

3GPP TSG_CN
Plenary Meeting #8, Düsseldorf, Germany
21st – 23rd June 2000.

Tdoc NP-000228

Source: TSG_N WG 3
Title: CRs to 3G Work Item R99 Service Clean up
Agenda item: 6.22.3
Document for: APPROVAL

Introduction:

This document contains 1 CR on **Work Item R99 Service Clean up**, that has been agreed by **TSG_N WG 3**, and is forwarded to **TSG_N Plenary** meeting #8 for approval.

| Spec | CR | Doc-2nd- | Phas | Subject | Cat | Ver_C | Ver_N |
|--------|-----|-----------|------|----------------------------------|-----|-------|-------|
| 27.001 | 019 | N3-000187 | R99 | Removal of packet access service | F | 3.4.0 | 3.5.0 |

| | | |
|--|--|---|
| <h2 style="margin: 0;">CHANGE REQUEST</h2> | | Please see embedded help file at the bottom of this page for instructions on how to fill in this form correctly. |
| 27.001 | CR | 019 |
| GSM (AA.BB) or 3G (AA.BBB) specification number ↑ | | ↑ CR number as allocated by MCC support team |
| For submission to: TSGN #8 <i>list expected approval meeting # here ↑</i> | for approval <input checked="" type="checkbox"/> for information <input type="checkbox"/> | Current Version: 3.4.0 strategic <input type="checkbox"/> non-strategic <input type="checkbox"/> <i>(for SMG use only)</i> |
| 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
(at least one should be marked with an X)

Source: TSG_CN3 **Date:** 04.04.2000

Subject: Removal of packet access service.

Work item: R99 service clean-up

| | | | |
|------------------|--|-----------------|--|
| Category: | F Correction <input checked="" type="checkbox"/> A Corresponds to a correction in an earlier release <input type="checkbox"/> B Addition of feature <input type="checkbox"/> C Functional modification of feature <input type="checkbox"/> D Editorial modification <input type="checkbox"/> | Release: | Phase 2 <input type="checkbox"/> Release 96 <input type="checkbox"/> Release 97 <input type="checkbox"/> Release 98 <input type="checkbox"/> Release 99 <input checked="" type="checkbox"/> Release 00 <input type="checkbox"/> |
|------------------|--|-----------------|--|

(only one category shall be marked with an X)

Reason for change: The packet access services were removed. This CR comprises the needed changes.

Clauses affected: Section B.1.3.

Other specs affected:

| | | | |
|-------------------------------|--------------------------|----------------|--|
| Other 3G core specifications | <input type="checkbox"/> | → List of CRs: | |
| Other GSM core specifications | <input type="checkbox"/> | → List of CRs: | |
| MS test specifications | <input type="checkbox"/> | → List of CRs: | |
| BSS test specifications | <input type="checkbox"/> | → List of CRs: | |
| O&M specifications | <input type="checkbox"/> | → List of CRs: | |

Other comments:

Table B.4f: Negotiation of Rate adaptation/Other rate adaptation

Mobile Terminated Call:

| BC-parameter Rate adaptation/Other rate adaptation | | |
|--|-------------------------------------|--------------------|
| Bearer type | Message SETUP | Message CALL CONF |
| FTM ¹⁾ | V.110, I.460 and X.30 | X.31 flag stuffing |
| PIAFS ²⁾ | V.110, I.460 and X.30 | PIAFS |
| Multimedia | V.110, I.460 and X.30 ³⁾ | H.223 and H.245 |
| | No rate adaptation ⁵⁾ | H.223 and H.245 |

- 1) This negotiation is possible, only if ITC=UDI, FNUR=56 kbit/ and CE=NT or "both" is signalled in the SETUP message. The MS shall signal FTM as specified in B.1.2.3.
- 2) This negotiation is possible, only if ITC=UDI, FNUR=32 kbit/s and CE= "both" is signalled in the SETUP message. The UE shall signal PIAFS as specified in B.1.2.4.
- 3) This negotiation is possible, only if ITC=UDI, FNUR=32 or 56 kbit/ and CE=T or "both" is signalled in the SETUP message. The MS shall signal 3G-H.324/M as specified in B.1.3.1.~~76~~
- 5) This negotiation is possible, only if ITC=3.1 kHz, FNUR=28.8 kbit/s, MT=V.34 and CE=T or "both" is signalled in the SETUP message. The MS shall signal 3G-H.324/M as specified in B.1.3.2.3

