The table below list the 3GPP CT1 Agreed CRs:

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| --- | --- | --- | --- |
| C1-164324 | Robo-Calling and Spoofing of Telephone Numbers and Need for Verification Tel URI Parameter | Discussion Paper |  |
| C1-164851 | New WID on User Controlled Spoofed Call Treatment (SPECTRE-CT) | Work Item |  |
| C1-164863 | Indication of calling number verification | Procedures are added, allowing the home network to inform UEs about its support of calling number verification during registration, and allowing the home network to inform UEs about the calling number verification status (or to inform the UE that calling number verification has not been performed) in an initial INVITE request and MESSAGE request.  Reference to draft-ietf-stir-rfc4474bis is added. | TS 24.229 |
| C1-170132 | Robo-Calling and Spoofing of Telephone Numbers and Need for draft RFC 4474bis and “666” | Discussion Paper |  |
| C1-170421 | Addition of the Unwanted response | The response code 666 (Unwanted) is specified in draft-ietf-sipcore-status-unwanted for the user to be able to indicate that an incoming call is unwanted. This information can then be used by the network to take further actions.  Adding a Reason header with protocol SIP and cause unwanted for call release.  Adding support for the unwanted response code to annex A. | TS 24.229 |
| C1-170487 | Identity verification using the Identity header procedures | A new subclause 5.7.1.x is added.  New originating procedures added to this subclause.  Text added in Guilin to 5.7.1.4 for terminating procedures is moved to this new subclause.  Support for authenticated identity management added to Annex A | TS 24.229 |
| C1-171062 | Presence of a "verstat" tel URI parameter in the From header field | A "verstat" tel URI parameter in a tel URI or a SIP URI with a user=phone parameter may be present in the P-Asserted-Identity header field or in the From header field in the initial INVITE and MESSAGE requests.  However, in subclauses 5.1.2A.2 and 7.2A.20.1 the presence of the "verstat" tel URI parameter is indicated only in the P-Asserted-Identity header field.  Subclauses 5.1.2A.2 and 7.2A.20.1: added that the "verstat" tel URI parameter can be present in the From header field. | TS 24.229 |
| C1-171326 | Addition of missing 4xx response codes for SPECTRE to profile tables | SIP failure response codes 428, 436, 437 and 438 are added to the Annex A profile tables.  the UA major capability related to draft-ietf-stir-rfc4474bis is also made applicable to the MGCF, MSC server enhanced for ICS, SRVCC or DRVCC roles. | TS 24.229 |
| C1-172576 | Profile Table Correction for 666 | Currently support for 666 (Unwanted) response is not correctly shown in the profile tables in Annex A.  Table A.162 and Table A.164 don’t have entries for 666 (Unwanted) | TS 24.229 |
| C1-172256 | Usage of sip.666 | Network to use the feature capability indicator to indicate to UE in 200 (OK) to REGISTER to UE that it supports 666.  UE to take this information into account. | TS 24.229 |
| C1-171999 | Reference update: draft-ietf-stir-rfc4474bis | The version number of draft-ietf-stir-rfc4474bis is updated to reflect the latest draft version. | TS 24.229 |
| C1-172921 | RFC 8197 available | RFC 8197 replaces draft-ietf-sipcore-status-unwanted-06. No technical changes that would impact 24.229 are made. | TS 24.229 |
| C1-174986 | IANA registration for “verstat” complete |  | TS 24.229 |
| C1-174987 | IANA registration for “verstat” complete |  | TS 24.229 |
| C1-180374 | Enhancements to SPECTRE | Discussion Paper for eSPECTRE WID |  |
| C1-180637 | Enhancements to Call spoofing functionality | eSPECTRE WID |  |
| C1-181109 | Reference update: RFC 8224 | IETF draft-ietf-stir-rfc4474bis has now been published as RFC 8224, and therefore the specification requires updating to the published version. | TS 24.229 |
| C1-181110 | Reference update: RFC 8224 | IETF draft-ietf-stir-rfc4474bis has now been published as RFC 8224, and therefore the specification requires updating to the published version. | TS 24.229 |

The table below list the 3GPP CT3 Agreed CRs:

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| --- | --- | --- | --- |
| C3-171045 | Robo-Calling and Spoofing of Telephone Numbers | Discussion Paper |  |
