3GPP TSG_CN **Tdoc NP-000520**
Plenary Meeting #9, Oahu, Hawaii
20th – 22nd September 2000.

Source: **TSG_N WG 5**

Title: **CRs to R99 Work Item OSA - corrections to 29.198 cont.**

Agenda item: **8.23.5**

Document for: **APPROVAL**

Introduction:

This document contains 11 CRs on R99 Work Item **OSA** that has been agreed by TSG_N WG5, and is forwarded to TSG_N Plenary meeting #9 for approval.

Spec	CR	Rev	Doc-2nd-Level	Phase	Subject	Cat	Ver_C	Ver_N
29.198	014	1	N5-000141	R99	Alignment of Framework with Parlay 2.1, missing service properties parameter in getServiceManager() operation of IpSvcFactory.	F	3.0.0	3.1.0
29.198	015	1	N5-000142	R99	Alignment of Framework with Parlay 2.1 undefined datatype in endaccess operation of IpAccess.	F	3.0.0	3.1.0
29.198	016	1	N5-000143	R99	Alignment of Framework with Parlay 2.1, service and interface naming correction.	F	3.0.0	3.1.0
29.198	017	1	N5-000144	R99	Alignment of Framework with Parlay 2.1, renaming of TpPropertyStruct to TpServiceTypeProperty	F	3.0.0	3.1.0
29.198	018	1	N5-000145	R99	Alignment of Framework with Parlay 2.1 addition of DES 128 bit authentication.	F	3.0.0	3.1.0
29.198	019	2	N5-000175	R99	Alignment of Framework with Parlay 2.1, improvement of load statistic data-types.	F	3.0.0	3.1.0
29.198	020	1	N5-000147	R99	Correction in descriptive text for Call STD regarding user interaction in 2 Parties in Call State.	F	3.0.0	3.1.0
29.198	021		N5-000151	R99	"Removal of double description of the type TpCallServiceCode".	F	3.0.0	3.1.0
29.198	022	1	N5-000177	R99	Removal of the unused type TpUIMessageCriteria	F	3.0.0	3.1.0
29.198	023		N5-000176	R99	Alignment of Framework with Parlay 2.1, addition of setCallbackWithSessionID operation to IpService.	F	3.0.0	3.1.0
29.198	024		N5-000174	R99	Clarification of life time of parameters in TpAuthDomain	F	3.0.0	3.1.0

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Document N5-000141
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29.198	CR	014R1	Current Version:	3.0.0

GSM (AA.BB) or 3G (AA.BBB) specification number ↑ *↑ CR number as allocated by MCC support team*

For submission to: CN#09 *list expected approval meeting # here ↑*	for approval	X	strategic		*(for SMG use only)*
	for information		non-strategic		

Form: CR cover sheet, version 2 for 3GPP and SMG *The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc*

Proposed change affects: *(at least one should be marked with an X)*	(U)SIM		ME		UTRAN / Radio		Core Network	X

Source:	N5	**Date:**	27 August 2000

Subject: Alignment of Framework with Parlay 2.1, missing service properties parameter in getServiceManager() operation of IpSvcFactory.

Work item: OSA

Category: *(only one category shall be marked with an X)*

F	Correction	X	**Release:**	Phase 2	
A	Corresponds to a correction in an earlier release			Release 96	
B	Addition of feature			Release 97	
C	Functional modification of feature			Release 98	
D	Editorial modification			Release 99	X
				Release 00	

Reason for change: The FW of TS 29.198 contains a few differences compared to Parlay 2.1, mainly in the area of different parameter names and data-types. In the getServiceManager() operation of the IpSvcFactory interface a parameter for indicating the service properties of the Service manager that is requested to be created is missing.

Clauses affected: 6.2, 9.2

Other specs affected:

Other 3G core specifications		→ List of CRs:
Other GSM core specifications		→ List of CRs:
MS test specifications		→ List of CRs:
BSS test specifications		→ List of CRs:
O&M specifications		→ List of CRs:

Other comments:

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6.2.5 Service Factory

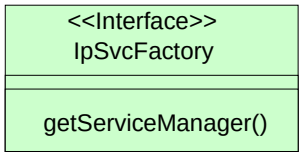

Figure 6-8: Service Factory Class Diagram

<<Interface>> IpSvcFactory
getServiceManager(application : in TpDomainID, serviceProperties : in TpServicePropertyList, serviceManager : out IpServiceRefRef) : TpResult

9.2.4 Registration IDL

```
#include <fw.idl>


module org{
module threegpp{
module osa{
module fw{
module registration{

      /*******************************************************************************
/
      //                                Interface definitions
//
      /*******************************************************************************
/

      /* The Service Registration Framework interface provides the methods used for the
      registration
      of network SCFs at the Framework. */
      interface IpServiceRegistration : IpOsa {

            /* This method is used to register a SCF in the Framework, for subsequent
            discovery by
            the applications. */
            void registerService (
            in TpServiceTypeName                  serviceTypeName,

            in TpServicePropertyList        servicePropertyList,
            out TpServiceID                              serviceID
            ) raises (TpGeneralException);

            /* This method informs the Framework of the availability of a service factory for
            a
            previously registered SCF. */
            void announceServiceAvailability (
            in TpServiceID           serviceID,
            in IpOsa                        serviceFactory
            ) raises (TpGeneralException);

            /* This method is used to remove a registered SCF from the Framework. */
            void unregisterService (
            in TpServiceID           serviceID
            ) raises  (TpGeneralException);

            /* This method is used to ebtain the decription of a certain SCF as it was
            registered in
            the Framework. */
            void describeService (
            in TpServiceID                               serviceID,
            out TpServiceDescription        serviceDescription
            ) raises (TpGeneralException);
               };

      /* The Service Factory Framework interface provides the Framework with access to a
      manager
      interface of a network SCF to be given to an application. */
      interface IpSvcFactory : IpOsa {

            /* This method returns an SCF manager interface reference for a specified
            application. */
            void getServiceManager (
            in TpClientAppID         application,
            in TpServicePropertyList        serviceProperties,
            out IpOsa                       serviceManager
            ) raises (TpGeneralException);
               };
};};};};};
```

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Document N5-000142
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29.198	CR	015R1	Current Version:	3.0.0

GSM (AA.BB) or 3G (AA.BBB) specification number ↑ *↑ CR number as allocated by MCC support team*

For submission to: CN#09 *list expected approval meeting # here ↑*	for approval	X	strategic		*(for SMG use only)*
	for information		non-strategic		

Form: CR cover sheet, version 2 for 3GPP and SMG *The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc*

Proposed change affects: *(at least one should be marked with an X)* (U)SIM [ ] ME [ ] UTRAN / Radio [ ] Core Network [X]

Source: N5 **Date:** 27 August 2000

Subject: Alignment of Framework with Parlay 2.1 undefined datatype in endaccess operation of IpAccess.

