**3GPP TSG- Meeting #**

**, , - revision of S5-241132**

|  |
| --- |
| *CR-Form-v12.3* |
| **CHANGE REQUEST** |
|  |
|  |  | **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)*.* |
|  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network | **X** | Core Network | **X** |

|  |
| --- |
|  |
| ***Title:***  |  |
|  |  |
| ***Source to WG:*** |  |
| ***Source to TSG:*** | S5 |
|  |  |
| ***Work item code:*** |  |  | ***Date:*** |  |
|  |  |  |  |  |
| ***Category:*** | A |  | ***Release:*** |  |
|  | *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-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19) Rel-20 (Release 20)* |
|  |  |
| ***Reason for change:*** | Some IOC can not be created by the MnS consumer only by the producer. Just as other IOC properties this need to be visible in the YANG modules. |
|  |  |
| ***Summary of change:*** | A new YANG extension only-system-created is added to provide the missing information. (Only YANG updates.) |
|  |  |
| ***Consequences if not approved:*** | The consumer cannot create specific IOCs/MOIs and will not receive information about the failure reason. |
|  |  |
| ***Clauses affected:*** | Forge impact only. |
|  |  |
|  | **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:*** | YANG Forge link: <https://forge.3gpp.org/rep/sa5/MnS/-/merge_requests/1054> at commit 2c48892de034afd0ef18603f86b4f1f2b9e28262 |
|  |  |
| ***This CR's revision history:*** |  |

\*\*\* START OF CHANGE 1 \*\*\*

\*\*\* yang-models/\_3gpp-common-yang-extensions.yang \*\*\*

<CODE BEGINS>

module \_3gpp-common-yang-extensions {

 yang-version 1.1;

 namespace urn:3gpp:sa5:\_3gpp-common-yang-extensions ;

 prefix yext3gpp ;

 organization "3GPP SA5";

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

 description "The module defines YANG extensions needed

 3GPP YANG modeling.

 Extensions MUST be defined with the following structure in the

 description statement:

 - What is this statement.

 - Newline,

 - This statement can be a substatement of the xxx statements with

 cardinality x..y.

 - This statement can have the following substatements with

 cardinality x..y.

 - Newline

 - Is changing this statement an editorial, BC(backwards compatible)

 or NBC(non-BC) change?

 - Newline.

 - The argument its meaning and type. Preferably use YANG types and

 constraints to define the argument's type.

 Any extension statement can be added with a

 deviation/deviate add statement. In this case the restriction about

 the parent statement of the extension SHALL be evaluated based on the

 target of the deviation statement.

 Support for this module does not mean that a YANG server implements

 support for each of these extensions.

 Implementers of each specific module using an extensions MUST check

 if the server implements support for the used extension.

 Note: modules use many extensions which individual

 implementations MAY or MAY NOT support.

 If support for an extension is missing the extension statement needs

 individual handling or it SHOULD be removed from the module using

 the extension e.g. with a deviation.

 Copyright 2024, 3GPP Organizational Partners (ARIB, ATIS, CCSA, ETSI, TSDSI,

 TTA, TTC). All rights reserved.";

 reference "3GPP TS 28.623

 Generic Network Resource Model (NRM)

 Integration Reference Point (IRP);

 Solution Set (SS) definitions

 3GPP TS 28.623";

 revision 2024-04-05 { reference "CR-0332, 0333" ; }

 revision 2023-09-17 { reference "CR-0270, 0271" ; }

 revision 2022-10-31 { reference "CR-0195, 0196"; }

 revision 2019-06-23 { reference "Initial version"; }

 extension only-system-created {

 description

 "Indicates that the MOI can only be created and deleted by the

 MnS producer.

 System created MOIs can have both read-only and read-write data

 node children. Implementers shall add the extension to standard

 models if they restrict creation/deletion of an IOC.

 The statement MUST only be a sub-statement of the list statement,

 with the parent list statement representing an IOC.

 Zero or one only-system-created statement per parent statement is

 allowed. No sub-statements are allowed.

 Adding this statement is an NBC change, removing it is BC.";

 }

 extension notNotifyable {

 description

 "Indicates that data change notifications shall not be sent

 for this attribute. If the extension is not present and other

 conditions are fulfilled data change notification should be sent.

 If a list or container already has the notNotifyable

 extension, that is also valid for all contained data nodes.

 The statement MUST only be a substatement of a leaf, leaf-list, list,

 container statement that is contained within the 'attributes'

 container of an IOC and that represents an attribute or sub-parts of

 an attribute .

 Zero or one notNotifyable statement is allowed per parent statement.

 NO substatements are allowed.

 Adding this statement is an NBC change, removing it is BC.";

 }

 extension inVariant {

 description

 "Indicates that the value for the data node can only be set when the list

 data node representing the containing object(MOI) is created.

 The above statement in YANG terms means, that the value for the data

 node can only be set when the list entry that is the parent of the

 restricted node's ancestor container named 'attributes' is being created.

 To change the value after that, the mentioned

 list data node must be deleted and recreated with the restricted data node

 having the new value.

 If a list or container already has the inVariant

 extension, that is also valid for all contained data nodes.

 It is unnecessary to use and MUST NOT be used for key leafs.

 The statement MUST only be a substatement of a leaf, leaf-list, list

 statement that is config=true.

 Zero or one inVariant statement is allowed per parent statement.

 NO substatements are allowed.

 Adding this statement is an NBC change, removing it is BC.";

 }

 extension initial-value {

 description "Specifies a value that the system will set for a leaf

 leaf-list if a value is not specified for it when its parent list

 or container is created. The value has no effect in any other

 modification e.g. changing or removing the value.

 The description statement of the parent statement SHOULD contain

 the label 'Initial-value: ' followed by the text from the argument.

 The statement MUST only be a substatement of a leaf or leaf-list.

 The statement MUST NOT be present if the leaf or the leaf-list

 has a default statement or the type used for the data node

 has a default value.

 The statement MUST NOT be used for config=false data or in an

 action, rpc or notification.

 Zero or one initial-value statements are allowed for a leaf parent

 statement. Zero or more initial-value statements are allowed for a

 leaf-list parent statement. If the leaf-list is ordered-by user, the

 initial values are stored in the order they appear in the YANG definition.

 NO substatements are allowed.

 Always consider using a YANG-default statement instead.

 Modification of the initial-value is a non-backwards-compatible change.

 The argument specifies a single initial value for a leaf or leaf-list.

 The value MUST be part of the valuespace of the leaf/leaf-list.

 It follows the same rules as the argument of the default statement.";

 argument "initial-value";

 }

}

<CODE ENDS>

\*\*\* END OF CHANGE 2 \*\*\*