiceSoap_GetApplicationProperties_AccessServerMessageFault_FaultMessa
ge"/>
        </wsdl:operation>
        <wsdl:operation name="GetFirewallRules">
            <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/GetFirewallRules"
message="tns1:IAccessServiceSoap_GetFirewallRules_InputMessage"/>
            <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/GetFirewallRulesResponse"
message="tns1:IAccessServiceSoap_GetFirewallRules_OutputMessage"/>

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    <wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/GetFirewallRulesAccessServerMessageFault"
name="AccessServerMessageFault"
message="tnsl:IAccessServiceSoap_GetFirewallRules_AccessServerMessageFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="AddFirewallRule">
    <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/AddFirewallRule"
message="tnsl:IAccessServiceSoap_AddFirewallRule_InputMessage"/>
    <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/AddFirewallRuleResponse"
message="tnsl:IAccessServiceSoap_AddFirewallRule_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/AddFirewallRuleAccessServerMessageFault"
name="AccessServerMessageFault"
message="tnsl:IAccessServiceSoap_AddFirewallRule_AccessServerMessageFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="DeleteFirewallRules">
    <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/DeleteFirewallRules"
message="tnsl:IAccessServiceSoap_DeleteFirewallRules_InputMessage"/>
    <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/DeleteFirewallRulesResponse"
message="tnsl:IAccessServiceSoap_DeleteFirewallRules_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/DeleteFirewallRulesAccessServerMessageFault"
name="AccessServerMessageFault"
message="tnsl:IAccessServiceSoap_DeleteFirewallRules_AccessServerMessageFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="CreatePackage">
    <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/CreatePackage"
message="tnsl:IAccessServiceSoap_CreatePackage_InputMessage"/>
    <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/CreatePackageResponse"
message="tnsl:IAccessServiceSoap_CreatePackage_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/CreatePackageAccessServerMessageFault"
name="AccessServerMessageFault"
message="tnsl:IAccessServiceSoap_CreatePackage_AccessServerMessageFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetPackage">
    <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/GetPackage"
message="tnsl:IAccessServiceSoap_GetPackage_InputMessage"/>
    <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/GetPackageResponse"
message="tnsl:IAccessServiceSoap_GetPackage_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/GetPackageAccessServerMessageFault"

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name="AccessServerMessageFault"
message="tnsl:IAccessServiceSoap_GetPackage_AccessServerMessageFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="GetAvailableServer">
    <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/GetAvailableServer"
message="tnsl:IAccessServiceSoap_GetAvailableServer_InputMessage"/>
    <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/GetAvailableServerResponse"
message="tnsl:IAccessServiceSoap_GetAvailableServer_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/GetAvailableServerAccessServerMessageFault"
name="AccessServerMessageFault"
message="tnsl:IAccessServiceSoap_GetAvailableServer_AccessServerMessageFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetServerName">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/GetServerName"
message="tnsl:IAccessServiceSoap_GetServerName_InputMessage"/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/GetServerNameResponse"
message="tnsl:IAccessServiceSoap_GetServerName_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/GetServerNameAccessServerMessageFault"
name="AccessServerMessageFault"
message="tnsl:IAccessServiceSoap_GetServerName_AccessServerMessageFault_FaultMessage"/>
      </wsdl:operation>
      <wsdl:operation name="ProvisionDatabase">
        <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/ProvisionDatabase"
message="tnsl:IAccessServiceSoap_ProvisionDatabase_InputMessage"/>
        <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/ProvisionDatabaseResponse"
message="tnsl:IAccessServiceSoap_ProvisionDatabase_OutputMessage"/>
        <wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/ProvisionDatabaseAccessServerMessageFault"
name="AccessServerMessageFault"
message="tnsl:IAccessServiceSoap_ProvisionDatabase_AccessServerMessageFault_FaultMessage"/>
        </wsdl:operation>
        <wsdl:operation name="UnprovisionDatabase">
          <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/UnprovisionDatabase"
message="tnsl:IAccessServiceSoap_UnprovisionDatabase_InputMessage"/>
          <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/UnprovisionDatabaseResponse"
message="tnsl:IAccessServiceSoap_UnprovisionDatabase_OutputMessage"/>
          <wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/UnprovisionDatabaseAccessServerMessageFault"
name="AccessServerMessageFault"
message="tnsl:IAccessServiceSoap_UnprovisionDatabase_AccessServerMessageFault_FaultMessage"/>
          </wsdl:operation>
          <wsdl:operation name="ExecuteDacIncrementalUpgrade">

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    <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/ExecuteDacIncrementalUpgrade"
message="tnsl:IAccessServiceSoap_ExecuteDacIncrementalUpgrade_InputMessage"/>
    <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/ExecuteDacIncrementalUpgradeResponse"
message="tnsl:IAccessServiceSoap_ExecuteDacIncrementalUpgrade_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/ExecuteDacIncrementalUpgradeAccessServerMessageFault"
name="AccessServerMessageFault"
message="tnsl:IAccessServiceSoap_ExecuteDacIncrementalUpgrade_AccessServerMessageFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="CopyDatabase">
    <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/CopyDatabase"
message="tnsl:IAccessServiceSoap_CopyDatabase_InputMessage"/>
    <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/CopyDatabaseResponse"
message="tnsl:IAccessServiceSoap_CopyDatabase_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/CopyDatabaseAccessServerMessageFault"
name="AccessServerMessageFault"
message="tnsl:IAccessServiceSoap_CopyDatabase_AccessServerMessageFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="CheckCopyStatus">
    <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/CheckCopyStatus"
message="tnsl:IAccessServiceSoap_CheckCopyStatus_InputMessage"/>
    <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/CheckCopyStatusResponse"
message="tnsl:IAccessServiceSoap_CheckCopyStatus_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/CheckCopyStatusAccessServerMessageFault"
name="AccessServerMessageFault"
message="tnsl:IAccessServiceSoap_CheckCopyStatus_AccessServerMessageFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="RenameDatabase">
    <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/RenameDatabase"
message="tnsl:IAccessServiceSoap_RenameDatabase_InputMessage"/>
    <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/RenameDatabaseResponse"
message="tnsl:IAccessServiceSoap_RenameDatabase_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/RenameDatabaseAccessServerMessageFault"
name="AccessServerMessageFault"
message="tnsl:IAccessServiceSoap_RenameDatabase_AccessServerMessageFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="DatabaseExists">
    <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/DatabaseExists"
message="tnsl:IAccessServiceSoap_DatabaseExists_InputMessage"/>
    <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/DatabaseExistsResponse"
message="tnsl:IAccessServiceSoap_DatabaseExists_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/DatabaseExistsAccessServerMessageFault"
name="AccessServerMessageFault"
message="tnsl:IAccessServiceSoap_DatabaseExists_AccessServerMessageFault_FaultMessage"/>
    </wsdl:operation>
    </wsdl:operation>

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erInternalService/IAccessServiceSoap/DatabaseExists"
message="tnsl:IAccessServiceSoap_DatabaseExists_InputMessage"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/DatabaseExistsResponse"
message="tnsl:IAccessServiceSoap_DatabaseExists_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/DatabaseExistsAccessServerMessageFault"
name="AccessServerMessageFault"
message="tnsl:IAccessServiceSoap_DatabaseExists_AccessServerMessageFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="SetReadWrite">
    <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/SetReadWrite"
message="tnsl:IAccessServiceSoap_SetReadWrite_InputMessage"/>
    <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/SetReadWriteResponse"
message="tnsl:IAccessServiceSoap_SetReadWrite_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/SetReadWriteAccessServerMessageFault"
name="AccessServerMessageFault"
message="tnsl:IAccessServiceSoap_SetReadWrite_AccessServerMessageFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetHealthScore">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/GetHealthScore"
message="tnsl:IAccessServiceSoap_GetHealthScore_InputMessage"/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/GetHealthScoreResponse"
message="tnsl:IAccessServiceSoap_GetHealthScore_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/GetHealthScoreAccessServerMessageFault"
name="AccessServerMessageFault"
message="tnsl:IAccessServiceSoap_GetHealthScore_AccessServerMessageFault_FaultMessage"/>
      </wsdl:operation>
      <wsdl:operation name="OpenSession">
        <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/OpenSession"
message="tnsl:IAccessServiceSoap_OpenSession_InputMessage"/>
        <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/OpenSessionResponse"
message="tnsl:IAccessServiceSoap_OpenSession_OutputMessage"/>
        <wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/OpenSessionAccessServerMessageFault"
name="AccessServerMessageFault"
message="tnsl:IAccessServiceSoap_OpenSession_AccessServerMessageFault_FaultMessage"/>
        </wsdl:operation>
        <wsdl:operation name="CloseSession">
          <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/CloseSession"
message="tnsl:IAccessServiceSoap_CloseSession_InputMessage"/>
          <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ

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erInternalService/IAccessServiceSoap/CloseSessionResponse"
message="tnsl:IAccessServiceSoap_CloseSession_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/CloseSessionAccessServerMessageFault"
name="AccessServerMessageFault"
message="tnsl:IAccessServiceSoap_CloseSession_AccessServerMessageFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="KeepAlive">
    <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/KeepAlive"
message="tnsl:IAccessServiceSoap_KeepAlive_InputMessage"/>
    <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/KeepAliveResponse"
message="tnsl:IAccessServiceSoap_KeepAlive_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/KeepAliveAccessServerMessageFault"
name="AccessServerMessageFault"
message="tnsl:IAccessServiceSoap_KeepAlive_AccessServerMessageFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetObjectSchema">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/GetObjectSchema"
message="tnsl:IAccessServiceSoap_GetObjectSchema_InputMessage"/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/GetObjectSchemaResponse"
message="tnsl:IAccessServiceSoap_GetObjectSchema_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/GetObjectSchemaAccessServerMessageFault"
name="AccessServerMessageFault"
message="tnsl:IAccessServiceSoap_GetObjectSchema_AccessServerMessageFault_FaultMessage"/>
      </wsdl:operation>
      <wsdl:operation name="OpenResultSet">
        <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/OpenResultSet"
message="tnsl:IAccessServiceSoap_OpenResultSet_InputMessage"/>
        <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/OpenResultSetResponse"
message="tnsl:IAccessServiceSoap_OpenResultSet_OutputMessage"/>
        <wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/OpenResultSetAccessServerMessageFault"
name="AccessServerMessageFault"
message="tnsl:IAccessServiceSoap_OpenResultSet_AccessServerMessageFault_FaultMessage"/>
        </wsdl:operation>
        <wsdl:operation name="GetData">
          <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/GetData"
message="tnsl:IAccessServiceSoap_GetData_InputMessage"/>
          <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/GetDataResponse"
message="tnsl:IAccessServiceSoap_GetData_OutputMessage"/>
          <wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ

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erInternalService/IAccessServiceSoap/GetDataAccessServerMessageFault"
name="AccessServerMessageFault"
message="tnsl:IAccessServiceSoap_GetData_AccessServerMessageFault_FaultMessage"/>
</wsdl:operation>
<wsdl:operation name="InsertData">
<wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/InsertData"
message="tnsl:IAccessServiceSoap_InsertData_InputMessage"/>
<wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/InsertDataResponse"
message="tnsl:IAccessServiceSoap_InsertData_OutputMessage"/>
<wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/InsertDataAccessServerMessageFault"
name="AccessServerMessageFault"
message="tnsl:IAccessServiceSoap_InsertData_AccessServerMessageFault_FaultMessage"/>
</wsdl:operation>
<wsdl:operation name="UpdateData">
<wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/UpdateData"
message="tnsl:IAccessServiceSoap_UpdateData_InputMessage"/>
<wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/UpdateDataResponse"
message="tnsl:IAccessServiceSoap_UpdateData_OutputMessage"/>
<wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/UpdateDataAccessServerMessageFault"
name="AccessServerMessageFault"
message="tnsl:IAccessServiceSoap_UpdateData_AccessServerMessageFault_FaultMessage"/>
</wsdl:operation>
<wsdl:operation name="FixupRow">
<wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/FixupRow"
message="tnsl:IAccessServiceSoap_FixupRow_InputMessage"/>
<wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/FixupRowResponse"
message="tnsl:IAccessServiceSoap_FixupRow_OutputMessage"/>
<wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/FixupRowAccessServerMessageFault"
name="AccessServerMessageFault"
message="tnsl:IAccessServiceSoap_FixupRow_AccessServerMessageFault_FaultMessage"/>
</wsdl:operation>
<wsdl:operation name="DeleteData">
<wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/DeleteData"
message="tnsl:IAccessServiceSoap_DeleteData_InputMessage"/>
<wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/DeleteDataResponse"
message="tnsl:IAccessServiceSoap_DeleteData_OutputMessage"/>
<wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/DeleteDataAccessServerMessageFault"
name="AccessServerMessageFault"
message="tnsl:IAccessServiceSoap_DeleteData_AccessServerMessageFault_FaultMessage"/>
</wsdl:operation>

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    <wsdl:operation name="GetDistinctValues">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/GetDistinctValues"
message="tnsl:IAccessServiceSoap_GetDistinctValues_InputMessage"/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/GetDistinctValuesResponse"
message="tnsl:IAccessServiceSoap_GetDistinctValues_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/GetDistinctValuesAccessServerMessageFault"
name="AccessServerMessageFault"
message="tnsl:IAccessServiceSoap_GetDistinctValues_AccessServerMessageFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="CreateApplication">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/CreateApplication"
message="tnsl:IAccessServiceSoap_CreateApplication_InputMessage"/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/CreateApplicationResponse"
message="tnsl:IAccessServiceSoap_CreateApplication_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/CreateApplicationAccessServerMessageFault"
name="AccessServerMessageFault"
message="tnsl:IAccessServiceSoap_CreateApplication_AccessServerMessageFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="DeleteApplication">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/DeleteApplication"
message="tnsl:IAccessServiceSoap_DeleteApplication_InputMessage"/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/DeleteApplicationResponse"
message="tnsl:IAccessServiceSoap_DeleteApplication_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/DeleteApplicationAccessServerMessageFault"
name="AccessServerMessageFault"
message="tnsl:IAccessServiceSoap_DeleteApplication_AccessServerMessageFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetApplicationInformation">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/GetApplicationInformation"
message="tnsl:IAccessServiceSoap_GetApplicationInformation_InputMessage"/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/GetApplicationInformationResponse"
message="tnsl:IAccessServiceSoap_GetApplicationInformation_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/GetApplicationInformationAccessServerMessageFault"
name="AccessServerMessageFault"
message="tnsl:IAccessServiceSoap_GetApplicationInformation_AccessServerMessageFault_FaultMess
age"/>
    </wsdl:operation>
    <wsdl:operation name="GetAccessObject">

