

TSG CORRESPONDENCE

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Mr. Christian Toche
3GPP SA5 Chairman
Huawei Technologies OSS Standards;
JinYu Road 450,
Pudong, Shanghai, 201206, P.R.C.
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Re: Issues Discovered in 3GPP SA5 R7 Specifications

Dear Mr. Toche,

We have a number of liaison topics.

1. Missing attributes in `imsNrm.xsd`

The `CamelImSsfAsFunction`, `SipAsFunction` and `HssFunction` XSD definitions in 3GPP SA5 R7 TS 32.735 are missing the `linkList` attribute. Note that current CR S5-080051 does not include corrections for `HssFunction`.

2. Missing containment in `imsNrm.xsd`

In `imsNrm.xsd` from 3GPP SA5 R7 TS 32.735, `im:AsFunctionOptionallyContainedNrmClass` defines a connection point for vendor defined classes that can be contained under `AsFunction` and classes subclassed from `AsFunction`. There are three classes that are subclassed from `AsFunction`: `CamelImSsfAsFunction`, `OsaScsAsFunction` and `SipAsFunction`. In the containment portion of the `CamelImSsfAsFunction`, `OsaScsAsFunction` and `SipAsFunction` definitions, the following line needs to be added to support this containment:

```
<element ref="im:AsFunctionOptionallyContainedNrmClass"/>
```

3. Incompatible namespace references

In 3GPP SA5 R7 32.615, the following namespace definition is used for repeater:

```
xmlns:rn=
"http://www.3gpp.org/ftp/specs/archive/32_series/32.725#repeaterNrm
```

In 3GPP SA5 R7 32.725, the following namespace definition is used for repeater:

```
xmlns:rn=
"http://www.3gpp.org/ftp/specs/archive/32_series/32.722#repeaterNrm
```

These two definitions must match each other. It is suggested that 3GPP SA5 R7 32.725 be updated to reference 32.725 instead of 32.722, as is the XSD document convention. Without this change, configData.xsd is not well formed, which affects all Bulk CM XSDs.

4. Sample Notification Log XML File is not well formed

The sample Notification Log XML file in 3GPP SA5 from 3GPP SA5 R7 32.335 is not well formed. The following issues were discovered:

1. In NotifyNewSecurityAlarm, the serviceUser, serviceProvider, securityAlarmDetector and alarmId parameters must be before the correlatedNotifications parameter.
2. In NotifyNewAlarm, the `xsi:schemaLocation="http://www.3gpp.org/ftp/specs/archive/32_series/32.111-5#alarmIRPNotif alarmIRPNotif.XSD"` part is invalid. You only specify this if the particular notification is different from the previous notification.
3. In NotifyNewAlarm, the alarmId parameter must be before the specificProblem parameter.
4. In NotifyAckStateChanged, the `xsi:schemaLocation="http://www.3gpp.org/ftp/specs/archive/32_series/32.111-5#alarmIRPNotif alarmIRPNotif.XSD"` part is invalid.
5. In NotifyAlarmListRebuilt, the `xsi:schemaLocation="http://www.3gpp.org/ftp/specs/archive/32_series/32.111-5#alarmIRPNotif alarmIRPNotif.XSD"` part is invalid.
6. In NotifyChangedAlarm, the `xsi:schemaLocation="http://www.3gpp.org/ftp/specs/archive/32_series/32.111-5#alarmIRPNotif alarmIRPNotif.XSD"` part is invalid.
7. In NotifyClearedAlarm, the `xsi:schemaLocation="http://www.3gpp.org/ftp/specs/archive/32_series/32.111-5#alarmIRPNotif alarmIRPNotif.XSD"` part is invalid.
8. In NotifyClearedAlarm, the alarmId parameter must be before the correlatedNotifications parameter.
9. In NotifyComments, the `xsi:schemaLocation="http://www.3gpp.org/ftp/specs/archive/32_series/32.111-5#alarmIRPNotif alarmIRPNotif.XSD"` part is invalid.
10. In NotifyPotentialFaultyAlarmList, the `xsi:schemaLocation="http://www.3gpp.org/ftp/specs/archive/32_series/32.111-5#alarmIRPNotif alarmIRPNotif.XSD"` part is invalid.

11. The sample version number, listed as V6.2, should be V7.0 (or after a CR, V7.1).

The sample notification log file that has been inserted into the 3GPP2 TSG-S WG5 Revision D specification (that corresponds with your 3GPP SA5 R7) has been attached.

