**3GPP TSG- Meeting #**

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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 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:*** | Currently, there are RCS events listed in TS 33.127 that do not have associated stage 3 record details. |
|  |  |
| ***Summary of change:*** | This contribution adds the Stage 3 record details for the reporting of RCS Sessions. The records included are Start of interception with already registered UE, RCS Session Establishment, RCS Session Modification and RCS Session Release. The included records allow for the reporting of both Standalone Message sessions and CPM Chat sessions. |
|  |  |
| ***Consequences if not approved:*** | There will continue to be no way to report some of the events listed in TS 33.127 so LI requirements may not be met. |
|  |  |
| ***Clauses affected:*** | 7.13.3.4, 7.13.3.5, 7.13.4, TS33128Payloads.asn |
|  |  |
|  | **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: [!189](https://forge.3gpp.org/rep/sa3/li/-/merge_requests/189) Commit hash: [1be560845f4b0cb3f21e6e31cb011fc86f4487f7](https://forge.3gpp.org/rep/sa3/li/-/merge_requests/189/diffs?commit_id=1be560845f4b0cb3f21e6e31cb011fc86f4487f7)  |
|  |  |
| ***This CR's revision history:*** | s3i230381 |

## \*\*\*\* 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 (see clause 7.13.3.X).

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 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 |
| 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 |

###### 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 Type: RCSSIPSessionInfo

Table 7.13.3.4.5.5-1: Payload for RCSSIPSessionInfo parameter

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field name** | **Type** | **Cardinality** | **Description** | **M/C/O** |
| toHeader | UTF8String | 1 | Contains the value of the To Header from the last invite for the SIP session being reported. | M |
| fromHeader | UTF8String | 1 | Contains the value of the From Header from the last invite for the SIP session being reported. | M |
| callID | UTF8String | 1 | Contains the value of the CallID Header from the last invite for the SIP session being reported. | M |

###### 7.13.3.4.5.4 Type: RCSSessionResult

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

Table 7.13.3.4.5.4-1: 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. |

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

#### 7.13.4 Generation of IRI over LI\_HI2

When an xIRI is received over LI\_X2 from the IRI-POI in the RCS server, the MDF2 shall send the IRI message over LI\_HI2 without undue delay. The IRI message shall contain a copy of the relevant record received from LI\_X2. The record may be enriched by other information available at the MDF (e.g., additional location information).

The timestamp field of the ETSI TS 102 232-1 [9] PSHeader structure shall be set to the time at which the RCS server event was observed (i.e., the timestamp field of the xIRI).

Tables 7.13.4-1 shows the IRI type (see ETSI TS 102 232-1 [9] clause 5.2.10) to be used for each record type.

**Table 7.13.4-1: IRI type for messages**

|  |  |
| --- | --- |
| **Record type** | **IRI Type** |
| RCSRegistration | REPORT |
| RCSDeregistration | REPORT |
| RCSCapabilityDiscovery | REPORT |
| RCSStartOfInterceptionWithAlreadyRegisteredUE | REPORT |
| RCSMessage | REPORT |
| RCSSessionEstablishment | REPORT |
| RCSSessionModification | REPORT |
| RCSSessionRelease | REPORT |