| C3-171072 | Support of "Calling number verification” | Support of a "Calling number verification" feature in accordance to procedures defined in TS 24.229 needs to be included in TS 29.163.  If a "Calling number verification" feature is supported, and if the I-MGCF received a "verstat" tel URI parameter within the P-Asserted-ID and From SIP header fields in the initial INVITE request the I-MGCF may map the verstat" tel URI parameter to the Screening Indicator field of the ISUP Calling Party Number and Generic (Additional Calling Party Number parameters.  If a "Calling number verification" feature is supported, then the called UE can send a 666 (Unwanted) response to the initial INVITE request or a BYE request with a Reason header field with a protocol value set to "SIP" and a "cause" header field parameter set to "666" to indicate that an incoming call is unwanted. If the MGCF receives the 666 (Unwanted) response to the initial INVITE request or the BYE request with the Reason header field with the protocol value set to "SIP" and a "cause" header field parameter set to "666" then the MGCF should map SIP status code "666 (Unwanted)" to the cause value "21 (Call rejected)" of the cause value field. | TS 29.163 |
| C3-171221 | Support of "Calling number verification” | Support of a "Calling number verification" feature over the II-NNI in accordance to procedures defined in TS 24.229 needs to be included in TS 29.165.  Support of the "Calling number verification" added in:  - subclause 6.1.1.3.4 - added applicability of the Identity header field;  - subclause 6.1.3. - major capabilities;  - new clause X;  - annex A – added support of the Identity header field;  - annex B– added support of the Identity header field in the INVITE and MESSAGE requests; and  - subclause C.3.1. | TS 29.165 |
| C3-171137 | Reception of 666 (Unwanted) response | If a "Calling number verification" feature is supported, then the called UE can send a 666 (Unwanted) response to the initial INVITE request or a BYE request with a Reason header field with a protocol value set to "SIP" and a "cause" header field parameter set to "666" to indicate that an incoming call is unwanted.  If the MSC Server receives the 666 (Unwanted) response to the initial INVITE request or the BYE request with the Reason header field with the protocol value set to "SIP" and a "cause" header field parameter set to "666" then the MSC Server should map SIP status code "666 (Unwanted)" to the cause value "21 (Call rejected)" of the cause information element. | TS 29.292 |
| C3-172035 | Mapping of additional 4xx response codes for SPECTRE | SIP failure response codes 428, 436, 437 and 438 are mapped to ISUP Cause Value No 127 (Interworking, unspecified).  IETF draft-ietf-stir-rfc4474bis introduces the following SIP failure response codes in subclause 6.2.2:  A 428 response will be sent (per Section 6.2) when an Identity header field is required, but no Identity header field without a "ppt" parameter, or with a supported "ppt" value, has been received. In the case where one or more Identity header fields with unsupported "ppt" values have been received, then a verification service may send a 428 with a human-readable reason phrase like "Use Supported PASSporT Format". Note however that this specification gives no guidance on how a verification service might decide to require an Identity header field for a particular SIP request. Such authorization policies are outside the scope of this specification.  The 436 'Bad Identity Info' response code indicates an inability to acquire the credentials needed by the verification service for validating the signature in an Identity header field. Again, given the potential presence of multiple Identity header fields, this response code should only be sent when the verification service is unable to deference the URIs and/or acquire the credentials associated with all Identity header fields in the request. This failure code could be repairable if the authentication service resends the request with an 'info' parameter pointing to a credential that the verification service can access.  The 437 'Unsupported Credential' is sent when a verification service can acquire, or already holds, the credential represented by the 'info' parameter of at least one Identity header field in the request, but does not support said credential(s), for reasons such as failing to trust the issuing CA, or failing to support the algorithm with which the credential was signed.  The 438 'Invalid Identity Header' response indicates that of the set of Identity header fields in a request, no header field with a valid and supported PASSporT object has been received. Like the 428 response, this is sent by a verification service when its local policy dictates that a broken signature in an Identity header field is grounds for rejecting a request. Note that in some cases, an Identity header field may be broken for other reasons than that an originator is attempting to spoof an identity: for example, when a transit network alters the Date header field of the request. Sending a full form PASSporT can repair some of these conditions (see Section 6.2.4), so the recommended way to attempt to repair this failure is to retry the request with the full form of PASSporT if it had originally been sent with the compact form. The alternative reason phrase 'Invalid PASSporT' can be used when an extended full form PASSporT lacks required headers or claims, or when an extended full form PASSporT signaled with the "ppt" parameter lacks required claims for that extension. Sending a string along these lines will help humans debugging the sending system.  All those errors are network internal and SIP-specific and do not have an equivalent ISUP cause. | TS 29.163 |
