TSGS#13(01)0522

Technical Specification Group Services and System Aspects Meeting #13, Beijing, China, 24-27 September 2001

Source: SA5

Title: Rel-4 CR32.102, 32.111-2 & 32.303 on Rule for IDL file names

Document for: Approval

Agenda Item: 7.5.3

| Doc-1st- Level | Doc-2nd- Level | Spec | CR | Rev | Phase | Subject | | Versio n | Version -New | Workitem |
|-------------------|-------------------|----------|-----|-----|-------|---|---|-------------|--------------|----------|
| | | | | | | | | Current | | |
| SP-010475 | S5-010523 | 32.102 | 017 | | Rel-4 | Specify the Rule for IDL file names | F | 4.1.0 | 4.2.0 | OAM-AR |
| SP-010475 | S5-010568 | 32.111-3 | 012 | | Rel-4 | Eliminate guesses on IDL file names in Alarm IRP: CORBA SS | F | 4.0.0 | 4.1.0 | OAM-FM |
| SP-010475 | S5-010567 | 32.303 | 001 | | | Eliminate guesses on IDL file names in Notification IRP: CORBA SS | F | 4.0.0 | 4.1.0 | OAM-CM |

| CHANGE REQUEST | | | | | | | | | | | |
|-------------------------------|------------------------------|--|--|--------------------|-------------|----------|---------------|--|--|---|-----------------|
| * | 32.10 | D2 CR | 017 | ж | ev | _ 8 | ¥ | Current vers | sion: | 4.1.0 | ж |
| For <u>HELP</u> on us | sing this | form, see | e bottom of | this pag | ge or i | look at | t the | pop-up text | over t | the # syr | nbols. |
| Proposed change a | affects: | ₩ (U) | SIM | ME/UE | | Radio | Aco | cess Networl | k | Core Ne | etwork X |
| Title: 第 | Specif | y the Rule | e for IDL file | names | 6 | | | | | | |
| Source: # | SA5 | | | | | | | | | | |
| Work item code: ₩ | OAM- | AR | | | | | | Date: ૠ | 07/0 | 9/2001 | |
| Category: 第 | Use one F (A B C D Detailed | correction, correspon addition o functional editorial m explanation | ds to a corre | ction in a | re) | | ease, | Release: 器 Use <u>one</u> of 2) R96 R97 R98 R99 REL-4 REL-5 | the foli (GSM (Relea (Relea (Relea | lowing rele Phase 2) ase 1996) ase 1997) ase 1998) ase 1999) ase 4) | eases: |
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| Summary of chang | | ld a subse ogramme | | specify | y the i | rule th | at el | l <mark>iminates the</mark> | gues | ses by ID | L |
| Consequences if not approved: | # II | DL progra | mmer has t | o make | gues | ses (s | ee " | reason for cl | hange' | "). | |
| Clauses affected: | ₩ A | nnex F. | | | | | | | | | |
| Other specs affected: | ж х | Test spe | ore specifications ecifications ecifications | | ж | 32.3 | 03, | 32.111-3 | | | |
| Other comments: | | | CR32.111-3 ed to this "P | | | | | CR32.303- S5-010523 | 001_S | 5-010567 | 7 |

Annex F (normative): Rules for CORBA Solution Sets

F.3.5 Encoding rule of absence semantics

The absence semantics for parameter is type dependent. For a string type, the absence semantics is a string of zero length. For an integer type, it is the highest possible positive number. For a boxed valueType (supported by CORBA 2.3), it is the null value.

F.4 IDL file name rule

CORBA IDL uses "#include "X"" statement where X is a name of a file containing IDL statements. In the CORBA Solution Set, IDL statements are specified.

The rule defined here specifies

- (a) the IDL statements that shall belong to one file; and
- (b) the name of the file.

