



MGC to RMX XML API Conferencing Comparison

Version 4.0

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PATENT PENDING

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Overview

This guide documents the differences between the MGC XML API Version 8.0 and the RMX XML API Version 4.0.

Note The guide only relates to the schemas and elements that are needed to log in to the MCU and to start and manage conferences. It does not relate to the schemas that are used to configure the MCU.

In general, the RMX XML API is backwards compatible with all MGC XML API versions. However, the RMX XML API contains some elements that are not supported by the RMX, but are included in the RMX schemas for future use or for compatibility with the MGC. The RMX will ignore the contents of these elements, and their value will not be written to the CDR. These elements are marked in the element lists in this guide as "not supported". In some cases, the property represented by such an element may still be applicable to the RMX, but its value is either set in the code or can be set by means of a system configuration flag. For these elements, the element lists also include information about the element value.

Note The element lists in this guide only contain descriptions of new elements. The element definitions for existing elements are the same for the RMX as they were for the MGC. Refer to the MGC XML API Version 8.0 e-book for a description of these elements.

The table below details the main differences between the RMX XML API and the MGC XML API.

RMX XML API Version 4.0	MGC XML API Version 8.0
The RMX supports Unicode, and the values of certain elements, such as the conference name, can include Unicode characters. Elements that can contain Unicode characters are marked in the element lists in this guide.	The MGC XML API does not support Unicode, and therefore element values can only contain ASCII characters.
Only ASCII characters can be used in the names of entities in which the name can be used to register with devices on the network, or to route participants to conferences. Therefore for these entities, the original NAME element is used as a routing name, and a new name element has been added, the DISPLAY_NAME, which can include Unicode characters.	All entities have only one name element.
You need to log in to the MCU for each socket you connect through, and cannot connect through a new socket using the old token obtained previously when logging in through a different socket. To connect through a different socket, you must log in again using XML.	You can connect to the MCU through multiple sockets using the same token.
The RMX XML API can only be used with ports 80 and 443, with port 443 being used for secured MCUs.	The MGC XML API can be used with ports 80, 1205 and 5001, as well as the secure port 443.
Only XML API is supplied.	Both C+ and XML API is supplied.

Schemas Used to Log in to the MCU, and to Create and Manage Conferences

The following schemas are used to log in to the MCU and to create and manage conferences:

Schema	Description
common_obj	Contains elements that are common to multiple object schemas.
common_trans	Contains elements that are common to multiple transaction schemas.
common_trans_obj	Contains elements that are common to multiple transaction and object schemas.
obj_conf_summary_list	Holds summary information about ongoing conferences.
obj_conference	Holds detailed information about an ongoing conference.
obj_force	Holds information about the arrangement of video windows on the screens, and information about which participants are forced to appear in specific windows.
obj_lecture_mode	Holds lecture mode settings.
obj_ongoing_party	Holds information about a participant in an ongoing conference.
obj_party	Holds participant information.
obj_res_summary_list	Holds summary information about Reservations, Meeting Rooms, Entry Queues, SIP Factories and Profiles.
obj_reservation	Holds detailed information about a Reservation, Meeting Room, Entry Queue, SIP Factory or Profile.
response_general	Returned when there is no response with data available, for example, when an invalid schema is sent. Usually the response_general schema only contains a status which explains why the requested response was not sent. However, the schema optionally contains a TRANS_TOKEN element, which is used for asynchronous transactions for which the full response is not returned automatically
response_trans_conf	Contains the response to the trans_conf_1 or trans_conf_2 schemas, which are used to perform operations on ongoing conferences.
response_trans_conf_list	Contains the response to the trans_conf_list schema, which is used to retrieve a list of ongoing conference summaries.
response_trans_mcu	Contains the response to the trans_mcu schema, which is used to log in to the MCU, to log out of the MCU, and to perform configuration operations on the MCU.
response_trans_party	Contains the response to the trans_party schema, which is used to retrieve information about a participant in an ongoing conference.
response_trans_res	Contains the response to the trans_res_1 or trans_res_2 schemas which are used to set up conferences, and to set up and manage Reservations, Meeting Rooms, Entry Queues, SIP Factories and Profiles.
response_trans_res_list	Contains the response to the trans_res_list schema which is used to retrieve a list of Reservation, Meeting Room, Entry Queue, SIP Factory and Profile summaries.
trans_conf_1	The trans_conf_1 and trans_conf_2 schemas are used to manage ongoing conferences.
trans_conf_2	The trans_conf_1 and trans_conf_2 schemas are used to manage ongoing conferences.
trans_conf_list	Used to retrieve a list of ongoing conference summaries.
trans_mcu	Used to log in to the MCU, to log out of the MCU, and to perform configuration operations on the MCU.
trans_party	Used to retrieve information about a participant in an ongoing conference.

Schema	Description
trans_res_1	The trans_res_1 and trans_res_2 schemas are used to set up conferences, and to set up and manage Reservations, Meeting Rooms, Entry Queues, SIP Factories and Profiles.
trans_res_2	The trans_res_1 and trans_res_2 schemas are used to set up conferences, and to set up and manage Reservations, Meeting Rooms, Entry Queues, SIP Factories and Profiles.
trans_res_list	Used to retrieve a list of all the Reservation, Meeting Room, Entry Queue, SIP Factory and Profile summaries.

Actions Used to Log in to the MCU, and to Create and Manage Conferences

Login is performed using the **LOGIN** element in the **trans_mcu** schema. Conferences are created and controlled, and conference information is retrieved, using the elements in the **trans_res_1**, **trans_res_2**, **trans_res_list**, **trans_conf_1**, **trans_conf_2**, **trans_conf_list** and **trans_party** schemas, and included schemas.

The following actions can be used to log in and to log out of the MCU, and to create and manage conferences:

schema trans_mcu

LOGIN (For a list of the elements in the **LOGIN** element, see "[The LOGIN Element](#)" on page 8)

LOGOUT

schema trans_res_1

CANCEL_DEFAULT_EQ (new in RMX) (removes the assignment of an Entry Queue as the Transit Entry Queue)

LOGIN_START (not supported)

SET_DEFAULT_EQ (assigns an Entry Queue to be the Transit Entry Queue)

START (For a list of the elements in the **RESERVATION** element, see "" on page 10.)

