**3GPP TSG- Meeting #*****s3i240077***

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| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  |  | **CR** |  | **rev** |  | **Current version:** |  |  |
|  | | | | | | | | |
| *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:*** |  | | | | | | | | | |
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| ***Source to WG:*** |  | | | | | | | | | |
| ***Source to TSG:*** |  | | | | | | | | | |
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| ***Work item code:*** |  | | | | |  | ***Date:*** | | |  |
|  |  | | | |  | |  | | |  |
| ***Category:*** |  |  | | | | | ***Release:*** | | |  |
|  | *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 can be 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:*** | | The current RCS Session records break out the information for the SIP Sessions, but do not include information on any MSRP Sessions established. This contribution adds MSRP Session information to the records. This contribution also voids a clause describing a parameter that does not exist and corrects clause numbering. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Adds MSRP information to the existing RCS Session records. This contribution adds MSRP Session information to the records. This contribution also voids a clause describing a parameter that does not exist and corrects clause numbering. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | The MSRP information will be absent from the records making correlating conversations more difficult. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 7.13.3.4 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 is associated with the following changes in the Forge: Merge request: [!240](https://forge.3gpp.org/rep/sa3/li/-/merge_requests/240)  Commit hash: [bd6e815e1c7c38d8fc88ef298315abdfee75cb02](https://forge.3gpp.org/rep/sa3/li/-/merge_requests/240/diffs?commit_id=bd6e815e1c7c38d8fc88ef298315abdfee75cb02) | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | | s3i240016 | | | | | | | | |

## \*\*\*\* START OF FIRST CHANGE (MAIN DOCUMENT) \*\*\*\*

#### 7.13.3.4 RCS Session reporting

##### 7.13.3.4.1 General

The IRI-POI present in the RCS Server shall generate xIRIs to report the establishment, modification and release of RCS Sessions. There are multiple types of RCS Sessions that shall be reported:

- Standalone SIP Sessions:

- Large Message Mode CPM Standalone Messages (see clause 7.13.3.4.2).

- CPM Sessions which can be broken down into:

- 1-to-1 Chat sessions (see clause 7.13.3.4.3).

- Group Chat sessions.

When reporting sessions established to transfer a Large Message Mode RCS Standalone Message, the rCSSessionType parameter shall be set to "LargeMessageStandalone".

When reporting a CPM 1-to-1 Session, the rCSSessionType parameter shall be set to "1to1Chat".

##### 7.13.3.4.2 Session establishment attempt

###### 7.13.3.4.2.1 RCSSessionEstablishmentAttempt record

The IRI-POI in the RCS Server shall generate an RCSSessionEstablishmentAttempt record when the IRI-POI in the RCS Server detects any of the following:

- A SIP Session has been requested to transfer a Large Message Mode CPM Standalone message to or from a target (see clause 7.13.3.4.2.2).

- A CPM 1-to-1 Chat Session has been requested for the target's communications (see clause 7.13.3.4.2.3).

Table 7.13.3.4.2-1: Payload for RCSSessionEstablishmentAttempt record

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field name** | **Type** | **Cardinality** | **Description** | **M/C/O** |
| rCSTargetIdentities | SEQUENCE OF RCSIdentity | 1..MAX | RCS target identities. All identities associated to the target known at the POI shall be included. | M |
| conversationID | RCSConversationID | 1 | Set to the value of the Conversion-ID header in the SIP INVITE request. | M |
| contributionID | RCSContributionID | 1 | Set to the value of the Contribution-ID header in the SIP INVITE request. | M |
| inReplyToContributionID | RCSContributionID | 0..1 | InReplyTo-Contribution-ID identifying the Contribution-ID of the CPM Standalone Message, CPM File Transfer or CPM Session that is being replied to (see OMA-TS-CPM\_Conversation\_Function [109] clause 5.3). Shall be included if the InReplyTo-Contribution-ID header field is present for the message being reported. | C |
| sessionReplaces | RCSContributionID | 0..1 | The Contribution-ID present in the Session-Replaces header of the SIP INVITE identifying the Contribution-ID of the CPM 1-to-1 Chat Session that is being replaced to (see OMA-TS-CPM\_Conversation\_Function [109] clause 5.3). Shall be included if the Session-Replaces header field is present for the message being reported. | C |
| rCSSessionType | RCSSessionType | 1 | Indicates the type of RCS Session. | M |
| sessionDirection | Direction | 1 | Shall be provided to identify the direction of the session relative to the target: "toTarget" or "fromTarget". | M |
| rCSSIPSessionMessage | RCSSIPSessionMessage | 1 | Shall contain the SIP INVITE and the leg identificaiton. | M |
| location | Location | 0..1 | Shall include the target’s location when reporting of the target’s location information is authorized and available. | C |

