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Technical Specification

**Universal Mobile Telecommunications System (UMTS);
LTE;
Telecommunication management;
Software management Integration Reference Point (IRP)
(3GPP TS 32.535 version 9.1.0 Release 9)**

Reference
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Foreword

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Contents

Foreword

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where:

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y   the second digit is incremented for all changes of substance, i.e. technical enhancements, corrections, updates, etc.

z   the third digit is incremented when editorial only changes have been incorporated in the document.

Introduction

The present document is part of a TS-family covering the 3rd Generation Partnership Project: Technical Specification Group Services and System Aspects; Telecommunication management; as identified below:

32.531   Telecommunication management; Software management; Concepts and Integration Reference Point (IRP) Requirements

32.532   Telecommunication management; Software management Integration Reference Point (IRP); Information Service (IS)

32.533   Telecommunication management; Software management Integration Reference Point (IRP); Common Object Request Broker Architecture (CORBA) Solution Set (SS)

32.535   Telecommunication management; Software management Integration Reference Point (IRP); eXtensible Markup Language (XML) definitions

Software Management, in general, provides the operator with the ability to manage effectively the software entities residing in the 3G network. Software Management function is useful especially when there is a need to manage a large number of software residing in the managed elements widely distributed geographically. The main focus is the management of new software releases and correction patches [1].

The software management operations are initiated by the operator or by functions in the Operations Systems (OSs) either on single NE or across several NEs of the 3G network.

1 Scope

The present document provides the XML file format definition for the Software Management Integration Reference Point (IRP) IS [3] V9.2.X.

The present document specifies the XML Definitions for the Software Management Integration Reference Point (IRP) as it applies to Itf-N, in accordance with Software Management IRP IS definitions [3] as well as Notification Log IRP XML Definitions [4].

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.

- For a specific reference, subsequent revisions do not apply.

- For a non-specific reference, the latest version applies. In the case of a reference to a 3GPP document (including a GSM document), a non-specific reference implicitly refers to the latest version of that document *in the same Release as the present document*.

[1]   3GPP TS 32.101: 'Telecommunication management; Principles and high level requirements'.

[2]   3GPP TS 32.102: 'Telecommunication management; Architecture'.

[3]   3GPP TS 32.532: 'Telecommunication management; Software management Integration Reference Point (IRP); Information Service (IS)'

[4]   3GPP TS 32.335: 'Telecommunication management; Notification Log (NL) Integration Reference Point (IRP): eXtensible Markup Language (XML) solution definitions'.

[5]   3GPP TS 32.331: 'Telecommunication management; Notification Log (NL) Integration Reference Point (IRP): Requirements'.

3 Definitions and abbreviations

3.1 Definitions

For the purposes of the present document, the terms and definitions given in 3GPP TS 32.101 [1], 3GPP TS 32.102 [2], and 3GPP TS 32.331 [5] apply.

3.2 Abbreviations

For the purposes of the present document, the following abbreviations apply:

|	
IRP	Integration Reference Point
IS	Information Service
NL	Notification Log
NRM	Network Resource Model
SwM	Software Management
UML	Unified Modelling Language
XML	eXtensible Markup Language

4 Software Management IRP XML Definitions
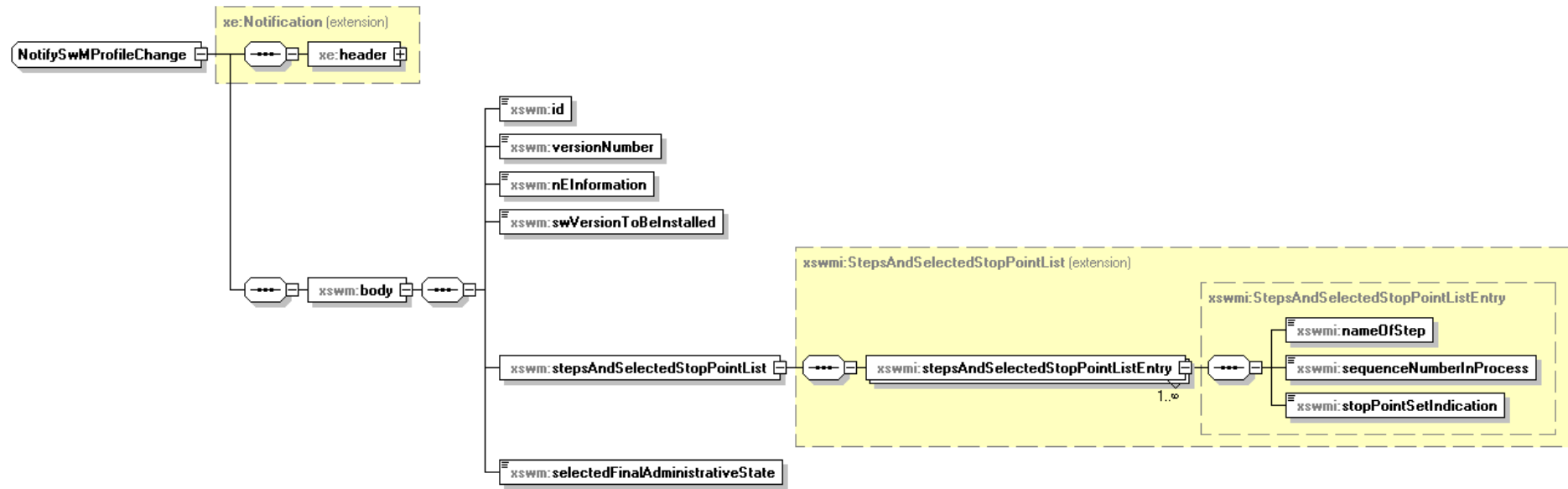
4.1 Software Management IRP XML Definitions

