**3GPP TSG-CT1 Meeting #136-e *C1-223919***

**Online, , 12th May 2022 - 20th May 2022**

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| *CR-Form-v12.2* |
| **CHANGE REQUEST** |
|  |
|  | **24.481** | **CR** | **0060** | **rev** | 1 | **Current version:** | **17.4.0** |  |
|  |
| *For* [***HE******LP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* |
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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network |  | Core Network | **X** |

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| --- |
|  |
| ***Title:***  | Group configuration update for disabling FAs de-affiliation |
|  |  |
| ***Source to WG:*** | Nokia, Nokia Shanghai Bell |
| ***Source to TSG:*** | C1 |
|  |  |
| ***Work item code:*** | eMONASTERY2 |  | ***Date:*** | 2022-05-05 |
|  |  |  |  |  |
| ***Category:*** | **B** |  | ***Release:*** | Rel-17 |
|  | *Use one of the following categories:****F*** *(correction)****A*** *(mirror corresponding to a change in an earlier release)****B*** *(addition of feature),* ***C*** *(functional modification of feature)****D*** *(editorial modification)*Detailed explanations of the above categories canbe found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | *Use one of the following releases:Rel-8 (Release 8)Rel-9 (Release 9)Rel-10 (Release 10)Rel-11 (Release 11)…Rel-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19)* |
|  |  |
| ***Reason for change:*** | TS 23.280 specifies as part of affiliation an extra authorization check based on the FA, to implement stage 1 requirements 3GPP TS 22.280 [R-6.4.4-003] and [R-6.4.4-004]." The authorisation check includes whether the MC service user has activated a certain functional alias which prevents de-affiliating or whether the MC service user is the last user who has bound a certain functional alias to the group which also prevents de-affiliating."In particular, a mechanism is introduced that based on group configuration may prevent de-affiliation when using a specific functional alias(es). |
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| ***Summary of change:*** | Extend group configuration with 2 lists of FAs that cannot be deaffiliated.  |
|  |  |
| ***Consequences if not approved:*** | Deaffiliation cannot be blocked based on the FA. |
|  |  |
| ***Clauses affected:*** | 7.2.2, 7.2.4.2, 7.2.8 |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** |  | **X** |  Other core specifications  | TS/TR ... CR ...  |
| ***affected:*** |  | **X** |  Test specifications | TS/TR ... CR ...  |
| ***(show related CRs)*** |  | **X** |  O&M Specifications | TS/TR ... CR ...  |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

1st change

### 7.2.2 Structure

NOTE 1: An MCS group document can contain further attributes and elements from any namespaces, according to the XML schemas of the MCS group document.

NOTE 2: For historical reasons, element names or attribute names can contain "mcptt". However, such elements and such attributes can be used in any MCS (the MCPTT or an MCS which is not the MCPTT).

The group document structure is described in the OMA OMA-TS-XDM\_Group-V1\_1\_1 [3] "*Structure*" with the MCS specific clarifications specified in this subclause.

The <list-service> element specified in OMA OMA-TS-XDM\_Group-V1\_1\_1 [3] of an MCS group document:

a) shall include a "uri" attribute specified in OMA OMA-TS-XDM\_Group-V1\_1\_1 [3];

b) may include a <display-name> element specified in OMA OMA-TS-XDM\_Group-V1\_1\_1 [3];

c) may include a <list> element specified in OMA OMA-TS-XDM\_Group-V1\_1\_1 [3];

d) may include a <ruleset> element specified in OMA OMA-TS-XDM\_Group-V1\_1\_1 [3];

e) shall include a <supported-services> element specified in OMA OMA-TS-XDM\_Group-V1\_1\_1 [3];

g) may include a <on-network-disabled> element specified in subclause 7.2.4.2;

h) may include a <on-network-temporary> element specified in subclause 7.2.4.2;

i) may include zero or more <on-network-regrouped> elements specified in subclause 7.2.4.2;

j) may include an <off-network-ProSe-layer-2-group-id> element specified in subclause 7.2.4.2;

k) may include an <off-network-PDN-type> element specified in subclause 7.2.4.2. In the present document, the <event> element can only have the values specified by the off-network-PDN-type-value ABNF rule of table 7.2.2-1;

l) may include an <off-network-IP-multicast-address> element specified in subclause 7.2.4.2 containing a IP multicast address. If the IP multicast address is an IPv4 address, its value is coded as a string representing the dotted-decimal format of the IPv4 address as specified in IETF RFC 1166 [8]. If the IP multicast address is an IPv6 address, its value is coded as a string representing the canonical text representation format of the IPv6 address as specified in IETF RFC 5952 [9];

m) may include an <off-network-ProSe-relay-service-code> element specified in subclause 7.2.4.2;

n) may include an <owner> element specified in subclause 7.2.4.2;

o) may include a <level-within-group-hierarchy> element specified in subclause 7.2.4.2;

p) may include a <level-within-user-hierarchy> element specified in subclause 7.2.4.2;

q) may include a <preconfigured-group-use-only> element specified in subclause 7.2.4.2;

x) may include a <forbidden-deaffiliation-FAs> element specified in subclause 7.2.4.2; and

y) may include a <forbidden-deaffiliation-if-last-FAs> element specified in subclause 7.2.4.2.

The <list-service> element specified in OMA OMA-TS-XDM\_Group-V1\_1\_1 [3] of an MCPTT group document additionally:

a) may include an <on-network-invite-members> element specified in subclause 7.2.4.2;

b) may include a <on-network-group-priority> element specified in subclause 7.2.4.2;

c) may include a <on-network-max-participant-count> element specified in subclause 7.2.4.2;

d) may include an <off-network-ProSe-signalling-PPPP> element specified in subclause 7.2.4.2;

e) may include an <off-network-ProSe-emergency-call-signalling-PPPP> element specified in subclause 7.2.4.2;

f) may include an <off-network-ProSe-imminent-peril-call-signalling-PPPP> element specified in subclause 7.2.4.2;

g) may include an <off-network-ProSe-media-PPPP> element specified in subclause 7.2.4.2;

h) may include an <off-network-ProSe-emergency-call-media-PPPP> element specified in subclause 7.2.4.2;

i) may include an <off-network-ProSe-imminent-peril-call-media-PPPP> element specified in subclause 7.2.4.2;

j) may include a <preferred-voice-encodings> element specified in subclause 7.2.4.2;

k) may include an <on-network-in-progress-emergency-state-cancellation-timeout> element specified in subclause 7.2.4.2;

l) may include an <on-network-in-progress-imminent-peril-state-cancellation-timeout> element specified in subclause 7.2.4.2;

m) may include an <off-network-in-progress-emergency-state-cancellation-timeout> element specified in subclause 7.2.4.2;

n) may include an <off-network-in-progress-imminent-peril-state-cancellation-timeout> element specified in subclause 7.2.4.2;

o) may include an <on-network-hang-timer> element specified in subclause 7.2.4.2;

p) may include an <on-network-maximum-duration> element specified in subclause 7.2.4.2;

q) may include an <off-network-hang-timer> element specified in subclause 7.2.4.2;

r) may include an <off-network-maximum-duration> element specified in subclause 7.2.4.2;

s) may include an <on-network-minimum-number-to-start> element specified in subclause 7.2.4.2;

t) may include an <on-network-timeout-for-acknowledgement-of-required-members> element specified in subclause 7.2.4.2;

u) may include an <on-network-action-upon-expiration-of-timeout-for-acknowledgement-of-required-members> element specified in subclause 7.2.4.2. The <on-network-action-upon-expiration-of-timeout-for-acknowledgement-of-required-members> element can only have the values specified by the on-network-action-upon-expiration-of-timeout-for-acknowledgement-of-required-members ABNF rule of table 7.2.2-1. If a value of the <on-network-action-upon-expiration-of-timeout-for-acknowledgement-of-required-members> element is other than those specified by the defined-actions ABNF rule of table 7.2.2-1, the <on-network-action-upon-expiration-of-timeout-for-acknowledgement-of-required-members> element is interpreted as having the value specified by the abandon-action ABNF rule of table 7.2.2-1;

v) may include a <protect-media> element specified in subclause 7.2.4.2;

w) may include a <protect-floor-control-signalling> element specified in subclause 7.2.4.2;

x) may include a <require-multicast-floor-control-signalling> element specified in subclause 7.2.4.2;

y) may include an <off-network-queue-usage> element specified in subclause 7.2.4.2;

z) may include an <mcptt-on-network-audio-cut-in> element specified in subclause 7.2.4.2;

za) may include an <multi-talker-control> element specified in subclause 7.2.4.2;

zb) may include a <max-number-simultaneous-talkers> element specified in subclause 7.2.4.2;

zc) may include a <audio-mixing-entity> element specified in subclause  7.2.4.2. The <audio-mixing-entity> element can only have the values specified by the audio-mixing-entity ABNF rule of table 7.2.2-1. If a value of the <audio-mixing-entity> element is other than those specified by the audio-mixing-entity ABNF rule of table 7.2.2-1, the <audio-mixing-entity> element is interpreted as having the value specified by the inNetwork-value ABNF rule of table 7.2.2-1; and

zd) may include an <on-network-minimum-number-of-affiliated-members> element specified in subclause 7.2.4.2.

The <list-service> element specified in OMA OMA-TS-XDM\_Group-V1\_1\_1 [3] of an MCVideo group document additionally:

a) may include an <mcvideo-on-network-invite-members> element specified in subclause 7.2.4.2;

b) may include an <mcvideo-on-network-maximum-duration> element specified in subclause 7.2.4.2;

c) may include an <mcvideo-protect-media> element specified in subclause 7.2.4.2;

d) may include an <mcvideo-protect-transmission-control> element specified in subclause 7.2.4.2;

e) may include an <mcvideo-preferred-audio-encodings> element specified in subclause 7.2.4.2;

f) may include an <mcvideo-preferred-video-encodings> element specified in subclause 7.2.4.2;

g) may include an <mcvideo-preferred-video-resolutions> element specified in subclause 7.2.4.2;

h) may include an <mcvideo-preferred-video-frame-rate> element specified in subclause 7.2.4.2;

i) may include an <mcvideo-urgent-real-time-video-mode> element specified in subclause 7.2.4.2;

j) may include an <mcvideo-non-urgent-real-time-video-mode> element specified in subclause 7.2.4.2;

k) may include an <mcvideo-non-real-time-video-mode> element specified in subclause 7.2.4.2;

l) may include an <mcvideo-active-real-time-video-mode> element specified in subclause 7.2.4.2;

m) may include an <mcvideo-maximum-simultaneous-mcvideo-transmitting-group-members> element specified in subclause 7.2.4;

n) may include an <mcvideo-on-network-minimum-number-to-start> element specified in subclause 7.2.4.2;

o) may include an <mcvideo-on-network-group-priority> element specified in subclause 7.2.4.2;

p) may include an <mcvideo-off-network-arbitration-approach> element specified in subclause 7.2.4.2;

q) may include an <mcvideo-off-network-maximum-simultaneous-transmissions> element specified in subclause 7.2.4.2;

r) may include an <mcvideo-off-network-ProSe-signalling-PPPP> element specified in subclause 7.2.4.2;

s) may include an <mcvideo-off-network-ProSe-emergency-call-signalling-PPPP> element specified in subclause 7.2.4.2;

t) may include an <mcvideo-off-network-ProSe-imminent-peril-call-signalling-PPPP> element specified in subclause 7.2.4.2;

u) may include an <mcvideo-off-network-ProSe-media-PPPP> element specified in subclause 7.2.4.2;

v) may include an <mcvideo-off-network-ProSe-emergency-call-media-PPPP> element specified in subclause 7.2.4.2;

w) may include an <mcvideo-off-network-ProSe-imminent-peril-call-media-PPPP> element specified in subclause 7.2.4.2;

x) may include an <mcvideo-off-network-maximum-duration> element specified in subclause 7.2.4.2;

y) may include an <mcvideo-off-network-in-progress-emergency-state-cancellation-timeout> element specified in subclause 7.2.4.2; and

z) may include an <mcvideo-off-network-in-progress-imminent-peril-state-cancellation-timeout> element specified in subclause 7.2.4.2.

