

# [MS-CTXLS]: Excel Custom Toolbar Binary File Format

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## Revision Summary

| Date       | Revision History | Revision Class | Comments                                                                     |
|------------|------------------|----------------|------------------------------------------------------------------------------|
| 06/27/2008 | 1.0              |                | Initial Availability                                                         |
| 01/16/2009 | 1.01             | Editorial      | Revised and edited the technical content                                     |
| 07/13/2009 | 1.02             | Major          | Revised and edited the technical content                                     |
| 08/28/2009 | 1.03             | Editorial      | Revised and edited the technical content                                     |
| 11/06/2009 | 1.04             | Editorial      | Revised and edited the technical content                                     |
| 02/19/2010 | 2.0              | Editorial      | Revised and edited the technical content                                     |
| 03/31/2010 | 2.01             | Editorial      | Revised and edited the technical content                                     |
| 04/30/2010 | 2.02             | Editorial      | Revised and edited the technical content                                     |
| 06/07/2010 | 2.03             | Editorial      | Revised and edited the technical content                                     |
| 06/29/2010 | 2.04             | Editorial      | Changed language and formatting in the technical content.                    |
| 07/23/2010 | 2.04             | No change      | No changes to the meaning, language, or formatting of the technical content. |
| 09/27/2010 | 2.04             | No change      | No changes to the meaning, language, or formatting of the technical content. |
| 11/15/2010 | 2.04             | No change      | No changes to the meaning, language, or formatting of the technical content. |
| 12/17/2010 | 2.04             | No change      | No changes to the meaning, language, or formatting of the technical content. |
| 03/18/2011 | 2.04             | No change      | No changes to the meaning, language, or formatting of the technical content. |
| 06/10/2011 | 2.04             | No change      | No changes to the meaning, language, or formatting of the technical content. |
| 01/20/2012 | 2.5              | Minor          | Clarified the meaning of the technical content.                              |
| 04/11/2012 | 2.5              | No change      | No changes to the meaning, language, or formatting of the technical content. |
| 07/16/2012 | 2.6              | Minor          | Clarified the meaning of the technical content.                              |
| 10/08/2012 | 2.6              | No change      | No changes to the meaning, language, or formatting of the technical content. |
| 02/11/2013 | 2.6              | No change      | No changes to the meaning, language, or formatting of the technical content. |
| 07/30/2013 | 2.6              | No change      | No changes to the meaning, language, or formatting of                        |

| <b>Date</b> | <b>Revision History</b> | <b>Revision Class</b> | <b>Comments</b>                                                              |
|-------------|-------------------------|-----------------------|------------------------------------------------------------------------------|
|             |                         |                       | the technical content.                                                       |
| 11/18/2013  | 2.6                     | No change             | No changes to the meaning, language, or formatting of the technical content. |
| 02/10/2014  | 2.6                     | No change             | No changes to the meaning, language, or formatting of the technical content. |
| 04/30/2014  | 2.7                     | Minor                 | Clarified the meaning of the technical content.                              |

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# 1 Introduction

This document specifies the Excel Custom Toolbar Binary File Format Structure data used by Office Toolbars Stream structure described in [\[MS-XLS\]](#), and used by the toolbar customization structures described in [\[MS-OSHARED\]](#). Toolbar customization structures provide a run-time solution for the creation and deployment of toolbar customizations that are specific to the content of a file.

Sections 1.7 and 2 of this specification are normative and can contain the terms MAY, SHOULD, MUST, MUST NOT, and SHOULD NOT as defined in RFC 2119. All other sections and examples in this specification are informative.

## 1.1 Glossary

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

**basic toolbar**  
**custom toolbar**  
**custom toolbar control**  
**menu toolbar**  
**toolbar**  
**toolbar control**  
**toolbar control identifier (TCID)**

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 Specifications documentation 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.