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    <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/GetAccessObject"
message="tnsl:IAccessServiceSoap_GetAccessObject_InputMessage"/>
    <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/GetAccessObjectResponse"
message="tnsl:IAccessServiceSoap_GetAccessObject_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/GetAccessObjectAccessServerMessageFault"
name="AccessServerMessageFault"
message="tnsl:IAccessServiceSoap_GetAccessObject_AccessServerMessageFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="CreateAccessObject">
    <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/CreateAccessObject"
message="tnsl:IAccessServiceSoap_CreateAccessObject_InputMessage"/>
    <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/CreateAccessObjectResponse"
message="tnsl:IAccessServiceSoap_CreateAccessObject_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/CreateAccessObjectAccessServerMessageFault"
name="AccessServerMessageFault"
message="tnsl:IAccessServiceSoap_CreateAccessObject_AccessServerMessageFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="RenameAccessObject">
    <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/RenameAccessObject"
message="tnsl:IAccessServiceSoap_RenameAccessObject_InputMessage"/>
    <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/RenameAccessObjectResponse"
message="tnsl:IAccessServiceSoap_RenameAccessObject_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/RenameAccessObjectAccessServerMessageFault"
name="AccessServerMessageFault"
message="tnsl:IAccessServiceSoap_RenameAccessObject_AccessServerMessageFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="UpdateAccessObject">
    <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/UpdateAccessObject"
message="tnsl:IAccessServiceSoap_UpdateAccessObject_InputMessage"/>
    <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/UpdateAccessObjectResponse"
message="tnsl:IAccessServiceSoap_UpdateAccessObject_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/UpdateAccessObjectAccessServerMessageFault"
name="AccessServerMessageFault"
message="tnsl:IAccessServiceSoap_UpdateAccessObject_AccessServerMessageFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="DeleteAccessObject">
    <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ

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erInternalService/IAccessServiceSoap/DeleteAccessObject"
message="tnsl:IAccessServiceSoap_DeleteAccessObject_InputMessage"/>
  <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/DeleteAccessObjectResponse"
message="tnsl:IAccessServiceSoap_DeleteAccessObject_OutputMessage"/>
  <wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/DeleteAccessObjectAccessServerMessageFault"
name="AccessServerMessageFault"
message="tnsl:IAccessServiceSoap_DeleteAccessObject_AccessServerMessageFault_FaultMessage"/>
  </wsdl:operation>
  <wsdl:operation name="SetDataMacroTracing">
    <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/SetDataMacroTracing"
message="tnsl:IAccessServiceSoap_SetDataMacroTracing_InputMessage"/>
    <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/SetDataMacroTracingResponse"
message="tnsl:IAccessServiceSoap_SetDataMacroTracing_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/SetDataMacroTracingAccessServerMessageFault"
name="AccessServerMessageFault"
message="tnsl:IAccessServiceSoap_SetDataMacroTracing_AccessServerMessageFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetLinkedTableInformation">
      <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/GetLinkedTableInformation"
message="tnsl:IAccessServiceSoap_GetLinkedTableInformation_InputMessage"/>
      <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/GetLinkedTableInformationResponse"
message="tnsl:IAccessServiceSoap_GetLinkedTableInformation_OutputMessage"/>
      <wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/GetLinkedTableInformationAccessServerMessageFault"
name="AccessServerMessageFault"
message="tnsl:IAccessServiceSoap_GetLinkedTableInformation_AccessServerMessageFault_FaultMess
age"/>
      </wsdl:operation>
      <wsdl:operation name="RefreshLinkedTableInformation">
        <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/RefreshLinkedTableInformation"
message="tnsl:IAccessServiceSoap_RefreshLinkedTableInformation_InputMessage"/>
        <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/RefreshLinkedTableInformationResponse"
message="tnsl:IAccessServiceSoap_RefreshLinkedTableInformation_OutputMessage"/>
        <wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/RefreshLinkedTableInformationAccessServerMessageFault"
name="AccessServerMessageFault"
message="tnsl:IAccessServiceSoap_RefreshLinkedTableInformation_AccessServerMessageFault_Fault
Message"/>
        </wsdl:operation>
        <wsdl:operation name="ImportData">
          <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/ImportData"
message="tnsl:IAccessServiceSoap_ImportData_InputMessage"/>

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    <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/ImportDataResponse"
message="tnsl:IAccessServiceSoap_ImportData_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/ImportDataAccessServerMessageFault"
name="AccessServerMessageFault"
message="tnsl:IAccessServiceSoap_ImportData_AccessServerMessageFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="SetDataConnectivityStatus">
    <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/SetDataConnectivityStatus"
message="tnsl:IAccessServiceSoap_SetDataConnectivityStatus_InputMessage"/>
    <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/SetDataConnectivityStatusResponse"
message="tnsl:IAccessServiceSoap_SetDataConnectivityStatus_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/SetDataConnectivityStatusAccessServerMessageFault"
name="AccessServerMessageFault"
message="tnsl:IAccessServiceSoap_SetDataConnectivityStatus_AccessServerMessageFault_FaultMess
age"/>
    </wsdl:operation>
    <wsdl:operation name="GetDataConnectivityStatus">
    <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/GetDataConnectivityStatus"
message="tnsl:IAccessServiceSoap_GetDataConnectivityStatus_InputMessage"/>
    <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/GetDataConnectivityStatusResponse"
message="tnsl:IAccessServiceSoap_GetDataConnectivityStatus_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/GetDataConnectivityStatusAccessServerMessageFault"
name="AccessServerMessageFault"
message="tnsl:IAccessServiceSoap_GetDataConnectivityStatus_AccessServerMessageFault_FaultMess
age"/>
    </wsdl:operation>
    <wsdl:operation name="GetDataConnectivity">
    <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/GetDataConnectivity"
message="tnsl:IAccessServiceSoap_GetDataConnectivity_InputMessage"/>
    <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/GetDataConnectivityResponse"
message="tnsl:IAccessServiceSoap_GetDataConnectivity_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/GetDataConnectivityAccessServerMessageFault"
name="AccessServerMessageFault"
message="tnsl:IAccessServiceSoap_GetDataConnectivity_AccessServerMessageFault_FaultMessage"/>
    </wsdl:operation>
    <wsdl:operation name="GetThemeList">
    <wsdl:input
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServ
erInternalService/IAccessServiceSoap/GetThemeList"
message="tnsl:IAccessServiceSoap_GetThemeList_InputMessage"/>

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    <wsdl:output
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/GetThemeListResponse"
message="tns1:IAccessServiceSoap_GetThemeList_OutputMessage"/>
    <wsdl:fault
wsaw:Action="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/GetThemeListAccessServerMessageFault"
name="AccessServerMessageFault"
message="tns1:IAccessServiceSoap_GetThemeList_AccessServerMessageFault_FaultMessage"/>
    </wsdl:operation>
</wsdl:portType>
<wsdl:binding name="DefaultBinding_IAccessServiceSoap" type="tns1:IAccessServiceSoap">
  <soap:binding transport="http://schemas.xmlsoap.org/soap/http"/>
  <wsdl:operation name="SetApplicationProperties">
    <soap:operation
soapAction="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/SetApplicationProperties" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="AccessServerMessageFault">
      <soap:fault use="literal" name="AccessServerMessageFault" namespace=""/>
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="GetApplicationProperties">
    <soap:operation
soapAction="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/GetApplicationProperties" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="AccessServerMessageFault">
      <soap:fault use="literal" name="AccessServerMessageFault" namespace=""/>
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="GetFirewallRules">
    <soap:operation
soapAction="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/GetFirewallRules" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="AccessServerMessageFault">
      <soap:fault use="literal" name="AccessServerMessageFault" namespace=""/>
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="AddFirewallRule">
    <soap:operation
soapAction="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/AddFirewallRule" style="document"/>
    <wsdl:input>

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        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="AccessServerMessageFault">
        <soap:fault use="literal" name="AccessServerMessageFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="DeleteFirewallRules">
    <soap:operation
soapAction="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/DeleteFirewallRules" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="AccessServerMessageFault">
        <soap:fault use="literal" name="AccessServerMessageFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="CreatePackage">
    <soap:operation
soapAction="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/CreatePackage" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="AccessServerMessageFault">
        <soap:fault use="literal" name="AccessServerMessageFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetPackage">
    <soap:operation
soapAction="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/GetPackage" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="AccessServerMessageFault">
        <soap:fault use="literal" name="AccessServerMessageFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetAvailableServer">
    <soap:operation
soapAction="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/GetAvailableServer" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>

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    </wsdl:output>
    <wsdl:fault name="AccessServerMessageFault">
      <soap:fault use="literal" name="AccessServerMessageFault" namespace=""/>
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="GetServerName">
    <soap:operation
soapAction="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/GetServerName" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="AccessServerMessageFault">
      <soap:fault use="literal" name="AccessServerMessageFault" namespace=""/>
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="ProvisionDatabase">
    <soap:operation
soapAction="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/ProvisionDatabase" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="AccessServerMessageFault">
      <soap:fault use="literal" name="AccessServerMessageFault" namespace=""/>
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="UnprovisionDatabase">
    <soap:operation
soapAction="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/UnprovisionDatabase" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="AccessServerMessageFault">
      <soap:fault use="literal" name="AccessServerMessageFault" namespace=""/>
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="ExecuteDacIncrementalUpgrade">
    <soap:operation
soapAction="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/ExecuteDacIncrementalUpgrade" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="AccessServerMessageFault">
      <soap:fault use="literal" name="AccessServerMessageFault" namespace=""/>
    </wsdl:fault>
  </wsdl:operation>

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</wsdl:operation>
<wsdl:operation name="CopyDatabase">
  <soap:operation
soapAction="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServe
rInternalService/IAccessServiceSoap/CopyDatabase" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="AccessServerMessageFault">
    <soap:fault use="literal" name="AccessServerMessageFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="CheckCopyStatus">
  <soap:operation
soapAction="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServe
rInternalService/IAccessServiceSoap/CheckCopyStatus" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="AccessServerMessageFault">
    <soap:fault use="literal" name="AccessServerMessageFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="RenameDatabase">
  <soap:operation
soapAction="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServe
rInternalService/IAccessServiceSoap/RenameDatabase" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="AccessServerMessageFault">
    <soap:fault use="literal" name="AccessServerMessageFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="DatabaseExists">
  <soap:operation
soapAction="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServe
rInternalService/IAccessServiceSoap/DatabaseExists" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="AccessServerMessageFault">
    <soap:fault use="literal" name="AccessServerMessageFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="SetReadWrite">

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    <soap:operation
soapAction="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServe
rInternalService/IAccessServiceSoap/SetReadWrite" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="AccessServerMessageFault">
        <soap:fault use="literal" name="AccessServerMessageFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetHealthScore">
    <soap:operation
soapAction="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServe
rInternalService/IAccessServiceSoap/GetHealthScore" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="AccessServerMessageFault">
        <soap:fault use="literal" name="AccessServerMessageFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="OpenSession">
    <soap:operation
soapAction="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServe
rInternalService/IAccessServiceSoap/OpenSession" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="AccessServerMessageFault">
        <soap:fault use="literal" name="AccessServerMessageFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="CloseSession">
    <soap:operation
soapAction="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServe
rInternalService/IAccessServiceSoap/CloseSession" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="AccessServerMessageFault">
        <soap:fault use="literal" name="AccessServerMessageFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="KeepAlive">
    <soap:operation
soapAction="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServe
rInternalService/IAccessServiceSoap/KeepAlive" style="document"/>
    <wsdl:input>

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        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="AccessServerMessageFault">
        <soap:fault use="literal" name="AccessServerMessageFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetObjectSchema">
    <soap:operation
soapAction="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/GetObjectSchema" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="AccessServerMessageFault">
        <soap:fault use="literal" name="AccessServerMessageFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="OpenResultSet">
    <soap:operation
soapAction="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/OpenResultSet" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="AccessServerMessageFault">
        <soap:fault use="literal" name="AccessServerMessageFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetData">
    <soap:operation
soapAction="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/GetData" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="AccessServerMessageFault">
        <soap:fault use="literal" name="AccessServerMessageFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="InsertData">
    <soap:operation
soapAction="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/InsertData" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>

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    </wsdl:output>
    <wsdl:fault name="AccessServerMessageFault">
      <soap:fault use="literal" name="AccessServerMessageFault" namespace=""/>
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="UpdateData">
    <soap:operation
soapAction="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/UpdateData" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="AccessServerMessageFault">
      <soap:fault use="literal" name="AccessServerMessageFault" namespace=""/>
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="FixupRow">
    <soap:operation
soapAction="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/FixupRow" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="AccessServerMessageFault">
      <soap:fault use="literal" name="AccessServerMessageFault" namespace=""/>
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="DeleteData">
    <soap:operation
soapAction="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/DeleteData" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="AccessServerMessageFault">
      <soap:fault use="literal" name="AccessServerMessageFault" namespace=""/>
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="GetDistinctValues">
    <soap:operation
soapAction="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/GetDistinctValues" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="AccessServerMessageFault">
      <soap:fault use="literal" name="AccessServerMessageFault" namespace=""/>
    </wsdl:fault>
  </wsdl:operation>

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</wsdl:operation>
<wsdl:operation name="CreateApplication">
  <soap:operation
soapAction="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServe
rInternalService/IAccessServiceSoap/CreateApplication" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="AccessServerMessageFault">
    <soap:fault use="literal" name="AccessServerMessageFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="DeleteApplication">
  <soap:operation
soapAction="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServe
rInternalService/IAccessServiceSoap/DeleteApplication" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="AccessServerMessageFault">
    <soap:fault use="literal" name="AccessServerMessageFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetApplicationInformation">
  <soap:operation
soapAction="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServe
rInternalService/IAccessServiceSoap/GetApplicationInformation" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="AccessServerMessageFault">
    <soap:fault use="literal" name="AccessServerMessageFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetAccessObject">
  <soap:operation
soapAction="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServe
rInternalService/IAccessServiceSoap/GetAccessObject" style="document"/>
  <wsdl:input>
    <soap:body use="literal"/>
  </wsdl:input>
  <wsdl:output>
    <soap:body use="literal"/>
  </wsdl:output>
  <wsdl:fault name="AccessServerMessageFault">
    <soap:fault use="literal" name="AccessServerMessageFault" namespace=""/>
  </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="CreateAccessObject">