START_REPEATED (not supported)

UPDATE (only applicable to Entry Queues, SIP Factories, Meeting Rooms and Profiles, but not to conferences)

schema trans_res_2

AWAKE_MEETING_ROOM (not supported)

CANCEL_REPEATED (supported from V4.0)

GET_DOUBLE_BOOKING (not supported)

GET_MEETING_ROOM (For a list of the elements in the **RESERVATION** element, see "[The RESERVATION Element](#)" on page 10.)

GET_PERIOD_PARTY_LIST (not supported)

GET_PROFILE (For a list of the elements in the **RESERVATION** element, see "[The RESERVATION Element](#)" on page 10.)

GET_RES (supported from V4.0)

TERMINATE_MEETING_ROOM

TERMINATE_PROFILE

TERMINATE_RES (not supported)

schema trans_res_list

GET_MEETING_ROOM_LIST (For a list of the elements in the MEETING_ROOM_SUMMARY_LS element, see "[The MEETING_ROOM_SUMMARY_LS Element](#)" on page 28.)

GET_PROFILE_LIST (For a list of the elements in the PROFILE_SUMMARY_LS element, see "[The PROFILE_SUMMARY_LS Element](#)" on page 27.)

GET_RES_LIST (supported from V4.0)

schema trans_conf_1

ADD_PARTY (For a list of the elements in the PARTY element, see "[The PARTY Element](#)" on page 16.)

SET_LECTURE_MODE

SET_PARTY_LAYOUT_TYPE

SET_PARTY_VIDEO_LAYOUT (not supported)

SET_PARTY_VIDEO_LAYOUT_EX

SET_VIDEO_LAYOUT

UPDATE_PARTY (For a list of the elements in the PARTY element, see "[The PARTY Element](#)" on page 16.)

schema trans_conf_2

ADD_PARTY_QA (not supported)

ATTEND_PARTY (not supported)

BACK_TO_CONF_PARTY (not supported)

CANCEL_JOIN_CONFERENCE (not supported)

CANCEL_VOTE (not supported)

CLEAR_QA (not supported)

DECREASE_PARTY_QA (not supported)

DELETE_PARTY

GET (For a list of the elements in the CONFERENCE element, see "[The CONFERENCE Element](#)" on page 21.)

INCREASE_PARTY_QA (not supported)

JOIN_CONFERENCE (not supported)

MOVE_PARTY (not supported)

MOVE_PARTY_BOTTOM_QA (not supported)

MOVE_PARTY_TOP_QA (not supported)

NEW_VOTE (not supported)

NEXT_QUESTIONER (not supported)

ONHOLD_PARTY (not supported)

PAUSE_RECORDING (supported from V2.0.2)

REFRESH_VIDEO (not supported)

REMOVE_EXCLUSIVE_SPEAKER (not supported)

REMOVE_PARTY_QA (not supported)

RESUME_RECORDING (supported from v2.0.2)

SET_AGC
 SET_AUDIO_BLOCK
 SET_AUDIO_VIDEO_MUTE
 SET_AUDIO_VOLUME
 SET_AUTO_LAYOUT
 SET_BILLING_DATA
 SET_CONF_CONTACT_INFO
 SET_CONF_ON_HOLD *(not supported)*
 SET_CONNECT
 SET_DOWNSPEED *(not supported)*
 SET_END_TIME
 SET_ENTRY_PASSWORD
 SET_EXCLUSIVE_SPEAKER *(not supported)*
 SET_LEADER
 SET_LISTEN_AUDIO_VOLUME
 SET_LOCK *(not supported)*
 SET_MUTE_INCOMING_PARTIES *(not supported)*
 SET_OPERATOR_GUIDANCE *(not supported)*
 SET_PARTY_CONTACT_INFO
 SET_PARTY_VISUAL_NAME
 SET_PASSWORD
 SET_REMARK *(not supported)*
 SET_ROLL_CALL *(not supported)*
 SET_SILENCE_IT *(not supported)*
 SET_VIP *(not supported)*
 SET_VISUAL_EFFECT
 SET_VOTE *(not supported)*
 START_MEDIA_RECORDING *(new in RMX - for internal use only)*
 START_RECORDING *(supported from v2.0.2)*
 START_VOTE *(not supported)*
 STOP_RECORDING *(supported from v2.0.2)*
 STOP_VOTE *(not supported)*
 TERMINATE_CONF
 WITHDRAW_CHAIR_TOKEN *(not supported)*
 WITHDRAW_CONTENT_TOKEN
 WITHDRAW_TOKEN *(not supported)*

schema trans_conf_list

GET_GW_LS (*not supported*)

GET_LS (*For a list of the elements in the CONF_SUMMARY_LS element, see "[The CONF_SUMMARY_LS Element](#)" on page 19.*)

GET_PLAYBACK_LS (*not supported*)

GET_RECORDING_LS (*not supported*)

schema trans_party

GET (*For a list of the elements in the ONGOING_PARTY element as returned by the trans_party GET transaction, see "[The ONGOING_PARTY Element](#)" on page 30.*)

Entities used to Log in to the MCU, and to Create and Manage Conferences

The LOGIN Element

The **LOGIN** element is used to log in to the MCU.

