

TSG CORRESPONDENCE

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Mr. Christian Toche
3GPP SA5 Chairman
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Re: Issues Discovered in 3GPP SA5 R7 Specifications

Dear Mr. Toche,

We have a number of liaison topics.

1. It appears that the `systemDN` notification attribute in the 3GPP SA5 32.111-3 `notifyAlarmListRebuilt` and the 3GPP TS 32.663 notifications, are listed as optional but should be listed as mandatory, as in the other Release 7 notifications. Is this assumption correct?
2. Could you please explain why the 3GPP TS 32.353 Notify Heart Beat notification is not supported in the Notification Log?
3. A number of discrepancies have been discovered in Release 7 between the CORBA Solution Set (SS) notification definitions and the Notification Log notification definitions. It is our understanding that the intent of the Notification Log is that every notification that may be sent via a notification can be accessed via the Notification Log. (Please note that only the 3GPP SA5 specifications that have notifications and are used by 3GPP2 specifications were reviewed.)

Could 3GPP SA5 explain the suggested method for handling these discrepancies when building a Notification Log?

Specification	Notification	Attribute	Issue	Notes
32.111-5	Notify New Alarm	Threshold Info	Type Discrepancy	<code>armTime</code> is a string type in the CORBA SS and time type in the Notification Log. The CORBA SS says "May contain empty string"
32.111-5	Notify New Alarm	State Change Definition	Type Discrepancy	<code>oldValue</code> is required in the CORBA SS and optional in the Notification Log
32.111-5	Notify New Alarm	Monitored Attributes	Type Discrepancy	Any vendor specific type is supported in the CORBA SS and only XSD simple types in the Notification Log. It appears that vendor specific

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				types, similar to vsData, need to be supported.
32.111-5	Notify New Alarm	Additional Information	Type Discrepancy	Any vendor specific type is supported in the CORBA SS and only string type is supported in the Notification Log. It appears that vendor specific types, similar to vsData, need to be supported.
32.111-5	Notify New Security Alarm	Additional Information	Type Discrepancy	Any vendor specific type is supported in the CORBA SS and only string type is supported in the Notification Log. It appears that vendor specific types, similar to vsData, need to be supported.
32.111-5	Notify Cleared Alarm	Correlated Notifications	Attribute Discrepancy	Correlated Notifications is not supported in the CORBA SS but defined in the Notification Log
32.111-5	Notify Comments	Comments	Type Discrepancy	systemId is required in the CORBA SS and optional in the Notification Log
32.323	Notify Test Result	Test Invocation Id	Attribute Discrepancy	Test Invocation Id is not defined in the CORBA SS but defined in the Notification Log
32.323	Notify Test Result	Test Invocation Initiator	Optionality	Test Invocation Initiator is mandatory in the CORBA SS but optional in the Notification Log
32.323	Notify Test Result	MORT	Optionality	MORT is optional in the CORBA SS but mandatory in the Notification Log
32.323	Notify Test Result	Proposed Repair Actions	Type Discrepancy	Proposed Repair Actions is a string type in the CORBA SS and an any type in the Notification Log.
32.323	Notify Test Result	Additional Information	Type Discrepancy	Additional Information is a string type in the CORBA SS and any type in the Notification Log
32.335	Notify Log Subscribed	Log Subscription Id	Type Discrepancy	Log Subscription Id is a unsigned long type in the CORBA SS and string type in the Notification Log
32.335	Notify Log Subscribed	Logging End Time	Type Discrepancy	Logging End Time is a string type in the CORBA SS and time type in the Notification Log
32.335	Notify Log Unsubscribed	Log Subscription Id	Type Discrepancy	Log Subscription Id is a unsigned long type in the CORBA SS and string type in the Notification Log
32.335	Notify Occupancy Level Crossed	Log Subscription Id	Type Discrepancy	Log Subscription Id is a unsigned long type in the CORBA SS and string type in the Notification Log
32.335	Notify Occupancy Level Crossed	Log Full Action	Optionality	Log Full Action is mandatory in the CORBA SS but optional in the Notification Log
32.335	Notify Logging Resumed	Logging End Time	Attribute Discrepancy	Logging End Time is supported in the CORBA SS but not defined in the Notification Log
32.335	Notify Logging Resumed	Notification Categories	Attribute Discrepancy	Notification Categories is supported in the CORBA SS but not defined in the Notification Log
32.335	Notify Logging Resumed	Filter	Attribute Discrepancy	Filter is supported in the CORBA SS but not defined in the Notification Log
32.345	Notify File Ready	File Info List	Attribute Discrepancy	ManagementDataType is not supported in the CORBA SS but defined in the Notification Log, FileCompression is mandatory in the CORBA SS but optional in the Notification Log, File Format in the Notification Log does not include the file format version, FileLocation in the Notification Log does not include the directory and URL distinction
32.345	Notify File Preparation Error	File Info List	Attribute Discrepancy	ManagementDataType is not supported in the CORBA SS but defined in the Notification Log, FileCompression is mandatory in the CORBA SS but optional in the Notification Log, File Format in the Notification Log does not include the file format version, FileLocation in the Notification Log does not include the directory and URL distinction