Please note that 3GPP2 TSG-S WG5 membership is no longer maintaining membership in 3GPP SA5. 3GPP2 TSG-S WG5 has to rely on 3GPP SA5 membership to correct these R7 issues.

If you have additional questions, please contact: Randy Scheer (rjscheer@alcatel-lucent.com) +1 614 367 4942.

Regards,



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	Ms. Victora Bosserman	3GPP2 Senior Manager	vbosserman@tiaonline.org

Attachment 1 – Updated 3GPP SA5 R7 3GPP TS 335 Notification Log Example

Updated 3GPP SA5 TS 32.335 Notification Log Example

This provides an XML example set of notifications, demonstrating the use of the 3GPP TS 32.335 Notification Log IRP XML Notification Format. This example makes use of the Alarm IRP XML Schema for Notification and the PM IRP XML Schema for Notification.

```
<?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: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>1001</logRecordId>
      <xe:Notification xsi:type="NotifyNewSecurityAlarm"
        xmlns="http://www.3gpp.org/ftp/specs/archive/32_series/32.111-5#alarmIRPNotif"
        xsi:schemaLocation="http://www.3gpp.org/ftp/specs/archive/32_series/32.111-5#alarmIRPNotif
alarmIRPNotif.xsd">
        <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>
          <probableCause>Indeterminate</probableCause>
          <perceivedSeverity>Critical</perceivedSeverity>
          <alarmType>Communications Alarm</alarmType>
          <serviceUser>String</serviceUser>
          <serviceProvider>String</serviceProvider>
          <securityAlarmDetector>String</securityAlarmDetector>
          <alarmId>String</alarmId>
          <correlatedNotifications>
            <correlatedNotification>
              <source>String</source>
              <notificationIdSet>
                <notificationId>2147483647</notificationId>
              </notificationIdSet>
            </correlatedNotification>
          </correlatedNotifications>
          <additionalText>String</additionalText>
          <additionalInformation>String</additionalInformation>
        </body>
      </xe:Notification>
    </notificationLogRecord>
    <notificationLogRecord>
      <logRecordId>String</logRecordId>
      <xe:Notification xsi:type="NotifyNewAlarm"
        xmlns="http://www.3gpp.org/ftp/specs/archive/32_series/32.111-5#alarmIRPNotif">
        <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>
          <probableCause>Indeterminate</probableCause>
          <perceivedSeverity>Critical</perceivedSeverity>
          <alarmType>Communications Alarm</alarmType>
          <alarmId>String</alarmId>
          <specificProblem>String</specificProblem>
          <correlatedNotifications>
            <correlatedNotification>
```

```

        <source>String</source>
        <notificationIdSet>
            <notificationId>2147483647</notificationId>
        </notificationIdSet>
    </correlatedNotification>
</correlatedNotifications>
<backedUpStatus>true</backedUpStatus>
<backupObject>String</backupObject>
<trendIndication>Less Severe</trendIndication>
<thresholdInfo>
    <attributeId>String</attributeId>
    <observedValue>3.14159E0</observedValue>
    <thresholdLevel>
        <indication>Up</indication>
        <low>3.14159E0</low>
        <high>3.14159E0</high>
    </thresholdLevel>
    <armTime>2001-12-17T09:30:47.0Z</armTime>
</thresholdInfo>
<stateChangeDefinition>
    <stateValueChange>
        <attributeName>Administrative State</attributeName>
        <oldValue>
            <administrativeState>locked</administrativeState>
        </oldValue>
        <newValue>
            <administrativeState>unlocked</administrativeState>
        </newValue>
    </stateValueChange>
    <stateValueChange>
        <attributeName>Usage State</attributeName>
        <oldValue>
            <usageState>idle</usageState>
        </oldValue>
        <newValue>
            <usageState>busy</usageState>
        </newValue>
    </stateValueChange>
</stateChangeDefinition>
<monitoredAttributes>
    <attributeValue>
        <attributeName>String</attributeName>
        <attributeValue>Text</attributeValue>
    </attributeValue>
</monitoredAttributes>
<proposedRepairActions>String</proposedRepairActions>
<additionalText>String</additionalText>
<additionalInformation>String</additionalInformation>
</body>
</xe:Notification>
</notificationLogRecord>
<notificationLogRecord>
    <logRecordId/>
    <xe:Notification xsi:type="NotifyAckStateChanged"
xmlns="http://www.3gpp.org/ftp/specs/archive/32_series/32.111-5#alarmIRPNotif">
        <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>
            <probableCause>Indeterminate</probableCause>
            <perceivedSeverity>Critical</perceivedSeverity>
            <alarmType>Communications Alarm</alarmType>
            <alarmId>String</alarmId>
            <ackState>Acknowledged</ackState>
            <ackUserId>String</ackUserId>
            <ackSystemId>String</ackSystemId>
        </body>
    </xe:Notification>
</notificationLogRecord>

