

3GPP TSG CN Plenary Meeting #19
12- 14 March 2003, Birmingham, UK

NP-030018

Source: CN5 (OSA)
Title: Rel-4 CRs 29.198-02 OSA API Part 2: Common data
Agenda item: 7.10
Document for: APPROVAL

Doc-1st-Level	Spec	CR	Rev	Phase	Subject	Cat	Version-Current	Doc-2nd-Level	Workitem
NP-030018	29.198-02	023	-	Rel-4	Correction to defintion of sessionID	F	4.4.0	N5-021096	OSA1
NP-030018	29.198-02	024	-	Rel-4	Clarification on uniqueness of assignmentID	F	4.4.0	N5-021129	OSA1
NP-030018	29.198-02	025	-	Rel-5	Clarification on uniqueness of assignmentID	A	5.1.1	N5-021130	OSA2
NP-030018	29.198-02	026	-	Rel-4	Correction to P_INVALID_STATE value	F	4.4.0	N5-021119	OSA1
NP-030018	29.198-02	027	-	Rel-5	Correction to P_INVALID_STATE value	A	5.1.1	N5-021120	OSA2
NP-030018	29.198-02	028	-	Rel-4	Addition of Support of National Numbering Plans	F	4.4.0	N5-030042	OSA1
NP-030018	29.198-02	029	-	Rel-5	Addition of Support of National Numbering Plans	A	5.1.1	N5-030043	OSA2

CHANGE REQUEST

⌘ **29.198-02 CR 023** ⌘ rev **-** ⌘ Current version: **4.4.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	⌘	Correction to defintion of sessionID		
Source:	⌘	N5		
Work item code:	⌘	OSA1	Date:	⌘ 31/10/2002
Category:	⌘	F	Release:	⌘ REL-4
		Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
		F (correction)		2 (GSM Phase 2)
		A (corresponds to a correction in an earlier release)		R96 (Release 1996)
		B (addition of feature),		R97 (Release 1997)
		C (functional modification of feature)		R98 (Release 1998)
		D (editorial modification)		R99 (Release 1999)
		Detailed explanations of the above categories can be found in 3GPP TR 21.900.		Rel-4 (Release 4)
				Rel-5 (Release 5)
				Rel-6 (Release 6)

Reason for change:	⌘	Correction to defintion of sessionID to ensure that a session ID may be sufficient to unquely identify a call when using the callAborted method signature		
		In Call Control (both GCCS & MPCC) CallAborted(in TpSessionID callReference) callback method is invoked upon IpAppCallControlManager interface to inform it about an aborted call. However the session Id is insufficient to uniquely identify the call.		
Summary of change:	⌘	Correct the defintion of session ID so that it may be used to uniquely identify a call.		
Consequences if not approved:	⌘	Not possible for an application to know which call has been aborted when a callAborted received by the application and using the current definition of session ID.		

Clauses affected:	⌘	5.1.9										
Other specs affected:	⌘	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Y</td> <td style="padding: 2px;">N</td> </tr> <tr> <td style="padding: 2px;"><input type="checkbox"/></td> <td style="padding: 2px;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="padding: 2px;"><input type="checkbox"/></td> <td style="padding: 2px;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="padding: 2px;"><input type="checkbox"/></td> <td style="padding: 2px;"><input checked="" type="checkbox"/></td> </tr> </table> Other core specifications	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	⌘	
Y	N											
<input type="checkbox"/>	<input checked="" type="checkbox"/>											
<input type="checkbox"/>	<input checked="" type="checkbox"/>											
<input type="checkbox"/>	<input checked="" type="checkbox"/>											
		Test specifications										
		O&M Specifications										
Other comments:	⌘											

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at <http://www.3gpp.org/specs/CR.htm>. Below is a brief summary:

- 1) Fill out the above form. The symbols above marked ⌘ contain pop-up help information about the field that they are closest to.
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downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.

- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

***** Change #1: TpSessionID *****

5.1.9 TpSessionID

~~Defines a session ID with a value that is unique within the context of a specific implementation of an interface. This ID is used to identify different sessions (e.g. different call or call leg sessions) of an interface capable of handling multiple sessions.~~

~~Example 1, myCallObject may implement the IpCall interface. If so, myCallObject may handle multiple call sessions, and each call session will be identified by a call session ID value (e.g. 1, 2, 3) that is unique within the context of myCallObject.~~

~~Example 2, myCallAndCallLegObject may implement the IpCall and IpCallLeg interfaces. If so, myCallAndCallLegObject may handle multiple call sessions and multiple call leg sessions. Each call session will be identified by a call session ID value (e.g. 1, 2, 3) that is unique within the context of myCallAndCallLegObject. Similarly, each call leg session will be identified by a call leg session ID value (e.g. 1, 2, 3, 4, 5, 6) that is also unique within the context of myCallAndCallLegObject. Because call session IDs and call leg session IDs are different data types, overlapping values are permitted and their uniqueness still remains. The session ID is identical to a TpInt32 type.~~

Defines a session ID with a value that is at least unique within the context of a specific instance of an SCF. An instance of an SCF is a single service manager instance plus the associated subordinate instances. For example, a single MultiPartyCallControlManager instance plus all associated MultiPartyCall and MultiPartyCallLeg instances. The session ID is used to identify different sessions (e.g. different call or call leg sessions) of an interface capable of handling multiple sessions.

Example 1, myCallObject may implement the IpCall interface. If so, myCallObject may handle multiple call sessions, and each call session will be identified by a call session ID value (e.g. 1, 2, 3) that is unique within the context of the SCF instance.

Example 2, myCallAndCallLegObject may implement the IpCall and IpCallLeg interfaces. If so, myCallAndCallLegObject may handle multiple call sessions and multiple call leg sessions. Each call session will be identified by a call session ID value (e.g. 1, 2, 3) that is unique within the context of the SCF instance. Similarly, each call leg session will be identified by a call leg session ID value (e.g. 1, 2, 3, 4, 5, 6) that is also unique within the context of the SCF instance. Because call session IDs and call leg session IDs are different data types, overlapping values are permitted and their uniqueness still remains.

The session ID is identical to a TpInt32 type.

***** End of Change #1: TpSessionID *****

CHANGE REQUEST

⌘ **29.198-02 CR 024** ⌘ rev **-** ⌘ Current version: **4.4.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	⌘	Clarification on uniqueness of assignmentID	
Source:	⌘	N5	
Work item code:	⌘	OSA1	Date: ⌘ 31/10/2002
Category:	⌘	F	Release: ⌘ REL-4
		Use <u>one</u> of the following categories:	Use <u>one</u> of the following releases:
		F (correction)	2 (GSM Phase 2)
		A (corresponds to a correction in an earlier release)	R96 (Release 1996)
		B (addition of feature),	R97 (Release 1997)
		C (functional modification of feature)	R98 (Release 1998)
		D (editorial modification)	R99 (Release 1999)
		Detailed explanations of the above categories can be found in 3GPP TR 21.900.	Rel-4 (Release 4)
			Rel-5 (Release 5)
			Rel-6 (Release 6)

Reason for change:	⌘	Clarification on uniqueness of assignmentID within the context of the implementation of the interface creating the ID.	
		The explanation of TpAssignmentID should clarify that an assignmentID is unique across different types of method invocations within a particular instance of an implementation of an interface. This is currently implied by the TpAssignmentID description and is also implied by the fact that in e.g. Call Related User Interaction, in IpCallUI an abortActionReq uses assignmentID as the differentiator to abort requests of various types within the same interface.	
Summary of change:	⌘	Clarify the textual description of Assignment ID, i.e. they are unique across different types of method invocations within a particular instance of an implementation of an interface	
Consequences if not approved:	⌘	Failure to correct the API shall result in vendor specific interpretation and interoperability issues.	