This section provides XML definitions of Software Management IRP IOCs and notifications as defined in [3].
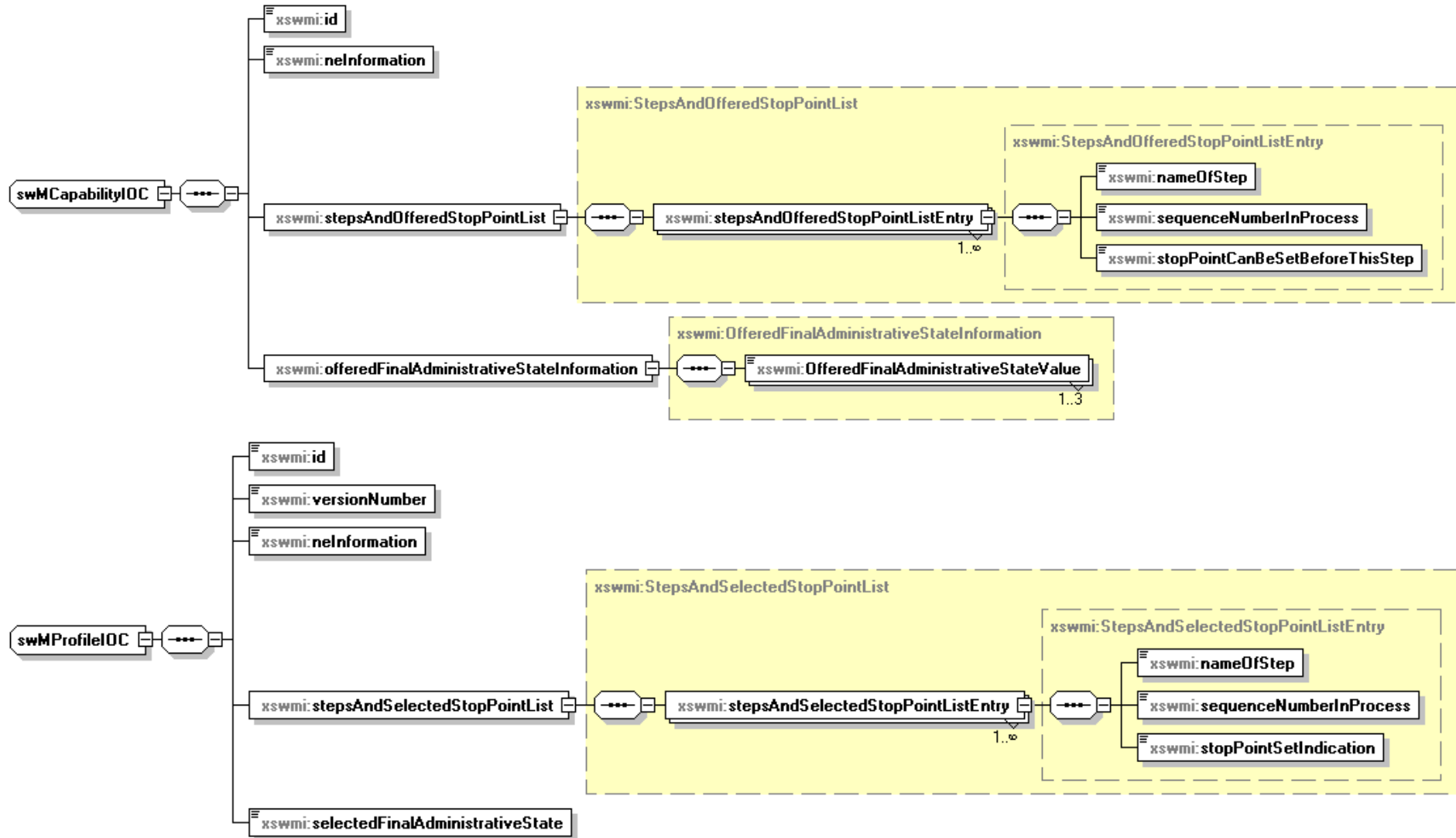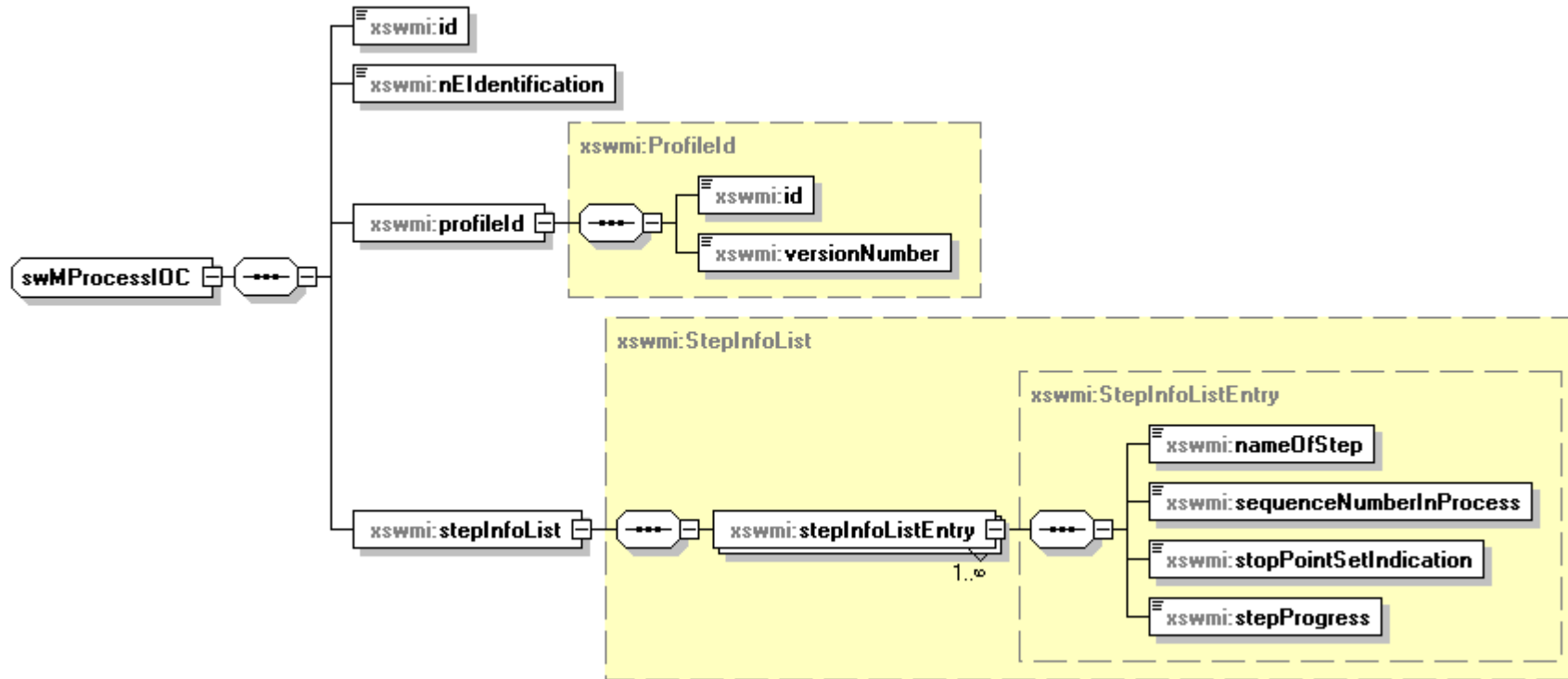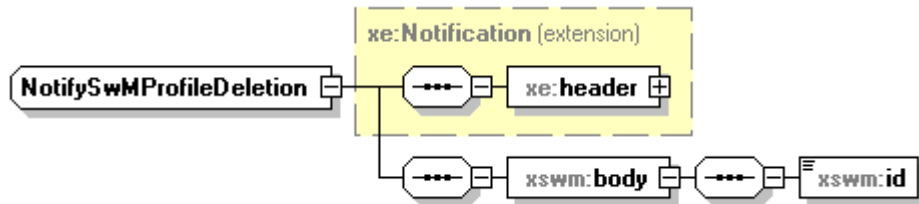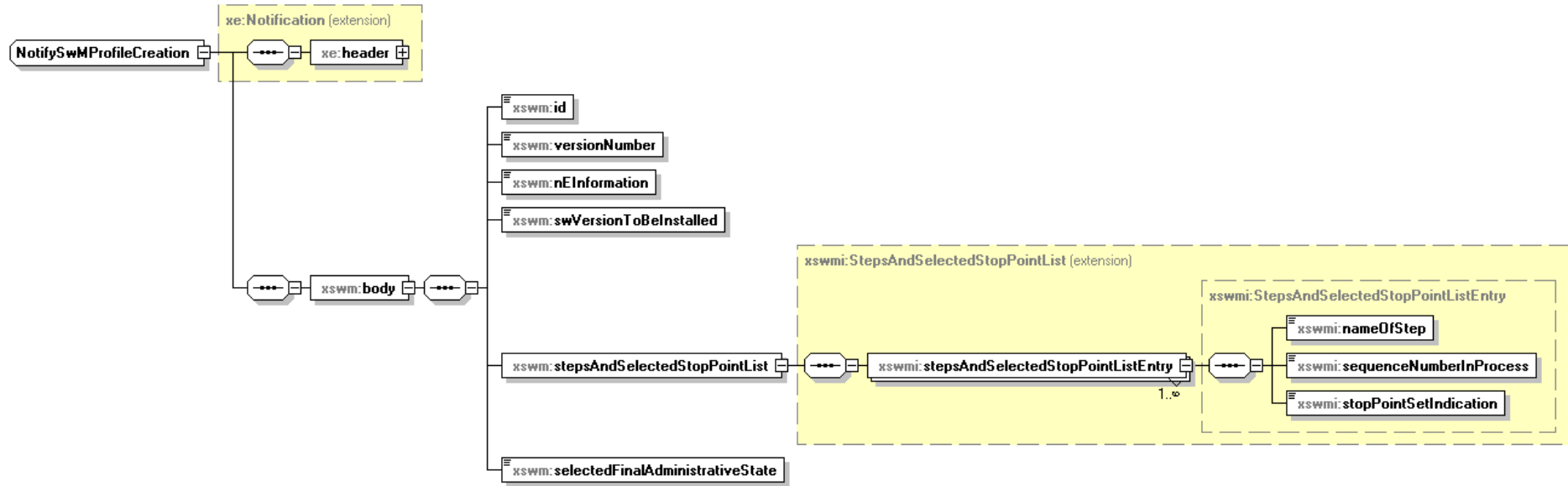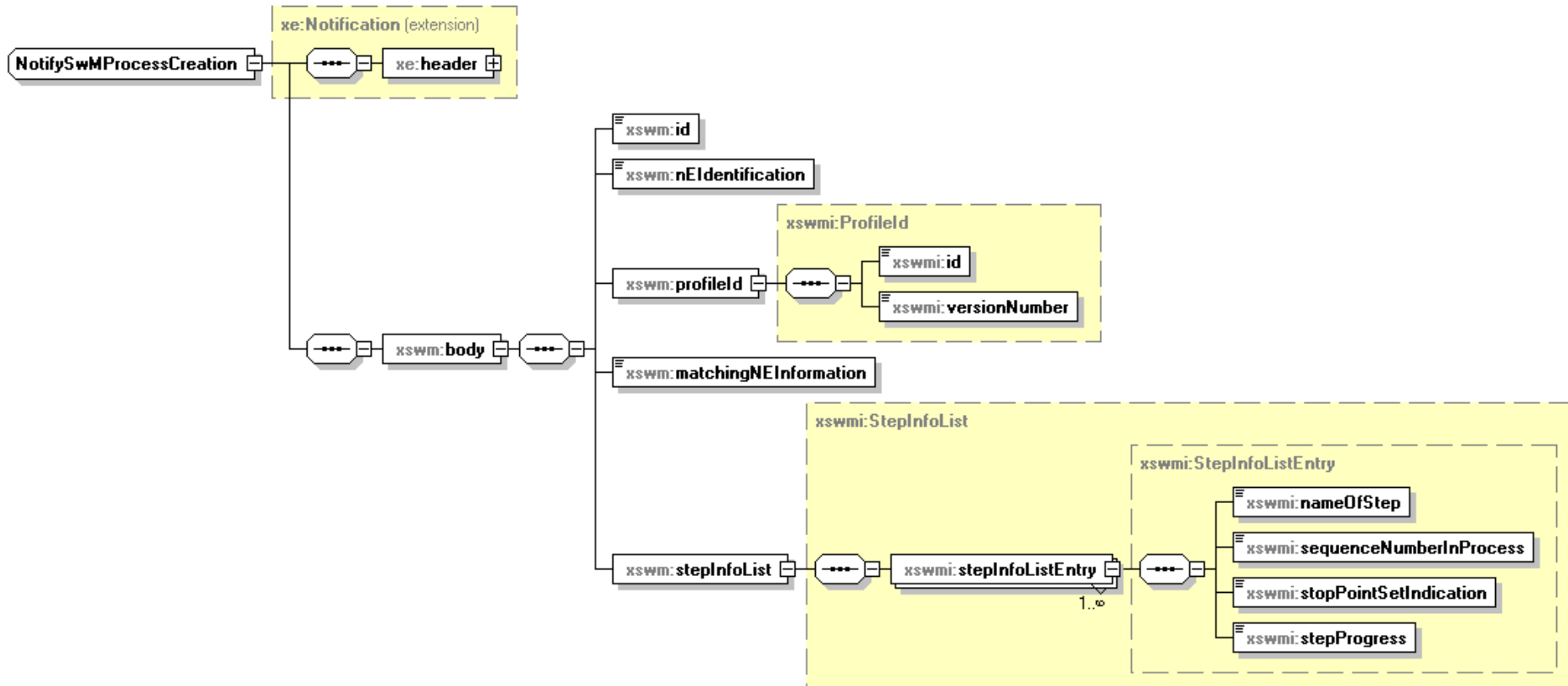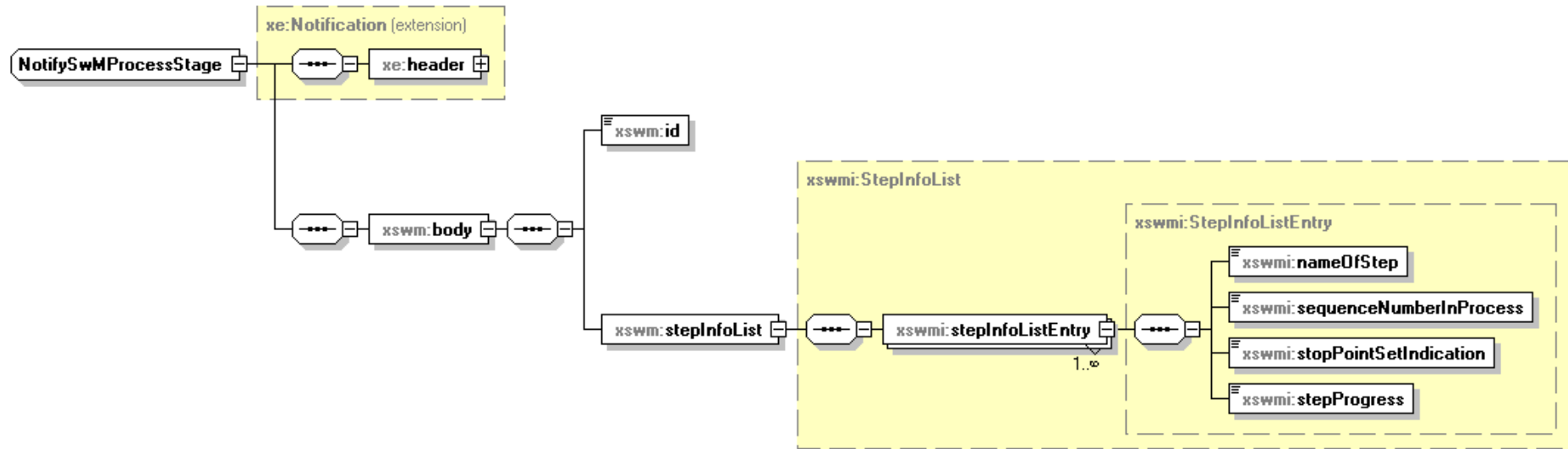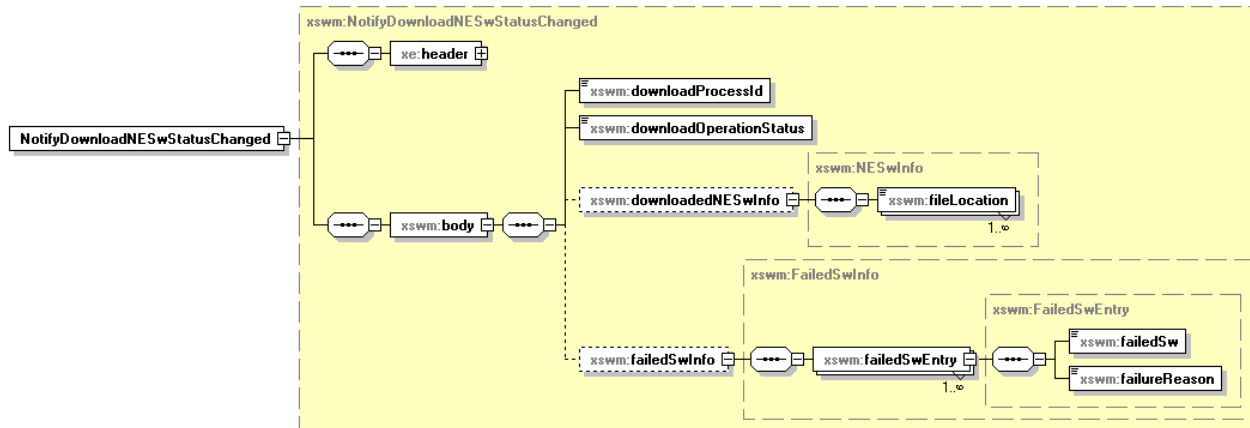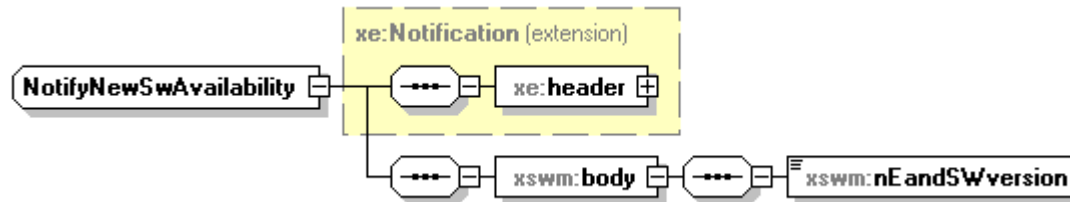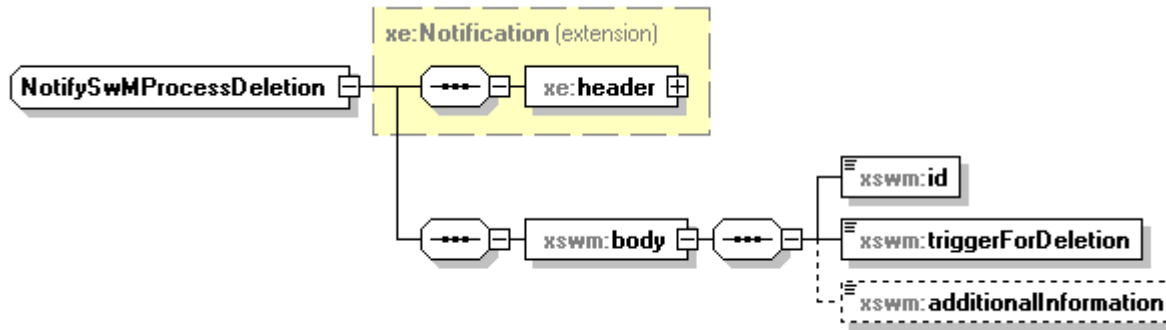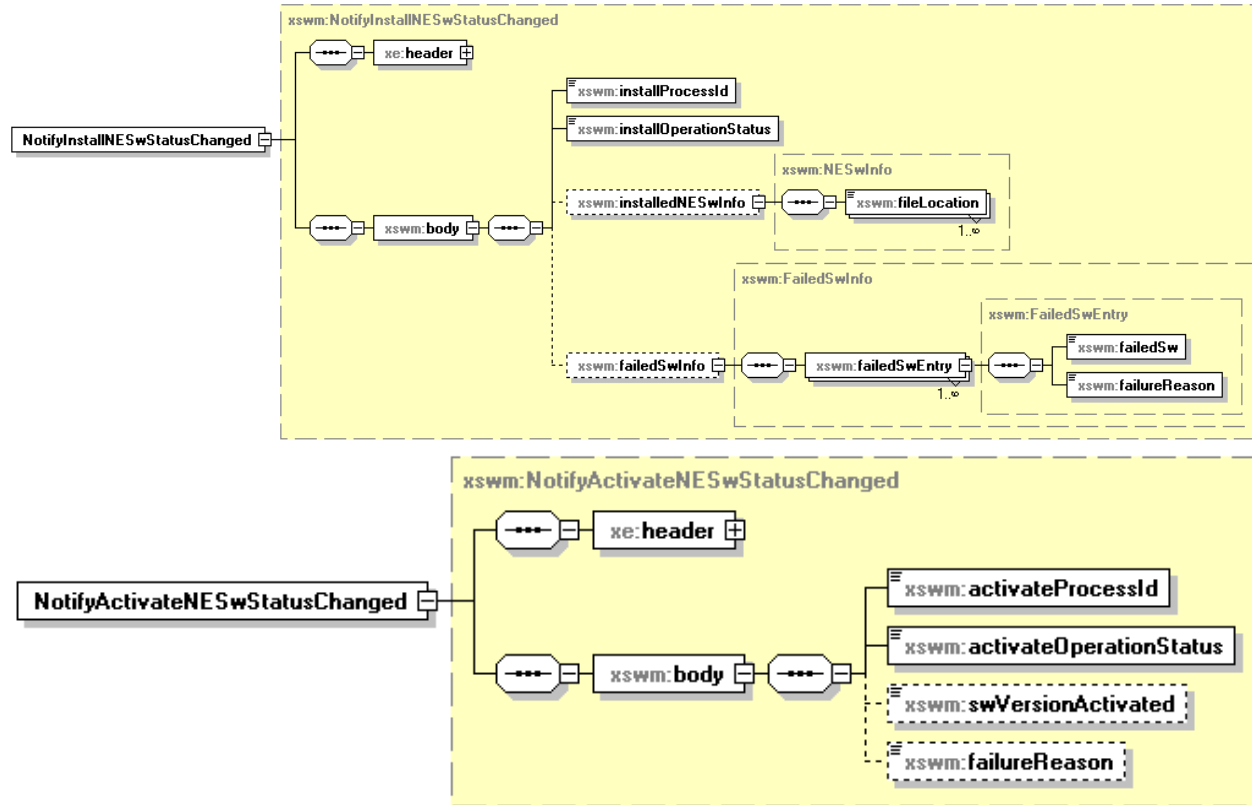
4.2 XML Schema for Software Management IRP Notifications (file name 'swManagementIRPNotif.xsd')

```
<?xml version="1.0" encoding="UTF-8"?>
<schema xmlns="http://www.w3.org/2001/XMLSchema" xmlns:xe="http://www.3gpp.org/ftp/specs/archive/32_series/32.305#notification"
xmlns:xswm="http://www.3gpp.org/ftp/specs/archive/32_series/32.535#swManagementIRPNotif"
xmlns:xswmi="http://www.3gpp.org/ftp/specs/archive/32_series/32.535#swManagementIRPIOCs"
targetNamespace="http://www.3gpp.org/ftp/specs/archive/32_series/32.535#swManagementIRPNotif" elementFormDefault="qualified"
attributeFormDefault="unqualified">
   <import namespace="http://www.3gpp.org/ftp/specs/archive/32_series/32.305#notification"/>
   <import namespace="http://www.3gpp.org/ftp/specs/archive/32_series/32.535#swManagementIRPIOCs"/>
   <simpleType name="SwVersionToBeInstalledConditional">
      <restriction base="string"/>
   </simpleType>
