#### TSGS#21(03)0402 Technical Specification Group Services and System Aspects Meeting #21, Frankfurt am Main, Germany, 22-25 September 2003

**SA5** (Telecom Management) Source:

Title:

2 Rel-4/5 CR 32.102 (Telecommunication management; Architecture) : Correction of subclause X.2.1 in Annex C

**Approval Document for:** 

Agenda Item: 7.5.3

| Doc-1st-Level | Spec   | CR  | Rev | Phase | Subject                                  | Cat | Version-Current | Doc-2nd-Level | Workitem |
|---------------|--------|-----|-----|-------|------------------------------------------|-----|-----------------|---------------|----------|
| SP-030402     | 32.102 | 028 | -   | Rel-4 | Correction of subclause X.2.1 in Annex C | F   | 4.3.0           | S5-036611     | OAM-AR   |
| SP-030402     | 32.102 | 029 | -   | Rel-5 | Correction of subclause X.2.1 in Annex C | Α   | 5.3.0           | S5-036613     | OAM-AR   |

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| *                                   | 32.102                                                                                                              | CR <mark>028</mark>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | жrev                                                                                                                              | <b>-</b> # 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| Clauses affected:                   | ₩ Ann                                                                                                               | ex C X.1, X.2, X.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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#### How to create CRs using this form:

Other comments:

Comprehensive information and tips about how to create CRs can be found at <a href="http://www.3gpp.org/specs/CR.htm">http://www.3gpp.org/specs/CR.htm</a>. 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.

策 Rel-5 Mirror CR in S5-036613.

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 <a href="ftp://ftp.3gpp.org/specs/">ftp://ftp.3gpp.org/specs/</a> 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.

#### Change in Annex C

## Annex C (informative): Information Service template

This annex contains the template to be used for the <u>IRP</u> Information Services documents <u>TSs</u> produced within the 3GPP SA <u>WGTSG</u>5. This template is based on the latest 3GPP template which **must** be used for any 3GPP Technical Specification.

The introductory clauses of the 3GPP template (from clause 1 to clause 3) are unchanged.

This template is numbered starting with "X", which; in general should correspond to <u>clause</u> 4 which is the beginning of the main text document. However, if there is a need for a specific IS to introduce additional clauses in the body, X may correspond to a number higher than 4. For an NRM only clause X shall be used.

The conclusive clauses/annexes of the 3GPP template are unchanged.

## X Information Object Classes

-- 'X' represents a <u>clause number in the actual Information Service TS.</u>

## X.1 Information entities imported and local labels

-- <u>T</u>this clause identifies a list of information entities (e.g. information object class, information relationship, information attribute) that have been defined in other specifications and that are imported in this specification. This includes information entities from other specifications imported for inheritance purpose. Each element of this list is a pair (label reference, local label). The label reference contains the name of the specification where it is defined, the type of the information entity and its name. The local label of imported information entities can then be used throughout the specification instead of the label reference.

-- Tthis information is provided in a table. An example of such a table is given here below:

| Label reference                              | Local label |
|----------------------------------------------|-------------|
| 32.106-5 [10], information object class, Top | Тор         |

## X.2 Class diagram

## X.2.1 Attributes and relationships

- -- #This first diagram represents all information object classes defined in this IS with all their relationships and all their attributes. This diagram shall contain relationship names, role name and role cardinality. This shall be a UML compliant class diagram.
- -- Characteristics (attributes, relationships) of imported information object classes need not to be repeated in the diagram. Names of information elements (class, attribute) defined in the IS and which scope is local to this IS must be prefixed by a 3 characters prefix uniquely identifying the IS. Information object classes should be defined using the stereotype <<InformationObjectClass>>. On the class diagram, each attribute in an information object class shall be qualified as "protected" by the addition of a symbol "#" before each attribute.

#### X.2.2 Inheritance

- -- <u>T</u>this second diagram represents the inheritance hierarchy of all information object classes defined in this IS. This diagram does not need to contain the complete inheritance hierarchy but shall at least contain the parent information object classes of all information object classes defined in this specification. By default, an information object class inherits from the information object class "top". This shall be a UML compliant class diagram.
- -- Characteristics (attributes, relationships) of imported information object classes need not to be repeated in the diagram. Information object classes should be defined using the stereotype <<InformationObjectClass>>.
- -- Note-: some inheritance relationships presented in X.2.2 can be repeated in X.2.1 to enhance readability.

