**[MS-SPASA]:**

**SharePoint Analytics Service Application Protocol**

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**Revision Summary**

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| 4/11/2012 | 0.1 | None | No changes to the meaning, language, or formatting of the technical content. |
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Table of Contents

[1 Introduction 10](#_Toc536618343)

[1.1 Glossary 10](#_Toc536618344)

[1.2 References 11](#_Toc536618345)

[1.2.1 Normative References 12](#_Toc536618346)

[1.2.2 Informative References 12](#_Toc536618347)

[1.3 Overview 12](#_Toc536618348)

[1.4 Relationship to Other Protocols 13](#_Toc536618349)

[1.5 Prerequisites/Preconditions 13](#_Toc536618350)

[1.6 Applicability Statement 13](#_Toc536618351)

[1.7 Versioning and Capability Negotiation 13](#_Toc536618352)

[1.8 Vendor-Extensible Fields 14](#_Toc536618353)

[1.9 Standards Assignments 14](#_Toc536618354)

[2 Messages 15](#_Toc536618355)

[2.1 Transport 15](#_Toc536618356)

[2.2 Common Message Syntax 15](#_Toc536618357)

[2.2.1 Namespaces 15](#_Toc536618358)

[2.2.2 Messages 16](#_Toc536618359)

[2.2.3 Elements 16](#_Toc536618360)

[2.2.4 Complex Types 16](#_Toc536618361)

[2.2.4.1 AnalyticsEventTypeDefinition 16](#_Toc536618362)

[2.2.4.2 AnalyticsItemData 17](#_Toc536618363)

[2.2.4.3 AnalyticsTenantSettingsData 18](#_Toc536618364)

[2.2.4.4 AnalyticsUsageEvent 19](#_Toc536618365)

[2.2.4.5 ArrayOfAnalyticsItemData 19](#_Toc536618366)

[2.2.4.6 ArrayOfAnalyticsUsageEvent 20](#_Toc536618367)

[2.2.4.7 ArrayOfint 20](#_Toc536618368)

[2.2.5 Simple Types 20](#_Toc536618369)

[2.2.5.1 AnalyticsTenantSettingOptions 21](#_Toc536618370)

[2.2.5.2 char 21](#_Toc536618371)

[2.2.5.3 duration 21](#_Toc536618372)

[2.2.5.4 EventCountType 22](#_Toc536618373)

[2.2.5.5 EventOptions 22](#_Toc536618374)

[2.2.5.6 EventRollups 23](#_Toc536618375)

[2.2.5.7 guid 23](#_Toc536618376)

[2.2.6 Attributes 23](#_Toc536618377)

[2.2.7 Groups 23](#_Toc536618378)

[2.2.8 Attribute Groups 24](#_Toc536618379)

[3 Protocol Details 25](#_Toc536618380)

[3.1 Server Details 25](#_Toc536618381)

[3.1.1 Abstract Data Model 25](#_Toc536618382)

[3.1.2 Timers 26](#_Toc536618383)

[3.1.3 Initialization 26](#_Toc536618384)

[3.1.4 Message Processing Events and Sequencing Rules 26](#_Toc536618385)

[3.1.4.1 DeleteAllUsageDataForTenant 27](#_Toc536618386)

[3.1.4.1.1 Messages 27](#_Toc536618387)

[3.1.4.1.1.1 IAnalyticsServiceApplication\_DeleteAllUsageDataForTenant\_InputMessage 28](#_Toc536618388)

[3.1.4.1.1.2 IAnalyticsServiceApplication\_DeleteAllUsageDataForTenant\_OutputMessage 28](#_Toc536618389)

[3.1.4.1.2 Elements 28](#_Toc536618390)

[3.1.4.1.2.1 DeleteAllUsageDataForTenant 28](#_Toc536618391)

[3.1.4.1.2.2 DeleteAllUsageDataForTenantResponse 28](#_Toc536618392)

[3.1.4.1.3 Complex Types 29](#_Toc536618393)

[3.1.4.1.4 Simple Types 29](#_Toc536618394)

[3.1.4.1.5 Attributes 29](#_Toc536618395)

[3.1.4.1.6 Groups 29](#_Toc536618396)

[3.1.4.1.7 Attribute Groups 29](#_Toc536618397)

[3.1.4.2 DeleteCustomEventUsageDataForSite 29](#_Toc536618398)

[3.1.4.2.1 Messages 30](#_Toc536618399)

[3.1.4.2.1.1 IAnalyticsServiceApplication\_DeleteCustomEventUsageDataForSite\_InputMessage 30](#_Toc536618400)

[3.1.4.2.1.2 IAnalyticsServiceApplication\_DeleteCustomEventUsageDataForSite\_OutputMessage 30](#_Toc536618401)

[3.1.4.2.2 Elements 30](#_Toc536618402)

[3.1.4.2.2.1 DeleteCustomEventUsageDataForSite 30](#_Toc536618403)

[3.1.4.2.2.2 DeleteCustomEventUsageDataForSiteResponse 31](#_Toc536618404)

[3.1.4.2.3 Complex Types 31](#_Toc536618405)

[3.1.4.2.4 Simple Types 31](#_Toc536618406)

[3.1.4.2.5 Attributes 31](#_Toc536618407)

[3.1.4.2.6 Groups 31](#_Toc536618408)

[3.1.4.2.7 Attribute Groups 31](#_Toc536618409)

[3.1.4.3 DeleteCustomEventUsageDataForTenant 31](#_Toc536618410)

[3.1.4.3.1 Messages 32](#_Toc536618411)

[3.1.4.3.1.1 IAnalyticsServiceApplication\_DeleteCustomEventUsageDataForTenant\_InputMessage 32](#_Toc536618412)

[3.1.4.3.1.2 IAnalyticsServiceApplication\_DeleteCustomEventUsageDataForTenant\_OutputMessage 33](#_Toc536618413)

[3.1.4.3.2 Elements 33](#_Toc536618414)

[3.1.4.3.2.1 DeleteCustomEventUsageDataForTenant 33](#_Toc536618415)

[3.1.4.3.2.2 DeleteCustomEventUsageDataForTenantResponse 33](#_Toc536618416)

[3.1.4.3.3 Complex Types 34](#_Toc536618417)

[3.1.4.3.4 Simple Types 34](#_Toc536618418)

[3.1.4.3.5 Attributes 34](#_Toc536618419)

[3.1.4.3.6 Groups 34](#_Toc536618420)

[3.1.4.3.7 Attribute Groups 34](#_Toc536618421)

[3.1.4.4 DeleteRecommendationsDataForTenant 34](#_Toc536618422)

[3.1.4.4.1 Messages 34](#_Toc536618423)

[3.1.4.4.1.1 IAnalyticsServiceApplication\_DeleteRecommendationsDataForTenant\_InputMessage 35](#_Toc536618424)

[3.1.4.4.1.2 IAnalyticsServiceApplication\_DeleteRecommendationsDataForTenant\_OutputMessage 35](#_Toc536618425)

[3.1.4.4.2 Elements 35](#_Toc536618426)

[3.1.4.4.2.1 DeleteRecommendationsDataForTenant 35](#_Toc536618427)

[3.1.4.4.2.2 DeleteRecommendationsDataForTenantResponse 36](#_Toc536618428)

[3.1.4.4.3 Complex Types 36](#_Toc536618429)

[3.1.4.4.4 Simple Types 36](#_Toc536618430)

[3.1.4.4.5 Attributes 36](#_Toc536618431)

[3.1.4.4.6 Groups 36](#_Toc536618432)

[3.1.4.4.7 Attribute Groups 36](#_Toc536618433)

[3.1.4.5 DeleteStandardEventUsageDataForSite 36](#_Toc536618434)

[3.1.4.5.1 Messages 37](#_Toc536618435)

[3.1.4.5.1.1 IAnalyticsServiceApplication\_DeleteStandardEventUsageDataForSite\_InputMessage 37](#_Toc536618436)

[3.1.4.5.1.2 IAnalyticsServiceApplication\_DeleteStandardEventUsageDataForSite\_OutputMessage 37](#_Toc536618437)

[3.1.4.5.2 Elements 37](#_Toc536618438)

[3.1.4.5.2.1 DeleteStandardEventUsageDataForSite 38](#_Toc536618439)

[3.1.4.5.2.2 DeleteStandardEventUsageDataForSiteResponse 38](#_Toc536618440)

[3.1.4.5.3 Complex Types 38](#_Toc536618441)

[3.1.4.5.4 Simple Types 38](#_Toc536618442)

[3.1.4.5.5 Attributes 38](#_Toc536618443)

[3.1.4.5.6 Groups 39](#_Toc536618444)

[3.1.4.5.7 Attribute Groups 39](#_Toc536618445)

[3.1.4.6 DeleteStandardEventUsageDataForTenant 39](#_Toc536618446)

[3.1.4.6.1 Messages 39](#_Toc536618447)

[3.1.4.6.1.1 IAnalyticsServiceApplication\_DeleteStandardEventUsageDataForTenant\_InputMessage 40](#_Toc536618448)

[3.1.4.6.1.2 IAnalyticsServiceApplication\_DeleteStandardEventUsageDataForTenant\_OutputMessage 40](#_Toc536618449)

[3.1.4.6.2 Elements 40](#_Toc536618450)

[3.1.4.6.2.1 DeleteStandardEventUsageDataForTenant 40](#_Toc536618451)

[3.1.4.6.2.2 DeleteStandardEventUsageDataForTenantResponse 41](#_Toc536618452)

[3.1.4.6.3 Complex Types 41](#_Toc536618453)

[3.1.4.6.4 Simple Types 41](#_Toc536618454)

[3.1.4.6.5 Attributes 41](#_Toc536618455)

[3.1.4.6.6 Groups 41](#_Toc536618456)

[3.1.4.6.7 Attribute Groups 41](#_Toc536618457)

[3.1.4.7 GetAnalyticsEventTypeDefinition 41](#_Toc536618458)

[3.1.4.7.1 Messages 42](#_Toc536618459)

[3.1.4.7.1.1 IAnalyticsServiceApplication\_GetAnalyticsEventTypeDefinition\_InputMessage 42](#_Toc536618460)

[3.1.4.7.1.2 IAnalyticsServiceApplication\_GetAnalyticsEventTypeDefinition\_OutputMessage 42](#_Toc536618461)

[3.1.4.7.2 Elements 42](#_Toc536618462)

[3.1.4.7.2.1 GetAnalyticsEventTypeDefinition 43](#_Toc536618463)

[3.1.4.7.2.2 GetAnalyticsEventTypeDefinitionResponse 43](#_Toc536618464)

[3.1.4.7.3 Complex Types 43](#_Toc536618465)

[3.1.4.7.4 Simple Types 43](#_Toc536618466)

[3.1.4.7.5 Attributes 43](#_Toc536618467)

[3.1.4.7.6 Groups 43](#_Toc536618468)

[3.1.4.7.7 Attribute Groups 43](#_Toc536618469)

[3.1.4.8 GetAnalyticsEventTypeDefinitions 44](#_Toc536618470)

[3.1.4.8.1 Messages 44](#_Toc536618471)

[3.1.4.8.1.1 IAnalyticsServiceApplication\_GetAnalyticsEventTypeDefinitions\_InputMessage 44](#_Toc536618472)

[3.1.4.8.1.2 IAnalyticsServiceApplication\_GetAnalyticsEventTypeDefinitions\_OutputMessage 45](#_Toc536618473)

[3.1.4.8.2 Elements 45](#_Toc536618474)

[3.1.4.8.2.1 GetAnalyticsEventTypeDefinitions 45](#_Toc536618475)

[3.1.4.8.2.2 GetAnalyticsEventTypeDefinitionsResponse 45](#_Toc536618476)

[3.1.4.8.3 Complex Types 46](#_Toc536618477)

[3.1.4.8.3.1 ArrayOfAnalyticsEventTypeDefinition 46](#_Toc536618478)

[3.1.4.8.4 Simple Types 46](#_Toc536618479)

[3.1.4.8.4.1 AnalyticsEventTypes 46](#_Toc536618480)

[3.1.4.8.5 Attributes 47](#_Toc536618481)

[3.1.4.8.6 Groups 47](#_Toc536618482)

[3.1.4.8.7 Attribute Groups 47](#_Toc536618483)

[3.1.4.9 GetAnalyticsItemData 47](#_Toc536618484)

[3.1.4.9.1 Messages 48](#_Toc536618485)

[3.1.4.9.1.1 IAnalyticsServiceApplication\_GetAnalyticsItemData\_InputMessage 48](#_Toc536618486)

[3.1.4.9.1.2 IAnalyticsServiceApplication\_GetAnalyticsItemData\_OutputMessage 48](#_Toc536618487)

[3.1.4.9.2 Elements 48](#_Toc536618488)

[3.1.4.9.2.1 GetAnalyticsItemData 48](#_Toc536618489)

[3.1.4.9.2.2 GetAnalyticsItemDataResponse 49](#_Toc536618490)

[3.1.4.9.3 Complex Types 49](#_Toc536618491)

[3.1.4.9.4 Simple Types 49](#_Toc536618492)

[3.1.4.9.5 Attributes 49](#_Toc536618493)

[3.1.4.9.6 Groups 49](#_Toc536618494)

[3.1.4.9.7 Attribute Groups 49](#_Toc536618495)

[3.1.4.10 GetAnalyticsItemsData 50](#_Toc536618496)

[3.1.4.10.1 Messages 50](#_Toc536618497)

[3.1.4.10.1.1 IAnalyticsServiceApplication\_GetAnalyticsItemsData\_InputMessage 50](#_Toc536618498)

[3.1.4.10.1.2 IAnalyticsServiceApplication\_GetAnalyticsItemsData\_OutputMessage 50](#_Toc536618499)

[3.1.4.10.2 Elements 51](#_Toc536618500)

[3.1.4.10.2.1 GetAnalyticsItemsData 51](#_Toc536618501)

[3.1.4.10.2.2 GetAnalyticsItemsDataResponse 51](#_Toc536618502)

[3.1.4.10.3 Complex Types 51](#_Toc536618503)

[3.1.4.10.3.1 ArrayOfstring 52](#_Toc536618504)

[3.1.4.10.4 Simple Types 52](#_Toc536618505)

[3.1.4.10.5 Attributes 52](#_Toc536618506)

[3.1.4.10.6 Groups 52](#_Toc536618507)

[3.1.4.10.7 Attribute Groups 52](#_Toc536618508)

[3.1.4.11 GetAnalyticsTenantConfiguration 52](#_Toc536618509)

[3.1.4.11.1 Messages 53](#_Toc536618510)

[3.1.4.11.1.1 IAnalyticsServiceApplication\_GetAnalyticsTenantConfiguration\_InputMessage 53](#_Toc536618511)

[3.1.4.11.1.2 IAnalyticsServiceApplication\_GetAnalyticsTenantConfiguration\_OutputMessage 53](#_Toc536618512)

[3.1.4.11.2 Elements 53](#_Toc536618513)

[3.1.4.11.2.1 GetAnalyticsTenantConfiguration 54](#_Toc536618514)

[3.1.4.11.2.2 GetAnalyticsTenantConfigurationResponse 54](#_Toc536618515)

[3.1.4.11.3 Complex Types 54](#_Toc536618516)

[3.1.4.11.3.1 AnalyticsTenantConfig 54](#_Toc536618517)

[3.1.4.11.4 Simple Types 55](#_Toc536618518)

[3.1.4.11.5 Attributes 55](#_Toc536618519)

[3.1.4.11.6 Groups 55](#_Toc536618520)

[3.1.4.11.7 Attribute Groups 55](#_Toc536618521)

[3.1.4.12 GetGlobalAnalyticsItemDataBatch 55](#_Toc536618522)

[3.1.4.12.1 Messages 56](#_Toc536618523)

[3.1.4.12.1.1 IAnalyticsServiceApplication\_GetGlobalAnalyticsItemDataBatch\_InputMessage 56](#_Toc536618524)

[3.1.4.12.1.2 IAnalyticsServiceApplication\_GetGlobalAnalyticsItemDataBatch\_OutputMessage 56](#_Toc536618525)

[3.1.4.12.2 Elements 57](#_Toc536618526)

[3.1.4.12.2.1 GetGlobalAnalyticsItemDataBatch 57](#_Toc536618527)

[3.1.4.12.2.2 GetGlobalAnalyticsItemDataBatchResponse 57](#_Toc536618528)

[3.1.4.12.3 Complex Types 58](#_Toc536618529)

[3.1.4.12.3.1 ContinuationTokenItemData 58](#_Toc536618530)

[3.1.4.12.3.2 AnalyticsItemDataBatch 58](#_Toc536618531)

[3.1.4.12.4 Simple Types 59](#_Toc536618532)

[3.1.4.12.4.1 ContinuationTokenItemData.Scope 59](#_Toc536618533)

[3.1.4.12.5 Attributes 59](#_Toc536618534)

[3.1.4.12.6 Groups 59](#_Toc536618535)

[3.1.4.12.7 Attribute Groups 59](#_Toc536618536)

[3.1.4.13 GetRawAnayticsTenantSettings 59](#_Toc536618537)

[3.1.4.13.1 Messages 60](#_Toc536618538)

[3.1.4.13.1.1 IAnalyticsServiceApplication\_GetRawAnayticsTenantSettings\_InputMessage 60](#_Toc536618539)

[3.1.4.13.1.2 IAnalyticsServiceApplication\_GetRawAnayticsTenantSettings\_OutputMessage 60](#_Toc536618540)

[3.1.4.13.2 Elements 61](#_Toc536618541)

[3.1.4.13.2.1 GetRawAnayticsTenantSettings 61](#_Toc536618542)

[3.1.4.13.2.2 GetRawAnayticsTenantSettingsResponse 61](#_Toc536618543)

[3.1.4.13.3 Complex Types 61](#_Toc536618544)

[3.1.4.13.4 Simple Types 61](#_Toc536618545)

[3.1.4.13.5 Attributes 62](#_Toc536618546)

[3.1.4.13.6 Groups 62](#_Toc536618547)

[3.1.4.13.7 Attribute Groups 62](#_Toc536618548)

[3.1.4.14 GetRawAnalyticsTenantSettingsBatch 62](#_Toc536618549)

[3.1.4.14.1 Messages 62](#_Toc536618550)

[3.1.4.14.1.1 IAnalyticsServiceApplication\_GetRawAnalyticsTenantSettingsBatch\_InputMessage 63](#_Toc536618551)

[3.1.4.14.1.2 IAnalyticsServiceApplication\_GetRawAnalyticsTenantSettingsBatch\_OutputMessage 63](#_Toc536618552)

[3.1.4.14.2 Elements 63](#_Toc536618553)

[3.1.4.14.2.1 GetRawAnalyticsTenantSettingsBatch 63](#_Toc536618554)

[3.1.4.14.2.2 GetRawAnalyticsTenantSettingsBatchResponse 64](#_Toc536618555)

[3.1.4.14.3 Complex Types 64](#_Toc536618556)

[3.1.4.14.3.1 AnalyticsTenantSettingsDataBatch 64](#_Toc536618557)

[3.1.4.14.3.2 ArrayOfAnalyticsTenantSettingsData 64](#_Toc536618558)

[3.1.4.14.4 Simple Types 65](#_Toc536618559)

[3.1.4.14.5 Attributes 65](#_Toc536618560)

[3.1.4.14.6 Groups 65](#_Toc536618561)

[3.1.4.14.7 Attribute Groups 65](#_Toc536618562)

[3.1.4.15 GetRollupAnalyticsItemData 65](#_Toc536618563)

[3.1.4.15.1 Messages 66](#_Toc536618564)

[3.1.4.15.1.1 IAnalyticsServiceApplication\_GetRollupAnalyticsItemData\_InputMessage 66](#_Toc536618565)

[3.1.4.15.1.2 IAnalyticsServiceApplication\_GetRollupAnalyticsItemData\_OutputMessage 66](#_Toc536618566)

[3.1.4.15.2 Elements 66](#_Toc536618567)

[3.1.4.15.2.1 GetRollupAnalyticsItemData 67](#_Toc536618568)

[3.1.4.15.2.2 GetRollupAnalyticsItemDataResponse 67](#_Toc536618569)

[3.1.4.15.3 Complex Types 67](#_Toc536618570)

[3.1.4.15.4 Simple Types 67](#_Toc536618571)

[3.1.4.15.5 Attributes 67](#_Toc536618572)

[3.1.4.15.6 Groups 68](#_Toc536618573)

[3.1.4.15.7 Attribute Groups 68](#_Toc536618574)

[3.1.4.16 GetSearchReport 68](#_Toc536618575)

[3.1.4.16.1 Messages 68](#_Toc536618576)

[3.1.4.16.1.1 IAnalyticsServiceApplication\_GetSearchReport\_InputMessage 68](#_Toc536618577)

[3.1.4.16.1.2 IAnalyticsServiceApplication\_GetSearchReport\_OutputMessage 69](#_Toc536618578)

[3.1.4.16.2 Elements 69](#_Toc536618579)

[3.1.4.16.2.1 GetSearchReport 69](#_Toc536618580)

[3.1.4.16.2.2 GetSearchReportResponse 69](#_Toc536618581)

[3.1.4.16.3 Complex Types 70](#_Toc536618582)

[3.1.4.16.3.1 ArrayOfQueryReportData 70](#_Toc536618583)

[3.1.4.16.3.2 QueryReportData 70](#_Toc536618584)

[3.1.4.16.4 Simple Types 70](#_Toc536618585)

[3.1.4.16.5 Attributes 71](#_Toc536618586)

[3.1.4.16.6 Groups 71](#_Toc536618587)

[3.1.4.16.7 Attribute Groups 71](#_Toc536618588)

[3.1.4.17 GetTenantAnalyticsItemData 71](#_Toc536618589)

[3.1.4.17.1 Messages 71](#_Toc536618590)

[3.1.4.17.1.1 IAnalyticsServiceApplication\_GetTenantAnalyticsItemData\_InputMessage 72](#_Toc536618591)

[3.1.4.17.1.2 IAnalyticsServiceApplication\_GetTenantAnalyticsItemData\_OutputMessage 72](#_Toc536618592)

[3.1.4.17.2 Elements 72](#_Toc536618593)

[3.1.4.17.2.1 GetTenantAnalyticsItemData 72](#_Toc536618594)

[3.1.4.17.2.2 GetTenantAnalyticsItemDataResponse 72](#_Toc536618595)

[3.1.4.17.3 Complex Types 73](#_Toc536618596)

[3.1.4.17.4 Simple Types 73](#_Toc536618597)

[3.1.4.17.5 Attributes 73](#_Toc536618598)

[3.1.4.17.6 Groups 73](#_Toc536618599)

[3.1.4.17.7 Attribute Groups 73](#_Toc536618600)

[3.1.4.18 SendAnalyticsUsageEvents 73](#_Toc536618601)

[3.1.4.18.1 Messages 74](#_Toc536618602)

[3.1.4.18.1.1 IAnalyticsServiceApplication\_SendAnalyticsUsageEvents\_InputMessage 74](#_Toc536618603)

[3.1.4.18.1.2 IAnalyticsServiceApplication\_SendAnalyticsUsageEvents\_OutputMessage 74](#_Toc536618604)

[3.1.4.18.2 Elements 74](#_Toc536618605)

[3.1.4.18.2.1 SendAnalyticsUsageEvents 74](#_Toc536618606)

[3.1.4.18.2.2 SendAnalyticsUsageEventsResponse 75](#_Toc536618607)

[3.1.4.18.3 Complex Types 75](#_Toc536618608)

[3.1.4.18.4 Simple Types 75](#_Toc536618609)

[3.1.4.18.5 Attributes 75](#_Toc536618610)

[3.1.4.18.6 Groups 75](#_Toc536618611)

[3.1.4.18.7 Attribute Groups 75](#_Toc536618612)

[3.1.4.19 UpsertRawAnalyticsTenantSettings 75](#_Toc536618613)

[3.1.4.19.1 Messages 76](#_Toc536618614)

[3.1.4.19.1.1 IAnalyticsServiceApplication\_UpsertRawAnalyticsTenantSettings\_InputMessage 76](#_Toc536618615)

[3.1.4.19.1.2 IAnalyticsServiceApplication\_UpsertRawAnalyticsTenantSettings\_OutputMessage 76](#_Toc536618616)

[3.1.4.19.2 Elements 76](#_Toc536618617)

[3.1.4.19.2.1 UpsertRawAnalyticsTenantSettings 77](#_Toc536618618)

[3.1.4.19.2.2 UpsertRawAnalyticsTenantSettingsResponse 77](#_Toc536618619)

[3.1.4.19.3 Complex Types 77](#_Toc536618620)

[3.1.4.19.4 Simple Types 77](#_Toc536618621)

[3.1.4.19.5 Attributes 77](#_Toc536618622)

[3.1.4.19.6 Groups 77](#_Toc536618623)

[3.1.4.19.7 Attribute Groups 77](#_Toc536618624)

[3.1.4.20 GetQueryTermsForUser 78](#_Toc536618625)

[3.1.4.20.1 Messages 78](#_Toc536618626)

[3.1.4.20.1.1 IAnalyticsServiceApplication\_GetQueryTermsForUser\_InputMessage 78](#_Toc536618627)

[3.1.4.20.1.2 IAnalyticsServiceApplication\_GetQueryTermsForUser\_OutputMessage 78](#_Toc536618628)

[3.1.4.20.2 Elements 79](#_Toc536618629)

[3.1.4.20.2.1 GetQueryTermsForUser 79](#_Toc536618630)

[3.1.4.20.2.2 GetQueryTermsForUserResponse 79](#_Toc536618631)

[3.1.4.20.3 Complex Types 79](#_Toc536618632)

[3.1.4.20.4 Simple Types 79](#_Toc536618633)

[3.1.4.20.5 Attributes 80](#_Toc536618634)

[3.1.4.20.6 Groups 80](#_Toc536618635)

[3.1.4.20.7 Attribute Groups 80](#_Toc536618636)

[3.1.4.21 SendAnalyticsUsageEventsToEventStore 80](#_Toc536618637)

[3.1.4.21.1 Messages 80](#_Toc536618638)

[3.1.4.21.1.1 IAnalyticsServiceApplication\_SendAnalyticsUsageEventsToEventStore\_InputMessage 81](#_Toc536618639)

[3.1.4.21.1.2 IAnalyticsServiceApplication\_SendAnalyticsUsageEventsToEventStore\_OutputMessage 81](#_Toc536618640)

[3.1.4.21.2 Elements 81](#_Toc536618641)

[3.1.4.21.2.1 SendAnalyticsUsageEventsToEventStore 81](#_Toc536618642)

[3.1.4.21.2.2 SendAnalyticsUsageEventsToEventStoreResponse 81](#_Toc536618643)

[3.1.4.21.3 Complex Types 82](#_Toc536618644)

[3.1.4.21.4 Simple Types 82](#_Toc536618645)

[3.1.4.21.5 Attributes 82](#_Toc536618646)

[3.1.4.21.6 Groups 82](#_Toc536618647)

[3.1.4.21.7 Attribute Groups 82](#_Toc536618648)

[3.1.5 Timer Events 82](#_Toc536618649)

[3.1.6 Other Local Events 82](#_Toc536618650)

[4 Protocol Examples 83](#_Toc536618651)

[4.1 Delete All Usage Data for a Tenant 83](#_Toc536618652)

[4.2 Get an Analytics Event Type Definition 84](#_Toc536618653)

[4.3 Get Analytics Item Data 85](#_Toc536618654)

[4.4 Send Analytics Usage Events 88](#_Toc536618655)

[5 Security 90](#_Toc536618656)

[5.1 Security Considerations for Implementers 90](#_Toc536618657)

[5.2 Index of Security Parameters 90](#_Toc536618658)

[6 Appendix A: Full WSDL 91](#_Toc536618659)

[7 Appendix B: Full XML Schema 100](#_Toc536618660)

[7.1 http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Analytics Schema 100](#_Toc536618661)

[7.2 http://schemas.microsoft.com/2003/10/Serialization/Arrays Schema 101](#_Toc536618662)

[7.3 http://schemas.microsoft.com/2003/10/Serialization/ Schema 101](#_Toc536618663)

[7.4 http://tempuri.org/ Schema 102](#_Toc536618664)

[7.5 http://www.microsoft.com/sharepoint/search/KnownTypes/2011/01 Schema 108](#_Toc536618665)

[7.6 http://www.microsoft.com/sharepoint/search/KnownTypes/2011/05 Schema 111](#_Toc536618666)

[7.7 http://www.microsoft.com/sharepoint/search/KnownTypes/2011/09 Schema 111](#_Toc536618667)

[8 Appendix C: Product Behavior 113](#_Toc536618668)

[9 Change Tracking 114](#_Toc536618669)

[10 Index 115](#_Toc536618670)

# Introduction

A protocol client uses the SharePoint Analytics Service Application Protocol to send usage events for processing by a protocol server and to retrieve aggregated usage information from a protocol server.

Sections 1.5, 1.8, 1.9, 2, and 3 of this specification are normative. All other sections and examples in this specification are informative.

## Glossary

This document uses the following terms:

**globally unique identifier (GUID)**: A term used interchangeably with universally unique identifier (UUID) in Microsoft protocol technical documents (TDs). Interchanging the usage of these terms does not imply or require a specific algorithm or mechanism to generate the value. Specifically, the use of this term does not imply or require that the algorithms described in [[RFC4122]](https://go.microsoft.com/fwlink/?LinkId=90460) or [[C706]](https://go.microsoft.com/fwlink/?LinkId=89824) must be used for generating the [**GUID**](#gt_f49694cc-c350-462d-ab8e-816f0103c6c1). See also universally unique identifier (UUID).

**Hypertext Transfer Protocol (HTTP)**: An application-level protocol for distributed, collaborative, hypermedia information systems (text, graphic images, sound, video, and other multimedia files) on the World Wide Web.

**Hypertext Transfer Protocol Secure (HTTPS)**: An extension of HTTP that securely encrypts and decrypts web page requests. In some older protocols, "Hypertext Transfer Protocol over Secure Sockets Layer" is still used (Secure Sockets Layer has been deprecated). For more information, see [[SSL3]](https://go.microsoft.com/fwlink/?LinkId=90534) and [[RFC5246]](https://go.microsoft.com/fwlink/?LinkId=129803).

**rollup**: A type of calculated value that is derived from the aggregated scores of child or descendant key performance indicators (KPIs) in a scorecard.

**search query**: A complete set of conditions that are used to generate search results, including query text, sort order, and ranking parameters.

**site**: A group of related pages and data within a SharePoint site collection. The structure and content of a site is based on a site definition. Also referred to as SharePoint site and web site.