   <complexType name="OfferedFinalAdministrativeStateInformation">
      <sequence>
         <element name="OfferedFinalAdministrativeStateValue" type="xswmi:FinalAdministrativeStateValue" maxOccurs="3"/>
      </sequence>
   </complexType>
   <simpleType name="TriggerForDeletion">
      <restriction base="string">
         <enumeration value="IRP_AGENT_TERMINATION"/>
         <enumeration value="IRP_MANAGER_TERMINATION"/>
         <enumeration value="AUTOMATED_SWM_SUCCESFULLY_CONCLUDED"/>
         <enumeration value="SELF_CONFIGURATION_SUCCESFULLY_CONCLUDED"/>
      </restriction>
   </simpleType>
   <simpleType name="RequestID">
      <restriction base="unsignedLong"/>
   </simpleType>
   <simpleType name="DownloadNESwOperationStatus">
      <restriction base="string">
         <enumeration value="NE_SWDOWNLOAD_SUCCESSFUL"/>
         <enumeration value="NE_SWDOWNLOAD_FAILED"/>
         <enumeration value="NE_SWDOWNLOAD_PARTIALLY_SUCCESSFUL"/>
      </restriction>
   </simpleType>
   <simpleType name="FileLocation">
      <restriction base="string"/>
   </simpleType>
   <complexType name="NESwInfo">
      <sequence>
         <element name="fileLocation" type="xswm:FileLocation" maxOccurs="unbounded"/>
      </sequence>
   </complexType>
   <complexType name="FailedSwEntry">
      <sequence>
         <element name="failedSw" type="xswm:FileLocation"/>
         <element name="failureReason" type="xswm:FailureReason"/>
      </sequence>
   </complexType>
```

