Metrics

XML Technical Specification

V1.1

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Introduction

# Purpose

This document describes the XML format of the Analytics for Multiple Projects (AMP) report data.  AMP XML report files are used to load reports and their metrics into AMP for later reporting.

# Summary of Change

|  |  |  |
| --- | --- | --- |
| Change | Version | Owner |
| Initial Version | 1.0 | Soundra |
| Review based changes | 1.1 | Soundra |
|  |  |  |

Schema Specification

# XML Schema

The Metrics XML is validated against the latest XSD for Metrics Data. This section lists the XSDs used for validating.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| XSD Name | Status | Date | Comments | Document |
| MOTS\_Metrics\_v1.xsd | Current | 1/10/2016 | Initial Metrics XSD |  |

These files define the valid data elements for Metric submission, the hierarchy and sequencing of these elements, data types, valid values, maximum lengths, number of occurrences, etc.

It is recommended that you download this file and use them for your own validation prior to submitting the metric data. This will greatly reduce the likelihood of receiving an error. These schema files contain several annotations that describe the nature of the content of some of the elements.

Several validation checks that are not related to the schema files are also performed. So it is possible for a submission to meet all the schema constraints and still be Error.

We assume the filer is familiar with the basics of the XML language, Namespaces, and the XML Schema Definition language. If not, you can find numerous references on the World Wide Web. One recommended website that provides several useful tutorials and examples is http://www.w3schools.com/.

This section summarizes the restrictions and constraints imposed on the content of the Metric data.

## Column definitions for the table.

The following defines the columns in the schema table in 4.2.

|  |  |
| --- | --- |
| Column Name | Description |
| Level | Depth of element in the XML node hierarchy. |
| Order | Order in which elements must appear. |
| Data Type | The type of data allowed in the element. |
| Element Name | Name of the XML element. This is case-sensitive |
| Max Length | Maximum length for string/Integer elements. |
| Choice List | List of allowed values or format of the Element, if specified. |
| Max Occurs | Maximum times a set of elements may be repeated. The maximum occurrence is 1, if not specified. |
| Applicability of Element | Indicates applicability of the element. m = Mandatory o = Optional. |

## Element Table

Below table describes the Elements in the XML.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Level | Order | Data  Type | Element  Name | Max  Length | Choice  List | Max  Occurs | Mandatory  /Optional |
| 1 | 1 |  | AMP\_FILE |  |  | 1 | M |
| 2 | 1 |  | FILE\_HDR |  |  | 1 | M |
| 3 | 1 | String | PROJECT\_NAME | 50 |  | 1 | M |
| 2 | 2 |  | REPORT |  |  | Unlimited | M |
| 3 | 1 | String | REPORT\_TYPE | 8 | ACTUAL/ FORECAST | 1 | M |
| 3 | 2 | String | PROGRAM\_NAME | 50 |  | 1 | M |
| 3 | 3 | String | GEOGRAPHY | 50 |  | 1 | M |
| 3 | 4 | String | FUNCTIONAL\_AREA | 50 |  | 1 | M |
| 3 | 5 | String | REPORTING\_PERIOD\_TYPE | 50 |  | 1 | M |
| 3 | 6 | String | REPORTING\_PERIOD\_END\_DATE | 10 | MM/DD/YYYY  format | 1 | M |
| 3 | 7 |  | METRIC |  |  | Unlimited | M |
| 4 | 1 | String | NAME | 100 |  | 1 | M |
| 4 | 2 | Number | VALUE | 19,6 |  | 1 | O |
| 4 | 3 | String | COMMENT | 200 |  | 1 | O |
| 4 | 4 | String | NOT\_SUPPLIED | 1 | Y/N | 1 | O |

# Metric Information

Every Metric information is defined by the following Data Elements.

|  |  |
| --- | --- |
| Data Element | Description |
| PROJECT NAME | Name of the Project the Metric pertains to |
| REPORT TYPE | Whether metric is ACTUAL or FORECAST |
| PROGRAM NAME | Name of the Program the Metric pertains to |
| GEOGRAPHY | Geographical location definition of the Project/Program |
| FUNCTIONAL AREA | Metric pertains to which functional area of the Program |
| REPORTING PERIOD TYPE | Whether reporting period type is WEEKLY or MONTHLY |
| REPORTING PERIOD END DATE | The reporting period end date of the Metric MM/DD/YYYY |
| METRIC NAME | Name of the Metric |
| METRIC VALUE | The Actual or Forecast number value of the Metric |

# Example Submission Files

This section provides list of sample submission files.

|  |  |
| --- | --- |
| Submission File Description | File |
| Simple XML with Actuals |  |
| XML with Actuals and Forecasts |  |
| XML with missing elements |  |
| XML with multiple reporting periods |  |