Next section modified

B.1.3 Bearer Service 30, Data Circuit Duplex Synchronous

B.1.3.1 Unrestricted/restricted digital information transfer capability

B.1.3.1.1 Non-X.32 Cases

| ITC | UDI | 3.1 kHz | FAX3 | speech | | | | | | |
|-------------------------------|-------------|----------|-----------|-----------|---------|--------------|------|-----|-----|--|
| | | | | | | | | | | |
| Layer/protocol related: | | | | | | | | | | |
| SAP | NA | I.440 | X.28deIN | | X.32 | X.21 | res | | | |
| | | | | | | | | | | |
| RA | NA | V.110 | V.120 | X.31Flag | No | | | | | |
| | | | | | | | | | | |
| SA | | A | | S | | NA | | | | |
| | | | | | | | | | | |
| CE | | NT | bothNT | | bothT | T | NA | | | |
| | | | | | | | | | | |
| S | NA | SDU | | | | unstructured | | | | |
| | | | | | | | | | | |
| UIL2P | X.25 | ISO6429 | | COPnoFlct | | NAV | | | | |
| | | | | | | | | | | |
| NDB | NA | | | 7 | | 8 | | | | |
| | | | | | | | | | | |
| NPB | NA | odd | even | 0 | 1 | none | | | | |
| | | | | | | | | | | |
| NSB | NA | | | 1 | | 2 | | | | |
| | | | | | | | | | | |
| Radio channel related: | | | | | | | | | | |
| RCR | | | | dualHR | | dualFR | | FR | | |
| | | | | | | | | | | |
| IR | 1) | 8 | | 16 | | not_used | | NA | | |
| | | | | | | | | | | |
| UR | 1) | 0.3 | 1.2 | 2.4 | 4.8 | 9.6 | | NA | | |
| | | | | | | | | | | |
| MT | none | V.21 | V.22 | V.22bis | V.26ter | V.32 auto1 | | NA | | |
| | | | | | | | | | | |
| OMT | no other MT | | V.34 | NAV | | | | | | |
| | | | | | | | | | | |
| FNUR | 9.6 | 14.4 | 19.2 | 28.8 | 38.4 | 48 | 56 | 64 | NAV | |
| | | | | | | | | | | |
| WAIUR | 9.6 | 14.4 | 19.2 | 28.8 | 38.4 | 43.2 | 57.6 | NAV | | |
| | | | | | | | | | | |
| ACC | 2) | 4.8 | 9.6 | 14.4 | 28.8 | NAV | | | | |
| | | | | | | | | | | |
| UIMI | | not req. | upto 1 | upto 2 | upto 3 | upto 4 | | NAV | | |
| | | | | | | | | | | |
| NumTCH | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | NAV | |
| | | | | | | | | | | |
| ASYM | | no pref | ul biased | | dl pref | | | NAV | | |

- 1) IR and UR are overridden if FNUR, ACC and MaxNumTCH are available
- 2) ACC may have several values simultaneously (bit map coding).

B.1.3.1.43 48kbit/s and 56 kbit/s transparent Case (TCH/F9.6)