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```
<complexType name="FailedSwInfo">
    <sequence>
        <element name="failedSwEntry" type="xswm:FailedSwEntry" maxOccurs="unbounded"/>
    </sequence>
</complexType>
<simpleType name="FailureReason">
    <restriction base="string"/>
</simpleType>
<simpleType name="InstallNESwOperationStatus">
    <restriction base="string">
        <enumeration value="NE_SW_INSTALLATION_SUCCESSFUL"/>
        <enumeration value="NE_SW_INSTALLATION_FAILED"/>
        <enumeration value="NE_SWINSTALLATION_PARTIALLY_SUCCESSFUL"/>
    </restriction>
</simpleType>
<simpleType name="ActivateNESwOperationStatus">
    <restriction base="string">
        <enumeration value="NE_SW_ACTIVATION_SUCCESSFUL"/>
        <enumeration value="NE_SW_ACTIVATION_FAILED"/>
        <enumeration value="NE_SWACTIVATION_PARTIALLY_SUCCESSFUL"/>
    </restriction>
</simpleType>
<complexType name="NotifySwMProfileChange">
    <complexContent>
        <extension base="xe:Notification">
            <sequence>
                <element name="body">
                    <complexType>
                        <sequence>
                            <element name="id" type="xswmi:Id"/>
                            <element name="versionNumber" type="xswmi:VersionNumber"/>
                            <element name="nEInformation" type="xswmi:NEInformation"/>
                            <element name="swVersionToBeInstalled" type="xswm:SwVersionToBeInstalledConditional"/>
                            <element name="stepsAndSelectedStopPointList">
                                <complexType>
                                    <complexContent>
                                        <extension base="xswmi:StepsAndSelectedStopPointList"/>
                                    </complexContent>
                                </complexType>
                            </element>
                            <element name="selectedFinalAdministrativeState" type="xswmi:FinalAdministrativeStateValue"/>
                        </sequence>
                    </complexType>
                </element>
            </sequence>
        </extension>
    </complexContent>
</complexType>
<complexType name="NotifyNewSwAvailability">
    <complexContent>
        <extension base="xe:Notification">
            <sequence>
                <element name="body">
                    <complexType>
```