The <list-service> element specified in OMA OMA-TS-XDM\_Group-V1\_1\_1 [3] of an MCData group document additionally:

a) may include an <mcdata-protect-media> element specified in subclause 7.2.4.2;

b) may include an <mcdata-protect-transmission-control> element specified in subclause 7.2.4.2;

c) may include an <mcdata-allow-short-data-service> element specified in subclause 7.2.4.2;

d) may include an <mcdata-allow-file-distribution> element specified in subclause 7.2.4.2;

e) may include an <mcdata-allow-conversation-management> element specified in subclause 7.2.4.2;

f) may include an <mcdata-allow-tx-control> element specified in subclause 7.2.4.2;

g) may include an <mcdata-allow-rx-control> element specified in subclause 7.2.4.2;

h) may include an <mcdata-allow-enhanced-status> element specified in subclause 7.2.4.2;

i) may include an <mcdata-enhanced-status-operational-values> element specified in subclause 7.2.4.2;

j) may include an <mcdata-on-network-group-priority> element specified in subclause 7.2.4.2;

k) may include an <mcdata-on-network-max-data-size-for-SDS> element specified in subclause 7.2.4.2;

l) may include an <mcdata-on-network-max-data-size-for-FD> element specified in subclause 7.2.4.2;

m) may include an <mcdata-on-network-max-data-size-auto-recv> element specified in subclause 7.2.4.2;

n) may include an <mcdata-off-network-ProSe-signalling-PPPP> element specified in subclause 7.2.4.2; and

o) may include an <mcdata-off-network-ProSe-media-PPPP> element specified in subclause 7.2.4.2.

The <list> element specified in OMA OMA-TS-XDM\_Group-V1\_1\_1 [3] of an MCS group document:

a) may include zero or more <entry> elements specified in OMA OMA-TS-XDM\_Group-V1\_1\_1 [3].

The <entry> element specified in OMA OMA-TS-XDM\_Group-V1\_1\_1 [3] of an MCS group document:

a) shall include a "uri" attribute specified in OMA OMA-TS-XDM\_Group-V1\_1\_1 [3];

b) may include a <display-name> element specified in OMA OMA-TS-XDM\_Group-V1\_1\_1 [3];

c) may include a <user-priority> element specified in subclause 7.2.4.2;

d) may include a <user-reception-priority> element specified in subclause 7.2.4.2; and

e) may include a <participant-type> element specified in subclause 7.2.4.2.

The <entry> element specified in OMA OMA-TS-XDM\_Group-V1\_1\_1 [3] of an MCPTT group document additionally:

a) may include a <on-network-required> element specified in subclause 7.2.4.2;

b) may include an <on-network-recvonly> element specified in subclause 7.2.4.2;

c) may include a <multi-talker-allowed> element specified in subclause 7.2.4.2; and

d) may include an <on-network-affiliation-to-group-required> element specified in subclause 7.2.4.2.

The <entry> element specified in OMA OMA-TS-XDM\_Group-V1\_1\_1 [3] of an MCVideo group document additionally:

a) may include an <mcvideo-on-network-required> element specified in subclause 7.2.4.2; and

b) shall include an <mcvideo-mcvideo-id> element specified in subclause 7.2.4.2.

The <entry> element specified in OMA OMA-TS-XDM\_Group-V1\_1\_1 [3] of an MCData group document additionally:

a) may include an <mcdata-max-data-in-single-request> element specified in subclause 7.2.4.2;

b) may include an <mcdata-max-time-in-single-request> element specified in subclause 7.2.4.2; and

c) shall include an <mcdata-mcdata-id> element specified in subclause 7.2.4.2.

The <ruleset> element specified in OMA OMA-TS-XDM\_Group-V1\_1\_1 [3] of an MCS group document:

a) may include zero or more <rule> elements specified in OMA OMA-TS-XDM\_Group-V1\_1\_1 [3].

The <rule> element specified in OMA OMA-TS-XDM\_Group-V1\_1\_1 [3] of an MCS group document:

a) may include a <conditions> element specified in OMA OMA-TS-XDM\_Group-V1\_1\_1 [3]; and

b) may include an <actions> element specified in OMA OMA-TS-XDM\_Group-V1\_1\_1 [3].

The <conditions> element specified in OMA OMA-TS-XDM\_Group-V1\_1\_1 [3] of an MCS group document:

a) may include an <identity> element specified in OMA OMA-TS-XDM\_Group-V1\_1\_1 [3]; and

b) may include an <is-list-member> element specified in OMA OMA-TS-XDM\_Group-V1\_1\_1 [3].

The <actions> element specified in OMA OMA-TS-XDM\_Group-V1\_1\_1 [3] of an MCS group document:

a) may include an <on-network-allow-getting-member-list> element specified in subclause 7.2.4.2.

The <actions> element specified in OMA OMA-TS-XDM\_Group-V1\_1\_1 [3] of an MCPTT group document additionally:

a) may include an <allow-initiate-conference> element specified in OMA OMA-TS-XDM\_Group-V1\_1\_1 [3];

b) may include a <join-handling> element specified in OMA OMA-TS-XDM\_Group-V1\_1\_1 [3];

c) may include an <allow-MCPTT-emergency-call> element specified in subclause 7.2.4.2;

d) may include an <allow-imminent-peril-call> element specified in subclause 7.2.4.2;

e) may include an <allow-MCPTT-emergency-alert> element specified in subclause 7.2.4.2;

f) may include an <on-network-allow-getting-affiliation-list> element specified in subclause 7.2.4.2; and

g) may include an <on-network-allow-conference-state> element specified in subclause 7.2.4.2.

The <actions> element specified in OMA OMA-TS-XDM\_Group-V1\_1\_1 [3] of an MCVideo group document additionally:

a) may include an <mcvideo-allow-emergency-call> element specified in subclause 7.2.4.2;

b) may include an <mcvideo-allow-emergency-alert> element specified in subclause 7.2.4.2;

c) may include an <mcvideo-allow-imminent-peril-call> element specified in subclause 7.2.4.2;

d) may include an <mcvideo-on-network-allow-conference-state> element specified in subclause 7.2.4.2; and

e) may include an <mcvideo-on-network-allow-getting-affiliation-list> element specified in subclause 7.2.4.2.

The <actions> element specified in OMA OMA-TS-XDM\_Group-V1\_1\_1 [3] of an MCData group document additionally:

a) may include an <mcdata-on-network-allow-getting-affiliation-list> specified in subclause 7.2.4.2;

b) may include an <mcdata-allow-transmit-data-in-this-group> element specified in subclause 7.2.4.2; and

c) may include an <mcdata-allow-emergency-alert> element specified in subclause 7.2.4.2.

The <supported-services> element specified in OMA OMA-TS-XDM\_Group-V1\_1\_1 [3] of an MCS group document:

a) shall include one or more <service> element specified in OMA OMA-TS-XDM\_Group-V1\_1\_1 [3].

The MCPTT specific <service> element specified in OMA OMA-TS-XDM\_Group-V1\_1\_1 [3] of an MCPTT group document:

a) shall include an "enabler" attribute specified in OMA OMA-TS-XDM\_Group-V1\_1\_1 [3] including a string defining an enabler. The "enabler" attribute is set to the MCPTT ICSI specified in the 3GPP TS 24.379 [5]; and

b) shall include a <group-media> element specified in OMA OMA-TS-XDM\_Group-V1\_1\_1 [3].

The MCVideo specific <service> element specified in OMA OMA-TS-XDM\_Group-V1\_1\_1 [3] of an MCVideo group document:

a) shall include an "enabler" attribute specified in OMA OMA-TS-XDM\_Group-V1\_1\_1 [3] including a string defining an enabler. The "enabler" attribute is set to the MCVideo ICSI specified in the 3GPP TS 24.281 [26]; and

b) shall include a <group-media> element specified in OMA OMA-TS-XDM\_Group-V1\_1\_1 [3].

The MCData specific <service> element specified in OMA OMA-TS-XDM\_Group-V1\_1 [3] of an MCData group document:

a) shall include an "enabler" attribute specified in OMA OMA-TS-XDM\_Group-V1\_1 [3] including a string defining an enabler. The "enabler" attribute is set to one of:

1) the ICSI value for mission critical data (MCData) communications short data service (SDS) specified in the 3GPP TS 24.282 [27];

2) the ICSI value for mission critical data (MCData) communications file distribution (FD) specified in the 3GPP TS 24.282 [27]; or

3) the ICSI value for mission critical data (MCData) communications enhanced service (ES) specified in the 3GPP TS 24.282 [27].

The <group-media> element specified in OMA OMA-TS-XDM\_Group-V1\_1\_1 [3] of the MCPTT specific <service> element of an MCPTT group document:

a) shall include an <mcptt-speech> element specified in subclause 7.2.4.2.

The <group-media> element specified in OMA OMA-TS-XDM\_Group-V1\_1\_1 [3] of the MCVideo specific <service> element of an MCVideo group document:

a) shall include an <mcvideo-video-media> element specified in subclause 7.2.4.2.

The <on-network-temporary> element specified in subclause 7.2.4.2 of an MCS group document:

a) shall include a <constituent-MCPTT-group-IDs> element specified in subclause 7.2.4.2; and

b) may include an <anyExt> element specified in subclause 7.2.4.2.

The <constituent-MCPTT-group-IDs> element specified in subclause 7.2.4.2 of an MCS group document:

a) may include zero, or more <constituent-MCPTT-group-ID> elements specified in subclause 7.2.4.2; and

b) may include an <anyExt> element specified in subclause 7.2.4.2.

The <on-network-regrouped> element specified in subclause 7.2.4.2 of an MCS group document:

a) shall include a "temporary-MCPTT-group-ID" attribute specified in subclause 7.2.4.2;

b) shall include a "temporary-MCPTT-group-requestor" attribute specified in subclause 7.2.4.2;

c) shall include a <constituent-MCPTT-group-IDs> element specified in subclause 7.2.4.2. and

d) may include an <anyExt> element specified in subclause 7.2.4.2.