```

```

<notificationLogRecord>
  <logRecordId/>
  <xe:Notification xsi:type="NotifyAlarmListRebuilt"
xmlns="http://www.3gpp.org/ftp/specs/archive/32_series/32.111-5#alarmIRPNotif">
    <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>
      <reason>
        <predefined>Agent NE Communications Error</predefined>
      </reason>
      <alarmListAlignmentRequirement>Alignment Required</alarmListAlignmentRequirement>
    </body>
  </xe:Notification>
</notificationLogRecord>
<notificationLogRecord>
  <logRecordId/>
  <xe:Notification xsi:type="NotifyChangedAlarm"
xmlns="http://www.3gpp.org/ftp/specs/archive/32_series/32.111-5#alarmIRPNotif">
    <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>
      <probableCause>Indeterminate</probableCause>
      <perceivedSeverity>Critical</perceivedSeverity>
      <alarmType>Communications Alarm</alarmType>
      <alarmId>String</alarmId>
    </body>
  </xe:Notification>
</notificationLogRecord>
<notificationLogRecord>
  <logRecordId/>
  <xe:Notification xsi:type="NotifyClearedAlarm"
xmlns="http://www.3gpp.org/ftp/specs/archive/32_series/32.111-5#alarmIRPNotif">
    <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>
      <probableCause>Indeterminate</probableCause>
      <perceivedSeverity>Critical</perceivedSeverity>
      <alarmType>Communications Alarm</alarmType>
      <alarmId>String</alarmId>
      <correlatedNotifications>
        <correlatedNotification>
          <source>String</source>
          <notificationIdSet>
            <notificationId>2147483647</notificationId>
            <notificationId>2147483647</notificationId>
          </notificationIdSet>
        </correlatedNotification>
        <correlatedNotification>
          <source>String</source>
          <notificationIdSet>
            <notificationId>2147483647</notificationId>
            <notificationId>2147483647</notificationId>
          </notificationIdSet>
        </correlatedNotification>
      </correlatedNotifications>
      <clearUserId>String</clearUserId>
      <clearSystemId>String</clearSystemId>
    </body>
  </xe:Notification>
</notificationLogRecord>

```

```

        </xe:Notification>
      </notificationLogRecord>
    </notificationLogRecord>
    <logRecordId/>
    <xe:Notification xsi:type="NotifyComments"
xmlns="http://www.3gpp.org/ftp/specs/archive/32_series/32.111-5#alarmIRPNotif">
      <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>
        <alarmType>Communications Alarm</alarmType>
        <probableCause>Indeterminate</probableCause>
        <perceivedSeverity>Critical</perceivedSeverity>
        <comments>
          <comment>
            <commentDate>2001-12-17T09:30:47.0Z</commentDate>
            <commentText>String</commentText>
            <userId>String</userId>
            <systemId>String</systemId>
          </comment>
        </comments>
        <alarmId>String</alarmId>
      </body>
    </xe:Notification>
  </notificationLogRecord>
</notificationLogRecord>
<logRecordId/>
<xe:Notification xsi:type="NotifyPotentialFaultyAlarmList"
xmlns="http://www.3gpp.org/ftp/specs/archive/32_series/32.111-5#alarmIRPNotif">
  <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>
    <reason>
      <predefined>Agent NE Communications Error</predefined>
    </reason>
  </body>
</xe:Notification>
</notificationLogRecord>
</notificationLogRecord>
<logRecordId/>
<xe:Notification xsi:type="NotifyThresholdMonitorStatusChanged"
xmlns="http://www.3gpp.org/ftp/specs/archive/32_series/32.415#pMIRPNotif"
xsi:schemaLocation="http://www.3gpp.org/ftp/specs/archive/32_series/32.415#pMIRPNotif
pMIRPNotifxsd">
  <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>
    <MonitorId>String</MonitorId>
    <MonitorStatus>Active</MonitorStatus>
    <Reason>
      <Reason>ResumeThresholdMonitor</Reason>
    </Reason>
  </body>
</xe:Notification>
</notificationLogRecord>
</notificationLogRecords>
</notificationLog>

```