```
                          <sequence>
                              <element name="nEandSWversion" type="string"/>
                          </sequence>
                      </complexType>
                  </element>
              </sequence>
          </extension>
      </complexContent>
  </complexType>
  <complexType name="NotifySwMProcessDeletion">
      <complexContent>
          <extension base="xe:Notification">
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                  <element name="body">
                      <complexType>
                          <sequence>
                              <element name="id" type="xswmi:Id"/>
                              <element name="triggerForDeletion" type="xswm:TriggerForDeletion"/>
                              <element name="additionalInformation" type="string" minOccurs="0"/>
                          </sequence>
                      </complexType>
                  </element>
              </sequence>
          </extension>
      </complexContent>
  </complexType>
  <complexType name="NotifySwMProcessStage">
      <complexContent>
          <extension base="xe:Notification">
              <sequence>
                  <element name="body">
                      <complexType>
                          <sequence>
                              <element name="id" type="xswmi:Id"/>
                              <element name="stepInfoList" type="xswmi:StepInfoList"/>
                          </sequence>
                      </complexType>
                  </element>
              </sequence>
          </extension>
      </complexContent>
  </complexType>
  <complexType name="NotifySwMProcessCreation">
      <complexContent>
          <extension base="xe:Notification">
              <sequence>
                  <element name="body">
                      <complexType>
                          <sequence>
                              <element name="id" type="xswmi:Id"/>
                              <element name="nEIdentification" type="xswmi:Id"/>
                              <element name="profileId" type="xswmi:ProfileId"/>
                              <element name="matchingNEInformation" type="xswmi:NEInformation"/>
                              <element name="stepInfoList" type="xswmi:StepInfoList"/>
```