Work item: OSA

Category: *(only one category shall be marked with an X)*

F	Correction	X	**Release:**	Phase 2	
A	Corresponds to a correction in an earlier release			Release 96	
B	Addition of feature			Release 97	
C	Functional modification of feature			Release 98	
D	Editorial modification			Release 99	X
				Release 00	

Reason for change: The FW of TS 29.198 contains a few differences compared to Parlay 2.1, mainly in the area of different parameter names and data-types.
The endAccess operation of the IpAccess interface has a parameter called endAccessProperties of data-type TpPropertyList. This is not defined in TS 29.198 and as an improvement furthermore a specialised data-type TpEndAccessProperties should be used.

Clauses affected: 6.2, 8.2, 9.2

Other specs affected:

Other 3G core specifications	[ ]	→ List of CRs:
Other GSM core specifications	[ ]	→ List of CRs:
MS test specifications	[ ]	→ List of CRs:
BSS test specifications	[ ]	→ List of CRs:
O&M specifications	[ ]	→ List of CRs:

Other comments:

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6.2.3.4 IpAccess

<<Interface>> IpAccess
obtainInterface(interfaceName: in TpInterfaceName, fwInterface: out IpOsaRefRef): TpResult obtainInterfaceWithCallback(interfaceName: in TpInterfaceName, appInterface: in IpOsaRef, fwInterface: out IpOsaRefRef): TpResult accessCheck(serviceToken: in TpServiceToken,securityContext:: in TpString, securityDomain: in TpString, group : in TpString, serviceAccessTypes: in TpString, serviceAccessControl: out TpServiceAccessControlRef): TpResult selectService(serviceID: in TpServiceID, serviceProperties: in TpServicePropertyList, serviceToken: out TpServiceTokenRef): TpResult signServiceAgreement(serviceToken: in TpServiceToken, agreementText: in TpString, signingAlgorithm: in TpSigningAlgorithm, signatureAndServiceMgr: out TpSignatureAndServiceMgrRef): TpResult terminateServiceAgreement(serviceToken: in TpServiceToken, terminationText: in TpString, digitalSignature: in TpString): TpResult endAccess(endAccessProperties: in TpEndAccessProperties~~TpPropertyList~~) : TpResult

8.2 Framework Data Definitions

8.2.1.4 TpEntOpIDList

This data type defines a Numbered Set of Data Elements of type TpEntOpID.

TpPropertyName

This data type is identical to `TpString`. It is the name of a generic “property”.

TpPropertyValue

This data type is identical to `TpString`. It is the value (or the list of values) associated with a generic “property”.

TpProperty

This data type is a `Sequence of Data Elements` which describes a generic “property”. It is a structured data type consisting of the following {name,value} pair:

Sequence Element Name	Sequence Element Type
`PropertyName`	`TpPropertyName`
`PropertyValue`	`TpPropertyValue`

TpPropertyList

This data type defines a `Numbered List of Data Elements` of type `TpProperty`.

8.2.2.4 TpAuthCapabilityList

This data type is identical to a TpString. It is a string of multiple TpAuthCapability concatenated using a comma (,)as the separation character.

TpEndAccessProperties

This data type is of type TpPropertyList. It identifies the actions that the framework should perform when an application or service capability feature entity ends its access session (e.g. existing service capability or application sessions may be stopped, or left running).

9.2 Framework IDL

9.2.1 Common Data Types for the Framework

```
#include <OSA.idl>

module org{

module threegpp{

module osa{

module fw{


        typedef TpString       TpClientAppID;        // Identifies the client appl to the
               framework.

        typedef sequence       <TpClientAppID> TpClientAppIDList;

        typedef TpString TpEntOpID;

        typedef sequence < TpEntOpID >         TpEntOpIDList;

        typedef TpString TpPropertyName;

        typedef TpString TpPropertyValue;

        typedef sequence < TpProperty > TpPropertyList;

      struct TpProperty {
              TpPropertyName                PropertyName;
              TpPropertyValue               PropertyValue;
        };


        typedef  TpString  TpServiceID;      // A string of characters, generated automatically
                           by the
                                    // Framework and comprising a TpUniqueServiceNumber,
                                    // TpServiceNameString, and a number of relevant
                                    // TpServiceSpecString, concatenated using a forward
                                    // separator (/), that uniquely identifies an
                                  instance of a
                                    // SCF interface.
...
```

9.2.3 Trust and Security Management IDL

```
#include <fw.idl>


module org{
module threegpp{
module osa{
module fw{
module trust_and_security{

      /*******************************************************************************
/
```

```
      //                                Data definitions
//
      /*******************************************************************************
/

       typedef TpString             TpAccessType;         // The type of access interface
requested by the client
                                       // application. For OSA release 99 the following
                                     values
                                       // have been defined: NULL (indicates the default
                                     access
                                       // type) and P_ACCESS.

       typedef TpString             TpAuthType;                  // The type of
authentication mechanism requested by the
                                       // client. For OSA release 99 the following values
                                     have
                                       // been defined: NULL (indicates OSA authentication),
                                       // P_AUTHENTICATION (indicates use of the OSA
                                       // authentication interfaces.

       typedef TpString      TpAuthCapability;            // The authentication capabilities
that could be supported
                                       // by the OSA. For OSA release 99 the following
                                     values
                                       // have been defined: NULL (indicates no client
                                       // capabilities, P_DES_56, P_RSA_512 and P_RSA_1024).

       typedef TpString             TpAuthCapabilityList; // A string of multiple
TpAuthCapability
                                              // concatenated using a commas.

       typedef TpPropertyList TpEndAccessProperties;

..
```

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29.198	CR	016R1	Current Version:	3.0.0

GSM (AA.BB) or 3G (AA.BBB) specification number ↑ *↑ CR number as allocated by MCC support team*

For submission to: CN#09 *list expected approval meeting # here ↑*

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strategic [ ] non-strategic [ ] *(for SMG use only)*

Form: CR cover sheet, version 2 for 3GPP and SMG *The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc*

Proposed change affects: *(at least one should be marked with an X)* (U)SIM [ ] ME [ ] UTRAN / Radio [ ] Core Network [X]

Source: N5 **Date:** 27 August 2000

Subject: Alignment of Framework with Parlay 2.1, service and interface naming correction.