The <on-network-regrouped> element specified in subclause 7.2.4.2 of an MCPTT group document:

NOTE 3: MCPTT parameters defined in release 13 are included in the <on-network-regrouped> element. MCPTT parameters defined in a release later than release 13 are included in the <anyExt> element of the <on-network-regrouped> element.

d) may include a <on-network-group-priority> element specified in subclause 7.2.4.2;

e) may include a <protect-media> element specified in subclause 7.2.4.2;

f) may include a <protect floor-control-signalling> element specified in subclause 7.2.4.2; and

g) may include a <require-multicast-floor-control-signalling> element specified in subclause 7.2.4.2.

The <preferred-voice-encodings> element specified in subclause 7.2.4.2 of an MCPTT group document:

a) shall include one or more <encoding> element specified in subclause 7.2.4.2.

The <mcvideo-preferred-audio-encodings> element specified in subclause 7.2.4.2 of an MCVideo group document:

a) shall include one or more <encoding> element specified in subclause 7.2.4.2.

The <mcvideo-preferred-video-encodings> element specified in subclause 7.2.4.2 of an MCVideo group document:

a) shall include one or more <encoding> element specified in subclause 7.2.4.2.

The <encoding> element specified in subclause 7.2.4.2 of an MCS group document:

a) shall include a "name" attribute with value equal to a value of the <encoding name> field of a=rtpmap attribute as defined in IETF RFC 4566 [20].

Table 7.2.2-1: ABNF syntax of values of the elements

off-network-PDN-type-values = IPv4-value / IPv6-value

IPv4-value = %x49.50.76.34 ; "IPv4"

IPv6-value = %x49.50.76.36 ; "IPv6"

on-network-action-upon-expiration-of-timeout-for-acknowledgement-of-required-members

 = defined-actions / future-actions

defined-actions = proceed-action / abandon-action

proceed-action = %x70.72.6f.63.65.65.64 ; "proceed"

abandon-action = %x61.62.61.6e.64.6f.6e ; "abandon"

future-actions = 1\*( ALPHA / DIGIT / "-" )

audio-mixing-entity = inUE-value / inNetwork-value

inUE-value = %x55.45 ; "UE"

inNetwork-value = %x4E.57 ; "NW"

Elements and attributes of the group document are defined in various namespaces. The group document refers to namespaces using prefixes specified in table 7.2.2-2.

Table 7.2.2-2: Assignment of prefixes to namespace names in group documents

|  |  |
| --- | --- |
| Prefix | Namespace |
| rl | urn:ietf:params:xml:ns:resource-lists |
| cp | urn:ietf:params:xml:ns:common-policy |
| ocp | urn:oma:xml:xdm:common-policy |
| oxe | urn:oma:xml:xdm:extensions |
| mcpttgi | urn:3gpp:ns:mcpttGroupInfo:1.0 |
| NOTE: The "urn:oma:xml:poc:list-service" namespace is the default namespace so no prefix is used for it in the group document. |

The <mcvideo-mcvideo-id> element specified in OMA OMA-TS-XDM\_Group-V1\_1\_1 [3] of an MCVideo group document

a) shall include a "uri" attribute specified in IETF RFC 4826 [28].

The <mcdata-mcdata-id> element specified in OMA OMA-TS-XDM\_Group-V1\_1\_1 [3] of an MCData group document:

a) shall include a "uri" attribute specified in IETF RFC 4826 [28].

<anyExt> element contains elements defined by future versions of the present document.

2nd change

#### 7.2.4.2 XML schema for MCS specific extensions

<?xml version="1.0" encoding="UTF-8"?>

<xs:schema

 targetNamespace="urn:3gpp:ns:mcpttGroupInfo:1.0"

 xmlns:xs="http://www.w3.org/2001/XMLSchema"

 xmlns:mcpttgi="urn:3gpp:ns:mcpttGroupInfo:1.0"

 xmlns:oxe="urn:oma:xml:xdm:extensions"

 xmlns:rl="urn:ietf:params:xml:ns:resource-lists"

 elementFormDefault="qualified" attributeFormDefault="unqualified">

 <xs:import namespace="urn:oma:xml:xdm:extensions"/>

 <xs:import namespace="urn:ietf:params:xml:ns:resource-lists"/>

 <!-- MCS specific "list-service" child elements -->

 <xs:element name="on-network-disabled" type="mcpttgi:emptyType"/>

 <xs:element name="on-network-temporary" type="mcpttgi:temporaryType"/>

 <xs:element name="on-network-regrouped" type="mcpttgi:regroupedType"/>

 <xs:element name="off-network-ProSe-layer-2-group-id" type="xs:hexBinary"/>

 <xs:element name="off-network-IP-multicast-address" type="xs:string"/>

 <xs:element name="off-network-PDN-type" type="xs:string"/>

 <xs:element name="off-network-ProSe-relay-service-code" type="xs:hexBinary"/>

 <xs:element name="owner" type="xs:string"/>

 <xs:element name="level-within-group-hierarchy" type="xs:unsignedShort"/>

 <xs:element name="level-within-user-hierarchy" type="xs:unsignedShort"/>

 <xs:element name="preconfigured-group-use-only" type="xs:boolean"/>

 <!-- MCPTT specific "list-service" child elements -->

 <xs:element name="on-network-group-priority" type="mcpttgi:priorityType"/>

 <xs:element name="off-network-ProSe-signalling-PPPP" type="xs:hexBinary"/>

 <xs:element name="off-network-ProSe-emergency-call-signalling-PPPP" type="xs:hexBinary"/>

 <xs:element name="off-network-ProSe-imminent-peril-call-signalling-PPPP" type="xs:hexBinary"/>

 <xs:element name="off-network-ProSe-media-PPPP" type="xs:hexBinary"/>

 <xs:element name="off-network-ProSe-emergency-call-media-PPPP" type="xs:hexBinary"/>

 <xs:element name="off-network-ProSe-imminent-peril-call-media-PPPP" type="xs:hexBinary"/>

 <xs:element name="on-network-max-participant-count" type="xs:nonNegativeInteger"/>

 <xs:element name="on-network-invite-members" type="xs:boolean"/>

 <xs:element name="preferred-voice-encodings" type="mcpttgi:encodingsType"/>

 <xs:element name="on-network-in-progress-emergency-state-cancellation-timeout" type="xs:duration"/>

 <xs:element name="on-network-in-progress-imminent-peril-state-cancellation-timeout" type="xs:duration"/>

 <xs:element name="off-network-in-progress-emergency-state-cancellation-timeout" type="xs:duration"/>

 <xs:element name="off-network-in-progress-imminent-peril-state-cancellation-timeout" type="xs:duration"/>

 <xs:element name="on-network-hang-timer" type="xs:duration"/>

 <xs:element name="on-network-maximum-duration" type="xs:duration"/>

 <xs:element name="off-network-hang-timer" type="xs:duration"/>

 <xs:element name="off-network-maximum-duration" type="xs:duration"/>

 <xs:element name="on-network-minimum-number-to-start" type="xs:unsignedShort"/>

 <xs:element name="on-network-timeout-for-acknowledgement-of-required-members" type="xs:duration"/>

 <xs:element name="on-network-action-upon-expiration-of-timeout-for-acknowledgement-of-required-members" type="xs:string"/>

 <xs:element name="protect-media" type="xs:boolean"/>

 <xs:element name="protect-floor-control-signalling" type="xs:boolean"/>

 <xs:element name="require-multicast-floor-control-signalling" type="mcpttgi:emptyType"/>

 <xs:element name="off-network-queue-usage" type="xs:boolean"/>

 <xs:element name="mcptt-on-network-audio-cut-in" type="xs:boolean"/>

 <xs:element name="multi-talker-control" type="xs:boolean"/>

 <xs:element name="max-number-simultaneous-talkers" type="xs:positiveInteger"/>

 <xs:element name="audio-mixing-entity" type="xs:string"/>

 <xs:element name="on-network-minimum-number-of-affiliated-members" type="xs:positiveInteger"/>

 <xs:element name="forbidden-deaffiliation-FAs" type="mcpttgi:EntryInfoTypeList"/>

 <xs:element name="forbidden-deaffiliation-if-last-FAs" type="mcpttgi:EntryInfoTypeList"/>

 <!-- MCVideo specific "list-service" child elements -->

 <xs:element name="mcvideo-on-network-invite-members" type="xs:boolean"/>

 <xs:element name="mcvideo-on-network-maximum-duration" type="xs:duration"/>

 <xs:element name="mcvideo-protect-media" type="xs:boolean"/>

 <xs:element name="mcvideo-protect-transmission-control" type="xs:boolean"/>

 <xs:element name="mcvideo-preferred-audio-encodings" type="mcpttgi:encodingsType"/>

 <xs:element name="mcvideo-preferred-video-encodings" type="mcpttgi:encodingsType"/>

 <xs:element name="mcvideo-preferred-video-resolutions" type="xs:string"/>

 <xs:element name="mcvideo-preferred-video-frame-rate" type="xs:string"/>

 <xs:element name="mcvideo-urgent-real-time-video-mode" type="xs:boolean"/>

 <xs:element name="mcvideo-non-urgent-real-time-video-mode" type="xs:boolean"/>

 <xs:element name="mcvideo-non-real-time-video-mode" type="xs:boolean"/>

 <xs:element name="mcvideo-active-real-time-video-mode" type="xs:string"/>

 <xs:element name="mcvideo-maximum-simultaneous-mcvideo-transmitting-group-members" type="xs:nonNegativeInteger"/>

 <xs:element name="mcvideo-on-network-minimum-number-to-start" type="xs:unsignedShort"/>

 <xs:element name="mcvideo-on-network-group-priority" type="mcpttgi:priorityType"/>

 <xs:element name="mcvideo-off-network-arbitration-approach" type="xs:string"/>

 <xs:element name="mcvideo-off-network-maximum-simultaneous-transmissions" type="xs:nonNegativeInteger"/>

 <xs:element name="mcvideo-off-network-ProSe-signalling-PPPP" type="xs:hexBinary"/>

 <xs:element name="mcvideo-off-network-ProSe-emergency-call-signalling-PPPP" type="xs:hexBinary"/>

 <xs:element name="mcvideo-off-network-ProSe-imminent-peril-call-signalling-PPPP" type="xs:hexBinary"/>

 <xs:element name="mcvideo-off-network-ProSe-media-PPPP" type="xs:hexBinary"/>

 <xs:element name="mcvideo-off-network-ProSe-emergency-call-media-PPPP" type="xs:hexBinary"/>

 <xs:element name="mcvideo-off-network-ProSe-imminent-peril-call-media-PPPP" type="xs:hexBinary"/>

 <xs:element name="mcvideo-off-network-in-progress-emergency-state-cancellation-timeout" type="xs:duration"/>