**SOAP**: A lightweight protocol for exchanging structured information in a decentralized, distributed environment. [**SOAP**](#gt_c1c313af-2310-4380-a6ea-c2cedc115958) uses XML technologies to define an extensible messaging framework, which provides a message construct that can be exchanged over a variety of underlying protocols. The framework has been designed to be independent of any particular programming model and other implementation-specific semantics. SOAP 1.2 supersedes SOAP 1.1. See [[SOAP1.2-1/2003]](https://go.microsoft.com/fwlink/?LinkId=90521).

**SOAP action**: The HTTP request header field used to indicate the intent of the [**SOAP**](#gt_c1c313af-2310-4380-a6ea-c2cedc115958) request, using a URI value. See [[SOAP1.1]](https://go.microsoft.com/fwlink/?LinkId=90520) section 6.1.1 for more information.

**SOAP body**: A container for the payload data being delivered by a SOAP message to its recipient. See [[SOAP1.2-1/2007]](https://go.microsoft.com/fwlink/?LinkId=94664) section 5.3 for more information.

**SOAP fault**: A container for error and status information within a SOAP message. See [SOAP1.2-1/2007] section 5.4 for more information.

**tenant**: A protocol client or protocol server that accesses a partition in a shared service database.

**timestamp**: A condition of a digital signature that indicates whether the signature was created with a valid certificate that has expired or was created with a certificate that had expired already. If the certificate expired after the signature was created, the signature can be trusted. If it expired before the signature was created, it cannot be trusted.

**Transmission Control Protocol (TCP)**: A protocol used with the Internet Protocol (IP) to send data in the form of message units between computers over the Internet. TCP handles keeping track of the individual units of data (called packets) that a message is divided into for efficient routing through the Internet.

**Unicode**: A character encoding standard developed by the Unicode Consortium that represents almost all of the written languages of the world. The [**Unicode**](#gt_c305d0ab-8b94-461a-bd76-13b40cb8c4d8) standard [[UNICODE5.0.0/2007]](https://go.microsoft.com/fwlink/?LinkId=154659) provides three forms (UTF-8, UTF-16, and UTF-32) and seven schemes (UTF-8, UTF-16, UTF-16 BE, UTF-16 LE, UTF-32, UTF-32 LE, and UTF-32 BE).

**Web Services Description Language (WSDL)**: An XML format for describing network services as a set of endpoints that operate on messages that contain either document-oriented or procedure-oriented information. The operations and messages are described abstractly and are bound to a concrete network protocol and message format in order to define an endpoint. Related concrete endpoints are combined into abstract endpoints, which describe a network service. WSDL is extensible, which allows the description of endpoints and their messages regardless of the message formats or network protocols that are used.

**website**: (1) A group of related webpages that is hosted by a server on the World Wide Web or an intranet. Each website has its own entry points, metadata, administration settings, and workflows. Also referred to as site.

(2) A group of related pages and data within a SharePoint site collection. The structure and content of a site is based on a site definition. Also referred to as SharePoint site and site.

**WSDL message**: An abstract, typed definition of the data that is communicated during a [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299) [[WSDL]](https://go.microsoft.com/fwlink/?LinkId=90577). Also, an element that describes the data being exchanged between web service providers and clients.

**WSDL operation**: A single action or function of a web service. The execution of a WSDL operation typically requires the exchange of messages between the service requestor and the service provider.

**XML namespace**: A collection of names that is used to identify elements, types, and attributes in XML documents identified in a URI reference [[RFC3986]](https://go.microsoft.com/fwlink/?LinkId=90453). A combination of XML namespace and local name allows XML documents to use elements, types, and attributes that have the same names but come from different sources. For more information, see [[XMLNS-2ED]](https://go.microsoft.com/fwlink/?LinkId=90602).

**XML namespace prefix**: An abbreviated form of an [**XML namespace**](#gt_485f05b3-df3b-45ac-b8bf-d05f5d185a24), as described in [[XML]](https://go.microsoft.com/fwlink/?LinkId=90598).

**XML schema**: A description of a type of XML document that is typically expressed in terms of constraints on the structure and content of documents of that type, in addition to the basic syntax constraints that are imposed by XML itself. An XML schema provides a view of a document type at a relatively high level of abstraction.

**MAY, SHOULD, MUST, SHOULD NOT, MUST NOT:** These terms (in all caps) are used as defined in [[RFC2119]](https://go.microsoft.com/fwlink/?LinkId=90317). All statements of optional behavior use either MAY, SHOULD, or SHOULD NOT.

## References

Links to a document in the Microsoft Open Specifications library point to the correct section in the most recently published version of the referenced document. However, because individual documents in the library are not updated at the same time, the section numbers in the documents may not match. You can confirm the correct section numbering by checking the [Errata](https://go.microsoft.com/fwlink/?linkid=850906).

### 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. We will assist you in finding the relevant information.

[MS-SPSTWS] Microsoft Corporation, "[SharePoint Security Token Service Web Service Protocol](%5BMS-SPSTWS%5D.pdf#Section_98b483787d1543be986fab0084887ecf)".

[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](https://go.microsoft.com/fwlink/?LinkId=90317)

[RFC2616] Fielding, R., Gettys, J., Mogul, J., et al., "Hypertext Transfer Protocol -- HTTP/1.1", RFC 2616, June 1999, [http://www.rfc-editor.org/rfc/rfc2616.txt](https://go.microsoft.com/fwlink/?LinkId=90372)

[SOAP1.1] Box, D., Ehnebuske, D., Kakivaya, G., et al., "Simple Object Access Protocol (SOAP) 1.1", W3C Note, May 2000, [http://www.w3.org/TR/2000/NOTE-SOAP-20000508/](https://go.microsoft.com/fwlink/?LinkId=90520)

[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](https://go.microsoft.com/fwlink/?LinkId=90521)

[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](https://go.microsoft.com/fwlink/?LinkId=90577)

[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/](https://go.microsoft.com/fwlink/?LinkId=191840)

[XMLSCHEMA1/2] Thompson, H., Beech, D., Maloney, M., and Mendelsohn, N., Eds., "XML Schema Part 1: Structures Second Edition", W3C Recommendation, October 2004, [http://www.w3.org/TR/2004/REC-xmlschema-1-20041028/](https://go.microsoft.com/fwlink/?LinkId=90607)

[XMLSCHEMA1] Thompson, H., Beech, D., Maloney, M., and Mendelsohn, N., Eds., "XML Schema Part 1: Structures", W3C Recommendation, May 2001, [http://www.w3.org/TR/2001/REC-xmlschema-1-20010502/](https://go.microsoft.com/fwlink/?LinkId=90608)

[XMLSCHEMA2/2] Biron, P., and Malhotra, A., Eds., "XML Schema Part 2: Datatypes Second Edition", W3C Recommendation, October 2004, [http://www.w3.org/TR/2004/REC-xmlschema-2-20041028/](https://go.microsoft.com/fwlink/?LinkId=90609)

[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/](https://go.microsoft.com/fwlink/?LinkId=90610)

### Informative References

[MS-SPTWS] Microsoft Corporation, "[Service Platform Topology Web Service Protocol](%5BMS-SPTWS%5D.pdf#Section_2b42037c2f30492d9fdc0a02d85c811e)".

[RFC2818] Rescorla, E., "HTTP Over TLS", RFC 2818, May 2000, [http://www.rfc-editor.org/rfc/rfc2818.txt](https://go.microsoft.com/fwlink/?LinkId=90383)

[SOAP1.2/2] Gudgin, M., Hadley, M., Mendelsohn, N., Moreau, J., and Nielsen, H.F., "SOAP Version 1.2 Part 2: Adjuncts", W3C Recommendation, June 2003, [http://www.w3.org/TR/2003/REC-soap12-part2-20030624](https://go.microsoft.com/fwlink/?LinkId=90522)

## Overview

This protocol enables a protocol client to send usage events to the protocol server. The protocol server performs implementation specific aggregation of those events and produces historical usage information based on those events. This protocol further enables a protocol client to retrieve the aggregated usage information from the protocol server. A typical scenario for using this protocol is a reporting application that allows the users to visualize the usage of an item during its lifetime.

## Relationship to Other Protocols

This protocol uses the [**SOAP**](#gt_c1c313af-2310-4380-a6ea-c2cedc115958) message protocol for formatting request and response messages, as described in [[SOAP1.1]](https://go.microsoft.com/fwlink/?LinkId=90520), [[SOAP1.2/1]](https://go.microsoft.com/fwlink/?LinkId=90521) and [[SOAP1.2/2]](https://go.microsoft.com/fwlink/?LinkId=90522). It transmits those messages by using [**HTTP**](#gt_d72f1494-4917-4e9e-a9fd-b8f1b2758dcd), as described in [[RFC2616]](https://go.microsoft.com/fwlink/?LinkId=90372), or [**Hypertext Transfer Protocol over Secure Sockets Layer (HTTPS)**](#gt_9239bd88-9747-44a6-83a6-473f53f175a7), as described in [[RFC2818]](https://go.microsoft.com/fwlink/?LinkId=90383).

The following diagram shows the underlying messaging and transport stack used by the protocol:



Figure 1: This protocol in relation to other protocols

## Prerequisites/Preconditions

This protocol operates against a protocol server that exposes one or more endpoint URIs that are known by protocol clients. The endpoint 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]](%5BMS-SPTWS%5D.pdf#Section_2b42037c2f30492d9fdc0a02d85c811e).

The protocol client obtains the requisite ApplicationClassId and ApplicationVersion values and the endpoint 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]](%5BMS-SPSTWS%5D.pdf#Section_98b483787d1543be986fab0084887ecf).

## Applicability Statement

This protocol is intended for use by protocol clients and protocol servers that are connected by high-bandwidth, low-latency network connections.

The methods for sending data were designed to work with batches of 100 or fewer events.

## Versioning and Capability Negotiation

This document covers versioning issues in the following areas:

* **Supported Transports:** This protocol can be implemented by using transports that support sending SOAP messages, as specified in section 2.1.
* **Protocol Versions:** This protocol is not versioned.
* **Capability Negotiation:** This protocol does not support version negotiation.

## Vendor-Extensible Fields

None.

## Standards Assignments

None.

# Messages

## Transport

Protocol servers MUST support [**SOAP**](#gt_c1c313af-2310-4380-a6ea-c2cedc115958) over [**HTTP**](#gt_d72f1494-4917-4e9e-a9fd-b8f1b2758dcd), [**HTTPS**](#gt_9239bd88-9747-44a6-83a6-473f53f175a7), or [**TCP**](#gt_b08d36f6-b5c6-4ce4-8d2d-6f2ab75ea4cb).

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

Protocol messages MUST be formatted as specified in either [[SOAP1.1]](https://go.microsoft.com/fwlink/?LinkId=90520) section 4 or [[SOAP1.2/1]](https://go.microsoft.com/fwlink/?LinkId=90521) section 5. Protocol server faults MUST be returned by using HTTP status codes, as specified in [[RFC2616]](https://go.microsoft.com/fwlink/?LinkId=90372) section 10, or [**SOAP faults**](#gt_ec8728a8-1a75-426f-8767-aa1932c7c19f), as specified in [SOAP1.1] section 4.4 or [SOAP1.2/1] section 5.4.

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

This protocol can transmit an additional SOAP header, the ServiceContext header, as described in [[MS-SPSTWS]](%5BMS-SPSTWS%5D.pdf#Section_98b483787d1543be986fab0084887ecf).

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 server—for example, the SOAP format over an HTTP transport.

## Common Message Syntax

This section contains common structures used by this protocol. The syntax of the structures uses [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067), as specified in [[XMLSCHEMA1]](https://go.microsoft.com/fwlink/?LinkId=90608) and [[XMLSCHEMA2]](https://go.microsoft.com/fwlink/?LinkId=90610), and WSDL, as specified in [[WSDL]](https://go.microsoft.com/fwlink/?LinkId=90577).

### Namespaces

This specification defines and references various [**XML namespaces**](#gt_485f05b3-df3b-45ac-b8bf-d05f5d185a24) using the mechanisms specified in [[XMLNS]](https://go.microsoft.com/fwlink/?LinkId=191840). Although this specification associates a specific [**XML namespace prefix**](#gt_b9a20be7-31d9-4dcd-9cb9-ba72302857a2) 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 | http://www.microsoft.com/sharepoint/search/KnownTypes/2011/01 |  |
| q27 | http://www.microsoft.com/sharepoint/search/KnownTypes/2011/09 |  |
| q36 | http://www.microsoft.com/sharepoint/search/KnownTypes/2011/05 |  |
| ser | http://schemas.microsoft.com/2003/10/Serialization/ |  |
| soap | http://schemas.xmlsoap.org/wsdl/soap/ | [[SOAP1.1]](https://go.microsoft.com/fwlink/?LinkId=90520) |
| tns | http://tempuri.org/ |  |
| tns1 | http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Analytics |  |
| tns2 | http://schemas.microsoft.com/2003/10/Serialization/Arrays |  |
| tns3 | http://tempuri.org/Imports |  |
| wsaw | http://www.w3.org/2006/05/addressing/wsdl |  |
| wsdl | http://schemas.xmlsoap.org/wsdl/ | [[WSDL]](https://go.microsoft.com/fwlink/?LinkId=90577) |
| xs | http://www.w3.org/2001/XMLSchema | [[XMLSCHEMA1/2]](https://go.microsoft.com/fwlink/?LinkId=90607)[[XMLSCHEMA2/2]](https://go.microsoft.com/fwlink/?LinkId=90609) |

### Messages

This specification does not define any common [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions.

### Elements

This specification does not define any common [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions.

### Complex Types

The following table summarizes the set of common [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) 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 |
| --- | --- |
| **AnalyticsEventTypeDefinition** | The **AnalyticsEventTypeDefinition** complex type defines an analytics event. |
| **AnalyticsItemData** | The **AnalyticsItemData** complex type defines the analytics usage data associated with an item or [**rollup**](#gt_5e2f471f-4d9e-4978-939f-02e76ad93a51) scope. |
| **AnalyticsTenantSettingsData** | The **AnalyticsTenantSettingsData** complex type defines the analytics configuration settings for a [**tenant**](#gt_6ae78883-639e-44c6-96d7-617ef44e1b44). |
| **AnalyticsUsageEvent** | A usage event. |
| **ArrayOfAnalyticsItemData** | The **ArrayOfAnalyticsItemData** complex type defines a list of **AnalyticsItemData** elements. |
| **ArrayOfAnalyticsUsageEvent** | A list of usage events. |
| **ArrayOfint** | The **ArrayOfint** complex type defines an array of integers. |

#### AnalyticsEventTypeDefinition

**Namespace:** http://www.microsoft.com/sharepoint/search/KnownTypes/2011/01

The **AnalyticsEventTypeDefinition** complex type defines an analytics event.

1. <xs:complexType name="AnalyticsEventTypeDefinition" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Analytics" minOccurs="0" name="AggregationType" type="tns1:EventCountType"/>
4. <xs:element minOccurs="0" name="AppEventTypeId" type="ser:guid"/>
5. <xs:element minOccurs="0" name="ApplicationName" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="EventName" nillable="true" type="xs:string"/>
7. <xs:element minOccurs="0" name="EventTypeId" type="xs:int"/>
8. <xs:element xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Analytics" minOccurs="0" name="Options" type="tns1:EventOptions"/>
9. <xs:element minOccurs="0" name="RecentPopularityTimeframe" type="xs:int"/>
10. <xs:element minOccurs="0" name="RecommendationWeight" type="xs:int"/>
11. <xs:element minOccurs="0" name="RelevanceWeight" type="xs:int"/>
12. <xs:element xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Analytics" minOccurs="0" name="Rollups" type="tns1:EventRollups"/>
13. <xs:element minOccurs="0" name="TailTrimming" type="xs:int"/>
14. <xs:element minOccurs="0" name="TenantId" type="ser:guid"/>
15. </xs:sequence>
16. </xs:complexType>

**AggregationType:** The type of aggregation to use for this event type.

**AppEventTypeId:** The identifier of the application registering the event type.

**ApplicationName:** The name of the application registering the event type.

**EventName:** The human-readable name of the event type.

**EventTypeId:** The identifier of the event type.

**Options:** Additional options for this event type.

**RecentPopularityTimeframe:** The timeframe for recent popularity for the event type.

**RecommendationWeight:** The weight this event type is given when considered for calculating recommended items.

**RelevanceWeight:** The weight this event type is given when considered for calculating relevant items.

**Rollups:** The [**rollup**](#gt_5e2f471f-4d9e-4978-939f-02e76ad93a51) aggregations that can be calculated for this event type.

**TailTrimming:** The minimum number of events required to be considered at all for aggregations.

**TenantId:** The identifier of the [**tenant**](#gt_6ae78883-639e-44c6-96d7-617ef44e1b44) associated with this event type.

#### AnalyticsItemData

**Namespace:** http://www.microsoft.com/sharepoint/search/KnownTypes/2011/01

The **AnalyticsItemData** complex type defines the analytics usage data associated with an item or [**rollup**](#gt_5e2f471f-4d9e-4978-939f-02e76ad93a51) scope.

1. <xs:complexType name="AnalyticsItemData" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" name="CurrentDate" type="xs:dateTime"/>
4. <xs:element xmlns:tns2="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="DailyHits" nillable="true" type="tns2:ArrayOfint"/>
5. <xs:element xmlns:tns2="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="DailyUniqueUsers" nillable="true" type="tns2:ArrayOfint"/>
6. <xs:element minOccurs="0" name="EventType" type="xs:int"/>
7. <xs:element minOccurs="0" name="ItemId" nillable="true" type="xs:string"/>
8. <xs:element minOccurs="0" name="LastProcessingHits" type="xs:int"/>
9. <xs:element minOccurs="0" name="LastProcessingTime" type="xs:dateTime"/>
10. <xs:element minOccurs="0" name="LastProcessingUniqueUsers" type="xs:int"/>
11. <xs:element xmlns:tns2="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="MonthlyHits" nillable="true" type="tns2:ArrayOfint"/>
12. <xs:element xmlns:tns2="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="MonthlyUniqueUsers" nillable="true" type="tns2:ArrayOfint"/>
13. <xs:element minOccurs="0" name="ScopeId" nillable="true" type="ser:guid"/>
14. <xs:element minOccurs="0" name="SiteId" type="ser:guid"/>
15. <xs:element minOccurs="0" name="TenantId" type="ser:guid"/>
16. <xs:element minOccurs="0" name="TotalHits" type="xs:int"/>
17. <xs:element minOccurs="0" name="TotalUniqueUsers" type="xs:int"/>
18. </xs:sequence>
19. </xs:complexType>

**CurrentDate:** The date when the analytics usage data was retrieved.

**DailyHits:** The raw historical hit data by day for the item or rollup scope.

**DailyUniqueUsers:** The raw historical unique user data by day for the item or rollup scope.

**EventType:** The identifier of the event type.

**ItemId:** The identifier of the item.

**LastProcessingHits:** The hit count for the associated item in the last processing interval.

**LastProcessingTime:** The last time that events for the associated item were aggregated.

**LastProcessingUniqueUsers:** The unique user count for the associated item in the last processing interval.

**MonthlyHits:** The raw historical hit data by month for the item or rollup scope.

**MonthlyUniqueUsers:** The raw historical unique user data by month for the item or rollup scope.

**ScopeId:** The identifier of an application-specific rollup scope.

**SiteId:** The identifier of the [**Web site (2)**](#gt_04b6a259-c555-4695-a236-57a32087deac).

**TenantId:** The identifier of the [**tenant**](#gt_6ae78883-639e-44c6-96d7-617ef44e1b44).

**TotalHits:** The lifetime hit count.

**TotalUniqueUsers:** The lifetime unique user count.

#### AnalyticsTenantSettingsData

**Namespace:** http://www.microsoft.com/sharepoint/search/KnownTypes/2011/09

The **AnalyticsTenantSettingsData** complex type defines the analytics configuration settings for a [**tenant**](#gt_6ae78883-639e-44c6-96d7-617ef44e1b44).

1. <xs:complexType name="AnalyticsTenantSettingsData" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" name="EventFilters" nillable="true" type="xs:base64Binary"/>
4. <xs:element minOccurs="0" name="EventTypeDefinitions" nillable="true" type="xs:base64Binary"/>
5. <xs:element minOccurs="0" name="LastUpdateTime" type="xs:dateTime"/>
6. <xs:element minOccurs="0" name="Options" type="q27:AnalyticsTenantSettingOptions"/>
7. <xs:element minOccurs="0" name="TenantId" type="ser:guid"/>
8. <xs:element minOccurs="0" name="Version" type="xs:int"/>
9. </xs:sequence>
10. </xs:complexType>

**EventFilters:** A serialized collection of all event filters for this tenant.

**EventTypeDefinitions:** A serialized collection of event type definitions for this tenant.

**LastUpdateTime:** A timestamp of the most recent time the configuration settings for the tenant were updated.

**Options:** Configuration options for the tenant. This MUST be a combination of one or more of the values defined in the **AnalyticsTenantSettingOptions** simple type, as specified in Section [2.2.5.1](#Section_6452fbcd0d7448bea8ac11de10250292).

**TenantId:** The identifier of the tenant.

**Version:** The version number of the settings.

#### AnalyticsUsageEvent

**Namespace:** http://www.microsoft.com/sharepoint/search/KnownTypes/2011/01

A usage event.

1. <xs:complexType name="AnalyticsUsageEvent" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" name="CustomData" nillable="true" type="xs:string"/>
4. <xs:element minOccurs="0" name="EventTypeId" type="xs:int"/>
5. <xs:element minOccurs="0" name="ItemId" nillable="true" type="xs:string"/>
6. <xs:element minOccurs="0" name="ScopeId" type="ser:guid"/>
7. <xs:element minOccurs="0" name="SessionId" nillable="true" type="xs:string"/>
8. <xs:element minOccurs="0" name="SiteId" type="ser:guid"/>
9. <xs:element minOccurs="0" name="TenantId" type="ser:guid"/>
10. <xs:element minOccurs="0" name="TimeStamp" type="xs:dateTime"/>
11. <xs:element minOccurs="0" name="UserId" nillable="true" type="xs:string"/>
12. <xs:element minOccurs="0" name="UserIdRaw" nillable="true" type="xs:string"/>
13. <xs:element minOccurs="0" name="Weight" type="xs:int"/>
14. </xs:sequence>
15. </xs:complexType>

**CustomData:** Reserved. MUST be NULL.

**EventTypeId:** The identifier of the event type of this event.

**ItemId:** The identifier of the item associated with this event.

**ScopeId:** The identifier of an application-specific [**rollup**](#gt_5e2f471f-4d9e-4978-939f-02e76ad93a51) scope.

**SessionId:** The identifier of the user session.

**SiteId:** The identifier for the [**Web site (2)**](#gt_04b6a259-c555-4695-a236-57a32087deac).

**TenantId:** The identifier for the [**tenant**](#gt_6ae78883-639e-44c6-96d7-617ef44e1b44).

**TimeStamp:** The timestamp when the event occurred.

**UserId:** The identifier of the user that triggered the associated event.

**UserIdRaw:** The non-hashed identifier of the user that triggered the associated event.

**Weight:** This is reserved and SHOULD be 1, but it MAY be used to indicate the number of times this event occurred repeatedly.

#### ArrayOfAnalyticsItemData

**Namespace:** http://www.microsoft.com/sharepoint/search/KnownTypes/2011/01

The **ArrayOfAnalyticsItemData** complex type defines a list of **AnalyticsItemData** elements.

1. <xs:complexType name="ArrayOfAnalyticsItemData" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" maxOccurs="unbounded" name="AnalyticsItemData" nillable="true" type="q1:AnalyticsItemData"/>
4. </xs:sequence>
5. </xs:complexType>

**AnalyticsItemData:** Analytics usage data associated with an item or [**rollup**](#gt_5e2f471f-4d9e-4978-939f-02e76ad93a51) scope.

#### ArrayOfAnalyticsUsageEvent

**Namespace:** http://www.microsoft.com/sharepoint/search/KnownTypes/2011/01

A list of usage events.

1. <xs:complexType name="ArrayOfAnalyticsUsageEvent" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" maxOccurs="unbounded" name="AnalyticsUsageEvent" nillable="true" type="q1:AnalyticsUsageEvent"/>
4. </xs:sequence>
5. </xs:complexType>

**AnalyticsUsageEvent:** A usage event.

#### ArrayOfint

**Namespace:** http://schemas.microsoft.com/2003/10/Serialization/Arrays

The **ArrayOfint** complex type defines an array of integers.

1. <xs:complexType name="ArrayOfint" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" maxOccurs="unbounded" name="int" type="xs:int"/>
4. </xs:sequence>
5. </xs:complexType>

**int:** An integer.

### Simple Types

The following table summarizes the set of common [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) 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 |
| --- | --- |
| **AnalyticsTenantSettingOptions** | The **AnalyticsTenantSettingOptions** simple type defines options for tenant settings. |
| **char** | The **char** simple type represents a [**Unicode**](#gt_c305d0ab-8b94-461a-bd76-13b40cb8c4d8) character. |
| **duration** | The **duration** simple type specifies the time interval or duration of time measured as positive or negative number of days, hours, minutes, seconds and fractions of a second. |
| **EventCountType** | The **EventCountType** simple type defines the type of aggregation for an event type. |
| **EventOptions** | The **EventOptions** simple type defines additional options for an event type. |
| **EventRollups** | The **EventRollups** simple type defines the [**rollup**](#gt_5e2f471f-4d9e-4978-939f-02e76ad93a51) aggregations that can be calculated. |
| **guid** | The **guid** simple type contains an identifier that is globally unique. |

#### AnalyticsTenantSettingOptions

**Namespace:** http://www.microsoft.com/sharepoint/search/KnownTypes/2011/09

The **AnalyticsTenantSettingOptions** simple type defines options for tenant settings.

The **AnalyticsTenantSettingOptions** MUST be a combination of one or more of the values in the following table:

| Value | Meaning |
| --- | --- |
| None | The Analytics Tenant Setting is not specified. |
| AnalyticsDisabled | The Analytics Tenant Setting is disabled. |
| DoNotHashUserName | The Analytics Tenant Setting does not hash user name. |

1. <xs:simpleType name="AnalyticsTenantSettingOptions" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:list>
3. <xs:simpleType>
4. <xs:restriction base="xs:string"/>
5. </xs:simpleType>
6. </xs:list>
7. </xs:simpleType>

#### char

**Namespace:** http://schemas.microsoft.com/2003/10/Serialization/

The **char** simple type represents a [**Unicode**](#gt_c305d0ab-8b94-461a-bd76-13b40cb8c4d8) character.

1. <xs:simpleType name="char" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:restriction base="xs:int"/>
3. </xs:simpleType>

#### duration

**Namespace:** http://schemas.microsoft.com/2003/10/Serialization/

The **duration** simple type specifies the time interval or duration of time measured as positive or negative number of days, hours, minutes, seconds and fractions of a second.

1. <xs:simpleType name="duration" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:restriction base="xs:duration">
3. <xs:pattern value="\-?P(\d\*D)?(T(\d\*H)?(\d\*M)?(\d\*(\.\d\*)?S)?)?"/>
4. <xs:minInclusive value="-P10675199DT2H48M5.4775808S"/>
5. <xs:maxInclusive value="P10675199DT2H48M5.4775807S"/>
6. </xs:restriction>
7. </xs:simpleType>

#### EventCountType

**Namespace:** http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Analytics

The **EventCountType** simple type defines the type of aggregation for an event type.

1. <xs:simpleType name="EventCountType" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:list>
3. <xs:simpleType>
4. <xs:restriction base="xs:string">
5. <xs:enumeration value="Count"/>
6. <xs:enumeration value="UniqueUsers"/>
7. </xs:restriction>
8. </xs:simpleType>
9. </xs:list>
10. </xs:simpleType>

The following table specifies the allowable values for the **EventCountType** simple type.

| Value | Meaning |
| --- | --- |
| Count | Aggregate by raw count. |
| UniqueUsers | Aggregate by the number of unique users. |

#### EventOptions

**Namespace:** http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Analytics

The **EventOptions** simple type defines additional options for an event type.

1. <xs:simpleType name="EventOptions" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:list>
3. <xs:simpleType>
4. <xs:restriction base="xs:string">
5. <xs:enumeration value="None"/>
6. <xs:enumeration value="AllowAnonymousWrite"/>
7. </xs:restriction>
8. </xs:simpleType>
9. </xs:list>
10. </xs:simpleType>

The following table specifies the allowable values for the **EventOptions** simple type.

| Value | Meaning |
| --- | --- |
| None | No options are specified. |
| AllowAnonymousWrite | Allow anonymous users to generate events of this event type. |

#### EventRollups

**Namespace:** http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Analytics

The **EventRollups** simple type defines the [**rollup**](#gt_5e2f471f-4d9e-4978-939f-02e76ad93a51) aggregations that can be calculated.

1. <xs:simpleType name="EventRollups" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:list>
3. <xs:simpleType>
4. <xs:restriction base="xs:string">
5. <xs:enumeration value="SiteSubscriptionId"/>
6. <xs:enumeration value="SiteId"/>
7. <xs:enumeration value="ScopeId"/>
8. </xs:restriction>
9. </xs:simpleType>
10. </xs:list>
11. </xs:simpleType>

The following table specifies the allowable values for the **EventRollups** simple type.

| Value | Meaning |
| --- | --- |
| SiteSubscriptionId | Site-subscription-level aggregation |
| SiteId | Site-level aggregation |
| ScopeId | Scope-level aggregation |

#### guid

**Namespace:** http://schemas.microsoft.com/2003/10/Serialization/

The **guid** simple type contains an identifier that is globally unique.

1. <xs:simpleType name="guid" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:restriction base="xs:string">
3. <xs:pattern value="[\da-fA-F]{8}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{12}"/>
4. </xs:restriction>
5. </xs:simpleType>

### Attributes

This specification does not define any common [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) attribute definitions.

### Groups

This specification does not define any common [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) group definitions.

### Attribute Groups

This specification does not define any common [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) attribute group definitions.

# Protocol Details

In the following sections, the schema definition might be less restrictive than the processing rules imposed by the protocol. The WSDL in the 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 protocol 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**, **present** and **not null**.

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 made by the higher-layer protocol or application are passed directly to the transport and the results returned by the transport are passed directly back to the higher-layer protocol or application.

Except where specified, protocol clients SHOULD interpret HTTP status codes that are returned by the protocol server as specified in [[RFC2616]](https://go.microsoft.com/fwlink/?LinkId=90372), 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 clients of authorization faults by using either HTTP status codes or SOAP faults, as specified previously in this section.

## Server Details

### 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 server receives usage events, which represent actions performed on the protocol client; for example, a view event on a [**Web site (2)**](#gt_04b6a259-c555-4695-a236-57a32087deac). An event includes, among other things, an event type and an associated item.

The protocol server maintains an event store, which provides persistent storage for events received by the protocol server.