Work item: OSA

Category: *(only one category shall be marked with an X)*

F	Correction	[X]	**Release:**	Phase 2	[ ]
A	Corresponds to a correction in an earlier release	[ ]		Release 96	[ ]
B	Addition of feature	[ ]		Release 97	[ ]
C	Functional modification of feature	[ ]		Release 98	[ ]
D	Editorial modification	[ ]		Release 99	[X]
				Release 00	[ ]

Reason for change: The FW of TS 29.198 contains a few differences compared to Parlay 2.1, mainly in the area of different parameter names and data-types.
The naming of services (Service Capability Features) and interfaces (Framework capability features) is incorrect in TS 29.198.

Clauses affected: 8.2, 9.2

Other specs affected:

Other 3G core specifications	[ ]	→ List of CRs:
Other GSM core specifications	[ ]	→ List of CRs:
MS test specifications	[ ]	→ List of CRs:
BSS test specifications	[ ]	→ List of CRs:
O&M specifications	[ ]	→ List of CRs:

Other comments:

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8.2 Framework Data Definitions

8.2.1.11 TpServiceNameString

This data type is identical to a TpString, and is defined as a string of characters that uniquely identifies the name of an SCF interface. Other Network operator specific capabilities may also be used, but should be preceded by the string "SP_".The following values are defined for OSA release 99.

Character String Value	Description
NULL	An empty (NULL) string indicates no SCF name
P_CALL_CONTROL	The name of the Call Control SCF
P_USER_INTERACTION	The name of the User Interaction SCFs
P_TERMINAL_CAPABILITIES	The name of the Terminal Capabilities SCF
P_USER_LOCATION_CAMEL	The name of the Network User Location SCF
P_USER_STATUS	The name of the User Status SCF
P_DATA_SESSION_CONTROL	The name of the Data Session Control SCF

8.2.2.5 TpInterfaceName

This data type is identical to a TpString, and is defined as a string of characters that identify the names of the framework SCFs that are be supported by the OSA API. Other Network operator specific SCFs may also be used, but should be preceded by the string "SP_".The following values are defined for OSA release 99.

Character String Value	Description
NULL	An empty (NULL) string indicates no interface.
P_DISCOVERY	The name for the Discovery interface.
P_OAM	The name for the OA&M interface.
~~P_TRUST_AND_SECURITY_MANAGEMENT~~	~~The name for the Trust and Security Management interface~~
~~P_INTEGRITY_MANAGEMENT~~	~~The name for the Integrity Management interface.~~
P_LOAD_MANAGER	The name for the Load Manager interface.
P_FAULT_MANAGER	The name for the Fault Manager interface.
P_HEARTBEAT_MANAGEMENT	The name for the Heartbeat Management interface.
P_REGISTRATION	The name for the Service Registration interface.

9.2 Framework IDL

9.2.1 Common Data Types for the Framework

```
#include <OSA.idl>

module org{

module threegpp{

module osa{

module fw{


       typedef TpString       TpClientAppID;        // Identifies the client appl to the
             framework.

       typedef sequence       <TpClientAppID> TpClientAppIDList;

       typedef TpString TpEntOpID;

       typedef sequence < TpEntOpID >         TpEntOpIDList;


       typedef  TpString  TpServiceID;      // A string of characters, generated automatically
                          by the
                                    // Framework and comprising a TpUniqueServiceNumber,
                                    // TpServiceNameString, and a number of relevant
                                    // TpServiceSpecString, concatenated using a forward
                                    // separator (/), that uniquely identifies an
                                 instance of a
                                    // SCF interface.

       typedef sequence <TpServiceID>              TpServiceIDList;

      typedef TpString              TpServiceNameString;          // Uniquely identifies the
   name of an SCF
                                       // interface. For OSA release 99 the
                                    following
                                       // values have been defined: NULL (no SCF
                                    name),
                                       // P_CALL_CONTROL, P_USER_INTERACTION,
                                       // P_USER_LOCATION_CAMEL,
                                    P_TERMINAL_CAPABILITIES and
                                       // P_USER_STATUS.

..
```

9.2.3 Trust and Security Management IDL

```
#include <fw.idl>


module org{
module threegpp{
module osa{
module fw{
module trust_and_security{

      /*********************************************************************************
/
      //                                Data definitions
//
      /*********************************************************************************
/

       typedef TpString             TpAccessType;         // The type of access interface
requested by the client
                                    // application. For OSA release 99 the following
                                  values
```

```
                                    // have been defined: NULL (indicates the default
                                 access
                                    // type) and P_ACCESS.

        typedef TpString            TpAuthType;                 // The type of
authentication mechanism requested by the
                                    // client. For OSA release 99 the following values
                                 have
                                    // been defined: NULL (indicates OSA authentication),
                                    // P_AUTHENTICATION (indicates use of the OSA
                                    // authentication interfaces.

        typedef TpString      TpAuthCapability;           // The authentication capabilities
that could be supported
                                    // by the OSA. For OSA release 99 the following
                                 values
                                    // have been defined: NULL (indicates no client
                                    // capabilities, P_DES_56, P_RSA_512 and P_RSA_1024).

        typedef TpString            TpAuthCapabilityList; // A string of multiple
TpAuthCapability
                                          // concatenated using a commas.

        typedef TpString            TpInterfaceName;      // Identifies the names of the
framework SCFs that are be
                                    // supported by the OSA API. For release 99 these are
                                  NULL,
                                    // P_DISCOVERY, P_OAM,
                                    // P_LOAD_MANAGER,
                                    // P_FAULT_MANAGER,
                                    // P_HEARTBEAT_MANAGEMENT,
                                    // P_REGISTRATION P_TRUST_AND_SECURITY_MANAGEMENT
                                    // P_INTEGRITY_MANAGEMENT.
```

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CHANGE REQUEST

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29.198	CR	017R1	Current Version:	3.0.0

GSM (AA.BB) or 3G (AA.BBB) specification number ↑ *↑ CR number as allocated by MCC support team*

For submission to: CN#09 *list expected approval meeting # here ↑*	for approval	X	strategic		*(for SMG use only)*
	for information		non-strategic		