###### 7.13.3.4.2.2 Large Message Mode CPM Standalone session

The IRI-POI in the RCS Server shall generate the RCSSessionEstablishmentAttempt xIRI when it detects the following events:

- The RCS Server receives a SIP INVITE sent to or from the target with a service feature tag among the feature tags listed in OMA-TS-CPM\_Conv\_Function [109] Table 7 indicating the Large Message Mode CPM Standalone Message or the Deferred CPM Message features for which a SIP session was not already established.

###### 7.13.3.4.2.3 CPM 1-to-1 Chat session establishment

The IRI-POI in the RCS Server shall generate the RCSSessionEstablishmentAttempt xIRI when it detects the following events:

- The RCS Server receives a SIP INVITE sent to or from the target with a service feature tag among the feature tags listed in OMA-TS-CPM\_Conv\_Function [109] Table 7 indicating the CPM Session feature for which there is not an existing CPM Session.

##### 7.13.3.4.3 Session modification

###### 7.13.3.4.3.1 RCSSessionModification record

The IRI-POI in the RCS Server shall generate an RCSSessionModification record when the IRI-POI in the RCS Server detects any of the following:

- A request is sent to request the next leg of a SIP Session or a response is received establishing a SIP Session for the transfer of a Large Message Mode CPM Standalone message or a CPM 1-to-1 Chat Session.

- A previously established SIP session for the transfer of a Large Message Mode CPM Standalone message to or from a target has been modified (see clause 7.13.3.4.3.2).

- A CPM 1-to-1 Chat Session established for the target's communications has been modified (see clause 7.13.3.4.3.3).

Table 7.13.3.4.3-1: Payload for RCSSessionModification record

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field name | Type | Cardinality | Description | M/C/O |
| rCSTargetIdentities | SEQUENCE OF RCSIdentity | 1..MAX | RCS target identities. All identities associated to the target known at the POI shall be included. | M |
| conversationID | RCSConversationID | 1 | Set to the value of the Conversion-ID header in the original SIP INVITE request. | M |
| contributionID | RCSContributionID | 1 | Set to the value of the Contribution-ID header in the original SIP INVITE request. | M |
| inReplyToContributionID | RCSContributionID | 0..1 | InReplyTo-Contribution-ID identifying the Contribution-ID of the CPM Standalone Message, CPM File Transfer or CPM Session that is being replied to (see OMA-TS-CPM\_Conversation\_Function [109] clause 5.3). Shall be included if the InReplyTo-Contribution-ID header field is present for the message being reported. | C |
| sessionReplaces | RCSContributionID | 0..1 | The Contribution-ID present in the Session-Replaces header of the SIP INVITE identifying the Contribution-ID of the CPM 1-to-1 Chat Session that is being replaced to (see OMA-TS-CPM\_Conversation\_Function [109] clause 5.3). Shall be included if the Session-Replaces header field is present for the message being reported. | C |
| rCSSessionType | RCSSessionType | 1 | Indicates the type of RCSSession. | M |
| sessionDirection | Direction | 1 | Shall be provided to identify the direction of the session relative to the target: "toTarget" or "fromTarget". | M |
| sessionEndpoints | RCSSessionEndpoints | 1 | Indicates whether the session continues through the server or is terminated at the server. | M |
| rCSSIPSessionMessage | RCSSIPSessionMessage | 1 | Shall contain the SIP message that triggered the xIRI, an indication of whether the the establishment or removal of a leg has been attempted or completed. | M |
| location | Location | 0..1 | Shall include the target’s location when reporting of the target’s location information is authorized and available. | C |

###### 7.13.3.4.3.2 CPM Standalone Message session modification

The IRI-POI in the RCS Server shall generate the RCSSessionModification xIRI when it detects the following events:

- The RCS Server sends a SIP INVITE to or from a target with a service feature tag among the feature tags listed in OMA-TS-CPM\_Conv\_Function [109] Table 7 indicating the Large Message Mode CPM Standalone Message or the Deferred CPM Message features.