## X.3 Information object classes definition

-- <u>E</u>each information object class is defined using the following structure:

### X.3.a InformationObjectClassName

- -- InformationObjectClassName is the name of the information object class.
- -- 'a' represents a number, starting at 1 and increasing by 1 with each new definition of an information object class.

#### X.3.a.1 Definition

-- The <definition> sub-clause is written in natural language. The <definition> sub-clause refers to the information object class itself. The characteristics related to the relationships that the object class can have with other object classes can't be found in the definition. The reader has to refer to relationships definition to find such kind of information. Information related to inheritance shall be precised here.

#### X.3.a.2 Attributes

- -- The <attributes> sub-clause presents the list of attributes, which are the manageable properties of the object class-. Each element is a pair (attributeName, supportQualifier). The supportQualifier indicates whether the attribute is Mandatory, Optional or Conditional (M, O, C).
- -- <u>T</u>this information is provided in a table. An example of such a table is given here below:

| Attribute name    | Support Qualifier |
|-------------------|-------------------|
| ntfSubscriptionId | M                 |

#### **End of Change in Annex C**

# Annex G (informative): Change history

|          | Change history |           |     |     |                                                                                            |       |       |  |  |  |  |
|----------|----------------|-----------|-----|-----|--------------------------------------------------------------------------------------------|-------|-------|--|--|--|--|
| Date     | TSG #          | TSG Doc.  | CR  | Rev | Subject/Comment                                                                            | Old   | New   |  |  |  |  |
| Dec 1999 | S_06           | SP-99578  |     |     | Approved at TSG SA #6 and placed under Change Control                                      | -     | 3.0.0 |  |  |  |  |
| Mar 2000 | S_07           | SP-000015 | 001 |     | resolving remaining R99 inconsistency between 32.101 & 32.102                              | 3.0.0 | 3.1.0 |  |  |  |  |
| Mar 2000 | S_07           | SP-000015 | 002 |     | Correction of IRP-related terminology                                                      | 3.0.0 | 3.1.0 |  |  |  |  |
| Mar 2000 |                |           | -   |     | Cosmetic                                                                                   | 3.1.0 | 3.1.1 |  |  |  |  |
| Jun 2000 | S_08           | SP-000227 | 003 |     | Clarification of compliance conditions                                                     | 3.1.1 | 3.2.0 |  |  |  |  |
| Jun 2000 | S_08           | SP-000228 | 004 |     | Update ITU-T TMN related reference material                                                | 3.1.1 | 3.2.0 |  |  |  |  |
| Jun 2000 | S_08           | SP-000229 | 005 |     | Definition of the Mandatory/Optional/Conditional qualifiers used in the IRPs               | 3.1.1 | 3.2.0 |  |  |  |  |
| Jun 2000 | S_08           | SP-000230 | 006 |     | Correction of erroneous editing and usage of undefined term                                | 3.1.1 | 3.2.0 |  |  |  |  |
| Mar 2001 | S_11           | SP-010026 | 007 |     | Add UMTS TMN conformance                                                                   | 3.2.0 | 4.0.0 |  |  |  |  |
| Jun 2001 | S_12           | SP-010232 | 800 |     | Correction of ITU-T TMN concerns                                                           | 4.0.0 | 4.1.0 |  |  |  |  |
| Jun 2001 | S_12           | SP-010232 | 009 |     | Alignment with 3GPP drafting rules regarding headings                                      | 4.0.0 | 4.1.0 |  |  |  |  |
| Jun 2001 | S_12           | SP-010232 | 010 |     | Update of TM architectural aspects                                                         | 4.0.0 | 4.1.0 |  |  |  |  |
| Jun 2001 | S_12           | SP-010232 | 011 |     | General clarifications and enhancements                                                    | 4.0.0 | 4.1.0 |  |  |  |  |
| Jun 2001 | S_12           | SP-010232 | 012 |     | Alignment with 3GPP drafting rules regarding verbal forms for the expression of provisions | 4.0.0 | 4.1.0 |  |  |  |  |
| Jun 2001 | S_12           | SP-010232 | 013 |     | Update and clarify compliance condition for a UMTS entity                                  | 4.0.0 | 4.1.0 |  |  |  |  |
| Jun 2001 | S_12           | SP-010232 | 014 |     | Delete OSA definition                                                                      | 4.0.0 | 4.1.0 |  |  |  |  |
| Jun 2001 | S_12           | SP-010232 | 015 |     | Enhancements of the IRP Concept                                                            | 4.0.0 | 4.1.0 |  |  |  |  |
| Sep 2001 | S_13           | SP-010466 | 016 |     | Update and alignment of compliance conditions for UMTS Management Physical architectures   | 4.1.0 | 4.2.0 |  |  |  |  |
| Sep 2001 | S_13           | SP-010522 | 017 |     | Specify the Rule for IDL file names                                                        | 4.1.0 | 4.2.0 |  |  |  |  |
| Mar 2003 | S_19           | SP-030061 | 026 |     | Add New Subclause to IS Template for Notification Related IOCs                             | 4.2.0 | 4.3.0 |  |  |  |  |