The **LOGIN** element used for the login request is located in the **trans_mcu** schema, and contains the following elements:

- MCU_IP
 - IP
 - LISTEN_PORT
 - HOST_NAME
- USER_NAME
- PASSWORD
- STATION_NAME
- COMPRESSION
- CONFERENCE_RECORDER (*not supported*)
- NEW_PASSWORD (*new in V2.0.2, but not currently supported*)

The **LOGIN** element used for the login response is located in the **response_trans_mcu** schema, and contains the following elements:

- MCU_TOKEN
- MCU_USER_TOKEN
- VERSION_LIST
 - MCU_VERSION
 - MAIN
 - MAJOR
 - MINOR
 - INTERNAL
 - PRIVATE_DESCRIPTION
 - MCMS_VERSION
 - MAIN
 - MAJOR
 - MINOR
 - INTERNAL
 - PRIVATE_DESCRIPTION
- AUTHORIZATION_GROUP (*the only valid values are: administrator, operator, attendant (chairperson), and anonymous (value added in RMX - for internal use only)*)
- API_NUMBER (*for internal use*)

PRODUCT_TYPE

HTTP_PORT

OPERATING_SYSTEM *(not supported)*

ENTRY_QUEUE_ROUTING *(not supported)*

HTTP_SECURED_PORT *(not supported)*

API_MANDATORY_SECURITY *(not supported)*

FILE_MANDATORY_SECURITY *(not supported)*

PASSWORD_EXPIRATION_DAYS_LEFT *(new in V2.0.2, but not currently supported)*

The RESERVATION Element

The **RESERVATION** element is used to define the properties of conferences, and to define, update, and retrieve the properties of Profiles, Meeting Rooms, Entry Queues and SIP Factories.

When creating a conference or Meeting Room using the RMX GUI, you first create a Profile in which the values of most conference or Meeting Room properties are defined, and then create a conference or Meeting Room based on this Profile. When you create the conference or Meeting Room itself, you only define those properties that are not included in the Profile.

When defining a new conference or Meeting Room using the RMX XML, you can use either of the following methods:

- Define all the conference or Meeting Room properties directly in the **RESERVATION** element, without using a Profile.
- Define a Profile, and then define a conference or Meeting Room based on the Profile, by specifying a value for the **AD_HOC_PROFILE_ID** in the **RESERVATION** element. Note that if the **RESERVATION** element contains a value for a field for which a value is also defined in the Profile, the Profile value will be used, and not the value specified in the **RESERVATION** element.

When defining a new conference, Meeting Room, Entry Queue or SIP factory, it is mandatory to specify a value for either the NAME element or the DISPLAY_NAME element. If you specify a value for only one of these elements, the system will assign a value to the other element as follows:

- If you only specify a value for the NAME element, then this value will also be used as the value for the DISPLAY_NAME element.
- If you only specify a value for the DISPLAY_NAME element, the system will assign a value to the NAME element as follows:
 - If the value you specify for the DISPLAY_NAME element contains only ASCII characters, then this value will also be used as the value for the NAME element.
 - If the value you specify for the DISPLAY_NAME element contains Unicode characters, the value in the NUMERIC_ID element will be used as the value for the NAME element.

When defining a new Profile, you must specify a value for DISPLAY_NAME element, and the system will generate a value for the NAME element. The value in the DISPLAY_NAME element is used as the Profile name.

The **RESERVATION** element is located in the **obj_reservation** schema, and contains the following elements:

OBJ_TOKEN

CHANGED

NAME (*For conferences, Meeting Rooms, Entry Queues and SIP Factories, this element contains the routing name. For Profiles, the system generates a value for this element.*)

ID (*mandatory when updating the properties of Profiles, Meeting Rooms, Entry Queues and SIP Factories*)

REMARK (*not supported*)

NETWORK (*not supported - the system sets the field value to **h320_h323***)

MEDIA (*not supported - the system sets the field value to **video_audio***)

PASSWORD

VIDEO_SESSION (*not supported - the system sets the field value to **continuous_presence***)

VIDEO_PROTOCOL (*not supported - the system sets the field value to **auto***)

TRANSFER_RATE (the only valid values are: **64, 96** (value added in RMX), **128, 256, 384, 512, 768, 1024** (value added in RMX), **1152, 1472, 1920** and **4096** (value added in RMX))

AUDIO_RATE (not supported - the system sets the field value to **auto**)

VIDEO_FORMAT (not supported - the system sets the field value to **auto**)

FRAME_RATE (not supported - the system sets the field value to **auto**)

ATTENDED_MODE (not supported - the system sets the field value to **ivr**)

AV_MSG

RESTRICT_MODE (not supported)

T120_RATE (not supported)

ENTRY_TONE (not supported)

EXIT_TONE (not supported)

END_TIME_ALERT_TONE (obsolete))

STAND_BY (not supported - the system sets the field value to **false**)

PEOPLE_AND_CONTENT (obsolete)

ANNEX_N (not supported)

ANNEX_P (not supported)

ANNEX_F (not supported)

OPERATOR_CONF (not supported)

SAME_LAYOUT

DUO_VIDEO (obsolete)

AUTO_TERMINATE

ON

TIME_BEFORE_FIRST_JOIN

TIME_AFTER_LAST_QUIT

AUDIO_MIX_DEPTH (not supported - the system sets the field value to **5**)

TALK_HOLD_TIME (not supported - the system sets the field value to **150**, which represents a talk hold time of 1.5 seconds)

MAX_PARTIES

MEET_ME_PER_CONF

ON (not supported - the system sets the field value to **true**)

AUTO_ADD (not supported - the system sets the field value to **true**)

MIN_NUM_OF_PARTIES (not supported - the system sets the field value to **0**)

SERVICE (not supported)

CHAIR_MODE (not supported)

RESOURCE_FORCE (not supported)

ADVANCED_AUDIO (not supported)

H323_BIT_RATE (not supported - the system sets the field value to **384**)

LEADER_PASSWORD (obsolete)

TERMINATE_AFTER_LEADER_EXIT (*not supported - the field value can be set using the **TERMINATE_CONF_AFTER_CHAIR_DROPPED** system configuration flag*)

START_CONF_LEADER

REPEATED_ID (*not supported*)

MEETING_ROOM

ON

LIMITED_SEQ (*not supported*)

MR_STATE

VISUAL_CONCERT (*obsolete*)

START_TIME (*not supported*)

DURATION

HOURL

MINUTE

SECOND

LOCK (*not supported*)

LSD_RATE (*not supported*)

CASCADE (*supported from V2.0.2*)

CASCADE_ROLE

MASTER_NAME

LECTURE_MODE

ON (*obsolete*)

TIMER

INTERVAL (*not supported - the system sets the field value to 15*)

AUDIO_ACTIVATED (*not supported - the system sets the field value to **true***)

LECTURE_NAME

LECTURE_MODE_TYPE (*the **lecture_show** value is not supported*)

