**3GPP TSG- Meeting #141S5-221759d2**

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| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  | **28.623** | **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 | **X** | Core Network | **X** |

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| ***Title:***  | Input to DraftCR Add file download NRM fragment, YANG |
|  |  |
| ***Source to WG:*** | Ericsson |
| ***Source to TSG:*** | SA5 |
|  |  |
| ***Work item code:*** | FIMA |  | ***Date:*** | 2022-02-10 |
|  |  |  |  |  |
| ***Category:*** |  |  | ***Release:*** | Rel- |
|  | *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:*** | Requirements for file download were agreed at SA5#138. This contribution proposes the corresponding file download control NRM fragment. |
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| ***Summary of change:*** | Add FileDownloadJob IOC to NRM, including support for common async operation monitoring. |
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| ***Consequences if not approved:*** | WI FIMA solution will lack download support. |
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| ***Clauses affected:*** | D.2.x (new) |
|  |  |
|  | **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 28.622 CR 0144  |
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| ***Other comments:*** | Baseline DraftCR for FIMA: S5-214758.Definition uses a common datatype (ProcessMonitor) as defined in S5-221549.Forge link:<https://forge.3gpp.org/rep/sa5/MnS/-/tree/S5-221330_28.622_Rel-17_Input_to_DraftCR_Add_file_download_control_NRM_fragment> |
|  |  |
| ***This CR's revision history:*** | S5-221371 |

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| **First modification** |

## D.2.11 module \_3gpp-common-filemanagement.yang

<CODE BEGINS>

module \_3gpp-common-filemanagement {

 yang-version 1.1;

 namespace "urn:3gpp:sa5:\_3gpp-common-filemanagement";

 prefix "filemgmt3gpp";

 import \_3gpp-common-subnetwork { prefix subnet3gpp; }

 import \_3gpp-common-top { prefix top3gpp; }

 import \_3gpp-common-yang-types { prefix yang3gpp; }

 import \_3gpp-common-managed-element { prefix me3gpp; }

 organization "3GPP SA5";

 contact "https://www.3gpp.org/DynaReport/TSG-WG--S5--officials.htm?Itemid=464";

 description "Defines the YANG mapping of the FileDownloadJob Information Object

 Class (IOC) that is part of the Generic Network Resource Model (NRM).";

 reference "3GPP TS 28.623 Generic Network Resource Model (NRM)";

 revision 2022-02-10 { reference "Initial revision, S5-221757"; }

 grouping FileDownloadProcessMonitor {

 description "Provides specialisations of the ProcessMonitor datatype.";

 uses yang3gpp:ProcessMonitor {

 refine resultStateInfo {

 description "If status is FAILED this provides the reason.";

 must "true() = 'NULL'

 or 'UNKNOWN'

 or 'NO\_STORAGE'

 or 'LOW\_MEMORY'

 or 'NO\_CONNECTION\_TO\_REMOTE\_SERVER'

 or 'FILE\_NOT\_AVAILABLE'

 or 'DNS\_CANNOT\_BE\_RESOLVED'

 or 'TIMER\_EXPIRED'

 or 'OTHER'";

 }

 refine status {

 description "Limits to status applicable for file download.";

 must "false() = 'PARTIALLY\_FAILED'";

 }

 }

 }

 grouping FileDownloadJobGrp {

 description "Represents the FileDownloadJob IOC.";

 reference "3GPP TS 28.622";

 uses top3gpp:Top\_Grp;

 leaf fileLocation {

 description "Provides the location of a file.

 allowedValues: File URI (See RFC 8089)";

 mandatory true;

 type string;

 }

 leaf notificationRecipientAddress {

 description "Address of the notification recipient.";

 type string;

 }

 leaf cancelJob {

 description "Setting this attribute to TRUE cancels the file download job.

 As specified in the definition of ProcessMonitor, cancellation is possible in

 the NOT\_STARTED and RUNNING state. Setting the attribute to FALSE has no

 observable result.";

 type boolean;

 mandatory true;

 }

 list jobMonitor {

 key "id";

 description "Provides monitoring for the file download job.";

 uses FileDownloadProcessMonitor;

 }

 }

 grouping FileDownloadJobSubtree {

 description "Helps augmenting FileDownloadJob into multiple places.";

 list FileDownloadJob {

 description "Specifies the FileDownloadJob IOC, see 3GPP TS 28.622.";

 key "id";

 uses top3gpp:Top\_Grp;

 container attributes {

 uses FileDownloadJobGrp;

 }

 }

 }

 augment "/subnet3gpp:SubNetwork" {

 uses FileDownloadJobSubtree;

 }

 augment "/me3gpp:ManagedElement" {

 uses FileDownloadJobSubtree;

 }

}

<CODE ENDS>

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| **End of modifications** |