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    <soap:operation
soapAction="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServe
rInternalService/IAccessServiceSoap/CreateAccessObject" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="AccessServerMessageFault">
        <soap:fault use="literal" name="AccessServerMessageFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="RenameAccessObject">
    <soap:operation
soapAction="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServe
rInternalService/IAccessServiceSoap/RenameAccessObject" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="AccessServerMessageFault">
        <soap:fault use="literal" name="AccessServerMessageFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="UpdateAccessObject">
    <soap:operation
soapAction="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServe
rInternalService/IAccessServiceSoap/UpdateAccessObject" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="AccessServerMessageFault">
        <soap:fault use="literal" name="AccessServerMessageFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="DeleteAccessObject">
    <soap:operation
soapAction="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServe
rInternalService/IAccessServiceSoap/DeleteAccessObject" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="AccessServerMessageFault">
        <soap:fault use="literal" name="AccessServerMessageFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="SetDataMacroTracing">
    <soap:operation
soapAction="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServe
rInternalService/IAccessServiceSoap/SetDataMacroTracing" style="document"/>
    <wsdl:input>

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        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="AccessServerMessageFault">
        <soap:fault use="literal" name="AccessServerMessageFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="GetLinkedTableInformation">
    <soap:operation
soapAction="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/GetLinkedTableInformation" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="AccessServerMessageFault">
        <soap:fault use="literal" name="AccessServerMessageFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="RefreshLinkedTableInformation">
    <soap:operation
soapAction="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/RefreshLinkedTableInformation" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="AccessServerMessageFault">
        <soap:fault use="literal" name="AccessServerMessageFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="ImportData">
    <soap:operation
soapAction="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/ImportData" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="AccessServerMessageFault">
        <soap:fault use="literal" name="AccessServerMessageFault" namespace=""/>
    </wsdl:fault>
</wsdl:operation>
<wsdl:operation name="SetDataConnectivityStatus">
    <soap:operation
soapAction="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/SetDataConnectivityStatus" style="document"/>
    <wsdl:input>
        <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
        <soap:body use="literal"/>
    </wsdl:output>

```



```

    </wsdl:output>
    <wsdl:fault name="AccessServerMessageFault">
      <soap:fault use="literal" name="AccessServerMessageFault" namespace=""/>
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="GetDataConnectivityStatus">
    <soap:operation
soapAction="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/GetDataConnectivityStatus" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="AccessServerMessageFault">
      <soap:fault use="literal" name="AccessServerMessageFault" namespace=""/>
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="GetDataConnectivity">
    <soap:operation
soapAction="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/GetDataConnectivity" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="AccessServerMessageFault">
      <soap:fault use="literal" name="AccessServerMessageFault" namespace=""/>
    </wsdl:fault>
  </wsdl:operation>
  <wsdl:operation name="GetThemeList">
    <soap:operation
soapAction="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/IAccessServiceSoap/GetThemeList" style="document"/>
    <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
    <wsdl:fault name="AccessServerMessageFault">
      <soap:fault use="literal" name="AccessServerMessageFault" namespace=""/>
    </wsdl:fault>
  </wsdl:operation>
</wsdl:binding>
</wsdl:definitions>

```

## 7 Appendix B: Full XML Schema

For ease of implementation, the following sections provide the full XML schema for this protocol.

| Schema name   | Prefix | Section             |
|---|--------|---------------------|
| <a href="http://microsoft.com/wsd/types/">http://microsoft.com/wsd/types/</a>   | q1     | <a href="#">7.1</a> |
| <a href="http://schemas.datacontract.org/2004/07/Microsoft.Office.Access.Services">http://schemas.datacontract.org/2004/07/Microsoft.Office.Access.Services</a>   | tns    | <a href="#">7.2</a> |
| <a href="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/">http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/</a> | tns1   | <a href="#">7.3</a> |

### 7.1 <http://microsoft.com/wsd/types/> Schema

```
<?xml version="1.0"?>
<xs:schema elementFormDefault="qualified" targetNamespace="http://microsoft.com/wsd/types/"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:simpleType name="guid">
    <xs:restriction base="xs:string">
      <xs:pattern value="[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}"/>
    </xs:restriction>
  </xs:simpleType>
</xs:schema>
```

### 7.2 <http://schemas.datacontract.org/2004/07/Microsoft.Office.Access.Services> Schema

```
<?xml version="1.0"?>
<xs:schema
  xmlns:tns="http://schemas.datacontract.org/2004/07/Microsoft.Office.Access.Services"
  elementFormDefault="qualified"
  targetNamespace="http://schemas.datacontract.org/2004/07/Microsoft.Office.Access.Services"
  xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/" />
  <xs:complexType name="AccessServerMessage">
    <xs:sequence>
      <xs:element minOccurs="0" name="Buttons" type="tns:AccessServerMessageButtons"/>
      <xs:element minOccurs="0" name="Caption" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="Description" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="ErrorNumber" nillable="true" type="xs:int"/>
      <xs:element minOccurs="0" name="ExtendedDescription" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="HealthInformation" nillable="true"
        type="tns:ServerHealthInformation"/>
      <xs:element minOccurs="0" name="HelpDisplayText" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="HelpTopicId" nillable="true" type="xs:string"/>
      <xs:element minOccurs="0" name="Id" type="tns:AccessServerMessageId"/>
      <xs:element minOccurs="0" name="MessageType" type="tns:AccessServerMessageType"/>
      <xs:element minOccurs="0" name="Severity" type="tns:AccessServerMessageSeverity"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="AccessServerMessage" nillable="true" type="tns:AccessServerMessage"/>
  <xs:simpleType name="AccessServerMessageButtons">
    <xs:list>
      <xs:simpleType>
```

```

    <xs:restriction base="xs:string">
      <xs:enumeration value="None"/>
      <xs:enumeration value="OK"/>
      <xs:enumeration value="Cancel"/>
      <xs:enumeration value="Yes"/>
      <xs:enumeration value="No"/>
    </xs:restriction>
  </xs:simpleType>
</xs:list>
</xs:simpleType>
<xs:element name="AccessServerMessageButtons" nillable="true"
type="tns:AccessServerMessageButtons"/>
<xs:complexType name="ServerHealthInformation">
  <xs:sequence>
    <xs:element minOccurs="0" name="HealthScore" type="xs:float"/>
    <xs:element minOccurs="0" name="StateFlags" type="tns:ServerStateFlags"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="ServerHealthInformation" nillable="true"
type="tns:ServerHealthInformation"/>
<xs:simpleType name="ServerStateFlags">
  <xs:list>
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:enumeration value="None"/>
        <xs:enumeration value="Probation"/>
        <xs:enumeration value="ShuttingDown"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:list>
</xs:simpleType>
<xs:element name="ServerStateFlags" nillable="true" type="tns:ServerStateFlags"/>
<xs:simpleType name="AccessServerMessageId">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Blank"/>
    <xs:enumeration value="InternalError"/>
    <xs:enumeration value="ManagementUIInternalError"/>
    <xs:enumeration value="InvalidValueForField"/>
    <xs:enumeration value="GetRecordsPermissionsFailure"/>
    <xs:enumeration value="WriteRecordsPermissionsFailure"/>
    <xs:enumeration value="NotMemberOfRole"/>
    <xs:enumeration value="ServerReadOnly"/>
    <xs:enumeration value="MaxSessionsPerUserExceeded"/>
    <xs:enumeration value="RetryError"/>
    <xs:enumeration value="MaxRequestDurationExceeded"/>
    <xs:enumeration value="ProductExpired"/>
    <xs:enumeration value="NewWorkbookSessionTimeout"/>
    <xs:enumeration value="DataException_CacheOperationInvalid"/>
    <xs:enumeration value="DataException_InvalidPageNumber"/>
    <xs:enumeration value="DataException_ConflictsEncounteredWhileUpdatingData"/>
    <xs:enumeration value="DataException_DeleteConflict"/>
    <xs:enumeration value="DataException_QueryParametersNotSupplied"/>
    <xs:enumeration value="DataException_GenericError"/>
    <xs:enumeration value="ExternalData_InvalidSource"/>
    <xs:enumeration value="ExternalData_ComponentMissing"/>
    <xs:enumeration value="DataConnectivity_FunctionalityDisabled"/>
    <xs:enumeration value="InvalidArgument"/>
    <xs:enumeration value="NullArgument"/>
    <xs:enumeration value="WebService_ObjectNotFound"/>
  </xs:restriction>
</xs:simpleType>

```

```

<xs:enumeration value="WebService_InvalidId"/>
<xs:enumeration value="WebService_ObjectSaveConflict"/>
<xs:enumeration value="WebService_ObjectModifiedExternally"/>
<xs:enumeration value="WebService_DeleteApplicationWithSubwebs"/>
<xs:enumeration value="WebService_SiteDoesNotExist"/>
<xs:enumeration value="WebService_InvalidApplicationEndPoint"/>
<xs:enumeration value="WebService_GetServerInformation_SiteDoesNotExist"/>
<xs:enumeration value="WebService_CreateApplication_SiteDoesNotExist"/>
<xs:enumeration value="WebService_MustBeAuthorToDesign"/>
<xs:enumeration
value="WebService_SetApplicationProperties_SetThemePermissionsFailure"/>
<xs:enumeration value="ObjectAlreadyExists"/>
<xs:enumeration value="TableException_CsdlDefinitionNotSupported"/>
<xs:enumeration value="TableException_DuplicateColumnName"/>
<xs:enumeration value="TableException_InvalidColumn"/>
<xs:enumeration value="TableException_InvalidFieldInExpression"/>
<xs:enumeration value="TableException_InvalidObjectInExpression"/>
<xs:enumeration value="QueryException_AmbiguousSourceNamesProvided"/>
<xs:enumeration value="QueryException_InvalidSourceNamesProvided"/>
<xs:enumeration value="QueryException_AmbiguousAliasProvided"/>
<xs:enumeration value="QueryException_InvalidObjectName"/>
<xs:enumeration value="QueryException_AmbiguousJoins"/>
<xs:enumeration value="QueryException_GenericAXLValidation"/>
<xs:enumeration value="QueryException_OutputNotInGroupsOrPartOfAggregate"/>
<xs:enumeration value="QueryException_ParameterTypeMismatch"/>
<xs:enumeration value="QueryException_OrderNotInOutputs"/>
<xs:enumeration value="OrderingException_InvalidSpecification"/>
<xs:enumeration value="OrderingException_InvalidColumnName"/>
<xs:enumeration value="MacroCompilationException_InvalidAxl"/>
<xs:enumeration value="MacroCompilationException_InvalidAction"/>
<xs:enumeration value="MacroCompilationException_InvalidEventName"/>
<xs:enumeration value="MacroCompilationException_RequiredArgumentMissing"/>
<xs:enumeration value="MacroCompilationException_ArgumentValueNotSpecified"/>
<xs:enumeration value="MacroCompilationException_InvalidActionArgument"/>
<xs:enumeration value="MacroCompilationException_InvalidParameter"/>
<xs:enumeration value="MacroCompilationException_MacroCallStackDepthExceeded"/>
<xs:enumeration value="MacroCompilationException_VariableNameCollision"/>
<xs:enumeration value="MacroCompilationException_EmptyConditionalBlock"/>
<xs:enumeration value="MacroCompilationException_EmptyLookupRecordBlock"/>
<xs:enumeration value="MacroCompilationException_UpdateOnDeletedRecord"/>
<xs:enumeration value="MacroCompilationException_UpdateRecordInNDM"/>
<xs:enumeration value="MacroCompilationException_InvalidAlias"/>
<xs:enumeration value="MacroCompilationException_InvalidIdentifier"/>
<xs:enumeration value="MacroCompilationException_InvalidVariableName"/>
<xs:enumeration value="UnsupportedDatabaseCollation"/>
<xs:enumeration value="NoDatabaseServersAvailableForCreate"/>
<xs:enumeration value="NoSQLAuthDatabaseServersAvailableForCreate"/>
<xs:enumeration value="SettingValidationFailed"/>
<xs:enumeration value="SettingApplicationNameNotFound"/>
<xs:enumeration value="SettingApplicationIdNotFound"/>
<xs:enumeration value="SettingApplicationProxyNameNotFound"/>
<xs:enumeration value="ProvisioningGenericFailure"/>
<xs:enumeration value="ProvisioningApplicationAlreadyExists"/>
<xs:enumeration value="ProvisioningSecureStoreIsRequiredAndMissing"/>
<xs:enumeration value="ProvisioningAccessServicesNotSupportedBySite"/>
<xs:enumeration value="FormException_GenericAXLValidation"/>
<xs:enumeration value="UnrecognizedVersion"/>
<xs:enumeration value="AnotherUpgradeInProgress"/>
<xs:enumeration value="ClientVersionNotCompatible"/>

```