Clauses affected:	⌘	5.1.8									
Other specs affected:	⌘	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px;">Y</td> <td style="width: 20px;">N</td> </tr> <tr> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> </tr> </table> Other core specifications Test specifications O&M Specifications	Y	N	X	X	X	X	X	X	⌘
Y	N										
X	X										
X	X										
X	X										
Other comments:	⌘										

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- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

***** Change #1: TpAssignmentID *****

5.1.8 TpAssignmentID

Defines an assignment ID with a value that is unique within the context of the implementation of the interface creating this ID, unique to an instance of an implementation of a given interface (i.e an object), irrespective of the method invoked on it. This ID ~~is~~ may be used, for example, to identify single or multiple event notifications enabled by the requesting interface implementation an object-; This ID ~~can also~~ or be used by the a requesting interface implementation object to modify or stop further event notifications functionality (e.g event notifications, call load control) associated with a previously supplied assignment ID.

~~Example 1, myIpUserLocation may implement the IpUserLocation interface. If so, myIpUserLocation may receive multiple Req methods, and will generate a single assignment ID per request that is unique within the context of myIpUserLocation.~~

~~Example 2, myIpMultiPartyCallControlManager may implement the IpMultiPartyCallControlManager interface. If so, myIpMultiPartyCallControlManager may receive multiple createNotification method invocations, and will generate a single assignment ID per request that is unique within the context of myIpMultiPartyCallControlManager. myIpMultiPartyCallControlManager may also receive changeNotification or destroyNotification methods that will contain an assignment ID used to correlate these methods with the original createNotification method.~~

The assignment ID is identical to a TpInt32 type.

***** End of Change #1: TpAssignmentID *****

CHANGE REQUEST

⌘ **29.198-02 CR 025** ⌘ rev **-** ⌘ Current version: **5.1.1** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	⌘	Clarification on uniqueness of assignmentID	
Source:	⌘	N5	
Work item code:	⌘	OSA2	Date: ⌘ 31/10/2002
Category:	⌘	A	Release: ⌘ REL-5
		Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction 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.	Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)

Reason for change:	⌘	Clarification on uniqueness of assignmentID within the context of the implementation of the interface creating the ID. The explanation of TpAssignmentID should clarify that an assignmentID is unique across different types of method invocations within a particular instance of an implementation of an interface. This is currently implied by the TpAssignmentID description and is also implied by the fact that in e.g. Call Related User Interaction, in IpCallUI an abortActionReq uses assignmentID as the differentiator to abort requests of various types within the same interface.
Summary of change:	⌘	Clarify the textual description of Assignment ID, i.e. they are unique across different types of method invocations within a particular instance of an implementation of an interface
Consequences if not approved:	⌘	Failure to correct the API shall result in vendor specific interpretation and interoperability issues.

Clauses affected:	⌘	5.1.8								
Other specs affected:	⌘	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px;">Y</td> <td style="width: 20px;">N</td> </tr> <tr> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> </tr> </table> Other core specifications ⌘ Test specifications ⌘ O&M Specifications ⌘	Y	N	X	X	X	X	X	X
Y	N									
X	X									
X	X									
X	X									
Other comments:	⌘									

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- 2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under <ftp://ftp.3gpp.org/specs/> For the latest version, look for the directory name with the latest date e.g. 2001-03 contains the specifications resulting from the March 2001 TSG meetings.
- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

***** Change #1: TpAssignmentID *****

5.1.8 TpAssignmentID

Defines an assignment ID with a value that is unique within the context of the implementation of the interface creating this ID, unique to an instance of an implementation of a given interface (i.e an object), irrespective of the method invoked on it. This ID ~~is~~ may be used, for example, to identify single or multiple event notifications enabled by the requesting interface implementation an object-; This ID can also or be used by the a requesting interface implementation object to modify or stop further event notifications functionality (e.g event notifications, call load control) associated with a previously supplied assignment ID.