LECTURE_ID (*not supported - the system sets the field value*)

LAYOUT (*the **1x1Qcif** value is not supported*)

FORCE_LIST

FORCE

LAYOUT (*the **1x1Qcif** value is not supported*)

CELL

ID

FORCE_STATE

FORCE_ID

FORCE_NAME

SOURCE_ID

DUAL_VIDEO_MODE *(not supported)*

ENTRY_QUEUE

MEET_ME_PER_ENTRY_QUEUE *(not supported - the system sets the field value to **true**)*

MUTE_INCOMING_PARTIES *(not supported)*

ON_HOLD *(not supported)*

ENTRY_PASSWORD

ROLL_CALL *(not supported)*

INVITE_PARTY *(not supported)*

ADVANCED_VIDEO *(not supported)*

INTERLACED_MODE *(not supported)*

VIDEO_PLUS *(not supported)*

VISUAL_EFFECTS

 BACKGROUND_COLOR

 RED

 GREEN

 BLUE

 Y *(new in RMX) (The Y component of a YUV color.)*

 U *(new in RMX) (The U component of a YUV color.)*

 V *(new in RMX) (The V component of a YUV color.)*

 LAYOUT_BORDER

 LAYOUT_BORDER_COLOR

 RED

 GREEN

 BLUE

 Y *(new in RMX) (The Y component of a YUV color.)*

 U *(new in RMX) (The U component of a YUV color.)*

 V *(new in RMX) (The V component of a YUV color.)*

 SPEAKER_NOTATION

 SPEAKER_NOTATION_COLOR

 RED

 GREEN

 BLUE

 Y *(new in RMX) (The Y component of a YUV color.)*

 U *(new in RMX) (The U component of a YUV color.)*

 V *(new in RMX) (The V component of a YUV color.)*

IMAGE_ID (new in RMX) (Identifies the background image to be used. Specify **0** to indicate that no background image is to be used, **1**, for the first background image, or **2**, for the second background image.)

USE_YUV (new in RMX) (Identifies the color model being used to specify colors. Specify **0** to use the RGB color model or **1** to use the YUV color model)

COP (not supported)

PROFILE

DIAL_IN_H323_SRV_PREFIX_LIST

DIAL_IN_H323_SRV_PREFIX

NAME

PREFIX

AD_HOC (only applicable to Entry Queues)

AD_HOC_PROFILE_ID (This element is now applicable to conferences, Meeting Rooms, SIP Factories and all types of Entry Queues.)

AUTO_LAYOUT

BILLING_DATA

NUMERIC_ID

CONTACT_INFO_LIST

CONTACT_INFO (from V2.0 the value can contain Unicode characters)

CONTACT_INFO_2 (from V2.0 the value can contain Unicode characters)

CONTACT_INFO_3 (from V2.0 the value can contain Unicode characters)

CONTACT_INFO_4 (not supported)

HSD_RATE (not supported)

ENCRYPTION

CONF_CONTROL (not supported)

CONF_PROTOCOL (not supported)

EXTERNAL_MASTER (not supported)

VIDEO

QCIF_FRAME_RATE (not supported - the system sets the field value to **auto**)

COUGH_DELAY (not supported)

GUEST_OPER (not supported)

WEB_RESERVED_UID (not supported)

WEB_OWNER_UID (not supported)

WEB_DB_ID (not supported)

WEB_RESERVED (not supported)

CONFERENCE_TYPE (not supported - the system sets the field value to **standard**)

COP_NUM_OF_PORTS (not supported)

CREATOR (not supported)

SILENCE_IT (*not supported*)

IS_RECORDING_LINK (*not supported*)

ENABLE_RECORDING (*supported from V2.0.2*)

START_REC_POLICY (*supported from V2.0.2*)

REC_LINK_ID (*not supported*)

REC_LINK_NAME (*supported from V2.0.2*)

VIDEO_QUALITY

ENTRY_QUEUE_TYPE (*not supported - the system sets the field value to **normal***)

END_TIME_ALERT_TONE_EX (*not supported*)

DB_EQ_ACCESS_NAME (*not supported*)

VTX (*not supported*)

CASCADE_EQ (*only applicable to Entry Queues*)

SIP_FACTORY

SIP_FACTORY_AUTO_CONNECT

ENTERPRISE_MODE

HD (*new in RMX*) (*Indicates whether or not the conference is an HD conference.*)

DISPLAY_NAME (*new in V2.0*) (*For conferences, Meeting Rooms, Entry Queues and SIP Factories, this element contains the display name. For Profiles, this element contains the profile name. The element value can contain Unicode characters.*)

IS_TELEPRESENCE_MODE (*new in V2.0.2*) (*Indicates whether or not Telepresence is enabled in the conference.*)

AUDIO_ONLY_RECORDING (*new in V2.0.2*) (*Indicates whether all channels should be recorded, or only the audio channel.*)

LPR (*new in V3.0*) (*Indicates whether or not LPR. (Lost Packet Recovery) is enabled for the conference.*)

PARTY_LIST

 PARTY (*For a list of the elements in the PARTY element, see "[The PARTY Element](#)" on page 16.*)

The PARTY Element

The **PARTY** element is used to define, update and retrieve the properties of a participant. The **PARTY** element is located in the **obj_party** schema, and contains the following elements:

NAME (*from V2.0 the value can contain Unicode characters.*)

ID

PHONE_LIST (*supported from V2.0*)

PHONE1

PHONE2

PHONE3

PHONE4

PHONE5

PHONE6

PHONE_LIST_EX (*added to the PHONE_LIST element in V3.0*)

PHONE

INTERFACE

CONNECTION (*the **direct** value is not supported*)

MEET_ME_METHOD (*supported from V2.0 - the **channel** value is not supported*)

NUM_TYPE (*supported from V2.0*)

BONDING (*supported from V3.0*)

MULTI_RATE (*not supported*)

NET_CHANNEL_NUMBER (*supported from V3.0*)

VIDEO_PROTOCOL (*the **h26L** value is not supported*)