The protocol server maintains various configuration settings for each [**tenant**](#gt_6ae78883-639e-44c6-96d7-617ef44e1b44). These settings include, among other things, a collection of definitions of event types. Some of the event types are predefined by the protocol server, such as Views; whereas other event types are registered for use by specific applications on the protocol client.

The protocol server aggregates the events in the event store and stores the results of the processing in an aggregation store. The aggregation store keeps historic aggregated count of events of each event type for each item, as well as recommendations (related items), it determines based on the usage events.

The protocol server also stores historic aggregated counts of search-related events for [**search queries**](#gt_82b8412f-e1c7-4354-8d4a-ea10ec87fc00), such as how many times a search query was issued.

The protocol server also aggregates usage data by combining the events for multiple items from the same [**rollup**](#gt_5e2f471f-4d9e-4978-939f-02e76ad93a51) scope, for example, items from the same Web site (2). Rollup scopes can be global, tenant, site, or specified by the application logging the event.

### Timers

None.

### Initialization

None.

### Message Processing Events and Sequencing Rules

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

| Operation | Description |
| --- | --- |
| **DeleteAllUsageDataForTenant** | Initiates the deletion of aggregated data for a specified tenant. |
| **DeleteCustomEventUsageDataForSite** | Initiates the deletion of aggregated data for a specified [**Web site (2)**](#gt_04b6a259-c555-4695-a236-57a32087deac) for an application-specific event type. |
| **DeleteCustomEventUsageDataForTenant** | Initiates the deletion of aggregated data for a specified [**tenant**](#gt_6ae78883-639e-44c6-96d7-617ef44e1b44) for an application-specific event type. |
| **DeleteRecommendationsDataForTenant** | Initiates the deletion of aggregated recommendations for the specified tenant. |
| **DeleteStandardEventUsageDataForSite** | Initiates the deletion of aggregated data for a specified Web site (2) for a predefined event type. |
| **DeleteStandardEventUsageDataForTenant** | Initiates the deletion of aggregated data for a specified tenant for a predefined event type. |
| **GetAnalyticsEventTypeDefinition** | Retrieves the definition of an event type for the specified tenant. |
| **GetAnalyticsEventTypeDefinitions** | Retrieves a filtered set of definitions of event types for the specified tenant. |
| **GetAnalyticsItemData** | Retrieves aggregated usage data for a specified item for a specified event type.  |
| **GetAnalyticsItemsData** | Retrieves aggregated usage data for multiple specified items for a specified event type.  |
| **GetAnalyticsTenantConfiguration** | Retrieves the configuration settings for a specified tenant. |
| **GetGlobalAnalyticsItemDataBatch** | Retrieves aggregated usage data for multiple items for a specified event type and a specified scope that have been processed since a specified time. |
| **GetQueryTermsForUser** | Retrieves [**search queries**](#gt_82b8412f-e1c7-4354-8d4a-ea10ec87fc00) for a specified user. |
| **GetRawAnalyticsTenantSettingsBatch** | Retrieves the configuration settings for multiple tenants. |
| **GetRawAnayticsTenantSettings** | Retrieves the configuration settings for a specified tenant. |
| **GetRollupAnalyticsItemData** | Retrieves aggregated usage data for a [**rollup**](#gt_5e2f471f-4d9e-4978-939f-02e76ad93a51) scope for events of a specified event type. |
| **GetSearchReport** | Retrieves the aggregated top occurrences for the specified search event type within a scope. |
| **GetTenantAnalyticsItemData** | Retrieves aggregated usage data for a tenant for events of a specified event type. |
| **SendAnalyticsUsageEvents** | Sends usage events to the protocol server.  |
| **SendAnalyticsUsageEventsToEventStore** | Sends a list of analytics usage events into the event store. |
| **UpsertRawAnalyticsTenantSettings** | Updates the configuration settings for a specified tenant. |

#### DeleteAllUsageDataForTenant

Initiates the deletion of aggregated data for a specified tenant.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **DeleteAllUsageDataForTenant** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="DeleteAllUsageDataForTenant" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/DeleteAllUsageDataForTenant" message="tns:IAnalyticsServiceApplication\_DeleteAllUsageDataForTenant\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/DeleteAllUsageDataForTenantResponse" message="tns:IAnalyticsServiceApplication\_DeleteAllUsageDataForTenant\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IAnalyticsServiceApplication\_DeleteAllUsageDataForTenant\_InputMessage** [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) and the protocol server responds with an **IAnalyticsServiceApplication\_DeleteAllUsageDataForTenant\_OutputMessage** WSDL message as follows:

* The protocol server initiates the deletion of aggregated data for the specified **tenantId**. For example, the protocol server might synchronously delete the relevant aggregated data, or it might queue up the command and delete the relevant aggregated data as part of a periodic aggregation.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IAnalyticsServiceApplication\_DeleteAllUsageDataForTenant\_InputMessage** | The request WSDL message for the **DeleteAllUsageDataForTenant** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IAnalyticsServiceApplication\_DeleteAllUsageDataForTenant\_OutputMessage** | The response WSDL message for the **DeleteAllUsageDataForTenant** WSDL operation. |

###### IAnalyticsServiceApplication\_DeleteAllUsageDataForTenant\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **DeleteAllUsageDataForTenant** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://tempuri.org/IAnalyticsServiceApplication/DeleteAllUsageDataForTenant

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **DeleteAllUsageDataForTenant** element.

###### IAnalyticsServiceApplication\_DeleteAllUsageDataForTenant\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **DeleteAllUsageDataForTenant** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **DeleteAllUsageDataForTenantResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **DeleteAllUsageDataForTenant** | The input data for the **DeleteAllUsageDataForTenant** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **DeleteAllUsageDataForTenantResponse** | The result data for the **DeleteAllUsageDataForTenant** WSDL operation. |

###### DeleteAllUsageDataForTenant

The **DeleteAllUsageDataForTenant** element specifies the input data for the **DeleteAllUsageDataForTenant** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="DeleteAllUsageDataForTenant" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="tenantId" type="ser:guid"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**tenantId:** The identifier of the [**tenant**](#gt_6ae78883-639e-44c6-96d7-617ef44e1b44).

###### DeleteAllUsageDataForTenantResponse

The **DeleteAllUsageDataForTenantResponse** element specifies the result data for the **DeleteAllUsageDataForTenant** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="DeleteAllUsageDataForTenantResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence/>
4. </xs:complexType>
5. </xs:element>

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### DeleteCustomEventUsageDataForSite

Initiates the deletion of aggregated data for a specified [**Web site (2)**](#gt_04b6a259-c555-4695-a236-57a32087deac) for an application-specific event type.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **DeleteCustomEventUsageDataForSite** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="DeleteCustomEventUsageDataForSite" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/DeleteCustomEventUsageDataForSite" message="tns:IAnalyticsServiceApplication\_DeleteCustomEventUsageDataForSite\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/DeleteCustomEventUsageDataForSiteResponse" message="tns:IAnalyticsServiceApplication\_DeleteCustomEventUsageDataForSite\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IAnalyticsServiceApplication\_DeleteCustomEventUsageDataForSite\_InputMessage** [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb), and the protocol server responds with an **IAnalyticsServiceApplication\_DeleteCustomEventUsageDataForSite\_OutputMessage** WSDL message as follows:

* The protocol server initiates the deletion of aggregated data on the Web site (2) corresponding to the specified **tenantId** and **siteId** for the application-specific event type corresponding to the specified **appEventTypeId**. For example, the protocol server might synchronously delete the relevant aggregated data, or it might queue up the command and delete the relevant aggregated data as part of a periodic aggregation.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IAnalyticsServiceApplication\_DeleteCustomEventUsageDataForSite\_InputMessage** | The request WSDL message for the **DeleteCustomEventUsageDataForSite** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IAnalyticsServiceApplication\_DeleteCustomEventUsageDataForSite\_OutputMessage** | The response WSDL message for the **DeleteCustomEventUsageDataForSite** WSDL operation. |

###### IAnalyticsServiceApplication\_DeleteCustomEventUsageDataForSite\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **DeleteCustomEventUsageDataForSite** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://tempuri.org/IAnalyticsServiceApplication/DeleteCustomEventUsageDataForSite

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **DeleteCustomEventUsageDataForSite** element.

###### IAnalyticsServiceApplication\_DeleteCustomEventUsageDataForSite\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **DeleteCustomEventUsageDataForSite** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **DeleteCustomEventUsageDataForSiteResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **DeleteCustomEventUsageDataForSite** | The input data for the **DeleteCustomEventUsageDataForSite** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **DeleteCustomEventUsageDataForSiteResponse** | The result data for the **DeleteCustomEventUsageDataForSite** WSDL operation. |

###### DeleteCustomEventUsageDataForSite

The **DeleteCustomEventUsageDataForSite** element specifies the input data for the **DeleteCustomEventUsageDataForSite** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="DeleteCustomEventUsageDataForSite" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="tenantId" type="ser:guid"/>
5. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="siteId" type="ser:guid"/>
6. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="appEventTypeId" type="ser:guid"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**tenantId:** The identifier of the [**tenant**](#gt_6ae78883-639e-44c6-96d7-617ef44e1b44).

**siteId:** The identifier of the [**Web site (2)**](#gt_04b6a259-c555-4695-a236-57a32087deac).

**appEventTypeId:** The identifier of the application-specific event type. The identifier MUST correspond to an application-specific event type that is registered for this tenant.

###### DeleteCustomEventUsageDataForSiteResponse

The **DeleteCustomEventUsageDataForSiteResponse** element specifies the result data for the **DeleteCustomEventUsageDataForSite** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="DeleteCustomEventUsageDataForSiteResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence/>
4. </xs:complexType>
5. </xs:element>

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### DeleteCustomEventUsageDataForTenant

Initiates the deletion of aggregated data for a specified [**tenant**](#gt_6ae78883-639e-44c6-96d7-617ef44e1b44) for an application-specific event type.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **DeleteCustomEventUsageDataForTenant** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="DeleteCustomEventUsageDataForTenant" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/DeleteCustomEventUsageDataForTenant" message="tns:IAnalyticsServiceApplication\_DeleteCustomEventUsageDataForTenant\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/DeleteCustomEventUsageDataForTenantResponse" message="tns:IAnalyticsServiceApplication\_DeleteCustomEventUsageDataForTenant\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IAnalyticsServiceApplication\_DeleteCustomEventUsageDataForTenant\_InputMessage** [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb), and the protocol server responds with an **IAnalyticsServiceApplication\_DeleteCustomEventUsageDataForTenant\_OutputMessage** WSDL message as follows:

* The protocol server initiates the deletion of aggregated data on the tenant corresponding to the specified **tenantId** for the application-specific event type corresponding to the specified **appEventTypeId**. For example, the protocol server might synchronously delete the relevant aggregated data, or it might queue up the command and delete the relevant aggregated data as part of a periodic aggregation.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IAnalyticsServiceApplication\_DeleteCustomEventUsageDataForTenant\_InputMessage** | The request WSDL message for the **DeleteCustomEventUsageDataForTenant** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IAnalyticsServiceApplication\_DeleteCustomEventUsageDataForTenant\_OutputMessage** | The response WSDL message for the **DeleteCustomEventUsageDataForTenant** WSDL operation. |

###### IAnalyticsServiceApplication\_DeleteCustomEventUsageDataForTenant\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **DeleteCustomEventUsageDataForTenant** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://tempuri.org/IAnalyticsServiceApplication/DeleteCustomEventUsageDataForTenant

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **DeleteCustomEventUsageDataForTenant** element.

###### IAnalyticsServiceApplication\_DeleteCustomEventUsageDataForTenant\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **DeleteCustomEventUsageDataForTenant** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **DeleteCustomEventUsageDataForTenantResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **DeleteCustomEventUsageDataForTenant** | The input data for the **DeleteCustomEventUsageDataForTenant** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **DeleteCustomEventUsageDataForTenantResponse** | The result data for the **DeleteCustomEventUsageDataForTenant** WSDL operation. |

###### DeleteCustomEventUsageDataForTenant

The **DeleteCustomEventUsageDataForTenant** element specifies the input data for the **DeleteCustomEventUsageDataForTenant** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="DeleteCustomEventUsageDataForTenant" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="tenantId" type="ser:guid"/>
5. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="appEventTypeId" type="ser:guid"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**tenantId:** The identifier of the [**tenant**](#gt_6ae78883-639e-44c6-96d7-617ef44e1b44).

**appEventTypeId:**  The identifier of the application-specific event type. The identifier MUST correspond to an application-specific event type that is registered for this tenant.

###### DeleteCustomEventUsageDataForTenantResponse

The **DeleteCustomEventUsageDataForTenantResponse** element specifies the result data for the **DeleteCustomEventUsageDataForTenant** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="DeleteCustomEventUsageDataForTenantResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence/>
4. </xs:complexType>
5. </xs:element>

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### DeleteRecommendationsDataForTenant

Initiates the deletion of aggregated recommendations for the specified [**tenant**](#gt_6ae78883-639e-44c6-96d7-617ef44e1b44).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **DeleteRecommendationsDataForTenant** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="DeleteRecommendationsDataForTenant" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/DeleteRecommendationsDataForTenant" message="tns:IAnalyticsServiceApplication\_DeleteRecommendationsDataForTenant\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/DeleteRecommendationsDataForTenantResponse" message="tns:IAnalyticsServiceApplication\_DeleteRecommendationsDataForTenant\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IAnalyticsServiceApplication\_DeleteRecommendationsDataForTenant\_InputMessage** [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb), and the protocol server responds with an **IAnalyticsServiceApplication\_DeleteRecommendationsDataForTenant\_OutputMessage** WSDL message as follows:

* The protocol server initiates the deletion of aggregated recommendations for the tenant corresponding to the specified **tenantId**. For example, the protocol server might synchronously delete the relevant aggregated data, or it might queue up the command and delete the relevant aggregated data as part of a periodic aggregation.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IAnalyticsServiceApplication\_DeleteRecommendationsDataForTenant\_InputMessage** | The request WSDL message for the **DeleteRecommendationsDataForTenant** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IAnalyticsServiceApplication\_DeleteRecommendationsDataForTenant\_OutputMessage** | The response WSDL message for the **DeleteRecommendationsDataForTenant** WSDL operation. |

###### IAnalyticsServiceApplication\_DeleteRecommendationsDataForTenant\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **DeleteRecommendationsDataForTenant** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://tempuri.org/IAnalyticsServiceApplication/DeleteRecommendationsDataForTenant

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **DeleteRecommendationsDataForTenant** element.

###### IAnalyticsServiceApplication\_DeleteRecommendationsDataForTenant\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **DeleteRecommendationsDataForTenant** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **DeleteRecommendationsDataForTenantResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **DeleteRecommendationsDataForTenant** | The input data for the **DeleteRecommendationsDataForTenant** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **DeleteRecommendationsDataForTenantResponse** | The result data for the **DeleteRecommendationsDataForTenant** WSDL operation. |

###### DeleteRecommendationsDataForTenant

The **DeleteRecommendationsDataForTenant** element specifies the input data for the **DeleteRecommendationsDataForTenant** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="DeleteRecommendationsDataForTenant" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="tenantId" type="ser:guid"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**tenantId:** The identifier of the [**tenant**](#gt_6ae78883-639e-44c6-96d7-617ef44e1b44).

###### DeleteRecommendationsDataForTenantResponse

The **DeleteRecommendationsDataForTenantResponse** element specifies the result data for the **DeleteRecommendationsDataForTenant** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="DeleteRecommendationsDataForTenantResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence/>
4. </xs:complexType>
5. </xs:element>

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### DeleteStandardEventUsageDataForSite

Initiates the deletion of aggregated data for a specified [**Web site (2)**](#gt_04b6a259-c555-4695-a236-57a32087deac) for a predefined event type.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **DeleteStandardEventUsageDataForSite** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="DeleteStandardEventUsageDataForSite" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/DeleteStandardEventUsageDataForSite" message="tns:IAnalyticsServiceApplication\_DeleteStandardEventUsageDataForSite\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/DeleteStandardEventUsageDataForSiteResponse" message="tns:IAnalyticsServiceApplication\_DeleteStandardEventUsageDataForSite\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IAnalyticsServiceApplication\_DeleteStandardEventUsageDataForSite\_InputMessage** [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb), and the protocol server responds with an **IAnalyticsServiceApplication\_DeleteStandardEventUsageDataForSite\_OutputMessage** WSDL message as follows:

* The protocol server initiates the deletion of aggregated data for the Web site (2) corresponding to the specified **tenantId** and **siteId** for the predefined event type corresponding to the specified **eventType**. For example, the protocol server might synchronously delete the relevant aggregated data, or it might queue up the command and delete the relevant aggregated data as part of a periodic aggregation.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IAnalyticsServiceApplication\_DeleteStandardEventUsageDataForSite\_InputMessage** | The request WSDL message for the **DeleteStandardEventUsageDataForSite** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IAnalyticsServiceApplication\_DeleteStandardEventUsageDataForSite\_OutputMessage** | The response WSDL message for the **DeleteStandardEventUsageDataForSite** WSDL operation. |

###### IAnalyticsServiceApplication\_DeleteStandardEventUsageDataForSite\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **DeleteStandardEventUsageDataForSite** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://tempuri.org/IAnalyticsServiceApplication/DeleteStandardEventUsageDataForSite

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **DeleteStandardEventUsageDataForSite** element.

###### IAnalyticsServiceApplication\_DeleteStandardEventUsageDataForSite\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **DeleteStandardEventUsageDataForSite** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **DeleteStandardEventUsageDataForSiteResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **DeleteStandardEventUsageDataForSite** | The input data for the **DeleteStandardEventUsageDataForSite** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **DeleteStandardEventUsageDataForSiteResponse** | The result data for the **DeleteStandardEventUsageDataForSite** WSDL operation. |

###### DeleteStandardEventUsageDataForSite

The **DeleteStandardEventUsageDataForSite** element specifies the input data for the **DeleteStandardEventUsageDataForSite** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="DeleteStandardEventUsageDataForSite" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="tenantId" type="ser:guid"/>
5. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="siteId" type="ser:guid"/>
6. <xs:element minOccurs="0" name="eventType" type="xs:int"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**tenantId:** The identifier of the [**tenant**](#gt_6ae78883-639e-44c6-96d7-617ef44e1b44).

**siteId:** The identifier of the [**Web site (2)**](#gt_04b6a259-c555-4695-a236-57a32087deac).

**eventType:** The identifier of the event type. The identifier MUST correspond to a predefined event type.

###### DeleteStandardEventUsageDataForSiteResponse

The **DeleteStandardEventUsageDataForSiteResponse** element specifies the result data for the **DeleteStandardEventUsageDataForSite** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="DeleteStandardEventUsageDataForSiteResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence/>
4. </xs:complexType>
5. </xs:element>

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### DeleteStandardEventUsageDataForTenant

Initiates the deletion of aggregated data for a specified [**tenant**](#gt_6ae78883-639e-44c6-96d7-617ef44e1b44) for a predefined event type.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **DeleteStandardEventUsageDataForTenant** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="DeleteStandardEventUsageDataForTenant" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/DeleteStandardEventUsageDataForTenant" message="tns:IAnalyticsServiceApplication\_DeleteStandardEventUsageDataForTenant\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/DeleteStandardEventUsageDataForTenantResponse" message="tns:IAnalyticsServiceApplication\_DeleteStandardEventUsageDataForTenant\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IAnalyticsServiceApplication\_DeleteStandardEventUsageDataForTenant\_InputMessage** [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb), and the protocol server responds with an **IAnalyticsServiceApplication\_DeleteStandardEventUsageDataForTenant\_OutputMessage** WSDL message as follows:

* The protocol server initiates the deletion of aggregated data for the tenant corresponding to the specified **tenantId** for the predefined event type corresponding to the specified **eventType**. For example, the protocol server might synchronously delete the relevant aggregated data, or it might queue up the command and delete the relevant aggregated data as part of a periodic aggregation.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IAnalyticsServiceApplication\_DeleteStandardEventUsageDataForTenant\_InputMessage** | The request WSDL message for the **DeleteStandardEventUsageDataForTenant** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IAnalyticsServiceApplication\_DeleteStandardEventUsageDataForTenant\_OutputMessage** | The response WSDL message for the **DeleteStandardEventUsageDataForTenant** WSDL operation. |

###### IAnalyticsServiceApplication\_DeleteStandardEventUsageDataForTenant\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **DeleteStandardEventUsageDataForTenant** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://tempuri.org/IAnalyticsServiceApplication/DeleteStandardEventUsageDataForTenant

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **DeleteStandardEventUsageDataForTenant** element.

###### IAnalyticsServiceApplication\_DeleteStandardEventUsageDataForTenant\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **DeleteStandardEventUsageDataForTenant** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **DeleteStandardEventUsageDataForTenantResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **DeleteStandardEventUsageDataForTenant** | The input data for the **DeleteStandardEventUsageDataForTenant** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **DeleteStandardEventUsageDataForTenantResponse** | The result data for the **DeleteStandardEventUsageDataForTenant** WSDL operation. |

###### DeleteStandardEventUsageDataForTenant

The **DeleteStandardEventUsageDataForTenant** element specifies the input data for the **DeleteStandardEventUsageDataForTenant** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="DeleteStandardEventUsageDataForTenant" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="tenantId" type="ser:guid"/>
5. <xs:element minOccurs="0" name="eventType" type="xs:int"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**tenantId:** The identifier of the [**tenant**](#gt_6ae78883-639e-44c6-96d7-617ef44e1b44).

**eventType:**  The identifier of the event type. The identifier MUST correspond to a predefined event type.

###### DeleteStandardEventUsageDataForTenantResponse

The **DeleteStandardEventUsageDataForTenantResponse** element specifies the result data for the **DeleteStandardEventUsageDataForTenant** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="DeleteStandardEventUsageDataForTenantResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence/>
4. </xs:complexType>
5. </xs:element>

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetAnalyticsEventTypeDefinition

Retrieves the definition of an event type for the specified [**tenant**](#gt_6ae78883-639e-44c6-96d7-617ef44e1b44).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetAnalyticsEventTypeDefinition** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetAnalyticsEventTypeDefinition" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/GetAnalyticsEventTypeDefinition" message="tns:IAnalyticsServiceApplication\_GetAnalyticsEventTypeDefinition\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/GetAnalyticsEventTypeDefinitionResponse" message="tns:IAnalyticsServiceApplication\_GetAnalyticsEventTypeDefinition\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IAnalyticsServiceApplication\_GetAnalyticsEventTypeDefinition\_InputMessage** [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb), and the protocol server responds with an **IAnalyticsServiceApplication\_GetAnalyticsEventTypeDefinition\_OutputMessage** WSDL message as follows:

* If the **eventType** corresponds to a predefined event type, the protocol server returns the definition of that event type.
* If the **eventType** corresponds to an application-specific event type that is registered for the tenant, the protocol server returns the definition of that event type.
* Otherwise, the protocol server returns a SOAP exception.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IAnalyticsServiceApplication\_GetAnalyticsEventTypeDefinition\_InputMessage** | The request WSDL message for the **GetAnalyticsEventTypeDefinition** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IAnalyticsServiceApplication\_GetAnalyticsEventTypeDefinition\_OutputMessage** | The response WSDL message for the **GetAnalyticsEventTypeDefinition** WSDL operation. |

###### IAnalyticsServiceApplication\_GetAnalyticsEventTypeDefinition\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetAnalyticsEventTypeDefinition** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://tempuri.org/IAnalyticsServiceApplication/GetAnalyticsEventTypeDefinition

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetAnalyticsEventTypeDefinition** element.

###### IAnalyticsServiceApplication\_GetAnalyticsEventTypeDefinition\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetAnalyticsEventTypeDefinition** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetAnalyticsEventTypeDefinitionResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetAnalyticsEventTypeDefinition** | The input data for the **GetAnalyticsEventTypeDefinition** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetAnalyticsEventTypeDefinitionResponse** | The result data for the **GetAnalyticsEventTypeDefinition** WSDL operation. |

###### GetAnalyticsEventTypeDefinition

The **GetAnalyticsEventTypeDefinition** element specifies the input data for the **GetAnalyticsEventTypeDefinition** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetAnalyticsEventTypeDefinition" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="tenantId" type="ser:guid"/>
5. <xs:element minOccurs="0" name="eventType" type="xs:int"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**tenantId:** The identifier of the [**tenant**](#gt_6ae78883-639e-44c6-96d7-617ef44e1b44).

**eventType:** The identifier of the event type.

###### GetAnalyticsEventTypeDefinitionResponse

The **GetAnalyticsEventTypeDefinitionResponse** element specifies the result data for the **GetAnalyticsEventTypeDefinition** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetAnalyticsEventTypeDefinitionResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q1="http://www.microsoft.com/sharepoint/search/KnownTypes/2011/01" minOccurs="0" name="GetAnalyticsEventTypeDefinitionResult" nillable="true" type="q1:AnalyticsEventTypeDefinition"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetAnalyticsEventTypeDefinitionResult:** The definition of the event type.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetAnalyticsEventTypeDefinitions

Retrieves a filtered set of definitions of event types for the specified [**tenant**](#gt_6ae78883-639e-44c6-96d7-617ef44e1b44).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetAnalyticsEventTypeDefinitions** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetAnalyticsEventTypeDefinitions" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/GetAnalyticsEventTypeDefinitions" message="tns:IAnalyticsServiceApplication\_GetAnalyticsEventTypeDefinitions\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/GetAnalyticsEventTypeDefinitionsResponse" message="tns:IAnalyticsServiceApplication\_GetAnalyticsEventTypeDefinitions\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IAnalyticsServiceApplication\_GetAnalyticsEventTypeDefinitions\_InputMessage** [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb), and the protocol server responds with an **.\_OutputMessage** WSDL message as follows:

* If the **filter** includes predefined event types, the protocol server returns the definitions of the predefined event type.
* If the **filter** includes application-specific event types, the protocol server returns the definition of any application-specific event types that are registered for the tenant.
* If the **filter** includes additional predefined event types, the protocol server returns the definition the additional predefined event types.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IAnalyticsServiceApplication\_GetAnalyticsEventTypeDefinitions\_InputMessage** | The request WSDL message for the **GetAnalyticsEventTypeDefinitions** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IAnalyticsServiceApplication\_GetAnalyticsEventTypeDefinitions\_OutputMessage** | The response WSDL message for the **GetAnalyticsEventTypeDefinitions** WSDL operation. |

###### IAnalyticsServiceApplication\_GetAnalyticsEventTypeDefinitions\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetAnalyticsEventTypeDefinitions** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://tempuri.org/IAnalyticsServiceApplication/GetAnalyticsEventTypeDefinitions

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetAnalyticsEventTypeDefinitions** element.

###### IAnalyticsServiceApplication\_GetAnalyticsEventTypeDefinitions\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetAnalyticsEventTypeDefinitions** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetAnalyticsEventTypeDefinitionsResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetAnalyticsEventTypeDefinitions** | The input data for the **GetAnalyticsEventTypeDefinitions** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetAnalyticsEventTypeDefinitionsResponse** | The result data for the **GetAnalyticsEventTypeDefinitions** WSDL operation. |

###### GetAnalyticsEventTypeDefinitions

The **GetAnalyticsEventTypeDefinitions** element specifies the input data for the **GetAnalyticsEventTypeDefinitions** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetAnalyticsEventTypeDefinitions" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="tenantId" type="ser:guid"/>
5. <xs:element xmlns:q36="http://www.microsoft.com/sharepoint/search/KnownTypes/2011/05" minOccurs="0" name="filter" type="q36:AnalyticsEventTypes"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**tenantId:** The identifier of the [**tenant**](#gt_6ae78883-639e-44c6-96d7-617ef44e1b44).

**filter:** The filter of which definitions of event types to retrieve.

###### GetAnalyticsEventTypeDefinitionsResponse

The **GetAnalyticsEventTypeDefinitionsResponse** element specifies the result data for the **GetAnalyticsEventTypeDefinitions** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetAnalyticsEventTypeDefinitionsResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q1="http://www.microsoft.com/sharepoint/search/KnownTypes/2011/01" minOccurs="0" name="GetAnalyticsEventTypeDefinitionsResult" nillable="true" type="q1:ArrayOfAnalyticsEventTypeDefinition"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetAnalyticsEventTypeDefinitionsResult:** A list of definitions of event types.

##### Complex Types

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) complex type definitions that are specific to this operation.

| Complex type | Description |
| --- | --- |
| **ArrayOfAnalyticsEventTypeDefinition** | A list of type AnalyticsEventTypeDefinition. |

###### ArrayOfAnalyticsEventTypeDefinition

**Namespace:** http://www.microsoft.com/sharepoint/search/KnownTypes/2011/01

A list of definitions of event types.

1. <xs:complexType name="ArrayOfAnalyticsEventTypeDefinition" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" maxOccurs="unbounded" name="AnalyticsEventTypeDefinition" nillable="true" type="q1:AnalyticsEventTypeDefinition"/>
4. </xs:sequence>
5. </xs:complexType>

**AnalyticsEventTypeDefinition:** The definition of an event type.

##### Simple Types

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) simple type definitions that are specific to this operation.

| Simple type | Description |
| --- | --- |
| **AnalyticsEventTypes** | A filter used for retrieving event types. |

###### AnalyticsEventTypes

**Namespace:** http://www.microsoft.com/sharepoint/search/KnownTypes/2011/05

A filter used for retrieving analytics event types.

1. <xs:simpleType name="AnalyticsEventTypes" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:list>
3. <xs:simpleType>
4. <xs:restriction base="xs:string">
5. <xs:enumeration value="None"/>
6. <xs:enumeration value="Standard"/>
7. <xs:enumeration value="Custom"/>
8. <xs:enumeration value="Internal"/>
9. <xs:enumeration value="All"/>
10. <xs:enumeration value="AllIncludingInternal"/>
11. </xs:restriction>
12. </xs:simpleType>
13. </xs:list>
14. </xs:simpleType>

The following table specifies the allowable values for the **AnalyticsEventTypes** simple type.

| Value | Meaning |
| --- | --- |
| None | No event types |
| Standard | Predefined event types |
| Custom | Application-specific event types |
| Internal | Additional predefined event types, generally event types that are not commonly shown to end users. |
| All | All event types that are commonly shown to end users, including predefined and application-specific event types. |
| AllIncludingInternal | All event types |

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetAnalyticsItemData

Retrieves aggregated usage data for a specified item for a specified event type.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetAnalyticsItemData** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetAnalyticsItemData" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/GetAnalyticsItemData" message="tns:IAnalyticsServiceApplication\_GetAnalyticsItemData\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/GetAnalyticsItemDataResponse" message="tns:IAnalyticsServiceApplication\_GetAnalyticsItemData\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IAnalyticsServiceApplication\_GetAnalyticsItemData\_InputMessage** request message and the protocol server responds with an **IAnalyticsServiceApplication\_GetAnalyticsItemData\_OutputMessage** response message as follows:

* The protocol server returns aggregated usage data for the item if it has data for the specified **eventType**.
* Otherwise, the protocol server returns NULL.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IAnalyticsServiceApplication\_GetAnalyticsItemData\_InputMessage** | The request WSDL message for the **GetAnalyticsItemData** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IAnalyticsServiceApplication\_GetAnalyticsItemData\_OutputMessage** | The response WSDL message for the **GetAnalyticsItemData** WSDL operation. |

###### IAnalyticsServiceApplication\_GetAnalyticsItemData\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetAnalyticsItemData** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://tempuri.org/IAnalyticsServiceApplication/GetAnalyticsItemData

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetAnalyticsItemData** element.