[MSDN-GCID/Excel] Microsoft Corporation, "Excel General Command IDs Table", Excerpted from MS-CTXLS, <http://download.microsoft.com/download/8/4/D/84D5FC90-BB30-4FFB-B240-678CF8BB0E2C/ExcelGCIDTable.txt>

[MSDN-MTBCID/Excel] Microsoft Corporation, "Excel Menu Toolbar Command IDs Table", Excerpted from MS-CTXLS, <http://download.microsoft.com/download/8/4/D/84D5FC90-BB30-4FFB-B240-678CF8BB0E2C/ExcelMTBCIDTable.txt>

[MSDN-MTCCID/Excel] Microsoft Corporation, "Excel Menu Toolbar Control Command IDs Table", Excerpted from MS-CTXLS, <http://download.microsoft.com/download/8/4/D/84D5FC90-BB30-4FFB-B240-678CF8BB0E2C/ExcelMTCCIDTable.txt>

[MSDN-TBCID/Excel] Microsoft Corporation, "Excel Toolbar Command IDs Table", Excerpted from MS-CTXLS, <http://download.microsoft.com/download/8/4/D/84D5FC90-BB30-4FFB-B240-678CF8BB0E2C/ExcelTBCIDTable.txt>

[MSDN-TBID/Excel] Microsoft Corporation, "Excel Toolbar IDs Table", Excerpted from MS-CTXLS, <http://download.microsoft.com/download/8/4/D/84D5FC90-BB30-4FFB-B240-678CF8BB0E2C/ExcelTBIDTable.txt>

[MSDN-TCCID/Excel] Microsoft Corporation, "Excel Toolbar Control Command IDs Table", Excerpted from MS-CTXLS, <http://download.microsoft.com/download/8/4/D/84D5FC90-BB30-4FFB-B240-678CF8BB0E2C/ExcelTCCIDTable.txt>

[MSDN-TCID/Excel] Microsoft Corporation, "Excel Toolbar Control IDs Table", Excerpted from MS-CTXLS, <http://download.microsoft.com/download/8/4/D/84D5FC90-BB30-4FFB-B240-678CF8BB0E2C/ExcelTCIDTable.txt>

[MS-OSHARED] Microsoft Corporation, "[Office Common Data Types and Objects Structures](#)".

[MS-XLS] Microsoft Corporation, "[Excel Binary File Format \(.xls\) Structure](#)".

[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>

### 1.2.2 Informative References

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

### 1.3 Structure Overview (Synopsis)

None.

### 1.4 Relationship to Protocols and Other Structures

The toolbar data presented in section [2.1](#) of this document is used by the **TBCMenuSpecific** structure described in [\[MS-OSHARED\]](#) section 2.3.1.21.

The toolbar control data presented in section [2.2](#) of this document is used by the **TBCHeader** and **TBCSFlags** structures described in [\[MS-OSHARED\]](#) section 2.3.1.

The toolbar control command identifier data presented in sections [2.3](#), [2.4](#), [2.5](#), [2.6](#), [2.6.5](#) and [2.6.5](#) of this document is used by the **TBCCmd** structure described in [\[MS-XLS\]](#) section 2.6.5.

### 1.5 Applicability Statement

The **toolbar** information presented in section [2.1](#) of this document is intended to be used in conjunction with the toolbar customization structures described in [\[MS-OSHARED\]](#). It provides the association between a built-in toolbar, a **toolbar control**, and a **custom toolbar**.

The toolbar control information presented in section [2.2](#) of this document is intended to be used in conjunction with the toolbar customization structures described in [\[MS-OSHARED\]](#). It provides the values for the **tcid** field of the **TBCHeader** structure described in [\[MS-OSHARED\]](#) section 2.3.1.10 and the values for several fields of the **TBCSFlags** structure, described in [\[MS-OSHARED\]](#) section 2.3.1.12, which are used by built-in toolbar controls with a specific **toolbar control identifier (TCID)**.

The toolbar control command information presented in sections [2.3](#), [2.4](#), [2.5](#), [2.6](#), [2.7](#) and [2.6.5](#) of this document is intended to be used in conjunction with the **TBCCmd** structure described in [\[MS-XLS\]](#) section 2.6.5. It provides all the values that the **cmdID** field of the **TBCCmd** structure can have.

## 1.6 Versioning and Localization

None.