 <xs:element name="mcvideo-off-network-in-progress-imminent-peril-state-cancellation-timeout" type="xs:duration"/>

 <xs:element name="mcvideo-off-network-maximum-duration" type="xs:duration"/>

 <!-- MCData specific "list-service" child elements -->

 <xs:element name="mcdata-protect-media" type="xs:boolean"/>

 <xs:element name="mcdata-protect-transmission-control" type="xs:boolean"/>

 <xs:element name="mcdata-allow-short-data-service" type="xs:boolean"/>

 <xs:element name="mcdata-allow-file-distribution" type="xs:boolean"/>

 <xs:element name="mcdata-allow-conversation-management" type="xs:boolean"/>

 <xs:element name="mcdata-allow-tx-control" type="xs:boolean"/>

 <xs:element name="mcdata-allow-rx-control" type="xs:boolean"/>

 <xs:element name="mcdata-allow-enhanced-status" type="xs:boolean"/>

 <xs:element name="mcdata-enhanced-status-operational-values" type="mcpttgi:enhancedStatusList"/>

 <xs:element name="mcdata-on-network-max-data-size-for-SDS" type="xs:unsignedInt"/>

 <xs:element name="mcdata-on-network-max-data-size-for-FD" type="xs:unsignedInt"/>

 <xs:element name="mcdata-on-network-max-data-size-auto-recv" type="xs:unsignedInt"/>

 <xs:element name="mcdata-on-network-group-priority" type="mcpttgi:priorityType"/>

 <xs:element name="mcdata-off-network-ProSe-signalling-PPPP" type="xs:hexBinary"/>

 <xs:element name="mcdata-off-network-ProSe-media-PPPP" type="xs:hexBinary"/>

 <!-- MCS specific "entry" child elements -->

 <xs:element name="user-priority" type="mcpttgi:priorityType"/>

 <xs:element name="user-reception-priority" type="mcpttgi:priorityType"/>

 <xs:element name="participant-type" type="xs:string"/>

 <!-- MCPTT specific "entry" child elements -->

 <xs:element name="on-network-required" type="mcpttgi:emptyType"/>

 <xs:element name="on-network-recvonly" type="mcpttgi:emptyType"/>

 <xs:element name="multi-talker-allowed" type="mcpttgi:emptyType"/>

 <xs:element name="on-network-affiliation-to-group-required" type="mcpttgi:emptyType"/>

 <!-- MCVideo specific "entry" child elements -->

 <xs:element name="mcvideo-on-network-required" type="mcpttgi:emptyType"/>

 <xs:element name="mcvideo-mcvideo-id" type="rl:entryType"/>

 <!-- MCData specific "entry" child elements -->

 <xs:element name="mcdata-max-data-in-single-request" type="xs:unsignedInt"/>

 <xs:element name="mcdata-max-time-in-single-request" type="xs:duration"/>

 <xs:element name="mcdata-mcdata-id" type="rl:entryType"/>

 <!-- MCS specific "actions" child elements -->

 <xs:element name="on-network-allow-getting-member-list" type="xs:boolean"/>

 <!-- MCPTT specific "actions" child elements -->

 <xs:element name="allow-MCPTT-emergency-call" type="xs:boolean"/>

 <xs:element name="allow-imminent-peril-call" type="xs:boolean"/>

 <xs:element name="allow-MCPTT-emergency-alert" type="xs:boolean"/>

 <xs:element name="on-network-allow-getting-affiliation-list" type="xs:boolean"/>

 <xs:element name="on-network-allow-conference-state" type="xs:boolean"/>

 <!-- MCVideo specific "actions" child elements -->

 <xs:element name="mcvideo-allow-emergency-call" type="xs:boolean"/>

 <xs:element name="mcvideo-allow-emergency-alert" type="xs:boolean"/>

 <xs:element name="mcvideo-allow-imminent-peril-call" type="xs:boolean"/>

 <xs:element name="mcvideo-on-network-allow-conference-state" type="xs:boolean"/>

 <xs:element name="mcvideo-on-network-allow-getting-affiliation-list" type="xs:boolean"/>

 <!-- MCData specific "actions" child elements -->

 <xs:element name="mcdata-allow-transmit-data-in-this-group" type="xs:boolean"/>

 <xs:element name="mcdata-on-network-allow-getting-affiliation-list" type="xs:boolean"/>

 <xs:element name="mcdata-allow-emergency-alert" type="xs:boolean"/>

 <!-- MCPTT specific media elements -->

 <xs:element name="mcptt-speech" type="oxe:extensionType"/>

 <!-- MCVideo specific media elements -->

 <xs:element name="mcvideo-video-media" type="oxe:extensionType"/>

 <!-- MCData specific media elements -->

 <!-- MCS specific complex type definitions -->

 <!-- empty complex type -->

 <xs:complexType name="emptyType"/>

 <!-- complex type for temporary element -->

 <xs:complexType name="temporaryType">

 <xs:sequence>

 <xs:element name="constituent-MCPTT-group-IDs"

 type="mcpttgi:constituentMCPTTgroupTypeIDsType"/>

 <xs:element name="anyExt" type="mcpttgi:anyExtType" minOccurs="0"/>

 <xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>

 </xs:sequence>

 <xs:anyAttribute namespace="##any" processContents="lax"/>

 </xs:complexType>

 <!-- complex type for constituent-MCPTT-group-ID element -->

 <xs:complexType name="constituentMCPTTgroupTypeIDsType">

 <xs:sequence>

 <xs:element name="constituent-MCPTT-group-ID" type="xs:anyURI" minOccurs="0" maxOccurs="unbounded"/>

 <xs:element name="anyExt" type="mcpttgi:anyExtType" minOccurs="0"/>

 <xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>

 </xs:sequence>

 <xs:anyAttribute namespace="##any" processContents="lax"/>

 </xs:complexType>

 <!-- complex type for regrouped element -->

 <xs:complexType name="regroupedType">

 <xs:sequence>

 <xs:element name="constituent-MCPTT-group-IDs"

 type="mcpttgi:constituentMCPTTgroupTypeIDsType"/>

 <!-- MCPTT specific extensions for regroupedType type defined in release 13 -->

 <xs:element ref="mcpttgi:on-network-group-priority" minOccurs="0"/>

 <xs:element ref="mcpttgi:protect-media" minOccurs="0"/>

 <xs:element ref="mcpttgi:protect-floor-control-signalling" minOccurs="0"/>

 <xs:element ref="mcpttgi:require-multicast-floor-control-signalling" minOccurs="0"/>

 <xs:element name="anyExt" type="mcpttgi:anyExtType" minOccurs="0"/>

 <xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>

 </xs:sequence>

 <xs:attribute name="temporary-MCPTT-group-ID" type="xs:anyURI" use="required"/>

 <xs:attribute name="temporary-MCPTT-group-requestor" type="xs:anyURI" use="required"/>

 <xs:anyAttribute namespace="##any" processContents="lax"/>

 </xs:complexType>

 <!-- complex type for list of entry element -->

 <xs:complexType name="ListEntryType">

 <xs:choice minOccurs="0" maxOccurs="unbounded">

 <xs:element name="entry" type="mcpttgi:EntryType"/>

 <xs:element name="anyExt" type="mcpttgi:anyExtType" minOccurs="0"/>

 <xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>

 </xs:choice>

 <xs:anyAttribute namespace="##any" processContents="lax"/>

 </xs:complexType>

 <xs:complexType name="EntryType">

 <xs:sequence>

 <xs:element name="uri-entry" type="xs:anyURI"/>

 <xs:element name="display-name" type="xs:string" minOccurs="0"/>

 <xs:element name="anyExt" type="mcpttgi:anyExtType" minOccurs="0"/>

 <xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>

 </xs:sequence>

 <xs:anyAttribute namespace="##any" processContents="lax"/>

 </xs:complexType>

 <!-- complex type for any extensions element -->

 <xs:complexType name="anyExtType">

 <xs:sequence>

 <xs:any namespace="##any" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>

 </xs:sequence>

 </xs:complexType>

 <!-- MCS specific extensions for regroupedType type -->

 <!-- MCPTT specific extensions for regroupedType type defined in a release after release 13 -->

 <!-- MCVideo specific extensions for regroupedType type -->

 <!-- MCData specific extensions for regroupedType type -->

 <!-- MCS specific complex type definitions -->

 <!-- encodingsType complex type -->

 <xs:complexType name="encodingsType">

 <xs:sequence>

 <xs:element name="encoding" type="mcpttgi:encodingType" maxOccurs="unbounded"/>

 <xs:element name="anyExt" type="mcpttgi:anyExtType" minOccurs="0"/>

 <xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>

 </xs:sequence>

 <xs:anyAttribute namespace="##any" processContents="lax"/>

 </xs:complexType>

 <!-- encodingType complex type -->

 <xs:complexType name="encodingType">

 <xs:sequence>

 <xs:element name="anyExt" type="mcpttgi:anyExtType" minOccurs="0"/>

 <xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>

 </xs:sequence>

 <xs:attribute name="name" type="xs:string" use="required"/>

 <xs:anyAttribute namespace="##any" processContents="lax"/>

 </xs:complexType>

 <!-- simple type for priority element -->

 <xs:simpleType name="priorityType">

 <xs:restriction base="xs:unsignedShort">

 <xs:minInclusive value="0"/>

 <xs:maxInclusive value="255"/>

 </xs:restriction>

 </xs:simpleType>

 <!-- MCPTT specific complex type definitions -->

 <!-- MCVideo specific complex type definitions -->

 <!-- MCData specific complex type definitions -->

 <!-- complex type for mcdata-enhanced-status-operational-values element -->

 <xs:complexType name="enhancedStatusList">

 <xs:sequence minOccurs="0" maxOccurs="65536">

 <xs:choice>

 <xs:element name="status" type="mcpttgi:enhancedStatusType"/>

 <xs:element name="anyExt" type="mcpttgi:anyExtType" minOccurs="0"/>

 <xs:any namespace="##other" processContents="lax"/>

 </xs:choice>

 </xs:sequence>

 </xs:complexType>

 <!-- complex type for enhancedStatusType element -->

 <xs:complexType name="enhancedStatusType">

 <xs:sequence>

 <xs:element name="id" type="xs:nonNegativeInteger"/>

 <xs:element name="shortText" type="mcpttgi:languageString"/>

 <xs:element name="description" type="mcpttgi:languageString"/>

 </xs:sequence>

 </xs:complexType>

 <xs:complexType name="languageString">

 <xs:sequence maxOccurs="unbounded">

 <xs:element name="langType" type="xs:language"/>

 <xs:element name="langText" type="xs:string"/>

 </xs:sequence>

 </xs:complexType>

</xs:schema>

3rd change

### 7.2.8 Data semantics

Data semantics are described in the OMA OMA-TS-XDM\_Group-V1\_1\_1 [3] "*Data Semantics*" with the MCS specific clarifications specified in this subclause.