###### IAnalyticsServiceApplication\_GetAnalyticsItemData\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetAnalyticsItemData** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetAnalyticsItemDataResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetAnalyticsItemData** | The input data for the **GetAnalyticsItemData** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetAnalyticsItemDataResponse** | The result data for the **GetAnalyticsItemData** WSDL operation. |

###### GetAnalyticsItemData

The **GetAnalyticsItemData** element specifies the input data for the **GetAnalyticsItemData** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetAnalyticsItemData" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="eventType" type="xs:int"/>
5. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="tenantId" type="ser:guid"/>
6. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="siteId" type="ser:guid"/>
7. <xs:element minOccurs="0" name="itemId" nillable="true" type="xs:string"/>
8. </xs:sequence>
9. </xs:complexType>
10. </xs:element>

**eventType:** The identifier of the event type.

**tenantId:** The identifier of the [**tenant**](#gt_6ae78883-639e-44c6-96d7-617ef44e1b44).

**siteId:** The identifier of the [**Web site (2)**](#gt_04b6a259-c555-4695-a236-57a32087deac).

**itemId:** The identifier of the item.

###### GetAnalyticsItemDataResponse

The **GetAnalyticsItemDataResponse** element specifies the result data for the **GetAnalyticsItemData** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetAnalyticsItemDataResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q1="http://www.microsoft.com/sharepoint/search/KnownTypes/2011/01" minOccurs="0" name="GetAnalyticsItemDataResult" nillable="true" type="q1:AnalyticsItemData"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetAnalyticsItemDataResult:** The aggregated usage data for the item.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetAnalyticsItemsData

Retrieves aggregated usage data for multiple specified items for a specified event type.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetAnalyticsItemsData** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetAnalyticsItemsData" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/GetAnalyticsItemsData" message="tns:IAnalyticsServiceApplication\_GetAnalyticsItemsData\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/GetAnalyticsItemsDataResponse" message="tns:IAnalyticsServiceApplication\_GetAnalyticsItemsData\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IAnalyticsServiceApplication\_GetAnalyticsItemsData\_InputMessage** [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb), and the protocol server responds with an **IAnalyticsServiceApplication\_GetAnalyticsItemsData\_OutputMessage** WSDL message as follows:

* The protocol server returns aggregated usage data for each item corresponding to one of the specified **itemIds** for which it has data for the specified **eventType**.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IAnalyticsServiceApplication\_GetAnalyticsItemsData\_InputMessage** | The request WSDL message for the **GetAnalyticsItemsData** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IAnalyticsServiceApplication\_GetAnalyticsItemsData\_OutputMessage** | The response WSDL message for the **GetAnalyticsItemsData** WSDL operation. |

###### IAnalyticsServiceApplication\_GetAnalyticsItemsData\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetAnalyticsItemsData** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://tempuri.org/IAnalyticsServiceApplication/GetAnalyticsItemsData

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetAnalyticsItemsData** element.

###### IAnalyticsServiceApplication\_GetAnalyticsItemsData\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetAnalyticsItemsData** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetAnalyticsItemsDataResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetAnalyticsItemsData** | The input data for the **GetAnalyticsItemsData** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetAnalyticsItemsDataResponse** | The result data for the **GetAnalyticsItemsData** WSDL operation. |

###### GetAnalyticsItemsData

The **GetAnalyticsItemsData** element specifies the input data for the **GetAnalyticsItemsData** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetAnalyticsItemsData" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="eventType" type="xs:int"/>
5. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="tenantId" type="ser:guid"/>
6. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="siteId" type="ser:guid"/>
7. <xs:element xmlns:tns2="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="itemIds" nillable="true" type="tns2:ArrayOfstring"/>
8. </xs:sequence>
9. </xs:complexType>
10. </xs:element>

**eventType:** The identifier of the event type.

**tenantId:** The identifier of the [**tenant**](#gt_6ae78883-639e-44c6-96d7-617ef44e1b44).

**siteId:** The identifier of the [**Web site (2)**](#gt_04b6a259-c555-4695-a236-57a32087deac).

**itemIds:** A list of identifiers of the items whose associated analytics data is to be retrieved.

###### GetAnalyticsItemsDataResponse

The **GetAnalyticsItemsDataResponse** element specifies the result data for the **GetAnalyticsItemsData** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetAnalyticsItemsDataResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q1="http://www.microsoft.com/sharepoint/search/KnownTypes/2011/01" minOccurs="0" name="GetAnalyticsItemsDataResult" nillable="true" type="q1:ArrayOfAnalyticsItemData"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetAnalyticsItemsDataResult:** A list of aggregated usage data associated for the specified items.

##### Complex Types

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) complex type definitions that are specific to this operation.

| Complex type | Description |
| --- | --- |
| **ArrayOfstring** | An array of strings. |

###### ArrayOfstring

**Namespace:** http://schemas.microsoft.com/2003/10/Serialization/Arrays

A list of strings.

1. <xs:complexType name="ArrayOfstring" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" maxOccurs="unbounded" name="string" nillable="true" type="xs:string"/>
4. </xs:sequence>
5. </xs:complexType>

**string:** A non-empty sequence of characters.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetAnalyticsTenantConfiguration

Retrieves the configuration settings for a specified [**tenant**](#gt_6ae78883-639e-44c6-96d7-617ef44e1b44).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetAnalyticsTenantConfiguration** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetAnalyticsTenantConfiguration" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/GetAnalyticsTenantConfiguration" message="tns:IAnalyticsServiceApplication\_GetAnalyticsTenantConfiguration\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/GetAnalyticsTenantConfigurationResponse" message="tns:IAnalyticsServiceApplication\_GetAnalyticsTenantConfiguration\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IAnalyticsServiceApplication\_GetAnalyticsTenantConfiguration\_InputMessage** [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb), and the protocol server responds with an **IAnalyticsServiceApplication\_GetAnalyticsTenantConfiguration\_OutputMessage** WSDL message as follows:

* The protocol server returns the configuration settings for the tenant corresponding to the specified **tenantId**.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IAnalyticsServiceApplication\_GetAnalyticsTenantConfiguration\_InputMessage** | The request WSDL message for the **GetAnalyticsTenantConfiguration** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IAnalyticsServiceApplication\_GetAnalyticsTenantConfiguration\_OutputMessage** | The response WSDL message for the **GetAnalyticsTenantConfiguration** WSDL operation. |

###### IAnalyticsServiceApplication\_GetAnalyticsTenantConfiguration\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetAnalyticsTenantConfiguration** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://tempuri.org/IAnalyticsServiceApplication/GetAnalyticsTenantConfiguration

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetAnalyticsTenantConfiguration** element.

###### IAnalyticsServiceApplication\_GetAnalyticsTenantConfiguration\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetAnalyticsTenantConfiguration** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetAnalyticsTenantConfigurationResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetAnalyticsTenantConfiguration** | The input data for the **GetAnalyticsTenantConfiguration** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetAnalyticsTenantConfigurationResponse** | The result data for the **GetAnalyticsTenantConfiguration** WSDL operation. |

###### GetAnalyticsTenantConfiguration

The **GetAnalyticsTenantConfiguration** element specifies the input data for the **GetAnalyticsTenantConfiguration** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetAnalyticsTenantConfiguration" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="tenantId" type="ser:guid"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**tenantId:** The identifier of the [**tenant**](#gt_6ae78883-639e-44c6-96d7-617ef44e1b44).

###### GetAnalyticsTenantConfigurationResponse

The **GetAnalyticsTenantConfigurationResponse** element specifies the result data for the **GetAnalyticsTenantConfiguration** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetAnalyticsTenantConfigurationResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q27="http://www.microsoft.com/sharepoint/search/KnownTypes/2011/09" minOccurs="0" name="GetAnalyticsTenantConfigurationResult" nillable="true" type="q27:AnalyticsTenantConfig"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetAnalyticsTenantConfigurationResult:** The configuration settings for the specified [**tenant**](#gt_6ae78883-639e-44c6-96d7-617ef44e1b44).

##### Complex Types

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) complex type definitions that are specific to this operation.

| Complex type | Description |
| --- | --- |
| **AnalyticsTenantConfig** | The analytics configuration for a [**tenant**](#gt_6ae78883-639e-44c6-96d7-617ef44e1b44). |

###### AnalyticsTenantConfig

**Namespace:** http://www.microsoft.com/sharepoint/search/KnownTypes/2011/09

The analytics settings for a [**tenant**](#gt_6ae78883-639e-44c6-96d7-617ef44e1b44).

1. <xs:complexType name="AnalyticsTenantConfig" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" name="Settings" nillable="true" type="q27:AnalyticsTenantSettingsData"/>
4. </xs:sequence>
5. </xs:complexType>

**Settings:** The analytics settings for a tenant.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetGlobalAnalyticsItemDataBatch

Retrieves aggregated usage data for multiple items for a specified event type and a specified scope that have been processed since a specified time.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetGlobalAnalyticsItemDataBatch** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetGlobalAnalyticsItemDataBatch" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/GetGlobalAnalyticsItemDataBatch" message="tns:IAnalyticsServiceApplication\_GetGlobalAnalyticsItemDataBatch\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/GetGlobalAnalyticsItemDataBatchResponse" message="tns:IAnalyticsServiceApplication\_GetGlobalAnalyticsItemDataBatch\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IAnalyticsServiceApplication\_GetGlobalAnalyticsItemDataBatch\_InputMessage** [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb), and the protocol server responds with an **IAnalyticsServiceApplication\_GetGlobalAnalyticsItemDataBatch\_OutputMessage** WSDL message as follows:

* The protocol server examines the **token.ScopeType**. If this value is
	+ **Global**: The protocol server returns the next batch of items that have been modified after the time specified in the **since** parameter.
	+ **Tenant**: The protocol server returns the next batch of items for the [**tenant**](#gt_6ae78883-639e-44c6-96d7-617ef44e1b44) corresponding to the specified **token.TenantId** after the time specified in the **since** parameter.
	+ **Site**: The protocol server returns the next batch of items for the [**Web site (2)**](#gt_04b6a259-c555-4695-a236-57a32087deac) corresponding to the specified **token.TenantId** and **token.SiteId** after the time specified in the **since** parameter.
* If the number of items remaining to return is larger than **batchSize**, only the next **batchSize** number of items are returned.
* The protocol server sets the **Token** with the values corresponding to the last item returned in the batch of **Items**.
	+ This method is a batch method, that is, the protocol server returns a **Token** that represents state that allows the protocol server to resume a subsequent batch of items to return if the current batch is constrained by the **batchSize**. The protocol server expects the protocol client to provide a default initial **token** for a first batch and to provide the state it returns from a previous call for subsequent calls.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IAnalyticsServiceApplication\_GetGlobalAnalyticsItemDataBatch\_InputMessage** | The request WSDL message for the **GetGlobalAnalyticsItemDataBatch** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IAnalyticsServiceApplication\_GetGlobalAnalyticsItemDataBatch\_OutputMessage** | The response WSDL message for the **GetGlobalAnalyticsItemDataBatch** WSDL operation. |

###### IAnalyticsServiceApplication\_GetGlobalAnalyticsItemDataBatch\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetGlobalAnalyticsItemDataBatch** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://tempuri.org/IAnalyticsServiceApplication/GetGlobalAnalyticsItemDataBatch

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetGlobalAnalyticsItemDataBatch** element.

###### IAnalyticsServiceApplication\_GetGlobalAnalyticsItemDataBatch\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetGlobalAnalyticsItemDataBatch** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetGlobalAnalyticsItemDataBatchResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetGlobalAnalyticsItemDataBatch** | The input data for the **GetGlobalAnalyticsItemDataBatch** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetGlobalAnalyticsItemDataBatchResponse** | The result data for the **GetGlobalAnalyticsItemDataBatch** WSDL operation. |

###### GetGlobalAnalyticsItemDataBatch

The **GetGlobalAnalyticsItemDataBatch** element specifies the input data for the **GetGlobalAnalyticsItemDataBatch** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetGlobalAnalyticsItemDataBatch" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="eventType" type="xs:int"/>
5. <xs:element minOccurs="0" name="since" type="xs:dateTime"/>
6. <xs:element minOccurs="0" name="batchSize" type="xs:int"/>
7. <xs:element xmlns:q1="http://www.microsoft.com/sharepoint/search/KnownTypes/2011/01" minOccurs="0" name="token" nillable="true" type="q1:ContinuationTokenItemData"/>
8. </xs:sequence>
9. </xs:complexType>
10. </xs:element>

**eventType:** The identifier of the event type.

**since:** A [**timestamp**](#gt_5799f340-0d0f-4f06-a629-32afbcf95081).

**batchSize:** The maximum number of rows to be retrieved. MUST be less than 1000.

**token:** A token that represents the end of the previous batch.

###### GetGlobalAnalyticsItemDataBatchResponse

The **GetGlobalAnalyticsItemDataBatchResponse** element specifies the result data for the **GetGlobalAnalyticsItemDataBatch** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetGlobalAnalyticsItemDataBatchResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q1="http://www.microsoft.com/sharepoint/search/KnownTypes/2011/01" minOccurs="0" name="GetGlobalAnalyticsItemDataBatchResult" nillable="true" type="q1:AnalyticsItemDataBatch"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetGlobalAnalyticsItemDataBatchResult:** A batch of aggregated usage data processed since the given time, plus a token that represents the end of the current batch.

##### Complex Types

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) complex type definitions that are specific to this operation.

| Complex type | Description |
| --- | --- |
| **AnalyticsItemDataBatch** | A batch of aggregated usage data, plus a token that represents the end of the batch. |
| **ContinuationTokenItemData** | A token that represents the end of a batch of data. |

###### ContinuationTokenItemData

**Namespace:** http://www.microsoft.com/sharepoint/search/KnownTypes/2011/01

A token that represents the end of a batch of data.

1. <xs:complexType name="ContinuationTokenItemData" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" name="EndPartitionId" nillable="true" type="xs:base64Binary"/>
4. <xs:element minOccurs="0" name="ItemHash" type="xs:int"/>
5. <xs:element xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Analytics" minOccurs="0" name="ScopeType" type="tns1:ContinuationTokenItemData.Scope"/>
6. <xs:element minOccurs="0" name="StartPartitionId" nillable="true" type="xs:base64Binary"/>
7. </xs:sequence>
8. </xs:complexType>

**EndPartitionId:** Together with **StartPartitionId** defines the partition range for which the token is valid.

**ItemHash:** If this is not the first batch to be retrieved, this is an implementation-specific hash code of the identifier of the last item from the previous batch. Otherwise, this MUST be 0.

**ScopeType:** The scope of the batch.

**StartPartitionId:**  Together with **EndPartitionId** defines the partition range for which the token is valid.

###### AnalyticsItemDataBatch

**Namespace:** http://www.microsoft.com/sharepoint/search/KnownTypes/2011/01

A batch of aggregated usage data, plus a token that represents the end of the batch.

1. <xs:complexType name="AnalyticsItemDataBatch" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" name="Items" nillable="true" type="q1:ArrayOfAnalyticsItemData"/>
4. <xs:element minOccurs="0" name="Token" nillable="true" type="q1:ContinuationTokenItemData"/>
5. </xs:sequence>
6. </xs:complexType>

**Items:** The collection of analytics item data for each of the items in the batch.

**Token:** The continuation token, provided so that the subsequent batch can be retrieved, if there is one.

##### Simple Types

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) simple type definitions that are specific to this operation.

| Simple type | Description |
| --- | --- |
| **ContinuationTokenItemData.Scope** | The scope for the batch associated with that continuation token. |

###### ContinuationTokenItemData.Scope

**Namespace:** http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Analytics

This value determines the scope of a batch.

1. <xs:simpleType name="ContinuationTokenItemData.Scope" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:restriction base="xs:string">
3. <xs:enumeration value="Global"/>
4. <xs:enumeration value="Tenant"/>
5. <xs:enumeration value="Site"/>
6. </xs:restriction>
7. </xs:simpleType>

The following table specifies the allowable values for the **ContinuationTokenItemData.Scope** simple type.

| Value | Meaning |
| --- | --- |
| Global | The batch will contain all items. |
| Tenant | The batch will contain items from a specific [**tenant**](#gt_6ae78883-639e-44c6-96d7-617ef44e1b44). |
| Site | The batch will contain items from a specific [**site**](#gt_8abdc986-5679-42d9-ad76-b11eb5a0daba). |

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetRawAnayticsTenantSettings

Retrieves the configuration settings for a specified [**tenant**](#gt_6ae78883-639e-44c6-96d7-617ef44e1b44).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetRawAnayticsTenantSettings** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetRawAnayticsTenantSettings" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/GetRawAnayticsTenantSettings" message="tns:IAnalyticsServiceApplication\_GetRawAnayticsTenantSettings\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/GetRawAnayticsTenantSettingsResponse" message="tns:IAnalyticsServiceApplication\_GetRawAnayticsTenantSettings\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IAnalyticsServiceApplication\_GetRawAnayticsTenantSettings\_InputMessage** WSDL message, and the protocol server responds with an **IAnalyticsServiceApplication\_GetRawAnayticsTenantSettings\_OutputMessage** WSDL message as follows:

* The protocol server returns the configuration settings for the tenant corresponding to the specified **tenantId**.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IAnalyticsServiceApplication\_GetRawAnayticsTenantSettings\_InputMessage** | The request WSDL message for the **GetRawAnayticsTenantSettings** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IAnalyticsServiceApplication\_GetRawAnayticsTenantSettings\_OutputMessage** | The response WSDL message for the **GetRawAnayticsTenantSettings** WSDL operation. |

###### IAnalyticsServiceApplication\_GetRawAnayticsTenantSettings\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetRawAnayticsTenantSettings** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://tempuri.org/IAnalyticsServiceApplication/GetRawAnayticsTenantSettings

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetRawAnayticsTenantSettings** element.

###### IAnalyticsServiceApplication\_GetRawAnayticsTenantSettings\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetRawAnayticsTenantSettings** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetRawAnayticsTenantSettingsResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetRawAnayticsTenantSettings** | The input data for the **GetRawAnayticsTenantSettings** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetRawAnayticsTenantSettingsResponse** | The result data for the **GetRawAnayticsTenantSettings** WSDL operation. |

###### GetRawAnayticsTenantSettings

The **GetRawAnayticsTenantSettings** element specifies the input data for the **GetRawAnayticsTenantSettings** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetRawAnayticsTenantSettings" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="tenantId" type="ser:guid"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**tenantId:** The identifier of the [**tenant**](#gt_6ae78883-639e-44c6-96d7-617ef44e1b44).

###### GetRawAnayticsTenantSettingsResponse

The **GetRawAnayticsTenantSettingsResponse** element specifies the result data for the **GetRawAnayticsTenantSettings** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetRawAnayticsTenantSettingsResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q27="http://www.microsoft.com/sharepoint/search/KnownTypes/2011/09" minOccurs="0" name="GetRawAnayticsTenantSettingsResult" nillable="true" type="q27:AnalyticsTenantSettingsData"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetRawAnayticsTenantSettingsResult:** The configuration settings for the tenant.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetRawAnalyticsTenantSettingsBatch

Retrieves the configuration settings for multiple [**tenants**](#gt_6ae78883-639e-44c6-96d7-617ef44e1b44).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetRawAnalyticsTenantSettingsBatch** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetRawAnalyticsTenantSettingsBatch" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/GetRawAnalyticsTenantSettingsBatch" message="tns:IAnalyticsServiceApplication\_GetRawAnalyticsTenantSettingsBatch\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/GetRawAnalyticsTenantSettingsBatchResponse" message="tns:IAnalyticsServiceApplication\_GetRawAnalyticsTenantSettingsBatch\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IAnalyticsServiceApplication\_GetRawAnayticsTenantSettingsBatch\_InputMessage** [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb), and the protocol server responds with an **IAnalyticsServiceApplication\_GetRawAnayticsTenantSettingsBatch\_OutputMessage** WSDL message as follows:

* The protocol server returns the next batch of configuration settings for tenants that have identifiers greater than the **lastTenantId**.
* If the number of configuration settings remaining to return is larger than **batchSize**, only the next **batchSize** number of configuration settings are returned.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IAnalyticsServiceApplication\_GetRawAnalyticsTenantSettingsBatch\_InputMessage** | The request WSDL message for the **GetRawAnalyticsTenantSettingsBatch** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IAnalyticsServiceApplication\_GetRawAnalyticsTenantSettingsBatch\_OutputMessage** | The response WSDL message for the **GetRawAnalyticsTenantSettingsBatch** WSDL operation. |

###### IAnalyticsServiceApplication\_GetRawAnalyticsTenantSettingsBatch\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetRawAnalyticsTenantSettingsBatch** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://tempuri.org/IAnalyticsServiceApplication/GetRawAnalyticsTenantSettingsBatch

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetRawAnalyticsTenantSettingsBatch** element.

###### IAnalyticsServiceApplication\_GetRawAnalyticsTenantSettingsBatch\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetRawAnalyticsTenantSettingsBatch** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetRawAnalyticsTenantSettingsBatchResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetRawAnalyticsTenantSettingsBatch** | The input data for the **GetRawAnalyticsTenantSettingsBatch** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetRawAnalyticsTenantSettingsBatchResponse** | The result data for the **GetRawAnalyticsTenantSettingsBatch** WSDL operation. |

###### GetRawAnalyticsTenantSettingsBatch

The **GetRawAnalyticsTenantSettingsBatch** element specifies the input data for the **GetRawAnalyticsTenantSettingsBatch** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetRawAnalyticsTenantSettingsBatch" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="batchSize" type="xs:int"/>
5. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="lastTenantId" type="ser:guid"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**batchSize:** The maximum number of rows to be retrieved. MUST be less than 1000.

**lastTenantId:** If this is not the first batch to be retrieved, this is the identifier of the [**tenant**](#gt_6ae78883-639e-44c6-96d7-617ef44e1b44) containing the last item from the previous batch. Otherwise, this MUST be the empty [**GUID**](#gt_f49694cc-c350-462d-ab8e-816f0103c6c1).

###### GetRawAnalyticsTenantSettingsBatchResponse

The **GetRawAnalyticsTenantSettingsBatchResponse** element specifies the result data for the **GetRawAnalyticsTenantSettingsBatch** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetRawAnalyticsTenantSettingsBatchResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q27="http://www.microsoft.com/sharepoint/search/KnownTypes/2011/09" minOccurs="0" name="GetRawAnalyticsTenantSettingsBatchResult" nillable="true" type="q27:AnalyticsTenantSettingsDataBatch"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetRawAnalyticsTenantSettingsBatchResult:** A batch of configuration settings, plus the identifier of the [**tenant**](#gt_6ae78883-639e-44c6-96d7-617ef44e1b44) for the last configuration setting from the previous batch.

##### Complex Types

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) complex type definitions that are specific to this operation.

| Complex type | Description |
| --- | --- |
| **AnalyticsTenantSettingsDataBatch** | A batch of configuration settings, plus the identifier of the [**tenant**](#gt_6ae78883-639e-44c6-96d7-617ef44e1b44) for the last configuration setting from the previous batch. |
| **ArrayOfAnalyticsTenantSettingsData** | A list of configuration settings. |

###### AnalyticsTenantSettingsDataBatch

**Namespace:** http://www.microsoft.com/sharepoint/search/KnownTypes/2011/09

A batch of configuration settings, plus the identifier of the [**tenant**](#gt_6ae78883-639e-44c6-96d7-617ef44e1b44) for the last configuration setting from the previous batch.

1. <xs:complexType name="AnalyticsTenantSettingsDataBatch" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" name="LastTenantId" type="ser:guid"/>
4. <xs:element minOccurs="0" name="Settings" nillable="true" type="q27:ArrayOfAnalyticsTenantSettingsData"/>
5. </xs:sequence>
6. </xs:complexType>

**LastTenantId:**  The identifier of the tenant for the last configuration setting from the previous batch.

**Settings:** A list of configuration settings.

###### ArrayOfAnalyticsTenantSettingsData

**Namespace:** http://www.microsoft.com/sharepoint/search/KnownTypes/2011/09

A list of configuration settings.

1. <xs:complexType name="ArrayOfAnalyticsTenantSettingsData" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" maxOccurs="unbounded" name="AnalyticsTenantSettingsData" nillable="true" type="q27:AnalyticsTenantSettingsData"/>
4. </xs:sequence>
5. </xs:complexType>

**AnalyticsTenantSettingsData:** The configuration settings for a [**tenant**](#gt_6ae78883-639e-44c6-96d7-617ef44e1b44).

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetRollupAnalyticsItemData

Retrieves aggregated usage data for a [**rollup**](#gt_5e2f471f-4d9e-4978-939f-02e76ad93a51) scope for events of a specified event type.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetRollupAnalyticsItemData** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetRollupAnalyticsItemData" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/GetRollupAnalyticsItemData" message="tns:IAnalyticsServiceApplication\_GetRollupAnalyticsItemData\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/GetRollupAnalyticsItemDataResponse" message="tns:IAnalyticsServiceApplication\_GetRollupAnalyticsItemData\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IAnalyticsServiceApplication\_GetRollupAnalyticsItemData\_InputMessage** [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb), and the protocol server responds with an **IAnalyticsServiceApplication\_GetRollupAnalyticsItemData\_OutputMessage** WSDL message as follows:

* The protocol server determines the appropriate rollup scope as follows:
	+ [**Tenant**](#gt_6ae78883-639e-44c6-96d7-617ef44e1b44): the **siteId** and **scopeId** are all equal to the **tenantId**.
	+ [**Web site**](#gt_04b6a259-c555-4695-a236-57a32087deac): the **siteId** is the identifier of the Web site (2) and **scopeId** MUST be the empty [**GUID**](#gt_f49694cc-c350-462d-ab8e-816f0103c6c1).
	+ Application-specific rollup scope: the **siteId** is the identifier of the Web site (2) and **scopeId** is the application-specific rollup scope.
* The protocol server returns the aggregated usage data corresponding to that rollup scope.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IAnalyticsServiceApplication\_GetRollupAnalyticsItemData\_InputMessage** | The request WSDL message for the **GetRollupAnalyticsItemData** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IAnalyticsServiceApplication\_GetRollupAnalyticsItemData\_OutputMessage** | The response WSDL message for the **GetRollupAnalyticsItemData** WSDL operation. |

###### IAnalyticsServiceApplication\_GetRollupAnalyticsItemData\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetRollupAnalyticsItemData** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://tempuri.org/IAnalyticsServiceApplication/GetRollupAnalyticsItemData

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetRollupAnalyticsItemData** element.

###### IAnalyticsServiceApplication\_GetRollupAnalyticsItemData\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetRollupAnalyticsItemData** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetRollupAnalyticsItemDataResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetRollupAnalyticsItemData** | The input data for the **GetRollupAnalyticsItemData** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetRollupAnalyticsItemDataResponse** | The result data for the **GetRollupAnalyticsItemData** WSDL operation. |

###### GetRollupAnalyticsItemData

The **GetRollupAnalyticsItemData** element specifies the input data for the **GetRollupAnalyticsItemData** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetRollupAnalyticsItemData" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="eventType" type="xs:int"/>
5. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="tenantId" type="ser:guid"/>
6. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="siteId" type="ser:guid"/>
7. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="scopeId" type="ser:guid"/>
8. </xs:sequence>
9. </xs:complexType>
10. </xs:element>

**eventType:** The identifier of the event type.

**tenantId:** The identifier of the [**tenant**](#gt_6ae78883-639e-44c6-96d7-617ef44e1b44).

**siteId:** This is the identifier of the tenant or [**Web site (2)**](#gt_04b6a259-c555-4695-a236-57a32087deac).

**scopeId:** This is the identifier of the tenant, Web site (2), or application-specified [**rollup**](#gt_5e2f471f-4d9e-4978-939f-02e76ad93a51) scope.

###### GetRollupAnalyticsItemDataResponse

The **GetRollupAnalyticsItemDataResponse** element specifies the result data for the **GetRollupAnalyticsItemData** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetRollupAnalyticsItemDataResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q1="http://www.microsoft.com/sharepoint/search/KnownTypes/2011/01" minOccurs="0" name="GetRollupAnalyticsItemDataResult" nillable="true" type="q1:AnalyticsItemData"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetRollupAnalyticsItemDataResult:** The aggregated usage data for the [**rollup**](#gt_5e2f471f-4d9e-4978-939f-02e76ad93a51) scope.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetSearchReport

Retrieves the aggregated top occurrences for the specified search event type within a scope.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetSearchReport** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetSearchReport" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/GetSearchReport" message="tns:IAnalyticsServiceApplication\_GetSearchReport\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/GetSearchReportResponse" message="tns:IAnalyticsServiceApplication\_GetSearchReport\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IAnalyticsServiceApplication\_GetSearchReport\_InputMessage** WSDL message, and the protocol server responds with an **IAnalyticsServiceApplication\_GetSearchReport\_OutputMessage** WSDL message as follows:

* The protocol server returns the top **maxRows** [**search queries**](#gt_82b8412f-e1c7-4354-8d4a-ea10ec87fc00) that have the most occurrence of the specified **reportType** event for search queries performed within the [**Web site (2)**](#gt_04b6a259-c555-4695-a236-57a32087deac) specified by **tenantId** and **siteId** during the day or month (depending on **bDaily**) indicated by **reportDate**.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IAnalyticsServiceApplication\_GetSearchReport\_InputMessage** | The request WSDL message for the **GetSearchReport** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IAnalyticsServiceApplication\_GetSearchReport\_OutputMessage** | The response WSDL message for the **GetSearchReport** WSDL operation. |

###### IAnalyticsServiceApplication\_GetSearchReport\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetSearchReport** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://tempuri.org/IAnalyticsServiceApplication/GetSearchReport

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetSearchReport** element.