## 1.7 Vendor-Extensible Fields

None.

## 2 Structures

### 2.1 Toolbar Data

The Toolbar Data table in [\[MSDN-TBID/Excel\]](#) contains toolbar data used by the **TBCMenuSpecific** structure specified in [\[MS-OSHARED\]](#) section 2.3.1.21.

The **tbid** column of the Toolbar Data table contains a list of values for the **tbid** field of the **TBCMenuSpecific** structure. The Meaning column of the Toolbar Data table contains a short description of the toolbar associated with a specific toolbar identifier.

### 2.2 Toolbar Control Data

The Toolbar Control Data table in [\[MSDN-TCID/Excel\]](#) contains toolbar control data used by the **TBCHeader** and **TBCSFlags** structures specified in [\[MS-OSHARED\]](#) section 2.3.1.

The **tcid** column of the Toolbar Control Data table specifies the list of values that the **tcid** field of the **TBCHeader** structure, specified in [\[MS-OSHARED\]](#) section 2.3.1.10, MUST have if the toolbar control is not a **custom toolbar control**. The **tct** column specifies the toolbar control type as specified by the **tct** field of the **TBCHeader** structure specified in [\[MS-OSHARED\]](#) section 2.3.1.10 for the **tcid**. The Meaning column of the Toolbar Data table contains a short description for the **tcid**.

The value of the **tcid** field of the **TBCHeader** structure specified in [\[MS-OSHARED\]](#) section 2.3.1.10 MAY [<1>](#) also equal one of the following values:

- 5684
- 9062
- 9063
- 9064
- 9065
- 9066
- 9067
- 9068
- 9069
- 9070
- 9072
- 9073
- 9074
- 9075
- 9076
- 9077



- 9078
- 9079
- 9080

## 2.3 General Command Identifier Data

The General Command Identifier Data table in [\[MSDN-GCID/Excel\]](#) contains a list of values for the **cmdID** field of the **TBCCmd** structure specified in [\[MS-XLS\]](#) section 2.6.5 for built-in toolbar controls that were originally located in a **menu toolbar** and added to a custom toolbar. All entries in this table MUST use a **cmdType** value of "0x02". The Meaning column of the General Command Identifier Data table contains a short description for the **cmdID**, which can be used to cross reference the **tcid** values from the Toolbar Control Data table referenced in section [2.2](#).

## 2.4 Toolbar Control Command Identifier Data

The Toolbar Control Command Identifier Data table in [\[MSDN-TCCID/Excel\]](#) contains a list of values for the **cmdID** field of the **TBCCmd** structure specified in [\[MS-XLS\]](#) section 2.6.5 for built-in toolbar controls that were originally located in a **basic toolbar** and added to a custom toolbar. All entries in this table MUST use a **cmdType** value of "0x01". The Meaning column of the Toolbar Control Command Identifier Data table contains a short description for the **cmdID**, which can be used to cross reference the **tcid** values from the Toolbar Control Data table referenced in section [2.2](#).

When the **TBC** structure specified in [\[MS-XLS\]](#) section 2.6.4 that contains the **TBCCmd** structure referenced here has a **tbch.tcid** value equal to "1926", "1927", or "1928", the value of the **cmdID** field of the **TBCCmd** structure SHOULD [<2>](#) be equal to "0x0059".

## 2.5 Menu Toolbar Control Command Identifier Data

The Menu Toolbar Control Command Identifier Data table [\[MSDN-MTCCID/Excel\]](#) contains a list of values for the **cmdID** field of the **TBCCmd** structure specified in [\[MS-XLS\]](#) section 2.6.5 for built-in toolbar controls that were originally located in a menu toolbar and added to a custom toolbar. All entries in this table MUST use a **cmdType** value of "0x03". The Meaning column of the Menu Toolbar Control Command Identifier Data table contains a short description for the **cmdID**, which can be used to cross reference the **tcid** values from the Toolbar Control Data table referenced in section [2.2](#).