Form: CR cover sheet, version 2 for 3GPP and SMG *The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc*

Proposed change affects: *(at least one should be marked with an X)*	(U)SIM		ME		UTRAN / Radio		Core Network	X

Source: N5 **Date:** 27 August 2000

Subject: Alignment of Framework with Parlay 2.1, renaming of TpPropertyStruct to TpServiceTypeProperty

Work item: OSA

Category: *(only one category shall be marked with an X)*

F	Correction	X	**Release:**	Phase 2	
A	Corresponds to a correction in an earlier release			Release 96	
B	Addition of feature			Release 97	
C	Functional modification of feature			Release 98	
D	Editorial modification			Release 99	X
				Release 00	

Reason for change: The FW of TS 29.198 contains a few differences compared to Parlay 2.1, mainly in the area of different parameter names and data-types.
The data-type TpPropertyStruct in TS 29.198 captures properties associated with a service type. Therefore the data-type is better be renamed to TpServiceTypeProperty.

Clauses affected: 8.2, 9.2

Other specs affected:

Other 3G core specifications		→ List of CRs:
Other GSM core specifications		→ List of CRs:
MS test specifications		→ List of CRs:
BSS test specifications		→ List of CRs:
O&M specifications		→ List of CRs:

Other comments:

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8.2.1.14 TpServiceTypePropertyStruct

~~This data type is a Sequence of Data Elements which describes an SCF property. It consists of:~~ This data type is a `Sequence of Data Elements` which describes a service property associated with a service type. It defines the name and mode of the service property, and also the service property type: e.g. boolean, integer. It is similar to, but distinct from, `TpServiceProperty`. The latter is associated with an actual service: it defines the service property's name and mode, but also defines the list of values assigned to it.

Sequence Element Name	Sequence Element Type	Documentation
`ServicePropertyName`	TpServicePropertyTypeName	
`ServicePropertyMode`	TpServicePropertyMode	
`ServicePropertyTypeName`	TpServicePropertyTypeName	

8.2.1.15 TpServiceTypePropertyStructList

`This data type defines a Numbered Set of Data Elements of type TpServiceTypePropertyStruct.`

8.2.1.24 TpServiceTypeDescription

This type is left as a placeholder but is not used in release 99.
This data type is a Sequence_of_Data_Elements which describes an SCF type. It is a structured data type. It consists of:

Sequence Element Name	Sequence Element Type	Documentation
`ServiceTypePropertyStructList`	TpServiceTypePropertyStructList	a sequence of property name and property mode tuples associated with the SCF type
`ServiceTypeNameList`	TpServiceTypeNameList	the names of the super types of the associated SCF type
`EnabledOrDisabled`	TpBoolean	an indication whether the SCF type is enabled or disabled

9.2 Framework IDL

9.2.1 Common Data Types for the Framework

```
#include <OSA.idl>

module org{

module threegpp{

module osa{

module fw{

        ..

        struct TpServiceDescription {               // Describes the properties of a
registered SCF.
                TpServiceTypeName     ServiceTypeName;
                TpServicePropertyList ServicePropertyList;
        };

        struct TpServiceTypeProperty~~PropertyStruct~~ {                              // Describes
a SCF property.
                TpServiceProperty~~Type~~Name                          ServicePropertyName;
                TpServicePropertyMode         ServicePropertyMode;
                TpServicePropertyTypeName     ServicePropertyTypeName;
        };

        typedef sequence <TpServiceTypeProperty~~PropertyStruct~~>
        TpServiceTypeProperty~~PropertyStruct~~List;

        struct TpServiceTypeDescription {                   // Describes a SCF type.
                TpServiceTypeProperty~~PropertyStruct~~List
        ServiceTypeProperty~~PropertyStruct~~List;
                TpServiceTypeNameList         ServiceTypeNameList;
                TpBoolean                                   EnabledOrDisabled;
        };

};};};};
```

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CHANGE REQUEST

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29.198	CR	018R1	Current Version:	3.0.0

GSM (AA.BB) or 3G (AA.BBB) specification number ↑ *↑ CR number as allocated by MCC support team*

For submission to:	CN#09	for approval	X	strategic		(for SMG use only)
list expected approval meeting # here ↑		for information		non-strategic		

Form: CR cover sheet, version 2 for 3GPP and SMG *The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc*

Proposed change affects: *(at least one should be marked with an X)* (U)SIM [ ] ME [ ] UTRAN / Radio [ ] Core Network [X]

Source: N5 **Date:** 27 August 2000

Subject: Alignment of Framework with Parlay 2.1 addition of DES 128 bit authentication.

Work item: OSA

Category: *(only one category shall be marked with an X)*

F	Correction	X	**Release:**	Phase 2	
A	Corresponds to a correction in an earlier release			Release 96	
B	Addition of feature			Release 97	
C	Functional modification of feature			Release 98	
D	Editorial modification			Release 99	X
				Release 00	

Reason for change: The FW of TS 29.198 contains a few differences compared to Parlay 2.1, mainly in the area of different parameter names and data-types.
In TS 29.198 the DES 128 bit authentication capability is missing.

Clauses affected: 8.2, 9.2

Other specs affected:

Other 3G core specifications	[ ]	→ List of CRs:
Other GSM core specifications	[ ]	→ List of CRs:
MS test specifications	[ ]	→ List of CRs:
BSS test specifications	[ ]	→ List of CRs:
O&M specifications	[ ]	→ List of CRs:

Other comments:

help.doc

<--------- double-click here for help and instructions on how to create a CR.

8.2.2.3 TpAuthCapability

This data type is identical to a TpString, and is defined as a string of characters that identify the authentication capabilities that could be supported by the OSA. Other Network operator specific capabilities may also be used, but should be preceded by the string "SP_". Capabilities may be concatenated, using commas (,) as the separation character. The following values are defined for OSA release 99.