Example 1, myIpUserLocation may implement the IpUserLocation interface. If so, myIpUserLocation may receive multiple Req methods, and will generate a single assignment ID per request that is unique within the context of myIpUserLocation.

Example 2, myIpMultiPartyCallControlManager may implement the IpMultiPartyCallControlManager interface. If so, myIpMultiPartyCallControlManager may receive multiple createNotification method invocations, and will generate a single assignment ID per request that is unique within the context of myIpMultiPartyCallControlManager. myIpMultiPartyCallControlManager may also receive changeNotification or destroyNotification methods that will contain an assignment ID used to correlate these methods with the original createNotification method.

The assignment ID is identical to a TpInt32 type.

***** End of Change #1: TpAssignmentID *****

CHANGE REQUEST

⌘ **29.198-02 CR 026** ⌘ rev **-** ⌘ Current version: **4.4.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	⌘	Correction to P_INVALID_STATE value	
Source:	⌘	N5	
Work item code:	⌘	OSA1	Date: ⌘ 31/10/2002
Category:	⌘	F	Release: ⌘ REL-4
		Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction 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.	Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)

Reason for change:	⌘	The IDL for P_INVALID_STATE in Part 2 contradicts the text description of the same data type: const Tplnt32 P_INVALID_STATE = 744 is the IDL declaration, but in the Word document P_INVALID_STATE is defined as having value 774 (306H)
Summary of change:	⌘	Change Word document value to 744 (2E8H) to match current IDL description of P_INVALID_STATE.
Consequences if not approved:	⌘	A contradiction will exist between the IDL and the Word document. If no alignment is made, some developers will chose one value, others the other, and interworking problems will arise.

Clauses affected:	⌘	5.4.3								
Other specs affected:	⌘	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;">X</td> </tr> </table> Other core specifications ⌘ Test specifications ⌘ O&M Specifications ⌘	Y	N		X		X		X
Y	N									
	X									
	X									
	X									
Other comments:	⌘									

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- 3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

5.4.3 Constants associated with TpCommonExceptions

Name	Value	Description
P_RESOURCES_UNAVAILABLE	000Dh	The required resources in the network are not available
P_TASK_REFUSED	000Eh	The requested method has been refused
P_TASK_CANCELLED	000Fh	The requested method has been cancelled
P_NO_CALLBACK_ADDRESS_SET	0011h	The requested method is refused because no callback address has been set (this may be the result of a timing issue between setting the callback address and invoking the method)
P_METHOD_NOT_SUPPORTED	0016h	The method is not allowed or supported within the context of the current service agreement.
P_INVALID_STATE	0306h 2E8h	Unexpected sequence of methods, i.e., the sequence does not match the specified state diagrams.

←----- MODIFIED SECTION ----->

Annex A (normative): OMG IDL Description of the Common Data definitions

The OMG IDL representation of the present document is contained in a text file (osa.idl contained in archive 2919802IDL.ZIP) which accompanies the present document.

```
const TpInt32 P_INVALID_STATE = 744;
```

←----- END MODIFIED SECTION ----->

CHANGE REQUEST

⌘ **29.198-02 CR 027** ⌘ rev **-** ⌘ Current version: **5.1.1** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	⌘ Correction to P_INVALID_STATE value		
Source:	⌘ N5		
Work item code:	⌘ OSA2 Date: ⌘ 31/10/2002		
Category:	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> ⌘ A Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction 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. </td> <td style="width: 50%; vertical-align: top;"> Release: ⌘ REL-5 Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6) </td> </tr> </table>	⌘ A Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction 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.	Release: ⌘ REL-5 Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)
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Reason for change:	⌘ The IDL and WSDL for P_INVALID_STATE in Part 2 contradicts the text description of the same data type: const Tplnt32 P_INVALID_STATE = 744 is the IDL declaration, the WSDL uses the same value, but in the Word document P_INVALID_STATE is defined as having value 774 (306H).
Summary of change:	⌘ Change the Word document value to 744 (2E8H) to match current IDL and WSDL description of P_INVALID_STATE
Consequences if not approved:	⌘ A contradiction will exist between the IDL, WSDL and the Word document. If no alignment is made, some developers will chose one value, others the other, and interworking problems will arise.