A group document is an MCS group document if the group document:

a) is an MCPTT group document;

b) is an MCData group document;

c) is an MCVideo group document; or

d) is any combination of the previous bullets.

A group document is an MCPTT group document only if:

a) the <supported-services> element is present in the group document;

b) the <service> child element of the <supported-services> element is present;

c) the <service> element includes the "enabler" attribute set to the MCPTT ICSI specified in the 3GPP TS 24.379 [5];

d) the <group-media> child element of the <service> element is present; and

e) the <mcptt-speech> child element of the <group-media> element is present.

A group document is an MCVideo group document only if:

a) the <supported-services> element is present in the group document;

b) the <service> child element of the <supported-services> element is present;

c) the <service> element includes the "enabler" attribute set to the MCVideo ICSI specified in the 3GPP TS 24.281 [26];

d) the <group-media> child element of the <service> element is present; and

e) the <mcvideo-video-media> child element of the <group-media> element is present.

A group document is an MCData group document only if:

a) the <supported-services> element is present in the group document;

b) the <service> child element of the <supported-services> element is present; and

c) the <service> element includes the "enabler" attribute set to:

1) the ICSI value for mission critical data (MCData) communications short data service (SDS) specified in the 3GPP TS 24.282 [27];

2) the ICSI value for mission critical data (MCData) communications file distribution (FD) specified in the 3GPP TS 24.282 [27]; or

3) the ICSI value for mission critical data (MCData) communications enhanced service (ES) specified in the 3GPP TS 24.282 [27].

If a group document includes an element not specified in subclause 7.2.2 for an MCS group document and the element has the "must-understand" attribute with value "true", then the group document shall be ignored.

If a group document includes an element not specified in subclause 7.2.2 for an MCS group document and the element:

a) does not have the "must-understand" attribute with value "true"; and

b) is not a descendant of a <conditions> element;

then the element shall be ignored.

If a group document includes an element not specified in subclause 7.2.2 for an MCS group document and the element:

a) does not have the "must-understand" attribute with value "true"; and

b) is a descendant of a <conditions> element;

then the element shall be evaluated as not known element according to IETF RFC 4745 [6].

If a group document includes an attribute not specified in subclause 7.2.2 for an MCS group and different from the "must-understand" attribute, then the attribute shall be ignored.

The possible values of the <on-network-invite-members> element in the <list-service> element of the MCPTT group document are:

a) "true" which represents the pre-arranged group in on-network MCPTT procedures; and

b) "false" which represents the chat group in on-network MCPTT procedures. This value is used when the element is not present.

NOTE 1: Presence or absence of the <invite-members> element specified in OMA OMA-TS-XDM\_Group-V1\_1\_1 [3] does not impact MCS procedures.

The <display-name> element of a <list-service> element of a group document contains the group name.

The <list> element of a <list-service> element of a group document contains the group members.

The <forbidden-deaffiliation-FAs> element of a <list-service> element of a group document contains the Functional Aliases for which deaffiliation is not allowed.

The <forbidden-deaffiliation-if-last-FAs> element of a <list-service> element of a group document contains the Functional Aliases for which deaffiliation is not allowed if there is only one last user that has bound the Functional Alias to the group.

The <ruleset> element of a <list-service> element of a group document contains the authorization policy associated with this group.

The <supported-services> element of a <list-service> element of a group document contains the supported services of this group.

The "uri" attribute of a <list-service> element of a group document contains the group ID. The group ID of an MCS group document:

a) is also the MCS group identity, if the MCS group is not a temporary MCS group; and

b) is also the temporary MCS group identity, if the MCS group is a temporary MCS group.

If the MCS group document is an MCPTT group document and defines a non-temporary MCS group, the MCS group identity is also the MCPTT group ID. If the MCS group document is an MCVideo group document and defines a non-temporary MCS group, the MCS group identity is also the MCVideo group ID. If the MCS group document is an MCData group document and defines a non-temporary MCS group, the MCS group identity is also the MCData group ID.

NOTE 2: The above statements apply also when the MCS group document is of several MCSs.

If the MCS group document is an MCPTT group document and defines a temporary MCS group, the MCS group identity is also the temporary MCPTT group ID. If the MCS group document is an MCVideo group document and defines a temporary MCS group, the MCS group identity is also the temporary MCVideo group ID. If the MCS group document is an MCData group document and defines a temporary MCS group, the MCS group identity is also the temporary MCData group ID.

NOTE 3: The above rules statements also when the MCS group document is of several MCSs.

Presence of the <on-network-disabled> element in the <list-service> element of the MCS group document indicates that the MCS group is disabled in on-network procedures. Absence of the <on-network-disabled> element in the <list-service> element of the MCS group document indicates that the MCS group is enabled in on-network procedures.

Value of the <on-network-group-priority> element of the <list-service> element of the MCPTT group document indicates the priority level of the group in on-network MCPTT procedures. Higher value indicates higher priority. Absence of the <on-network-group-priority> element of the <list-service> element of the MCPTT group document indicates the lowest possible priority.

Value of the <on-network-max-participant-count> element of the <list-service> element of the MCPTT group document indicates the maximum number of participants in the MCPTT group session in on-network MCPTT procedures.

Presence of the <on-network-temporary> element in the <list-service> element of the MCS group document indicates that the MCS group is a temporary MCS group. Each <constituent-MCPTT-group-ID> child elements of the <constituent-MCPTT-group-IDs> element of the <on-network-temporary> element indicates MCS group ID of a constituent MCS group of the temporary MCS group. Absence of the <on-network-temporary> element in the <list-service> element of the MCS group document indicates that the MCS group is not a temporary MCS group.

Presence of a <on-network-regrouped> element in the <list-service> element of the MCS group document indicates that the MCS group is a constituent MCS group of a temporary MCS group with MCS Group ID indicated in the value of the "temporary-MCPTT-group-ID" attribute of the <on-network-regrouped> element. The data semantic of:

a) the <on-network-group-priority> child element;

b) the <protect-media> child element;

c) the <protect floor-control-signalling> child element; and

d) the <require-multicast-floor-control-signalling> child element;

of the <on-network-regrouped> element is the same as semantic of the corresponding elements in the <list-service> element of the MCS group document of the temporary MCS group. Each <constituent-MCPTT-group-ID> child elements of the <constituent-MCPTT-group-IDs> element of the <on-network-regrouped> element indicates MCS group ID of a constituent MCS group of the temporary MCS group. Absence of the <on-network-regrouped> element in the <list-service> element of the MCS group document indicates that the MCS group is not a constituent MCS group of a temporary MCS group.

Value of the <off-network-ProSe-layer-2-group-id> element of the <list-service> element of the MCS group document indicates the ProSe layer-2 group ID specified in 3GPP TS 24.334 [7] assigned to the MCS group for usage in the off-network procedures specified in 3GPP TS 24.379 [5]. Absence of the <off-network-ProSe-layer-2-group-id> element of the <list-service> element of the MCS group document indicates that the MCS group is not to be used in off-network procedures specified in 3GPP TS 24.379 [5].

Value of the <off-network-PDN-type> element of the <list-service> element of the MCS group document indicates the IP version to be used in off-network procedures specified in 3GPP TS 24.379 [5] assigned to the MCS group for usage in the off-network procedures specified in 3GPP TS 24.379 [5]. Absence of the <off-network-PDN-type> element of the <list-service> element of the MCS group document indicates that the MCS group is not to be used in off-network procedures specified in 3GPP TS 24.379 [5]. A value of the <off-network-PDN-type> element of the <list-service> element of the MCS group document other than any of the values specified in table 7.2.2-1 indicates that the MCS group is not to be used in off-network procedures specified in 3GPP TS 24.379 [5].

Value of the <off-network-IP-multicast-address> element of the <list-service> element of the MCS group document indicates the IP multicast address assigned to the MCS group for usage in the off-network procedures specified in 3GPP TS 24.379 [5]. The IP multicast address is of the IP version to be used in off-network procedures for the MCS group. Incorrect format of the <off-network-IP-multicast-address> element of the <list-service> element of the MCS group document indicates that the MCS group is not to be used in off-network procedures specified in 3GPP TS 24.379 [5]. Absence of the <off-network-IP-multicast-address> element of the <list-service> element of the MCS group document indicates that the MCS group is not to be used in off-network procedures specified in 3GPP TS 24.379 [5].

Value of the <off-network-ProSe-signalling-PPPP> element of the <list-service> element of the MCPTT group document indicates the ProSe Per-Packet Priority value to be used when transmitting IP packets carrying signalling for a call on the MCPTT group in off-network MCPTT procedures specified in 3GPP TS 24.379 [5]. Absence of the <off-network-ProSe-signalling-PPPP> element of the <list-service> element of the MCPTT group document indicates that a call cannot be established on the MCPTT group in off-network MCPTT procedures specified in 3GPP TS 24.379 [5].

Value of the <off-network-ProSe-emergency-call-signalling-PPPP> element of the <list-service> element of the MCPTT group document indicates the ProSe Per-Packet Priority value to be used when transmitting IP packets carrying signalling for an MCPTT-emergency call on the MCPTT group in off-network MCPTT procedures specified in 3GPP TS 24.379 [5]. Absence of the <off-network-ProSe-emergency-call-signalling-PPPP> element of the <list-service> element of the MCPTT group document indicates that an MCPTT-emergency call cannot be established on the MCPTT group in off-network MCPTT procedures specified in 3GPP TS 24.379 [5].

Value of the <off-network-ProSe-imminent-peril-call-signalling-PPPP> element of the <list-service> element of the MCPTT group document indicates the ProSe Per-Packet Priority value to be used when transmitting IP packets carrying signalling for an imminent peril call on the MCPTT group in off-network MCPTT procedures specified in 3GPP TS 24.379 [5]. Absence of the <off-network-ProSe-imminent-peril-call-signalling-PPPP> element of the <list-service> element of the MCPTT group document indicates that an imminent peril call cannot be established on the MCPTT group in off-network MCPTT procedures specified in 3GPP TS 24.379 [5].

Value of the <off-network-ProSe-media-PPPP> element of the <list-service> element of the MCPTT group document indicates the ProSe Per-Packet Priority value to be used when transmitting IP packets carrying media for a call on the MCPTT group in off-network MCPTT procedures specified in 3GPP TS 24.379 [5]. Absence of the <off-network-ProSe-media-PPPP> element of the <list-service> element of the MCPTT group document indicates that a call cannot be established on the MCPTT group in off-network MCPTT procedures specified in 3GPP TS 24.379 [5].

Value of the <off-network-ProSe-emergency-call-media-PPPP> element of the <list-service> element of the MCPTT group document indicates the ProSe Per-Packet Priority value to be used when transmitting IP packets carrying media for an MCPTT-emergency call on the MCPTT group in off-network MCPTT procedures specified in 3GPP TS 24.379 [5]. Absence of the <off-network-ProSe-emergency-call-media-PPPP> element of the <list-service> element of the MCPTT group document indicates that an MCPTT-emergency call cannot be established on the MCPTT group in off-network MCPTT procedures specified in 3GPP TS 24.379 [5].