String Value	Description
NULL	An empty (NULL) string indicates no client capabilities.
P_DES_56	A simple transfer of secret information that is shared between the client application and the framework with protection against interception on the link provided by the DES algorithm with a 56bit shared secret key
P_DES_128	A simple transfer of secret information that is shared between the client entity and the framework with protection against interception on the link provided by the DES algorithm with a 128bit shared secret key
P_RSA_512	A public-key cryptography system providing authentication without prior exchange of secrets using 512 bit keys
P_RSA_1024	A public-key cryptography system providing authentication without prior exchange of secrets using 1024bit keys

9.2.3 Trust and Security Management IDL

```
#include <fw.idl>


module org{
module threegpp{
module osa{
module fw{
module trust_and_security{

      /*******************************************************************************************
/
      //                                  Data definitions
//
      /*******************************************************************************************
/

       typedef TpString             TpAccessType;         // The type of access interface
requested by the client
                                       // application. For OSA release 99 the following
                                     values
                                       // have been defined: NULL (indicates the default
                                     access
                                       // type) and P_ACCESS.

       typedef TpString             TpAuthType;                  // The type of
authentication mechanism requested by the
                                       // client. For OSA release 99 the following values
                                     have
                                       // been defined: NULL (indicates OSA authentication),
                                       // P_AUTHENTICATION (indicates use of the OSA
                                       // authentication interfaces.

       typedef TpString      TpAuthCapability;            // The authentication capabilities
that could be supported
                                       // by the OSA. For OSA release 99 the following
                                     values
                                       // have been defined: NULL (indicates no client
                                       // capabilities, P_DES_56, P_DES_128, P_RSA_512 and
                                     P_RSA_1024).
```

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Document N5-000175
e.g. for 3GPP use the format TP-99xxx
or for SMG, use the format P-99-xxx

CHANGE REQUEST

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29.198	CR	019R2	Current Version:	3.0.0

GSM (AA.BB) or 3G (AA.BBB) specification number ↑ *↑ CR number as allocated by MCC support team*

For submission to: CN#09 *list expected approval meeting # here ↑*

for approval [X] for information [ ]

strategic [ ] non-strategic [ ] *(for SMG use only)*

Form: CR cover sheet, version 2 for 3GPP and SMG *The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc*

Proposed change affects: *(at least one should be marked with an X)* (U)SIM [ ] ME [ ] UTRAN / Radio [ ] Core Network [X]

Source: N5 **Date:** 27 August 2000

Subject: Alignment of Framework with Parlay 2.1, improvement of load statistic data-types.

Work item: OSA

Category: *(only one category shall be marked with an X)*

F	Correction	[X]
A	Corresponds to a correction in an earlier release	[ ]
B	Addition of feature	[ ]
C	Functional modification of feature	[ ]
D	Editorial modification	[ ]

Release:

Phase 2	[ ]
Release 96	[ ]
Release 97	[ ]
Release 98	[ ]
Release 99	[X]
Release 00	[ ]

Reason for change:
The FW of TS 29.198 contains a few differences compared to Parlay 2.1, mainly in the area of different parameter names and data-types.
The data-types related to load statistics in Parlay 2.1 have been improved with respect to:
- information that can be retrieved (entity providing the statistics)
- having an indication that the load statistics are invalid

Clauses affected: 8.2, 9.2

Other specs affected:

Other 3G core specifications	[ ]	→ List of CRs:
Other GSM core specifications	[ ]	→ List of CRs:
MS test specifications	[ ]	→ List of CRs:
BSS test specifications	[ ]	→ List of CRs:
O&M specifications	[ ]	→ List of CRs:

Other comments:

help.doc

<--------- double-click here for help and instructions on how to create a CR.

8.2.3.12 TpLoadPolicy

Defines the load balancing policy.

Sequence Element Name	Sequence Element Type
LoadPolicy	TpString

~~8.2.3.13 TpLoadStatistic~~

~~Defines the Sequence of Data Elements that specify the load statistic record at given timestamp.~~

~~Sequence Element Name~~	~~Sequence Element Type~~
~~ServiceID~~	~~TpServiceID~~
~~LoadValue~~	~~TpFloat~~
~~LoadLevel~~	~~TpLoadLevel~~
~~TimeStamp~~	~~TpDateAndTime~~

~~LoadValue is expressed in percentage.~~

~~8.2.3.14 TpLoadStatList~~

~~Defines a Numbered Set of Data Elements of TpLoadStatistic.~~

~~8.2.3.15 TpLoadStatusError~~

~~Defines the error code for getting the load status.~~

~~Name~~	~~Value~~	~~Description~~
~~LOAD_STATUS_ERROR_UNDEFINED~~	~~0~~	~~Undefined error~~
~~LOAD_STATUS_ERROR_UNAVAILABLE~~	~~1~~	~~Unable to get the load status~~

~~8.2.3.16 TpLoadStatisticError~~

~~Defines the Sequence of Data Elements that specify the error for getting the load status at given timestamp.~~

~~Sequence Element Name~~	~~Sequence Element Type~~
~~ServiceID~~	~~TpServiceID~~
~~LoadStatusError~~	~~TpFloat~~
~~TimeStamp~~	~~TpDateAndTime~~

~~8.2.3.17 TpLoadStatisticErrorList~~

~~Defines a Numbered Set of Data Elements of TpLoadStatisticsError.~~

TpLoadStatistic

Defines the Sequence of Data Elements that represents a load statistic record for a specific entity (i.e. framework, service or application) at a specific date and time.

Sequence Element Name	Sequence Element Type
LoadStatisticEntityID	TpLoadStatisticEntityID
TimeStamp	TpDateAndTime
LoadStatisticInfo	TpLoadStatisticInfo

TpLoadStatisticList

Defines a Numbered List of Data Elements of type TpLoadStatistic.

TpLoadStatisticData

Defines the Sequence of Data Elements that represents load statistic information

Sequence Element Name	Sequence Element Type
LoadValue	TpFloat
LoadLevel	TpLoadLevel

Note: LoadValue is expressed as a percentage.

TpLoadStatisticEntityID

Defines the Tagged Choice of Data Elements that specify the type of entity (i.e. service, application or framework) providing load statistics.

	Tag Element Type	
	TpLoadStatisticEntityType	

Tag Element Value	Choice Element Type	Choice Element Name
P_LOAD_STATISTICS_FW_TYPE	TpFwID	FrameworkID
P_LOAD_STATISTICS_SVC_TYPE	TpServiceID	ServiceID
P_LOAD_STATISTICS_APP_TYPE	TpClientAppID	ClientAppID

TpLoadStatisticEntityType

Defines the type of entity (i.e. service, application or framework) supplying load statistics.

