**3GPP TSG-CT WG1 Meeting #131-eC1-21abcd**

**E-meeting, 19-27 August 2021 *was* C1-214669**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **24.379** | **CR** | **0734** | **rev** | **1** | **Current version:** | **17.3.1** |  |
|  | | | | | | | | |
| *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 | **X** | Radio Access Network |  | Core Network |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | MCPTT - Define undeclared XML element(s) of location & mbms usage in XML schema | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Samsung | | | | | | | | | |
| ***Source to TSG:*** | C1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | MCProtoc16 | | | | |  | ***Date:*** | | | 11-08-2021 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **A** |  | | | | | ***Release:*** | | | Rel-17 |
|  | *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 can be 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-15 (Release 15) Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | A number of elements described under the <anyEXT> element   * in subclause F.2.3 xml semantics do not appear in the schema in subclause F.2.2 for MCPTT location information. * in subclause F.3.3 xml semantics do not appear in the schema in subclause F.3.2 for MBMS usage information.   Without the defination of xml elements the validation of XML schema is not possible and without the defination and namespace its hard to develop test case by RAN5. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | All <anyEXT> elements sematics are described   * in the subclause F.3.3 are defined in the schema in subclause F.3.2. * in the subclause F.2.3 are defined in the schema in subclause F.2.2. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Creates confusion in implementation and developing test cases by RAN5 for specific format declaration of all elements in the mcptt-loc and mbms-usage schema. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | F.2.2, F.3.2 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | | Rev1: For mbms-defaultMuSiK-download and mbms-explicitMuSiK-download elements   1. any namespace and any attribute support added 2. maxOccurs included 3. minOccurs value is set to 1 group element for mbms-explicitMuSiK-download element   mbms-defaultMuSiK-downloadType and mbms-explicitMuSiK-downloadType renamed to mbms-default-ctrlkey-downloadType and mbms-explicit-ctrlkey-downloadType respectively. | | | | | | | | |

## F.2.2 XML schema

<?xml version="1.0" encoding="UTF-8"?>

<xs:schema attributeFormDefault="unqualified" elementFormDefault="qualified"

xmlns:xs="http://www.w3.org/2001/XMLSchema"

targetNamespace="urn:3gpp:ns:mcpttMbmsUsage:1.0"

xmlns:mcpttmbms="urn:3gpp:ns:mcpttMbmsUsage:1.0">

<!-- the root element -->

<xs:element name="mcptt-mbms-usage-info" type="mcpttmbms:mcptt-mbms-usage-info-Type" id="mbms"/>

<xs:complexType name="mcptt-mbms-usage-info-Type">

<xs:sequence>

<xs:element name="mbms-listening-status" type="mcpttmbms:mbms-listening-statusType"   
 minOccurs="0"/>

<xs:element name="mbms-suspension-status" type="mcpttmbms:mbms-suspension-statusType"   
 minOccurs="0"/>

<xs:element name="announcement" type="mcpttmbms:announcementTypeParams" minOccurs="0"/>

<xs:element name="version" type="xs:integer"/>

<xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>

<xs:element name="anyExt" type="mcpttmbms:anyExtType" minOccurs="0"/>

</xs:sequence>

<xs:anyAttribute namespace="##any" processContents="lax"/>

</xs:complexType>

<xs:complexType name="mbms-listening-statusType">

<xs:sequence>

<xs:element name="mbms-listening-status" type="xs:string"/>

<xs:element name="session-id" type="xs:anyURI" minOccurs="0"/>

<xs:element name="general-purpose" type="xs:boolean" minOccurs="0"/>

<xs:element name="TMGI" type="xs:hexBinary" maxOccurs="unbounded"/>

<xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>

<xs:element name="anyExt" type="mcpttmbms:anyExtType" minOccurs="0"/>

</xs:sequence>

<xs:anyAttribute namespace="##any" processContents="lax"/>

</xs:complexType>

<xs:complexType name="mbms-suspension-statusType">

<xs:sequence>

<xs:element name="mbms-suspension-status" type="xs:string" minOccurs="0" maxOccurs="1"/>

<xs:element name="number-of-reported-bearers" type="xs:integer" minOccurs="0" maxOccurs="1"/>

<xs:element name="suspended-TMGI" type="xs:hexBinary" minOccurs="0"/>

<xs:element name="other-TMGI" type="xs:hexBinary" minOccurs="0" maxOccurs="unbounded"/>

<xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>

<xs:element name="anyExt" type="mcpttmbms:anyExtType" minOccurs="0"/>

</xs:sequence>

<xs:anyAttribute namespace="##any" processContents="lax"/>

</xs:complexType>

<xs:complexType name="announcementTypeParams">

<xs:sequence>

<xs:element name="TMGI" type="xs:hexBinary" minOccurs="1"/>

<xs:element name="QCI" type="xs:integer" minOccurs="0"/>

<xs:element name="frequency" type="xs:unsignedLong" minOccurs="0"/>

<xs:element name="mbms-service-areas" type="mcpttmbms:mbms-service-areasType" minOccurs="0"/>

<xs:element name="GPMS" type="xs:positiveInteger" minOccurs="0"/>

<xs:element name="report-suspension" type="xs:boolean" minOccurs="0" maxOccurs="1"/>

<xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>

<xs:element name="anyExt" type="mcpttmbms:anyExtType" minOccurs="0"/>

</xs:sequence>

<xs:anyAttribute namespace="##any" processContents="lax"/>

</xs:complexType>

<!-- anyEXT elements for the announcement element – begin -->

<xs:element name="mcptt-mbms-rohc" type="mcpttmbms:emptyType"/>

<!-- empty complex type -->

<xs:complexType name="emptyType"/>

<xs:element name="max-cid" type="mcpttmbms:max-cidType"/>

<xs:simpleType name="max-cidType">

<xs:restriction base="xs:integer">

<xs:minInclusive value="1"/>

<xs:maxInclusive value="16383"/>

</xs:restriction>

</xs:simpleType>

<!-- anyEXT elements for the announcement element – end -->

<xs:complexType name="mbms-service-areasType">

<xs:sequence>

<xs:element name="mbms-service-area-id" type="xs:hexBinary"  
 minOccurs="1" maxOccurs="unbounded"/>

<xs:element name="anyExt" type="mcpttmbms:anyExtType" minOccurs="0"/>

</xs:sequence>

<xs:anyAttribute/>

</xs:complexType>

<xs:complexType name="anyExtType">

<xs:sequence>

<xs:any namespace="##any" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>

</xs:sequence>

</xs:complexType>

<!-- anyEXT element – begin -->

<xs:element name="mbms-defaultMuSiK-download" type="mcpttmbms:mbms-default-ctrlkey-downloadType"/>

<xs:complexType name="mbms-default-ctrlkey-downloadType">

<xs:sequence>

<xs:element name="group" type="xs:anyURI"  
 minOccurs="0" maxOccurs="unbounded"/>

<xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>

<xs:element name="anyExt" type="mcpttmbms:anyExtType" minOccurs="0"/>

</xs:sequence>

<xs:anyAttribute namespace="##any" processContents="lax"/>

</xs:complexType>

<xs:element name="mbms-explicitMuSiK-download" type="mcpttmbms:mbms-explicit-ctrlkey-downloadType"/>

<xs:complexType name="mbms-explicit-ctrlkey-downloadType">

<xs:sequence>

<xs:element name="group" type="xs:anyURI"  
 minOccurs="1" maxOccurs="unbounded"/>

<xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>

<xs:element name="anyExt" type="mcpttmbms:anyExtType" minOccurs="0"/>

</xs:sequence>

<xs:anyAttribute namespace="##any" processContents="lax"/>

</xs:complexType>

<!-- anyEXT element – end -->

</xs:schema>

## F.3.2 XML schema

<?xml version="1.0" encoding="UTF-8"?>

<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:mcpttloc="urn:3gpp:ns:mcpttLocationInfo:1.0" targetNamespace="urn:3gpp:ns:mcpttLocationInfo:1.0" elementFormDefault="qualified" attributeFormDefault="unqualified"

xmlns:xenc="http://www.w3.org/2001/04/xmlenc#">

<xs:import namespace="http://www.w3.org/2001/04/xmlenc#"/>

<xs:element name="location-info" id="loc">

<xs:annotation>

<xs:documentation>Root element, contains all information related to location configuration, location request and location reporting for the MCPTT service</xs:documentation>