Clauses affected:	⌘ 5.4.3									
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;">⌘</td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;">⌘</td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;">⌘</td> <td style="text-align: center;">X</td> </tr> </table> Other core specifications ⌘ Test specifications ⌘ O&M Specifications ⌘	Y	N	⌘	X	⌘	X	⌘	X	⌘
Y	N									
⌘	X									
⌘	X									
⌘	X									
Other comments:	⌘									

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5.4.3 Constants associated with TpCommonExceptions

Name	Value	Description
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P_TASK_REFUSED	000Eh	The requested method has been refused
P_TASK_CANCELLED	000Fh	The requested method has been cancelled
P_NO_CALLBACK_ADDRESS_SET	0011h	The requested method is refused because no callback address has been set (this may be the result of a timing issue between setting the callback address and invoking the method)
P_METHOD_NOT_SUPPORTED	0016h	The method is not allowed or supported within the context of the current service agreement.
P_INVALID_STATE	0306h 2E8h	Unexpected sequence of methods, i.e., the sequence does not match the specified state diagrams.

←-----FIRST MODIFIED SECTION-----→

Annex A (normative): OMG IDL Description of the Common Data definitions

The OMG IDL representation of the present document is contained in a text file (osa.idl contained in archive 2919802IDL.ZIP) which accompanies the present document.

```
const TpInt32 P_INVALID_STATE = 744;
```

←-----SECOND MODIFIED SECTION-----→

Annex B (informative): W3C WSDL Description of the Common Data definitions

The W3C WSDL representation of this specification is contained in a text file (osa.wsdl contained in archive 2919802WSDL.ZIP) which accompanies the present document.

```
<xsd:simpleType name="P_INVALID_STATE">
  <xsd:restriction base="osaxsd:TpInt32">
    <xsd:minInclusive value="744"/>
    <xsd:maxInclusive value="744"/>
  </xsd:restriction>
</xsd:simpleType>
```

←-----END MODIFIED SECTION-----→

CHANGE REQUEST

⌘ **29.198-02 CR 028** ⌘ rev **-** ⌘ Current version: **4.4.0** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	⌘ Addition of Support of National Numbering Plans		
Source:	⌘ N5		
Work item code:	⌘ OSA1	Date:	⌘ 21/01/2003
Category:	⌘ F	Release:	⌘ Rel-4
	Use <u>one</u> of the following categories:		Use <u>one</u> of the following releases:
	F (correction)		2 (GSM Phase 2)
	A (corresponds to a correction in an earlier release)		R96 (Release 1996)
	B (addition of feature),		R97 (Release 1997)
	C (functional modification of feature)		R98 (Release 1998)
	D (editorial modification)		R99 (Release 1999)
	Detailed explanations of the above categories can be found in 3GPP TR 21.900.		Rel-4 (Release 4)
			Rel-5 (Release 5)
			Rel-6 (Release 6)

