

Prepared (also subject responsible if other) ERATLIM		No. 3/190 01-AVA 901 18 Uen		
Approved EAB/FLA/MA/D [Lulseged Zerfu]	Checked	Date 2014-05-19	Rev B	Reference

MTAS CCMP Structure

Contents

1	General Information.....	2
1.1	Revision history.....	2
1.2	Purpose.....	2
1.3	Scope.....	2
2	Schema Overview .....	3
2.1	Namespace Prefix.....	3
2.2	Namespace Relationships .....	3
3	XML Schemas .....	5
3.1	Top level schemas .....	5
4	Attached files .....	6
4.1	XML Schema files .....	6
5	Glossary .....	6
5.1	Terms .....	6
5.2	Abbreviations .....	6
6	References .....	7

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## 1 General Information

### 1.1 Revision history

REVISION	RELEASE DATE	REVISED BY	REASON FOR REVISION
A	2012-09-26	ELEERIK	Clone from 3/190 01-CRA 119 2106 rev B
B	2014-05-19	ERATLIM	Removed the Focus Control State schema and zip file.

### 1.2 Purpose

This document presents the XML schemas used in MTAS over the Centralized Conferencing Manipulation Protocol (CCMP) interface and explains their structure. They are based on the IETF specifications.

### 1.3 Scope

This document captures or refers to the XML schemas that define the format of the scheduled conference service that is carried over the CCMP interface see ref [2].

For details of how this scheduled conference data is manipulated over the CCMP interface by the “A Session Initiation Protocol (SIP) Event Package for ConferenceState” and Conference Information Data Model for Centralized Conferencing (XCON), see refs [3] and [4].

For a definition of XML schema, see ref [1].

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## 2 Schema Overview

The XML schemas presented are used to validate incoming CCMP requests for the scheduled conference.

The schema specified in [3] defines the intended conference information root element of XML elements manipulated over the CCMP interface. It contains extension points and the schema specified in [4] extends the scheduled conference service.

In order to build a complete schema to validate the data for MTAS scheduled conference service various schemas must be imported.

### 2.1 Namespace Prefix

In order to guarantee its uniqueness, a namespace can often be a long unwieldy string. XML allows a namespace to be mapped to a short string (a prefix) which makes XML documents more readable. Table 1 shows the mapping between each namespace and its assigned prefix as used in this document.

Prefix	Namespace	Purpose
ccmp	urn:ietf:params:xml:ns:xcon:ccmp	Centralized Conferencing Manipulation Protocol as defined in ref [2]
info	urn:ietf:params:xml:ns:conference-info	A Session Initiation Protocol (SIP) Event Package for ConferenceStateas defined in ref [3]
xcon	urn:ietf:params:xml:ns:xcon-conference-info	Conference Information Data Model for Centralized Conferencing (XCON) as defined in ref [4]
xs	http://www.w3.org/2001/XMLSchema	Standard XML definition
xsi	http://www.w3.org/2001/XMLSchema-instance	Schema structures for direct use in XML instance documents.

Table 1 – Namespace Prefix mapping

### 2.2 Namespace Relationships

There are dependency relationships between some of the namespaces where one namespace imports another and refers to types or elements in the other namespace.

The namespace dependencies for the MMTel scheduled conference service data are shown in Figure 1.

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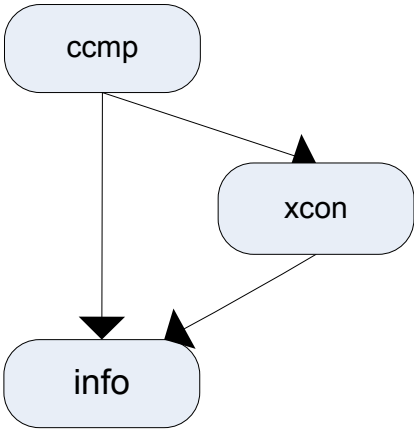


Figure 1 – Namespace dependencies

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## 3 XML Schemas

### 3.1 Top level schemas

#### 3.1.1 Centralized Conferencing Manipulation Protocol (CCMP)

Description: Used to validate the scheduled conference requests received over the CCMP interface. Imports the schemas needed for the scheduled conference service supported in MTAS. The top level element conference-info is defined in conference-info.xsd.

File: ccmp.xsd

Namespace: urn:ietf:params:xml:ns:xcon:ccmp

Imports:

- conference-info.xsd
- xcon-conference-info.xsd

#### 3.1.2 Conference information

Description: This schema contains the definition of the root element for the scheduled conference document manipulated over the CCMP interface.

Source: Reference [3]

File: conference-info.xsd

Namespace: urn:ietf:params:xml:ns:conference-info

#### 3.1.3 Conference information Data Model for Centralized Conferencing (XCON)

Description: This schema extends the conference information and supports more features, as standardized by IETF.

Source: Reference [4]

File: xcon-conference-info.xsd

Namespace: urn:ietf:params:xml:ns:xcon-conference-info

Imports:

- conference-info.xsd

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## 4 Attached files

### 4.1 XML Schema files

The schema files used on this interface are zipped and are available in ref [5]

## 5 Glossary

### 5.1 Terms

Term	Explanation
CCMP Interface	Interface between the CCMP client and CCMP server.

### 5.2 Abbreviations

CCMP	Centralized Conferencing Manipulation Protocol
IETF	Internet Engineering Task Force
XML	Extensible Markup Language

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## 6 References

- [1] <http://www.w3.org/TR/xmlschema-1/>,  
XML Schema Part 1: Structures Second Edition.
- [2] RFC 6503,  
Centralized Conferencing Manipulation Protocol
- [3] RFC 4575,  
A Session Initiation Protocol (SIP) Event Package for  
ConferenceState
- [4] RFC 6501,  
Conference Information Data Model for Centralized Conferencing  
(XCON)
- [5] 3/190 09-AVA 901 18,  
MTAS CCMP Schemas