CALL_CONTENT

ALIAS

NAME

ALIAS_TYPE

IP

SIGNALING_PORT

VOLUME

MCU_PHONE_LIST (*supported from V2.0*)

PHONE1

PHONE2

PHONE3

PHONE4

PHONE5
PHONE6
PHONE_LIST_EX (*added to the MCU_PHONE_LIST element in V3.0*)
 PHONE
BONDING_PHONE (*supported from V3.0*)
SERVICE_NAME
SUB_SERVICE_NAME (*not supported*)
AUTO_DETECT (*not supported*)
RESTRICT (*not supported*)
ENHANCED_VIDEO (*not supported*)
VIDEO_BIT_RATE
IP_QOS (*not supported*)
ATM_QOS (*obsolete*)
RECORDING_PORT (*not supported*)
LAYOUT_TYPE
PERSONAL_LAYOUT
PERSONAL_FORCE_LIST (*This element is only applicable when the PARTY element is a sub-element of the ONGOING_PARTY element (that is, not when it is a sub-element of the RESERVATION element), and when the participant is connected, and the value of the LAYOUT_TYPE element in the PARTY element is **personal***)
 FORCE
 LAYOUT (*the **1x1Qcif** value is not supported*)
 CELL
 ID
 FORCE_STATE
 FORCE_ID
 FORCE_NAME
 SOURCE_ID
VIP (*not supported - the system sets the field value to **false***)
CONTACT_INFO_LIST
 CONTACT_INFO (*from V2.0 the value can contain Unicode characters*)
 CONTACT_INFO_2 (*from V2.0 the value can contain Unicode characters*)
 CONTACT_INFO_3 (*from V2.0 the value can contain Unicode characters*)
 CONTACT_INFO_4 (*from V2.0 the value can contain Unicode characters*)
 ADDITIONAL_INFO (*new in V2.0.2*) (*An additional participant text field that can be used to store information*)
LISTEN_VOLUME
AGC
SIP_ADDRESS

SIP_ADDRESS_TYPE
WEB_USER_ID *(not supported)*
UNDEFINED
BACKUP_SERVICE_NAME *(not supported)*
BACKUP_SUB_SERVICE_NAME *(not supported)*
DEFAULT_TEMPLATE *(not supported)*
NODE_TYPE
ENCRYPTION_EX
H323_PSTN *(not supported)*
EMAIL *(not supported)*
IS_RECORDING_LINK_PARTY *(supported from V2.0.2)*
USER_IDENTIFIER_STRING *(not supported)*
IDENTIFICATION_METHOD
CASCADE *(added to the PARTY element in V2.0.2)*
 CASCADE_ROLE
 MASTER_NAME
TELEPRESENCE_MODE *(new in V2.0.2) (Identifies the Telepresence mode of an endpoint.)*

The CONF_SUMMARY_LS Element

The **CONF_SUMMARY_LS** element is used to retrieve ongoing conference summary information. The **CONF_SUMMARY_LS** element is located in the **obj_conf_summary_list** schema, and contains the following elements:

OBJ_TOKEN

CHANGED

CONF_SUMMARY

NAME (*from V2.0 this element contains the conference routing name*)

ID

CONF_CHANGE

CONF_STATUS

CONF_OK

CONF_EMPTY

SINGLE_PARTY

NOT_FULL

RESOURCES_DEFICIENCY

BAD_RESOURCES

PROBLEM_PARTY

START_TIME

END_TIME

OPERATOR_CONF (*not supported*)

LOCK (*not supported*)

LECTURE_CONF

DOWNSPEED (*not supported*)

AUDIO_CONF (*not supported*)

VIDEO_SESSION (*not supported - the system sets the field value to **continuous_presence***)

NUM_PARTIES

NUM_CONNECTED_PARTIES

ON_HOLD (*not supported*)

INVITE_PARTY (*not supported*)

ENTRY_QUEUE

ROLL_CALL (*not supported*)

EXCLUSIVE_SPEAKER (*not supported*)

IVR (*not supported*)

IN_VOTE (*not supported*)

SECURE (*supported from V2.0.2*)

JOIN_CONF_ID *(not supported)*
 ENTRY_PASSWORD
 PASSWORD
 H323_ONLY *(not supported)*
 MEET_ME_PHONE *(not supported)*
 NUMERIC_ID
 CONTACT_INFO_LIST *(supported from V3.0)*
 CONTACT_INFO *(the value can contain Unicode characters)*
 CONTACT_INFO_2 *(the value can contain Unicode characters)*
 CONTACT_INFO_3 *(the value can contain Unicode characters)*
 CONTACT_INFO_4 *(not supported)*
 AUTO_LAYOUT
 LECTURE_PRESENTATION *(not supported)*
 DURATION
 HOUR
 MINUTE
 SECOND
 NUM_UNDEFINED_PARTIES
 DIAL_IN_H323_SRV_PREFIX_LIST
 DIAL_IN_H323_SRV_PREFIX
 NAME
 PREFIX
 ENCRYPTION
 WEB_RESERVED_UID *(not supported)*
 WEB_OWNER_UID *(not supported)*
 WEB_DB_ID *(not supported)*
 WEB_RESERVED *(not supported)*
 RECORDING_STATUS *(supported from V2.0.2)*
 ENTRY_QUEUE_ACCESS *(not supported)*
 TRANSFER_RATE *(the only valid values are: 64, 96 (value added in RMX), 128, 256, 384, 512, 768, 1024 (value added in RMX), 1152, 1472, 1920 and 4096 (value added in RMX))*
 NETWORK *(not supported)*
 HD *(new in RMX) (Indicates whether or not the conference is an HD conference)*
 DISPLAY_NAME *(new in V2.0) (The display name. The value can contain Unicode characters.)*
 EPC_CONTENT_SOURCE_ID *(added to the CONF_SUMMARY_LS element in V2.0.2)*
 DELETED_CONF_LIST
 ID

The CONFERENCE Element

The **CONFERENCE** element is used to retrieve the properties of an ongoing conference. The **CONFERENCE** element is located in the **obj_conference** schema, and contains the following elements:

OBJ_TOKEN

CHANGED

RESERVATION (*For a list of the elements in the RESERVATION element, see "The RESERVATION Element" on page 10.*)