```
<xs:enumeration value="ApplicationVersionNotCompatible"/>
<xs:enumeration value="TemplateNotCompatible"/>
<xs:enumeration value="TemplateSizeExceeded"/>
<xs:enumeration value="TemplateImageSizeExceeded"/>
<xs:enumeration value="TemplateImageTypeUnsupported"/>
<xs:enumeration value="AccessSqlException_GenericError"/>
<xs:enumeration value="AccessSqlException_CalculationCannotbeStored"/>
<xs:enumeration value="AccessSqlException_ObjectNotFound"/>
<xs:enumeration value="AccessSqlException_PermissionDenied"/>
<xs:enumeration value="AccessSqlException_DuplicateConstraintValue"/>
<xs:enumeration value="AccessSqlException_NoQueryParameters"/>
<xs:enumeration value="AccessSqlException_FieldNoValue"/>
<xs:enumeration value="AccessSqlException_FieldNoValueDesignTime"/>
<xs:enumeration value="AccessSqlException_InvalidFieldName"/>
<xs:enumeration value="AccessSqlException_InvalidObjectName"/>
<xs:enumeration value="AccessSqlException_ObjectAlreadyExists"/>
<xs:enumeration value="AccessSqlException_MissingExpressionInAggregateFunction"/>
<xs:enumeration value="AccessSqlException_DataTypeConversionMismatch"/>
<xs:enumeration value="AccessSqlException_InvalidLengthParameter"/>
<xs:enumeration value="AccessSqlException_ErrorMessage"/>
<xs:enumeration value="AccessSqlException_SqlError102"/>
<xs:enumeration value="AccessSqlException_SqlError107"/>
<xs:enumeration value="AccessSqlException_SqlError128"/>
<xs:enumeration value="AccessSqlException_SqlError130"/>
<xs:enumeration value="AccessSqlException_SqlError192"/>
<xs:enumeration value="AccessSqlException_SqlError201"/>
<xs:enumeration value="AccessSqlException_SqlError206"/>
<xs:enumeration value="AccessSqlException_SqlError209"/>
<xs:enumeration value="AccessSqlException_SqlError214"/>
<xs:enumeration value="AccessSqlException_SqlError217"/>
<xs:enumeration value="AccessSqlException_SqlError229"/>
<xs:enumeration value="AccessSqlException_SqlError241"/>
<xs:enumeration value="AccessSqlException_SqlError245"/>
<xs:enumeration value="AccessSqlException_SqlError256"/>
<xs:enumeration value="AccessSqlException_SqlError257"/>
<xs:enumeration value="AccessSqlException_SqlError260"/>
<xs:enumeration value="AccessSqlException_SqlError289"/>
<xs:enumeration value="AccessSqlException_SqlError402"/>
<xs:enumeration value="AccessSqlException_SqlError403"/>
<xs:enumeration value="AccessSqlException_SqlError421"/>
<xs:enumeration value="AccessSqlException_SqlError535"/>
<xs:enumeration value="AccessSqlException_SqlError542"/>
<xs:enumeration value="AccessSqlException_SqlError547_CheckConstraint_Runtime"/>
<xs:enumeration value="AccessSqlException_SqlError547_CheckConstraint_Design_Table"/>
<xs:enumeration value="AccessSqlException_SqlError547_CheckConstraint_Design_Column"/>
<xs:enumeration value="AccessSqlException_SqlError547_ForeignKey_RuntimeInsertUpdate"/>
<xs:enumeration value="AccessSqlException_SqlError547_ForeignKey_RuntimeDelete"/>
<xs:enumeration value="AccessSqlException_SqlError547_ForeignKey_Design"/>
<xs:enumeration value="AccessSqlException_SqlError1004"/>
<xs:enumeration value="AccessSqlException_SqlError1715"/>
<xs:enumeration value="AccessSqlException_SqlError1759"/>
<xs:enumeration value="AccessSqlException_SqlError1765"/>
<xs:enumeration value="AccessSqlException_SqlError1778"/>
<xs:enumeration value="AccessSqlException_SqlError1785"/>
<xs:enumeration value="AccessSqlException_SqlError1919"/>
<xs:enumeration value="AccessSqlException_SqlError2364"/>
<xs:enumeration value="AccessSqlException_SqlError2365"/>
<xs:enumeration value="AccessSqlException_SqlError2812"/>
<xs:enumeration value="AccessSqlException_SqlError3250"/>
```

```

    <xs:enumeration value="AccessSqlException_SqlError3623"/>
    <xs:enumeration value="AccessSqlException_SqlError3726"/>
    <xs:enumeration value="AccessSqlException_SqlError3906"/>
    <xs:enumeration value="AccessSqlException_SqlError4104"/>
    <xs:enumeration value="AccessSqlException_SqlError4121"/>
    <xs:enumeration value="AccessSqlException_SqlError4145"/>
    <xs:enumeration value="AccessSqlException_SqlError4405"/>
    <xs:enumeration value="AccessSqlException_SqlError4506"/>
    <xs:enumeration value="AccessSqlException_SqlError4511"/>
    <xs:enumeration value="AccessSqlException_SqlError4901"/>
    <xs:enumeration value="AccessSqlException_SqlError4922"/>
    <xs:enumeration value="AccessSqlException_SqlError4924"/>
    <xs:enumeration value="AccessSqlException_SqlError7704"/>
    <xs:enumeration value="AccessSqlException_SqlError8114"/>
    <xs:enumeration value="AccessSqlException_SqlError8115"/>
    <xs:enumeration value="AccessSqlException_SqlError8117"/>
    <xs:enumeration value="AccessSqlException_SqlError8134"/>
    <xs:enumeration value="AccessSqlException_SqlError8152"/>
    <xs:enumeration value="AccessSqlException_SqlError9810"/>
    <xs:enumeration value="AccessSqlException_SqlError17142"/>
    <xs:enumeration value="AccessSqlException_CustomError50001"/>
    <xs:enumeration value="AccessSqlException_CustomError50003"/>
    <xs:enumeration value="CannotSetProperty"/>
    <xs:enumeration value="CannotGetProperty"/>
  </xs:restriction>
</xs:simpleType>
<xs:element name="AccessServerMessageId" nillable="true" type="tns:AccessServerMessageId"/>
<xs:simpleType name="AccessServerMessageType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Alert"/>
    <xs:enumeration value="Status"/>
    <xs:enumeration value="Confirmation"/>
  </xs:restriction>
</xs:simpleType>
<xs:element name="AccessServerMessageType" nillable="true"
type="tns:AccessServerMessageType"/>
<xs:simpleType name="AccessServerMessageSeverity">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Error"/>
    <xs:enumeration value="Warning"/>
    <xs:enumeration value="Information"/>
    <xs:enumeration value="Progress"/>
    <xs:enumeration value="GettingStarted"/>
  </xs:restriction>
</xs:simpleType>
<xs:element name="AccessServerMessageSeverity" nillable="true"
type="tns:AccessServerMessageSeverity"/>
</xs:schema>

```

### 7.3

#### <http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/> Schema

```

<?xml version="1.0"?>
<xs:schema
xmlns:tns="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/AccessServerInternalService/" elementFormDefault="qualified"

```

```

targetNamespace="http://schemas.microsoft.com/office/Access/2010/11/Server/WebServices/Access
ServerInternalService/" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:import namespace="http://microsoft.com/wsdl/types/" />
  <xs:element name="SetApplicationProperties">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="1" name="commandParameter"
type="tnsl:CommandParameter"/>
        <xs:element minOccurs="0" maxOccurs="1" name="container" type="xs:string"/>
        <xs:element minOccurs="0" maxOccurs="1" name="parameters"
type="tnsl:SetApplicationPropertiesParameters"/>
        <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="userCookieId" type="q1:guid"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:complexType name="CommandParameter">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="WorkbookId" type="xs:string"/>
      <xs:element minOccurs="1" maxOccurs="1" name="StateId" type="xs:int"/>
      <xs:element minOccurs="0" maxOccurs="1" name="WorkOnBehalfRequest"
type="tnsl:WorkOnBehalf"/>
      <xs:element minOccurs="0" maxOccurs="1" name="ProtocolClientId" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="UserFriendlyDisplayName"
type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="Zone" type="xs:string"/>
      <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="RequestSiteId" type="q1:guid"/>
      <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="CorrelationId" type="q1:guid"/>
      <xs:element minOccurs="0" maxOccurs="1" name="RequestId" type="xs:string"/>
      <xs:element minOccurs="1" maxOccurs="1" name="CompleteResponseTimeout" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
  <xs:complexType name="WorkOnBehalf">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="UserName" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="UserSid" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="UserToken" type="xs:base64Binary"/>
      <xs:element minOccurs="1" maxOccurs="1" name="UserTokenTtl" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
  <xs:complexType name="SetApplicationPropertiesParameters">
    <xs:complexContent mixed="false">
      <xs:extension base="tnsl:ServiceParameters">
        <xs:sequence>
          <xs:element minOccurs="0" maxOccurs="unbounded" name="ApplicationProperty"
type="tnsl:ApplicationPropertyValue"/>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:complexType name="ServiceParameters"/>
  <xs:complexType name="ApplicationPropertyValue">
    <xs:attribute name="Name" type="xs:string"/>
    <xs:attribute name="Value" type="xs:string"/>
  </xs:complexType>
  <xs:element name="SetApplicationPropertiesResponse">
    <xs:complexType>
      <xs:sequence>

```

```

        <xs:element minOccurs="0" maxOccurs="1" name="SetApplicationPropertiesResult"
type="tns1:CommandResult"/>
        <xs:element minOccurs="0" maxOccurs="1" name="result"
type="tns1:SetApplicationPropertiesResult"/>
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:complexType name="CommandResult">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="1" name="TransientEditSessionToken"
type="xs:string"/>
        <xs:element minOccurs="1" maxOccurs="1" name="StateId" type="xs:int"/>
        <xs:element minOccurs="0" maxOccurs="1" name="SpreadsheetData" type="xs:string"/>
        <xs:element minOccurs="0" maxOccurs="1" name="HealthInformation"
type="tns1:ServerHealthInformation"/>
        <xs:element minOccurs="1" maxOccurs="1" name="EditSessionIsDirty" type="xs:boolean"/>
        <xs:element minOccurs="1" maxOccurs="1" name="EditSessionHasMultipleCollaborationUsers"
type="xs:boolean"/>
        <xs:element minOccurs="0" maxOccurs="1" name="RequestId" type="xs:string"/>
    </xs:sequence>
</xs:complexType>
<xs:complexType name="ServerHealthInformation">
    <xs:sequence>
        <xs:element minOccurs="1" maxOccurs="1" name="StateFlags"
type="tns1:ServerStateFlags"/>
        <xs:element minOccurs="1" maxOccurs="1" name="HealthScore" type="xs:float"/>
    </xs:sequence>
</xs:complexType>
<xs:simpleType name="ServerStateFlags">
    <xs:list>
        <xs:simpleType>
            <xs:restriction base="xs:string">
                <xs:enumeration value="ShuttingDown"/>
            </xs:restriction>
        </xs:simpleType>
    </xs:list>
</xs:simpleType>
<xs:complexType name="SetApplicationPropertiesResult">
    <xs:complexContent mixed="false">
        <xs:extension base="tns1:ServiceResult">
            <xs:sequence>
                <xs:element minOccurs="1" maxOccurs="1" name="Error" nillable="true"
type="tns1:ServiceError"/>
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:complexType name="ServiceResult">
    <xs:sequence>
        <xs:element minOccurs="1" maxOccurs="1" name="Warning" nillable="true"
type="tns1:ServiceWarning"/>
    </xs:sequence>
</xs:complexType>
<xs:complexType name="ServiceWarning">
    <xs:attribute name="Code" type="xs:string"/>
    <xs:attribute name="Message" type="xs:string"/>
</xs:complexType>
<xs:complexType name="ServiceError">
    <xs:attribute name="Code" type="xs:string"/>
    <xs:attribute name="Message" type="xs:string"/>

```



```

</xs:complexType>
<xs:element name="GetApplicationProperties">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="commandParameter"
type="tns1:CommandParameter"/>
      <xs:element minOccurs="0" maxOccurs="1" name="container" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="parameters"
type="tns1:GetApplicationPropertiesParameters"/>
      <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="userCookieId" type="q1:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:complexType name="GetApplicationPropertiesParameters">
  <xs:complexContent mixed="false">
    <xs:extension base="tns1:ServiceParameters">
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="ApplicationProperty"
type="tns1:ApplicationPropertyName"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:complexType name="ApplicationPropertyName">
  <xs:attribute name="Name" type="xs:string"/>
</xs:complexType>
<xs:element name="GetApplicationPropertiesResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="GetApplicationPropertiesResult"
type="tns1:CommandResult"/>
      <xs:element minOccurs="0" maxOccurs="1" name="result"
type="tns1:GetApplicationPropertiesResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:complexType name="GetApplicationPropertiesResult">
  <xs:complexContent mixed="false">
    <xs:extension base="tns1:ServiceResult">
      <xs:sequence>
        <xs:element minOccurs="1" maxOccurs="1" name="Error" nillable="true"
type="tns1:ServiceError"/>
        <xs:element minOccurs="0" maxOccurs="1" name="ApplicationProperties"
type="tns1:ArrayOfApplicationPropertyValue"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:complexType name="ArrayOfApplicationPropertyValue">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="ApplicationPropertyValue"
nillable="true" type="tns1:ApplicationPropertyValue"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="GetFirewallRules">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="commandParameter"
type="tns1:CommandParameter"/>