Value of the <off-network-ProSe-imminent-peril-call-media-PPPP> element of the <list-service> element of the MCPTT group document indicates the ProSe Per-Packet Priority value to be used when transmitting IP packets carrying media for an imminent peril call on the MCPTT group in off-network MCPTT procedures specified in 3GPP TS 24.379 [5]. Absence of the <off-network-ProSe-imminent-peril-call-media-PPPP> element of the <list-service> element of the MCPTT group document indicates that an imminent peril call cannot be established on the MCPTT group in off-network MCPTT procedures specified in 3GPP TS 24.379 [5].

Value of the <mcvideo-off-network-ProSe-signalling-PPPP> element of the <list-service> element of the MCVideo group document indicates the ProSe Per-Packet Priority value to be used when transmitting IP packets carrying signalling for a call on the MCVideo group in off-network MCVideo procedures specified in 3GPP TS 24.281 [26]. Absence of the <mcvideo-off-network-ProSe-signalling-PPPP> element of the <list-service> element of the MCVideo group document indicates that a call cannot be established on the MCVideo group in off-network MCVideo procedures specified in 3GPP TS 24.281 [26].

Value of the <mcvideo-off-network-ProSe-emergency-call-signalling-PPPP> element of the <list-service> element of the MCVideo group document indicates the ProSe Per-Packet Priority value to be used when transmitting IP packets carrying signalling for an MCVideo-emergency call on the MCVideo group in off-network MCVideo procedures specified in 3GPP TS 24.281 [26]. Absence of the <mcvideo-off-network-ProSe-emergency-call-signalling-PPPP> element of the <list-service> element of the MCVideo group document indicates that an MCVideo-emergency call cannot be established on the MCVideo group in off-network MCVideo procedures specified in 3GPP TS 24.281 [26].

Value of the <mcvideo-off-network-ProSe-imminent-peril-call-signalling-PPPP> element of the <list-service> element of the MCVideo group document indicates the ProSe Per-Packet Priority value to be used when transmitting IP packets carrying signalling for an imminent peril call on the MCVideo group in off-network MCVideo procedures specified in 3GPP TS 24.281 [26]. Absence of the <mcvideo-off-network-ProSe-imminent-peril-call-signalling-PPPP> element of the <list-service> element of the MCVideo group document indicates that an imminent peril call cannot be established on the MCVideo group in off-network MCVideo procedures specified in 3GPP TS 24.281 [26].

Value of the <mcvideo-off-network-ProSe-media-PPPP> element of the <list-service> element of the MCVideo group document indicates the ProSe Per-Packet Priority value to be used when transmitting IP packets carrying media for a call on the MCVideo group in off-network MCVideo procedures specified in 3GPP TS 24.281 [26]. Absence of the <mcvideo-off-network-ProSe-media-PPPP> element of the <list-service> element of the MCVideo group document indicates that a call cannot be established on the MCVideo group in off-network MCVideo procedures specified in 3GPP TS 24.281 [26].

Value of the <mcvideo-off-network-ProSe-emergency-call-media-PPPP> element of the <list-service> element of the MCVideo group document indicates the ProSe Per-Packet Priority value to be used when transmitting IP packets carrying media for an MCVideo-emergency call on the MCVideo group in off-network MCVideo procedures specified in 3GPP TS 24.281 [26]. Absence of the <mcvideo-off-network-ProSe-emergency-call-media-PPPP> element of the <list-service> element of the MCVideo group document indicates that an MCVideo-emergency call cannot be established on the MCVideo group in off-network MCVideo procedures specified in 3GPP TS 24.281 [26].

Value of the <mcvideo-off-network-ProSe-imminent-peril-call-media-PPPP> element of the <list-service> element of the MCVideo group document indicates the ProSe Per-Packet Priority value to be used when transmitting IP packets carrying media for an imminent peril call on the MCVideo group in off-network MCVideo procedures specified in 3GPP TS 24.281 [26]. Absence of the <mcvideo-off-network-ProSe-imminent-peril-call-media-PPPP> element of the <list-service> element of the MCVideo group document indicates that an imminent peril call cannot be established on the MCVideo group in off-network MCVideo procedures specified in 3GPP TS 24.281 [26].

Value of the <mcdata-off-network-ProSe-signalling-PPPP> element of the <list-service> element of the MCData group document indicates the ProSe Per-Packet Priority value to be used when transmitting IP packets carrying signalling for a call on the MCData group in off-network MCData procedures specified in 3GPP TS 24.282 [27]. Absence of the <mcdata-off-network-ProSe-signalling-PPPP> element of the <list-service> element of the MCData group document indicates that a call cannot be established on the MCData group in off-network MCData procedures specified in 3GPP TS 24.282 [27].

Value of the <mcdata-off-network-ProSe-media-PPPP> element of the <list-service> element of the MCData group document indicates the ProSe Per-Packet Priority value to be used when transmitting IP packets carrying media for a call on the MCData group in off-network MCData procedures specified in 3GPP TS 24.282 [27]. Absence of the <mcdata-off-network-ProSe-media-PPPP> element of the <list-service> element of the MCData group document indicates that a call cannot be established on the MCData group in off-network MCData procedures specified in 3GPP TS 24.282 [27].

Value of the <off-network-ProSe-relay-service-code> element of the <list-service> element of the MCS group document indicates of a ProSe relay service code specified in 3GPP TS 24.334 [7] to be used by a UE when the UE accessing a UE-to-network relay in procedures specified in 3GPP TS 24.379 [5]. Absence of the <off-network-ProSe-relay-service-code> element of the <list-service> element of the MCS group document indicates that the MCS group is not to be accessed using any procedures specified in 3GPP TS 24.379 [5] which requires support of a ProSe UE-to-network relay.

Value of the <owner> element of the <list-service> element of the MCS group document indicates the group's owner (mission critical organisation) specified in 3GPP TS 23.179 [4].

Value of the "name" attribute of the <encoding> element of the <preferred-voice-encodings> element of the <list-service> element of the MCPTT group document indicates the preferred RTP payload format to be used for voice encoding in MCPTT group sessions of the MCPTT group.

Value of the <level-within-group-hierarchy> element of the <list-service> element of the MCS group document indicates the level within group hierarchy specified in 3GPP TS 23.179 [4].

Value of the <level-within-user-hierarchy> element of the <list-service> element of the MCS group document indicates the level within user hierarchy specified in 3GPP TS 23.179 [4].

The <preconfigured-group-use-only> element of the <list-service> element of the MCS group document indicates whether or not a MCS group is to be used only as a preconfigured group to provide configuration information for regroups based on a preconfigured group. The possible values of the element are:

a) "true" which indicates that the group is to be used only to provide configuration information for regroups based on a preconfigured group; and

b) "false" which indicates that the group can be used as a normal MCS group as well as to provide configuration information for regroups based on a preconfigured group. This is the default value taken in the absence of the element.

Value of the <on-network-in-progress-emergency-state-cancellation-timeout> element of the <list-service> element of the MCPTT group document indicates the timeout value for the cancellation of an in progress emergency in on-network MCPTT procedures.

Value of the <on-network-in-progress-imminent-peril-state-cancellation-timeout> element of the <list-service> element of the MCPTT group document indicates the timeout value for the cancellation of an in progress imminent-peril group call in on-network MCPTT procedures.

Value of the <off-network-in-progress-emergency-state-cancellation-timeout> element of the <list-service> element of the MCPTT group document indicates the timeout value for the cancellation of an in progress emergency in off-network MCPTT procedures.

Value of the <off-network-in-progress-imminent-peril-state-cancellation-timeout> element of the <list-service> element of the MCPTT group document indicates the timeout value for the cancellation of an in progress imminent-peril group call in off-network MCPTT procedures.

Value of the <on-network-hang-timer> element of the <list-service> element of the MCPTT group document indicates the group call hang timer specified in 3GPP TS 23.179 [4] in on-network MCPTT procedures.

Value of the <on-network-maximum-duration> element of the <list-service> element of the MCPTT group document indicates the maximum duration of group calls specified in 3GPP TS 23.179 [4] in on-network MCPTT procedures.

Value of the <off-network-hang-timer> element of the <list-service> element of the MCPTT group document indicates the group call hang timer specified in 3GPP TS 23.179 [4] in off-network MCPTT procedures.

Value of the <off-network-maximum-duration> element of the <list-service> element of the MCPTT group document indicates the maximum duration of group calls specified in 3GPP TS 23.179 [4] in off-network MCPTT procedures.

Value of the <mcvideo-off-network-in-progress-emergency-state-cancellation-timeout> element of the <list-service> element of the MCVideo group document indicates the timeout value for the cancellation of an in progress emergency in off-network MCVideo procedures.

Value of the <mcvideo-off-network-in-progress-imminent-peril-state-cancellation-timeout> element of the <list-service> element of the MCVideo group document indicates the timeout value for the cancellation of an in progress imminent-peril group call in off-network MCVideo procedures.

Value of the <mcvideo-off-network-maximum-duration> element of the <list-service> element of the MCVideo group document indicates the maximum duration of group calls specified in 3GPP TS 23.281 [24] in off-network MCVideo procedures.

Value of the <on-network-minimum-number-to-start> element of the <list-service> element of the MCPTT group document indicates the minimum number of affiliated group members acknowledging before start of audio transmission specified in 3GPP TS 23.179 [4] in on-network MCPTT procedures.

Value of the <on-network-timeout-for-acknowledgement-of-required-members> element of the <list-service> element of the MCPTT group document indicates the timeout for acknowledgement of required group members specified in 3GPP TS 23.179 [4] in on-network MCPTT procedures.

Value of the <on-network-action-upon-expiration-of-timeout-for-acknowledgement-of-required-members> element of the <list-service> element of the MCPTT group document indicates the action upon failure to receive acknowledgement from required group members before call timeout specified in 3GPP TS 23.179 [4] in on-network MCPTT procedures.

Value of the <on-network-minimum-number-of-affiliated-members> element of the <list-service> element of the MCPTT group document indicates the minimum required number of affiliated group members specified in 3GPP TS 23.379 [30] in on-network pre-arranged group call procedures.

The possible values of the <protect-media> element are:

a) "true" which indicates that a GMK is required to confidentiality and integrity protect media for on-network and off-network MCPTT calls on the MCPTT group. This value is used when the element is not present; and

b) "false" which indicates that both confidentiality protection and integrity protection of media are not required for on-network and off-network MCPTT calls on the MCPTT group.

The possible values of the <protect-floor-control-signalling> element are:

a) "true" which indicates that both confidentiality protection and integrity protection of floor control signalling are required for on-network and off-network MCPTT calls on the MCPTT group. This value is used when the element is not present; and

b) "false" which indicates that both confidentiality protection and integrity protection of floor control signalling are not required for on-network and off-network MCPTT calls on the MCPTT group.