CONF_STATUS

CONF_OK

CONF_EMPTY

SINGLE_PARTY

NOT_FULL

RESOURCES_DEFICIENCY

BAD_RESOURCES

PROBLEM_PARTY

CHAIR_ID (*not supported*)

AUDIO_SOURCE_ID

LSD_SOURCE_ID

HSD_SOURCE_ID (*not supported*)

DOWNSPEED (*not supported*)

NUM_CONNECTED_PARTIES

JOIN_CONF_ID (*not supported*)

EXCLUSIVE_SPEAKER_ID (*not supported*)

SECURE (*supported from V2.0.2*)

REMARKS_HISTORY (*not supported*)

VOTE (*not supported*)

QA (*not supported*)

EPC_CONTENT_SOURCE_ID

CONF_CHANGE_TYPE (*not supported*)

CURRENT_CASCADE_MODE (*not supported*)

RECORDING_STATUS (*supported from V2.0.2*)

ACTUAL_LSD_RATE (*not supported*)

GATEWAY (*not supported*)

ONGOING_PARTY_LIST

ONGOING_PARTY (**Note:** The elements listed here as being contained in the ONGOING_PARTY element, are the elements that are contained in the ONGOING_PARTY element when it is part of the CONFERENCE element returned by the trans_conf_2 GET transaction. For a list of the elements contained in the ONGOING_PARTY element when it is returned by the trans_party GET transaction, see "[The ONGOING_PARTY Element](#)" on page 30.)

ONGOING_PARTY_CHANGE

PARTY (For a list of the elements in the PARTY element, see "[The PARTY Element](#)" on page 16.)

L_SYNC_LOSS (supported from V3.0)

R_SYNC_LOSS (supported from V3.0)

L_VIDEO_SYNC_LOSS

R_VIDEO_SYNC_LOSS

BCH (not supported)

H323_VIDEO_INTRA_SYNC

H323_SYNC

ONGOING_PARTY_STATUS

ID

DESCRIPTION

SECONDARY_CAUSE

ID

DESCRIPTION

DISCONNECTION_CAUSE

ID

DESCRIPTION

DESCRIPTION_EX

Q931_DISCONNECTION_CAUSE (not supported)

DISCONNECTING_OPERATOR

CONNECT_RETRY

CONNECT_TIME

DISCONNECT_TIME

AUDIO_MUTE

AUDIO_SELF_MUTE

AUDIO_MCU_MUTE

AUDIO_BLOCK

VIDEO_MUTE

VIDEO_SELF_MUTE

VIDEO_MCU_MUTE

ATTENDING_STATE (the only valid values are: *ivr* and *inconf*)

OPERATOR_PARTY (*not supported*)
OPERATOR_ATTENDING (*not supported*)
AUTO_ADD
CHANNELS (*supported from V2.0.2*)
 CH_1
 CH_2
 CH_3
 CH_4
 CH_5
 CH_6
 CHANNEL_LIST_EX
 CHANNEL_EX
ACTUAL_MCU_PHONES (*supported from V2.0.2*)
 PHONE1
 PHONE2
 PHONE3
 PHONE4
 PHONE5
 PHONE6
 PHONE_LIST_EX (*added to the PHONE_LIST element in V3.0*)
 PHONE
ACTUAL_PARTY_PHONES (*supported from V2.0.2*)
 PHONE1
 PHONE2
 PHONE3
 PHONE4
 PHONE5
 PHONE6
 PHONE_LIST_EX (*added to the PHONE_LIST element in V3.0*)
 PHONE
AUDIO_MEMBER
VIDEO_MEMBER
T120_MEMBER (*not supported*)
LSD_MEMBER (*not supported*)
HSD_MEMBER (*not supported*)
CHAIR (*not supported*)
LEADER

WAIT_FOR_ASSISTANCE *(not supported)*
 DOWNSPEED_STATE *(not supported)*
 CASCADE_STATUS *(not supported)*
 CASCADE_NODE *(not supported)*
 CAPABILITIES *(not supported)*
 FORCE
 LAYOUT *(the 1x1Qcif value is not supported)*
 CELL
 ID
 FORCE_STATE
 FORCE_ID
 FORCE_NAME
 SOURCE_ID
 TX_BAUD_RATE
 RX_BAUD_RATE
 GK_STATUS *(not supported)*
 H323_CHANNELS *(not supported)*
 LAST_VOTE *(not supported)*
 SUBCONF_NAME *(not supported)*
 EXCLUSIVE_SPEAKER *(not supported)*
 NOISY
 JOIN_CONF_NAME *(not supported)*
 IN_QA *(not supported)*
 CURRENT_QA *(not supported)*
 TIME_QA *(not supported)*
 POSITION_QA *(not supported)*
 CONTENT_MEMBER
 CONTENT_PROVIDER
 VISUAL_NAME
 BCH_SYNC *(not supported)*
 SECONDARY_CAUSE_PARAMS
 CAP_CODE *(the following values were added in RMX: g7221_16k, g7221C_48k, g7221C_32k, g7221C_24k and DBC2CapCode)*
 FRAME_RATE_VALUE
 LINE_RATE_VALUE
 VIDEO_RESOLUTION *(the following values were added in RMX: 2cif, 2sif, 4sif, 525sd, 625sd, 720p and 1080p)*
 (In V2.0 the 1080p value was removed)