</xs:annotation>

<xs:complexType>

<xs:choice>

<xs:element name="Configuration" type="mcpttloc:tConfigurationType"/>

<xs:element name="Request" type="mcpttloc:tRequestType"/>

<xs:element name="Report" type="mcpttloc:tReportType"/>

<xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>

<xs:element name="anyExt" type="mcpttloc:anyExtType" minOccurs="0"/>

</xs:choice>

<xs:anyAttribute namespace="##any" processContents="lax"/>

</xs:complexType>

</xs:element>

<xs:complexType name="tConfigurationType">

<xs:sequence>

<xs:element name="NonEmergencyLocationInformation" type="mcpttloc:tRequestedLocationType" minOccurs="0"/>

<xs:element name="EmergencyLocationInformation" type="mcpttloc:tRequestedLocationType" minOccurs="0"/>

<xs:element name="TriggeringCriteria" type="mcpttloc:TriggeringCriteriaType"/>

<xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>

<xs:element name="anyExt" type="mcpttloc:anyExtType" minOccurs="0"/>

</xs:sequence>

<xs:attribute name="ConfigScope">

<xs:simpleType>

<xs:restriction base="xs:string">

<xs:enumeration value="Full"/>

<xs:enumeration value="Update"/>

</xs:restriction>

</xs:simpleType>

</xs:attribute>

<xs:anyAttribute namespace="##any" processContents="lax"/>

</xs:complexType>

<xs:complexType name="tRequestType">

<xs:complexContent>

<xs:extension base="mcpttloc:tEmptyType">

<xs:attribute name="RequestId" type="xs:string" use="required"/>

</xs:extension>

</xs:complexContent>

</xs:complexType>

<xs:complexType name="tReportType">

<xs:sequence>

<xs:element name="TriggerId" type="xs:string" minOccurs="0" maxOccurs="unbounded"/>

<xs:element name="CurrentLocation" type="mcpttloc:tCurrentLocationType"/>

<xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>

<xs:element name="anyExt" type="mcpttloc:anyExtType" minOccurs="0"/>

</xs:sequence>

<xs:attribute name="ReportID" type="xs:string" use="optional"/>

<xs:attribute name="ReportType" use="required">

<xs:simpleType>

<xs:restriction base="xs:string">

<xs:enumeration value="Emergency"/>

<xs:enumeration value="NonEmergency"/>

</xs:restriction>

</xs:simpleType>

</xs:attribute>

<xs:anyAttribute namespace="##any" processContents="lax"/>

</xs:complexType>

<xs:complexType name="TriggeringCriteriaType">

<xs:sequence>

<xs:element name="CellChange" type="mcpttloc:tCellChange" minOccurs="0"/>

<xs:element name="TrackingAreaChange" type="mcpttloc:tTrackingAreaChangeType" minOccurs="0"/>

<xs:element name="PlmnChange" type="mcpttloc:tPlmnChangeType" minOccurs="0"/>

<xs:element name="MbmsSaChange" type="mcpttloc:tMbmsSaChangeType" minOccurs="0"/>

<xs:element name="MbsfnAreaChange" type="mcpttloc:tMbsfnAreaChangeType" minOccurs="0"/>

<xs:element name="PeriodicReport" type="mcpttloc:tIntegerAttributeType" minOccurs="0"/>

<xs:element name="TravelledDistance" type="mcpttloc:tIntegerAttributeType" minOccurs="0"/>

<xs:element name="McpttSignallingEvent" type="mcpttloc:tSignallingEventType" minOccurs="0"/>

<xs:element name="GeographicalAreaChange" type="mcpttloc:tGeographicalAreaChange"/>

<xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>

<xs:element name="anyExt" type="mcpttloc:anyExtType" minOccurs="0"/>

</xs:sequence>

<xs:anyAttribute namespace="##any" processContents="lax"/>

</xs:complexType>

<xs:complexType name="tCellChange">

<xs:sequence>

<xs:element name="AnyCellChange" type="mcpttloc:tEmptyTypeAttribute" minOccurs="0"/>

<xs:element name="EnterSpecificCell" type="mcpttloc:tSpecificCellType" minOccurs="0" maxOccurs="unbounded"/>

<xs:element name="ExitSpecificCell" type="mcpttloc:tSpecificCellType" minOccurs="0" maxOccurs="unbounded"/>

<xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>

<xs:element name="anyExt" type="mcpttloc:anyExtType" minOccurs="0"/>

</xs:sequence>

<xs:anyAttribute namespace="##any" processContents="lax"/>

</xs:complexType>

<xs:complexType name="tEmptyType"/>

<xs:simpleType name="tEcgi">

<xs:restriction base="xs:string">

<xs:pattern value="\d{3}\d{3}[0-1]{28}"/>

</xs:restriction>

</xs:simpleType>

<xs:complexType name="tSpecificCellType">

<xs:simpleContent>

<xs:extension base="mcpttloc:tEcgi">

<xs:attribute name="TriggerId" type="xs:string" use="required"/>

</xs:extension>

</xs:simpleContent>

</xs:complexType>

<xs:complexType name="tEmptyTypeAttribute">

<xs:complexContent>

<xs:extension base="mcpttloc:tEmptyType">

<xs:attribute name="TriggerId" type="xs:string" use="required"/>

</xs:extension>

</xs:complexContent>

</xs:complexType>

<xs:complexType name="tTrackingAreaChangeType">

<xs:sequence>

<xs:element name="AnyTrackingAreaChange" type="mcpttloc:tEmptyTypeAttribute" minOccurs="0"/>

<xs:element name="EnterSpecificTrackingArea" type="mcpttloc:tTrackingAreaIdentity" minOccurs="0" maxOccurs="unbounded"/>

<xs:element name="ExitSpecificTrackingArea" type="mcpttloc:tTrackingAreaIdentity" minOccurs="0" maxOccurs="unbounded"/>

<xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>

<xs:element name="anyExt" type="mcpttloc:anyExtType" minOccurs="0"/>

</xs:sequence>

<xs:anyAttribute namespace="##any" processContents="lax"/>

</xs:complexType>

<xs:simpleType name="tTrackingAreaIdentityFormat">

<xs:restriction base="xs:string">

<xs:pattern value="\d{3}\d{3}[0-1]{16}"/>

</xs:restriction>

</xs:simpleType>

<xs:complexType name="tTrackingAreaIdentity">

<xs:simpleContent>

<xs:extension base="mcpttloc:tTrackingAreaIdentityFormat">

<xs:attribute name="TriggerId" type="xs:string" use="required"/>

</xs:extension>

</xs:simpleContent>

</xs:complexType>

<xs:complexType name="tPlmnChangeType">

<xs:sequence>

<xs:element name="AnyPlmnChange" type="mcpttloc:tEmptyTypeAttribute" minOccurs="0"/>

<xs:element name="EnterSpecificPlmn" type="mcpttloc:tPlmnIdentity" minOccurs="0" maxOccurs="unbounded"/>

<xs:element name="ExitSpecificPlmn" type="mcpttloc:tPlmnIdentity" minOccurs="0" maxOccurs="unbounded"/>

<xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>

<xs:element name="anyExt" type="mcpttloc:anyExtType" minOccurs="0"/>

</xs:sequence>

<xs:anyAttribute namespace="##any" processContents="lax"/>

</xs:complexType>

<xs:simpleType name="tPlmnIdentityFormat">

<xs:restriction base="xs:string">

<xs:pattern value="\d{3}\d{3}"/>

</xs:restriction>

</xs:simpleType>

<xs:complexType name="tPlmnIdentity">

<xs:simpleContent>

<xs:extension base="mcpttloc:tPlmnIdentityFormat">

<xs:attribute name="TriggerId" type="xs:string" use="required"/>

</xs:extension>

</xs:simpleContent>

</xs:complexType>

<xs:complexType name="tMbmsSaChangeType">

<xs:sequence>

<xs:element name="AnyMbmsSaChange" type="mcpttloc:tEmptyTypeAttribute" minOccurs="0"/>

<xs:element name="EnterSpecificMbmsSa" type="mcpttloc:tMbmsSaIdentity" minOccurs="0"/>

<xs:element name="ExitSpecificMbmsSa" type="mcpttloc:tMbmsSaIdentity" minOccurs="0"/>

<xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>

<xs:element name="anyExt" type="mcpttloc:anyExtType" minOccurs="0"/>

</xs:sequence>

<xs:anyAttribute namespace="##any" processContents="lax"/>

</xs:complexType>

<xs:simpleType name="tMbmsSaIdentityFormat">

<xs:restriction base="xs:integer">

<xs:minInclusive value="0"/>

<xs:maxInclusive value="65535"/>

</xs:restriction>

</xs:simpleType>

<xs:complexType name="tMbmsSaIdentity">

<xs:simpleContent>

<xs:extension base="mcpttloc:tMbmsSaIdentityFormat">

<xs:attribute name="TriggerId" type="xs:string" use="required"/>

</xs:extension>

</xs:simpleContent>

</xs:complexType>

<xs:complexType name="tMbsfnAreaChangeType">

<xs:sequence>

<xs:element name="EnterSpecificMbsfnArea" type="mcpttloc:tMbsfnAreaIdentity" minOccurs="0"/>

<xs:element name="ExitSpecificMbsfnArea" type="mcpttloc:tMbsfnAreaIdentity" minOccurs="0"/>

<xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>

<xs:element name="anyExt" type="mcpttloc:anyExtType" minOccurs="0"/>

</xs:sequence>

<xs:anyAttribute namespace="##any" processContents="lax"/>

</xs:complexType>

<xs:simpleType name="tMbsfnAreaIdentityFormat">

<xs:restriction base="xs:integer">

<xs:minInclusive value="0"/>

<xs:maxInclusive value="255"/>

</xs:restriction>

</xs:simpleType>

<xs:complexType name="tMbsfnAreaIdentity">

<xs:simpleContent>

<xs:extension base="mcpttloc:tMbsfnAreaIdentityFormat">

<xs:attribute name="TriggerId" type="xs:string" use="required"/>

</xs:extension>

</xs:simpleContent>

</xs:complexType>

<xs:complexType name="tIntegerAttributeType">

<xs:simpleContent>

<xs:extension base="xs:integer">

<xs:attribute name="TriggerId" type="xs:string" use="required"/>

</xs:extension>

</xs:simpleContent>

</xs:complexType>

<xs:complexType name="tTravelledDistanceType">

<xs:sequence>

<xs:element name="TravelledDistance" type="xs:positiveInteger"/>

<xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>

<xs:element name="anyExt" type="mcpttloc:anyExtType" minOccurs="0"/>

</xs:sequence>

<xs:anyAttribute namespace="##any" processContents="lax"/>

</xs:complexType>

<xs:complexType name="tSignallingEventType">

<xs:sequence>

<xs:element name="InitialLogOn" type="mcpttloc:tEmptyTypeAttribute" minOccurs="0"/>

<xs:element name="GroupCallNonEmergency" type="mcpttloc:tEmptyTypeAttribute" minOccurs="0"/>

<xs:element name="PrivateCallNonEmergency" type="mcpttloc:tEmptyTypeAttribute" minOccurs="0"/>

<xs:element name="LocationConfigurationReceived" type="mcpttloc:tEmptyTypeAttribute" minOccurs="0"/>

<xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>

<xs:element name="anyExt" type="mcpttloc:anyExtType" minOccurs="0"/>

</xs:sequence>

<xs:anyAttribute namespace="##any" processContents="lax"/>

</xs:complexType>

<xs:complexType name="tEmergencyEventType">

<xs:sequence>

<xs:element name="GroupCallEmergency" type="mcpttloc:tEmptyTypeAttribute" minOccurs="0"/>

<xs:element name="GroupCallImminentPeril" type="mcpttloc:tEmptyTypeAttribute" minOccurs="0"/>

<xs:element name="PrivateCallEmergency" type="mcpttloc:tEmptyTypeAttribute" minOccurs="0"/>

<xs:element name="InitiateEmergencyAlert" type="mcpttloc:tEmptyTypeAttribute" minOccurs="0"/>

<xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>

<xs:element name="anyExt" type="mcpttloc:anyExtType" minOccurs="0"/>

</xs:sequence>

<xs:anyAttribute namespace="##any" processContents="lax"/>

</xs:complexType>

<xs:complexType name="tRequestedLocationType">

<xs:sequence>

<xs:element name="ServingEcgi" type="mcpttloc:tEmptyType" minOccurs="0"/>

<xs:element name="NeighbouringEcgi" type="mcpttloc:tEmptyType" minOccurs="0" maxOccurs="unbounded"/>

<xs:element name="MbmsSaId" type="mcpttloc:tEmptyType" minOccurs="0"/>

<xs:element name="MbsfnArea" type="mcpttloc:tEmptyType" minOccurs="0"/>

<xs:element name="GeographicalCoordinate" type="mcpttloc:tEmptyType" minOccurs="0"/>