```
                        </sequence>
                    </complexType>
                </element>
            </sequence>
        </extension>
    </complexContent>
</complexType>
<complexType name="NotifySwMProfileDeletion">
    <complexContent>
        <extension base="xe:Notification">
            <sequence>
                <element name="body">
                    <complexType>
                        <sequence>
                            <element name="id" type="xswmi:Id"/>
                        </sequence>
                    </complexType>
                </element>
            </sequence>
        </extension>
    </complexContent>
</complexType>
<complexType name="NotifySwMProfileCreation">
    <complexContent>
        <extension base="xe:Notification">
            <sequence>
                <element name="body">
                    <complexType>
                        <sequence>
                            <element name="id" type="xswmi:Id"/>
                            <element name="versionNumber" type="xswmi:VersionNumber"/>
                            <element name="nEInformation" type="xswmi:NEInformation"/>
                            <element name="swVersionToBeInstalled" type="xswm:SwVersionToBeInstalledConditional"/>
                            <element name="stepsAndSelectedStopPointList">
                                <complexType>
                                    <complexContent>
                                        <extension base="xswmi:StepsAndSelectedStopPointList"/>
                                    </complexContent>
                                </complexType>
                            </element>
                            <element name="selectedFinalAdministrativeState" type="xswmi:FinalAdministrativeStateValue"/>
                        </sequence>
                    </complexType>
                </element>
            </sequence>
        </extension>
    </complexContent>
</complexType>
<complexType name="NotifyDownloadNESwStatusChanged">
    <complexContent>
        <extension base="xe:Notification">
            <sequence>
                <element name="body">
                    <complexType>
```