| Meeting #34, So               | phia            | ı Antı                                                       | polis                                                             | s, FRAN                                                                  | CE, 19                                                    | )-23 N                                               | May                        | 200                      | 3                                    |                                                                     |                                                                                                                         | 00.5                 |
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|                               |                 |                                                              | (                                                                 | CHAN                                                                     | IGE I                                                     | REQ                                                  | UE                         | ST                       | -                                    |                                                                     |                                                                                                                         | CR-Form-v7           |
| ×                             | 32              | .102                                                         | CR                                                                | 029                                                                      | H                                                         | rev                                                  | -                          | Ħ                        | Current                              | versio                                                              | n: <b>5.3.0</b>                                                                                                         | <b>#</b>             |
| For <u>HELP</u> on u          | sing            | this for                                                     | m, se                                                             | e bottom (                                                               | of this p                                                 | age or                                               | look                       | at th                    | е рор-ир                             | text ov                                                             | ver the % s                                                                                                             | ymbols.              |
| Proposed change               | affec           | <i>ts:</i> l                                                 | JICC a                                                            | apps#                                                                    |                                                           | ME                                                   | Ra                         | dio A                    | ccess Ne                             | etwork                                                              | X Core N                                                                                                                | Network X            |
| Title: #                      | Co              | rrectio                                                      | n of su                                                           | ıbclause )                                                               | X.2.1 in                                                  | Annex                                                | С                          |                          |                                      |                                                                     |                                                                                                                         |                      |
| Source: #                     | SA              | 5                                                            |                                                                   |                                                                          |                                                           |                                                      |                            |                          |                                      |                                                                     |                                                                                                                         |                      |
| Work item code: 光             |                 |                                                              |                                                                   |                                                                          |                                                           |                                                      |                            |                          | Date                                 | e: ૠ (                                                              | 05/09/2003                                                                                                              | <b>S</b>             |
| Category: ж                   | Α               |                                                              |                                                                   |                                                                          |                                                           |                                                      |                            |                          | Release                              | e: Ж 📕                                                              | Rel-5                                                                                                                   |                      |
| Catogory:                     | <i>Use</i> Deta | F (corr<br>A (corr<br>B (add<br>C (fun<br>D (edi<br>iled exp | rection,<br>respon<br>dition o<br>ctional<br>torial m<br>olanatio | owing cate ) ds to a cor f feature), modification ons of the a TR 21.900 | rection in<br>on of fea<br>on<br>on contraction           | ture)                                                |                            |                          | Use <u>or</u><br>2                   | ne of the<br>(G<br>6 (R<br>7 (R<br>8 (R<br>9 (R<br>1-4 (R<br>1-5 (R | e following re<br>GSM Phase 2<br>Release 1996<br>Release 1996<br>Release 1996<br>Release 4)<br>Release 5)<br>Release 6) | 2)<br>6)<br>7)<br>8) |
| Reason for change             | e: #            |                                                              |                                                                   | X.2.1 in Alles, are o                                                    |                                                           |                                                      |                            |                          | "old" rule                           | s that h                                                            | have been                                                                                                               | replaced             |
|                               |                 | Dy O                                                         | inci iu                                                           | ics, are o                                                               | DSOICTC                                                   | aria/or                                              | WIO                        | ııg.                     |                                      |                                                                     |                                                                                                                         |                      |
| Summary of chang              | <b>ge:</b> ₩    | attrib<br>a 3 d<br>2. In<br>infor                            | oute) d<br>charac<br>X.2.1<br>mation<br>bol "#"                   | lefined in<br>ters prefix<br>, remove t                                  | the IS a<br>c unique<br>the sent<br>lass sha<br>ach attri | and who<br>ely ider<br>ence "<br>all be q<br>bute.". | ich so<br>ntifyin<br>On tl | cope<br>ig the<br>he cla | is local to<br>e IS.".<br>ass diagra | o this IS<br>am, ead                                                | ments (class<br>S must be p<br>ch attribute<br>the addition                                                             | orefixed by<br>in an |
| Consequences if not approved: | ж               | incor                                                        | nsister                                                           | nt with all                                                              | the exis                                                  | ting N                                               | RM I                       | S cla                    | ss and at                            | tribute                                                             | estrictions v<br>specifications<br>Annex G o                                                                            | ons.                 |
| 01                            | 0.0             | Δ.                                                           | 0.14                                                              | 4 1/ 0 1/                                                                | 0 0                                                       |                                                      |                            |                          |                                      |                                                                     |                                                                                                                         |                      |
| Clauses affected:             | Ж               | Anne                                                         | ex C X                                                            | .1, X.2, X                                                               | .3, Anne                                                  | ex G.                                                |                            |                          |                                      |                                                                     |                                                                                                                         |                      |
| Other specs affected:         | Ж               | Y N<br>X<br>X                                                | Test                                                              | r core spe<br>specificat                                                 | ions                                                      | ons                                                  | ¥                          |                          |                                      |                                                                     |                                                                                                                         |                      |

