**3GPP TSG-SA5 Meeting #143-e *S5-223199***

**Online, , 9th May 2022 - 17th May 2022**

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| *CR-Form-v12.2* |
| **CHANGE REQUEST** |
|  |
|  | **28.622** | **CR** | **0157** | **rev** | **-** | **Current version:** | **16.11.0** |  |
|  |
| *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:***  | Alarm Handling Clarifications |
|  |  |
| ***Source to WG:*** | Ericsson Hungary Ltd |
| ***Source to TSG:*** | S5 |
|  |  |
| ***Work item code:*** | eNRM |  | ***Date:*** | 2022-04-28 |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***Release:*** | Rel-16 |
|  | *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-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19)* |
|  |  |
| ***Reason for change:*** | Some systems don’t support locking the AlarmList (and thereby forcing the provider to stop updating the AlarmList/AlarmRecords). It is proposed that the AlarmList.administrativeState attribute should be made optional-to-support. If a system does not support this attribute, the AlarmList shall always be considered UNLOCKED. While some systems support the writable administrativeState attribute as defined today, for other systems this causes problems:* Locking the AlarmList forces the provider to implement special handling for  faults that occured while administrativeState was LOCKED. Such faults should be raised as alarms immediately once the administrativeState becomes unlocked. However, this means that these internal fault indications need to be stored somewhere within the system (somewhere that is not the externally visible AlarmList MOI). Instead of creating a second internal alarmlist, it is seen as simpler and better functionality never to LOCK the AlarmList MOI.
* The fact that the provider keeps updating the Alarmlist MOI should not cause any problems to management systems. Sending of notifications still can be stopped using the NtfSubscriptionControl IOC.
* Updating the alarmlist always, is seen as basic functionality, critical for operations, that is not resource consuming. Stopping AlarmList updates is not viewed as needed functionality. It is seen as a bigger effort both in design-time and run-time to LOCK the AlarmList.

It is not stated whether alarmrecords can be deleted when administrativeState=LOCKED. |
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| ***Summary of change:*** | Change the supportqualifier of AlarmList.administrativeState to “O”.Indicate that alarmrecords cannot be deleted when administrativeState=LOCKED |
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| ***Consequences if not approved:*** | Unclear definitions, too restictive use of the AlarmList.administrativeState. |
|  |  |
| ***Clauses affected:*** | 4.3.26, 4.3.26.1, 4.3.26.2 |
|  |  |
|  | **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:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

***First change***

4.3.26 AlarmList

4.3.26.1 Definition

The AlarmList represents the capability to store and manage alarm records. It can be name-contained by SubNetwork and ManagedElement. The management scope of an AlarmList is defined by all descendant objects of the base managed object, which is the object name-containing the AlarmList, and the base object itself.

AlarmList instances are created by the system or are pre-installed. They cannot be created nor deleted by MnS consumers.

An instance of SubNetwork or ManagedElement has at most one name-contained instance of AlarmList.

When the alarm list is locked or disabled, the existing alarm records are not updated or deleted, and new alarm records are not added to the alarm list.

4.3.26.2 Attributes

The AlarmList IOC includes attributes inherited from Top IOC (defined in clause 4.3.29) and the following attributes:

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| --- | --- | --- | --- | --- | --- |
| **Attribute Name** | **S** | **isReadable**  | **isWritable** | **isInvariant** | **isNotifyable** |
| administrativeState | O | T | T | F | T |
| operationalState | M | T | F | F | T |
| numOfAlarmRecords | M | T | F | F | F |
| lastModification | M | T | F | F | F |
| alarmRecords | M | T | T | F | F |

***End of changes***