<xs:element name="minimumIntervalLength" type="xs:positiveInteger"/>

<xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>

<xs:element name="anyExt" type="mcpttloc:anyExtType" minOccurs="0"/>

</xs:sequence>

<xs:anyAttribute namespace="##any" processContents="lax"/>

</xs:complexType>

<xs:complexType name="tCurrentLocationType">

<xs:sequence>

<xs:element name="CurrentServingEcgi" type="mcpttloc:tLocationType" minOccurs="0"/>

<xs:element name="NeighbouringEcgi" type="mcpttloc:tLocationType" minOccurs="0" maxOccurs="unbounded"/>

<xs:element name="MbmsSaId" type="mcpttloc:tLocationType" minOccurs="0"/>

<xs:element name="MbsfnArea" type="mcpttloc:tLocationType" minOccurs="0"/>

<xs:element name="CurrentCoordinate" type="mcpttloc:tPointCoordinate" minOccurs="0"/>

<xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>

<xs:element name="anyExt" type="mcpttloc:anyExtType" minOccurs="0"/>

</xs:sequence>

<xs:anyAttribute namespace="##any" processContents="lax"/>

</xs:complexType>

<!-- anyExt elements for "tCurrentLocationType" -->

<xs:element name="locTimestamp" type="xs:dateTime"/>

<xs:simpleType name="protectionType">

<xs:restriction base="xs:string">

<xs:enumeration value="Normal"/>

<xs:enumeration value="Encrypted"/>

</xs:restriction>

</xs:simpleType>

<xs:complexType name="tLocationType">

<xs:choice minOccurs="1" maxOccurs="1">

<xs:element name="Ecgi" type="mcpttloc:tEcgi" minOccurs="0"/>

<xs:element name="SaId" type="mcpttloc:tMbmsSaIdentity" minOccurs="0"/>

<xs:element name="MbsfnAreaId" type="mcpttloc:tMbsfnAreaIdentity" minOccurs="0"/>

<xs:any namespace="##other" processContents="lax"/>

<xs:element name="anyExt" type="mcpttloc:anyExtType" minOccurs="0"/>

</xs:choice>

<xs:attribute name="type" type="mcpttloc:protectionType"/>

<xs:anyAttribute namespace="##any" processContents="lax"/>

</xs:complexType>

<xs:complexType name="tGeographicalAreaChange">

<xs:sequence>

<xs:element name="AnyAreaChange" type="mcpttloc:tEmptyTypeAttribute" minOccurs="0"/>

<xs:element name="EnterSpecificAreaType" type="mcpttloc:tSpecificAreaType" minOccurs="0"/>

<xs:element name="ExitSpecificAreaType" type="mcpttloc:tSpecificAreaType" minOccurs="0"/>

<xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>

<xs:element name="anyExt" type="mcpttloc:anyExtType" minOccurs="0"/>

</xs:sequence>

<xs:anyAttribute namespace="##any" processContents="lax"/>

</xs:complexType>

<xs:complexType name="tSpecificAreaType">

<xs:sequence>

<xs:element name="GeographicalArea" type="mcpttloc:tGeographicalAreaDef"/>

<xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>

<xs:element name="anyExt" type="mcpttloc:anyExtType" minOccurs="0"/>

</xs:sequence>

<xs:attribute name="TriggerId" type="xs:string" use="required"/>

<xs:anyAttribute namespace="##any" processContents="lax"/>

</xs:complexType>

<xs:complexType name="tPointCoordinate">

<xs:sequence>

<xs:element name="longitude" type="mcpttloc:tCoordinateType"/>

<xs:element name="latitude" type="mcpttloc:tCoordinateType"/>

<xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>

<xs:element name="anyExt" type="mcpttloc:anyExtType" minOccurs="0"/>

</xs:sequence>

<xs:anyAttribute namespace="##any" processContents="lax"/>

</xs:complexType>

<!-- anyExt elements for "tPointCoordinate" -->

<xs:element name="altitude" type="mcpttloc:tCoordinateType2Bytes"/>

<xs:element name="horizontalaccuracy" type="mcpttloc:tCoordinateType1Byte"/>

<xs:element name="verticalaccuracy" type="mcpttloc:tCoordinateType1Byte"/>

<xs:complexType name="tCoordinateType">

<xs:choice minOccurs="1" maxOccurs="1">

<xs:element name="threebytes" type="mcpttloc:tThreeByteType" minOccurs="0"/>

<xs:any namespace="##other" processContents="lax"/>

<xs:element name="anyExt" type="mcpttloc:anyExtType" minOccurs="0"/>

</xs:choice>

<xs:attribute name="type" type="mcpttloc:protectionType"/>

<xs:anyAttribute namespace="##any" processContents="lax"/>

</xs:complexType>

<xs:complexType name="tCoordinateType2Bytes">

<xs:choice minOccurs="1" maxOccurs="1">

<xs:element name="twobytes" type="mcpttloc:tTwoByteType" minOccurs="0"/>

<xs:any namespace="##other" processContents="lax"/>

<xs:element name="anyExt" type="mcpttloc:anyExtType" minOccurs="0"/>

</xs:choice>

<xs:attribute name="type" type="mcpttloc:protectionType"/>

<xs:anyAttribute namespace="##any" processContents="lax"/>

</xs:complexType>

<xs:complexType name="tCoordinateType1Byte">

<xs:choice minOccurs="1" maxOccurs="1">

<xs:element name="onebyteunsignedhalfrange" type="mcpttloc:tOneByteUnsignedHalfRangeType" minOccurs="0"/>

<xs:any namespace="##other" processContents="lax"/>

<xs:element name="anyExt" type="mcpttloc:anyExtType" minOccurs="0"/>

</xs:choice>

<xs:attribute name="type" type="mcpttloc:protectionType"/>

<xs:anyAttribute namespace="##any" processContents="lax"/>

</xs:complexType>

<xs:simpleType name="tThreeByteType">

<xs:restriction base="xs:integer">

<xs:minInclusive value="0"/>

<xs:maxInclusive value="16777215"/>

</xs:restriction>

</xs:simpleType>

<xs:simpleType name="tTwoByteType">

<xs:restriction base="xs:integer">

<xs:minInclusive value="-32768"/>

<xs:maxInclusive value="32768"/>

</xs:restriction>

</xs:simpleType>

<xs:simpleType name="tOneByteUnsignedHalfRangeType">

<xs:restriction base="xs:integer">

<xs:minInclusive value="0"/>

<xs:maxInclusive value="127"/>

</xs:restriction>

</xs:simpleType>

<xs:complexType name="tGeographicalAreaDef">

<xs:sequence>

<xs:element name="PolygonArea" type="mcpttloc:tPolygonAreaType" minOccurs="0"/>

<xs:element name="EllipsoidArcArea" type="mcpttloc:tEllipsoidArcType" minOccurs="0"/>

<xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>

<xs:element name="anyExt" type="mcpttloc:anyExtType" minOccurs="0"/>

</xs:sequence>

<xs:anyAttribute namespace="##any" processContents="lax"/>

</xs:complexType>

<xs:complexType name="tPolygonAreaType">

<xs:sequence>

<xs:element name="Corner" type="mcpttloc:tPointCoordinate" minOccurs="3" maxOccurs="15"/>

<xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>

<xs:element name="anyExt" type="mcpttloc:anyExtType" minOccurs="0"/>

</xs:sequence>

<xs:anyAttribute namespace="##any" processContents="lax"/>

</xs:complexType>

<xs:complexType name="tEllipsoidArcType">

<xs:sequence>

<xs:element name="Center" type="mcpttloc:tPointCoordinate"/>

<xs:element name="Radius" type="xs:nonNegativeInteger"/>

<xs:element name="OffsetAngle" type="xs:unsignedByte"/>

<xs:element name="IncludedAngle" type="xs:unsignedByte"/>

<xs:any namespace="##other" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>

<xs:element name="anyExt" type="mcpttloc:anyExtType" minOccurs="0"/>

</xs:sequence>

<xs:anyAttribute namespace="##any" processContents="lax"/>

</xs:complexType>

<xs:complexType name="anyExtType">

<xs:sequence>

<xs:any namespace="##any" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>

</xs:sequence>

</xs:complexType>

<!-- anyEXT elements – begin -->

<xs:element name="EmergencyTriggeringCriteria" type="mcpttloc:TriggeringCriteriaType"/>

<!-- anyEXT elements – end -->

</xs:schema>