Rule: In the Annex where IDL statements are defined, use a special marker to indicate that a set of IDL statements shall be contained in one file. The name of the file shall be the name of the first IDL module of that set (of IDL statements). Multiple markers can be used.

| CHANGE REQUEST | | | | | | | | | | | | CR-Form-v4 | | |
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| Title: | | Ж | Elim | inate | guesse | s on IDL | file na | mes i | n Aları | m IRI | P: CORBA | SS | | |
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Annex A (normative): IDL specification (file name "AlarmIRPConstDefs.idl")

```
#ifndef AlarmIRPConstDefs_idl
#define AlarmIRPConstDefs_idl
#include "CosNotification.idl"
#include "ManagedGenericIRPConstDefs.idl"
#include "CosNotification.idl"
#include "generic.idl"
#ifndef AlarmIRP_idl
#define AlarmIRP_idl
// This statement must appear after all include statements
#pragma prefix "3gppsa5.org"
/* ## Module: AlarmIRPConstDefs
This module contains commonly used definitions for Alarm IRP
______
module AlarmIRPConstDefs
  Define the this Alarm IRPVersion.
  This string is used for the return value of
```

```
Define the structure returned when an operation fails for a set of alarm ids.
A reason is provided in order to indicate why the operation failed.

*/
struct BadAlarmInformationIdSeq
{
    string alarm_information_reference;
    string reason;
};

typedef sequence <string> AlarmInformationIdSeq;
    typedef CosNotification::EventBatch AlarmInformationSeq;

};

#endif
```

IDL specification (file name "AlarmIRPSystem.idl")

| CHANGE REQUEST | | | | | | | | | | | |
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| Source: | ₩ <mark>S</mark> A | \ 5 | | | | | | | | | |
| Work item c | ode: 第 <mark>○</mark> / | AM-CM | | | | | | Date: 3 | g 07/ | /09/2001 | |
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| Consequent not approve | | IDL program | mer has to r | make (| guess | es (s | ee " | reason for o | change | e"). | |
| Clauses affe | ected: # | Annex where | IDL statem | nents a | re de | fined | | | | | |
| Other specs affected: | : * | Other core Test speci | | ons | * | 32.1 | 02, | 32.111-3 | | | |
| Other comm | nents: # | The present are "Children only if the "Pa | " of the "Pa | rent" (| CR32. | | | | | | |

Annex A (normative):

Notification IRP CORBA IDL Specification (file name "ManagedGenericIRPConstDefs.idl")

```
The parameter_list contains a list of strings. Each string shall be
    the actual parameter name (ex. "manager_reference", "filter", etc.)
    */
    struct Method
    {
        MethodName name;
        ParameterList parameter_list;
    };

    /*
    List of all methods and their associated parameters.
    */
    typedef sequence <Method> MethodList;
};

#endif
```

IDL Specification (file name "ManagedGenericIRPSystem.idl")

```
#ifndef ManagedGenericIRPSystem_idl
#define ManagedGenericIRPSystem_idl
  This statement must appear after all include statements
#pragma prefix "3gppsa5.org"
/* ## Module: ManagedGenericIRPSystem
This module contains definitions commonly used among all IRPs such as Alarm IRP.
______
* /
module ManagedGenericIRPSystem
  Exception thrown when an unsupported optional parameter
  is passed with information.
  The parameter shall be the actual unsupported parameter name.
  exception ParameterNotSupported { string parameter; };
  Exception thrown when an invalid parameter value is passed.
  The parameter shall be the actual parameter name.
  exception InvalidParameter { string parameter; };
  Exception thrown when an unsupported optional method is called.
  exception OperationNotSupported {};
};
#endif
```

IDL Specification (file name "NotificationIRPConstDefs.idl")

```
#ifndef NotificationIRPConstDefs_idl
#define NotificationIRPConstDefs_idl
#include "ManagedGenericIRPConstDefs.idl"
// This statement must appear after all include statements
#pragma prefix "3gppsa5.org"
#include "CosNotifyChannelAdmin.idl"
#include "generic.idl"
#ifndef NotificationIRP_idl
#define NotificationIRP_idl
// This statement must appear after all include statements
#pragma prefix "3gppsa5.org"
/* ## Module: NotificationIRPConstDefs
This module contains definitions specific for Notification IRP.
______
* /
module NotificationIRPConstDefs
{
  Define the current Notification IRP version.
```

```
/*
   This indicates if the subscription is Active (not suspended), Suspended,
   or Invalid.
   */
   enum SubscriptionState {Active, Suspended, Invalid};
};

#endif
```

IDL Specification (file name "NotificationIRPSystem.idl")