SECONDARY_PROBLEM
SECONDARY_PROBLEM_VALUE
REMOTE_SECONDARY_PROBLEM_VALUE
SIP_CONFERENCING_LIMITATION
PARTY_RESOURCES_DETAILS *(not supported)*
H323_VIDEO_STREAM_PARAMS *(not supported)*
SOFTWARE_CP_PARTY_MONITORING *(not supported)*
PARTY_CHANGE_TYPE
OPERATOR_GUEST *(not supported)*
IS_SYNC_LOSS *(not supported)*
IS_RV_SYNC_LOSS
IS_R_SYNC_LOSS *(not supported)*
IS_LV_SYNC_LOSS
LSD_BLOCK *(not supported)*
HSD_BLOCK *(not supported)*
LSD_SELF_BLOCK *(not supported)*
HSD_SELF_BLOCK *(not supported)*
TOTAL_LOOPBACK *(not supported)*
AUDIO_LOOPBACK *(not supported)*
VIDEO_LOOPBACK *(not supported)*
LSD_LOOPBACK *(not supported)*
HSD_LOOPBACK *(not supported)*
AUDIO_DECODE_LOOPBACK *(not supported)*
VIDEO_DECODE_LOOPBACK *(not supported)*
PARTY_CONF_FORCE *(only relevant for a connected participant and only when the value of the LAYOUT_TYPE element in the PARTY element is conference)*
LAYOUT *(the 1x1Qcif value is not supported)*
CELL
ID
FORCE_STATE
FORCE_ID
FORCE_NAME
SOURCE_ID
FECC_STATUS *(not supported)*
IS_CURRENTLY_ENCRYPTED
AUDIO_ACTIVATED_FLAG *(not supported)*
IS_H323_SYNC *(not supported)*

Entities used to Log in to the MCU, and to Create and Manage Conferences

RECORDING_STATE *(not supported)*

L_LPR_ACTIVATION *(new in V3.0) (Indicates whether or not LPR is enabled in the local channel.)*

R_LPR_ACTIVATION *(new in V3.0) (Indicates whether or not LPR is enabled in the remote channel.)*

DELETED_PARTIES

PARTY_ID

The PROFILE_SUMMARY_LS Element

The **PROFILE_SUMMARY_LS** element is used to retrieve Profile summary information. The **PROFILE_SUMMARY_LS** element is located in the **obj_res_summary_list** schema, and contains the following elements:

OBJ_TOKEN

CHANGED

DELETED_RES_LIST

ID

PROFILE_SUMMARY

NAME *(from V2.0 the system generates a value for this element. The **DISPLAY_NAME** element contains the profile name specified by the user.)*

ID

RES_CHANGE

DURATION *(not supported)*

MEET_ME_PHONE *(supported from V2.0)*

OPERATOR_CONF *(not supported)*

AUDIO_CONF *(not supported)*

ENTRY_QUEUE

ENTRY_PASSWORD *(not supported)*

PASSWORD *(not supported)*

H323_ONLY *(not supported)*

NUMERIC_ID *(not supported)*

CONTACT_INFO_LIST *(not supported)*

NUM_PARTIES *(not supported)*

NUM_UNDEFINED_PARTIES *(not supported)*

DIAL_IN_H323_SRV_PREFIX_LIST *(not supported)*

ENTRY_QUEUE_TYPE *(not supported)*

ENCRYPTION

SIP_FACTORY *(not supported)*

TRANSFER_RATE *(added to the PROFILE_SUMMARY element in RMX) (the only valid values are: **64**, **96** (value added in RMX), **128**, **256**, **384**, **512**, **768**, **1024** (value added in RMX), **1152**, **1472**, **1920** and **4096** (value added in RMX))*

AD_HOC_PROFILE_ID *(not supported) (added to the PROFILE_SUMMARYS element in RMX)*

LAYOUT *(added to the PROFILE_SUMMARY element in RMX)*

AUTO_LAYOUT *(added to the PROFILE_SUMMARY element in RMX)*

DISPLAY_NAME *(new in V2.0) (The profile name specified by the user - the value can contain Unicode characters.)*

IS_TELEPRESENCE_MODE *(new in V3.0)*

The MEETING_ROOM_SUMMARY_LS Element

The **MEETING_ROOM_SUMMARY_LS** element is used to retrieve Meeting Room, Entry Queue and SIP Factory summary information. The **MEETING_ROOM_SUMMARY_LS** element is located in the **obj_res_summary_list** schema, and contains the following elements:

- OBJ_TOKEN
- CHANGED
- DELETED_RES_LIST
 - ID
- DEFAULT_EQ_NAME (*only applicable to Entry Queues*)
- MEETING_ROOM_SUMMARY
 - NAME (*from V2.0 this element contains the routing name*)
 - ID
 - RES_CHANGE
 - RES_STATUS (*not supported*)
 - DURATION (*only applicable to Meeting Rooms*)
 - HOURL
 - MINUTE
 - SECOND
 - MEET_ME_PHONE (*supported from V2.0*)
 - MR_STATE (*only applicable to Meeting rooms and Entry Queues*)
 - OPERATOR_CONF (*not supported*)
 - AUDIO_CONF (*not supported*)
 - ENTRY_QUEUE
 - ENTRY_PASSWORD (*only applicable to Meeting Rooms*)
 - PASSWORD (*only applicable to Meeting Rooms*)
 - H323_ONLY (*not supported*)
 - NUMERIC_ID
 - CONTACT_INFO_LIST (*not supported*)
 - NUM_PARTIES (*only applicable to Meeting Rooms*)
 - NUM_UNDEFINED_PARTIES (*only applicable to Meeting Rooms*)
 - DIAL_IN_H323_SRV_PREFIX_LIST
 - DIAL_IN_H323_SRV_PREFIX
 - NAME
 - PREFIX
 - ENTRY_QUEUE_TYPE (*not supported*)
 - WEB_RESERVED_UID (*not supported*)
 - WEB_OWNER_UID (*not supported*)

WEB_DB_ID *(not supported)*

WEB_RESERVED *(not supported)*

ENCRYPTION

SIP_FACTORY *(added to the MEETING_ROOM_SUMMARY_LS element in RMX)*

AD_HOC_PROFILE_ID *(added to the MEETING_ROOM_SUMMARY_LS element in RMX) (only applicable to Entry Queues and SIP Factories)*

DISPLAY_NAME *(new in V2.0) (The display name - the value can contain Unicode characters.)*

IS_TELEPRESENCE_MODE *(new in V3.0)*

The ONGOING_PARTY Element

The **ONGOING_PARTY** element is used to retrieve the properties of a participant in an ongoing conference. The **ONGOING_PARTY** element is located in the **obj_ongoing_party** schema.