Reason for change:	⌘ To support National Specific Numbering Plans		
Summary of change:	⌘ The ISUP signalling parameter Nature of Address (NOA) supports a number of values which are marked "Reserved for National Use". These values can be used by the National SDO to fulfil various regulatory requirements, allocation and use of the National Numbering Plan is, in most instances, controlled by National regulation. The ISUP NOA is carried in CAP and INAP operations within the calling and called party number parameters, it is used in the mapping process between INAP/CAP and the API to determine the appropriate Parlay/OSA Address Plan indication. Parlay/OSA does not currently make allowance for national specific numbering plan variants. Although there is the option of using P_ADDRESS_PLAN_ANY however, the disadvantage of using this option is that all the other elements of TP_ADDRESS will be ignored which means that screening and presentation information will not be available.		
Consequences if not approved:	⌘ A mapping from INAP/CAP for National Specific numbers to Parlay/OSA cannot be provided which means that it will not be possible to trigger and provide Parlay/OSA services for these numbers. Note that there may be a regulatory requirement that these numbers should not be excluded from service		

Clauses affected:	⌘ 5.6.1 and 5.6.5										
Other specs affected:	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center;">Y</td> <td style="width: 20px; text-align: center;">N</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> </tr> </table>	Y	N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other core specifications Test specifications O&M Specifications	⌘
Y	N										
<input type="checkbox"/>	<input checked="" type="checkbox"/>										
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<input type="checkbox"/>	<input checked="" type="checkbox"/>										
Other comments:	⌘										

5.6 Address-related Data definitions

5.6.1 TpAddress

Defines the Sequence of Data Elements that specify an address.

Sequence Element Name	Sequence Element Type
Plan	<u>TpAddressPlan</u>
AddrString	<u>TpString</u>
Name	<u>TpString</u>
Presentation	<u>TpAddressPresentation</u>
Screening	<u>TpAddressScreening</u>
SubAddressString	<u>TpString</u>

The AddrString defines the actual address information and the structure of the string depends on the Plan. The following table gives an overview of the format of the AddrString for the different address plans.

Address Plan	AddrString Format Description	Example
P_ADDRESS_PLAN_NOT_PRESENT	Not applicable	
P_ADDRESS_PLAN_UNDEFINED	Not applicable	
P_ADDRESS_PLAN_IP	For Ipv4 the dotted quad notation is used. Also for IPv6 the dotted notation is used. The address can optionally be followed by a port number separated by a colon.	"127.0.0.1:42"
P_ADDRESS_PLAN_MULTICAST	An Ipv4 class D address or Ipv6 equivalent in dotted notation.	"224.0.0.0"
P_ADDRESS_PLAN_UNICAST	A non-multicast or broadcast IP address in dotted notation.	"127.0.0.1"
P_ADDRESS_PLAN_E164	An international number without the international access code, including the country code and excluding the leading zero of the area code.	"31161249111"
P_ADDRESS_PLAN_AESA	The ATM End System Address in binary format (40 bytes)	01234567890ABCDEF01234567890ABCDEF01234567
P_ADDRESS_PLAN_URL	A uniform resource locator as defined in IETF RFC 1738 [6]	"http://www.parlay.org"
P_ADDRESS_PLAN_NSAP	The binary representation of the Network Service Access Point	490001AA000400010420
P_ADDRESS_PLAN_SMTP	An e-mail address as specified in IETF RFC822 [7]	"webmaster@parlay.org"
P_ADDRESS_PLAN_X400	The X400 address structured as a set of attribute value pairs separated by semicolons.	"C=nl;ADMD=;PRMD=uninet;O=parlay;S=Doe;I=S;G=John"
P_ADDRESS_PLAN_SIP (Note 1)	Any valid address string allowed in RFC 3261 "SIP: Session Initiation Protocol"	"sip:user@parlay.org" "tel:+358-555-1234567;postd=pp22" <sip:enquiries@1.2.3.4:5060>Enquiries"
P_ADDRESS_PLAN_ANY (Note 2)	Not applicable	
<u>P_ADDRESS_PLAN_NATIONAL</u>	<u>Reserved for National Specific use</u>	<u>Refer to relevant National Numbering Plan Specification</u>
NOTE 1: It should be noted that two SIP addresses will be regarded as equivalent by a gateway if they correspond to the same user at the same network address. The textual form of the two addresses need not be the same. For example, sip:enquiries@parlay.org will be deemed to match <sip:Enquiries@1.2.3.4:5060>Enquiries (if parlay.org resolves to 1.2.3.4).		
NOTE 2: This is only to be used with TpAddressRange		

5.6.2 TpAddressSet

Defines a Numbered Set of Data Elements of TpAddress.