Specification	Notification	Attribute	Issue	Notes
32.345	Notify File Preparation Error	File Info List	Optionality	File Info List is mandatory in the CORBA SS but optional in the Notification Log
32.345	Notify File Preparation Error	Reason	Attribute Discrepancy	Reason allows any string in the CORBA SS but only select list is supported in the Notification Log
32.365	Notify IRP Info Changed	Additional Text	Optionality	Additional Text is mandatory in the CORBA SS but optional in the Notification Log
32.415	Notify Measurement Job Status Changed	Job Id	Type Discrepancy	Job Id is a unsigned long type in the CORBA SS and string type in the Notification Log
32.415	Notify Threshold Monitor Object Creation	Monitor Id	Type Discrepancy	Monitor Id is a unsigned long type in the CORBA SS and string type in the Notification Log
32.415	Notify Threshold Monitor Object Creation	EventType	Attribute Discrepancy	EventType is not supported in the CORBA SS, but defined in the Notification Log
32.415	Notify Threshold Monitor Object Creation	Probable Cause	Attribute Discrepancy	Probable Cause is not supported in the CORBA SS, but defined in the Notification Log
32.415	Notify Threshold Monitor Object Creation	Specific Problem	Attribute Discrepancy	Specific Problem is not supported in the CORBA SS, but defined in the Notification Log
32.415	Notify Threshold Monitor Object Creation	Direction	Attribute Discrepancy	Direction is not supported in the CORBA SS, but defined in the Notification Log
32.415	Notify Threshold Monitor Status Changed	Monitor Id	Type Discrepancy	Monitor Id is a unsigned long type in the CORBA SS and string type in the Notification Log
32.415	Notify Threshold Monitor Object Deletion	Monitor Id	Type Discrepancy	Monitor Id is a unsigned long type in the CORBA SS and string type in the Notification Log
32.665	Notify Attribute Value Change	Attribute List	Optionality	Attribute List is mandatory in the CORBA SS but optional in the Notification Log
32.665	Notify CM Synchronization Recommended	Scope	Attribute Discrepancy	level is mandatory in the CORBA SS and optional in the Notification Log

4. Without specific examples for each notification type, it does not appear that the 3GPP TS 32.665 Notification Log notifications that use the “<any>” XSD construct can be written in a consistent non-proprietary way. Could 3GPP SA5 please supply a well formed XML Notification Log example that defines example NotifyObjectCreation, NotifyAttributeValueChange and NotifyStateChange notifications, each with multiple attributes (from different XSD definitions, if possible)?

As an example, is the following an acceptable example of a Notification Log containing a NotifyStateChange?:

```
<?xml version="1.0" encoding="UTF-8"?>
<notificationLog xmlns="http://www.3gpp.org/ftp/specs/archive/32_series/32.335#notificationLog"
xmlns:xe="http://www.3gpp.org/ftp/specs/archive/32_series/32.305#notification"
xmlns:sm="http://www.3gpp.org/ftp/specs/archive/32_series/32.675#stateManagementIRP"
xmlns:nk="http://www.3gpp.org/ftp/specs/archive/32_series/32.665#kernelNnt"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://www.3gpp.org/ftp/specs/archive/32_series/32.335#notificationLog
```

```

NotificationLog.xsd">
  <notificationLogHeader>
    <logFileVersion>32.335 V7.0</logFileVersion>
    <vendorName>Text</vendorName>
    <senderName>Text</senderName>
  </notificationLogHeader>
  <notificationLogRecords>
    <notificationLogRecord>
      <logRecordId/>
      <xe:Notification xsi:type="NotifyStateChange"
xmlns="http://www.3gpp.org/ftp/specs/archive/32_series/32.665#kernelNtf"
xsi:schemaLocation="http://www.3gpp.org/ftp/specs/archive/32_series/32.665#kernelNtf
kernelNtf">
        <xe:header>
          <xe:objectInstance>String</xe:objectInstance>
          <xe:notificationId>2147483647</xe:notificationId>
          <xe:eventTime>2001-12-17T09:30:47.0Z</xe:eventTime>
          <xe:systemDN>String</xe:systemDN>
          <xe:notificationType>String</xe:notificationType>
        </xe:header>
        <body>
          <nk:stateChangeList>
            <nk:StateChange>
              <sm:operationalState
xsi:type="sm:operationalStateType">disabled</sm:operationalState>
              <sm:operationalState>enabled</sm:operationalState>
            </nk:StateChange>
            <nk:StateChange>
              <sm:usageState>active</sm:usageState>
            </nk:StateChange>
          </nk:stateChangeList>
        </body>
      </xe:Notification>
    </notificationLogRecord>
  </notificationLogRecords>
</notificationLog>

```

5. In addition, it is not clear why the MOAttribute "name" component provided in the 3GPP TS 32.663 CORBA Solution Set is not provided in the 3GPP TS 32.665 Notification Log attribute lists.
6. Could 3GPP SA5 please supply any vendor specific attribute rules with 3GPP TS 32.665 so that the manager may recognize vendor-specific attributes returned via the Notification Log (and differentiate them from specification defined attributes)?
7. The utranNrm.xsd XSD document in 3GPP TS 32.645 v7.5.0 is not well formed.
8. The partialSuspensionOfItfN.xsd XSD document in 3GPP TS 32.385 v7.2.0 is not well formed.
9. The UtranNetworkResourcesNRMDefs.idl CORBA IDL file in 3GPP TS 32.643 v7.5.0 is not well formed.
10. The 3GPP SA5 32.335 v7.1.0 incorrectly is listed as Release 8 in its title.
11. The NL IRP XML Example Notification XML document in 3GPP TS 32.335 v7.1.0 is not well formed.
12. In 3GPP TS 32.623 v7.1.0, the IOC ManagedElement managedElementType attribute has an invalid Solution Set attribute type:
GenericNetworkResourcesIRPSystem::AttributeTypes::StringSet.
13. In 3GPP TS 32.623 v7.1.0, the IOC SubNetwork setOfMcc attribute has an invalid Solution Set attribute type:
GenericNetworkResourcesIRPSystem::AttributeTypes::StringSet.

