**3GPP TSG- Meeting # *rev1***

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| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
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|  | **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 Input to DraftCR 28.537 Add requirements for file upload |
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| ***Source to WG:*** | Nokia, Nokia Shanghai Bell |
| ***Source to TSG:*** | SA5 |
|  |  |
| ***Work item code:*** | MADCOL |  | ***Date:*** | 2021-04-29 |
|  |  |  |  |  |
| ***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 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-15 (Release 15)Rel-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)* |
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| ***Reason for change:*** | Add two new requirements for file upload, and restructure existing content |
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| ***Summary of change:*** |  |
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| ***Consequences if not approved:*** |  |
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| ***Clauses affected:*** | A |
|  |  |
|  | **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:*** | **Input to DraftCR for TS 28.537 related to WI MADCOL and WI FIMA** |
|  |  |
| ***This CR's revision history:*** |  |

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| **First modification** |

# A File management

## A.1 File transfer

### A.1.1 Description

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.

Existing file transfer protocols are used. These protocols need to comply to requirements specified in this clause.

### A.1.2 Requirements

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

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

REQ-FMG-3: The MnS producer shall support at least one of the following file transfer protocols: SFTP, FTPES, HTTPS.

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

## A.2 File upload from a MnS producer to a MnS consumer

### A.2.1 Description

A file is not pushed by a MnS producer 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.

### A.2.2 Requirements

REQ-FMU-1: The MnS producer shall support the capability allowing a MnS consumer to upload a file from the MnS producer.

REQ-FMU-2: The MnS producer shall support the capability allowing a MnS consumer to retrieve the list of files available for transfer from the MnS producer.

REQ-FMU-3: The MnS producer shall support the capability to inform a MnS consumer about files that are available for upload.

REQ-FMU-4: The MnS producer shall support the capability to inform a MnS consumer about errors that occurred during the preparation of a file.

REQ-FMU-5: The information transferred to a MnS consumer about an available file shall allow associating the file to the process on the MnS producer that generated the file, if any such process exists and has an identifier.

REQ-FMU-6: The MnS producer shall support the capability allowing the MnS consumer to indicate to a MnS producer, that the MnS consumer does not need a file anymore, such that the MnS producer hides the file in subsequent requests or may decide to deletes it altogether.

## A.3 File download from a MnS consumer to a MnS producer

### A.3.1 Description

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.

### A.3.2 Requirements

REQ-FMD-1: The MnS producer shall support the capability to download a file from a MnS consumer or a designated file server when triggered by a MnS consumer.

REQ-FMD-2: The MnS producer shall support the capability allowing a MnS consumer to trigger the MnS producer to download a file from the MnS consumer or a designated file server.

REQ-FMD-3: 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.

## A.3 Procedures

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

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| **End of modifications** |