```
                            <sequence>
                                <element name="downloadProcessId" type="xswm:RequestID"/>
                                <element name="downloadOperationStatus" type="xswm:DownloadNESwOperationStatus"/>
                                <element name="downloadedNESwInfo" type="xswm:NESwInfo" minOccurs="0"/>
                                <element name="failedSwInfo" type="xswm:FailedSwInfo" minOccurs="0"/>
                            </sequence>
                        </complexType>
                    </element>
                </sequence>
            </extension>
        </complexContent>
    </complexType>
    <complexType name="NotifyInstallNESwStatusChanged">
        <complexContent>
            <extension base="xe:Notification">
                <sequence>
                    <element name="body">
                        <complexType>
                            <sequence>
                                <element name="installProcessId" type="xswm:RequestID"/>
                                <element name="installOperationStatus" type="xswm:InstallNESwOperationStatus"/>
                                <element name="installedNESwInfo" type="xswm:NESwInfo" minOccurs="0"/>
                                <element name="failedSwInfo" type="xswm:FailedSwInfo" minOccurs="0"/>
                            </sequence>
                        </complexType>
                    </element>
                </sequence>
            </extension>
        </complexContent>
    </complexType>
    <complexType name="NotifyActivateNESwStatusChanged">
        <complexContent>
            <extension base="xe:Notification">
                <sequence>
                    <element name="body">
                        <complexType>
                            <sequence>
                                <element name="activateProcessId" type="xswm:RequestID"/>
                                <element name="activateOperationStatus" type="xswm:ActivateNESwOperationStatus"/>
                                <element name="swVersionActivated" type="string" minOccurs="0"/>
                                <element name="failureReason" type="xswm:FailureReason" minOccurs="0"/>
                            </sequence>
                        </complexType>
                    </element>
                </sequence>
            </extension>
        </complexContent>
    </complexType>
    <element name="NotifySwMProfileCreation" type="xswm:NotifySwMProfileCreation"/>
    <element name="NotifySwMProfileDeletion" type="xswm:NotifySwMProfileDeletion"/>
    <element name="NotifySwMProcessCreation" type="xswm:NotifySwMProcessCreation"/>
    <element name="NotifySwMProcessStage" type="xswm:NotifySwMProcessStage"/>
    <element name="NotifySwMProcessDeletion" type="xswm:NotifySwMProcessDeletion"/>
    <element name="NotifyNewSwAvailability" type="xswm:NotifyNewSwAvailability"/>
```