###### IAnalyticsServiceApplication\_GetSearchReport\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetSearchReport** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetSearchReportResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetSearchReport** | The input data for the **GetSearchReport** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetSearchReportResponse** | The result data for the **GetSearchReport** WSDL operation. |

###### GetSearchReport

The **GetSearchReport** element specifies the input data for the **GetSearchReport** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetSearchReport" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="reportType" type="xs:int"/>
5. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="tenantId" type="ser:guid"/>
6. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="siteId" type="ser:guid"/>
7. <xs:element minOccurs="0" name="reportDate" type="xs:dateTime"/>
8. <xs:element minOccurs="0" name="bDaily" type="xs:boolean"/>
9. <xs:element minOccurs="0" name="maxRows" type="xs:unsignedInt"/>
10. </xs:sequence>
11. </xs:complexType>
12. </xs:element>

**reportType:** The identifier of the search event type.

**tenantId:** The identifier of the [**tenant**](#gt_6ae78883-639e-44c6-96d7-617ef44e1b44).

**siteId:** The identifier of the [**Web site (2)**](#gt_04b6a259-c555-4695-a236-57a32087deac).

**reportDate:** A timestamp that indicates the day (if **bDaily** is true) or month (if **bDaily** is false) to be reported on.

**bDaily:** Whether the aggregation is for a day or a month.

**maxRows:** The maximum number of queries to return.

###### GetSearchReportResponse

The **GetSearchReportResponse** element specifies the result data for the **GetSearchReport** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetSearchReportResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q1="http://www.microsoft.com/sharepoint/search/KnownTypes/2011/01" minOccurs="0" name="GetSearchReportResult" nillable="true" type="q1:ArrayOfQueryReportData"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetSearchReportResult:** A list of the queries with occurrence counts.

##### Complex Types

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) complex type definitions that are specific to this operation.

| Complex type | Description |
| --- | --- |
| **ArrayOfQueryReportData** | A list of queries with an event count. |
| **QueryReportData** | A query and an event count. |

###### ArrayOfQueryReportData

**Namespace:** http://www.microsoft.com/sharepoint/search/KnownTypes/2011/01

A list of queries with occurrence counts.

1. <xs:complexType name="ArrayOfQueryReportData" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" maxOccurs="unbounded" name="QueryReportData" nillable="true" type="q1:QueryReportData"/>
4. </xs:sequence>
5. </xs:complexType>

**QueryReportData:**  A query and an event count.

###### QueryReportData

**Namespace:** http://www.microsoft.com/sharepoint/search/KnownTypes/2011/01

Represents a query and its event count.

1. <xs:complexType name="QueryReportData" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:sequence>
3. <xs:element minOccurs="0" name="Count" type="xs:int"/>
4. <xs:element minOccurs="0" name="Query" nillable="true" type="xs:string"/>
5. <xs:element minOccurs="0" name="Scope" type="ser:guid"/>
6. </xs:sequence>
7. </xs:complexType>

**Count:** The number of times that the specified search event occurred.

**Query:** The [**search query**](#gt_82b8412f-e1c7-4354-8d4a-ea10ec87fc00).

**Scope:** The scope in which the search query was executed.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetTenantAnalyticsItemData

Retrieves aggregated usage data for a [**tenant**](#gt_6ae78883-639e-44c6-96d7-617ef44e1b44) for events of a specified event type.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetTenantAnalyticsItemData** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetTenantAnalyticsItemData" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/GetTenantAnalyticsItemData" message="tns:IAnalyticsServiceApplication\_GetTenantAnalyticsItemData\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/GetTenantAnalyticsItemDataResponse" message="tns:IAnalyticsServiceApplication\_GetTenantAnalyticsItemData\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IAnalyticsServiceApplication\_GetTenantAnalyticsItemData\_InputMessage** [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb), and the protocol server MUST respond with an **IAnalyticsServiceApplication\_GetTenantAnalyticsItemData\_OutputMessage** WSDL message, as follows:

* The protocol server returns the aggregated usage data for the tenant specified by **tenantId**.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IAnalyticsServiceApplication\_GetTenantAnalyticsItemData\_InputMessage** | The request WSDL message for the **GetTenantAnalyticsItemData** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IAnalyticsServiceApplication\_GetTenantAnalyticsItemData\_OutputMessage** | The response WSDL message for the **GetTenantAnalyticsItemData** WSDL operation. |

###### IAnalyticsServiceApplication\_GetTenantAnalyticsItemData\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetTenantAnalyticsItemData** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://tempuri.org/IAnalyticsServiceApplication/GetTenantAnalyticsItemData

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetTenantAnalyticsItemData** element.

###### IAnalyticsServiceApplication\_GetTenantAnalyticsItemData\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetTenantAnalyticsItemData** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetTenantAnalyticsItemDataResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetTenantAnalyticsItemData** | The input data for the **GetTenantAnalyticsItemData** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetTenantAnalyticsItemDataResponse** | The result data for the **GetTenantAnalyticsItemData** WSDL operation. |

###### GetTenantAnalyticsItemData

The **GetTenantAnalyticsItemData** element specifies the input data for the **GetTenantAnalyticsItemData** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetTenantAnalyticsItemData" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="eventType" type="xs:int"/>
5. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="tenantId" type="ser:guid"/>
6. </xs:sequence>
7. </xs:complexType>
8. </xs:element>

**eventType:** The identifier of the event type.

**tenantId:** The identifier of the [**tenant**](#gt_6ae78883-639e-44c6-96d7-617ef44e1b44).

###### GetTenantAnalyticsItemDataResponse

The **GetTenantAnalyticsItemDataResponse** element specifies the result data for the **GetTenantAnalyticsItemData** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetTenantAnalyticsItemDataResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q1="http://www.microsoft.com/sharepoint/search/KnownTypes/2011/01" minOccurs="0" name="GetTenantAnalyticsItemDataResult" nillable="true" type="q1:AnalyticsItemData"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetTenantAnalyticsItemDataResult:**  The aggregated usage data for the [**tenant**](#gt_6ae78883-639e-44c6-96d7-617ef44e1b44).

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### SendAnalyticsUsageEvents

Sends usage events to the protocol server.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **SendAnalyticsUsageEvents** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="SendAnalyticsUsageEvents" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/SendAnalyticsUsageEvents" message="tns:IAnalyticsServiceApplication\_SendAnalyticsUsageEvents\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/SendAnalyticsUsageEventsResponse" message="tns:IAnalyticsServiceApplication\_SendAnalyticsUsageEvents\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IAnalyticsServiceApplication\_SendAnalyticsUsageEvents\_InputMessage** request message and the protocol server responds with an **IAnalyticsServiceApplication\_SendAnalyticsUsageEvents\_OutputMessage** response message as follows:

* The protocol server persists the events in the event store.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IAnalyticsServiceApplication\_SendAnalyticsUsageEvents\_InputMessage** | The request WSDL message for the **SendAnalyticsUsageEvents** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IAnalyticsServiceApplication\_SendAnalyticsUsageEvents\_OutputMessage** | The response WSDL message for the **SendAnalyticsUsageEvents** WSDL operation. |

###### IAnalyticsServiceApplication\_SendAnalyticsUsageEvents\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **SendAnalyticsUsageEvents** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://tempuri.org/IAnalyticsServiceApplication/SendAnalyticsUsageEvents

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **SendAnalyticsUsageEvents** element.

###### IAnalyticsServiceApplication\_SendAnalyticsUsageEvents\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **SendAnalyticsUsageEvents** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **SendAnalyticsUsageEventsResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **SendAnalyticsUsageEvents** | The input data for the **SendAnalyticsUsageEvents** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **SendAnalyticsUsageEventsResponse** | The result data for the **SendAnalyticsUsageEvents** WSDL operation. |

###### SendAnalyticsUsageEvents

The **SendAnalyticsUsageEvents** element specifies the input data for the **SendAnalyticsUsageEvents** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="SendAnalyticsUsageEvents" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q1="http://www.microsoft.com/sharepoint/search/KnownTypes/2011/01" minOccurs="0" name="entriesList" nillable="true" type="q1:ArrayOfAnalyticsUsageEvent"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**entriesList:** A list of usage events.

###### SendAnalyticsUsageEventsResponse

The **SendAnalyticsUsageEventsResponse** element specifies the result data for the **SendAnalyticsUsageEvents** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="SendAnalyticsUsageEventsResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence/>
4. </xs:complexType>
5. </xs:element>

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### UpsertRawAnalyticsTenantSettings

Updates the configuration settings for a specified [**tenant**](#gt_6ae78883-639e-44c6-96d7-617ef44e1b44).

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **UpsertRawAnalyticsTenantSettings** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="UpsertRawAnalyticsTenantSettings" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/UpsertRawAnalyticsTenantSettings" message="tns:IAnalyticsServiceApplication\_UpsertRawAnalyticsTenantSettings\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/UpsertRawAnalyticsTenantSettingsResponse" message="tns:IAnalyticsServiceApplication\_UpsertRawAnalyticsTenantSettings\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IAnalyticsServiceApplication\_UpsertRawAnalyticsTenantSettings\_InputMessage** [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb), and the protocol server responds with an **IAnalyticsServiceApplication\_UpsertRawAnalyticsTenantSettings\_OutputMessage** WSDL message as follows:

* If configuration settings exist for the tenant specified by **ts.TenantId**, those settings are replaced with the values provided.
* Otherwise, configuration settings are initialized with the values provided.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IAnalyticsServiceApplication\_UpsertRawAnalyticsTenantSettings\_InputMessage** | The request WSDL message for the **UpsertRawAnalyticsTenantSettings** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IAnalyticsServiceApplication\_UpsertRawAnalyticsTenantSettings\_OutputMessage** | The response WSDL message for the **UpsertRawAnalyticsTenantSettings** WSDL operation. |

###### IAnalyticsServiceApplication\_UpsertRawAnalyticsTenantSettings\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **UpsertRawAnalyticsTenantSettings** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://tempuri.org/IAnalyticsServiceApplication/UpsertRawAnalyticsTenantSettings

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **UpsertRawAnalyticsTenantSettings** element.

###### IAnalyticsServiceApplication\_UpsertRawAnalyticsTenantSettings\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **UpsertRawAnalyticsTenantSettings** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **UpsertRawAnalyticsTenantSettingsResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **UpsertRawAnalyticsTenantSettings** | The input data for the **UpsertRawAnalyticsTenantSettings** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **UpsertRawAnalyticsTenantSettingsResponse** | The result data for the **UpsertRawAnalyticsTenantSettings** WSDL operation. |

###### UpsertRawAnalyticsTenantSettings

The **UpsertRawAnalyticsTenantSettings** element specifies the input data for the **UpsertRawAnalyticsTenantSettings** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="UpsertRawAnalyticsTenantSettings" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q27="http://www.microsoft.com/sharepoint/search/KnownTypes/2011/09" minOccurs="0" name="ts" nillable="true" type="q27:AnalyticsTenantSettingsData"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**ts:** The configuration settings.

###### UpsertRawAnalyticsTenantSettingsResponse

The **UpsertRawAnalyticsTenantSettingsResponse** element specifies the result data for the **UpsertRawAnalyticsTenantSettings** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="UpsertRawAnalyticsTenantSettingsResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence/>
4. </xs:complexType>
5. </xs:element>

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### GetQueryTermsForUser

Retrieves [**search queries**](#gt_82b8412f-e1c7-4354-8d4a-ea10ec87fc00) for a specified user.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **GetQueryTermsForUser** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="GetQueryTermsForUser" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/GetQueryTermsForUser" message="tns:IAnalyticsServiceApplication\_GetQueryTermsForUser\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/GetQueryTermsForUserResponse" message="tns:IAnalyticsServiceApplication\_GetQueryTermsForUser\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IAnalyticsServiceApplication\_GetQueryTermsForUser\_InputMessage** [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb), and the protocol server responds with an **IAnalyticsServiceApplication\_GetQueryTermsForUser\_OutputMessage** WSDL message as follows:

* The protocol server returns search queries for a user from a specified start date to current date.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IAnalyticsServiceApplication\_GetQueryTermsForUser\_InputMessage** | The request WSDL message for the **GetQueryTermsForUser** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IAnalyticsServiceApplication\_GetQueryTermsForUser\_OutputMessage** | The response WSDL message for the **GetQueryTermsForUser** WSDL operation. |

###### IAnalyticsServiceApplication\_GetQueryTermsForUser\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetQueryTermsForUser** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://tempuri.org/IAnalyticsServiceApplication/GetQueryTermsForUser

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetQueryTermsForUser** element.

###### IAnalyticsServiceApplication\_GetQueryTermsForUser\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **GetQueryTermsForUser** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **GetQueryTermsForUserResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **GetQueryTermsForUser** | The input data for the **GetQueryTermsForUser** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **GetQueryTermsForUserResponse** | The result data for the **GetQueryTermsForUser** WSDL operation. |

###### GetQueryTermsForUser

The **GetQueryTermsForUser** element specifies the input data for the **GetQueryTermsForUser** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetQueryTermsForUser" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="userName" nillable="true" type="xs:string"/>
5. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="tenantId" type="ser:guid"/>
6. <xs:element minOccurs="0" name="startTime" type="xs:dateTime"/>
7. </xs:sequence>
8. </xs:complexType>
9. </xs:element>

**userName:** The identifier of the user.

**tenantId:** The identifier for the [**tenant**](#gt_6ae78883-639e-44c6-96d7-617ef44e1b44).

**startTime:** Start date of [**search queries**](#gt_82b8412f-e1c7-4354-8d4a-ea10ec87fc00) to return.

###### GetQueryTermsForUserResponse

The **GetQueryTermsForUserResponse** element specifies the result data for the **GetQueryTermsForUser** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="GetQueryTermsForUserResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element minOccurs="0" name="GetQueryTermsForUserResult" nillable="true" type="xs:string"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**GetQueryTermsForUserResult:** Search queries for user within specified time range.

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

#### SendAnalyticsUsageEventsToEventStore

Sends a list of analytics usage events into the event store.

The following is the [**WSDL**](#gt_5a824664-0858-4b09-b852-83baf4584efa) port type specification of the **SendAnalyticsUsageEventsToEventStore** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <wsdl:operation name="SendAnalyticsUsageEventsToEventStore" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
2. <wsdl:input wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/SendAnalyticsUsageEventsToEventStore" message="tns:IAnalyticsServiceApplication\_SendAnalyticsUsageEventsToEventStore\_InputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
3. <wsdl:output wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/SendAnalyticsUsageEventsToEventStoreResponse" message="tns:IAnalyticsServiceApplication\_SendAnalyticsUsageEventsToEventStore\_OutputMessage" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl"/>
4. </wsdl:operation>

The protocol client sends an **IAnalyticsServiceApplication\_SendAnalyticsUsageEventsToEventStore\_InputMessage** request message and the protocol server responds with an **IAnalyticsServiceApplication\_SendAnalyticsUsageEventsToEventStore \_OutputMessage** response message as follows:

* The protocol server persists the events in the event store.

##### Messages

The following table summarizes the set of [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) definitions that are specific to this operation.

| Message | Description |
| --- | --- |
| **IAnalyticsServiceApplication\_SendAnalyticsUsageEventsToEventStore\_InputMessage** | The request WSDL message for the **SendAnalyticsUsageEventsToEventStore** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **IAnalyticsServiceApplication\_SendAnalyticsUsageEventsToEventStore\_OutputMessage** | The response WSDL message for the **SendAnalyticsUsageEventsToEventStore** WSDL operation. |

###### IAnalyticsServiceApplication\_SendAnalyticsUsageEventsToEventStore\_InputMessage

The request [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **SendAnalyticsUsageEventsToEventStore** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP action**](#gt_c1358651-96c1-4ce0-8e1f-b0b7a94145e3) value is:

1. http://tempuri.org/IAnalyticsServiceApplication/SendAnalyticsUsageEventsToEventStore

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **SendAnalyticsUsageEventsToEventStore** element.

###### IAnalyticsServiceApplication\_SendAnalyticsUsageEventsToEventStore\_OutputMessage

The response [**WSDL message**](#gt_d5ccdf11-3f53-4118-a845-dfaca61838fb) for the **SendAnalyticsUsageEventsToEventStore** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

The [**SOAP body**](#gt_57cdf8ab-8d79-462d-a446-5d85632a7a04) contains the **SendAnalyticsUsageEventsToEventStoreResponse** element.

##### Elements

The following table summarizes the [**XML schema**](#gt_bd0ce6f9-c350-4900-827e-951265294067) element definitions that are specific to this operation.

| Element | Description |
| --- | --- |
| **SendAnalyticsUsageEventsToEventStore** | The input data for the **SendAnalyticsUsageEventsToEventStore** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299). |
| **SendAnalyticsUsageEventsToEventStoreResponse** | The result data for the **SendAnalyticsUsageEventsToEventStore** WSDL operation. |

###### SendAnalyticsUsageEventsToEventStore

The **SendAnalyticsUsageEventsToEventStore** element specifies the input data for the **SendAnalyticsUsageEventsToEventStore** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="SendAnalyticsUsageEventsToEventStore" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence>
4. <xs:element xmlns:q1="http://www.microsoft.com/sharepoint/search/KnownTypes/2011/01" minOccurs="0" name="entriesList" nillable="true" type="q1:ArrayOfAnalyticsUsageEvent"/>
5. </xs:sequence>
6. </xs:complexType>
7. </xs:element>

**entriesList:**  A list of usage events.

###### SendAnalyticsUsageEventsToEventStoreResponse

The **SendAnalyticsUsageEventsToEventStoreResponse** element specifies the result data for the **SendAnalyticsUsageEventsToEventStore** [**WSDL operation**](#gt_3f81265d-5456-4bfe-b795-ac5bf522b299).

1. <xs:element name="SendAnalyticsUsageEventsToEventStoreResponse" xmlns:xs="http://www.w3.org/2001/XMLSchema">
2. <xs:complexType>
3. <xs:sequence/>
4. </xs:complexType>
5. </xs:element>

##### Complex Types

None.

##### Simple Types

None.

##### Attributes

None.

##### Groups

None.

##### Attribute Groups

None.

### Timer Events

None.

### Other Local Events

None.

# Protocol Examples

## Delete All Usage Data for a Tenant

In this example, the protocol client sends a request as follows to delete all usage data associated with a specified tenant:

1. <s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope" xmlns:a="http://www.w3.org/2005/08/addressing" xmlns:u="Security">
2. <s:Header>
3. <a:Action s:mustUnderstand="1">http://tempuri.org/IAnalyticsServiceApplication/DeleteAllUsageDataForTenant</a:Action>
4. <a:MessageID>urn:uuid:0cc7e833-004c-4d17-98ae-23a1fee6cfa1</a:MessageID>
5. <a:SequenceAcknowledgement>
6. <a:ReplyTo>http://www.w3.org/2005/08/addressing/anonymous</a:ReplyTo>
7. </a:SequenceAcknowledgement>
8. <ServiceContext xmlns="http://schemas.microsoft.com/sharepoint/servicecontext" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
9. <correlationId>00000000-0000-0000-0000-000000000000</correlationId>
10. <devdashboardIsEnabled>false</devdashboardIsEnabled>
11. <language>en-US</language>
12. <region>en-US</region>
13. <scopeId>8864235033460737</scopeId>
14. <siteSubscriptionId i:nil="true">
15. </siteSubscriptionId>
16. <ulstraceOverrideLevel>0</ulstraceOverrideLevel>
17. </ServiceContext>
18. <a:To s:mustUnderstand="1" u:Id="\_1">http://contoso.com:32843/9970df23629e42a39aa9383e64b537c9/SearchService.svc</a:To>
19. </s:Header>
20. <s:Body>
21. <DeleteAllUsageDataForTenant xmlns="http://tempuri.org/">
22. <tenantId>00000000-0000-0000-0000-000000000000</tenantId>
23. </DeleteAllUsageDataForTenant>
24. </s:Body>
25. </s:Envelope>

The protocol server responds as follows:

1. <s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope" xmlns:a="http://www.w3.org/2005/08/addressing" xmlns:u="Security">
2. <s:Header>
3. <a:Action s:mustUnderstand="1">http://tempuri.org/IAnalyticsServiceApplication/DeleteAllUsageDataForTenantResponse</a:Action>
4. <ActivityId CorrelationId="b42dec78-0431-4549-a958-69876e93b253" xmlns="http://schemas.microsoft.com/2004/09/ServiceModel/Diagnostics">df8cd1bb-bb4d-41f8-a75f-c99634642ff5</ActivityId>
5. <a:RelatesTo>urn:uuid:0cc7e833-004c-4d17-98ae-23a1fee6cfa1</a:RelatesTo>
6. <o:Timestamp s:mustUnderstand="1" xmlns:o="http://www.w3.org/2001/04/xmlenc#">
7. <u:Created u:Id="\_0">
8. <u:Expires>2011-11-19T03:00:46.177Z</u:Expires>
9. <u:Length>2011-11-19T03:05:46.177Z</u:Length>
10. </u:Created>
11. </o:Timestamp>
12. </s:Header>
13. <s:Body>
14. <DeleteAllUsageDataForTenantResponse xmlns="http://tempuri.org/">
15. </DeleteAllUsageDataForTenantResponse>
16. </s:Body>
17. </s:Envelope>

## Get an Analytics Event Type Definition

In the following example, the protocol client sends a request as follows to retrieve the definition of an event type for the specified tenant:

1. <s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope" xmlns:a="http://www.w3.org/2005/08/addressing" xmlns:u="Security">
2. <s:Header>
3. <a:Action s:mustUnderstand="1">http://tempuri.org/IAnalyticsServiceApplication/GetAnalyticsEventTypeDefinition</a:Action>
4. <a:MessageID>urn:uuid:9961c974-35fb-4f90-b27d-7d1c1824e308</a:MessageID>
5. <a:SequenceAcknowledgement>
6. <a:ReplyTo>http://www.w3.org/2005/08/addressing/anonymous</a:ReplyTo>
7. </a:SequenceAcknowledgement>
8. <ServiceContext xmlns="http://schemas.microsoft.com/sharepoint/servicecontext" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
9. <correlationId>00000000-0000-0000-0000-000000000000</correlationId>
10. <devdashboardIsEnabled>false</devdashboardIsEnabled>
11. <language>en-US</language>
12. <region>en-US</region>
13. <scopeId>4270087397703681</scopeId>
14. <siteSubscriptionId i:nil="true">
15. </siteSubscriptionId>
16. <ulstraceOverrideLevel>0</ulstraceOverrideLevel>
17. </ServiceContext>
18. <a:To s:mustUnderstand="1" u:Id="\_1">http://contoso.com:32843/9970df23629e42a39aa9383e64b537c9/SearchService.svc</a:To>
19. </s:Header>
20. <s:Body>
21. <GetAnalyticsEventTypeDefinition xmlns="http://tempuri.org/">
22. <tenantId>00000000-0000-0000-0000-000000000000</tenantId>
23. <eventType>1</eventType>
24. </GetAnalyticsEventTypeDefinition>
25. </s:Body>
26. </s:Envelope>

The protocol server responds as follows:

1. <s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope" xmlns:a="http://www.w3.org/2005/08/addressing" xmlns:u="Security">
2. <s:Header>
3. <a:Action s:mustUnderstand="1">http://tempuri.org/IAnalyticsServiceApplication/GetAnalyticsEventTypeDefinitionResponse</a:Action>
4. <ActivityId CorrelationId="a79acb3e-c3eb-4ece-a523-e8f37f131efa" xmlns="http://schemas.microsoft.com/2004/09/ServiceModel/Diagnostics">e8a98b4f-c541-4603-895b-70a0ac42a170</ActivityId>
5. <a:RelatesTo>urn:uuid:9961c974-35fb-4f90-b27d-7d1c1824e308</a:RelatesTo>
6. <o:Timestamp s:mustUnderstand="1" xmlns:o="http://www.w3.org/2001/04/xmlenc#">
7. <u:Created u:Id="\_0">
8. <u:Expires>2011-11-19T03:23:29.321Z</u:Expires>
9. <u:Length>2011-11-19T03:28:29.321Z</u:Length>
10. </u:Created>
11. </o:Timestamp>
12. </s:Header>
13. <s:Body>
14. <GetAnalyticsEventTypeDefinitionResponse xmlns="http://tempuri.org/">
15. <GetAnalyticsEventTypeDefinitionResult xmlns:b="http://www.microsoft.com/sharepoint/search/KnownTypes/2011/01" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
16. <b:AggregationType>Count UniqueUsers</b:AggregationType>
17. <b:AppEventTypeId>00000000-0000-0000-0000-000000000000</b:AppEventTypeId>
18. <b:ApplicationName>
19. </b:ApplicationName>
20. <b:EventName>Views</b:EventName>
21. <b:EventTypeId>1</b:EventTypeId>
22. <b:RecentPopularityTimeframe>14</b:RecentPopularityTimeframe>
23. <b:RecommendationWeight>1</b:RecommendationWeight>
24. <b:RelevanceWeight>1</b:RelevanceWeight>
25. <b:Rollups>SiteSubscriptionId SiteId ScopeId</b:Rollups>
26. <b:TailTrimming>2</b:TailTrimming>
27. <b:TenantId>00000000-0000-0000-0000-000000000000</b:TenantId>
28. </GetAnalyticsEventTypeDefinitionResult>
29. </GetAnalyticsEventTypeDefinitionResponse>
30. </s:Body>
31. </s:Envelope>

## Get Analytics Item Data

In the following example, the protocol client sends a request as follows to retrieve the aggregated data for views of the given item:

1. <s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope" xmlns:a="http://www.w3.org/2005/08/addressing" xmlns:u="Security">
2. <s:Header>
3. <a:Action s:mustUnderstand="1">http://tempuri.org/IAnalyticsServiceApplication/GetAnalyticsItemData</a:Action>
4. <a:MessageID>urn:uuid:59957de8-e997-4a19-afde-f0183a7f3b9a</a:MessageID>
5. <a:SequenceAcknowledgement>
6. <a:ReplyTo>http://www.w3.org/2005/08/addressing/anonymous</a:ReplyTo>
7. </a:SequenceAcknowledgement>
8. <ServiceContext xmlns="http://schemas.microsoft.com/sharepoint/servicecontext" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
9. <correlationId>00000000-0000-0000-0000-000000000000</correlationId>
10. <devdashboardIsEnabled>false</devdashboardIsEnabled>
11. <language>en-US</language>
12. <region>en-US</region>
13. <scopeId>1251122339643393</scopeId>
14. <siteSubscriptionId i:nil="true">
15. </siteSubscriptionId>
16. <ulstraceOverrideLevel>0</ulstraceOverrideLevel>
17. </ServiceContext>
18. <a:To s:mustUnderstand="1" u:Id="\_1">http://contoso.com:32843/9970df23629e42a39aa9383e64b537c9/SearchService.svc</a:To>
19. </s:Header>
20. <s:Body>
21. <GetAnalyticsItemData xmlns="http://tempuri.org/">
22. <eventType>1</eventType>
23. <tenantId>00000000-0000-0000-0000-000000000000</tenantId>
24. <siteId>a97351de-40a9-4e05-b938-161ecf62e806</siteId>
25. <itemId>http://contoso.com/sites/4af361d7-f60e-4aa5-a23d-488e0536eda1</itemId>
26. </GetAnalyticsItemData>
27. </s:Body>
28. </s:Envelope>

The protocol server responds as follows:

1. <s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope" xmlns:a="http://www.w3.org/2005/08/addressing" xmlns:u="Security">
2. <s:Header>
3. <a:Action s:mustUnderstand="1">http://tempuri.org/IAnalyticsServiceApplication/GetAnalyticsItemDataResponse</a:Action>
4. <ActivityId CorrelationId="33ce4125-16d1-4fba-9a73-7f643f7533ae" xmlns="http://schemas.microsoft.com/2004/09/ServiceModel/Diagnostics">96b81d74-09e1-4809-a074-7d865ffb4400</ActivityId>
5. <a:RelatesTo>urn:uuid:59957de8-e997-4a19-afde-f0183a7f3b9a</a:RelatesTo>
6. <o:Timestamp s:mustUnderstand="1" xmlns:o="http://www.w3.org/2001/04/xmlenc#">
7. <u:Created u:Id="\_0">
8. <u:Expires>2011-11-19T03:30:29.873Z</u:Expires>
9. <u:Length>2011-11-19T03:35:29.873Z</u:Length>
10. </u:Created>
11. </o:Timestamp>
12. </s:Header>
13. <s:Body>
14. <GetAnalyticsItemDataResponse xmlns="http://tempuri.org/">
15. <GetAnalyticsItemDataResult xmlns:b="http://www.microsoft.com/sharepoint/search/KnownTypes/2011/01" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
16. <b:DailyHits xmlns:c="http://schemas.microsoft.com/2003/10/Serialization/Arrays">
17. <c:int>0</c:int>
18. <c:int>0</c:int>
19. <c:int>0</c:int>
20. <c:int>0</c:int>
21. <c:int>126</c:int>
22. <c:int>0</c:int>
23. <c:int>0</c:int>
24. <c:int>0</c:int>
25. <c:int>0</c:int>
26. <c:int>0</c:int>
27. <c:int>0</c:int>
28. <c:int>0</c:int>
29. <c:int>0</c:int>
30. <c:int>0</c:int>
31. <c:int>0</c:int>
32. </b:DailyHits>
33. <b:DailyUniqueUsers xmlns:c="http://schemas.microsoft.com/2003/10/Serialization/Arrays">
34. <c:int>0</c:int>
35. <c:int>0</c:int>
36. <c:int>0</c:int>
37. <c:int>0</c:int>
38. <c:int>15</c:int>
39. <c:int>0</c:int>
40. <c:int>0</c:int>
41. <c:int>0</c:int>
42. <c:int>0</c:int>
43. <c:int>0</c:int>
44. <c:int>0</c:int>
45. <c:int>0</c:int>
46. <c:int>0</c:int>
47. <c:int>0</c:int>
48. <c:int>0</c:int>
49. </b:DailyUniqueUsers>
50. <b:EventType>1</b:EventType>
51. <b:ItemId>http://contoso.com/sites/4af361d7-f60e-4aa5-a23d-488e0536eda1</b:ItemId>
52. <b:LastProcessingHits>126</b:LastProcessingHits>
53. <b:LastProcessingTime>2011-11-15T00:00:00</b:LastProcessingTime>
54. <b:LastProcessingUniqueUsers>15</b:LastProcessingUniqueUsers>
55. <b:MonthlyHits xmlns:c="http://schemas.microsoft.com/2003/10/Serialization/Arrays">
56. <c:int>126</c:int>
57. <c:int>0</c:int>
58. <c:int>0</c:int>
59. <c:int>0</c:int>
60. <c:int>0</c:int>
61. <c:int>0</c:int>
62. <c:int>0</c:int>
63. <c:int>0</c:int>
64. <c:int>0</c:int>
65. <c:int>0</c:int>
66. <c:int>0</c:int>
67. <c:int>0</c:int>
68. <c:int>0</c:int>
69. <c:int>0</c:int>
70. <c:int>0</c:int>
71. <c:int>0</c:int>
72. <c:int>0</c:int>
73. <c:int>0</c:int>
74. <c:int>0</c:int>
75. <c:int>0</c:int>
76. <c:int>0</c:int>
77. <c:int>0</c:int>
78. <c:int>0</c:int>
79. <c:int>0</c:int>
80. <c:int>0</c:int>
81. <c:int>0</c:int>
82. <c:int>0</c:int>
83. <c:int>0</c:int>
84. <c:int>0</c:int>
85. <c:int>0</c:int>
86. <c:int>0</c:int>
87. <c:int>0</c:int>
88. <c:int>0</c:int>
89. <c:int>0</c:int>
90. <c:int>0</c:int>
91. <c:int>0</c:int>
92. <c:int>0</c:int>
93. </b:MonthlyHits>
94. <b:MonthlyUniqueUsers xmlns:c="http://schemas.microsoft.com/2003/10/Serialization/Arrays">
95. <c:int>15</c:int>
96. <c:int>0</c:int>
97. <c:int>0</c:int>
98. <c:int>0</c:int>
99. <c:int>0</c:int>
100. <c:int>0</c:int>
101. <c:int>0</c:int>
102. <c:int>0</c:int>
103. <c:int>0</c:int>
104. <c:int>0</c:int>
105. <c:int>0</c:int>
106. <c:int>0</c:int>
107. <c:int>0</c:int>
108. <c:int>0</c:int>
109. <c:int>0</c:int>
110. <c:int>0</c:int>
111. <c:int>0</c:int>
112. <c:int>0</c:int>
113. <c:int>0</c:int>
114. <c:int>0</c:int>
115. <c:int>0</c:int>
116. <c:int>0</c:int>
117. <c:int>0</c:int>
118. <c:int>0</c:int>
119. <c:int>0</c:int>
120. <c:int>0</c:int>
121. <c:int>0</c:int>
122. <c:int>0</c:int>
123. <c:int>0</c:int>
124. <c:int>0</c:int>
125. <c:int>0</c:int>
126. <c:int>0</c:int>
127. <c:int>0</c:int>
128. <c:int>0</c:int>
129. <c:int>0</c:int>
130. <c:int>0</c:int>
131. <c:int>0</c:int>
132. </b:MonthlyUniqueUsers>
133. <b:ScopeId>00000000-0000-0000-0000-000000000000</b:ScopeId>
134. <b:SiteId>a97351de-40a9-4e05-b938-161ecf62e806</b:SiteId>
135. <b:TenantId>00000000-0000-0000-0000-000000000000</b:TenantId>
136. <b:TotalHits>126</b:TotalHits>
137. <b:TotalUniqueUsers>15</b:TotalUniqueUsers>
138. </GetAnalyticsItemDataResult>
139. </GetAnalyticsItemDataResponse>
140. </s:Body>
141. </s:Envelope>