| UDI | 3.1 kHz | FAX3 | speech | | | | |
|-------------------------------|-------------|---------|-----------|-----------|--------------|---------------|--|
| ITC----- | | | | | | | |
| | | | | | | | |
| *Layer/protocol related:..... | | | | | | | |
| SAP | NA | I.440 | X.28nond | X.32 | X.21 | res | |
| | | | | | | | |
| RA | NA | V.110 | V.120 | X.31Flag | No | | |
| | | | | | | | |
| SA | A | | | S | NA | | |
| | | | | | | | |
| CE | NT | | bothNT | bothT | | T NA | |
| | | | | | | | |
| S | NA | SDU | | | unstructured | | |
| | | | | | | | |
| UILL2P | X.25 | ISO6429 | COPnoFlCt | | | NAV | |
| | | | | | | | |
| NDB | NA | 7 | | | 8 | | |
| | | | | | | | |
| NPB | NA | odd | even | 0 | 1 | none | |
| | | | | | | | |
| NSB | NA | 1 | | | 2 | | |
| | | | | | | | |
| *Radio channel related:..... | | | | | | | |
| RCR | dualHR | | | dualFR | | FR | |
| | | | | | | | |
| 1) IR | 8 | 16 | | | not_used | NA | |
| | | | | | | | |
| 1) UR | 0.3 | 1.2 | 2.4 | 4.8 | 9.6 | NA | |
| | | | | | | | |
| MT | none | V.21 | V.22 | V.22bis | V.26ter | V.32 autol NA | |
| | | | | | | | |
| OMT | no other MT | | V.34 | NAV | | | |
| | | | | | | | |
| FNUR | 9.6 | 14.4 | 19.2 | 28.8 | 38.4 | 48 56 64 | |
| | | | | | | | |
| WAIUR | 9.6 | 14.4 | 19.2 | 28.8 | 38.4 | 43.2 57.6 NAV | |
| | | | | | | | |
| 2) ACC | 4.8 | | 9.6 | 14.4 | NAV | | |
| | | | | | | | |
| UIMI | not req. | upto 1 | upto 2 | upto 3 | upto 4 | NAV | |
| | | | | | | | |
| 3) NumTCH | 1 | 2 | 3 | 4 | 5 | 6 7 8 | |
| | | | | | | | |
| ASYM | no pref | | ul biased | dl biased | | NAV | |

- 1) IR and UR are overridden by FNUR, ACC and MaxNumTCH are available
- 2) ACC may have several values simultaneously (bit map coding).
- 3) For a 4 channel operation see table B.1.3.1.1.

NOTE: The parameters FNUR, OMT, ACC and MaxNumTCH are mandatory for this service.

B.1.3.1.54 64kbit/s bit transparent Case (TCH/F9.6 and TCH/F14.4)

| UDI | 3.1 kHz | FAX3 | speech | | | | |
|---------------------------------|-------------|---------|-----------|----------|---------------|---------------|--|
| ITC----- | | | | | | | |
| | | | | | | | |
| •Layer/protocol related:..... | | | | | | | |
| SAP | NA | I.440 | X.28nond | X.32 | X.21 | res | |
| | | | | | | | |
| RA | NA | V.110 | V.120 | X.31Flag | No | | |
| | | | | | | | |
| SA | A | | | S | | NA | |
| | | | | | | | |
| CE | NT | | bothNT | | bothT T NA | | |
| | | | | | | | |
| S | NA | SDU | | | unstructured | | |
| | | | | | | | |
| UIL2P | X.25 | ISO6429 | COPnoFlct | | | NAV | |
| | | | | | | | |
| NDB | NA | 7 | | | 8 | | |
| | | | | | | | |
| NPB | NA | odd | even | 0 | 1 | none | |
| | | | | | | | |
| NSB | NA | 1 | | | 2 | | |
| | | | | | | | |
| ••• Radio channel related:..... | | | | | | | |
| RCR | dualHR | | | dualFR | | FR | |
| | | | | | | | |
| 1) | 8 | | 16 | | not_used NA | | |
| | | | | | | | |
| 1) | 0.3 | 1.2 | 2.4 | 4.8 | 9.6 | NA | |
| | | | | | | | |
| MT | none | V.21 | V.22 | V.22bis | V.26ter | V.32 auto1 NA | |
| | | | | | | | |
| OMT | no other MT | | | V.34 | | | |
| | | | | | | | |
| FNUR | 9.6 | 14.4 | 19.2 | 28.8 | 38.4 | 48 56 64 | |
| | | | | | | | |
| WAIUR | 9.6 | 14.4 | 19.2 | 28.8 | 38.4 | 43.2 57.6 NAV | |
| | | | | | | | |
| 2) | 4.8 | | | 9.6 | 14.4 | | |
| | | | | | | | |
| UIMI | not req. | | upto 1 | upto 2 | upto 3 | upto 4 NAV | |
| | | | | | | | |
| NumTCH | 1 | 2 | 3 | 4 | 5 | 6 7 8 | |
| | | | | | | | |
| ASYM | no pref | | ul biased | | dl biased NAV | | |

1) IR and UR are overridden by FNUR, ACC and MaxNumTCH are available

2) ACC may have several values simultaneously (bit map coding).

NOTE: The parameters FNUR, OMT, ACC and MaxNumTCH are mandatory for this service.