```
    <element name="NotifySwMProfileChange" type="xswm:NotifySwMProfileChange"/>
    <element name="NotifyDownloadNESwStatusChanged" type="xswm:NotifyDownloadNESwStatusChanged"/>
    <element name="NotifyActivateNESwStatusChanged" type="xswm:NotifyActivateNESwStatusChanged"/>
    <element name="NotifyInstallNESwStatusChanged" type="xswm:NotifyInstallNESwStatusChanged"/>
</schema>
```

4.3 XML Schema for Software Management IRP IOCs (file name 'swManagementIRPIOCs.xsd')

```xml
<?xml version="1.0" encoding="UTF-8"?>
<schema xmlns="http://www.w3.org/2001/XMLSchema" xmlns:xswmi="http://www.3gpp.org/ftp/specs/archive/32_series/32.535#swManagementIRPIOCs"
xmlns:xn="http://www.3gpp.org/ftp/specs/archive/32_series/32.625#genericNrm"
targetNamespace="http://www.3gpp.org/ftp/specs/archive/32_series/32.535#swManagementIRPIOCs" elementFormDefault="qualified"
attributeFormDefault="unqualified">
   <import namespace="http://www.3gpp.org/ftp/specs/archive/32_series/32.625#genericNrm" schemaLocation="genericNrm.xsd"/>
   <simpleType name="NEInformation">
      <restriction base="string"/>
   </simpleType>
   <simpleType name="Id">
      <restriction base="xn:dn"/>
   </simpleType>
   <simpleType name="VersionNumber">
      <restriction base="unsignedShort"/>
   </simpleType>
   <complexType name="ProfileId">
      <sequence>
         <element name="id" type="xswmi:Id"/>
         <element name="versionNumber" type="xswmi:VersionNumber"/>
      </sequence>
   </complexType>
   <simpleType name="FinalAdministrativeStateValue">
      <restriction base="string">
         <enumeration value="LOCKED"/>
         <enumeration value="UNLOCKED"/>
         <enumeration value="DETERMINED_BY_CONFIGURATION_DATA"/>
      </restriction>
   </simpleType>
   <complexType name="OfferedFinalAdministrativeStateInformation">
      <sequence>
         <element name="OfferedFinalAdministrativeStateValue" type="xswmi:FinalAdministrativeStateValue" maxOccurs="3"/>
      </sequence>
   </complexType>
   <complexType name="StepsAndOfferedStopPointListEntry">
      <sequence>
         <element name="nameOfStep" type="xswmi:NameOfStep"/>
         <element name="sequenceNumberInProcess" type="xswmi:SequenceNumberInProcess"/>
         <element name="stopPointCanBeSetBeforeThisStep" type="xswmi:StopPointCanBeSetBeforeThisStep"/>
      </sequence>
   </complexType>
   <complexType name="StepsAndOfferedStopPointList">
      <sequence>
         <element name="stepsAndOfferedStopPointListEntry" type="xswmi:StepsAndOfferedStopPointListEntry" maxOccurs="unbounded"/>
      </sequence>
   </complexType>
   <simpleType name="StopPointCanBeSetBeforeThisStep">
      <restriction base="boolean"/>
   </simpleType>
```

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```
<complexType name="StepsAndSelectedStopPointListEntry">
   <sequence>
      <element name="nameOfStep" type="xswmi:NameOfStep"/>
      <element name="sequenceNumberInProcess" type="xswmi:SequenceNumberInProcess"/>
      <element name="stopPointSetIndication" type="xswmi:StopPointSetIndication"/>
   </sequence>
</complexType>
<complexType name="StepsAndSelectedStopPointList">
   <sequence>
      <element name="stepsAndSelectedStopPointListEntry" type="xswmi:StepsAndSelectedStopPointListEntry" maxOccurs="unbounded"/>
   </sequence>
</complexType>
<simpleType name="StopPointSetIndication">
   <restriction base="string">
      <enumeration value="STOP_POINT_IS_SET_BEFORE_THIS_STEP"/>
      <enumeration value="STOP_POINT_IS_NOT_SET"/>
   </restriction>
</simpleType>
<simpleType name="SequenceNumberInProcess">
   <restriction base="unsignedShort"/>
</simpleType>
<simpleType name="NameOfStep">
   <restriction base="string">
      <enumeration value="SW_DOWNLOAD"/>
      <enumeration value="SW_INSTALLATION"/>
      <enumeration value="SW_ACTIVATION"/>
      <enumeration value="PREPARE_BASIC_CONFIGURATION_AND_OAMLINK"/>
      <enumeration value="RETRIEVE_CONFIGURATION_DATA"/>
      <enumeration value="SETUP_PRECONFIGURED_SIGNALLING_LINKS"/>
      <enumeration value="SET_FINAL_STATE_OF_NE "/>
   </restriction>
</simpleType>
<simpleType name="StepProgress">
   <restriction base="string">
      <enumeration value="NOT_YET_STARTED"/>
      <enumeration value="RUNNING"/>
      <enumeration value="COMPLETED"/>
      <enumeration value="AWAITING_RESUME"/>
      <enumeration value="FAILURE"/>
      <enumeration value="TERMINATED"/>
   </restriction>
</simpleType>
<complexType name="StepInfoListEntry">
   <sequence>
      <element name="nameOfStep" type="xswmi:NameOfStep"/>
      <element name="sequenceNumberInProcess" type="xswmi:SequenceNumberInProcess"/>
      <element name="stopPointSetIndication" type="xswmi:StopPointSetIndication"/>
      <element name="stepProgress" type="xswmi:StepProgress"/>
   </sequence>
</complexType>
<complexType name="StepInfoList">
   <sequence>
      <element name="stepInfoListEntry" type="xswmi:StepInfoListEntry" maxOccurs="unbounded"/>
   </sequence>
```

```
        </complexType>
        <complexType name="swMCapabilityIOC">
            <sequence>
                <element name="id" type="xswmi:Id"/>
                <element name="neInformation" type="xswmi:NEInformation"/>
                <element name="stepsAndOfferedStopPointList" type="xswmi:StepsAndOfferedStopPointList"/>
                <element name="offeredFinalAdministrativeStateInformation" type="xswmi:OfferedFinalAdministrativeStateInformation"/>
            </sequence>
        </complexType>
        <complexType name="swMProfileIOC">
            <sequence>
                <element name="id" type="xswmi:Id"/>
                <element name="versionNumber" type="xswmi:VersionNumber"/>
                <element name="neInformation" type="xswmi:NEInformation"/>
                <element name="stepsAndSelectedStopPointList" type="xswmi:StepsAndSelectedStopPointList"/>
                <element name="selectedFinalAdministrativeState" type="xswmi:FinalAdministrativeStateValue"/>
            </sequence>
        </complexType>
        <complexType name="swMProcessIOC">
            <sequence>
                <element name="id" type="xswmi:Id"/>
                <element name="nEIdentification" type="xswmi:NEInformation"/>
                <element name="profileId" type="xswmi:ProfileId"/>
                <element name="stepInfoList" type="xswmi:StepInfoList"/>
            </sequence>
        </complexType>
</schema>
```

Annex A (informative):
Void

Annex B (informative):
Change history

<table>
<tr><th colspan="9">Change history</th></tr>
<tr><th>Date</th><th>TSG #</th><th>TSG Doc.</th><th>CR</th><th>R</th><th>Subject/Comment</th><th>Cat</th><th>Old</th><th>New</th></tr>
<tr><td>Dec 2009</td><td>SA#46</td><td>SP-090736</td><td>--</td><td>--</td><td>Presentation to SA for Information and Approval</td><td>--</td><td>--</td><td>1.0.0</td></tr>
<tr><td>Dec 2009</td><td>--</td><td>--</td><td>--</td><td>--</td><td>Publication</td><td>--</td><td>1.0.0</td><td>8.0.0</td></tr>
<tr><td>Dec 2009</td><td>-</td><td>-</td><td>-</td><td>-</td><td>Update to Rel-9 version</td><td>--</td><td>8.0.0</td><td>9.0.0</td></tr>
<tr><td>Mar 2010</td><td>SA#47</td><td>SP-100035</td><td>0001</td><td>-</td><td>Discontinue from Rel-9 onwards the XML schema extraction and storage</td><td>F</td><td>9.0.0</td><td>9.1.0</td></tr>
<tr><td>Mar 2010</td><td>SA#47</td><td>SP-100035</td><td>0002</td><td>-</td><td>To add XML solution set for Non Automated Software Management notifications</td><td>F</td><td>9.0.0</td><td>9.1.0</td></tr>
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History

Document history		
V9.0.0	February 2010	Publication
V9.1.0	April 2010	Publication