- The RCS Server sends or receives SIP response within a SIP dialog where the original SIP INVITE had any service feature tag among the feature tags listed in OMA-TS-CPM\_Conv\_Function [109] Table 7 indicating the Large Message Mode CPM Standalone Message or the Deferred CPM Message features and at least one of the legs of the session known by the RCS Server remain.

###### 7.13.3.4.3.3 CPM 1-to-1 Chat session modification

The IRI-POI in the RCS Server shall generate the RCSSessionModification xIRI when it detects the following events:

- The RCS Server sends a SIP INVITE to or from a target with a service feature tag among the feature tags listed in OMA-TS-CPM\_Conv\_Function [109] Table 7 indicating the CPM Session feature.

- The RCS Server sends or receives SIP response or SIP BYE within a SIP dialog where the original SIP INVITE had any service feature tag among the feature tags listed in OMA-TS-CPM\_Conv\_Function [109] Table 7 indicating the CPM Session feature.

##### 7.13.3.4.4 Session release

###### 7.13.3.4.4.1 RCSSessionRelease record

The IRI-POI in the RCS Server shall generate an RCSSessionRelease record when the IRI-POI in the RCS Server detects any of the following:

- A SIP Session for the transfer of a Large Message Mode CPM Standalone message to or from a target has been released (see clause 7.13.3.4.4.2).

- A CPM 1-to-1 Chat Session established for the target's communications has been released (see clause 7.13.3.4.4.3).

Table 7.13.3.4.4-1: Payload for RCSSessionRelease record

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field name | Type | Cardinality | Description | M/C/O |
| rCSTargetIdentities | SEQUENCE OF RCSIdentity | 1..MAX | RCS target identities. All identities associated to the target known at the POI shall be included. | M |
| conversationID | RCSConversationID | 1 | Set to the value of the Conversion-ID header in the original SIP INVITE request. | M |
| contributionID | RCSContributionID | 1 | Set to the value of the Contribution-ID header in the original SIP INVITE request. | M |
| rCSSessionType | RCSSessionType | 1 | Indicates the type of RCSSession. | M |
| sessionDirection | Direction | 1 | Shall be provided to identify the direction of the session relative to the target: "toTarget" or "fromTarget". | M |
| sessionEndpoints | RCSSessionEndpoints | 1 | Indicates whether the session continued through the server or is terminated at the server. | M |
| rCSSIPSessionMessage | RCSSIPSessionMessage | 1 | Shall contain the SIP message that triggered the xIRI, an indication of whether the the establishment or removal of a leg has been attempted or completed. | M |
| location | Location | 0..1 | Shall include the target’s location when reporting of the target’s location information is authorized and available. | C |

###### 7.13.3.4.4.2 CPM Standalone Message session release

The IRI-POI in the RCS Server shall generate the RCSSessionRelease xIRI when it detects the following events:

- The RCS Server returns a SIP 200 OK in response to a SIP BYE sent to or from the target for a SIP session established to transfer a Large Message Mode CPM Standalone Message.

###### 7.13.3.4.4.3 CPM 1-to-1 Chat session release

The IRI-POI in the RCS Server shall generate the RCSSessionRelease xIRI when it detects the following events:

- The RCS Server returns a SIP 200 OK in response to a SIP BYE sent to or from the target for the last active leg of a SIP session established for a CPM Session.

##### 7.13.3.4.5 RCS session parameters

###### 7.13.3.4.5.1 Type: RCSSessionType

The RCSSessionType shall be set to indicate the type of RCS Session being reported.

Table 7.13.3.4.5.1-1: Enumeration for RCSSessionType parameter

|  |  |
| --- | --- |
| Enumeration | Description |
| largeMessageStandalone | Shall be selected if the session being reported is related to a Large Message Mode CPM Standalone Message. |
| oneTo1Chat | Shall be selected if the session being reported is a one-to-one chat session (see GSMA RCC.07 [78] clause 3.2.3). |

###### 7.13.3.4.5.2 Type: RCSSessionEndpoints

The RCSSessionEndpoints shall be set to indicate whether the RCS Session is currently established between the server and the remote endpoint, between the server and the local client or from the remote endpoint to the local client.