| C3-172036 | Mapping of additional 4xx response codes for SPECTRE | SIP failure response codes 428, 436, 437 and 438 are mapped to cause information element value No 127 (Interworking, unspecified) in the CC DISCONNECT message.  IETF draft-ietf-stir-rfc4474bis introduces the following SIP failure response codes in subclause 6.2.2:  A 428 response will be sent (per Section 6.2) when an Identity header field is required, but no Identity header field without a "ppt" parameter, or with a supported "ppt" value, has been received. In the case where one or more Identity header fields with unsupported "ppt" values have been received, then a verification service may send a 428 with a human-readable reason phrase like "Use Supported PASSporT Format". Note however that this specification gives no guidance on how a verification service might decide to require an Identity header field for a particular SIP request. Such authorization policies are outside the scope of this specification.  The 436 'Bad Identity Info' response code indicates an inability to acquire the credentials needed by the verification service for validating the signature in an Identity header field. Again, given the potential presence of multiple Identity header fields, this response code should only be sent when the verification service is unable to deference the URIs and/or acquire the credentials associated with all Identity header fields in the request. This failure code could be repairable if the authentication service resends the request with an 'info' parameter pointing to a credential that the verification service can access.  The 437 'Unsupported Credential' is sent when a verification service can acquire, or already holds, the credential represented by the 'info' parameter of at least one Identity header field in the request, but does not support said credential(s), for reasons such as failing to trust the issuing CA, or failing to support the algorithm with which the credential was signed.  The 438 'Invalid Identity Header' response indicates that of the set of Identity header fields in a request, no header field with a valid and supported PASSporT object has been received. Like the 428 response, this is sent by a verification service when its local policy dictates that a broken signature in an Identity header field is grounds for rejecting a request. Note that in some cases, an Identity header field may be broken for other reasons than that an originator is attempting to spoof an identity: for example, when a transit network alters the Date header field of the request. Sending a full form PASSporT can repair some of these conditions (see Section 6.2.4), so the recommended way to attempt to repair this failure is to retry the request with the full form of PASSporT if it had originally been sent with the compact form. The alternative reason phrase 'Invalid PASSporT' can be used when an extended full form PASSporT lacks required headers or claims, or when an extended full form PASSporT signaled with the "ppt" parameter lacks required claims for that extension. Sending a string along these lines will help humans debugging the sending system.  All those errors are network internal and SIP-specific and do not have an equivalent cause information element value. | TS 29.292 |
| C3-172091 | Support of feature capability indicator "sip.666" | Currently, the specification does not contain a requirement to support a feature capability indicator "sip.666", defined in IETF in draft-ietf-sipcore-status-unwanted.  If the network supports a SIP response code "666 (Unwanted)" the S-CSCF will include the "sip.666" feature-capability indicator in a 200 (OK) final response to a REGISTER request.  If the UE is roaming, the "sip.666" feature-capability indicator when included in a Feature-Caps header field in the 200 (OK) response to the REGISTER request should be supported at the roaming II-NNI.  Added that a "sip.666" feature-capability indicator when included in a Feature-Caps header field in a 200 (OK) response to a REGISTER request shall be supported at the roaming II-NNI. | TS 29.165 |