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        <xs:element minOccurs="0" maxOccurs="1" name="container" type="xs:string"/>
        <xs:element minOccurs="0" maxOccurs="1" name="parameters"
type="tns1:GetFirewallRulesParameters"/>
        <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="userCookieId" type="q1:guid"/>
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:complexType name="GetFirewallRulesParameters">
    <xs:complexContent mixed="false">
        <xs:extension base="tns1:ServiceParameters">
            <xs:attribute name="ProtocolVersion" type="xs:string"/>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:element name="GetFirewallRulesResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="1" name="GetFirewallRulesResult"
type="tns1:CommandResult"/>
            <xs:element minOccurs="0" maxOccurs="1" name="result"
type="tns1:GetFirewallRulesResult"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:complexType name="GetFirewallRulesResult">
    <xs:complexContent mixed="false">
        <xs:extension base="tns1:ServiceResult">
            <xs:sequence>
                <xs:element minOccurs="0" maxOccurs="1" name="FirewallRules"
type="tns1:ArrayOfFirewallRule"/>
                <xs:element minOccurs="1" maxOccurs="1" name="Error" nillable="true"
type="tns1:ServiceError"/>
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:complexType name="ArrayOfFirewallRule">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="FirewallRule" nillable="true"
type="tns1:FirewallRule"/>
    </xs:sequence>
</xs:complexType>
<xs:complexType name="FirewallRule">
    <xs:attribute name="StartIPAddress" type="xs:string"/>
    <xs:attribute name="EndIPAddress" type="xs:string"/>
</xs:complexType>
<xs:element name="AddFirewallRule">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="1" name="commandParameter"
type="tns1:CommandParameter"/>
            <xs:element minOccurs="0" maxOccurs="1" name="container" type="xs:string"/>
            <xs:element minOccurs="0" maxOccurs="1" name="parameters"
type="tns1:AddFirewallRuleParameters"/>
            <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="userCookieId" type="q1:guid"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>

```

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<xs:complexType name="AddFirewallRuleParameters">
  <xs:complexContent mixed="false">
    <xs:extension base="tns1:ServiceParameters">
      <xs:attribute name="ProtocolVersion" type="xs:string"/>
      <xs:attribute name="StartIPAddress" type="xs:string"/>
      <xs:attribute name="EndIPAddress" type="xs:string"/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:element name="AddFirewallRuleResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="AddFirewallRuleResult"
type="tns1:CommandResult"/>
      <xs:element minOccurs="0" maxOccurs="1" name="result"
type="tns1:AddFirewallRuleResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:complexType name="AddFirewallRuleResult">
  <xs:complexContent mixed="false">
    <xs:extension base="tns1:ServiceResult">
      <xs:sequence>
        <xs:element minOccurs="1" maxOccurs="1" name="Error" nillable="true"
type="tns1:ServiceError"/>
      </xs:sequence>
      <xs:attribute name="RuleName" type="xs:string"/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:element name="DeleteFirewallRules">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="commandParameter"
type="tns1:CommandParameter"/>
      <xs:element minOccurs="0" maxOccurs="1" name="container" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="parameters"
type="tns1>DeleteFirewallRulesParameters"/>
      <xs:element xmlns:ql="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="userCookieId" type="ql:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:complexType name="DeleteFirewallRulesParameters">
  <xs:complexContent mixed="false">
    <xs:extension base="tns1:ServiceParameters">
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="1" name="SpecifiedFirewallRules"
type="tns1:FirewallRulesList"/>
      </xs:sequence>
      <xs:attribute name="ProtocolVersion" type="xs:string"/>
      <xs:attribute name="DeleteOption" type="tns1>DeleteFirewallRulesOption"
use="required"/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:complexType name="FirewallRulesList">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="FirewallRule"
type="tns1:FirewallRule"/>
  </xs:sequence>
</xs:complexType>

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    </xs:sequence>
  </xs:complexType>
  <xs:simpleType name="DeleteFirewallRulesOption">
    <xs:restriction base="xs:string">
      <xs:enumeration value="Specified"/>
      <xs:enumeration value="All"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:element name="DeleteFirewallRulesResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="1" name="DeleteFirewallRulesResult"
type="tns1:CommandResult"/>
        <xs:element minOccurs="0" maxOccurs="1" name="result"
type="tns1:DeleteFirewallRulesResult"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:complexType name="DeleteFirewallRulesResult">
    <xs:complexContent mixed="false">
      <xs:extension base="tns1:ServiceResult">
        <xs:sequence>
          <xs:element minOccurs="1" maxOccurs="1" name="Error" nillable="true"
type="tns1:ServiceError"/>
        </xs:sequence>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="CreatePackage">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="1" name="commandParameter"
type="tns1:CommandParameter"/>
        <xs:element minOccurs="0" maxOccurs="1" name="container" type="xs:string"/>
        <xs:element minOccurs="0" maxOccurs="1" name="parameters"
type="tns1:CreatePackageParameters"/>
        <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="userId" type="q1:guid"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:complexType name="CreatePackageParameters">
    <xs:complexContent mixed="false">
      <xs:extension base="tns1:ServiceParameters">
        <xs:attribute name="ProtocolVersion" type="xs:string"/>
        <xs:attribute name="Title" type="xs:string"/>
        <xs:attribute name="Description" type="xs:string"/>
        <xs:attribute name="Data" type="xs:boolean" use="required"/>
        <xs:attribute name="Preview" type="xs:string"/>
        <xs:attribute name="PreviewType" type="xs:string"/>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="CreatePackageResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="1" name="CreatePackageResult"
type="tns1:CommandResult"/>
        <xs:element minOccurs="0" maxOccurs="1" name="result"
type="tns1:CreatePackageResult"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>

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        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:complexType name="CreatePackageResult">
    <xs:complexContent mixed="false">
        <xs:extension base="tns1:ServiceResult">
            <xs:sequence>
                <xs:element minOccurs="0" maxOccurs="1" name="PackageId" type="xs:string"/>
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:element name="GetPackage">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="1" name="commandParameter"
type="tns1:CommandParameter"/>
            <xs:element minOccurs="0" maxOccurs="1" name="container" type="xs:string"/>
            <xs:element minOccurs="0" maxOccurs="1" name="packageParams"
type="tns1:GetPackageParameters"/>
            <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="userCookieId" type="q1:guid"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:complexType name="GetPackageParameters">
    <xs:complexContent mixed="false">
        <xs:extension base="tns1:ServiceParameters">
            <xs:attribute name="ProtocolVersion" type="xs:string"/>
            <xs:attribute name="PackageId" type="xs:string"/>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:element name="GetPackageResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="1" name="GetPackageResult"
type="tns1:CommandResult"/>
            <xs:element minOccurs="0" maxOccurs="1" name="result" type="tns1:GetPackageResult"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:complexType name="GetPackageResult">
    <xs:complexContent mixed="false">
        <xs:extension base="tns1:ServiceResult">
            <xs:sequence>
                <xs:element minOccurs="1" maxOccurs="1" name="Status" type="tns1:PackageStatus"/>
                <xs:element minOccurs="0" maxOccurs="1" name="Data" type="xs:string"/>
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:simpleType name="PackageStatus">
    <xs:restriction base="xs:string">
        <xs:enumeration value="Creating"/>
        <xs:enumeration value="Created"/>
    </xs:restriction>
</xs:simpleType>
<xs:element name="GetAvailableServer">

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```

    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="1" name="commandParameter"
type="tnsl:CommandParameter"/>
        <xs:element minOccurs="1" maxOccurs="1" name="authMode"
type="tnsl:SqlAuthenticationMode"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:simpleType name="SqlAuthenticationMode">
    <xs:restriction base="xs:string">
      <xs:enumeration value="SqlServerAuth"/>
      <xs:enumeration value="SqlServerAuthOrWindowsAuth"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:element name="GetAvailableServerResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="1" name="GetAvailableServerResult"
type="tnsl:CommandResult"/>
        <xs:element minOccurs="0" maxOccurs="1" name="serverContext"
type="tnsl:ServerContext"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:complexType name="ServerContext">
    <xs:sequence>
      <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="ServerReferenceId" type="q1:guid"/>
      <xs:element minOccurs="0" maxOccurs="1" name="MasterCredential"
type="tnsl:NetworkCredential"/>
    </xs:sequence>
  </xs:complexType>
  <xs:complexType name="NetworkCredential">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="UserName" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="Password" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="SecurePassword"
type="tnsl:SecureString"/>
      <xs:element minOccurs="0" maxOccurs="1" name="Domain" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
  <xs:complexType name="SecureString"/>
  <xs:element name="GetServerName">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="1" name="commandParameter"
type="tnsl:CommandParameter"/>
        <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="serverReferenceId" type="q1:guid"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetServerNameResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="1" name="GetServerNameResult"
type="tnsl:CommandResult"/>
        <xs:element minOccurs="0" maxOccurs="1" name="serverName" type="xs:string"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>

```

```

    </xs:complexType>
  </xs:element>
  <xs:element name="ProvisionDatabase">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="1" name="commandParameter"
type="tnsl:CommandParameter"/>
        <xs:element minOccurs="0" maxOccurs="1" name="databaseContext"
type="tnsl:DatabaseContext"/>
        <xs:element minOccurs="0" maxOccurs="1" name="encodedDac" type="xs:string"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:complexType name="DatabaseContext">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="Server" type="tnsl:ServerContext"/>
      <xs:element minOccurs="0" maxOccurs="1" name="DatabaseName" type="xs:string"/>
      <xs:element minOccurs="1" maxOccurs="1" name="PackageSource"
type="tnsl:PackageSource"/>
      <xs:element minOccurs="0" maxOccurs="1" name="PackageType" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
  <xs:simpleType name="PackageSource">
    <xs:restriction base="xs:string">
      <xs:enumeration value="InvalidSource"/>
      <xs:enumeration value="StoreFront"/>
      <xs:enumeration value="CorporateCatalog"/>
      <xs:enumeration value="DeveloperSite"/>
      <xs:enumeration value="ObjectModel"/>
      <xs:enumeration value="RemoteObjectModel"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:element name="ProvisionDatabaseResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="1" name="ProvisionDatabaseResult"
type="tnsl:CommandResult"/>
        <xs:element minOccurs="0" maxOccurs="1" name="provisionedDatabaseContext"
type="tnsl:ProvisionedDatabaseContext"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:complexType name="ProvisionedDatabaseContext">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="DatabaseContext"
type="tnsl:DatabaseContext"/>
      <xs:element minOccurs="0" maxOccurs="1" name="DboCredential"
type="tnsl:NetworkCredential"/>
      <xs:element minOccurs="0" maxOccurs="1" name="AccessAccount" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="Password" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="UnprovisionDatabase">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="1" name="commandParameter"
type="tnsl:CommandParameter"/>
        <xs:element minOccurs="0" maxOccurs="1" name="databaseContext"
type="tnsl:DatabaseContext"/>
        <xs:element minOccurs="1" maxOccurs="1" name="dropLogin" type="xs:boolean"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>

```

```

        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="UnprovisionDatabaseResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="1" name="UnprovisionDatabaseResult"
type="tns1:CommandResult"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="ExecuteDacIncrementalUpgrade">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="1" name="commandParameter"
type="tns1:CommandParameter"/>
            <xs:element minOccurs="0" maxOccurs="1" name="databaseContext"
type="tns1:DatabaseContext"/>
            <xs:element minOccurs="0" maxOccurs="1" name="encodedDac" type="xs:string"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="ExecuteDacIncrementalUpgradeResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="1" name="ExecuteDacIncrementalUpgradeResult"
type="tns1:CommandResult"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="CopyDatabase">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="1" name="commandParameter"
type="tns1:CommandParameter"/>
            <xs:element minOccurs="0" maxOccurs="1" name="originalDatabaseContext"
type="tns1:DatabaseContext"/>
            <xs:element minOccurs="0" maxOccurs="1" name="copyDatabaseName" type="xs:string"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="CopyDatabaseResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="1" name="CopyDatabaseResult"
type="tns1:CommandResult"/>
            <xs:element minOccurs="0" maxOccurs="1" name="provisionedDatabaseContext"
type="tns1:ProvisionedDatabaseContext"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="CheckCopyStatus">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="1" name="commandParameter"
type="tns1:CommandParameter"/>
            <xs:element minOccurs="0" maxOccurs="1" name="sourceDatabase"
type="tns1:DatabaseContext"/>
            <xs:element minOccurs="0" maxOccurs="1" name="destinationDatabase"
type="tns1:DatabaseContext"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>

```



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        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="CheckCopyStatusResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="1" name="CheckCopyStatusResult"
type="tns1:CommandResult"/>
            <xs:element minOccurs="1" maxOccurs="1" name="copyStatus" type="xs:unsignedByte"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="RenameDatabase">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="1" name="commandParameter"
type="tns1:CommandParameter"/>
            <xs:element minOccurs="0" maxOccurs="1" name="databaseContext"
type="tns1:DatabaseContext"/>
            <xs:element minOccurs="0" maxOccurs="1" name="newDatabaseName" type="xs:string"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="RenameDatabaseResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="1" name="RenameDatabaseResult"
type="tns1:CommandResult"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="DatabaseExists">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="1" name="commandParameter"
type="tns1:CommandParameter"/>
            <xs:element minOccurs="0" maxOccurs="1" name="databaseContext"
type="tns1:DatabaseContext"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="DatabaseExistsResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="1" name="DatabaseExistsResult"
type="tns1:CommandResult"/>
            <xs:element minOccurs="1" maxOccurs="1" name="exists" type="xs:boolean"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="SetReadWrite">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="1" name="commandParameter"
type="tns1:CommandParameter"/>
            <xs:element minOccurs="0" maxOccurs="1" name="databaseContext"
type="tns1:DatabaseContext"/>
            <xs:element minOccurs="1" maxOccurs="1" name="readWrite"
type="tns1:DatabaseReadWriteState"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>

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    </xs:complexType>
  </xs:element>
  <xs:simpleType name="DatabaseReadWriteState">
    <xs:restriction base="xs:string">
      <xs:enumeration value="Read"/>
      <xs:enumeration value="ReadWrite"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:element name="SetReadWriteResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="1" name="SetReadWriteResult"
type="tns1:CommandResult"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetHealthScore">
    <xs:complexType/>
  </xs:element>
  <xs:element name="GetHealthScoreResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="1" name="GetHealthScoreResult"
type="tns1:CommandResult"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="OpenSession">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="1" name="parameter"
type="tns1:CommandParameter"/>
        <xs:element minOccurs="0" maxOccurs="1" name="cultureParameter"
type="tns1:CultureCommandParameter"/>
        <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="userCookieId" type="q1:guid"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:complexType name="CultureCommandParameter">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="UICultureName" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="DataCultureName" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="SharePointDataCultureName"
type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="TimeZoneSerialization" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
  <xs:element name="OpenSessionResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="1" name="OpenSessionResult"
type="tns1:CommandResult"/>
        <xs:element minOccurs="0" maxOccurs="1" name="sessionId" type="xs:string"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="CloseSession">
    <xs:complexType>

```

```

        <xs:sequence>
          <xs:element minOccurs="0" maxOccurs="1" name="parameter"
type="tnsl:CommandParameter"/>
          <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="userCookieId" type="q1:guid"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="CloseSessionResponse">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" maxOccurs="1" name="CloseSessionResult"
type="tnsl:CommandResult"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="KeepAlive">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" maxOccurs="1" name="parameter"
type="tnsl:CommandParameter"/>
          <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="userCookieId" type="q1:guid"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="KeepAliveResponse">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" maxOccurs="1" name="KeepAliveResult"
type="tnsl:CommandResult"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:element name="GetObjectSchema">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" maxOccurs="1" name="parameter"
type="tnsl:CommandParameter"/>
          <xs:element minOccurs="0" maxOccurs="1" name="requestContext"
type="tnsl:RequestContext"/>
          <xs:element minOccurs="0" maxOccurs="1" name="source" type="xs:string"/>
          <xs:element minOccurs="0" maxOccurs="1" name="moniker" type="xs:string"/>
          <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="userCookieId" type="q1:guid"/>
        </xs:sequence>
      </xs:complexType>
    </xs:element>
    <xs:complexType name="RequestContext">
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="1" name="Url" type="xs:string"/>
      </xs:sequence>
    </xs:complexType>
    <xs:element name="GetObjectSchemaResponse">
      <xs:complexType>
        <xs:sequence>
          <xs:element minOccurs="0" maxOccurs="1" name="GetObjectSchemaResult"
type="tnsl:CommandResult"/>
          <xs:element minOccurs="0" maxOccurs="1" name="fieldSchemas"
type="tnsl:ArrayOfFieldSchema"/>

```