## How to create CRs using this form:

changes).

Other comments:

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

# Mirror of Rel-4 CR in S5-036611 (which in addition includes some editorial

#### Change in Annex C

## Annex C (informative): Information Service template

This annex contains the template to be used for the <u>IRP</u> Information Services documents <u>TSs</u> produced within the 3GPP SA <u>WGTSG</u>5. This template is based on the latest 3GPP template which **must** be used for any 3GPP Technical Specification.

The introductory clauses of the 3GPP template (from clause 1 to clause 3) are unchanged.

This template is numbered starting with "X", which, in general should correspond to <u>clause</u> 4 which is the beginning of the main text document. However, if there is a need for a specific IS to introduce additional clauses in the body, X may correspond to a number higher than 4. For an NRM <u>IRP IS</u> only clause X shall be used.

The conclusive clauses/annexes of the 3GPP template are unchanged.

## X Information Object Classes

"X" represents a clause number in the actual Information Service TS.

## X.1 Information entities imported and local labels

This clause identifies a list of information entities (e.g. information object class, information relationship, information attribute) that have been defined in other specifications and that are imported in the present document. This includes information entities from other specifications imported for inheritance purpose. Each element of this list is a pair (label reference, local label). The label reference contains the name of the specification where it is defined, the type of the information entity and its name. The local label of imported information entities can then be used throughout the specification instead of the label reference.

This information is provided in a table. An example of such a table is given here below:

| Label reference                              | Local label |
|----------------------------------------------|-------------|
| 32.106-5 [10], information object class, Top | Тор         |

## X.2 Class diagram

## X.2.1 Attributes and relationships

This first diagram represents all information object classes defined in this IS with all their relationships and all their attributes. This diagram shall contain relationship names, role name and role cardinality. This shall be a UML compliant class diagram.

Characteristics (attributes, relationships) of imported information object classes need not to be repeated in the diagram. Names of information elements (class, attribute) defined in the IS and which scope is local to this IS must be prefixed by a 3 characters prefix uniquely identifying the IS. Information object classes should be defined using the stereotype << InformationObjectClass>>. On the class diagram, each attribute in an information object class shall be qualified as "protected" by the addition of a symbol "#" before each attribute.