## \*\*\*\* END OF ALL CHANGES (MAIN DOCUMENT) \*\*\*

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

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

@@ -238,7 +238,10 @@ XIRIEvent ::= CHOICE

238 238 -- RCS events, see clause 7.13.3

239 239 rCSRegistration [140] RCSRegistration,

240 240 rCSMessage [141] RCSMessage,

241 - rcsCapabilityDiscovery [142] RCSCapabilityDiscovery

- 241 rCSCapabilityDiscovery [142] RCSCapabilityDiscovery,

- 242 rCSSessionEstablishment [143] RCSSessionEstablishment,

- 243 rCSSessionModification [144] RCSSessionModification,

- 244 rCSSessionRelease [145] RCSSessionRelease

242 245 }

243 246

244 247 -- ==============

@@ -469,7 +472,10 @@ IRIEvent ::= CHOICE

469 472 -- RCS events, see clause 7.13.3

470 473 rCSRegistration [140] RCSRegistration,

471 474 rCSMessage [141] RCSMessage,

472 - rcsCapabilityDiscovery [142] RCSCapabilityDiscovery

- 475 rCSCapabilityDiscovery [142] RCSCapabilityDiscovery,

- 476 rCSSessionEstablishment [143] RCSSessionEstablishment,

- 477 rCSSessionModification [144] RCSSessionModification,

- 478 rCSSessionRelease [145] RCSSessionRelease

473 479 }

474 480

475 481 IRITargetIdentifier ::= SEQUENCE

@@ -4162,6 +4168,47 @@ RCSMessage ::= SEQUENCE

4162 4168 messagePayload [12] RCSPayload

4163 4169 }

4164 4170

- 4171 -- See clause 7.13.3.4.2.1 for details of this structure

- 4172 RCSSessionEstablishment ::= SEQUENCE

- 4173 {

- 4174 rCSTargetIdentities [1] SEQUENCE SIZE (1..MAX) OF RCSIdentity,

- 4175 conversationID [2] RCSConversationID,

- 4176 contributionID [3] RCSContributionID,

- 4177 inReplyToContributionID [4] RCSContributionID OPTIONAL,

- 4178 sessionReplaces [5] RCSContributionID OPTIONAL,

- 4179 rCSSessionType [6] RCSSessionType,

- 4180 sessionDirection [7] Direction,

- 4181 rCSSessionMessage [8] RCSSIPSessionMessage,

- 4182 location [9] Location

- 4183 }

- 4184

- 4185 -- See clause 7.13.3.4.3.1 for details of this structure

- 4186 RCSSessionModification ::= SEQUENCE

- 4187 {

- 4188 rCSTargetIdentities [1] SEQUENCE SIZE (1..MAX) OF RCSIdentity,

- 4189 conversationID [2] RCSConversationID,

- 4190 contributionID [3] RCSContributionID,

- 4191 inReplyToContributionID [4] RCSContributionID OPTIONAL,

- 4192 sessionReplaces [5] RCSContributionID OPTIONAL,

- 4193 rCSSessionType [6] RCSSessionType,

- 4194 sessionDirection [7] Direction,

- 4195 sessionEndpoints [8] RCSSessionEndpoints,

- 4196 rCSSIPSessionMessage [9] RCSSIPSessionMessage,

- 4197 location [10] Location

- 4198 }

- 4199

- 4200 -- See clause 7.13.3.4.4.1 for details of this structure

- 4201 RCSSessionRelease ::= SEQUENCE

- 4202 {

- 4203 rCSTargetIdentities [1] SEQUENCE SIZE (1..MAX) OF RCSIdentity,

- 4204 conversationID [2] RCSConversationID,

- 4205 contributionID [3] RCSContributionID,

- 4206 rCSSessionType [4] RCSSessionType,

- 4207 sessionDirection [5] Direction,

- 4208 rCSSIPSessionMessage [6] RCSSIPSessionMessage,

- 4209 location [7] Location

- 4210 }

- 4211

4165 4212 -- See clause 7.13.3.5 for details of this structure

4166 4213 RCSCapabilityDiscovery ::= SEQUENCE

4167 4214 {

@@ -4188,8 +4235,6 @@ RCSDestination ::= SEQUENCE SIZE (1..MAX) OF RCSIdentity

4188 4235

4189 4236 RCSGroupChatSessionID ::= SIPURI

4190 4237

4191 - RCSServerURI ::= UTF8String

4192 -

4193 4238 RCSIdentity ::= CHOICE

4194 4239 {

4195 4240 fiveGSIdentities [1] FiveGSSubscriberIDs,

@@ -4213,6 +4258,44 @@ RCSRegistrationType ::= ENUMERATED

4213 4258 networkDeregistration(4)

4214 4259 }

4215 4260

- 4261 RCSServerURI ::= UTF8String

- 4262

- 4263 RCSSessionEndpoints ::= ENUMERATED

- 4264 {

- 4265 remoteOnly(1),

- 4266 locatlOnly(2),

- 4267 localAndRemote(3)

- 4268 }

- 4269

- 4270 RCSSessionLeg ::= ENUMERATED

- 4271 {

- 4272 remoteLeg(1),

- 4273 localLeg(2)

- 4274 }

- 4275

- 4276 RCSSessionType ::= ENUMERATED

- 4277 {

- 4278 largeMessageStandalone(1),

- 4279 oneTo1Chat(2)

- 4280 }

- 4281

- 4282 RCSSIPSessionMessage ::= SEQUENCE

- 4283 {

- 4284 sessionLeg [1] RCSSessionLeg,

- 4285 sIPMessage [2] IMSPayload,

- 4286 rCSSessionResult [3] RCSSessionResult

- 4287 }

- 4288

- 4289 RCSSessionResult ::= ENUMERATED

- 4290 {

- 4291 newLegRequested(1),

- 4292 newLegEstablished(2),

- 4293 legModificationRequested(3),

- 4294 legModificationComplete(4),

- 4295 legRemovalRequest(5),

- 4296 legRemovalComplete(6)

- 4297 }

- 4298

4216 4299 -- =================

4217 4300 -- EES definitions

4218 4301 -- =================

## \*\*\*\* END OF ALL CHANGES (MAIN DOCUMENT) \*\*\*