## 2.6 Menu Toolbar Command Identifier Data

The Menu Toolbar Command Identifier Data table in [\[MSDN-MTBCID/Excel\]](#) contains a list of values for the **cmdID** field of the **TBCCmd** structure specified in [\[MS-XLS\]](#) section 2.6.5 for built-in toolbar controls of type "Popup", "ButtonPopup", "SplitButtonMRUPopup", or "SplitButtonPopup" that were originally located in a menu toolbar and added to a custom toolbar. All entries in this table MUST use a **cmdType** value of "0x07". The Meaning column of the Menu Toolbar Command Identifier Data table contains a short description for the **cmdID**, which can be used to cross reference the **tbid** values from the Toolbar Data table referenced in section [2.1](#).

## 2.7 Toolbar Command Identifier Data

The Toolbar Command Identifier Data table in [\[MSDN-TBCID/Excel\]](#) contains a list of values for the **cmdID** field of the **TBCCmd** structure specified in [\[MS-XLS\]](#) section 2.6.5 for built-in toolbar controls of type "Popup", "ButtonPopup", "SplitButtonMRUPopup", or "SplitButtonPopup" that were originally located in a basic toolbar and added to a custom toolbar. All entries in this table MUST use a **cmdType** value of "0x05". The Meaning column of the Toolbar Command Identifier Data table

contains a short description for the **cmdID**, which can be used to cross reference the **tbid** values from the Toolbar Data table referenced in section [2.1](#).

## 2.8 Toolbar Control Grid Command Identifier Data

The following Toolbar Control Grid Command Identifier Data table contains a list of values for the **cmdID** field of the **TBCCmd** structure specified in [\[MS-XLS\]](#) section 2.6.5 for built-in toolbar controls of type "Grid". All entries in this table MUST use a **cmdType** value of "0x00". The **tcid** column of this table contains a list of the values that the **tbch.tcid** field of the **TBC** structure specified in [\[MS-XLS\]](#) section 2.6.4 that contains the **TBCCmd** structure referenced here MUST have when using the **cmdID** values listed in the **cmdID** column.

| <b>tcid</b> | <b>cmdID</b> |
|-------------|--------------|
| 1459        | 0x00A5       |
| 1460        | 0x00A5       |
| 1461        | 0x00A5       |
| 1465        | 0x00A8       |
| 1466        | 0x00A8       |
| 1470        | 0x00AC       |
| 1471        | 0x00AC       |

### 3 Structure Examples

None.

## 4 Security Considerations

None.

## 5 Appendix A: 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 Excel 97
- Microsoft Excel 2000
- Microsoft Excel 2002
- Microsoft Office Excel 2003
- Microsoft Office Excel 2007
- Microsoft Excel 2010
- Microsoft Excel 2013

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 2.2:](#) The toolbar control identifier (TCID) values 5684, 9062, 9063, 9064, 9065, 9066, 9067, 9068, 9069, 9070, 9072, 9073, 9074, 9075, 9076, 9077, 9078, 9079, and 9080 are not supported.

[<2> Section 2.4:](#) In Excel 97 **cmdID** is equal to 0x0045. In Excel 2000 **cmdID** is equal to 0x004C. In Office Excel 2003 **cmdID** is equal to 0x0058. In Office Excel 2003, Office Excel 2007, and Excel 2010 **cmdID** is equal to 0x0059.

## 6 Change Tracking

This section identifies changes that were made to the [MS-CTXLS] protocol document between the February 2014 and April 2014 releases. Changes are classified as New, Major, Minor, Editorial, or No change.

The revision class **New** means that a new document is being released.

The revision class **Major** means that the technical content in the document was significantly revised. Major changes affect protocol interoperability or implementation. Examples of major changes are:

- A document revision that incorporates changes to interoperability requirements or functionality.
- The removal of a document from the documentation set.

The revision class **Minor** means that the meaning of the technical content was clarified. Minor changes do not affect protocol interoperability or implementation. Examples of minor changes are updates to clarify ambiguity at the sentence, paragraph, or table level.

The revision class **Editorial** means that the formatting in the technical content was changed. Editorial changes apply to grammatical, formatting, and style issues.