Table 7.13.3.4.5.2-1: Enumeration for RCSSessionEndpoints parameter

|  |  |
| --- | --- |
| Enumeration | Description |
| remoteOnly | Shall be selected if the session has been established only between the RCS Server and the remote endpoint. |
| localOnly | Shall be selected if the session has been established only between the RCS Server and the local client. |
| localAndRemote | Shall be selected if the session has been established between the local RCS Client and a remote endpoint. |

###### 7.13.3.4.5.3 Type: RCSSIPSessionMessage

Table 7.13.3.4.5.3-1: Payload for RCSSIPSessionMessage parameter

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field name | Type | Cardinality | Description | M/C/O |
| sessionLeg | RCSSessionLeg | 1 | Identifies the leg of the RCS session. | M |
| sIPMessage | IMSPayload | 1 | Contains the SIP Message. | M |
| rCSSessionResult | RCSSessionResult | 1 | Contains an indication of the resulting state of the RCS Session Leg. | M |
| mSRPPathInfo | MSRPPath | 0..1 | Shall be present if the SIP Message contains path information for an MSRP Session. | C |

###### 7.13.3.4.5.4 Type: RCSSessionLeg

The RCSSessionLeg shall be set to indicate whether the SIP Session Exchange is between the server and a remote endpoint or between the server and the local client.

Table 7.13.3.4.5.4-1: Enumeration for RCSSessionLeg parameter

|  |  |
| --- | --- |
| Enumeration | Description |
| remoteLeg | Shall be selected if the exchange took place between the server and a remote endpoint. |
| localLeg | Shall be selected if the exchange took place between the server and the local client. |

###### 7.13.3.4.5.5 Void



###### 7.13.3.4.5.6 Type: RCSSessionResult

The RCSSessionResult shall be set to indicate whether the addition, removal or modification of the leg has been requested or completed.

Table 7.13.3.4.5.6-1: Enumeration for RCSSessionResult parameter

|  |  |
| --- | --- |
| Enumeration | Description |
| newLegRequested | Shall be selected if the message that triggered the event was a SIP INVITE for a new SIP Session leg. |
| newLegEstablished | Shall be selected if the message that triggered the event was a 200 OK response to a SIP INVITE for a new SIP Session leg. |
| legModificationRequested | Shall be selected if the message that triggered the event was a SIP INVITE for an existing SIP Session leg. |
| legModificationComplete | Shall be selected if the message that triggered the event was a 200 OK response to a SIP INVITE for an existing SIP Session leg. |
| legRemovalRequest | Shall be selected if the message that triggered the event was a SIP BYE. |
| legRemovalComplete | Shall be selected if the message that triggered the event was a SIP 200 OK response to a SIP BYE or an error response to a SIP INVITE. |

###### 7.13.3.4.5.7 MSRPPath

Table 7.13.3.4.5.7-1: Payload for MSRPPath parameter

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field name | Type | Cardinality | Description | M/C/O |
| path | UTF8String | 1 | Contains the value of the path attribute for the MSRP media-line present in the SIP Message being reported. See IETF RFC 4975 [79] clause 8. | M |

## \*\*\*\* END OF MAIN DOCUMENT CHANGES \*\*\*\*

## \*\*\*\* START OF FIRST CHANGE (ATTACHMENTS) \*\*\*\*

---a/33128/r18/TS33128Payloads.asn  
+++b/33128/r18/TS33128Payloads.asn

@@ -4448,6 +4448,11 @@ RCSCapabilityDiscovery ::= SEQUENCE

4448 4448

4449 4449 IMDNMessageID ::= UTF8String

4450 4450

4451 + MSRPPath ::= SEQUENCE

4452 + {

4453 + path [1] UTF8String

4454 + }

4455 +

4451 4456 RCSConversationID ::= UUID

4452 4457

4453 4458 RCSContributionID ::= UUID

@@ -4506,7 +4511,8 @@ RCSSIPSessionMessage ::= SEQUENCE

4506 4511 {

4507 4512 sessionLeg [1] RCSSessionLeg,

4508 4513 sIPMessage [2] IMSPayload,

4509 - rCSSessionResult [3] RCSSessionResult

4514 + rCSSessionResult [3] RCSSessionResult,

4515 + mSRPPathInfo [4] MSRPPath

4510 4516 }

4511 4517

4512 4518 RCSSessionResult ::= ENUMERATED

## \*\*\*\* END OF ALL CHANGES \*\*\*\*