## Send Analytics Usage Events

In the following example, the protocol client sends a message as follows to add an event:

1. <s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope" xmlns:a="http://www.w3.org/2005/08/addressing" xmlns:u="Security">
2. <s:Header>
3. <a:Action s:mustUnderstand="1">http://tempuri.org/IAnalyticsServiceApplication/SendAnalyticsUsageEvents</a:Action>
4. <a:MessageID>urn:uuid:c54875f6-014b-4e86-b863-8f9463e08aac</a:MessageID>
5. <a:SequenceAcknowledgement>
6. <a:ReplyTo>http://www.w3.org/2005/08/addressing/anonymous</a:ReplyTo>
7. </a:SequenceAcknowledgement>
8. <ServiceContext xmlns="http://schemas.microsoft.com/sharepoint/servicecontext" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
9. <correlationId>00000000-0000-0000-0000-000000000000</correlationId>
10. <devdashboardIsEnabled>false</devdashboardIsEnabled>
11. <language>en-US</language>
12. <region>en-US</region>
13. <scopeId>878161965350913</scopeId>
14. <siteSubscriptionId i:nil="true">
15. </siteSubscriptionId>
16. <ulstraceOverrideLevel>0</ulstraceOverrideLevel>
17. </ServiceContext>
18. <a:To s:mustUnderstand="1" u:Id="\_1">http://contoso.com:32843/9970df23629e42a39aa9383e64b537c9/SearchService.svc</a:To>
19. </s:Header>
20. <s:Body>
21. <SendAnalyticsUsageEvents xmlns="http://tempuri.org/">
22. <entriesList xmlns:b="http://www.microsoft.com/sharepoint/search/KnownTypes/2011/01" xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
23. <b:AnalyticsUsageEvent>
24. <b:CustomData>
25. </b:CustomData>
26. <b:EventTypeId>1</b:EventTypeId>
27. <b:ItemId>http://testsite1/default.aspx</b:ItemId>
28. <b:ScopeId>f36a1ae4-7b87-44da-bb5b-77a9212d1204</b:ScopeId>
29. <b:SessionId>
30. </b:SessionId>
31. <b:SiteId>a97351de-40a9-4e05-b938-161ecf62e806</b:SiteId>
32. <b:TenantId>00000000-0000-0000-0000-000000000000</b:TenantId>
33. <b:TimeStamp>2011-11-18T19:37:43.8500837-08:00</b:TimeStamp>
34. <b:UserId>username1</b:UserId>
35. <b:Weight>1</b:Weight>
36. </b:AnalyticsUsageEvent>
37. <b:AnalyticsUsageEvent>
38. <b:CustomData>
39. </b:CustomData>
40. <b:EventTypeId>1</b:EventTypeId>
41. <b:ItemId>http://testsite1/default.aspx</b:ItemId>
42. <b:ScopeId>f36a1ae4-7b87-44da-bb5b-77a9212d1204</b:ScopeId>
43. <b:SessionId>
44. </b:SessionId>
45. <b:SiteId>a97351de-40a9-4e05-b938-161ecf62e806</b:SiteId>
46. <b:TenantId>00000000-0000-0000-0000-000000000000</b:TenantId>
47. <b:TimeStamp>2011-11-18T19:37:43.8500837-08:00</b:TimeStamp>
48. <b:UserId>username1</b:UserId>
49. <b:Weight>1</b:Weight>
50. </b:AnalyticsUsageEvent>
51. </entriesList>
52. </SendAnalyticsUsageEvents>
53. </s:Body>
54. </s:Envelope>

The protocol server responds as follows:

1. <s:Envelope xmlns:s="http://www.w3.org/2003/05/soap-envelope" xmlns:a="http://www.w3.org/2005/08/addressing" xmlns:u="Security">
2. <s:Header>
3. <a:Action s:mustUnderstand="1">http://tempuri.org/IAnalyticsServiceApplication/SendAnalyticsUsageEventsResponse</a:Action>
4. <ActivityId CorrelationId="a059bc44-a54a-43b6-a6da-f13cd582274f" xmlns="http://schemas.microsoft.com/2004/09/ServiceModel/Diagnostics">f5bdd7e7-86a3-41be-a15c-8d5eeeb9e01c</ActivityId>
5. <a:RelatesTo>urn:uuid:c54875f6-014b-4e86-b863-8f9463e08aac</a:RelatesTo>
6. <o:Timestamp s:mustUnderstand="1" xmlns:o="http://www.w3.org/2001/04/xmlenc#">
7. <u:Created u:Id="\_0">
8. <u:Expires>2011-11-19T03:38:30.045Z</u:Expires>
9. <u:Length>2011-11-19T03:43:30.045Z</u:Length>
10. </u:Created>
11. </o:Timestamp>
12. </s:Header>
13. <s:Body>
14. <SendAnalyticsUsageEventsResponse xmlns="http://tempuri.org/">
15. </SendAnalyticsUsageEventsResponse>
16. </s:Body>
17. </s:Envelope>

# Security

## Security Considerations for Implementers

None.

## Index of Security Parameters

None.

# Appendix A: Full WSDL

For ease of implementation, the full WSDL is provided in this appendix.

1. <?xml version="1.0" encoding="UTF-8"?>
2. <wsdl:definitions xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/" xmlns:tns="http://tempuri.org/" xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl" targetNamespace="http://tempuri.org/" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/">
3. <wsdl:types>
4. <xs:schema xmlns:tns3="http://tempuri.org/Imports" targetNamespace="http://tempuri.org/Imports">
5. <xs:import namespace="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Analytics"/>
6. <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/"/>
7. <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays"/>
8. <xs:import namespace="http://tempuri.org/"/>
9. <xs:import namespace="http://www.microsoft.com/sharepoint/search/KnownTypes/2011/01"/>
10. <xs:import namespace="http://www.microsoft.com/sharepoint/search/KnownTypes/2011/05"/>
11. <xs:import namespace="http://www.microsoft.com/sharepoint/search/KnownTypes/2011/09"/>
12. </xs:schema>
13. </wsdl:types>
14. <wsdl:portType name="IAnalyticsServiceApplication">
15. <wsdl:operation name="SendAnalyticsUsageEventsToEventStore">
16. <wsdl:input wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/SendAnalyticsUsageEventsToEventStore" message="tns:IAnalyticsServiceApplication\_SendAnalyticsUsageEventsToEventStore\_InputMessage"/>
17. <wsdl:output wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/SendAnalyticsUsageEventsToEventStoreResponse" message="tns:IAnalyticsServiceApplication\_SendAnalyticsUsageEventsToEventStore\_OutputMessage"/>
18. </wsdl:operation>
19. <wsdl:operation name="SendAnalyticsUsageEvents">
20. <wsdl:input wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/SendAnalyticsUsageEvents" message="tns:IAnalyticsServiceApplication\_SendAnalyticsUsageEvents\_InputMessage"/>
21. <wsdl:output wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/SendAnalyticsUsageEventsResponse" message="tns:IAnalyticsServiceApplication\_SendAnalyticsUsageEvents\_OutputMessage"/>
22. </wsdl:operation>
23. <wsdl:operation name="GetAnalyticsItemData">
24. <wsdl:input wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/GetAnalyticsItemData" message="tns:IAnalyticsServiceApplication\_GetAnalyticsItemData\_InputMessage"/>
25. <wsdl:output wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/GetAnalyticsItemDataResponse" message="tns:IAnalyticsServiceApplication\_GetAnalyticsItemData\_OutputMessage"/>
26. </wsdl:operation>
27. <wsdl:operation name="GetAnalyticsItemsData">
28. <wsdl:input wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/GetAnalyticsItemsData" message="tns:IAnalyticsServiceApplication\_GetAnalyticsItemsData\_InputMessage"/>
29. <wsdl:output wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/GetAnalyticsItemsDataResponse" message="tns:IAnalyticsServiceApplication\_GetAnalyticsItemsData\_OutputMessage"/>
30. </wsdl:operation>
31. <wsdl:operation name="GetGlobalAnalyticsItemDataBatch">
32. <wsdl:input wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/GetGlobalAnalyticsItemDataBatch" message="tns:IAnalyticsServiceApplication\_GetGlobalAnalyticsItemDataBatch\_InputMessage"/>
33. <wsdl:output wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/GetGlobalAnalyticsItemDataBatchResponse" message="tns:IAnalyticsServiceApplication\_GetGlobalAnalyticsItemDataBatch\_OutputMessage"/>
34. </wsdl:operation>
35. <wsdl:operation name="GetQueryTermsForUser">
36. <wsdl:input wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/GetQueryTermsForUser" message="tns:IAnalyticsServiceApplication\_GetQueryTermsForUser\_InputMessage"/>
37. <wsdl:output wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/GetQueryTermsForUserResponse" message="tns:IAnalyticsServiceApplication\_GetQueryTermsForUser\_OutputMessage"/>
38. </wsdl:operation>
39. <wsdl:operation name="GetRollupAnalyticsItemData">
40. <wsdl:input wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/GetRollupAnalyticsItemData" message="tns:IAnalyticsServiceApplication\_GetRollupAnalyticsItemData\_InputMessage"/>
41. <wsdl:output wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/GetRollupAnalyticsItemDataResponse" message="tns:IAnalyticsServiceApplication\_GetRollupAnalyticsItemData\_OutputMessage"/>
42. </wsdl:operation>
43. <wsdl:operation name="GetTenantAnalyticsItemData">
44. <wsdl:input wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/GetTenantAnalyticsItemData" message="tns:IAnalyticsServiceApplication\_GetTenantAnalyticsItemData\_InputMessage"/>
45. <wsdl:output wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/GetTenantAnalyticsItemDataResponse" message="tns:IAnalyticsServiceApplication\_GetTenantAnalyticsItemData\_OutputMessage"/>
46. </wsdl:operation>
47. <wsdl:operation name="GetSearchReport">
48. <wsdl:input wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/GetSearchReport" message="tns:IAnalyticsServiceApplication\_GetSearchReport\_InputMessage"/>
49. <wsdl:output wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/GetSearchReportResponse" message="tns:IAnalyticsServiceApplication\_GetSearchReport\_OutputMessage"/>
50. </wsdl:operation>
51. <wsdl:operation name="GetRawAnayticsTenantSettings">
52. <wsdl:input wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/GetRawAnayticsTenantSettings" message="tns:IAnalyticsServiceApplication\_GetRawAnayticsTenantSettings\_InputMessage"/>
53. <wsdl:output wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/GetRawAnayticsTenantSettingsResponse" message="tns:IAnalyticsServiceApplication\_GetRawAnayticsTenantSettings\_OutputMessage"/>
54. </wsdl:operation>
55. <wsdl:operation name="UpsertRawAnalyticsTenantSettings">
56. <wsdl:input wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/UpsertRawAnalyticsTenantSettings" message="tns:IAnalyticsServiceApplication\_UpsertRawAnalyticsTenantSettings\_InputMessage"/>
57. <wsdl:output wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/UpsertRawAnalyticsTenantSettingsResponse" message="tns:IAnalyticsServiceApplication\_UpsertRawAnalyticsTenantSettings\_OutputMessage"/>
58. </wsdl:operation>
59. <wsdl:operation name="GetRawAnalyticsTenantSettingsBatch">
60. <wsdl:input wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/GetRawAnalyticsTenantSettingsBatch" message="tns:IAnalyticsServiceApplication\_GetRawAnalyticsTenantSettingsBatch\_InputMessage"/>
61. <wsdl:output wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/GetRawAnalyticsTenantSettingsBatchResponse" message="tns:IAnalyticsServiceApplication\_GetRawAnalyticsTenantSettingsBatch\_OutputMessage"/>
62. </wsdl:operation>
63. <wsdl:operation name="GetAnalyticsTenantConfiguration">
64. <wsdl:input wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/GetAnalyticsTenantConfiguration" message="tns:IAnalyticsServiceApplication\_GetAnalyticsTenantConfiguration\_InputMessage"/>
65. <wsdl:output wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/GetAnalyticsTenantConfigurationResponse" message="tns:IAnalyticsServiceApplication\_GetAnalyticsTenantConfiguration\_OutputMessage"/>
66. </wsdl:operation>
67. <wsdl:operation name="GetAnalyticsEventTypeDefinition">
68. <wsdl:input wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/GetAnalyticsEventTypeDefinition" message="tns:IAnalyticsServiceApplication\_GetAnalyticsEventTypeDefinition\_InputMessage"/>
69. <wsdl:output wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/GetAnalyticsEventTypeDefinitionResponse" message="tns:IAnalyticsServiceApplication\_GetAnalyticsEventTypeDefinition\_OutputMessage"/>
70. </wsdl:operation>
71. <wsdl:operation name="GetAnalyticsEventTypeDefinitions">
72. <wsdl:input wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/GetAnalyticsEventTypeDefinitions" message="tns:IAnalyticsServiceApplication\_GetAnalyticsEventTypeDefinitions\_InputMessage"/>
73. <wsdl:output wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/GetAnalyticsEventTypeDefinitionsResponse" message="tns:IAnalyticsServiceApplication\_GetAnalyticsEventTypeDefinitions\_OutputMessage"/>
74. </wsdl:operation>
75. <wsdl:operation name="DeleteAllUsageDataForTenant">
76. <wsdl:input wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/DeleteAllUsageDataForTenant" message="tns:IAnalyticsServiceApplication\_DeleteAllUsageDataForTenant\_InputMessage"/>
77. <wsdl:output wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/DeleteAllUsageDataForTenantResponse" message="tns:IAnalyticsServiceApplication\_DeleteAllUsageDataForTenant\_OutputMessage"/>
78. </wsdl:operation>
79. <wsdl:operation name="DeleteRecommendationsDataForTenant">
80. <wsdl:input wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/DeleteRecommendationsDataForTenant" message="tns:IAnalyticsServiceApplication\_DeleteRecommendationsDataForTenant\_InputMessage"/>
81. <wsdl:output wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/DeleteRecommendationsDataForTenantResponse" message="tns:IAnalyticsServiceApplication\_DeleteRecommendationsDataForTenant\_OutputMessage"/>
82. </wsdl:operation>
83. <wsdl:operation name="DeleteStandardEventUsageDataForTenant">
84. <wsdl:input wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/DeleteStandardEventUsageDataForTenant" message="tns:IAnalyticsServiceApplication\_DeleteStandardEventUsageDataForTenant\_InputMessage"/>
85. <wsdl:output wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/DeleteStandardEventUsageDataForTenantResponse" message="tns:IAnalyticsServiceApplication\_DeleteStandardEventUsageDataForTenant\_OutputMessage"/>
86. </wsdl:operation>
87. <wsdl:operation name="DeleteCustomEventUsageDataForTenant">
88. <wsdl:input wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/DeleteCustomEventUsageDataForTenant" message="tns:IAnalyticsServiceApplication\_DeleteCustomEventUsageDataForTenant\_InputMessage"/>
89. <wsdl:output wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/DeleteCustomEventUsageDataForTenantResponse" message="tns:IAnalyticsServiceApplication\_DeleteCustomEventUsageDataForTenant\_OutputMessage"/>
90. </wsdl:operation>
91. <wsdl:operation name="DeleteStandardEventUsageDataForSite">
92. <wsdl:input wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/DeleteStandardEventUsageDataForSite" message="tns:IAnalyticsServiceApplication\_DeleteStandardEventUsageDataForSite\_InputMessage"/>
93. <wsdl:output wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/DeleteStandardEventUsageDataForSiteResponse" message="tns:IAnalyticsServiceApplication\_DeleteStandardEventUsageDataForSite\_OutputMessage"/>
94. </wsdl:operation>
95. <wsdl:operation name="DeleteCustomEventUsageDataForSite">
96. <wsdl:input wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/DeleteCustomEventUsageDataForSite" message="tns:IAnalyticsServiceApplication\_DeleteCustomEventUsageDataForSite\_InputMessage"/>
97. <wsdl:output wsaw:Action="http://tempuri.org/IAnalyticsServiceApplication/DeleteCustomEventUsageDataForSiteResponse" message="tns:IAnalyticsServiceApplication\_DeleteCustomEventUsageDataForSite\_OutputMessage"/>
98. </wsdl:operation>
99. </wsdl:portType>
100. <wsdl:binding name="DefaultBinding\_IAnalyticsServiceApplication" type="tns:IAnalyticsServiceApplication">
101. <soap:binding transport="http://schemas.xmlsoap.org/soap/http"/>
102. <wsdl:operation name="SendAnalyticsUsageEventsToEventStore">
103. <soap:operation soapAction="http://tempuri.org/IAnalyticsServiceApplication/SendAnalyticsUsageEventsToEventStore" style="document"/>
104. <wsdl:input>
105. <soap:body use="literal"/>
106. </wsdl:input>
107. <wsdl:output>
108. <soap:body use="literal"/>
109. </wsdl:output>
110. </wsdl:operation>
111. <wsdl:operation name="SendAnalyticsUsageEvents">
112. <soap:operation soapAction="http://tempuri.org/IAnalyticsServiceApplication/SendAnalyticsUsageEvents" style="document"/>
113. <wsdl:input>
114. <soap:body use="literal"/>
115. </wsdl:input>
116. <wsdl:output>
117. <soap:body use="literal"/>
118. </wsdl:output>
119. </wsdl:operation>
120. <wsdl:operation name="GetAnalyticsItemData">
121. <soap:operation soapAction="http://tempuri.org/IAnalyticsServiceApplication/GetAnalyticsItemData" style="document"/>
122. <wsdl:input>
123. <soap:body use="literal"/>
124. </wsdl:input>
125. <wsdl:output>
126. <soap:body use="literal"/>
127. </wsdl:output>
128. </wsdl:operation>
129. <wsdl:operation name="GetAnalyticsItemsData">
130. <soap:operation soapAction="http://tempuri.org/IAnalyticsServiceApplication/GetAnalyticsItemsData" style="document"/>
131. <wsdl:input>
132. <soap:body use="literal"/>
133. </wsdl:input>
134. <wsdl:output>
135. <soap:body use="literal"/>
136. </wsdl:output>
137. </wsdl:operation>
138. <wsdl:operation name="GetGlobalAnalyticsItemDataBatch">
139. <soap:operation soapAction="http://tempuri.org/IAnalyticsServiceApplication/GetGlobalAnalyticsItemDataBatch" style="document"/>
140. <wsdl:input>
141. <soap:body use="literal"/>
142. </wsdl:input>
143. <wsdl:output>
144. <soap:body use="literal"/>
145. </wsdl:output>
146. </wsdl:operation>
147. <wsdl:operation name="GetQueryTermsForUser">
148. <soap:operation soapAction="http://tempuri.org/IAnalyticsServiceApplication/GetQueryTermsForUser" style="document"/>
149. <wsdl:input>
150. <soap:body use="literal"/>
151. </wsdl:input>
152. <wsdl:output>
153. <soap:body use="literal"/>
154. </wsdl:output>
155. </wsdl:operation>
156. <wsdl:operation name="GetRollupAnalyticsItemData">
157. <soap:operation soapAction="http://tempuri.org/IAnalyticsServiceApplication/GetRollupAnalyticsItemData" style="document"/>
158. <wsdl:input>
159. <soap:body use="literal"/>
160. </wsdl:input>
161. <wsdl:output>
162. <soap:body use="literal"/>
163. </wsdl:output>
164. </wsdl:operation>
165. <wsdl:operation name="GetTenantAnalyticsItemData">
166. <soap:operation soapAction="http://tempuri.org/IAnalyticsServiceApplication/GetTenantAnalyticsItemData" style="document"/>
167. <wsdl:input>
168. <soap:body use="literal"/>
169. </wsdl:input>
170. <wsdl:output>
171. <soap:body use="literal"/>
172. </wsdl:output>
173. </wsdl:operation>
174. <wsdl:operation name="GetSearchReport">
175. <soap:operation soapAction="http://tempuri.org/IAnalyticsServiceApplication/GetSearchReport" style="document"/>
176. <wsdl:input>
177. <soap:body use="literal"/>
178. </wsdl:input>
179. <wsdl:output>
180. <soap:body use="literal"/>
181. </wsdl:output>
182. </wsdl:operation>
183. <wsdl:operation name="GetRawAnayticsTenantSettings">
184. <soap:operation soapAction="http://tempuri.org/IAnalyticsServiceApplication/GetRawAnayticsTenantSettings" style="document"/>
185. <wsdl:input>
186. <soap:body use="literal"/>
187. </wsdl:input>
188. <wsdl:output>
189. <soap:body use="literal"/>
190. </wsdl:output>
191. </wsdl:operation>
192. <wsdl:operation name="UpsertRawAnalyticsTenantSettings">
193. <soap:operation soapAction="http://tempuri.org/IAnalyticsServiceApplication/UpsertRawAnalyticsTenantSettings" style="document"/>
194. <wsdl:input>
195. <soap:body use="literal"/>
196. </wsdl:input>
197. <wsdl:output>
198. <soap:body use="literal"/>
199. </wsdl:output>
200. </wsdl:operation>
201. <wsdl:operation name="GetRawAnalyticsTenantSettingsBatch">
202. <soap:operation soapAction="http://tempuri.org/IAnalyticsServiceApplication/GetRawAnalyticsTenantSettingsBatch" style="document"/>
203. <wsdl:input>
204. <soap:body use="literal"/>
205. </wsdl:input>
206. <wsdl:output>
207. <soap:body use="literal"/>
208. </wsdl:output>
209. </wsdl:operation>
210. <wsdl:operation name="GetAnalyticsTenantConfiguration">
211. <soap:operation soapAction="http://tempuri.org/IAnalyticsServiceApplication/GetAnalyticsTenantConfiguration" style="document"/>
212. <wsdl:input>
213. <soap:body use="literal"/>
214. </wsdl:input>
215. <wsdl:output>
216. <soap:body use="literal"/>
217. </wsdl:output>
218. </wsdl:operation>
219. <wsdl:operation name="GetAnalyticsEventTypeDefinition">
220. <soap:operation soapAction="http://tempuri.org/IAnalyticsServiceApplication/GetAnalyticsEventTypeDefinition" style="document"/>
221. <wsdl:input>
222. <soap:body use="literal"/>
223. </wsdl:input>
224. <wsdl:output>
225. <soap:body use="literal"/>
226. </wsdl:output>
227. </wsdl:operation>
228. <wsdl:operation name="GetAnalyticsEventTypeDefinitions">
229. <soap:operation soapAction="http://tempuri.org/IAnalyticsServiceApplication/GetAnalyticsEventTypeDefinitions" style="document"/>
230. <wsdl:input>
231. <soap:body use="literal"/>
232. </wsdl:input>
233. <wsdl:output>
234. <soap:body use="literal"/>
235. </wsdl:output>
236. </wsdl:operation>
237. <wsdl:operation name="DeleteAllUsageDataForTenant">
238. <soap:operation soapAction="http://tempuri.org/IAnalyticsServiceApplication/DeleteAllUsageDataForTenant" style="document"/>
239. <wsdl:input>
240. <soap:body use="literal"/>
241. </wsdl:input>
242. <wsdl:output>
243. <soap:body use="literal"/>
244. </wsdl:output>
245. </wsdl:operation>
246. <wsdl:operation name="DeleteRecommendationsDataForTenant">
247. <soap:operation soapAction="http://tempuri.org/IAnalyticsServiceApplication/DeleteRecommendationsDataForTenant" style="document"/>
248. <wsdl:input>
249. <soap:body use="literal"/>
250. </wsdl:input>
251. <wsdl:output>
252. <soap:body use="literal"/>
253. </wsdl:output>
254. </wsdl:operation>
255. <wsdl:operation name="DeleteStandardEventUsageDataForTenant">
256. <soap:operation soapAction="http://tempuri.org/IAnalyticsServiceApplication/DeleteStandardEventUsageDataForTenant" style="document"/>
257. <wsdl:input>
258. <soap:body use="literal"/>
259. </wsdl:input>
260. <wsdl:output>
261. <soap:body use="literal"/>
262. </wsdl:output>
263. </wsdl:operation>
264. <wsdl:operation name="DeleteCustomEventUsageDataForTenant">
265. <soap:operation soapAction="http://tempuri.org/IAnalyticsServiceApplication/DeleteCustomEventUsageDataForTenant" style="document"/>
266. <wsdl:input>
267. <soap:body use="literal"/>
268. </wsdl:input>
269. <wsdl:output>
270. <soap:body use="literal"/>
271. </wsdl:output>
272. </wsdl:operation>
273. <wsdl:operation name="DeleteStandardEventUsageDataForSite">
274. <soap:operation soapAction="http://tempuri.org/IAnalyticsServiceApplication/DeleteStandardEventUsageDataForSite" style="document"/>
275. <wsdl:input>
276. <soap:body use="literal"/>
277. </wsdl:input>
278. <wsdl:output>
279. <soap:body use="literal"/>
280. </wsdl:output>
281. </wsdl:operation>
282. <wsdl:operation name="DeleteCustomEventUsageDataForSite">
283. <soap:operation soapAction="http://tempuri.org/IAnalyticsServiceApplication/DeleteCustomEventUsageDataForSite" style="document"/>
284. <wsdl:input>
285. <soap:body use="literal"/>
286. </wsdl:input>
287. <wsdl:output>
288. <soap:body use="literal"/>
289. </wsdl:output>
290. </wsdl:operation>
291. </wsdl:binding>
292. <wsdl:message name="IAnalyticsServiceApplication\_DeleteAllUsageDataForTenant\_InputMessage">
293. <wsdl:part name="parameters" element="tns:DeleteAllUsageDataForTenant"/>
294. </wsdl:message>
295. <wsdl:message name="IAnalyticsServiceApplication\_DeleteAllUsageDataForTenant\_OutputMessage">
296. <wsdl:part name="parameters" element="tns:DeleteAllUsageDataForTenantResponse"/>
297. </wsdl:message>
298. <wsdl:message name="IAnalyticsServiceApplication\_DeleteCustomEventUsageDataForSite\_InputMessage">
299. <wsdl:part name="parameters" element="tns:DeleteCustomEventUsageDataForSite"/>
300. </wsdl:message>
301. <wsdl:message name="IAnalyticsServiceApplication\_DeleteCustomEventUsageDataForSite\_OutputMessage">
302. <wsdl:part name="parameters" element="tns:DeleteCustomEventUsageDataForSiteResponse"/>
303. </wsdl:message>
304. <wsdl:message name="IAnalyticsServiceApplication\_DeleteCustomEventUsageDataForTenant\_InputMessage">
305. <wsdl:part name="parameters" element="tns:DeleteCustomEventUsageDataForTenant"/>
306. </wsdl:message>
307. <wsdl:message name="IAnalyticsServiceApplication\_DeleteCustomEventUsageDataForTenant\_OutputMessage">
308. <wsdl:part name="parameters" element="tns:DeleteCustomEventUsageDataForTenantResponse"/>
309. </wsdl:message>
310. <wsdl:message name="IAnalyticsServiceApplication\_DeleteRecommendationsDataForTenant\_InputMessage">
311. <wsdl:part name="parameters" element="tns:DeleteRecommendationsDataForTenant"/>
312. </wsdl:message>
313. <wsdl:message name="IAnalyticsServiceApplication\_DeleteRecommendationsDataForTenant\_OutputMessage">
314. <wsdl:part name="parameters" element="tns:DeleteRecommendationsDataForTenantResponse"/>
315. </wsdl:message>
316. <wsdl:message name="IAnalyticsServiceApplication\_DeleteStandardEventUsageDataForSite\_InputMessage">
317. <wsdl:part name="parameters" element="tns:DeleteStandardEventUsageDataForSite"/>
318. </wsdl:message>
319. <wsdl:message name="IAnalyticsServiceApplication\_DeleteStandardEventUsageDataForSite\_OutputMessage">
320. <wsdl:part name="parameters" element="tns:DeleteStandardEventUsageDataForSiteResponse"/>
321. </wsdl:message>
322. <wsdl:message name="IAnalyticsServiceApplication\_DeleteStandardEventUsageDataForTenant\_InputMessage">
323. <wsdl:part name="parameters" element="tns:DeleteStandardEventUsageDataForTenant"/>
324. </wsdl:message>
325. <wsdl:message name="IAnalyticsServiceApplication\_DeleteStandardEventUsageDataForTenant\_OutputMessage">
326. <wsdl:part name="parameters" element="tns:DeleteStandardEventUsageDataForTenantResponse"/>
327. </wsdl:message>
328. <wsdl:message name="IAnalyticsServiceApplication\_GetAnalyticsEventTypeDefinition\_InputMessage">
329. <wsdl:part name="parameters" element="tns:GetAnalyticsEventTypeDefinition"/>
330. </wsdl:message>
331. <wsdl:message name="IAnalyticsServiceApplication\_GetAnalyticsEventTypeDefinition\_OutputMessage">
332. <wsdl:part name="parameters" element="tns:GetAnalyticsEventTypeDefinitionResponse"/>
333. </wsdl:message>
334. <wsdl:message name="IAnalyticsServiceApplication\_GetAnalyticsEventTypeDefinitions\_InputMessage">
335. <wsdl:part name="parameters" element="tns:GetAnalyticsEventTypeDefinitions"/>
336. </wsdl:message>
337. <wsdl:message name="IAnalyticsServiceApplication\_GetAnalyticsEventTypeDefinitions\_OutputMessage">
338. <wsdl:part name="parameters" element="tns:GetAnalyticsEventTypeDefinitionsResponse"/>
339. </wsdl:message>
340. <wsdl:message name="IAnalyticsServiceApplication\_GetAnalyticsItemData\_InputMessage">
341. <wsdl:part name="parameters" element="tns:GetAnalyticsItemData"/>
342. </wsdl:message>
343. <wsdl:message name="IAnalyticsServiceApplication\_GetAnalyticsItemData\_OutputMessage">
344. <wsdl:part name="parameters" element="tns:GetAnalyticsItemDataResponse"/>
345. </wsdl:message>
346. <wsdl:message name="IAnalyticsServiceApplication\_GetAnalyticsItemsData\_InputMessage">
347. <wsdl:part name="parameters" element="tns:GetAnalyticsItemsData"/>
348. </wsdl:message>
349. <wsdl:message name="IAnalyticsServiceApplication\_GetAnalyticsItemsData\_OutputMessage">
350. <wsdl:part name="parameters" element="tns:GetAnalyticsItemsDataResponse"/>
351. </wsdl:message>
352. <wsdl:message name="IAnalyticsServiceApplication\_GetAnalyticsTenantConfiguration\_InputMessage">
353. <wsdl:part name="parameters" element="tns:GetAnalyticsTenantConfiguration"/>
354. </wsdl:message>
355. <wsdl:message name="IAnalyticsServiceApplication\_GetAnalyticsTenantConfiguration\_OutputMessage">
356. <wsdl:part name="parameters" element="tns:GetAnalyticsTenantConfigurationResponse"/>
357. </wsdl:message>
358. <wsdl:message name="IAnalyticsServiceApplication\_GetGlobalAnalyticsItemDataBatch\_InputMessage">
359. <wsdl:part name="parameters" element="tns:GetGlobalAnalyticsItemDataBatch"/>
360. </wsdl:message>
361. <wsdl:message name="IAnalyticsServiceApplication\_GetGlobalAnalyticsItemDataBatch\_OutputMessage">
362. <wsdl:part name="parameters" element="tns:GetGlobalAnalyticsItemDataBatchResponse"/>
363. </wsdl:message>
364. <wsdl:message name="IAnalyticsServiceApplication\_GetQueryTermsForUser\_InputMessage">
365. <wsdl:part name="parameters" element="tns:GetQueryTermsForUser"/>
366. </wsdl:message>
367. <wsdl:message name="IAnalyticsServiceApplication\_GetQueryTermsForUser\_OutputMessage">
368. <wsdl:part name="parameters" element="tns:GetQueryTermsForUserResponse"/>
369. </wsdl:message>
370. <wsdl:message name="IAnalyticsServiceApplication\_GetRawAnalyticsTenantSettingsBatch\_InputMessage">
371. <wsdl:part name="parameters" element="tns:GetRawAnalyticsTenantSettingsBatch"/>
372. </wsdl:message>
373. <wsdl:message name="IAnalyticsServiceApplication\_GetRawAnalyticsTenantSettingsBatch\_OutputMessage">
374. <wsdl:part name="parameters" element="tns:GetRawAnalyticsTenantSettingsBatchResponse"/>
375. </wsdl:message>
376. <wsdl:message name="IAnalyticsServiceApplication\_GetRawAnayticsTenantSettings\_InputMessage">
377. <wsdl:part name="parameters" element="tns:GetRawAnayticsTenantSettings"/>
378. </wsdl:message>
379. <wsdl:message name="IAnalyticsServiceApplication\_GetRawAnayticsTenantSettings\_OutputMessage">
380. <wsdl:part name="parameters" element="tns:GetRawAnayticsTenantSettingsResponse"/>
381. </wsdl:message>
382. <wsdl:message name="IAnalyticsServiceApplication\_GetRollupAnalyticsItemData\_InputMessage">
383. <wsdl:part name="parameters" element="tns:GetRollupAnalyticsItemData"/>
384. </wsdl:message>
385. <wsdl:message name="IAnalyticsServiceApplication\_GetRollupAnalyticsItemData\_OutputMessage">
386. <wsdl:part name="parameters" element="tns:GetRollupAnalyticsItemDataResponse"/>
387. </wsdl:message>
388. <wsdl:message name="IAnalyticsServiceApplication\_GetSearchReport\_InputMessage">
389. <wsdl:part name="parameters" element="tns:GetSearchReport"/>
390. </wsdl:message>
391. <wsdl:message name="IAnalyticsServiceApplication\_GetSearchReport\_OutputMessage">
392. <wsdl:part name="parameters" element="tns:GetSearchReportResponse"/>
393. </wsdl:message>
394. <wsdl:message name="IAnalyticsServiceApplication\_GetTenantAnalyticsItemData\_InputMessage">
395. <wsdl:part name="parameters" element="tns:GetTenantAnalyticsItemData"/>
396. </wsdl:message>
397. <wsdl:message name="IAnalyticsServiceApplication\_GetTenantAnalyticsItemData\_OutputMessage">
398. <wsdl:part name="parameters" element="tns:GetTenantAnalyticsItemDataResponse"/>
399. </wsdl:message>
400. <wsdl:message name="IAnalyticsServiceApplication\_SendAnalyticsUsageEvents\_InputMessage">
401. <wsdl:part name="parameters" element="tns:SendAnalyticsUsageEvents"/>
402. </wsdl:message>
403. <wsdl:message name="IAnalyticsServiceApplication\_SendAnalyticsUsageEvents\_OutputMessage">
404. <wsdl:part name="parameters" element="tns:SendAnalyticsUsageEventsResponse"/>
405. </wsdl:message>
406. <wsdl:message name="IAnalyticsServiceApplication\_SendAnalyticsUsageEventsToEventStore\_InputMessage">
407. <wsdl:part name="parameters" element="tns:SendAnalyticsUsageEventsToEventStore"/>
408. </wsdl:message>
409. <wsdl:message name="IAnalyticsServiceApplication\_SendAnalyticsUsageEventsToEventStore\_OutputMessage">
410. <wsdl:part name="parameters" element="tns:SendAnalyticsUsageEventsToEventStoreResponse"/>
411. </wsdl:message>
412. <wsdl:message name="IAnalyticsServiceApplication\_UpsertRawAnalyticsTenantSettings\_InputMessage">
413. <wsdl:part name="parameters" element="tns:UpsertRawAnalyticsTenantSettings"/>
414. </wsdl:message>
415. <wsdl:message name="IAnalyticsServiceApplication\_UpsertRawAnalyticsTenantSettings\_OutputMessage">
416. <wsdl:part name="parameters" element="tns:UpsertRawAnalyticsTenantSettingsResponse"/>
417. </wsdl:message>
418. </wsdl:definitions>

