3GPP TSG SA WG5 Meeting 137-e TDoc <TDocNumber>

electronic meeting, online, 10 - 19 May 2021

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **28.622** | **CR** | **<CR#>** | **rev** | **<Rev#>** | **Current version:** | **<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:*** | Asynchronous operation NRM additions | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Ericsson | | | | | | | | | |
| ***Source to TSG:*** | <Source\_if\_TSG> | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | <Related\_WIs> | | | | |  | ***Date:*** | | | <Res\_date> |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **<Cat>** |  | | | | | ***Release:*** | | | Rel-1X |
|  | *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)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | | Forge link: | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

***First change***

### 4.3.B JobProgress <<Datatype>>

#### 4.3.B.1 Definition

This datatype provides attributes to monitor the progress of a job.

The mandatory attributes provide an identifier, status and result for the associated job.

For jobs which are long-running or need more detailed progress or result information other attributes, such as jobProgressInfo, can be used.

If a management operation results in starting an assosiacted job it should also result in the setting and updating of an attribute named "jobProgress" that has the type "JobProgress".

#### 4.3.B.2 Attributes

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute name | S | isReadable | isWritable | isInvariant | isNotifyable |
| jobId | M | T | F | F | T |
| jobStatus | M | T | F | F | T |
| jobProgressPercentage | O | T | F | F | T |
| jobProgressInfo | O | T | F | F | T |
| jobResult | M | T | F | F | T |
| jobResultInfo | O | T | F | F | T |
| jobTimer | O | T | T | F | F |
| jobStartTime | O | T | F | F | T |
| jobEndTime | O | T | F | F | T |
| cancelJob | O | T | T | F | T |

#### 4.3.B.2a Attribute definitions

| Attribute Name | Documentation and Allowed Values | Properties |
| --- | --- | --- |
| jobId | Id of the associated job | Type: String  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| jobStatus | Status of the job:   * Running: execution of the associated job is currently in progress * Cancelling: cancellation is in progress * Finished: the associated job is finished * Cancelled: the job was cancelled   allowedValues: RUNNING, CANCELLING, FINISHED, CANCELLED | Type: ENUM  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: RUNNING  isNullable: False |
| jobProgressPercentage | Progress of the associated job as percentage: 0..100 | Type: Integer  multiplicity: 0..1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| jobProgressInfo | Textual information about the state and progress of the associated job.  Specific jobs may define specific well-defined strings to be used in this attribute. | Type: String  multiplicity: 0..\*  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| jobResult | Result of the job:   * Success: the associated job has ended with success * Failure: the associated job ended with failure * not-available: No result is available yet   allowedValues: SUCCESS, FAILURE, NOT\_AVAILABLE | Type: ENUM  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| jobResultInfo | Detailed result or reason  Specific jobs may define specific well-defined strings to be used in this attribute. | Type: String  multiplicity: 0..1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| jobTimer | Time until the associated job is automatically cancelled by the provider. If set, the system decreases the jobTimer with time. When it reaches zero the cancellation of the associated job is initiated. If not set, there is no time limit for the job. | Type: Integer  multiplicity: 0.. 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| jobStartTime | Date and time when the associated job was started. | Type: DateTime  multiplicity: 0.. 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| jobEndTime | Date and time when the state changed to finished or cancelled.  If the time is in the future, it is the estimated time the job will end. | Type: DateTime  multiplicity: 0.. 1  isOrdered: N/A  isUnique: N/A  defaultValue: None  isNullable: False |
| cancelJob | If set to True, the job is requested to be cancelled. Once set to true, it is not possible to stop the cancellation. Further changes to the attribute have no effect. | Type: Boolean  multiplicity: 1  isOrdered: N/A  isUnique: N/A  defaultValue: False  isNullable: False |

***End of changes***