B.1.3.1.65 Bit transparent 56 kbit/s (RDI) and 64kbit/s (UDI) (TCH/F32.0)

| ITC | UDI | 3.1 kHz | FAX3 | speech | RDI | | | |
|-----------------------------------|------|-------------|--------|-----------|-----------|-----------|--------------|-------|
| +--- Layer/protocol related: ---+ | | | | | | | | |
| SAP | NA | I.440 | | X.28nond | X.32 | X.21 | res | |
| RA | NA | | V.110 | V.120 | X.31Flag | | No | |
| SA | | | A | | S | | NA | |
| CE | | | NT | bothNT | | bothT | T | NA |
| S | NA | | SDU | | | | unstructured | |
| UILL2P | X.25 | ISO6429 | | | COPnoFlct | | NAV | |
| NDB | NA | | | | 7 | | 8 | |
| NPB | NA | odd | even | 0 | 1 | | none | |
| NSB | NA | | | | 1 | | 2 | |
| +--- Radio channel related: ---+ | | | | | | | | |
| RCR | | | | dualHR | | dualFR | | FR |
| IR | 1) | | 8 | | 16 | | not_used | NA |
| UR | 1) | 0.3 | 1.2 | 2.4 | 4.8 | 9.6 | | NA |
| MT | | none | V.21 | V.22 | V.22bis | V.26ter | V.32 | auto1 |
| OMT | | no other MT | | V.34 | | | | NA |
| FNUR | | 9.6 | 14.4 | 19.2 | 28.8 | 38.4 | 48 | 56 |
| WAIUR | | 9.6 | 14.4 | 19.2 | 28.8 | 38.4 | 43.2 | 57.6 |
| ACC | 2) | | | 4.8 | 9.6 | 14.4 | 32.0 | |
| UIMI | | not req. | upto 1 | upto 2 | upto 3 | upto 4 | | NA |
| NumTCH | | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| | | | | | | | | |
| ASYM | | no pref | | ul biased | | dl biased | | NAV |

1) IR and UR are overridden by FNUR, ACC and MaxNumTCH are available

2) ACC may have several values simultaneously (bit map coding).

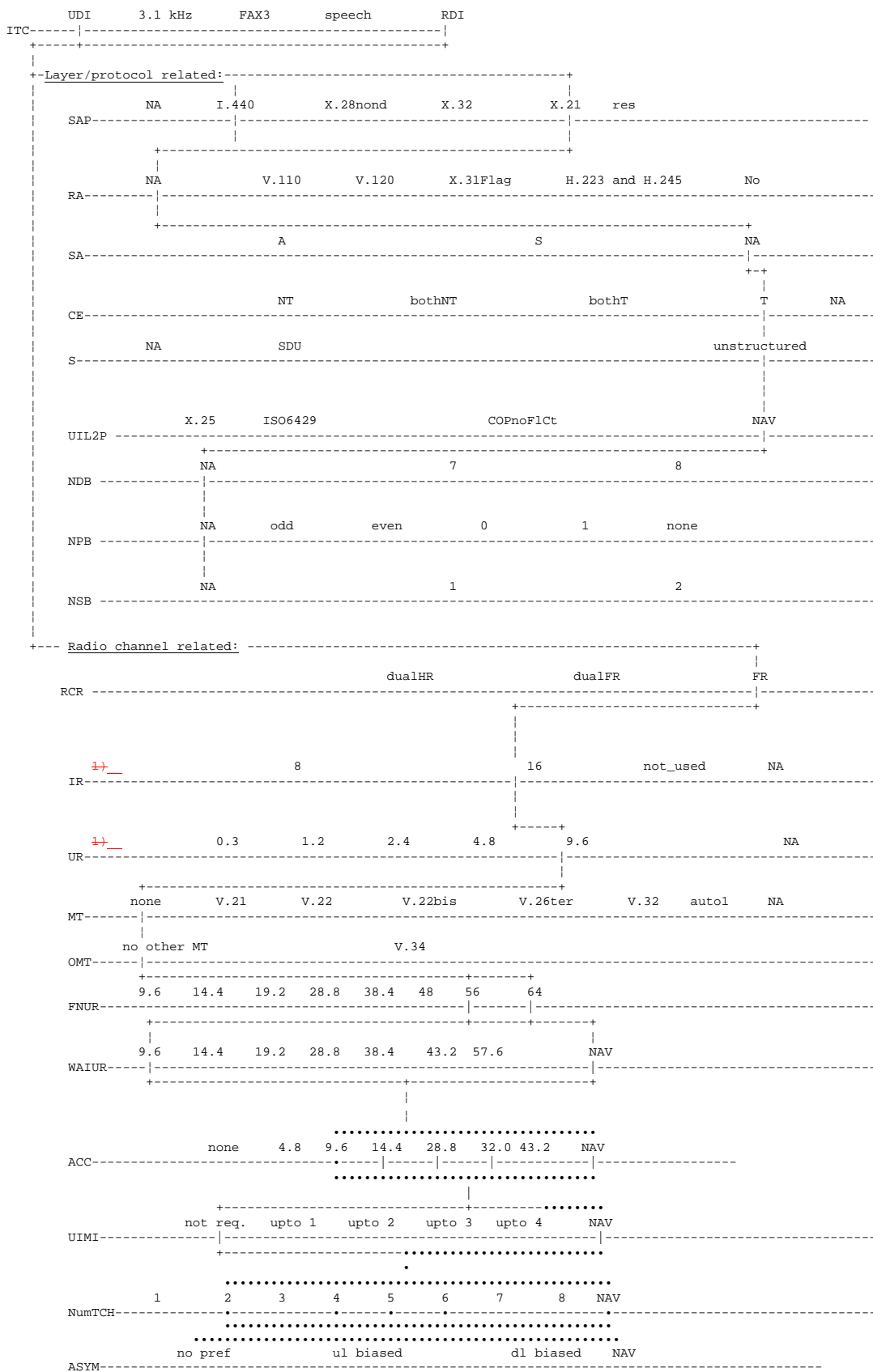
NOTE: The parameters FNUR, OMT, ACC and MaxNumTCH are mandatory for this service.