# Appendix B: Full XML Schema

| Schema name | Prefix | Section |
| --- | --- | --- |
| http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Analytics | tns1 | [7.1](#Section_4ebe7defbc3c4f3795ac5585e185c1cd) |
| http://schemas.microsoft.com/2003/10/Serialization/Arrays | tns2 | [7.2](#Section_7757e4f0cc8941f9a8cf7e1c25fb55a2) |
| http://schemas.microsoft.com/2003/10/Serialization/ | ser | [7.3](#Section_ec6f81d10e9c4b84a427da7c7d8c3191) |
| http://tempuri.org/ | tns | [7.4](#Section_ce36488f352140c5a42882e7c6d6cc03) |
| http://www.microsoft.com/sharepoint/search/KnownTypes/2011/01 | q1 | [7.5](#Section_e90039c22c8647aa837ab92516c89e63) |
| http://www.microsoft.com/sharepoint/search/KnownTypes/2011/05 | q36 | [7.6](#Section_711da0a53bab4446bc4746e8c4a52e52) |
| http://www.microsoft.com/sharepoint/search/KnownTypes/2011/09 | q27 | [7.7](#Section_dc76ce28457044c087f5a970c8333f1d) |

For ease of implementation, the following sections provide the full XML schema for this protocol.

## http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Analytics Schema

1. <?xml version="1.0" encoding="UTF-8"?>
2. <xs:schema xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Analytics" xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" elementFormDefault="qualified" targetNamespace="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Analytics" xmlns:xs="http://www.w3.org/2001/XMLSchema">
3. <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/"/>
4. <xs:complexType name="SignalStoreArguments">
5. <xs:sequence>
6. <xs:element minOccurs="0" name="ClientCorrelationId" type="ser:guid"/>
7. </xs:sequence>
8. </xs:complexType>
9. <xs:element name="SignalStoreArguments" nillable="true" type="tns1:SignalStoreArguments"/>
10. <xs:complexType name="SignalStoreResult">
11. <xs:sequence/>
12. </xs:complexType>
13. <xs:element name="SignalStoreResult" nillable="true" type="tns1:SignalStoreResult"/>
14. <xs:simpleType name="ContinuationTokenItemData.Scope">
15. <xs:restriction base="xs:string">
16. <xs:enumeration value="Global"/>
17. <xs:enumeration value="Tenant"/>
18. <xs:enumeration value="Site"/>
19. </xs:restriction>
20. </xs:simpleType>
21. <xs:element name="ContinuationTokenItemData.Scope" nillable="true" type="tns1:ContinuationTokenItemData.Scope"/>
22. <xs:simpleType name="EventCountType">
23. <xs:list>
24. <xs:simpleType>
25. <xs:restriction base="xs:string">
26. <xs:enumeration value="Count"/>
27. <xs:enumeration value="UniqueUsers"/>
28. </xs:restriction>
29. </xs:simpleType>
30. </xs:list>
31. </xs:simpleType>
32. <xs:element name="EventCountType" nillable="true" type="tns1:EventCountType"/>
33. <xs:simpleType name="EventOptions">
34. <xs:list>
35. <xs:simpleType>
36. <xs:restriction base="xs:string">
37. <xs:enumeration value="None"/>
38. <xs:enumeration value="AllowAnonymousWrite"/>
39. </xs:restriction>
40. </xs:simpleType>
41. </xs:list>
42. </xs:simpleType>
43. <xs:element name="EventOptions" nillable="true" type="tns1:EventOptions"/>
44. <xs:simpleType name="EventRollups">
45. <xs:list>
46. <xs:simpleType>
47. <xs:restriction base="xs:string">
48. <xs:enumeration value="SiteSubscriptionId"/>
49. <xs:enumeration value="SiteId"/>
50. <xs:enumeration value="ScopeId"/>
51. </xs:restriction>
52. </xs:simpleType>
53. </xs:list>
54. </xs:simpleType>
55. <xs:element name="EventRollups" nillable="true" type="tns1:EventRollups"/>
56. </xs:schema>

## http://schemas.microsoft.com/2003/10/Serialization/Arrays Schema

1. <?xml version="1.0" encoding="UTF-8"?>
2. <xs:schema xmlns:tns2="http://schemas.microsoft.com/2003/10/Serialization/Arrays" elementFormDefault="qualified" targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays" xmlns:xs="http://www.w3.org/2001/XMLSchema">
3. <xs:complexType name="ArrayOfKeyValueOfstringstring">
4. <xs:sequence>
5. <xs:element minOccurs="0" maxOccurs="unbounded" name="KeyValueOfstringstring">
6. <xs:complexType>
7. <xs:sequence>
8. <xs:element name="Key" nillable="true" type="xs:string"/>
9. <xs:element name="Value" nillable="true" type="xs:string"/>
10. </xs:sequence>
11. </xs:complexType>
12. </xs:element>
13. </xs:sequence>
14. </xs:complexType>
15. <xs:element name="ArrayOfKeyValueOfstringstring" nillable="true" type="tns2:ArrayOfKeyValueOfstringstring"/>
16. <xs:complexType name="ArrayOfint">
17. <xs:sequence>
18. <xs:element minOccurs="0" maxOccurs="unbounded" name="int" type="xs:int"/>
19. </xs:sequence>
20. </xs:complexType>
21. <xs:element name="ArrayOfint" nillable="true" type="tns2:ArrayOfint"/>
22. <xs:complexType name="ArrayOfstring">
23. <xs:sequence>
24. <xs:element minOccurs="0" maxOccurs="unbounded" name="string" nillable="true" type="xs:string"/>
25. </xs:sequence>
26. </xs:complexType>
27. <xs:element name="ArrayOfstring" nillable="true" type="tns2:ArrayOfstring"/>
28. </xs:schema>

## http://schemas.microsoft.com/2003/10/Serialization/ Schema

1. <?xml version="1.0" encoding="UTF-8"?>
2. <xs:schema xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" attributeFormDefault="qualified" elementFormDefault="qualified" targetNamespace="http://schemas.microsoft.com/2003/10/Serialization/" xmlns:xs="http://www.w3.org/2001/XMLSchema">
3. <xs:element name="anyType" nillable="true" type="xs:anyType"/>
4. <xs:element name="anyURI" nillable="true" type="xs:anyURI"/>
5. <xs:element name="base64Binary" nillable="true" type="xs:base64Binary"/>
6. <xs:element name="boolean" nillable="true" type="xs:boolean"/>
7. <xs:element name="byte" nillable="true" type="xs:byte"/>
8. <xs:element name="dateTime" nillable="true" type="xs:dateTime"/>
9. <xs:element name="decimal" nillable="true" type="xs:decimal"/>
10. <xs:element name="double" nillable="true" type="xs:double"/>
11. <xs:element name="float" nillable="true" type="xs:float"/>
12. <xs:element name="int" nillable="true" type="xs:int"/>
13. <xs:element name="long" nillable="true" type="xs:long"/>
14. <xs:element name="QName" nillable="true" type="xs:QName"/>
15. <xs:element name="short" nillable="true" type="xs:short"/>
16. <xs:element name="string" nillable="true" type="xs:string"/>
17. <xs:element name="unsignedByte" nillable="true" type="xs:unsignedByte"/>
18. <xs:element name="unsignedInt" nillable="true" type="xs:unsignedInt"/>
19. <xs:element name="unsignedLong" nillable="true" type="xs:unsignedLong"/>
20. <xs:element name="unsignedShort" nillable="true" type="xs:unsignedShort"/>
21. <xs:element name="char" nillable="true" type="ser:char"/>
22. <xs:simpleType name="char">
23. <xs:restriction base="xs:int"/>
24. </xs:simpleType>
25. <xs:element name="duration" nillable="true" type="ser:duration"/>
26. <xs:simpleType name="duration">
27. <xs:restriction base="xs:duration">
28. <xs:pattern value="\-?P(\d\*D)?(T(\d\*H)?(\d\*M)?(\d\*(\.\d\*)?S)?)?"/>
29. <xs:minInclusive value="-P10675199DT2H48M5.4775808S"/>
30. <xs:maxInclusive value="P10675199DT2H48M5.4775807S"/>
31. </xs:restriction>
32. </xs:simpleType>
33. <xs:element name="guid" nillable="true" type="ser:guid"/>
34. <xs:simpleType name="guid">
35. <xs:restriction base="xs:string">
36. <xs:pattern value="[\da-fA-F]{8}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{4}-[\da-fA-F]{12}"/>
37. </xs:restriction>
38. </xs:simpleType>
39. <xs:attribute name="FactoryType" type="xs:QName"/>
40. <xs:attribute name="Id" type="xs:ID"/>
41. <xs:attribute name="Ref" type="xs:IDREF"/>
42. </xs:schema>

## http://tempuri.org/ Schema

1. <?xml version="1.0" encoding="UTF-8"?>
2. <xs:schema elementFormDefault="qualified" targetNamespace="http://tempuri.org/" xmlns:xs="http://www.w3.org/2001/XMLSchema">
3. <xs:import namespace="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Analytics"/>
4. <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/"/>
5. <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays"/>
6. <xs:import namespace="http://www.microsoft.com/sharepoint/search/KnownTypes/2011/01"/>
7. <xs:import namespace="http://www.microsoft.com/sharepoint/search/KnownTypes/2011/05"/>
8. <xs:import namespace="http://www.microsoft.com/sharepoint/search/KnownTypes/2011/09"/>
9. <xs:element name="SendAnalyticsUsageEventsToEventStore">
10. <xs:complexType>
11. <xs:sequence>
12. <xs:element xmlns:q1="http://www.microsoft.com/sharepoint/search/KnownTypes/2011/01" minOccurs="0" name="entriesList" nillable="true" type="q1:ArrayOfAnalyticsUsageEvent"/>
13. </xs:sequence>
14. </xs:complexType>
15. </xs:element>
16. <xs:element name="SendAnalyticsUsageEventsToEventStoreResponse">
17. <xs:complexType>
18. <xs:sequence/>
19. </xs:complexType>
20. </xs:element>
21. <xs:element name="SendAnalyticsUsageEvents">
22. <xs:complexType>
23. <xs:sequence>
24. <xs:element xmlns:q1="http://www.microsoft.com/sharepoint/search/KnownTypes/2011/01" minOccurs="0" name="entriesList" nillable="true" type="q1:ArrayOfAnalyticsUsageEvent"/>
25. </xs:sequence>
26. </xs:complexType>
27. </xs:element>
28. <xs:element name="SendAnalyticsUsageEventsResponse">
29. <xs:complexType>
30. <xs:sequence/>
31. </xs:complexType>
32. </xs:element>
33. <xs:element name="SendAnalyticsSignals">
34. <xs:complexType>
35. <xs:sequence>
36. <xs:element xmlns:q1="http://www.microsoft.com/sharepoint/search/KnownTypes/2011/01" minOccurs="0" name="signals" nillable="true" type="q1:ArrayOfAnalyticsSignal"/>
37. </xs:sequence>
38. </xs:complexType>
39. </xs:element>
40. <xs:element name="SendAnalyticsSignalsResponse">
41. <xs:complexType>
42. <xs:sequence/>
43. </xs:complexType>
44. </xs:element>
45. <xs:element name="SendAnalyticsSignalsWithArguments">
46. <xs:complexType>
47. <xs:sequence>
48. <xs:element xmlns:q1="http://www.microsoft.com/sharepoint/search/KnownTypes/2011/01" minOccurs="0" name="signals" nillable="true" type="q1:ArrayOfAnalyticsSignal"/>
49. <xs:element xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Analytics" minOccurs="0" name="arguments" nillable="true" type="tns1:SignalStoreArguments"/>
50. </xs:sequence>
51. </xs:complexType>
52. </xs:element>
53. <xs:element name="SendAnalyticsSignalsWithArgumentsResponse">
54. <xs:complexType>
55. <xs:sequence>
56. <xs:element xmlns:tns1="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Analytics" minOccurs="0" name="SendAnalyticsSignalsWithArgumentsResult" nillable="true" type="tns1:SignalStoreResult"/>
57. </xs:sequence>
58. </xs:complexType>
59. </xs:element>
60. <xs:element name="GetAnalyticsItemData">
61. <xs:complexType>
62. <xs:sequence>
63. <xs:element minOccurs="0" name="eventType" type="xs:int"/>
64. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="tenantId" type="ser:guid"/>
65. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="siteId" type="ser:guid"/>
66. <xs:element minOccurs="0" name="itemId" nillable="true" type="xs:string"/>
67. </xs:sequence>
68. </xs:complexType>
69. </xs:element>
70. <xs:element name="GetAnalyticsItemDataResponse">
71. <xs:complexType>
72. <xs:sequence>
73. <xs:element xmlns:q1="http://www.microsoft.com/sharepoint/search/KnownTypes/2011/01" minOccurs="0" name="GetAnalyticsItemDataResult" nillable="true" type="q1:AnalyticsItemData"/>
74. </xs:sequence>
75. </xs:complexType>
76. </xs:element>
77. <xs:element name="GetAnalyticsItemsData">
78. <xs:complexType>
79. <xs:sequence>
80. <xs:element minOccurs="0" name="eventType" type="xs:int"/>
81. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="tenantId" type="ser:guid"/>
82. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="siteId" type="ser:guid"/>
83. <xs:element xmlns:tns2="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="itemIds" nillable="true" type="tns2:ArrayOfstring"/>
84. </xs:sequence>
85. </xs:complexType>
86. </xs:element>
87. <xs:element name="GetAnalyticsItemsDataResponse">
88. <xs:complexType>
89. <xs:sequence>
90. <xs:element xmlns:q1="http://www.microsoft.com/sharepoint/search/KnownTypes/2011/01" minOccurs="0" name="GetAnalyticsItemsDataResult" nillable="true" type="q1:ArrayOfAnalyticsItemData"/>
91. </xs:sequence>
92. </xs:complexType>
93. </xs:element>
94. <xs:element name="GetGlobalAnalyticsItemDataBatch">
95. <xs:complexType>
96. <xs:sequence>
97. <xs:element minOccurs="0" name="eventType" type="xs:int"/>
98. <xs:element minOccurs="0" name="since" type="xs:dateTime"/>
99. <xs:element minOccurs="0" name="batchSize" type="xs:int"/>
100. <xs:element xmlns:q1="http://www.microsoft.com/sharepoint/search/KnownTypes/2011/01" minOccurs="0" name="token" nillable="true" type="q1:ContinuationTokenItemData"/>
101. </xs:sequence>
102. </xs:complexType>
103. </xs:element>
104. <xs:element name="GetGlobalAnalyticsItemDataBatchResponse">
105. <xs:complexType>
106. <xs:sequence>
107. <xs:element xmlns:q1="http://www.microsoft.com/sharepoint/search/KnownTypes/2011/01" minOccurs="0" name="GetGlobalAnalyticsItemDataBatchResult" nillable="true" type="q1:AnalyticsItemDataBatch"/>
108. </xs:sequence>
109. </xs:complexType>
110. </xs:element>
111. <xs:element name="GetQueryTermsForUser">
112. <xs:complexType>
113. <xs:sequence>
114. <xs:element minOccurs="0" name="userName" nillable="true" type="xs:string"/>
115. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="tenantId" type="ser:guid"/>
116. <xs:element minOccurs="0" name="startTime" type="xs:dateTime"/>
117. </xs:sequence>
118. </xs:complexType>
119. </xs:element>
120. <xs:element name="GetQueryTermsForUserResponse">
121. <xs:complexType>
122. <xs:sequence>
123. <xs:element minOccurs="0" name="GetQueryTermsForUserResult" nillable="true" type="xs:string"/>
124. </xs:sequence>
125. </xs:complexType>
126. </xs:element>
127. <xs:element name="GetRollupAnalyticsItemData">
128. <xs:complexType>
129. <xs:sequence>
130. <xs:element minOccurs="0" name="eventType" type="xs:int"/>
131. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="tenantId" type="ser:guid"/>
132. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="siteId" type="ser:guid"/>
133. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="scopeId" type="ser:guid"/>
134. </xs:sequence>
135. </xs:complexType>
136. </xs:element>
137. <xs:element name="GetRollupAnalyticsItemDataResponse">
138. <xs:complexType>
139. <xs:sequence>
140. <xs:element xmlns:q1="http://www.microsoft.com/sharepoint/search/KnownTypes/2011/01" minOccurs="0" name="GetRollupAnalyticsItemDataResult" nillable="true" type="q1:AnalyticsItemData"/>
141. </xs:sequence>
142. </xs:complexType>
143. </xs:element>
144. <xs:element name="GetTenantAnalyticsItemData">
145. <xs:complexType>
146. <xs:sequence>
147. <xs:element minOccurs="0" name="eventType" type="xs:int"/>
148. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="tenantId" type="ser:guid"/>
149. </xs:sequence>
150. </xs:complexType>
151. </xs:element>
152. <xs:element name="GetTenantAnalyticsItemDataResponse">
153. <xs:complexType>
154. <xs:sequence>
155. <xs:element xmlns:q1="http://www.microsoft.com/sharepoint/search/KnownTypes/2011/01" minOccurs="0" name="GetTenantAnalyticsItemDataResult" nillable="true" type="q1:AnalyticsItemData"/>
156. </xs:sequence>
157. </xs:complexType>
158. </xs:element>
159. <xs:element name="GetSearchReport">
160. <xs:complexType>
161. <xs:sequence>
162. <xs:element minOccurs="0" name="reportType" type="xs:int"/>
163. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="tenantId" type="ser:guid"/>
164. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="siteId" type="ser:guid"/>
165. <xs:element minOccurs="0" name="reportDate" type="xs:dateTime"/>
166. <xs:element minOccurs="0" name="bDaily" type="xs:boolean"/>
167. <xs:element minOccurs="0" name="maxRows" type="xs:unsignedInt"/>
168. </xs:sequence>
169. </xs:complexType>
170. </xs:element>
171. <xs:element name="GetSearchReportResponse">
172. <xs:complexType>
173. <xs:sequence>
174. <xs:element xmlns:q1="http://www.microsoft.com/sharepoint/search/KnownTypes/2011/01" minOccurs="0" name="GetSearchReportResult" nillable="true" type="q1:ArrayOfQueryReportData"/>
175. </xs:sequence>
176. </xs:complexType>
177. </xs:element>
178. <xs:element name="GetRawAnayticsTenantSettings">
179. <xs:complexType>
180. <xs:sequence>
181. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="tenantId" type="ser:guid"/>
182. </xs:sequence>
183. </xs:complexType>
184. </xs:element>
185. <xs:element name="GetRawAnayticsTenantSettingsResponse">
186. <xs:complexType>
187. <xs:sequence>
188. <xs:element xmlns:q27="http://www.microsoft.com/sharepoint/search/KnownTypes/2011/09" minOccurs="0" name="GetRawAnayticsTenantSettingsResult" nillable="true" type="q27:AnalyticsTenantSettingsData"/>
189. </xs:sequence>
190. </xs:complexType>
191. </xs:element>
192. <xs:element name="UpsertRawAnalyticsTenantSettings">
193. <xs:complexType>
194. <xs:sequence>
195. <xs:element xmlns:q27="http://www.microsoft.com/sharepoint/search/KnownTypes/2011/09" minOccurs="0" name="ts" nillable="true" type="q27:AnalyticsTenantSettingsData"/>
196. </xs:sequence>
197. </xs:complexType>
198. </xs:element>
199. <xs:element name="UpsertRawAnalyticsTenantSettingsResponse">
200. <xs:complexType>
201. <xs:sequence/>
202. </xs:complexType>
203. </xs:element>
204. <xs:element name="GetRawAnalyticsTenantSettingsBatch">
205. <xs:complexType>
206. <xs:sequence>
207. <xs:element minOccurs="0" name="batchSize" type="xs:int"/>
208. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="lastTenantId" type="ser:guid"/>
209. </xs:sequence>
210. </xs:complexType>
211. </xs:element>
212. <xs:element name="GetRawAnalyticsTenantSettingsBatchResponse">
213. <xs:complexType>
214. <xs:sequence>
215. <xs:element xmlns:q27="http://www.microsoft.com/sharepoint/search/KnownTypes/2011/09" minOccurs="0" name="GetRawAnalyticsTenantSettingsBatchResult" nillable="true" type="q27:AnalyticsTenantSettingsDataBatch"/>
216. </xs:sequence>
217. </xs:complexType>
218. </xs:element>
219. <xs:element name="GetAnalyticsTenantConfiguration">
220. <xs:complexType>
221. <xs:sequence>
222. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="tenantId" type="ser:guid"/>
223. </xs:sequence>
224. </xs:complexType>
225. </xs:element>
226. <xs:element name="GetAnalyticsTenantConfigurationResponse">
227. <xs:complexType>
228. <xs:sequence>
229. <xs:element xmlns:q27="http://www.microsoft.com/sharepoint/search/KnownTypes/2011/09" minOccurs="0" name="GetAnalyticsTenantConfigurationResult" nillable="true" type="q27:AnalyticsTenantConfig"/>
230. </xs:sequence>
231. </xs:complexType>
232. </xs:element>
233. <xs:element name="GetAnalyticsEventTypeDefinition">
234. <xs:complexType>
235. <xs:sequence>
236. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="tenantId" type="ser:guid"/>
237. <xs:element minOccurs="0" name="eventType" type="xs:int"/>
238. </xs:sequence>
239. </xs:complexType>
240. </xs:element>
241. <xs:element name="GetAnalyticsEventTypeDefinitionResponse">
242. <xs:complexType>
243. <xs:sequence>
244. <xs:element xmlns:q1="http://www.microsoft.com/sharepoint/search/KnownTypes/2011/01" minOccurs="0" name="GetAnalyticsEventTypeDefinitionResult" nillable="true" type="q1:AnalyticsEventTypeDefinition"/>
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248. <xs:element name="GetAnalyticsEventTypeDefinitions">
249. <xs:complexType>
250. <xs:sequence>
251. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="tenantId" type="ser:guid"/>
252. <xs:element xmlns:q36="http://www.microsoft.com/sharepoint/search/KnownTypes/2011/05" minOccurs="0" name="filter" type="q36:AnalyticsEventTypes"/>
253. </xs:sequence>
254. </xs:complexType>
255. </xs:element>
256. <xs:element name="GetAnalyticsEventTypeDefinitionsResponse">
257. <xs:complexType>
258. <xs:sequence>
259. <xs:element xmlns:q1="http://www.microsoft.com/sharepoint/search/KnownTypes/2011/01" minOccurs="0" name="GetAnalyticsEventTypeDefinitionsResult" nillable="true" type="q1:ArrayOfAnalyticsEventTypeDefinition"/>
260. </xs:sequence>
261. </xs:complexType>
262. </xs:element>
263. <xs:element name="DeleteAllUsageDataForTenant">
264. <xs:complexType>
265. <xs:sequence>
266. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="tenantId" type="ser:guid"/>
267. </xs:sequence>
268. </xs:complexType>
269. </xs:element>
270. <xs:element name="DeleteAllUsageDataForTenantResponse">
271. <xs:complexType>
272. <xs:sequence/>
273. </xs:complexType>
274. </xs:element>
275. <xs:element name="DeleteRecommendationsDataForTenant">
276. <xs:complexType>
277. <xs:sequence>
278. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="tenantId" type="ser:guid"/>
279. </xs:sequence>
280. </xs:complexType>
281. </xs:element>
282. <xs:element name="DeleteRecommendationsDataForTenantResponse">
283. <xs:complexType>
284. <xs:sequence/>
285. </xs:complexType>
286. </xs:element>
287. <xs:element name="DeleteStandardEventUsageDataForTenant">
288. <xs:complexType>
289. <xs:sequence>
290. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="tenantId" type="ser:guid"/>
291. <xs:element minOccurs="0" name="eventType" type="xs:int"/>
292. </xs:sequence>
293. </xs:complexType>
294. </xs:element>
295. <xs:element name="DeleteStandardEventUsageDataForTenantResponse">
296. <xs:complexType>
297. <xs:sequence/>
298. </xs:complexType>
299. </xs:element>
300. <xs:element name="DeleteCustomEventUsageDataForTenant">
301. <xs:complexType>
302. <xs:sequence>
303. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="tenantId" type="ser:guid"/>
304. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="appEventTypeId" type="ser:guid"/>
305. </xs:sequence>
306. </xs:complexType>
307. </xs:element>
308. <xs:element name="DeleteCustomEventUsageDataForTenantResponse">
309. <xs:complexType>
310. <xs:sequence/>
311. </xs:complexType>
312. </xs:element>
313. <xs:element name="DeleteStandardEventUsageDataForSite">
314. <xs:complexType>
315. <xs:sequence>
316. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="tenantId" type="ser:guid"/>
317. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="siteId" type="ser:guid"/>
318. <xs:element minOccurs="0" name="eventType" type="xs:int"/>
319. </xs:sequence>
320. </xs:complexType>
321. </xs:element>
322. <xs:element name="DeleteStandardEventUsageDataForSiteResponse">
323. <xs:complexType>
324. <xs:sequence/>
325. </xs:complexType>
326. </xs:element>
327. <xs:element name="DeleteCustomEventUsageDataForSite">
328. <xs:complexType>
329. <xs:sequence>
330. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="tenantId" type="ser:guid"/>
331. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="siteId" type="ser:guid"/>
332. <xs:element xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" minOccurs="0" name="appEventTypeId" type="ser:guid"/>
333. </xs:sequence>
334. </xs:complexType>
335. </xs:element>
336. <xs:element name="DeleteCustomEventUsageDataForSiteResponse">
337. <xs:complexType>
338. <xs:sequence/>
339. </xs:complexType>
340. </xs:element>
341. </xs:schema>

