3GPP TSG SA WG5 Meeting 135-e S5-211300rev2

electronic meeting, online, 25 January - 3 February 2021

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **28.537** | **CR** | **Draft CR** | **rev** | **-** | **Current version:** | **16.0.0** |  |
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| *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 | **X** | Core Network | **X** |

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| ***Title:*** | Rel-17 CR 28.537 Add file management requirements | | | | | | | | | |
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| ***Source to WG:*** | Nokia, Nokia Shanghai Bell | | | | | | | | | |
| ***Source to TSG:*** | SA5 | | | | | | | | | |
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| ***Work item code:*** | TEI17 | | | | |  | ***Date:*** | | | 2021-01-15 |
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| ***Category:*** | **B** |  | | | | | ***Release:*** | | | 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 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-15 (Release 15) Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18)* | |
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| ***Reason for change:*** | | File management requirements are missing for already defined functions related to upload. Propose new requirements related to download. | | | | | | | | |
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| ***Summary of change:*** | | File management requirements missing for already defined functions related to upload are added. New requirements related for download are added. | | | | | | | | |
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| ***Consequences if not approved:*** | | File management requirements are missing for already defined functions related to upload. File management cannot be used for downloading files. | | | | | | | | |
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| ***Clauses affected:*** | | X (New) | | | | | | | | |
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|  | | **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 ... | | |
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| ***Other comments:*** | | **(First) Input to DraftCR to 28.537 for capturing Rel-17 file management requirements** | | | | | | | | |
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| ***This CR's revision history:*** | |  | | | | | | | | |

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| **First modification** |

# X File management

## X.1 Overview

File management deals with transferring files between MnS producers and MnS consumers. The file transfer from a MnS producer to a MnS consumer is called file upload, and the file transfer from a MnS consumer to a MnS producer is called file download.

To ensure the receiver of a file has sufficient resources to accept a file, files are never pushed. The entity that will receive the file must initiate the transmission of the file.

For file download, the MnS consumer asks the MnS producer to download a file. The MnS consumer does not push it onto the MnS producer. Likewise, a file is never pushed onto a MnS consumer. Either the MnS consumer uploads a file from the MnS producer because the MnS consumer receives a file ready notification from the MnS producer or the MnS consumer reads the list of available (ready) files on the MnS producer and decides to upload an available file.

Not all the requirements in this clause are applicable in all contexts. For example, for management of measurement files only subset is applicable. The applicable subsets sre specified elsewhere.

## X.2 Specification level requirements

**General requirements:**

REQ-FM-FUN-1: The file transfer protocol implementation shall preserve the formatting of the file during exchange.

REQ-FM-FUN-2: The file transfer protocol implementation shall preserve the encoding of the file during exchange.

REQ-FM-FUN-3: The MnS producer shall support at least one of the following file transfer protocols: SFTP, FTPES, HTTPS. The MnS consumer shall use the file transfer protocol supported by the MnS producer.

REQ-FM-FUN-4: The MnS consumer shall use the file transfer protocol supported by the MnS producer.

**Requirements related to uploading a file from a MnS producer to a MnS consumer:**

REQ-FM-FUN-4: The MnS producer shall support the capability allowing a MnS consumer to upload a file from the MnS producer.

REQ-FM-FUN-5: The MnS producer shall support the capability allowing a MnS consumer to retrieve the list of files available for transfer from the MnS producer.

*Editor's note: Existing Rel-16 operation listAvailableFiles*

REQ-FM-FUN-6: The MnS producer shall support the capability to inform a MnS consumer about files that are available for upload.

*Editor's note: Existing Rel-16 notification notifyFileReady*

REQ-FM-FUN-7: The MnS producer shall support the capability to inform a MnS consumer about errors that occurred during or before the preparation of a file.

*Editor's note: Existing Rel-16 notification notifyFilePreparationError*

**Requirements related to downloading a file from a MnS consumer to a MnS producer:**

REQ-FM-FUN-8: The MnS producer shall support the capability to download a file from a designated file server when triggered by a MnS consumer.

REQ-FM-FUN-9: The MnS producer shall support the capability for a MnS consumer to trigger the MnS producer to download a file from the MnS consumer or a designated file server.

*Editor's note: New Rel-17 operation triggerFileDownload*

REQ-FM-FUN-10: The MnS producer shall support the capability to inform the MnS consumer, that has triggered a file download from the MnS consumer or a file server to the MnS producer, about the progress of that file download.

*Editor's note: New Rel-17 notification notifyFileDownloadStatus*

## X.3 Procedures

*Editor's note: Procedues are to be added.*

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| **End of modifications** |