```

        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:complexType name="ArrayOfFieldSchema">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="FieldSchema" nillable="true"
type="tnsl:FieldSchema"/>
    </xs:sequence>
</xs:complexType>
<xs:complexType name="FieldSchema">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="1" name="ColumnName" type="xs:string"/>
        <xs:element minOccurs="0" maxOccurs="1" name="DataType" type="xs:string"/>
        <xs:element minOccurs="0" maxOccurs="1" name="DefaultValue" type="xs:string"/>
        <xs:element minOccurs="1" maxOccurs="1" name="IsKey" type="xs:boolean"/>
        <xs:element minOccurs="1" maxOccurs="1" name="Required" type="xs:boolean"/>
        <xs:element minOccurs="1" maxOccurs="1" name="ReadOnly" type="xs:boolean"/>
        <xs:element minOccurs="1" maxOccurs="1" name="MaxLength" type="xs:int"/>
        <xs:element minOccurs="0" maxOccurs="1" name="DefaultExpression"
type="tnsl:Expression"/>
        <xs:element minOccurs="0" maxOccurs="1" name="ValidationScript" type="xs:string"/>
        <xs:element minOccurs="0" maxOccurs="1" name="ValidationMessage"
type="tnsl:ClientMessage"/>
        <xs:element minOccurs="1" maxOccurs="1" name="KeyIndex" type="xs:int"/>
        <xs:element minOccurs="0" maxOccurs="1" name="SourceObject" type="xs:string"/>
        <xs:element minOccurs="0" maxOccurs="1" name="DependentFields" type="tnsl:ArrayOfInt"/>
        <xs:element minOccurs="1" maxOccurs="1" name="AllowMultipleValues" type="xs:boolean"/>
        <xs:element minOccurs="0" maxOccurs="1" name="FormatString" type="xs:string"/>
        <xs:element minOccurs="0" maxOccurs="1" name="CurrencySymbol" type="xs:string"/>
        <xs:element minOccurs="1" maxOccurs="1" name="DecimalPlaces" type="xs:int"/>
        <xs:element minOccurs="0" maxOccurs="1" name="TextType" type="xs:string"/>
        <xs:element minOccurs="1" maxOccurs="1" name="IsTableQueryLookup" type="xs:boolean"/>
        <xs:element minOccurs="0" maxOccurs="1" name="LookupSource" type="xs:string"/>
        <xs:element minOccurs="0" maxOccurs="1" name="LookupBoundField" type="xs:string"/>
        <xs:element minOccurs="0" maxOccurs="1" name="LookupDisplayField" type="xs:string"/>
    </xs:sequence>
</xs:complexType>
<xs:complexType name="Expression">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="1" name="ExpressionScript" type="xs:string"/>
        <xs:element minOccurs="0" maxOccurs="1" name="ReferencesFunction" type="xs:string"/>
        <xs:element minOccurs="0" maxOccurs="1" name="Properties" type="tnsl:ArrayOfAnyType"/>
        <xs:element minOccurs="1" maxOccurs="1" name="ServerExpression" type="xs:boolean"/>
        <xs:element minOccurs="0" maxOccurs="1" name="OriginalExpression" type="xs:string"/>
    </xs:sequence>
</xs:complexType>
<xs:complexType name="ArrayOfAnyType">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="anyType" nillable="true"/>
    </xs:sequence>
</xs:complexType>
<xs:complexType name="ClientMessage">
    <xs:sequence>
        <xs:element minOccurs="1" maxOccurs="1" name="MessageID" type="tnsl:ClientMessageID"/>
        <xs:element minOccurs="0" maxOccurs="1" name="Context" type="tnsl:ArrayOfAnyType"/>
    </xs:sequence>
</xs:complexType>
<xs:simpleType name="ClientMessageID">
    <xs:restriction base="xs:string">

```

```
<xs:enumeration value="None" />
<xs:enumeration value="PassthroughMessage" />
<xs:enumeration value="WebServiceUnavailableMessage" />
<xs:enumeration value="WebServiceCanceledMessage" />
<xs:enumeration value="DataMacroStopWaiting" />
<xs:enumeration value="GenericError" />
<xs:enumeration value="NotifyRecordUpdated" />
<xs:enumeration value="NotifyRecordsDeleted" />
<xs:enumeration value="NotifyCannotDelete" />
<xs:enumeration value="NotifyCannotSave" />
<xs:enumeration value="NotifyCannotSaveDescription" />
<xs:enumeration value="SubFormNestingLimitExceededError" />
<xs:enumeration value="DivisionByZero" />
<xs:enumeration value="TypeMismatch" />
<xs:enumeration value="NoCurrentRecord" />
<xs:enumeration value="RecordNotUpdatable" />
<xs:enumeration value="WhereConditionTooLong" />
<xs:enumeration value="InvalidArgument" />
<xs:enumeration value="InvalidContainerControlName" />
<xs:enumeration value="ActionArgumentNotFound" />
<xs:enumeration value="FormCannotClose" />
<xs:enumeration value="AttachmentMustSave" />
<xs:enumeration value="InvalidExpression" />
<xs:enumeration value="AttachmentUploadSucceed" />
<xs:enumeration value="AttachmentDeleted" />
<xs:enumeration value="FormOrReportNotBound" />
<xs:enumeration value="InvalidPropertyOrMethod" />
<xs:enumeration value="InvalidUrl" />
<xs:enumeration value="UserInterfaceMacroLoadFailure" />
<xs:enumeration value="CannotFindMacroObject" />
<xs:enumeration value="CannotGoToSpecifiedRecord" />
<xs:enumeration value="InvalidConditionExpression" />
<xs:enumeration value="CannotGoToSubformOrTabPage" />
<xs:enumeration value="InvalidControl" />
<xs:enumeration value="CannotFocusOnControl" />
<xs:enumeration value="InvalidControlValue" />
<xs:enumeration value="NoControlName" />
<xs:enumeration value="CannotFindErrorHandlerMacro" />
<xs:enumeration value="InvalidSetPropertyControl" />
<xs:enumeration value="LocalVarNameNotSpecified" />
<xs:enumeration value="LocalVarExpressionNotSpecified" />
<xs:enumeration value="LocalVariableNameInvalid" />
<xs:enumeration value="TempVarNameNotSpecified" />
<xs:enumeration value="TempVariableNameInvalid" />
<xs:enumeration value="CommandNotAvailable" />
<xs:enumeration value="ExpressionErrorCannotSet" />
<xs:enumeration value="TooManyRunMacros" />
<xs:enumeration value="InvalidBrowseToPathArgument" />
<xs:enumeration value="InvalidObjectReference" />
<xs:enumeration value="FormNotFoundRep" />
<xs:enumeration value="ControlDoesNotSupportRequery" />
<xs:enumeration value="ReadOnlyNote" />
<xs:enumeration value="TooMuchParameterData" />
<xs:enumeration value="OperationNotSupportedOnSubReports" />
<xs:enumeration value="ExpressionErrorInfo" />
<xs:enumeration value="InvalidPropertyValue" />
<xs:enumeration value="AutocompleteWaitingForValidationMessage" />
<xs:enumeration value="AutocompleteInvalidDataMessage" />
<xs:enumeration value="TooManyTermsInFilter" />
```

```

    <xs:enumeration value="InvalidValueForFieldMessage"/>
    <xs:enumeration value="InvalidValueForControlMessage"/>
    <xs:enumeration value="ImageUploadFailureNotificationMessage"/>
    <xs:enumeration value="NoResultsFromFilter"/>
    <xs:enumeration value="ErrorRetrievingDataForComboBoxMessage"/>
    <xs:enumeration value="ExpressionImplicitConversionInvalid"/>
  </xs:restriction>
</xs:simpleType>
<xs:complexType name="ArrayOfInt">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="int" type="xs:int"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="OpenResultSet">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="parameter"
type="tns1:CommandParameter"/>
      <xs:element minOccurs="0" maxOccurs="1" name="fields" type="tns1:FieldList"/>
      <xs:element minOccurs="0" maxOccurs="1" name="restriction" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="queryParameters"
type="tns1:ArrayOfKeyValuePair"/>
      <xs:element minOccurs="0" maxOccurs="1" name="sortExpression" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="filter" type="tns1:FilterInfo"/>
      <xs:element minOccurs="0" maxOccurs="1" name="moniker" type="xs:string"/>
      <xs:element minOccurs="1" maxOccurs="1" name="startRowIndex" type="xs:int"/>
      <xs:element minOccurs="1" maxOccurs="1" name="maximumRows" type="xs:int"/>
      <xs:element minOccurs="1" maxOccurs="1" name="autoResync" type="xs:boolean"/>
      <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="userCookieId" type="q1:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:complexType name="FieldList">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="Field" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="ArrayOfKeyValuePair">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="KeyValuePair"
type="tns1:KeyValuePair"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="KeyValuePair">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="1" name="Key"/>
    <xs:element minOccurs="1" maxOccurs="1" name="Value" nillable="true"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="FilterInfo">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="1" name="Expression" type="xs:string"/>
    <xs:element minOccurs="0" maxOccurs="1" name="Text" type="xs:string"/>
    <xs:element minOccurs="0" maxOccurs="1" name="Fields" type="tns1:FieldList"/>
    <xs:element minOccurs="0" maxOccurs="1" name="Culture" type="xs:string"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="OpenResultSetResponse">

```

```

    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="1" name="OpenResultSetResult"
type="tns1:CommandResult"/>
        <xs:element minOccurs="0" maxOccurs="1" name="tableXml" type="xs:string"/>
        <xs:element minOccurs="1" maxOccurs="1" name="totalRowCount" type="xs:int"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="GetData">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="1" name="parameter"
type="tns1:CommandParameter"/>
        <xs:element minOccurs="0" maxOccurs="1" name="moniker" type="xs:string"/>
        <xs:element minOccurs="1" maxOccurs="1" name="startRowIndex" type="xs:int"/>
        <xs:element minOccurs="1" maxOccurs="1" name="maximumRows" type="xs:int"/>
        <xs:element minOccurs="1" maxOccurs="1" name="cacheCommands"
type="tns1:CacheCommands"/>
        <xs:element minOccurs="0" maxOccurs="1" name="sortExpression" type="xs:string"/>
        <xs:element minOccurs="0" maxOccurs="1" name="filter" type="tns1:FilterInfo"/>
        <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="userId" type="q1:guid"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:simpleType name="CacheCommands">
    <xs:list>
      <xs:simpleType>
        <xs:restriction base="xs:string">
          <xs:enumeration value="RefreshData"/>
          <xs:enumeration value="ApplyFilter"/>
          <xs:enumeration value="ClearFilter"/>
          <xs:enumeration value="ApplySort"/>
          <xs:enumeration value="RetrieveImage"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:list>
  </xs:simpleType>
  <xs:element name="GetDataResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="1" name="GetDataResult"
type="tns1:CommandResult"/>
        <xs:element minOccurs="0" maxOccurs="1" name="tableXml" type="xs:string"/>
        <xs:element minOccurs="0" maxOccurs="1" name="aggregateValues"
type="tns1:ArrayOfAnyType"/>
        <xs:element minOccurs="1" maxOccurs="1" name="totalRowCount" type="xs:int"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="InsertData">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="1" name="parameter"
type="tns1:CommandParameter"/>
        <xs:element minOccurs="0" maxOccurs="1" name="moniker" type="xs:string"/>
        <xs:element minOccurs="0" maxOccurs="1" name="values"
type="tns1:ArrayOfKeyValuePair"/>

```

```

        <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="userCookieId" type="q1:guid"/>
    </xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="InsertDataResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="1" name="InsertDataResult"
type="tnsl:CommandResult"/>
            <xs:element minOccurs="0" maxOccurs="1" name="insertedRowsXml" type="xs:string"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="UpdateData">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="1" name="parameter"
type="tnsl:CommandParameter"/>
            <xs:element minOccurs="0" maxOccurs="1" name="moniker" type="xs:string"/>
            <xs:element minOccurs="0" maxOccurs="1" name="keys" type="tnsl:ArrayOfKeyValuePair"/>
            <xs:element minOccurs="0" maxOccurs="1" name="values"
type="tnsl:ArrayOfKeyValuePair"/>
            <xs:element minOccurs="0" maxOccurs="1" name="oldValues"
type="tnsl:ArrayOfKeyValuePair"/>
            <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="userCookieId" type="q1:guid"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="UpdateDataResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="1" name="UpdateDataResult"
type="tnsl:CommandResult"/>
            <xs:element minOccurs="0" maxOccurs="1" name="updatedTableXml" type="xs:string"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="FixupRow">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="1" name="parameter"
type="tnsl:CommandParameter"/>
            <xs:element minOccurs="0" maxOccurs="1" name="moniker" type="xs:string"/>
            <xs:element minOccurs="0" maxOccurs="1" name="keys" type="tnsl:ArrayOfKeyValuePair"/>
            <xs:element minOccurs="0" maxOccurs="1" name="values"
type="tnsl:ArrayOfKeyValuePair"/>
            <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="userCookieId" type="q1:guid"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:element name="FixupRowResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="1" name="FixupRowResult"
type="tnsl:CommandResult"/>
            <xs:element minOccurs="0" maxOccurs="1" name="tableXml" type="xs:string"/>
            <xs:element minOccurs="1" maxOccurs="1" name="totalRowCount" type="xs:int"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>

```



```

    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="DeleteData">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="parameter"
type="tnsl:CommandParameter"/>
      <xs:element minOccurs="0" maxOccurs="1" name="moniker" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="keys" type="tnsl:ArrayOfKeyValuePair"/>
      <xs:element minOccurs="0" maxOccurs="1" name="oldValues"
type="tnsl:ArrayOfKeyValuePair"/>
      <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="userCookieId" type="q1:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="DeleteDataResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="DeleteDataResult"
type="tnsl:CommandResult"/>
      <xs:element minOccurs="1" maxOccurs="1" name="recordsDeleted" type="xs:int"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetDistinctValues">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="parameter"
type="tnsl:CommandParameter"/>
      <xs:element minOccurs="0" maxOccurs="1" name="moniker" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="columnName" type="xs:string"/>
      <xs:element minOccurs="1" maxOccurs="1" name="maximumRows" type="xs:int"/>
      <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="userCookieId" type="q1:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetDistinctValuesResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="GetDistinctValuesResult"
type="tnsl:CommandResult"/>
      <xs:element minOccurs="0" maxOccurs="1" name="tableXml" type="xs:string"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="CreateApplication">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="commandParameter"
type="tnsl:CommandParameter"/>
      <xs:element minOccurs="0" maxOccurs="1" name="container" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="parameters"
type="tnsl:CreateApplicationParameters"/>
      <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="userCookieId" type="q1:guid"/>
    </xs:sequence>
  </xs:complexType>

```