| C3-173190 | Reference update: draft-ietf-sipcore-status-unwanted | The version number of draft-ietf-sipcore-status-unwanted is updated to reflect the latest draft version.  Response code value for unwanted calls (reason phrase "Unwanted") changed from "666" to "607". | TS 29.163 |
| C3-173191 | Reference update: draft-ietf-sipcore-status-unwanted | The version number of draft-ietf-sipcore-status-unwanted is updated to reflect the latest draft version.  Response code value for unwanted calls (reason phrase "Unwanted") changed from "666" to "607". | TS 29.292 |
| C3-173192 | Support of feature capability indicator "sip.607" | Added that a "sip.666" feature-capability indicator when included in a Feature-Caps header field in a 200 (OK) response to a REGISTER request shall be supported at the roaming II-NNI.  Changes from CT3 #89 meeting agreed version in C3-172091:  - the version number of draft-ietf-sipcore-status-unwanted is updated to reflect the latest draft version;  - response code value for unwanted calls (reason phrase "Unwanted") changed from "666" to "607"; and  - name of the feature-capability indicator changed from "sip.666" to "sip.607". | TS 29.165 |
| C3-173021 | Reference update: draft-ietf-stir-rfc4474bis | The version number of draft-ietf-stir-rfc4474bis is updated to reflect the latest draft version. | TS 29.163 |
| C3-173022 | Reference update: draft-ietf-stir-rfc4474bis | The version number of draft-ietf-stir-rfc4474bis is updated to reflect the latest draft version. | TS 29.165 |
| C3-173072 | Mapping of additional 4xx response codes for SPECTRE | SIP failure response codes 428, 436, 437 and 438 are mapped to cause information element value No 127 (Interworking, unspecified) in the CC DISCONNECT message.  Changes from CT3 #89 meeting agreed version in C3-172036:  the version number of draft-ietf-stir-rfc4474bis is updated to reflect the latest draft version. | TS 29.292 |
| C3-174101 | Reference update from draft-ietf-sipcore-status-unwanted-06 to RFC 8197 | RFC 8197 replaces draft-ietf-sipcore-status-unwanted-06.  There are no technical changes between the draft and the RFC.  Rel 14 | TS 29.163 |
| C3-174102 | Reference update from draft-ietf-sipcore-status-unwanted-06 to RFC 8197 | RFC 8197 replaces draft-ietf-sipcore-status-unwanted-06.  There are no technical changes between the draft and the RFC.  Rel 14 | TS 29.165 |
| C3-174103 | Reference update from draft-ietf-sipcore-status-unwanted-06 to RFC 8197 | RFC 8197 replaces draft-ietf-sipcore-status-unwanted-06.  There are no technical changes between the draft and the RFC.  Rel 15 | TS 29.165 |
| C3-174104 | Reference update from draft-ietf-sipcore-status-unwanted-06 to RFC 8197 | RFC 8197 replaces draft-ietf-sipcore-status-unwanted-06.  There are no technical changes between the draft and the RFC. | TS 29.292 |
| C3-174224 | Added the profile status in proxy role regarding “A SIP Response Code for Unwanted Calls” | The profile status in proxy role about “A SIP Response Code for Unwanted Calls” was specified in TS 24.229. For alignment between 3GPP specifications, it should be reflected to TS 29.165.  In Addition, there are editorial errors in TS 29.165.  - In subclause 3.3, there is capital letter(misspell) about MCData.  - In item 83 of table 6.1.3.1, there is wrong reference name. | TS 29.165 |
| C3-181048 | Reference update: RFC 8224 | IETF draft-ietf-stir-rfc4474bis has now been published as RFC 8224, and therefore the specification requires updating to the published version. Rel 14 | TS 29.163 |
| C3-181049 | Reference update: RFC 8224 | IETF draft-ietf-stir-rfc4474bis has now been published as RFC 8224, and therefore the specification requires updating to the published version. Rel 15 | TS 29.163 |
| C3-181050 | Reference update: RFC 8224 | IETF draft-ietf-stir-rfc4474bis has now been published as RFC 8224, and therefore the specification requires updating to the published version. Rel 14 | TS 29.165 |
| C3-181051 | Reference update: RFC 8224 | IETF draft-ietf-stir-rfc4474bis has now been published as RFC 8224, and therefore the specification requires updating to the published version. Rel 15 | TS 29.165 |
| C3-181052 | Reference update: RFC 8224 | IETF draft-ietf-stir-rfc4474bis has now been published as RFC 8224, and therefore the specification requires updating to the published version. Rel 14 | TS 29.292 |
| C3-181053 | Reference update: RFC 8224 | IETF draft-ietf-stir-rfc4474bis has now been published as RFC 8224, and therefore the specification requires updating to the published version. Rel 15 | TS 29.292 |
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