

JT-Q1601 ISUP interaction between N-ISDN and INAP CS2

1. Relations with international standards

This standard conforms to ITU-T Recommendation Q.1601 approved at the ITU-T SG11 plenary meeting in December 1999.

2. Summary of differences from the international recommendations

2.1 Optional items

None

2.2 National items

None

2.3 Others

(1) This standard has no items prior to the above ITU-T Recommendation.

(2) The following items are deleted from the above ITU-T Recommendation:

Description which is specified in ITU-T Recommendation but is out of scope of this Standard, is remained in this Standard and is marked with '#' to assist for understanding.

(a) description for ISUP functions which is out of scope of Standards

(b) description for INAP functions which is out of scope of Standards

(c) description for international connection

(d) description for interactions with other networks

(e) description for interactions between IN basic call and ISDN supplementary services

(f) description for interactions between IN services

They have deleted for the following reasons:

(a) is deleted because it is out of scope of referred TTC Standards JT-Q761~764.

(b) is deleted because it is out of scope of referred TTC Standard JT-Q1228-b, JT-Q1238.1-b, and JT-Q1238.2-b.

(c) is deleted because it is not required for national use.

(d) is deleted because it is premature in ITU-T.

(e),(f) are deleted because they are not required at this time.

(3) There is no Recommendation which specified the interaction between ISUP and INAP CS3 at ITU-T, therefore this Standard specifies this interaction.

In order to make compatible with referred ISUP Standards and referred INAP Standard, this Standard includes the following additional items to the above ITU-T Recommendation (marked with '*' in this Standard).

Table 1 shows contents of additional items.

2.4 Comparison of chapter composition between the ITU-T Recommendation and this standard.

There is no difference in chapter composition with the above ITU-T Recommendation.

3. The history of revised versions

Version	Date	Outline
1	November 25, 1999	Established
2	April 20, 2000	Added the interaction descriptions for porting IN services numbers between SCP carriers.
3	April 19, 2001	Extended functions concerned with terminating BCSM according to proceeding JT-Q1238.1/2-b, and editorial changes
4	May 30, 2002	Modified procedure for handling of Redirect service treatment indicator parameter according to proceeding JT-Q730 (7 th edition), JT-Q1228-b (6 th edition) and JT-Q1238.2-b (2 nd edition). And editorial changes.

Table 1: Items additionally specified in the TTC Standard (1/2)

Section	contents																
6.1 Table1	ISUP support of FSA is specified 'Yes'																
6.1 Table2	INAP operations (direction: SCF-SSF) <table border="1" data-bbox="614 383 1321 566"> <thead> <tr> <th data-bbox="614 383 853 472">Operation</th> <th data-bbox="853 383 1050 472">Influence on ISUP call handling</th> <th data-bbox="1050 383 1321 472">Reference</th> </tr> </thead> <tbody> <tr> <td data-bbox="614 472 853 566">InitiateTemporaryCon- Nections</td> <td data-bbox="853 472 1050 566">Yes</td> <td data-bbox="1050 472 1321 566"></td> </tr> </tbody> </table>	Operation	Influence on ISUP call handling	Reference	InitiateTemporaryCon- Nections	Yes											
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InitiateTemporaryCon- Nections	Yes																
10.1.1.1.1 Table 4	Mapping of parameters from IAM to InitialDP <table border="1" data-bbox="614 701 1321 1081"> <thead> <tr> <th data-bbox="614 701 922 745">IAM</th> <th data-bbox="922 701 1321 745">InitialDP</th> </tr> </thead> <tbody> <tr> <td data-bbox="614 745 922 790">Called party number</td> <td data-bbox="922 745 1321 790">Dialed Number</td> </tr> <tr> <td data-bbox="614 790 922 835">Charge area information</td> <td data-bbox="922 790 1321 835">Charge area information</td> </tr> <tr> <td data-bbox="614 835 922 880">Contractor Number</td> <td data-bbox="922 835 1321 880">Contractor Number</td> </tr> <tr> <td data-bbox="614 880 922 925">Called IN Number</td> <td data-bbox="922 880 1321 925">Called IN Number</td> </tr> <tr> <td data-bbox="614 925 922 969">Carrier Information transfer</td> <td data-bbox="922 925 1321 969">Carrier Information transfer</td> </tr> <tr> <td data-bbox="614 969 922 1014">Additional party's category</td> <td data-bbox="922 969 1321 1014">Additional party's category</td> </tr> <tr> <td data-bbox="614 1014 922 1081">Cause of no ID</td> <td data-bbox="922 1014 1321 1081">Cause of no ID</td> </tr> </tbody> </table>	IAM	InitialDP	Called party number	Dialed Number	Charge area information	Charge area information	Contractor Number	Contractor Number	Called IN Number	Called IN Number	Carrier Information transfer	Carrier Information transfer	Additional party's category	Additional party's category	Cause of no ID	Cause of no ID
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10.1.1.1.1.1 Table 5	Mapping of parameters from connect to IAM <table border="1" data-bbox="614 1182 1321 1518"> <thead> <tr> <th data-bbox="614 1182 954 1227">Connect</th> <th data-bbox="954 1182 1321 1227">IAM</th> </tr> </thead> <tbody> <tr> <td data-bbox="614 1227 954 1328">AdditionalCallingPartyNumber</td> <td data-bbox="954 1227 1321 1328">Generic Number (AdditionalCallingPartyNumber)</td> </tr> <tr> <td data-bbox="614 1328 954 1373">Carrier Information transfer</td> <td data-bbox="954 1328 1321 1373">Carrier Information transfer</td> </tr> <tr> <td data-bbox="614 1373 954 1417">Correlation ID</td> <td data-bbox="954 1373 1321 1417">Correlation id</td> </tr> <tr> <td data-bbox="614 1417 954 1462">SCF ID</td> <td data-bbox="954 1417 1321 1462">SCF id</td> </tr> <tr> <td data-bbox="614 1462 954 1518">Cause of no ID</td> <td data-bbox="954 1462 1321 1518">Cause of no ID</td> </tr> </tbody> </table>	Connect	IAM	AdditionalCallingPartyNumber	Generic Number (AdditionalCallingPartyNumber)	Carrier Information transfer	Carrier Information transfer	Correlation ID	Correlation id	SCF ID	SCF id	Cause of no ID	Cause of no ID				
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10.1.1.1.1.1	Coding of "Backward call indicator" parameter in the ACM from Connect operation: Charge indicator : Network Provider specific Holding indicator : 0 (holding not requested)																