## http://www.microsoft.com/sharepoint/search/KnownTypes/2011/01 Schema

1. <?xml version="1.0" encoding="UTF-8"?>
2. <xs:schema xmlns:q1="http://www.microsoft.com/sharepoint/search/KnownTypes/2011/01" xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" elementFormDefault="qualified" targetNamespace="http://www.microsoft.com/sharepoint/search/KnownTypes/2011/01" xmlns:xs="http://www.w3.org/2001/XMLSchema">
3. <xs:import namespace="http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Analytics"/>
4. <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/"/>
5. <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/Arrays"/>
6. <xs:complexType name="ArrayOfAnalyticsUsageEvent">
7. <xs:sequence>
8. <xs:element minOccurs="0" maxOccurs="unbounded" name="AnalyticsUsageEvent" nillable="true" type="q1:AnalyticsUsageEvent"/>
9. </xs:sequence>
10. </xs:complexType>
11. <xs:element name="ArrayOfAnalyticsUsageEvent" nillable="true" type="q1:ArrayOfAnalyticsUsageEvent"/>
12. <xs:complexType name="AnalyticsUsageEvent">
13. <xs:sequence>
14. <xs:element minOccurs="0" name="CustomData" nillable="true" type="xs:string"/>
15. <xs:element minOccurs="0" name="EventTypeId" type="xs:int"/>
16. <xs:element minOccurs="0" name="ItemId" nillable="true" type="xs:string"/>
17. <xs:element minOccurs="0" name="ScopeId" type="ser:guid"/>
18. <xs:element minOccurs="0" name="SessionId" nillable="true" type="xs:string"/>
19. <xs:element minOccurs="0" name="SiteId" type="ser:guid"/>
20. <xs:element minOccurs="0" name="TenantId" type="ser:guid"/>
21. <xs:element minOccurs="0" name="TimeStamp" type="xs:dateTime"/>
22. <xs:element minOccurs="0" name="UserId" nillable="true" type="xs:string"/>
23. <xs:element minOccurs="0" name="UserIdRaw" nillable="true" type="xs:string"/>
24. <xs:element minOccurs="0" name="Weight" type="xs:int"/>
25. </xs:sequence>
26. </xs:complexType>
27. <xs:element name="AnalyticsUsageEvent" nillable="true" type="q1:AnalyticsUsageEvent"/>
28. <xs:complexType name="ArrayOfAnalyticsSignal">
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31. </xs:sequence>
32. </xs:complexType>
33. <xs:element name="ArrayOfAnalyticsSignal" nillable="true" type="q1:ArrayOfAnalyticsSignal"/>
34. <xs:complexType name="AnalyticsSignal">
35. <xs:sequence>
36. <xs:element minOccurs="0" name="Action" nillable="true" type="q1:AnalyticsAction"/>
37. <xs:element minOccurs="0" name="Actor" nillable="true" type="q1:AnalyticsActor"/>
38. <xs:element minOccurs="0" name="Item" nillable="true" type="q1:AnalyticsItem"/>
39. <xs:element minOccurs="0" name="Source" nillable="true" type="xs:string"/>
40. </xs:sequence>
41. </xs:complexType>
42. <xs:element name="AnalyticsSignal" nillable="true" type="q1:AnalyticsSignal"/>
43. <xs:complexType name="AnalyticsAction">
44. <xs:sequence>
45. <xs:element minOccurs="0" name="ActionType" nillable="true" type="xs:string"/>
46. <xs:element minOccurs="0" name="ExpireTime" type="xs:dateTime"/>
47. <xs:element xmlns:tns2="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="Properties" nillable="true" type="tns2:ArrayOfKeyValueOfstringstring"/>
48. <xs:element minOccurs="0" name="UserTime" type="xs:dateTime"/>
49. </xs:sequence>
50. </xs:complexType>
51. <xs:element name="AnalyticsAction" nillable="true" type="q1:AnalyticsAction"/>
52. <xs:complexType name="AnalyticsActor">
53. <xs:sequence>
54. <xs:element minOccurs="0" name="Id" nillable="true" type="xs:string"/>
55. <xs:element xmlns:tns2="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="Properties" nillable="true" type="tns2:ArrayOfKeyValueOfstringstring"/>
56. <xs:element minOccurs="0" name="TenantId" type="ser:guid"/>
57. </xs:sequence>
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59. <xs:element name="AnalyticsActor" nillable="true" type="q1:AnalyticsActor"/>
60. <xs:complexType name="AnalyticsItem">
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62. <xs:element minOccurs="0" name="Id" nillable="true" type="xs:string"/>
63. <xs:element xmlns:tns2="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="Properties" nillable="true" type="tns2:ArrayOfKeyValueOfstringstring"/>
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70. <xs:element xmlns:tns2="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="DailyHits" nillable="true" type="tns2:ArrayOfint"/>
71. <xs:element xmlns:tns2="http://schemas.microsoft.com/2003/10/Serialization/Arrays" minOccurs="0" name="DailyUniqueUsers" nillable="true" type="tns2:ArrayOfint"/>
72. <xs:element minOccurs="0" name="EventType" type="xs:int"/>
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74. <xs:element minOccurs="0" name="LastProcessingHits" type="xs:int"/>
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96. <xs:element minOccurs="0" name="ItemHash" type="xs:int"/>
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133. <xs:element minOccurs="0" name="RelevanceWeight" type="xs:int"/>
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## http://www.microsoft.com/sharepoint/search/KnownTypes/2011/05 Schema

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2. <xs:schema xmlns:q36="http://www.microsoft.com/sharepoint/search/KnownTypes/2011/05" elementFormDefault="qualified" targetNamespace="http://www.microsoft.com/sharepoint/search/KnownTypes/2011/05" xmlns:xs="http://www.w3.org/2001/XMLSchema">
3. <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/"/>
4. <xs:simpleType name="AnalyticsEventTypes">
5. <xs:list>
6. <xs:simpleType>
7. <xs:restriction base="xs:string">
8. <xs:enumeration value="None"/>
9. <xs:enumeration value="Standard"/>
10. <xs:enumeration value="Custom"/>
11. <xs:enumeration value="Internal"/>
12. <xs:enumeration value="All"/>
13. <xs:enumeration value="AllIncludingInternal"/>
14. </xs:restriction>
15. </xs:simpleType>
16. </xs:list>
17. </xs:simpleType>
18. <xs:element name="AnalyticsEventTypes" nillable="true" type="q36:AnalyticsEventTypes"/>
19. </xs:schema>

## http://www.microsoft.com/sharepoint/search/KnownTypes/2011/09 Schema

1. <?xml version="1.0" encoding="UTF-8"?>
2. <xs:schema xmlns:q27="http://www.microsoft.com/sharepoint/search/KnownTypes/2011/09" xmlns:ser="http://schemas.microsoft.com/2003/10/Serialization/" elementFormDefault="qualified" targetNamespace="http://www.microsoft.com/sharepoint/search/KnownTypes/2011/09" xmlns:xs="http://www.w3.org/2001/XMLSchema">
3. <xs:import namespace="http://schemas.microsoft.com/2003/10/Serialization/"/>
4. <xs:complexType name="AnalyticsTenantSettingsData">
5. <xs:sequence>
6. <xs:element minOccurs="0" name="EventFilters" nillable="true" type="xs:base64Binary"/>
7. <xs:element minOccurs="0" name="EventTypeDefinitions" nillable="true" type="xs:base64Binary"/>
8. <xs:element minOccurs="0" name="LastUpdateTime" type="xs:dateTime"/>
9. <xs:element minOccurs="0" name="Options" type="q27:AnalyticsTenantSettingOptions"/>
10. <xs:element minOccurs="0" name="TenantId" type="ser:guid"/>
11. <xs:element minOccurs="0" name="Version" type="xs:int"/>
12. </xs:sequence>
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14. <xs:element name="AnalyticsTenantSettingsData" nillable="true" type="q27:AnalyticsTenantSettingsData"/>
15. <xs:simpleType name="AnalyticsTenantSettingOptions">
16. <xs:list>
17. <xs:simpleType>
18. <xs:restriction base="xs:string"/>
19. </xs:simpleType>
20. </xs:list>
21. </xs:simpleType>
22. <xs:element name="AnalyticsTenantSettingOptions" nillable="true" type="q27:AnalyticsTenantSettingOptions"/>
23. <xs:complexType name="AnalyticsTenantSettingsDataBatch">
24. <xs:sequence>
25. <xs:element minOccurs="0" name="LastTenantId" type="ser:guid"/>
26. <xs:element minOccurs="0" name="Settings" nillable="true" type="q27:ArrayOfAnalyticsTenantSettingsData"/>
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28. </xs:complexType>
29. <xs:element name="AnalyticsTenantSettingsDataBatch" nillable="true" type="q27:AnalyticsTenantSettingsDataBatch"/>
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36. <xs:complexType name="AnalyticsTenantConfig">
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39. </xs:sequence>
40. </xs:complexType>
41. <xs:element name="AnalyticsTenantConfig" nillable="true" type="q27:AnalyticsTenantConfig"/>
42. </xs:schema>

# Appendix C: Product Behavior

The information in this specification is applicable to the following Microsoft products or supplemental software. References to product versions include updates to those products.

* Microsoft SharePoint Server 2013
* Microsoft SharePoint Server 2016
* Microsoft SharePoint Server 2019

Exceptions, if any, are noted in this section. If an update version, service pack or Knowledge Base (KB) number appears with a product name, the behavior changed in that update. The new behavior also applies to subsequent updates 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.

# Change Tracking

This section identifies changes that were made to this document since the last release. Changes are classified as Major, Minor, or None.

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.
* A document revision that captures changes to protocol functionality.

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 **None** means that no new technical changes were introduced. Minor editorial and formatting changes may have been made, but the relevant technical content is identical to the last released version.

The changes made to this document are listed in the following table. For more information, please contact dochelp@microsoft.com.

| Section | Description | Revision class |
| --- | --- | --- |
| [2.2.4.4](#Section_dd749f939c3c42858d6dfa76f676c255) AnalyticsUsageEvent | Restored content in this section. | Minor |
| [2.2.4.6](#Section_dc3609f33b15427baf862ce7a7bbaba4) ArrayOfAnalyticsUsageEvent | Restored content in this section. | Minor |

# Index

A

Abstract data model

 [server](#section_7c3f8850bb1644299668c38a70c241db) 25

[AnalyticsEventTypeDefinition complex type](#section_de5ee08898634ed1a9ae87ebf255b370) 16

[AnalyticsItemData complex type](#section_90731eef98cd4efba9f6054f038b9f1a) 17

[AnalyticsTenantSettingOptions simple type](#section_6452fbcd0d7448bea8ac11de10250292) 21

[AnalyticsTenantSettingsData complex type](#section_ad440ec692214dd3a8fe07b5618b7212) 18

[AnalyticsUsageEvent complex type](#section_dd749f939c3c42858d6dfa76f676c255) 19

[Applicability](#section_fd599b0134b34280a126467269f00a2e) 13

[ArrayOfAnalyticsItemData complex type](#section_7abf4a32694d4b47acd9ef69406b37ca) 19

[ArrayOfAnalyticsUsageEvent complex type](#section_dc3609f33b15427baf862ce7a7bbaba4) 20

[ArrayOfint complex type](#section_6bf4863eefc5425e9d21164f4d1c2161) 20

[Attribute groups](#section_f622abc47f474c99b2078a84a7b6e93b) 24

[Attributes](#section_399c181c8da540d49b4ee195c9942f7d) 23

C

[Capability negotiation](#section_8c1c3acb69bd472da7ea084147acb546) 13

[Change tracking](#section_b231bf0541ae4c979bf271b701280047) 114

[char simple type](#section_f6b769e547a14237bc7b7c256f2581ca) 21

[Complex types](#section_ed689233a490441896d2983442e37975) 16

 [AnalyticsEventTypeDefinition](#section_de5ee08898634ed1a9ae87ebf255b370) 16

 [AnalyticsItemData](#section_90731eef98cd4efba9f6054f038b9f1a) 17

 [AnalyticsTenantSettingsData](#section_ad440ec692214dd3a8fe07b5618b7212) 18

 [AnalyticsUsageEvent](#section_dd749f939c3c42858d6dfa76f676c255) 19

 [ArrayOfAnalyticsItemData](#section_7abf4a32694d4b47acd9ef69406b37ca) 19

 [ArrayOfAnalyticsUsageEvent](#section_dc3609f33b15427baf862ce7a7bbaba4) 20

 [ArrayOfint](#section_6bf4863eefc5425e9d21164f4d1c2161) 20

D

Data model - abstract

 [server](#section_7c3f8850bb1644299668c38a70c241db) 25

[Delete all usage data for a tenant example](#section_3e0e254eed0b419995b2f2639d86295b) 83

[duration simple type](#section_ed719d00556a4cde813720b4eeecce36) 21

E

[EventCountType simple type](#section_b7f4a880c1f447c29e170f9ebb798420) 22

[EventOptions simple type](#section_fea2ad5b1bcb489cb626b3b723dcaf30) 22

[EventRollups simple type](#section_337579ff9fd948b28d7cd8a54a3d1ffc) 23

Events

 [local - server](#section_a3e1b98493fa4027bef50e1807745e61) 82

 [timer - server](#section_10c64dfdeb6b497f842b6a7b09854fb1) 82

Examples

 [Delete all usage data for a tenant](#section_3e0e254eed0b419995b2f2639d86295b) 83

 [Get an analytics event type definition](#section_5148f0f5fa1142d9acc68f33f37236b6) 84

 [Get analytics item data](#section_fc62beb498ed4c8d8975a10e21dc3f91) 85

 [Send analytics usage events](#section_c1cdce1fde0d4472840ae02f492985eb) 88

F

[Fields - vendor-extensible](#section_207fde138389422f946e316c0b519929) 14

[Full WSDL](#section_f416d072a2254f14a46196b3a43e6eec) 91

[Full XML schema](#section_0ee562ddb29348bb8d6effb01e904188) 100

 [http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Analytics Schema](#section_4ebe7defbc3c4f3795ac5585e185c1cd) 100

 [http://schemas.microsoft.com/2003/10/Serialization/ Schema](#section_ec6f81d10e9c4b84a427da7c7d8c3191) 101

 [http://schemas.microsoft.com/2003/10/Serialization/Arrays Schema](#section_7757e4f0cc8941f9a8cf7e1c25fb55a2) 101

 [http://tempuri.org/ Schema](#section_ce36488f352140c5a42882e7c6d6cc03) 102

 [http://www.microsoft.com/sharepoint/search/KnownTypes/2011/01 Schema](#section_e90039c22c8647aa837ab92516c89e63) 108

 [http://www.microsoft.com/sharepoint/search/KnownTypes/2011/05 Schema](#section_711da0a53bab4446bc4746e8c4a52e52) 111

 [http://www.microsoft.com/sharepoint/search/KnownTypes/2011/09 Schema](#section_dc76ce28457044c087f5a970c8333f1d) 111

G

[Get an analytics event type definition example](#section_5148f0f5fa1142d9acc68f33f37236b6) 84

[Get analytics item data example](#section_fc62beb498ed4c8d8975a10e21dc3f91) 85

[Glossary](#section_ee3207b886694e35a613b7293314517a) 10

[Groups](#section_eed853c075fd40edaa9beacc9504f6e0) 23

[guid simple type](#section_af7a64b605a34b97befda0c8942ff5df) 23

I

[Implementer - security considerations](#section_98b34dae46224c8ca6ef0927d19fe2ea) 90

[Index of security parameters](#section_3e53f59c67a94f23b2815d553d954906) 90

[Informative references](#section_dacff3db3cf14e21a9aff1c9c595039f) 12

Initialization

 [server](#section_9436a063d343453a898bd7f4306d0926) 26

[Introduction](#section_4422e21b45694fadba552ae069a0479b) 10

L

Local events

 [server](#section_a3e1b98493fa4027bef50e1807745e61) 82

M

Message processing

 [server](#section_55e011ffba4e4defb1f132c063f0f753) 26

Messages

 [AnalyticsEventTypeDefinition complex type](#section_de5ee08898634ed1a9ae87ebf255b370) 16

 [AnalyticsItemData complex type](#section_90731eef98cd4efba9f6054f038b9f1a) 17

 [AnalyticsTenantSettingOptions simple type](#section_6452fbcd0d7448bea8ac11de10250292) 21

 [AnalyticsTenantSettingsData complex type](#section_ad440ec692214dd3a8fe07b5618b7212) 18

 [AnalyticsUsageEvent complex type](#section_dd749f939c3c42858d6dfa76f676c255) 19

 [ArrayOfAnalyticsItemData complex type](#section_7abf4a32694d4b47acd9ef69406b37ca) 19

 [ArrayOfAnalyticsUsageEvent complex type](#section_dc3609f33b15427baf862ce7a7bbaba4) 20

 [ArrayOfint complex type](#section_6bf4863eefc5425e9d21164f4d1c2161) 20

 [attribute groups](#section_f622abc47f474c99b2078a84a7b6e93b) 24

 [attributes](#section_399c181c8da540d49b4ee195c9942f7d) 23

 [char simple type](#section_f6b769e547a14237bc7b7c256f2581ca) 21

 [complex types](#section_ed689233a490441896d2983442e37975) 16

 [duration simple type](#section_ed719d00556a4cde813720b4eeecce36) 21

 [elements](#section_5654c9ec4d98473d9cbc402b0df38a0a) 16

 [enumerated](#section_6d3cb6e765e9437bb47986d9c2f21490) 16

 [EventCountType simple type](#section_b7f4a880c1f447c29e170f9ebb798420) 22

 [EventOptions simple type](#section_fea2ad5b1bcb489cb626b3b723dcaf30) 22

 [EventRollups simple type](#section_337579ff9fd948b28d7cd8a54a3d1ffc) 23

 [groups](#section_eed853c075fd40edaa9beacc9504f6e0) 23

 [guid simple type](#section_af7a64b605a34b97befda0c8942ff5df) 23

 [namespaces](#section_104edb1a585e4c5f84cec255da461192) 15

 [simple types](#section_8ea5e47d38214629afbb2ca9bf5c9c35) 20

 [syntax](#section_993f9328cf4b4a56bb5f274b94c08812) 15

 [transport](#section_39970608416644d5b7d835d241f8525e) 15

N

[Namespaces](#section_104edb1a585e4c5f84cec255da461192) 15

[Normative references](#section_6fd39b8eebf741d09af2d5082cfc1085) 12

O

Operations

 [DeleteAllUsageDataForTenant](#section_f22d1401e85d42ef8cc003678927cad1) 27

 [DeleteCustomEventUsageDataForSite](#section_32dcc5cb06a94192a7b7a6d225acd18e) 29

 [DeleteCustomEventUsageDataForTenant](#section_a9121dbc682641479a00cf214f922340) 31

 [DeleteRecommendationsDataForTenant](#section_4e91a4bf262d41bc91e1e4c1c42aec7e) 34

 [DeleteStandardEventUsageDataForSite](#section_c5a6979a484a4dffbe65781e859dc5ab) 36

 [DeleteStandardEventUsageDataForTenant](#section_ddee4c71cb5d4a9c884c919d38f9ab9b) 39

 [GetAnalyticsEventTypeDefinition](#section_36ba47f7be1544c89ad3f13c8d58a1ba) 41

 [GetAnalyticsEventTypeDefinitions](#section_fbeeff6b7f3a4254a60d33d0e0333a4d) 44

 [GetAnalyticsItemData](#section_553334feecf94e61973a9db2b543213f) 47

 [GetAnalyticsItemsData](#section_4a540c26a4784ba1bf55135bd5ac2ec5) 50

 [GetAnalyticsTenantConfiguration](#section_f695c49f55c047dda9fd5b19d941faec) 52

 [GetGlobalAnalyticsItemDataBatch](#section_c7b1f2351dc24a5bbaaf88e9c236fbeb) 55

 [GetQueryTermsForUser](#section_52209613c5b94600a7fb83e9d49f3cc0) 78

 [GetRawAnalyticsTenantSettingsBatch](#section_e7b16ff36eb3465fbb18ab4f8c878cf9) 62

 [GetRawAnayticsTenantSettings](#section_69fb6eeef56349e888eb98295b1f67bc) 59

 [GetRollupAnalyticsItemData](#section_96967bebf6554f2bbfade274c8a077d8) 65

 [GetSearchReport](#section_496efa04ce6d46578c40e81303b206ff) 68

 [GetTenantAnalyticsItemData](#section_fd7f92491e20450e9e2a0ce019d62430) 71

 [SendAnalyticsUsageEvents](#section_3a2cc3f6ebae42bdaf108481c09f10e7) 73

 [SendAnalyticsUsageEventsToEventStore](#section_64d840baf9f9449c83ced88958ef86e3) 80

 [UpsertRawAnalyticsTenantSettings](#section_75880434ba394d0c969cd4e443bcbbc6) 75

[Overview (synopsis)](#section_62c5029720254327a448c6373fb68989) 12

P

[Parameters - security index](#section_3e53f59c67a94f23b2815d553d954906) 90

[Preconditions](#section_e0cd6b8dd2d44ac6892d30f1fa6e7a51) 13

[Prerequisites](#section_e0cd6b8dd2d44ac6892d30f1fa6e7a51) 13

[Product behavior](#section_a8b7517e7c664791ba3c90d367653b8c) 113

Protocol Details

 [overview](#section_bbfb33180bf64c23b40ddc5f71312ae7) 25

R

[References](#section_6be0023c04f74dc68cea4e78bbdab9e4) 11

 [informative](#section_dacff3db3cf14e21a9aff1c9c595039f) 12

 [normative](#section_6fd39b8eebf741d09af2d5082cfc1085) 12

[Relationship to other protocols](#section_f45b03a807814693bc813cbf60a4f0c6) 13

S

Security

 [implementer considerations](#section_98b34dae46224c8ca6ef0927d19fe2ea) 90

 [parameter index](#section_3e53f59c67a94f23b2815d553d954906) 90

[Send analytics usage events example](#section_c1cdce1fde0d4472840ae02f492985eb) 88

Sequencing rules

 [server](#section_55e011ffba4e4defb1f132c063f0f753) 26

Server

 [abstract data model](#section_7c3f8850bb1644299668c38a70c241db) 25

 [DeleteAllUsageDataForTenant operation](#section_f22d1401e85d42ef8cc003678927cad1) 27

 [DeleteCustomEventUsageDataForSite operation](#section_32dcc5cb06a94192a7b7a6d225acd18e) 29

 [DeleteCustomEventUsageDataForTenant operation](#section_a9121dbc682641479a00cf214f922340) 31

 [DeleteRecommendationsDataForTenant operation](#section_4e91a4bf262d41bc91e1e4c1c42aec7e) 34

 [DeleteStandardEventUsageDataForSite operation](#section_c5a6979a484a4dffbe65781e859dc5ab) 36

 [DeleteStandardEventUsageDataForTenant operation](#section_ddee4c71cb5d4a9c884c919d38f9ab9b) 39

 [GetAnalyticsEventTypeDefinition operation](#section_36ba47f7be1544c89ad3f13c8d58a1ba) 41

 [GetAnalyticsEventTypeDefinitions operation](#section_fbeeff6b7f3a4254a60d33d0e0333a4d) 44

 [GetAnalyticsItemData operation](#section_553334feecf94e61973a9db2b543213f) 47

 [GetAnalyticsItemsData operation](#section_4a540c26a4784ba1bf55135bd5ac2ec5) 50

 [GetAnalyticsTenantConfiguration operation](#section_f695c49f55c047dda9fd5b19d941faec) 52

 [GetGlobalAnalyticsItemDataBatch operation](#section_c7b1f2351dc24a5bbaaf88e9c236fbeb) 55

 [GetQueryTermsForUser operation](#section_52209613c5b94600a7fb83e9d49f3cc0) 78

 [GetRawAnalyticsTenantSettingsBatch operation](#section_e7b16ff36eb3465fbb18ab4f8c878cf9) 62

 [GetRawAnayticsTenantSettings operation](#section_69fb6eeef56349e888eb98295b1f67bc) 59

 [GetRollupAnalyticsItemData operation](#section_96967bebf6554f2bbfade274c8a077d8) 65

 [GetSearchReport operation](#section_496efa04ce6d46578c40e81303b206ff) 68

 [GetTenantAnalyticsItemData operation](#section_fd7f92491e20450e9e2a0ce019d62430) 71

 [initialization](#section_9436a063d343453a898bd7f4306d0926) 26

 [local events](#section_a3e1b98493fa4027bef50e1807745e61) 82

 [message processing](#section_55e011ffba4e4defb1f132c063f0f753) 26

 [SendAnalyticsUsageEvents operation](#section_3a2cc3f6ebae42bdaf108481c09f10e7) 73

 [SendAnalyticsUsageEventsToEventStore operation](#section_64d840baf9f9449c83ced88958ef86e3) 80

 [sequencing rules](#section_55e011ffba4e4defb1f132c063f0f753) 26

 [timer events](#section_10c64dfdeb6b497f842b6a7b09854fb1) 82

 [timers](#section_468fd8e0adba4122bcbfe51bdb242cd3) 26

 [UpsertRawAnalyticsTenantSettings operation](#section_75880434ba394d0c969cd4e443bcbbc6) 75

[Simple types](#section_8ea5e47d38214629afbb2ca9bf5c9c35) 20

 [AnalyticsTenantSettingOptions](#section_6452fbcd0d7448bea8ac11de10250292) 21

 [char](#section_f6b769e547a14237bc7b7c256f2581ca) 21

 [duration](#section_ed719d00556a4cde813720b4eeecce36) 21

 [EventCountType](#section_b7f4a880c1f447c29e170f9ebb798420) 22

 [EventOptions](#section_fea2ad5b1bcb489cb626b3b723dcaf30) 22

 [EventRollups](#section_337579ff9fd948b28d7cd8a54a3d1ffc) 23

 [guid](#section_af7a64b605a34b97befda0c8942ff5df) 23

[Standards assignments](#section_4f4de40ba1cd401baa6afbaedc3a8f81) 14

Syntax

 [messages - overview](#section_993f9328cf4b4a56bb5f274b94c08812) 15

T

Timer events

 [server](#section_10c64dfdeb6b497f842b6a7b09854fb1) 82

Timers

 [server](#section_468fd8e0adba4122bcbfe51bdb242cd3) 26

[Tracking changes](#section_b231bf0541ae4c979bf271b701280047) 114

[Transport](#section_39970608416644d5b7d835d241f8525e) 15

Types

 [complex](#section_ed689233a490441896d2983442e37975) 16

 [simple](#section_8ea5e47d38214629afbb2ca9bf5c9c35) 20

V

[Vendor-extensible fields](#section_207fde138389422f946e316c0b519929) 14

[Versioning](#section_8c1c3acb69bd472da7ea084147acb546) 13

W

[WSDL](#section_f416d072a2254f14a46196b3a43e6eec) 91

X

[XML schema](#section_0ee562ddb29348bb8d6effb01e904188) 100

 [http://schemas.datacontract.org/2004/07/Microsoft.Office.Server.Search.Analytics Schema](#section_4ebe7defbc3c4f3795ac5585e185c1cd) 100

 [http://schemas.microsoft.com/2003/10/Serialization/ Schema](#section_ec6f81d10e9c4b84a427da7c7d8c3191) 101

 [http://schemas.microsoft.com/2003/10/Serialization/Arrays Schema](#section_7757e4f0cc8941f9a8cf7e1c25fb55a2) 101

 [http://tempuri.org/ Schema](#section_ce36488f352140c5a42882e7c6d6cc03) 102

 [http://www.microsoft.com/sharepoint/search/KnownTypes/2011/01 Schema](#section_e90039c22c8647aa837ab92516c89e63) 108

 [http://www.microsoft.com/sharepoint/search/KnownTypes/2011/05 Schema](#section_711da0a53bab4446bc4746e8c4a52e52) 111

 [http://www.microsoft.com/sharepoint/search/KnownTypes/2011/09 Schema](#section_dc76ce28457044c087f5a970c8333f1d) 111