If the <protect-floor-control-signalling> element is set to "true" or when not present, then for on-network MCPTT group calls:

a) the presence of the <require-multicast-floor-control-signalling> element in the <list-service> element of the MCPTT group indicates that multicast bearers are used for floor controlling signalling for this group requiring that an MuSiK or MKFC is used to protect multicast floor control signalling;

b) the absence of the <require-multicast-floor-control-signalling> element in the <list-service> element of the MCPTT group indicates that multicast bearers are not used for floor control signalling for this group requiring that no MuSiK and no MKFC needs to be used to protect floor control signalling

NOTE 4: For on-network MCPTT group calls, in the case that the <protect-floor-control-signalling> is "true" or not present, and the <require-multicast-floor-control-signalling> is not present, then floor control protection is provided by the CSK, which is generated by the client.

NOTE 5: For off-network MCPTT group calls, a GMK is always used to protect floor control signalling.

The possible values of the <mcvideo-on-network-invite-members> element in the <list-service> element of the MCVideo group document indicates are:

a) "true" which represents the pre-arranged group in on-network MCVideo procedures; and

b) "false" which represents the chat group in on-network MCVideo procedures. This value is used when the element is not present.

NOTE 6: Presence or absence of the <invite-members> element specified in OMA OMA-TS-XDM\_Group-V1\_1\_1 [3] does not impact MCS procedures.

Value of the <mcvideo-on-network-maximum-duration> element of the <list-service> element of the MCVideo group document indicates the maximum duration of group calls specified in 3GPP TS 23.281 [24] in on-network MCVideo procedures.

The possible values of the <mcvideo-protect-media> element are:

a) "true" which indicates that a GMK is required to confidentiality and integrity protect media for on-network and off-network MCVideo transmissions on the MCVideo group. This value is used when the element is not present; and

b) "false" which indicates that both confidentiality protection and integrity protection of media are not required for on-network and off-network MCVideo transmissions on the MCVideo group.

The possible values of the <mcvideo-protect-transmission-control> element are:

a) "true" which indicates that confidentiality and integrity protection for on-network and off-network MCVideo transmission control signalling on the MCVideo group is enabled. This value is used when the element is not present; and

b) "false" which indicates that confidentiality and integrity protection for on-network and off-network MCVideo transmission control signalling on the MCVideo group is disabled.

Value of the "name" attribute of the <encoding> element of the <mcvideo-preferred-audio-encodings> element of the <list-service> element of the MCVideo group document indicates the preferred RTP payload format to be used for audio encoding in MCVideo group sessions of the MCVideo group.

Value of the "name" attribute of the <encoding> element of the <mcvideo-preferred-video-encodings> element of the <list-service> element of the MCVideo group document indicates the preferred RTP payload format to be used for video encoding in MCVideo group sessions of the MCVideo group.

Value of the <mcvideo-preferred-video-resolutions> element of the <list-service> element of the MCVideo group document indicates in order of preference, the allowed set of video resolutions (number of horizontal pixels x number of vertical pixels) to be used in MCVideo group sessions of the MCVideo group.

Value of the <mcvideo-preferred-video-frame-rate> element of the <list-service> element of the MCVideo group document indicates in order of preference, the allowed set of video frame rates (in frames per second) to be used in MCVideo group sessions of the MCVideo group.

The possible values of the <mcvideo-urgent-real-time-video-mode> element are:

a) "true" which indicates that urgent real-time video mode is allowed for the MCVideo group.

b) "false" which indicates that urgent real-time video mode is not allowed for the MCVideo group. This value is used when the element is not present;

The possible values of the <mcvideo-non-urgent-real-time-video-mode> element are:

a) "true" which indicates that non urgent real-time video mode is allowed for the MCVideo group.

b) "false" which indicates that non urgent real-time video mode is not allowed for the MCVideo group. This value is used when the element is not present;

The possible values of the <mcvideo-non-real-time-video-mode> element are:

a) "true" which indicates that non real-time video mode is allowed for the MCVideo group.

b) "false" which indicates that non real-time video mode is not allowed for the MCVideo group. This value is used when the element is not present;

The possible values of the <mcvideo-active-real-time-video-mode> element are:

a) "urgent-real-time";

b) "non-urgent-real-time"; and

c) "non-real-time".

Value of the <mcvideo-maximum-simultaneous-mcvideo-transmitting-group-members> element of the <list-service> element of the MCVideo group document indicates the allowed maximum number of simultaneous transmitting MCVideo Group Members.

Value of the <mcvideo-on-network-minimum-number-to-start> element of the <list-service> element of the MCVideo group document indicates the minimum number of affiliated group members acknowledging before start of video transmission specified in 3GPP TS 23.281 [24] in on-network MCVideo procedures.

Value of the <mcvideo-on-network-group-priority> element of the <list-service> element of the MCVideo group document indicates the priority level of the group in on-network MCVideo procedures. Higher value indicates higher priority. Absence of the <mcvideo-on-network-group-priority> element of the <list-service> element of the MCVideo group document indicates the lowest possible priority.

The possible values of the <mcvideo-off-network-arbitration-approach> element are:

a) "single" which indicates transmission participants rely on a single participant designated as transmission arbitrator for the arbitraton of transmission requests; and

b) "self" which indicates each transmsission participant arbitrates its own transmission based on its view of the topology;

Value of the <mcvideo-off-network-maximum-simultaneous-transmission> element of the <list-service> element of the MCVideo group document indicates the allowed maximum number of simultaneous transmissions for off-network MCVideo procedures.

The possible values of the <mcdata-protect-media> element are:

a) "true" which indicates that a GDK is required to confidentiality and integrity protect media for on-network and off-network MCData transmissions on the MCData group. This value is used when the element is not present; and

b) "false" which indicates that both confidentiality protection and integrity protection of media are not required for on-network and off-network MCData transmissions on the MCData group.

The possible values of the <mcdata-protect-transmission-control> element are:

a) "true" which indicates that confidentiality and integrity protection for on-network and off-network MCData transmission control signalling on the MCData group is enabled. This value is used when the element is not present; and

b) "false" which indicates that confidentiality and integrity protection for on-network and off-network MCData transmission control signalling on the MCData group is disabled.

The possible values of <mcdata-allow-short-data-service> element are:

a) "true" which indicates that short data service is enabled for the MCData group. This value is used when the element is not present; and

b) "false" which indicates that short data service is disabled for the MCData group.

The possible values of <mcdata-allow-file-distribution> element are:

a) "true" which indicates that file distribution is enabled for the MCData group. This value is used when the element is not present; and

b) "false" which indicates that file distribution is disabled for the MCData group.

The possible values of <mcdata-allow-conversation-management> element are:

a) "true" which indicates that conversation management is enabled for the MCData group. This value is used when the element is not present; and

b) "false" which indicates that conversation management is disabled for the MCData group.

The possible values of <mcdata-allow-tx-control> element are:

a) "true" which indicates that transmission control is enabled for the MCData group. This value is used when the element is not present; and

b) "false" which indicates that transmission control is disabled for the MCData group.

The possible values of <mcdata-allow-rx-control> element are:

a) "true" which indicates that reception control is enabled for the MCData group. This value is used when the element is not present; and

b) "false" which indicates that reception control is disabled for the MCData group.

The possible values of <mcdata-allow-enhanced-status> element are:

a) "true" which indicates that enhanced status is enabled for the MCData group. This value is used when the element is not present; and

b) "false" which indicates that enhanced status is disabled for the MCData group.

Value of the <mcdata-enhanced-status-operational-values> element has a list of operational values used for the enhanced status service and two text strings used to display a meaningful message to the user. Containing list of <status> elements with minimum occurrence of 0 and maximum occurrence of 65536 with a mandatory "id" attribute that shall be set to a unique integer in the range of 0 to 65536. The value of the status elements denote the operational values used for the enhanced status service. For each status element there shall be a <shortText> element and a <description> element that can be displayed locally to the user when selecting the status value for the group, the element is not sent in the SDS message. The <shortText> element is a shorter version of the <description> element that can be used with devices with limited display capability. The <shortText> and <description> elements support multiple languages by allowing the elements to have multiple text strings, <langText> element to store the text and with a leading <langType> element to indicate the language of the text string.

Value of the <mcdata-on-network-group-priority> element of the <list-service> element of the MCData group document indicates the priority level of the group in on-network MCData procedures. Higher value indicates higher priority. Absence of the <mcdata-on-network-group-priority> element of the <list-service> element of the MCData group document indicates the lowest possible priority.

Value of the <mcdata-on-network-max-data-size-for-SDS> element indicates the maximum size of data (in bytes) that the originating MCData client is allowed to send to the MCData server for on-network SDS communications.

Value of the <mcdata-on-network-max-data-size-for-FD> element indicates the maximum size of data (in bytes) that the originating MCData client is allowed to send to the MCData server for on-network FD communications.

Value of the <mcdata-on-network-max-data-size-auto-recv> element indicates the maximum size of data (in bytes) which the MCData server always requests the terminating MCData client to automatically download for on-network FD communications using HTTP.

The "uri" attribute of a <entry> element of the MCS group document:

a) contains the MCPTT user identity, if the MCS group is not a temporary MCS group and the MCS group is an MCPTT group;

b) contains the MCVideo user identity, if the MCS group is not a temporary MCS group, the MCS group is not an MCPTT group and the MCS group is an MCVideo group;

c) contains the MCData user identity, if the MCS group is not a temporary MCS group, the MCS group is not an MCPTT group, the MCS group is not an MCVideo group and the MCS group is an MCData group; and

d) contains the MCS group identity of a constituent MCS group, if the MCS group is a temporary MCS group.

Presence of the <on-network-required> element in the <entry> element of the MCPTT group document indicates that the MCPTT group member identified by the <entry> element is a required MCPTT group member in on-network MCPTT procedures. Absence of the <on-network-required> element in the <entry> element of the MCPTT group document indicates that the MCPTT group member identified by the <entry> element is not a required MCPTT group member in on-network MCPTT procedures.

Presence of the <on-network-affiliation-to-group-required> element in an <entry> element of the MCPTT group document indicates that affiliation of the MCPTT group member identified by the <entry> element is required in on-network pre-arranged group call procedures. Absence of the <on-network-affiliation-to-group-required> element in the <entry> element of the MCPTT group document indicates that the affiliation of the MCPTT group member identified by the <entry> element is not required in on-network pre-arranged group call procedures.

Value of the <user-priority> element in the <entry> element of the MCS group document indicates the user priority of the MCS group member identified by the <entry> element. Higher value indicates higher priority. Absence of the <user-priority> element in the <entry> element of the MCS group document indicates that the MCS group member identified by the <entry> element has the lowest possible priority.

Value of the <user-reception-priority> element in the <entry> element of the MCS group document indicates the user reception priority of the MCS group member identified by the <entry> element. Higher value indicates higher reception priority. Absence of the <user-reception-priority> element in the <entry> element of the MCS group document indicates that the MCS group member identified by the <entry> element has the lowest possible reception priority.