#### X.2.2 Inheritance

This second diagram represents the inheritance hierarchy of all information object classes defined in this IS. This diagram does not need to contain the complete inheritance hierarchy but shall at least contain the parent information object classes of all information object classes defined in the present document. By default, an information object class inherits from the information object class "top". This shall be a UML compliant class diagram.

Characteristics (attributes, relationships) of imported information object classes need not to be repeated in the diagram. Information object classes should be defined using the stereotype << InformationObject Class>>.

NOTE: some inheritance relationships presented in X.2.2 can be repeated in X.2.1 to enhance readability.

### X.3 Information object classes definition

Each information object class is defined using the following structure.

#### X.3.a InformationObjectClassName

InformationObjectClassName is the name of the information object class.

"a" represents a number, starting at 1 and increasing by 1 with each new definition of an information object class.

#### X.3.a.1 Definition

The <definition> sub-clause is written in natural language. The <definition> sub-clause refers to the information object class itself. The characteristics related to the relationships that the object class can have with other object classes can't be found in the definition. The reader has to refer to relationships definition to find such kind of information. Information related to inheritance shall be precised here.

#### X.3.a.2 Attributes

The <attributes> sub-clause presents the list of attributes, which are the manageable properties of the object class. Each element is a tuple (attributeName, visibilityQualifier, supportQualifier, readQualifier, writeQualifier):

- The visibilityQualifier indicates whether the attribute is public, private or IRPAgent Internal ("+","—", and "%" respectively). The semantics of public and private are as per the UML specification. The semantic of IRPAgent Internal is defined within the 3GPP UML Repertoire.
- The supportQualifier indicates whether the attribute is Mandatory, Optional, Conditional or not supported ("M"," O"," C", or "—", respectively).
- The readQualifier indicates whether the attribute shall be readable by the IRPManager. The semantics for readQualifier is identical to supportQualifier, for "M, "O", and "—".
- The writeQualifier indicates whether the attribute shall be writeable by the IRPManager. The semantics for writeQualifier is identical to supportQualifier, for "M", "O", and "—".

#### **End of Change in Annex C**

#### Change in Annex G

## G.3.3 Visibility

It specifies the accessibility of the operation and attribute. There are three types of visibility, i.e. private, public and IRPAgent Internal.

Table G.2: Private Visibility (notation "-")

| Operation | NA                                                                                                          |
|-----------|-------------------------------------------------------------------------------------------------------------|
| Attribute | It indicates that the attribute is not accessible by other entities, e.g. the IRPManager, or other entities |
|           | not holding the subject attribute.                                                                          |

#### Table G.3: Public Visibility (notation "+")(default)

| Operation | It indicates that the operation is visible across the itf-N, e.g. the IRPManager can invoke the operation across the itf-N interface.                                                                                                                                                                                                 |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Attribute | It indicates that the attribute is accessible across the itf-N, i.e. the IRPManager can invoke an operation to read the attribute and to write to this attribute if the attribute is so qualified. The read or write operation must be directly invoked against the entity holding the subject attribute or against the CM IRP Agent. |