5.6.3 TpAddressPresentation

Defines whether an address can be presented to an end user.

Name	Value	Description
P_ADDRESS_PRESENTATION_UNDEFINED	0	Undefined
P_ADDRESS_PRESENTATION_ALLOWED	1	Presentation Allowed
P_ADDRESS_PRESENTATION_RESTRICTED	2	Presentation Restricted
P_ADDRESS_PRESENTATION_ADDRESS_NOT_AVAILABLE	3	Address not available for presentation

5.6.4 TpAddressScreening

Defines whether an address can be presented to an end user.

Name	Value	Description
P_ADDRESS_SCREENING_UNDEFINED	0	Undefined
P_ADDRESS_SCREENING_USER_VERIFIED_PASSED	1	user provided address verified and passed
P_ADDRESS_SCREENING_USER_NOT_VERIFIED	2	user provided address not verified
P_ADDRESS_SCREENING_USER_VERIFIED_FAILED	3	user provided address verified and failed
P_ADDRESS_SCREENING_NETWORK	4	Network provided address (see Note)
NOTE:	Even though the application may provide the address to the gateway, from the end-user point of view it is still regarded as a network provided address.	

5.6.5 TpAddressPlan

Defines the address plan (or numbering plan) used. It is also used to indicate whether an address is actually defined in a TpAddress data element.

Name	Value	Description
P_ADDRESS_PLAN_NOT_PRESENT	0	No Address Present
P_ADDRESS_PLAN_UNDEFINED	1	Undefined
P_ADDRESS_PLAN_IP	2	IP
P_ADDRESS_PLAN_MULTICAST	3	Multicast
P_ADDRESS_PLAN_UNICAST	4	Unicast
P_ADDRESS_PLAN_E164	5	E.164
P_ADDRESS_PLAN_AESA	6	AESA
P_ADDRESS_PLAN_URL	7	URL
P_ADDRESS_PLAN_NSAP	8	NSAP
P_ADDRESS_PLAN_SMTTP	9	SMTTP
<<deprecated>> P_ADDRESS_PLAN_MSMAIL (see Note)	10	Microsoft Mail
P_ADDRESS_PLAN_X400	11	X.400
P_ADDRESS_PLAN_SIP	12	Any URL scheme which is allowed in RFC 3261 "SIP: Session Initiation Protocol"
P_ADDRESS_PLAN_ANY	13	Any address plan is deemed to match (This is only used for TpAddressRange)
P_ADDRESS_PLAN_NATIONAL	14	Reserved for National Specific use
NOTE:	This value is not to be used.	

For the case where the P_ADDRESS_PLAN_NOT_PRESENT and P_ADDRESS_PLAN_ANY are indicated, the rest of the information in the TpAddress is not valid.

CHANGE REQUEST

⌘ **29.198-02 CR 029** ⌘ rev **-** ⌘ Current version: **5.1.1** ⌘

For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.

Proposed change affects: UICC apps ME Radio Access Network Core Network

Title:	⌘ Addition of Support of National Numbering Plans		
Source:	⌘ N5		
Work item code:	⌘ OSA2	Date:	⌘ 21/01/2003
Category:	⌘ A	Release:	⌘ Rel-5
	Use <u>one</u> of the following categories: F (correction) A (corresponds to a correction 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.		Use <u>one</u> of the following releases: 2 (GSM Phase 2) R96 (Release 1996) R97 (Release 1997) R98 (Release 1998) R99 (Release 1999) Rel-4 (Release 4) Rel-5 (Release 5) Rel-6 (Release 6)

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