The revision class **No change** means that no new technical changes were introduced. Minor editorial and formatting changes may have been made, but the technical content of the document is identical to the last released version.

Major and minor changes can be described further using the following change types:

- New content added.
- Content updated.
- Content removed.
- New product behavior note added.
- Product behavior note updated.
- Product behavior note removed.
- New protocol syntax added.
- Protocol syntax updated.
- Protocol syntax removed.
- New content added due to protocol revision.
- Content updated due to protocol revision.
- Content removed due to protocol revision.
- New protocol syntax added due to protocol revision.
- Protocol syntax updated due to protocol revision.
- Protocol syntax removed due to protocol revision.

- Obsolete document removed.

Editorial changes are always classified with the change type **Editorially updated**.

Some important terms used in the change type descriptions are defined as follows:

- **Protocol syntax** refers to data elements (such as packets, structures, enumerations, and methods) as well as interfaces.
- **Protocol revision** refers to changes made to a protocol that affect the bits that are sent over the wire.

The changes made to this document are listed in the following table. For more information, please contact [dochelp@microsoft.com](mailto:dochelp@microsoft.com).

| Section                                                            | Tracking number (if applicable) and description                                | Major change (Y or N) | Change type        |
|--------------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------|--------------------|
| <a href="#">1 Introduction</a>                                     | Updated the introduction of this protocol document.                            | N                     | Content updated.   |
| <a href="#">1.3 Structure Overview (Synopsis)</a>                  | Added content for the section 1.3 'Overview'.                                  | N                     | New content added. |
| <a href="#">1.4 Relationship to Protocols and Other Structures</a> | Updated link for the toolbar control command identifier data.                  | N                     | Content updated.   |
| <a href="#">1.4 Relationship to Protocols and Other Structures</a> | Updated link for the TBCMenuSpecific structure.                                | N                     | Content updated.   |
| <a href="#">1.4 Relationship to Protocols and Other Structures</a> | Updated the link for TBCCmd structure.                                         | N                     | Content updated.   |
| <a href="#">1.5 Applicability Statement</a>                        | Updated link for TBCHeader and TBCSFlags structure.                            | N                     | Content updated.   |
| <a href="#">1.5 Applicability Statement</a>                        | Updated link for the toolbar control command identifier data.                  | N                     | Content updated.   |
| <a href="#">1.5 Applicability Statement</a>                        | Removed [MS-XLS] from the references for the toolbar customization structures. | N                     | Content removed.   |
| <a href="#">2.1 Toolbar Data</a>                                   | Updated link for the TBCMenuSpecific structure.                                | N                     | Content updated.   |
| <a href="#">2.2 Toolbar Control Data</a>                           | Updated link for TBCHeader structure.                                          | N                     | Content updated.   |
| <a href="#">2.3 General Command Identifier Data</a>                | Updated the link for the TBCCmd structure.                                     | N                     | Content updated.   |
| <a href="#">2.4 Toolbar Control Command</a>                        | Updated link for the TBCCmd and TBC structure.                                 | N                     | Content updated.   |

| <b>Section</b>                                                           | <b>Tracking number (if applicable) and description</b> | <b>Major change (Y or N)</b> | <b>Change type</b> |
|--------------------------------------------------------------------------|--------------------------------------------------------|------------------------------|--------------------|
| <a href="#">Identifier Data</a>                                          |                                                        |                              |                    |
| <a href="#">2.5<br/>Menu Toolbar Control<br/>Command Identifier Data</a> | Updated link for the TBCCmd structure.                 | N                            | Content updated.   |
| <a href="#">2.6<br/>Menu Toolbar Command<br/>Identifier Data</a>         | Updated link for the TBCCmd structure.                 | N                            | Content updated.   |
| <a href="#">2.7<br/>Toolbar Command Identifier<br/>Data</a>              | Updated link for the TBCCmd structure.                 | N                            | Content updated.   |
| <a href="#">2.8<br/>Toolbar Control Grid<br/>Command Identifier Data</a> | Updated link for the TBC and TBCCmd structure.         | N                            | Content updated.   |



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