**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 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:*** | | 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 | | |
|  | |  | | | | | | | | |
| ***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** |