Name	Value	Description
P_LOAD_STATISTICS_FW_TYPE	0	Framework-type load statistics
P_LOAD_STATISTICS_SVC_TYPE	1	Service-type load statistics
P_LOAD_STATISTICS_APP_TYPE	2	Application-type load statistics

TpLoadStatisticInfo

Defines the Tagged Choice of Data Elements that specify the type of load statistic information (i.e. valid or invalid).

	Tag Element Type	
	TpLoadStatisticInfoType	

Tag Element Value	Choice Element Type	Choice Element Name
P_LOAD_STATISTICS_VALID	TpLoadStatisticData	LoadStatisticData
P_LOAD_STATISTICS_INVALID	TpLoadStatisticError	LoadStatisticError

TpLoadStatisticInfoType

Defines the type of load statistic information (i.e. valid or invalid).

Name	Value	Description
P_LOAD_STATISTICS_VALID	0	Valid load statistics
P_LOAD_STATISTICS_INVALID	1	Invalid load statistics

TpLoadStatisticError

Defines the error code associated with a failed attempt to retrieve any load statistics information.

Name	Value	Description
P_LOAD_INFO_ERROR_UNDEFINED	0	Undefined error
P_LOAD_INFO_UNAVAILABLE	1	Load statistics unavailable

9.2.4 Integrity Management IDL

```
#include <fw.idl>

..

        struct TpLoadStatistic {                        // The load statistic record at given
timestamp.
                TpServiceID             ServiceID;
                TpFloat                 LoadValue;              // Expressed in percentage.
                TpLoadLevel             LoadLevel;
                TpDateAndTime           TimeStamp;
        };

typedef sequence <TpLoadStatistic>    TpLoadStatisticList;

        enum TpLoadStatusError {                        // The error code for getting the load
status.
                LOAD_STATUS_ERROR_UNDEFINED,            // Undefined error.
                LOAD_STATUS_ERROR_UNAVAILABLE           // Unable to get the load status.
        };

        struct TpLoadStatisticError {                   // The error for getting the load status
at given timestamp.
                TpServiceID             ServiceID;
                TpFloat                 LoadStatusError;
                TpDateAndTime           TimeStamp;
        };

      typedef sequence <TpLoadStatisticError>       TpLoadStatisticErrorList;

        enum TpLoadStatisticEntityType {
                P_LOAD_STATISTICS_FW_TYPE,
                P_LOAD_STATISTICS_SVC_TYPE,
                P_LOAD_STATISTICS_APP_TYPE
        };

        union TpLoadStatisticEntityID switch(TpLoadStatisticEntityType)
        {
                case P_LOAD_STATITICS_FW_TYPE:
                TpFwID FrameworkID;
                case P_LOAD_STATITICS_SVC_TYPE:
                TpServiceID ServiceID;
                case P_LOAD_STATITICS_APP_TYPE:
                TpClientAppID ClientAppID;
        };

        struct TpLoadStatisticData {
                TpFloat                 LoadValue;              // Expressed in percentage.
                TpLoadLevel             LoadLevel;
        };

        enum TpLoadStatisticError {
                P_LOAD_INFO_ERROR_UNDEFINED,
                P_LOAD_INFO_UNAVAILABLE
        };

        enum TpLoadStatisticInfoType {
                P_LOAD_STATISTICS_VALID,
                P_LOAD_STATISTICS_INVALID
        };

        union TpLoadStatisticInfo switch(TpLoadStatisticInfoType)
        {
                case P_LOAD_STATISTICS_VALID:
                TpLoadStatisticData LoadStatisticData;
                case P_LOAD_STATISTICS_INVALID:
                TpLoadStatisticError LoadStatisticError;
        };

        struct TpLoadStatistic {
                TpLoadStatisticEntityID             LoadStatisticEntityID;
                TpDateAndTime           TimeStamp;
                TpLoadStatisticInfo     LoadStatisticInfo;
        };

        typedef sequence <TpLoadStatistic>    TpLoadStatisticList;
```

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Document N5-000147
e.g. for 3GPP use the format TP-99xxx
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29.198	CR	020R1	Current Version:	3.0.0

GSM (AA.BB) or 3G (AA.BBB) specification number ↑ *↑ CR number as allocated by MCC support team*

For submission to:	CN#09	for approval	X	strategic		(for SMG use only)
list expected approval meeting # here ↑		for information		non-strategic		

Form: CR cover sheet, version 2 for 3GPP and SMG *The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc*

Proposed change affects: *(at least one should be marked with an X)*	(U)SIM		ME		UTRAN / Radio		Core Network	X

Source: N5 **Date:** 27 August 2000

Subject: Correction in descriptive text for Call STD regarding user interaction in 2 Parties in Call State.

Work item: OSA

Category: *(only one category shall be marked with an X)*

F	Correction	X	**Release:**	Phase 2	
A	Corresponds to a correction in an earlier release			Release 96	
B	Addition of feature			Release 97	
C	Functional modification of feature			Release 98	
D	Editorial modification			Release 99	X
				Release 00	

Reason for change:
In case the calling party answers a call and the application is monitoring in interrupt mode no user interaction is possible for a Call Control SCF built on top of the CSE due to the fact that :
- The CAP operations initiating user-interaction (CTR/ETC) will lead to an ANM to be sent to the calling party.
- This means a both-way-through connection is established.
- However user-interaction to more than one party is not possible in CAMELv3.

Clauses affected: 7.2.2.1.2

Other specs affected:

Other 3G core specifications		→ List of CRs:	
Other GSM core specifications		→ List of CRs:	
MS test specifications		→ List of CRs:	
BSS test specifications		→ List of CRs:	
O&M specifications		→ List of CRs:	

Other comments:

help.doc

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7.2.2.1.2 2 Parties in Call state

A connection between two parties has been established.
In case the calling party disconnects, the gateway informs the application by invoking callEnded().
When the called party disconnects different situations apply:

1. the application is monitoring for this event in interrupt mode: a transition is made to the 1 Party in Call state, the application is informed with routeRes with indication that the called party has disconnected and all requested reports are sent to the application. The application now again has control of the call.
2. the application is monitoring for this event but not in interrupt mode. In this case a transition is made to the Network Released state and the gateway informs the application by invoking the operation routeRes() and callEnded().
3. the application is not monitoring for this event. In this case the application is informed by the gateway invoking the callEnded() operation and a transition is made to the Network Released state.