Value of the <participant-type> element in the <entry> element of the MCS group document indicates the participant type specified in 3GPP TS 23.179 [4] assigned to the MCS group member identified by the <entry> element. Absence of the <participant-type> element in the <entry> element of the MCS group document indicates that the MCS group member identified by the <entry> element is not assigned any participant type.

Presence of the <on-network-recvonly> element in the <entry> element of the MCPTT group document indicates that the MCPTT group member identified by the <entry> element is not allowed to send media in MCPTT group calls of the MCPTT group in on-network MCPTT procedures. Absence of the <on-network-recvonly> element in the <entry> element of the MCPTT group document indicates that the MCPTT group member identified by the <entry> element is allowed to send media in MCPTT group calls of the MCPTT group in on-network MCPTT procedures.

Presence of the <multi-talker-allowed> element in the <entry> element of the MCPTT group document indicates that the MCPTT group member identified by the <entry> element is authorized for multi-talker floor control in a MCPTT group call of the MCPTT group in on-network MCPTT procedures when the MCPTT group supports multi-talker-control. Absence of the <multi-talker-allowed> element in the <entry> element of the MCPTT group document indicates that the MCPTT group member identified by the <entry> element is not authorized for multi-talker floor control in a MCPTT group call of the MCPTT group in on-network MCPTT procedures.

Presence of the <mcvideo-on-network-required> element in the <entry> element of the MCVideo group document indicates that the MCVideo group member identified by the <entry> element is a required MCVideo group member in on-network MCVideo procedures. Absence of the <on-network-required> element in the <entry> element of the MCVideo group document indicates that the MCVideo group member identified by the <entry> element is not a required MCPTT group member in on-network MCVideo procedures.

Value of the "uri" attribute of the <mcvideo-mcvideo-id> element in the <entry> element of the MCVideo group document indicates the MCVideo user identity.

Value of the <mcdata-max-data-in-single-request> element in the <entry> element of the MCData group document indicates the maximum size of data (in bytes) that the MCData group member identified by the <entry> element can send in a single request during group communications.

Value of the <mcdata-max-time-in-single-request> element in the <entry> element of the MCData group document indicates the maximum time that the MCData group member identified by the <entry> element can transmit for in a single request during group communications.

Value of the "uri" attribute of the <mcdata-mcdata-id> element in the <entry> element of the MCData group document indicates the MCData user identity.

The <allow-MCPTT-emergency-call> element of an <actions> element of a <rule> element of the MCPTT group document indicates whether the identity matching the rule identified by the <rule> element is allowed to request an MCPTT-emergency call on the MCPTT group. The possible values of the element are:

a) "false" which indicates that the identity is not allowed to request an MCPTT-emergency call on the MCPTT group. This is the default value taken in the absence of the element.

b) "true" which indicates that the identity is allowed to request an MCPTT-emergency call on the MCPTT group.

The <allow-imminent-peril-call> element of an <actions> element of a <rule> element of the MCPTT group document indicates whether the identity matching the rule identified by the <rule> element is allowed to request an imminent peril call on the MCPTT group. The possible values of the element are:

a) "false" which indicates that the identity is not allowed to request an MCPTT-imminent peril call on the MCPTT group. This is the default value taken in the absence of the element.

b) "true" which indicates that the identity is allowed to request an MCPTT imminent peril call on the MCPTT group.

The <allow-MCPTT-emergency-alert> element of an <actions> element of a <rule> element of the MCPTT group document indicates whether the identity matching the rule identified by the <rule> element is allowed to request an MCPTT-emergency alert on the MCPTT group. The possible values of the element are:

a) "false" which indicates that the identity is not allowed to request an MCPTT-emergency alert on the MCPTT group. This is the default value taken in the absence of the element.

b) "true" which indicates that the identity is allowed to request an MCPTT-emergency alert on the MCPTT group.

The <on-network-allow-getting-member-list> element of an <actions> element of a <rule> element of the MCS group document indicates whether the identity matching the rule identified by the <rule> element is allowed to get the MCS group member list of the MCS group in on-network procedures. The possible values of the element are:

a) "false" which indicates that the identity is not allowed to get the MCS group member list of the MCS group in on-network procedures. This is the default value taken in the absence of the element.

b) "true" which indicates that the identity is allowed to get the MCS group member list of the MCS group in on-network procedures.

The <on-network-allow-getting-affiliation-list> element of an <actions> element of a <rule> element of the MCPTT group document indicates whether the identity matching the rule identified by the <rule> element is allowed to get the list of MCPTT users affiliated to the MCPTT group in on-network MCPTT procedures. The possible values of the element are:

a) "false" which indicates that the identity is not allowed to get the list of MCPTT users affiliated to the MCPTT group in on-network MCPTT procedures. This is the default value taken in the absence of the element.

b) "true" which indicates that the identity is allowed to get the list of MCPTT users affiliated to the MCPTT group in on-network MCPTT procedures.

The <on-network-allow-conference-state> element of an <actions> element of a <rule> element of the MCPTT group document indicates whether the identity matching the rule identified by the <rule> element is allowed to subscribe to the conference event package of an MCPTT group session of the MCPTT group in on-network MCPTT procedures. The possible values of the element are:

a) "false" which indicates that the identity is not allowed to subscribe to the conference event package of an MCPTT group session of the MCPTT group in on-network MCPTT procedures. This is the default value taken in the absence of the element.

b) "true" which indicates that the identity is allowed to subscribe to the conference event package of an MCPTT group session of the MCPTT group in on-network MCPTT procedures.

The <mcvideo-allow-emergency-call> element of an <actions> element of a <rule> element of the MCVideo group document indicates whether the identity matching the rule identified by the <rule> element is allowed to request an MCVideo-emergency call on the MCVideo group. The possible values of the element are:

a) "false" which indicates that the identity is not allowed to request an MCVideo-emergency call on the MCVideo group. This is the default value taken in the absence of the element.

b) "true" which indicates that the identity is allowed to request an MCVideo-emergency call on the MCVideo group.

The <mcvideo-allow-imminent-peril-call> element of an <actions> element of a <rule> element of the MCVideo group document indicates whether the identity matching the rule identified by the <rule> element is allowed to request an imminent peril call on the MCVideo group. The possible values of the element are:

a) "false" which indicates that the identity is not allowed to request an MCVideo-imminent peril call on the MCVideo group. This is the default value taken in the absence of the element.

b) "true" which indicates that the identity is allowed to request an MCVideo imminent peril call on the MCVideo group.

The <mcvideo-allow-emergency-alert> element of an <actions> element of a <rule> element of the MCVideo group document indicates whether the identity matching the rule identified by the <rule> element is allowed to request an MCVideo-emergency alert on the MCVideo group. The possible values of the element are:

a) "false" which indicates that the identity is not allowed to request an MCVideo-emergency alert on the MCVideo group. This is the default value taken in the absence of the element.

b) "true" which indicates that the identity is allowed to request an MCVideo-emergency alert on the MCVideo group.

The <mcvideo-on-network-allow-conference-state> element of an <actions> element of a <rule> element of the MCVideo group document indicates whether the identity matching the rule identified by the <rule> element is allowed to subscribe to the conference event package of an MCVideo group session of the MCVideo group in on-network MCVideo procedures. The possible values of the element are:

a) "false" which indicates that the identity is not allowed to subscribe to the conference event package of an MCVideo group session of the MCVideo group in on-network MCVideo procedures. This is the default value taken in the absence of the element.

b) "true" which indicates that the identity is allowed to subscribe to the conference event package of an MCVideo group session of the MCVideo group in on-network MCVideo procedures.

The <mcvideo-on-network-allow-getting-affiliation-list> element of an <actions> element of a <rule> element of the MCVideo group document indicates whether the identity matching the rule identified by the <rule> element is allowed to get the list of MCVideo users affiliated to the MCVideo group in on-network MCVideo procedures. The possible values of the element are:

a) "false" which indicates that the identity is not allowed to get the list of MCVideo users affiliated to the MCVideo group in on-network MCVideo procedures. This is the default value taken in the absence of the element.

b) "true" which indicates that the identity is allowed to get the list of MCVideo users affiliated to the MCVideo group in on-network MCVideo procedures.

The <mcdata-allow-transmit-data-in-this-group> element of an <actions> element of a <rule> element of MCData group document indicates whether the whether the identity matching the rule identified by the <rule> element is allowed to transmit data in this group. The possible values of this element are:

a) "false" which indicates that the identity is not allowed to transmit data in this group. This is the default value taken in the absence of the element.

b) "true" which indicates that the identity is allowed to transmit data in this group.

The <mcdata-on-network-allow-getting-affiliation-list> element of an <actions> element of a <rule> element of the MCData group document indicates whether the identity matching the rule identified by the <rule> element is allowed to get the list of MCData users affiliated to the MCData group in on-network MCData procedures. The possible values of the element are:

a) "false" which indicates that the identity is not allowed to get the list of MCData users affiliated to the MCData group in on-network MCData procedures. This is the default value taken in the absence of the element.

b) "true" which indicates that the identity is allowed to get the list of MCData users affiliated to the MCData group in on-network MCData procedures.

The <mcdata-allow-emergency-alert> element of an <actions> element of a <rule> element of the MCData group document indicates whether the identity matching the rule identified by the <rule> element is allowed to request an MCData-emergency alert on the MCData group. The possible values of the element are:

a) "false" which indicates that the identity is not allowed to request an MCData-emergency alert on the MCData group. This is the default value taken in the absence of the element; and

b) "true" which indicates that the identity is allowed to request an MCData-emergency alert on the MCData group.

The possible values of the <off-network-queue-usage> element are:

a) "true" which indicates that the queue shall be used in off-network MCPTT procedures. This is the default value taken in the absence of the element; and

b) "false" which indicates that the queue shall not be used in off-network MCPTT procedures.

The <mcptt-on-network-audio-cut-in> element indicates whether or not a group is configured for audio cut-in floor control. Audio cut-in floor control only applies in on-network MCPTT and has no effect in off-network MCPTT. The possible values of the element are:

a) "true" which indicates that audio cut-in is enabled for the group; and

b) "false" which indicates that audio cut-in is disabled for the group. This is the default value taken in the absence of the element.

The <multi-talker-control> element of the <list-service> element of the MCPTT group document indicates whether or not a MCPTT group is configured for support of multi-talker control. Multi-talker floor control only applies in on-network MCPTT and has no effect in off-network MCPTT. The possible values of the element are:

a) "true" which indicates that multi-talker control is enabled for the group; and

b) "false" which indicates that multi-talker control is disabled for the group. This is the default value taken in the absence of the element.

Value of the <max-number-simultaneous-talkers> element of the <list-service> element of the MCPTT group document indicates the maximum number of parallel talkers in a MCPTT group session in on-network MCPTT procedures. The default value in the absence of the element is "1".

Value of the <audio-mixing-entity> element of the <list-service> element of the MCPTT group document indicates where the audio streams are mixed in case of a MCPTT group supporting multi-talker control. Absence of the <audio-mixing-entity> element indicates that audio mixing is performed in the network.

<anyExt> element contains elements defined by future version of the present document.

End of changes