Table 1: Items additionally specified in the TTC Standard (2/2)

<p>10.1.1.1.1.4 Table 7</p>	<p>Mapping of serviceInteractionIndicatorsTwo:</p> <table border="1" data-bbox="614 331 1321 824"> <thead> <tr> <th data-bbox="614 331 906 555">INAP ServiceInteraction IndicatorsTwo</th> <th data-bbox="906 331 1002 555">ACM/ CPG/ CON/ ANM</th> <th data-bbox="1002 331 1321 555">ISUP parameter in IAM</th> </tr> </thead> <tbody> <tr> <td data-bbox="614 555 906 824">Called IN number presentation restricted indicator - presentation allowed - presentation not allowed</td> <td data-bbox="906 555 1002 824"></td> <td data-bbox="1002 555 1321 824">Called IN number parameter Address presentation restricted indicator - presentation allowed - presentation restricted</td> </tr> </tbody> </table> <p>Addition of the definition concerned with the interwork which the table 7 does not define.</p>	INAP ServiceInteraction IndicatorsTwo	ACM/ CPG/ CON/ ANM	ISUP parameter in IAM	Called IN number presentation restricted indicator - presentation allowed - presentation not allowed		Called IN number parameter Address presentation restricted indicator - presentation allowed - presentation restricted
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<p>10.1.1.1.2</p>	<p>Definition of the followings in the Send Charging Information operation:</p> <ul style="list-style-type: none"> - “noCharge” parameter is replaced with “noChargeIndicator” parameter. - If the Charge indicator is “noCharge” and the partyToCharge parameter indicates the A-party, then the Charge indicator is mapped to the backward call indicators parameter. 						
<p>10.1.3.1 Table8</p>	<table border="1" data-bbox="606 1227 1321 1317"> <tr> <td data-bbox="606 1227 746 1317">FSA</td> <td data-bbox="746 1227 1321 1317">This DP is detected when the terminating access is not busy (i.e. an idle facility [e.g. B-channel, call appearance, or trunk] could be found).</td> </tr> </table>	FSA	This DP is detected when the terminating access is not busy (i.e. an idle facility [e.g. B-channel, call appearance, or trunk] could be found).				
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<p>10.1.4.1.3 Table9</p>	<p>Added specification of sending CPG when ACM/CON has not sent.</p>						
<p>10.1.5.2.1.1.1</p>	<p>EstablishTemporaryConnection operation:</p> <p>If timer T7 expires, the call which has not been established is released and the ETCFailed error is sent to SCP.</p>						
<p>10.1.5.5</p>	<p>Definition of the procedure invoking temporary connection on initiating SSP.</p>						
<p>10.1.13</p>	<p>Definition of call release procedure by the event on an exchange.</p>						
<p>10.1.14</p>	<p>Definition of charge event procedure.</p>						
<p>14 Table 20</p>	<p>Time-out value of timer T_{SUS} is specified for each network.</p>						