~~In this state user interaction is possible, but only when the application requested to be notified of the transition to this state in interrupt mode. After the user interaction is finished the gateway will automatically continue processing of the call.~~

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***Document* N5-000151**
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CHANGE REQUEST

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29.198	CR	021	Current Version:	3.0.0

GSM (AA.BB) or 3G (AA.BBB) specification number ↑ *↑ CR number as allocated by MCC support team*

For submission to:	CN#9	for approval	X	strategic		(for SMG use only)
list expected approval meeting # here ↑		for information		non-strategic		

Form: CR cover sheet, version 2 for 3GPP and SMG *The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc*

Proposed change affects: (U)SIM [ ] ME [ ] UTRAN / Radio [ ] Core Network [X]
(at least one should be marked with an X)

Source: N5 **Date:** 1st September 2000

Subject: Removal of double description of the type TpCallServiceCode

Work item: OSA

Category: *(only one category shall be marked with an X)*

F	Correction	X	**Release:**	Phase 2	
A	Corresponds to a correction in an earlier release			Release 96	
B	Addition of feature			Release 97	
C	Functional modification of feature			Release 98	
D	Editorial modification			Release 99	X
				Release 00	

Reason for change: The type TpCallServiceCode is described in chapter 8.3.3.21 and again in 8.3.3.31 in a different way. The latter is suggested to be removed.

Clauses affected: 8.3.3.31

Other specs affected:

Other 3G core specifications	[ ]	→ List of CRs:
Other GSM core specifications	[ ]	→ List of CRs:
MS test specifications	[ ]	→ List of CRs:
BSS test specifications	[ ]	→ List of CRs:
O&M specifications	[ ]	→ List of CRs:

Other comments:

help.doc

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~~8.3.3.31 TpCallServiceCode~~

~~Defines the service code received during a call. For example, this may be a digit sequence, user-user information, recall, flash-hook or ISDN Facility Information Element.~~

~~This data type is identical to a TpString. The coding of this data type is operator specific. However, the values defined in ISUP ITU Recommendation Q.763 are suggested for this data type.~~

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Bristol, UK, 5-7 September 2000

Document N5-000177
e.g. for 3GPP use the format TP-99xxx
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CHANGE REQUEST

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29.198	CR	022R1	Current Version:	3.0.0

GSM (AA.BB) or 3G (AA.BBB) specification number ↑ *↑ CR number as allocated by MCC support team*

For submission to:	CN#9	for approval	X	strategic		(for SMG use only)
list expected approval meeting # here ↑		for information		non-strategic		

Form: CR cover sheet, version 2 for 3GPP and SMG *The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc*

Proposed change affects: *(at least one should be marked with an X)* (U)SIM [ ] ME [ ] UTRAN / Radio [ ] Core Network [X]

Source: N5 **Date:** 1st September 2000

Subject: Removal of the unused types TpUIMessageCriteria~~, TpEntOpID and TpEntOpIDList~~

Work item: Virtual Home Environment

Category: *(only one category shall be marked with an X)*

F	Correction		**Release:**	Phase 2	
A	Corresponds to a correction in an earlier release			Release 96	
B	Addition of feature			Release 97	
C	Functional modification of feature			Release 98	
D	Editorial modification	X		Release 99	X
				Release 00	

Reason for change: The type~~s~~ TpUIMessageCriteria~~, TpEntOpID and TpEntOpIDList are~~ is not used in OSA. Thus it~~they~~ should be removed from the data definitions, but not necessarily from the IDL.

Clauses affected: ~~8.2.1.3, 8.2.1.4,~~ 8.4.2.13

Other specs affected:

Other 3G core specifications	[ ]	→ List of CRs:
Other GSM core specifications	[ ]	→ List of CRs:
MS test specifications	[ ]	→ List of CRs:
BSS test specifications	[ ]	→ List of CRs:
O&M specifications	[ ]	→ List of CRs:

Other comments:

help.doc

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8.2.1.3 TpEntOpID

This data type is identical to TpString and is defined as a string of characters that identifies an enterprise operator. In conjunction with the application it uniquely identifies the enterprise operator which uses a particular OSA Service Capability Feature.

8.2.1.4 TpEntOpIDList

This data type defines a Numbered Set of Data Elements of type TpEntOpID.

8.4.2.13 TpUIMessageCriteria

Defines the Sequence of Data Elements that specify the additional properties for the recording of a message

Structure Element Name	Structure Element Type
EndSequence	TpString
MaxMessageTime	TpDuration
MaxMessageSize	TpInt32

The structure elements specify the following criteria:

EndSequence: Defines the character or characters which terminate an input of variable length, e.g. phonenumbers.

MaxMessageTime: specifies the maximum duration in seconds of the message that is to be recorded.

MaxMessageSize: If this parameter is non-zero, it specifies the maximum size in bytes of the message that is to be recorded.

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Bristol, 5-7 Sept 2000

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CHANGE REQUEST

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29.198	CR	023	Current Version:	3.0.0

GSM (AA.BB) or 3G (AA.BBB) specification number ↑ *↑ CR number as allocated by MCC support team*

For submission to: CN#09 *list expected approval meeting # here ↑*

for approval [X] for information [ ]

strategic [ ] non-strategic [ ] *(for SMG use only)*

Form: CR cover sheet, version 2 for 3GPP and SMG *The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc*

Proposed change affects: *(at least one should be marked with an X)* (U)SIM [ ] ME [ ] UTRAN / Radio [ ] Core Network [X]

Source: N5 **Date:** 4 Sept, 2000

Subject: Alignment of Framework with Parlay 2.1, addition of setCallbackWithSessionID operation to IpService.

Work item: OSA

Category: *(only one category shall be marked with an X)*

F	Correction	[X]
A	Corresponds to a correction in an earlier release	[ ]
B	Addition of feature	[ ]
C	Functional modification of feature	[ ]
D	Editorial modification	[ ]

Release:

Phase 2	[ ]
Release 96	[ ]
Release 97	[ ]
Release 98	[ ]
Release 99	[X]
Release 00	[ ]

Reason for change: In order to have the possibility to specify a reference address of the application's callback interface for interaction with a specific session : e.g. a specific call, a new operation, called setCallbackWithSessionID to IpService should be added.

Clauses affected: 6,9

Other specs affected:

Other 3G core specifications	[ ]	→ List of CRs:
Other GSM core specifications	[ ]	→ List of CRs:
MS test specifications	[ ]	→ List of CRs:
BSS test specifications	[ ]	→ List of CRs:
O&M specifications	[ ]	→ List of CRs:

Other comments:

help.doc

<--------- double-click here for help and instructions on how to create a CR.