```

</xs:element>
<xs:complexType name="CreateApplicationParameters">
  <xs:complexContent mixed="false">
    <xs:extension base="tns1:ServiceParameters">
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="1" name="Collation" type="tns1:Collation"/>
        <xs:element minOccurs="0" maxOccurs="1" name="ProtocolVersionOptions"
type="tns1:ProtocolVersionList"/>
      </xs:sequence>
      <xs:attribute name="Name" type="xs:string"/>
      <xs:attribute name="Template" type="xs:string"/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:complexType name="Collation">
  <xs:attribute name="Culture" type="xs:string"/>
  <xs:attribute name="CaseSensitive" type="xs:boolean" use="required"/>
  <xs:attribute name="AccentSensitive" type="xs:boolean" use="required"/>
  <xs:attribute name="KanaSensitive" type="xs:boolean" use="required"/>
  <xs:attribute name="WidthSensitive" type="xs:boolean" use="required"/>
  <xs:attribute name="UseSupplementaryCharacters" type="xs:boolean" use="required"/>
</xs:complexType>
<xs:complexType name="ProtocolVersionList">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="ProtocolVersion"
type="xs:string"/>
  </xs:sequence>
</xs:complexType>
<xs:element name="CreateApplicationResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="CreateApplicationResult"
type="tns1:CommandResult"/>
      <xs:element minOccurs="0" maxOccurs="1" name="result" type="tns1:CreateAppResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:complexType name="CreateAppResult">
  <xs:complexContent mixed="false">
    <xs:extension base="tns1:ServiceResult">
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="1" name="ApplicationUrl" type="xs:string"/>
      </xs:sequence>
      <xs:attribute name="ProtocolVersion" type="xs:string"/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:element name="DeleteApplication">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="commandParameter"
type="tns1:CommandParameter"/>
      <xs:element minOccurs="0" maxOccurs="1" name="container" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="parameters"
type="tns1>DeleteApplicationParameters"/>
      <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="userId" type="q1:guid"/>
      <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="userCookieId" type="q1:guid"/>
    </xs:sequence>
  </xs:complexType>

```

```

</xs:element>
<xs:complexType name="DeleteApplicationParameters">
  <xs:complexContent mixed="false">
    <xs:extension base="tns1:ServiceParameters">
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="1" name="RelativeUrl" type="xs:string"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:element name="DeleteApplicationResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="DeleteApplicationResult"
type="tns1:CommandResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="GetApplicationInformation">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="commandParameter"
type="tns1:CommandParameter"/>
      <xs:element minOccurs="0" maxOccurs="1" name="container" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="parameters"
type="tns1:GetApplicationInformationParameters"/>
      <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="userCookieId" type="q1:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:complexType name="GetApplicationInformationParameters">
  <xs:complexContent mixed="false">
    <xs:extension base="tns1:ServiceParameters">
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="1" name="ProtocolVersionOptions"
type="tns1:ProtocolVersionList"/>
        <xs:element minOccurs="0" maxOccurs="1" name="KnownObjects"
type="tns1:ObjectIdentityList"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:complexType name="ObjectIdentityList">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="ObjectIdentity"
type="tns1:AccessObjectIdentity"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="AccessObjectIdentity">
  <xs:attribute name="ID" type="xs:int" use="required"/>
  <xs:attribute name="Version" type="xs:string"/>
</xs:complexType>
<xs:complexType name="IDList">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="ID" type="xs:int"/>
  </xs:sequence>
</xs:complexType>
<xs:complexType name="AccessObjectList">

```

```

    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="unbounded" name="AccessObject"
type="tns1:AccessObject"/>
    </xs:sequence>
  </xs:complexType>
  <xs:complexType name="AccessObject">
    <xs:sequence>
      <xs:element minOccurs="1" maxOccurs="1" name="ParentId" nillable="true" type="xs:int"/>
      <xs:element minOccurs="1" maxOccurs="1" name="Definition" nillable="true">
        <xs:complexType mixed="true">
          <xs:sequence>
            <xs:any/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    </xs:sequence>
    <xs:attribute name="ID" type="xs:int" use="required"/>
    <xs:attribute name="Name" type="xs:string"/>
    <xs:attribute name="ObjectType" type="tns1:AccessObjectType" use="required"/>
    <xs:attribute name="Description" type="xs:string"/>
    <xs:attribute name="ModifiedExternally" type="xs:boolean" use="required"/>
    <xs:attribute name="Version" type="xs:string"/>
    <xs:attribute name="StoragePath" type="xs:string"/>
  </xs:complexType>
  <xs:simpleType name="AccessObjectType">
    <xs:restriction base="xs:string">
      <xs:enumeration value="Unknown"/>
      <xs:enumeration value="Table"/>
      <xs:enumeration value="Query"/>
      <xs:enumeration value="DataMacro"/>
      <xs:enumeration value="Form"/>
      <xs:enumeration value="UIMacro"/>
      <xs:enumeration value="Report"/>
      <xs:enumeration value="Image"/>
      <xs:enumeration value="NavigationPane"/>
      <xs:enumeration value="AccessProperties"/>
      <xs:enumeration value="ApplicationVersion"/>
      <xs:enumeration value="ApplicationLogic"/>
      <xs:enumeration value="ApplicationStyle"/>
      <xs:enumeration value="LinkedTable"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:complexType name="Query">
    <xs:complexContent mixed="false">
      <xs:extension base="tns1:AccessObject"/>
    </xs:complexContent>
  </xs:complexType>
  <xs:complexType name="Table">
    <xs:complexContent mixed="false">
      <xs:extension base="tns1:AccessObject"/>
    </xs:complexContent>
  </xs:complexType>
  <xs:complexType name="DataMacro">
    <xs:complexContent mixed="false">
      <xs:extension base="tns1:AccessObject"/>
    </xs:complexContent>
  </xs:complexType>
  <xs:complexType name="LinkedTable">
    <xs:complexContent mixed="false">

```

```

        <xs:extension base="tnsl:AccessObject"/>
    </xs:complexContent>
</xs:complexType>
<xs:complexType name="AccessStorageObject" abstract="true">
    <xs:complexContent mixed="false">
        <xs:extension base="tnsl:AccessObject"/>
    </xs:complexContent>
</xs:complexType>
<xs:complexType name="UIMacro">
    <xs:complexContent mixed="false">
        <xs:extension base="tnsl:AccessStorageObject"/>
    </xs:complexContent>
</xs:complexType>
<xs:complexType name="Form">
    <xs:complexContent mixed="false">
        <xs:extension base="tnsl:AccessStorageObject"/>
    </xs:complexContent>
</xs:complexType>
<xs:element name="GetApplicationInformationResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="1" name="GetApplicationInformationResult"
type="tnsl:CommandResult"/>
            <xs:element minOccurs="0" maxOccurs="1" name="result" type="tnsl:GetAppInfoResult"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:complexType name="GetAppInfoResult">
    <xs:complexContent mixed="false">
        <xs:extension base="tnsl:ServiceResult">
            <xs:sequence>
                <xs:element minOccurs="0" maxOccurs="1" name="Collation" type="tnsl:Collation"/>
                <xs:element minOccurs="0" maxOccurs="1" name="NewObjects"
type="tnsl:AccessObjectList"/>
                <xs:element minOccurs="0" maxOccurs="1" name="UpdatedObjects"
type="tnsl:AccessObjectList"/>
                <xs:element minOccurs="0" maxOccurs="1" name="DeletedObjects" type="tnsl:IDList"/>
            </xs:sequence>
            <xs:attribute name="ProtocolVersion" type="xs:string"/>
            <xs:attribute name="Name" type="xs:string"/>
            <xs:attribute name="DatabaseName" type="xs:string"/>
            <xs:attribute name="DataServerName" type="xs:string"/>
            <xs:attribute name="ApplicationCulture" type="xs:string"/>
            <xs:attribute name="RequestIPAddress" type="xs:string"/>
            <xs:attribute name="IsDataMacroTracingOn" type="xs:boolean" use="required"/>
            <xs:attribute name="IsFirewallRestricted" type="xs:boolean" use="required"/>
            <xs:attribute name="IsDataConnectivitySupported" type="xs:boolean" use="required"/>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
</xs:element name="GetAccessObject">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="1" name="commandParameter"
type="tnsl:CommandParameter"/>
            <xs:element minOccurs="0" maxOccurs="1" name="container" type="xs:string"/>
            <xs:element minOccurs="0" maxOccurs="1" name="parameters" type="tnsl:GetParameters"/>
            <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="userCookieId" type="q1:guid"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>

```

```

        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:complexType name="GetParameters">
    <xs:complexContent mixed="false">
        <xs:extension base="tns1:ServiceParameters">
            <xs:attribute name="ProtocolVersion" type="xs:string"/>
            <xs:attribute name="ID" type="xs:int" use="required"/>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:element name="GetAccessObjectResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="1" name="GetAccessObjectResult"
type="tns1:CommandResult"/>
            <xs:element minOccurs="0" maxOccurs="1" name="result" type="tns1:GetResult"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:complexType name="GetResult">
    <xs:complexContent mixed="false">
        <xs:extension base="tns1:ServiceResult">
            <xs:sequence>
                <xs:element minOccurs="0" maxOccurs="1" name="Objects"
type="tns1:AccessObjectList"/>
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:element name="CreateAccessObject">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="1" name="commandParameter"
type="tns1:CommandParameter"/>
            <xs:element minOccurs="0" maxOccurs="1" name="container" type="xs:string"/>
            <xs:element minOccurs="0" maxOccurs="1" name="parameters"
type="tns1:CreateParameters"/>
            <xs:element xmlns:q1="http://microsoft.com/wsd1/types/" minOccurs="1" maxOccurs="1"
name="userCookieId" type="q1:guid"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:complexType name="CreateParameters">
    <xs:complexContent mixed="false">
        <xs:extension base="tns1:ServiceParameters">
            <xs:sequence>
                <xs:element minOccurs="0" maxOccurs="1" name="Body">
                    <xs:complexType mixed="true">
                        <xs:sequence>
                            <xs:any/>
                        </xs:sequence>
                    </xs:complexType>
                </xs:element>
            </xs:sequence>
            <xs:attribute name="ProtocolVersion" type="xs:string"/>
            <xs:attribute name="Name" type="xs:string"/>
            <xs:attribute name="Description" type="xs:string"/>
            <xs:attribute name="ObjectType" type="tns1:AccessObjectType" use="required"/>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>

```

```

        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:element name="CreateAccessObjectResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="1" name="CreateAccessObjectResult"
type="tns1:CommandResult"/>
            <xs:element minOccurs="0" maxOccurs="1" name="result" type="tns1:CreateResult"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:complexType name="CreateResult">
    <xs:complexContent mixed="false">
        <xs:extension base="tns1:ServiceResult">
            <xs:sequence>
                <xs:element minOccurs="0" maxOccurs="1" name="Objects"
type="tns1:AccessObjectList"/>
                <xs:element minOccurs="1" maxOccurs="1" name="RefreshRequired" type="xs:boolean"/>
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:element name="RenameAccessObject">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="1" name="commandParameter"
type="tns1:CommandParameter"/>
            <xs:element minOccurs="0" maxOccurs="1" name="container" type="xs:string"/>
            <xs:element minOccurs="0" maxOccurs="1" name="parameters"
type="tns1:RenameParameters"/>
            <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="userCookieId" type="q1:guid"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:complexType name="RenameParameters">
    <xs:complexContent mixed="false">
        <xs:extension base="tns1:ServiceParameters">
            <xs:attribute name="ProtocolVersion" type="xs:string"/>
            <xs:attribute name="ID" type="xs:int" use="required"/>
            <xs:attribute name="ObjectVersion" type="xs:string"/>
            <xs:attribute name="Name" type="xs:string"/>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:element name="RenameAccessObjectResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="1" name="RenameAccessObjectResult"
type="tns1:CommandResult"/>
            <xs:element minOccurs="0" maxOccurs="1" name="result" type="tns1:RenameResult"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:complexType name="RenameResult">
    <xs:complexContent mixed="false">
        <xs:extension base="tns1:ServiceResult">
            <xs:sequence>

```

```

        <xs:element minOccurs="0" maxOccurs="1" name="AccessObject"
type="tns1:AccessObject"/>
        <xs:element minOccurs="1" maxOccurs="1" name="Error" nillable="true"
type="tns1:ServiceError"/>
    </xs:sequence>
</xs:extension>
</xs:complexContent>
</xs:complexType>
<xs:element name="UpdateAccessObject">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="1" name="commandParameter"
type="tns1:CommandParameter"/>
            <xs:element minOccurs="0" maxOccurs="1" name="container" type="xs:string"/>
            <xs:element minOccurs="0" maxOccurs="1" name="parameters"
type="tns1:UpdateParameters"/>
            <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="userCookieId" type="q1:guid"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:complexType name="UpdateParameters">
    <xs:complexContent mixed="false">
        <xs:extension base="tns1:ServiceParameters">
            <xs:sequence>
                <xs:element minOccurs="0" maxOccurs="1" name="Body">
                    <xs:complexType mixed="true">
                        <xs:sequence>
                            <xs:any/>
                        </xs:sequence>
                    </xs:complexType>
                </xs:element>
            </xs:sequence>
            <xs:attribute name="ProtocolVersion" type="xs:string"/>
            <xs:attribute name="ID" type="xs:int" use="required"/>
            <xs:attribute name="ObjectVersion" type="xs:string"/>
            <xs:attribute name="Description" type="xs:string"/>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:element name="UpdateAccessObjectResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="1" name="UpdateAccessObjectResult"
type="tns1:CommandResult"/>
            <xs:element minOccurs="0" maxOccurs="1" name="result" type="tns1:UpdateResult"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:complexType name="UpdateResult">
    <xs:complexContent mixed="false">
        <xs:extension base="tns1:ServiceResult">
            <xs:sequence>
                <xs:element minOccurs="0" maxOccurs="1" name="Objects"
type="tns1:AccessObjectList"/>
                <xs:element minOccurs="1" maxOccurs="1" name="Error" nillable="true"
type="tns1:ServiceError"/>
                <xs:element minOccurs="1" maxOccurs="1" name="RefreshRequired" type="xs:boolean"/>
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>

```