### End of Change in Annex G

# Annex H (informative): Change history

|          |       |           |     |     | Change history                                                                                                                      |       |       |
|----------|-------|-----------|-----|-----|-------------------------------------------------------------------------------------------------------------------------------------|-------|-------|
| Date     | TSG # | TSG Doc.  | CR  | Rev | Subject/Comment                                                                                                                     | Old   | New   |
| Dec 1999 | S_06  | SP-99578  |     |     | Approved at TSG SA #6 and placed under Change Control                                                                               | -     | 3.0.0 |
| Mar 2000 | S_07  | SP-000015 | 001 |     | resolving remaining R99 inconsistency between 32.101 & 32.102                                                                       | 3.0.0 | 3.1.0 |
| Mar 2000 | S_07  | SP-000015 | 002 |     | Correction of IRP-related terminology                                                                                               | 3.0.0 | 3.1.0 |
| Mar 2000 |       |           |     |     | Cosmetic                                                                                                                            | 3.1.0 | 3.1.1 |
| Jun 2000 | S_08  | SP-000227 | 003 |     | Clarification of compliance conditions                                                                                              | 3.1.1 | 3.2.0 |
| Jun 2000 | S_08  | SP-000228 | 004 |     | Update ITU-T TMN related reference material                                                                                         | 3.1.1 | 3.2.0 |
| Jun 2000 | S_08  | SP-000229 | 005 |     | Definition of the Mandatory/Optional/Conditional qualifiers used in the IRPs                                                        | 3.1.1 | 3.2.0 |
| Jun 2000 | S_08  | SP-000230 | 006 |     | Correction of erroneous editing and usage of undefined term                                                                         | 3.1.1 | 3.2.0 |
| Mar 2001 | S_11  | SP-010026 | 007 |     | Add UMTS TMN conformance                                                                                                            | 3.2.0 | 4.0.0 |
| Jun 2001 | S_12  | SP-010232 | 800 |     | Correction of ITU-T TMN concerns                                                                                                    | 4.0.0 | 4.1.0 |
| Jun 2001 | S_12  | SP-010232 | 009 |     | Alignment with 3GPP drafting rules regarding headings                                                                               | 4.0.0 | 4.1.0 |
| Jun 2001 | S_12  | SP-010232 | 010 |     | Update of TM architectural aspects                                                                                                  | 4.0.0 | 4.1.0 |
| Jun 2001 | S_12  | SP-010232 | 011 |     | General clarifications and enhancements                                                                                             | 4.0.0 | 4.1.0 |
| Jun 2001 | S_12  | SP-010232 | 012 |     | Alignment with 3GPP drafting rules regarding verbal forms for the expression of provisions                                          | 4.0.0 | 4.1.0 |
| Jun 2001 | S_12  | SP-010232 | 013 |     | Update and clarify compliance condition for a UMTS entity                                                                           | 4.0.0 | 4.1.0 |
| Jun 2001 | S_12  | SP-010232 | 014 |     | Delete OSA definition                                                                                                               | 4.0.0 | 4.1.0 |
| Jun 2001 | S_12  | SP-010232 | 015 |     | Enhancements of the IRP Concept                                                                                                     | 4.0.0 | 4.1.0 |
| Sep 2001 | S_13  | SP-010466 | 016 |     | Update and alignment of compliance conditions for UMTS<br>Management Physical architectures                                         | 4.1.0 | 4.2.0 |
| Sep 2001 | S_13  | SP-010522 | 017 |     | Specify the Rule for IDL file names                                                                                                 | 4.1.0 | 4.2.0 |
| Mar 2002 | S_15  | SP-020037 | 018 |     | Add the rule on how all SA5 Solution Set specifications indicate a reference to a particular SA5 Information Service specification. | 4.2.0 | 5.0.0 |
| Mar 2002 | S_15  | SP-020037 | 019 |     | Inclusion of the IMS in the 3G Telecom Management Architecture (32.102)                                                             | 4.2.0 | 5.0.0 |
| Sep 2002 | S_17  | SP-020450 | 020 |     | Correction of diagrams describing entities of the mobile system to be managed                                                       | 5.0.0 | 5.1.0 |
| Sep 2002 | S_17  | SP-020450 | 021 |     | IS Template Changes to support new UML Repertoire/Methodology                                                                       | 5.0.0 | 5.1.0 |
| Sep 2002 | S_17  | SP-020450 | 022 |     | Addition of 3GPP UML Repertoire for IRP: IS                                                                                         | 5.0.0 | 5.1.0 |
| Sep 2002 | S_17  | SP-020479 | 023 |     | Add optional parameters in CORBA Solution Set IDLs                                                                                  | 5.0.0 | 5.1.0 |
| Dec 2002 | S_18  | SP-020726 | 024 |     | Aligning IRP related terminology with SA5's SWGC IRP specifications (32.6xy)                                                        | 5.1.0 | 5.2.0 |
| Dec 2002 | S_18  | SP-020727 | 025 |     | Updates and corrections to Integration Reference Points (IRPs) Introduction                                                         | 5.1.0 | 5.2.0 |
| Mar 2003 | S_19  | SP-030061 | 027 | -   | Add New Subclause to IS Template for Notification Related IOCs                                                                      | 5.2.0 | 5.3.0 |
|          |       |           |     |     |                                                                                                                                     |       | Ŧ     |