6.1 Class diagrams common across OSA

All application and framework interfaces inherit from IpOsa interface. Network Service Capability Features on the other hand inherit from the common IpService interface. The corresponding interfaces that must be implemented by the application (e.g. for API callbacks) are denoted as 'Application Interface'.

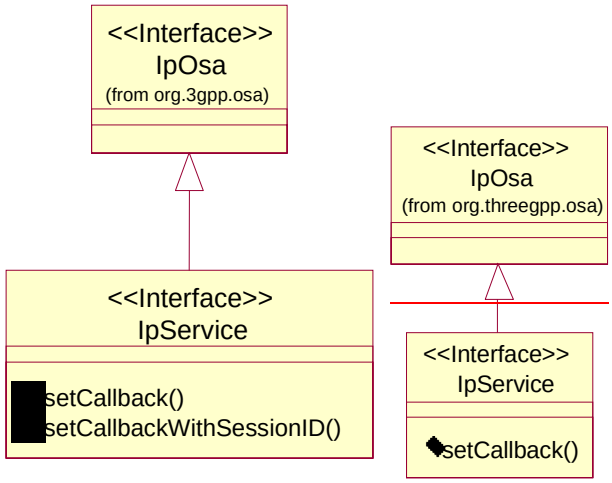

Figure 6-1: OSA base interfaces

6.1.1 Base OSA interface

All application and framework interfaces inherit from the following interface.

<<Interface>> IpOsa

6.1.2 Generic Service Capability Feature interface

All Network SCF's interfaces inherit from the following interface.

<<Interface>> IpService
setCallback(appInterface : in IpOsaRef) : TpResult setCallbackWithSessionID(appInterface : in IpOsaRef, sessionID : in TpSessionID): TpResult

9 IDL Interface Definitions

The OSA API definitions have been divided into several CORBA modules. The common data definitions are placed in the root module while each of the specific service capability feature API definitions are being assigned their own module directly under that root. Each specific SCF functions, like User Status, have their data and interface definitions collocated. This structure has the advantage that explicit scoping is kept to a minimum. The IDLs defined for the specific SCFs assumes that the OSA common definitions (interfaces and data) are provided in the org.threegpp.osa module within a file name called OSA.idl

Module Name	Description	IDL file name
org.threegpp.osa	Common data/interface definitions	OSA.idl
org.threegpp.osa.mm	Common mobility data definitions (root)	MM.idl
org.threegpp.osa.mm.ul	Network User Location (UL)	MMul.idl
org.threegpp.osa.mm.us	User Status (US)	MMus.idl
org.threegpp.osa.cc	Call Control	CC.idl
org.threegpp.osa.ui	User Interaction	UI.idl
org.threegpp.osa.termcap	Terminal Capabilities	TERMCAP.idl

9.1 Generic IDL

```
#ifndef __OSA_DEFINED
#define __OSA_DEFINED

..

        /*************************************************************************/
                        //                          base OSA interface
        /*************************************************************************/

                        // All application, framework and service capability features interfaces
inherit
                        // from the following interface. This API Base Interface does not
provide any
                        // additional methods.
                        interface IpOsa
                        {
                        };

                        // All service capability feature interfaces inherit from the following
interface.
                        interface IpService : IpOsa
                        {
                                // This method specifies the reference address of the callback
interface
                                // that a SCF uses to invoke methods on the application.
                                void setCallback(in IpOsa appInterface)
raises(TpGeneralException);
                                void setCallbackWithSessionID(in IpOsa appInterface, in
TpSessionID sessionID) raises(TpGeneralException);
                        };
                };
        };
};

#endif
```

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Bristol, 5-7 Sept 2000

Document N5-000174
e.g. for 3GPP use the format TP-99xxx
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CHANGE REQUEST

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29.198	CR	024	Current Version:	3.0.0

GSM (AA.BB) or 3G (AA.BBB) specification number ↑ *↑ CR number as allocated by MCC support team*

For submission to: CN#09 *list expected approval meeting # here ↑*

for approval [X] for information [ ]

strategic [ ] non-strategic [ ] *(for SMG use only)*

Form: CR cover sheet, version 2 for 3GPP and SMG *The latest version of this form is available from: ftp://ftp.3gpp.org/Information/CR-Form-v2.doc*

Proposed change affects: *(at least one should be marked with an X)* (U)SIM [ ] ME [ ] UTRAN / Radio [ ] Core Network [X]

Source: N5 **Date:** 27 August 2000

Subject: Clarification of life time of parameters in TpAuthDomain

Work item: OSA

Category: *(only one category shall be marked with an X)*

F	Correction	[X]
A	Corresponds to a correction in an earlier release	[ ]
B	Addition of feature	[ ]
C	Functional modification of feature	[ ]
D	Editorial modification	[ ]

Release:

Phase 2	[ ]
Release 96	[ ]
Release 97	[ ]
Release 98	[ ]
Release 99	[X]
Release 00	[ ]

Reason for change: The TpAuthDomain data-type consists of two different data-types that have a different life-time. This CR proposes to add clarification text regarding this.

Clauses affected: 6.2, 8.2, 9.2

Other specs affected:

Other 3G core specifications	[ ]	→ List of CRs:
Other GSM core specifications	[ ]	→ List of CRs:
MS test specifications	[ ]	→ List of CRs:
BSS test specifications	[ ]	→ List of CRs:
O&M specifications	[ ]	→ List of CRs:

Other comments:


help.doc

<--------- double-click here for help and instructions on how to create a CR.

8.2 Framework Data Definitions

..

8.2.2.4 TpAuthCapabilityList

This data type is identical to a TpString. It is a string of multiple TpAuthCapability concatenated using a comma (,)as the separation character.

TpAuthDomain

This is Sequence of Data Elements containing all the data necessary to identify a domain: ~~jthe~~the domain identifier, and a reference to the authentication interface of the domain

Sequence Element Name	Sequence Element Type	Description
DomainID	TpDomainID	Identifies the ~~entity~~domain for authentication. This ~~data~~ identifier is assigned to the domain during the initial contractual agreements, and is valid during the lifetime of the contract.
AuthInterface	IpOSARef	Identifies the authentication interface of the specific entity. This data element has the same lifetime as the domain authenti~~-~~cation process, i.e. in principle a new interface reference can be~~is~~ provided each time a domain intent~~d~~s to access another. ~~interact with~~