```

    </xs:complexContent>
  </xs:complexType>
  <xs:element name="DeleteAccessObject">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="1" name="commandParameter"
type="tns1:CommandParameter"/>
        <xs:element minOccurs="0" maxOccurs="1" name="container" type="xs:string"/>
        <xs:element minOccurs="0" maxOccurs="1" name="parameters"
type="tns1>DeleteParameters"/>
        <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="userCookieId" type="q1:guid"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:complexType name="DeleteParameters">
    <xs:complexContent mixed="false">
      <xs:extension base="tns1:ServiceParameters">
        <xs:attribute name="ProtocolVersion" type="xs:string"/>
        <xs:attribute name="ID" type="xs:int" use="required"/>
        <xs:attribute name="ObjectVersion" type="xs:string"/>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="DeleteAccessObjectResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="1" name="DeleteAccessObjectResult"
type="tns1:CommandResult"/>
        <xs:element minOccurs="0" maxOccurs="1" name="result" type="tns1>DeleteResult"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:complexType name="DeleteResult">
    <xs:complexContent mixed="false">
      <xs:extension base="tns1:ServiceResult">
        <xs:sequence>
          <xs:element minOccurs="1" maxOccurs="1" name="Error" nillable="true"
type="tns1:ServiceError"/>
          <xs:element minOccurs="0" maxOccurs="1" name="AccessObject"
type="tns1:AccessObject"/>
        </xs:sequence>
        <xs:attribute name="ID" type="xs:int" use="required"/>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="SetDataMacroTracing">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="1" name="commandParameter"
type="tns1:CommandParameter"/>
        <xs:element minOccurs="0" maxOccurs="1" name="container" type="xs:string"/>
        <xs:element minOccurs="0" maxOccurs="1" name="parameters"
type="tns1:SetDataMacroTracingParameters"/>
        <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="userCookieId" type="q1:guid"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:complexType name="SetDataMacroTracingParameters">

```

```

    <xs:complexContent mixed="false">
      <xs:extension base="tns1:ServiceParameters">
        <xs:attribute name="ProtocolVersion" type="xs:string"/>
        <xs:attribute name="TurnTracingOn" type="xs:boolean" use="required"/>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="SetDataMacroTracingResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="1" name="SetDataMacroTracingResult"
type="tns1:CommandResult"/>
        <xs:element minOccurs="0" maxOccurs="1" name="result"
type="tns1:SetDataMacroTracingResult"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:complexType name="SetDataMacroTracingResult">
    <xs:complexContent mixed="false">
      <xs:extension base="tns1:ServiceResult">
        <xs:attribute name="IsTracingOn" type="xs:boolean" use="required"/>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="GetLinkedTableInformation">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="1" name="commandParameter"
type="tns1:CommandParameter"/>
        <xs:element minOccurs="0" maxOccurs="1" name="container" type="xs:string"/>
        <xs:element minOccurs="0" maxOccurs="1" name="parameters"
type="tns1:GetLinkedTableInformationParameters"/>
        <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="userCookieId" type="q1:guid"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:complexType name="GetLinkedTableInformationParameters">
    <xs:complexContent mixed="false">
      <xs:extension base="tns1:ServiceParameters">
        <xs:attribute name="ProtocolVersion" type="xs:string"/>
        <xs:attribute name="Name" type="xs:string"/>
        <xs:attribute name="SiteUrl" type="xs:string"/>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:element name="GetLinkedTableInformationResponse">
    <xs:complexType>
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="1" name="GetLinkedTableInformationResult"
type="tns1:CommandResult"/>
        <xs:element minOccurs="0" maxOccurs="1" name="result"
type="tns1:GetLinkedTableInformationResult"/>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:complexType name="GetLinkedTableInformationResult">
    <xs:complexContent mixed="false">
      <xs:extension base="tns1:ServiceResult">

```

```

        <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="1" name="Objects"
type="tnsl:AccessObjectList"/>
        </xs:sequence>
    </xs:extension>
</xs:complexContent>
</xs:complexType>
<xs:element name="RefreshLinkedTableInformation">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="1" name="commandParameter"
type="tnsl:CommandParameter"/>
            <xs:element minOccurs="0" maxOccurs="1" name="container" type="xs:string"/>
            <xs:element minOccurs="0" maxOccurs="1" name="parameters"
type="tnsl:RefreshLinkedTableInformationParameters"/>
            <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="userCookieId" type="q1:guid"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:complexType name="RefreshLinkedTableInformationParameters">
    <xs:complexContent mixed="false">
        <xs:extension base="tnsl:ServiceParameters">
            <xs:attribute name="ProtocolVersion" type="xs:string"/>
            <xs:attribute name="ID" type="xs:int" use="required"/>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:element name="RefreshLinkedTableInformationResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="1" name="RefreshLinkedTableInformationResult"
type="tnsl:CommandResult"/>
            <xs:element minOccurs="0" maxOccurs="1" name="result"
type="tnsl:RefreshLinkedTableInformationResult"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:complexType name="RefreshLinkedTableInformationResult">
    <xs:complexContent mixed="false">
        <xs:extension base="tnsl:ServiceResult">
            <xs:sequence>
                <xs:element minOccurs="0" maxOccurs="1" name="Objects"
type="tnsl:AccessObjectList"/>
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:element name="ImportData">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="1" name="commandParameter"
type="tnsl:CommandParameter"/>
            <xs:element minOccurs="0" maxOccurs="1" name="container" type="xs:string"/>
            <xs:element minOccurs="0" maxOccurs="1" name="parameters"
type="tnsl:ImportDataParameters"/>
            <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="userCookieId" type="q1:guid"/>
        </xs:sequence>
    </xs:complexType>

```

```

</xs:element>
<xs:complexType name="ImportDataParameters">
  <xs:complexContent mixed="false">
    <xs:extension base="tns1:ServiceParameters">
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="1" name="Body">
          <xs:complexType mixed="true">
            <xs:sequence>
              <xs:any/>
            </xs:sequence>
          </xs:complexType>
        </xs:element>
      </xs:sequence>
      <xs:attribute name="ProtocolVersion" type="xs:string"/>
      <xs:attribute name="Version" type="xs:string"/>
      <xs:attribute name="TargetObjectID" type="xs:int" use="required"/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:element name="ImportDataResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="ImportDataResult"
type="tns1:CommandResult"/>
      <xs:element minOccurs="0" maxOccurs="1" name="result" type="tns1:ImportDataResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:complexType name="ImportDataResult">
  <xs:complexContent mixed="false">
    <xs:extension base="tns1:ServiceResult">
      <xs:sequence>
        <xs:element minOccurs="1" maxOccurs="1" name="Error" nillable="true"
type="tns1:ServiceError"/>
      </xs:sequence>
      <xs:attribute name="RowsProcessed" type="xs:int" use="required"/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:element name="SetDataConnectivityStatus">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="commandParameter"
type="tns1:CommandParameter"/>
      <xs:element minOccurs="0" maxOccurs="1" name="container" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="parameters"
type="tns1:SetDataConnectivityStatusParameters"/>
      <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="userCookieId" type="q1:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:complexType name="SetDataConnectivityStatusParameters">
  <xs:complexContent mixed="false">
    <xs:extension base="tns1:ServiceParameters">
      <xs:attribute name="ProtocolVersion" type="xs:string"/>
      <xs:attribute name="Permission" type="tns1:ConnectivityPermissionLevel"
use="required"/>
      <xs:attribute name="IsEnabled" type="xs:boolean" use="required"/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>

```

```

        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:simpleType name="ConnectivityPermissionLevel">
    <xs:restriction base="xs:string">
        <xs:enumeration value="Reader"/>
        <xs:enumeration value="Writer"/>
    </xs:restriction>
</xs:simpleType>
<xs:complexType name="ConnectivityStatusInformation">
    <xs:attribute name="Permission" type="tns1:ConnectivityPermissionLevel" use="required"/>
    <xs:attribute name="IsEnabled" type="xs:boolean" use="required"/>
</xs:complexType>
<xs:element name="SetDataConnectivityStatusResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="1" name="SetDataConnectivityStatusResult"
type="tns1:CommandResult"/>
            <xs:element minOccurs="0" maxOccurs="1" name="result"
type="tns1:SetDataConnectivityStatusResult"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:complexType name="SetDataConnectivityStatusResult">
    <xs:complexContent mixed="false">
        <xs:extension base="tns1:ServiceResult">
            <xs:sequence>
                <xs:element minOccurs="0" maxOccurs="1" name="ConnectivityStatusInformation"
type="tns1:ConnectivityStatusInformation"/>
                <xs:element minOccurs="1" maxOccurs="1" name="Error" nillable="true"
type="tns1:ServiceError"/>
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:element name="GetDataConnectivityStatus">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="1" name="commandParameter"
type="tns1:CommandParameter"/>
            <xs:element minOccurs="0" maxOccurs="1" name="container" type="xs:string"/>
            <xs:element minOccurs="0" maxOccurs="1" name="parameters"
type="tns1:GetDataConnectivityStatusParameters"/>
            <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="userCookieId" type="q1:guid"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:complexType name="GetDataConnectivityStatusParameters">
    <xs:complexContent mixed="false">
        <xs:extension base="tns1:ServiceParameters">
            <xs:attribute name="ProtocolVersion" type="xs:string"/>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
<xs:complexType name="ArrayOfConnectivityStatusInformation">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="ConnectivityStatusInformation"
nillable="true" type="tns1:ConnectivityStatusInformation"/>
    </xs:sequence>

```

```

</xs:complexType>
<xs:element name="GetDataConnectivityStatusResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="GetDataConnectivityStatusResult"
type="tns1:CommandResult"/>
      <xs:element minOccurs="0" maxOccurs="1" name="result"
type="tns1:GetDataConnectivityStatusResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:complexType name="GetDataConnectivityStatusResult">
  <xs:complexContent mixed="false">
    <xs:extension base="tns1:ServiceResult">
      <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="1" name="StatusInformations"
type="tns1:ArrayOfConnectivityStatusInformation"/>
        <xs:element minOccurs="1" maxOccurs="1" name="Error" nillable="true"
type="tns1:ServiceError"/>
      </xs:sequence>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:element name="GetDataConnectivity">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="commandParameter"
type="tns1:CommandParameter"/>
      <xs:element minOccurs="0" maxOccurs="1" name="container" type="xs:string"/>
      <xs:element minOccurs="0" maxOccurs="1" name="parameters"
type="tns1:GetDataConnectivityParameters"/>
      <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="userCookieId" type="q1:guid"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:complexType name="GetDataConnectivityParameters">
  <xs:complexContent mixed="false">
    <xs:extension base="tns1:ServiceParameters">
      <xs:attribute name="ProtocolVersion" type="xs:string"/>
      <xs:attribute name="Permission" type="tns1:ConnectivityPermissionLevel"
use="required"/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
<xs:element name="GetDataConnectivityResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="GetDataConnectivityResult"
type="tns1:CommandResult"/>
      <xs:element minOccurs="0" maxOccurs="1" name="result"
type="tns1:GetDataConnectivityResult"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:complexType name="GetDataConnectivityResult">
  <xs:complexContent mixed="false">
    <xs:extension base="tns1:ServiceResult">
      <xs:sequence>

```

```

        <xs:element minOccurs="1" maxOccurs="1" name="Error" nillable="true"
type="tns1:ServiceError"/>
    </xs:sequence>
    <xs:attribute name="UserName" type="xs:string"/>
    <xs:attribute name="Password" type="xs:string"/>
    <xs:attribute name="Permission" type="tns1:ConnectivityPermissionLevel"
use="required"/>
</xs:extension>
</xs:complexContent>
</xs:complexType>
<xs:element name="GetThemeList">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="1" name="commandParameter"
type="tns1:CommandParameter"/>
            <xs:element minOccurs="0" maxOccurs="1" name="container" type="xs:string"/>
            <xs:element xmlns:q1="http://microsoft.com/wsdl/types/" minOccurs="1" maxOccurs="1"
name="userCookieId" type="q1:guid"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:complexType name="AccessTheme">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="ThemeColor"
type="tns1:AccessThemeColor"/>
    </xs:sequence>
    <xs:attribute name="ServerRelativeUrl" type="xs:string"/>
    <xs:attribute name="ThemeName" type="xs:string"/>
</xs:complexType>
<xs:complexType name="AccessThemeColor">
    <xs:attribute name="ColorName" type="xs:string"/>
    <xs:attribute name="Red" type="xs:int" use="required"/>
    <xs:attribute name="Green" type="xs:int" use="required"/>
    <xs:attribute name="Blue" type="xs:int" use="required"/>
    <xs:attribute name="Alpha" type="xs:int" use="required"/>
</xs:complexType>
<xs:complexType name="ArrayOfAccessTheme">
    <xs:sequence>
        <xs:element minOccurs="0" maxOccurs="unbounded" name="AccessTheme" nillable="true"
type="tns1:AccessTheme"/>
    </xs:sequence>
</xs:complexType>
<xs:element name="GetThemeListResponse">
    <xs:complexType>
        <xs:sequence>
            <xs:element minOccurs="0" maxOccurs="1" name="GetThemeListResult"
type="tns1:CommandResult"/>
            <xs:element minOccurs="0" maxOccurs="1" name="result"
type="tns1:GetThemeListResult"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>
<xs:complexType name="GetThemeListResult">
    <xs:complexContent mixed="false">
        <xs:extension base="tns1:ServiceResult">
            <xs:sequence>
                <xs:element minOccurs="0" maxOccurs="1" name="ThemeList"
type="tns1:ArrayOfAccessTheme"/>
            </xs:sequence>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>

```

```
</xs:complexContent>  
</xs:complexType>  
</xs:schema>
```

Preliminary



## 8 Appendix C: Product Behavior

The information in this specification is applicable to the following Microsoft products or supplemental software. References to product versions include released service packs:

- Microsoft® Access® 15 Technical Preview
- Microsoft® SharePoint® Server 15 Technical Preview

Exceptions, if any, are noted below. If a service pack or Quick Fix Engineering (QFE) number appears with the product version, behavior changed in that service pack or QFE. The new behavior also applies to subsequent service packs of the product unless otherwise specified. If a product edition appears with the product version, behavior is different in that product edition.

Unless otherwise specified, any statement of optional behavior in this specification that is prescribed using the terms SHOULD or SHOULD NOT implies product behavior in accordance with the SHOULD or SHOULD NOT prescription. Unless otherwise specified, the term MAY implies that the product does not follow the prescription.

[<1> Section 3.2.4.7.4.1](#): Access Services assumes that a localized version of the string will be displayed to a user.

[<2> Section 3.2.4.11.3.1](#): SharePoint Server 2010 will attempt to fall back to a **fallback UI culture** when an unsupported UI culture is requested.

## 9 Change Tracking

No table of changes is available. The document is either new or has had no changes since its last release.

Preliminary

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