Note Different elements are contained in the **ONGOING_PARTY** element depending whether it is returned by the **trans_party GET** transaction or the **trans_conf_2 GET** transaction. This section lists the elements contained in the **ONGOING_PARTY** element when it is returned by the **trans_party GET** transaction. For a list of the elements contained in the **ONGOING_PARTY** element when it is returned by the **trans_conf_2 GET** transaction, see "[ONGOING_PARTY](#)" on page 22.

The **ONGOING_PARTY** element returned by the **trans_party GET** transaction contains the following elements:

PARTY

NAME *(from V2.0 the value can contain Unicode characters)*

ID

INTERFACE

NET_CHANNEL_NUMBER *(supported from V3.0)*

LOCAL_COMM_MODE *(supported from V3.0)*

REMOTE_COMM_MODE *(supported from V3.0)*

REMOTE_CAP *(supported from V3.0)*

H323_LOCAL_COMM_MODE

H323_REMOTE_COMM_MODE

H323_REMOTE_CAP

IP_MONITOR_CHANNELS

IP_MONITOR_CHANNEL

Note The **IP_MONITOR_CHANNEL** element contains many repeated groups of sub-elements. To avoid repeating these sub-element lists multiple times, each group of sub-elements is listed once, and referred to from other places.

BASIC_PARAM

MAP_PROBLEM

PROBLEM

BIT_RATE

PROTOCOL *(the following values were added in RMX: g7221_16k, g7221C_48k, g7221C_32k, g7221C_24k and DBC2CapCode)*

CHANNEL_INDEX

CHANNEL_TYPE

PARTY_ADDRESS

MCU_ADDRESS

PARTY_PORT

MCU_PORT

CONNECTION_STATUS

ADVANCED_AUDIO_PARAM

GLOBAL_PARAM (For a list of the elements in the GLOBAL_PARAM element, see [GLOBAL_PARAM](#) on page 33.)

FRAME_PER_PACKET

ADVANCED_AUDIO_IN

ADVANCED_AUDIO_PARAM (For a list of the elements in the ADVANCED_AUDIO_PARAM element, see [ADVANCED_AUDIO_PARAM](#) on page 31.)

RTP_INFO

RTP_PACKET_LOSS

ACCUMULATE

ACCUMULATE_PERCENT

INTERVAL_PERCENT

INTERVAL_NUMBER

INTERVAL_PEAK

RTP_OUT_OF_ORDER

ACCUMULATE

ACCUMULATE_PERCENT

INTERVAL_PERCENT

INTERVAL_NUMBER

INTERVAL_PEAK

RTP_FRAGMENT_PACKETS

ACCUMULATE

ACCUMULATE_PERCENT

INTERVAL_PERCENT

INTERVAL_NUMBER

INTERVAL_PEAK

JITTER_BUFFER_SIZE

ACCUMULATE

ACCUMULATE_PERCENT

INTERVAL_PERCENT

INTERVAL_NUMBER

INTERVAL_PEAK

JITTER_LATE_PACKETS
 ACCUMULATE
 ACCUMULATE_PERCENT
 INTERVAL_PERCENT
 INTERVAL_NUMBER
 INTERVAL_PEAK
 JITTER_OVERFLOWES
 ACCUMULATE
 ACCUMULATE_PERCENT
 INTERVAL_PERCENT
 INTERVAL_NUMBER
 INTERVAL_PEAK
 JITTER_SAMPLE_PACKET_INTERVAL
 ACCUMULATE
 ACCUMULATE_PERCENT
 INTERVAL_PERCENT
 INTERVAL_NUMBER
 INTERVAL_PEAK
 ADVANCED_VIDEO_PARAM
 GLOBAL_PARAM (For a list of the elements in the *GLOBAL_PARAM* element, see [GLOBAL_PARAM](#) on page 33.)
 ANNEXES
 ANNEX
 RESOLUTION (the following values were added in RMX: **2cif**, **2sif**, **4sif**, **525sd**, **625sd**, **720p** and **1080p**)
 (In V2.0 the **1080p** value was removed)
 VIDEO_FRAME_RATE
 RESOLUTION_WIDTH (new in RMX) (The resolution width. Mainly relevant for non-standard resolutions, that is, when the value of the **RESOLUTION** element is **unknown**.)
 RESOLUTION_HEIGHT (new in RMX) (The resolution height. Mainly relevant for non-standard resolutions, that is, when the value of the **RESOLUTION** element is **unknown**.)
 ADVANCED_VIDEO_IN
 ADVANCED_VIDEO_PARAM (For a list of the elements in the *ADVANCED_VIDEO_PARAM* element, see [ADVANCED_VIDEO_PARAM](#) on page 32.)
 RTP_INFO (For a list of the elements in the *RTP_INFO* element, see [RTP_INFO](#) on page 31.)

ERROR_RESILIENCE
 ACCUMULATE
 ACCUMULATE_PERCENT
 INTERVAL_PERCENT
 INTERVAL_NUMBER
 INTERVAL_PEAK

ADVANCED_FECC_IN
 GLOBAL_PARAM (*For a list of the elements in the GLOBAL_PARAM element, see [GLOBAL_PARAM](#) on page 33.*)

RTP_PACKET_LOSS
 ACCUMULATE
 ACCUMULATE_PERCENT
 INTERVAL_PERCENT
 INTERVAL_NUMBER
 INTERVAL_PEAK

RTP_OUT_OF_ORDER
 ACCUMULATE
 ACCUMULATE_PERCENT
 INTERVAL_PERCENT
 INTERVAL_NUMBER
 INTERVAL_PEAK

RTP_FRAGMENT_PACKETS
 ACCUMULATE
 ACCUMULATE_PERCENT
 INTERVAL_PERCENT
 INTERVAL_NUMBER
 INTERVAL_PEAK

GLOBAL_PARAM
 BASIC_PARAM (*For a list of the elements in the BASIC_PARAM element, see [BASIC_PARAM](#) on page 30.*)

 NUMBER_OF_PACKETS

 LATENCY

 PACKET_LOSS (*In V2.0 the type was changed from **integer** to **double***)

 JITTER

 JITTER_PEAK

 FRACTION_LOSS

 FRACTION_LOSS_PEAK

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