B.1.3.1.76 3G-H.324/M Case

| ITC | UDI | 3.1 kHz | FAX3 | speech | RDI | | | | | | |
|-------------------------|-------------|----------|----------|-----------|-------------------------------|--------|--------------|-------|-----|-----|--|
| Layer/protocol related: | | | | | | | | | | | |
| SAP | NA | I.440 | X.28deIN | X.28deUN | X.28nond | X.32 | X.21 | res | | | |
| RA | NA | V.110 | V.120 | X.31Flag | H.223 and H.245 ²⁾ | | No | | | | |
| SA | | A | | S | | | NA | | | | |
| CE | | NT | bothNT | bothT | | | T | NA | | | |
| S | NA | SDU | | | | | unstructured | | | | |
| UILL2P | X.25 | ISO6429 | | COPnoFlct | | | NAV | | | | |
| NDB | NA | | 7 | | 8 | | | | | | |
| NPB | NA | odd | even | 0 | 1 | none | | | | | |
| NSB | NA | | 1 | | 2 | | | | | | |
| Radio channel related: | | | | | | | | | | | |
| RCR | | | dualHR | | dualFR | | FR | | | | |
| IR | | 8 | | 16 | not_used | | NA | | | | |
| UR | | 0.3 | 1.2 | 2.4 | 4.8 | 9.6 | | NA | | | |
| MT | none | V.21 | V.22 | V.22bis | V.26ter | V.32 | V.23 | auto1 | NA | | |
| OMT | no other MT | | V.34 | | | | | | | | |
| FNUR | 9.6 | 14.4 | 19.2 | 28.8 | 32.0 | 33.6 | 38.4 | 48 | 56 | 64 | |
| WAIUR | 9.6 | 14.4 | 19.2 | 28.8 | 38.4 | 43.2 | 57.6 | | NAV | | |
| ACC | 1) | | 4.8 | 9.6 | 14.4 | 28.8 | 32.0 | 43.2 | NAV | | |
| UIMI | | not req. | upto 1 | upto 2 | upto 3 | upto 4 | | NAV | | | |
| NumTCH | 4) | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | NAV | |

- 1) ACC may have several values simultaneously (bit map coding).
- 2) This value is interpreted as "No rate adaptation" in GSM

B.1.3.1.87 Bit transparent 56 kbit/s (RDI) and 64kbit/s (UDI) (UTRAN)



WAIUR, UIMI and ASYM shall be available only if the ACC includes TCH/F32.0.

ACC and NumTCH may be available in order to support handover to GSM.

B.1.3.2 3.1 kHz audio ex-PLMN information transfer capability

B.1.3.2.1 Non-X.32 Cases

```

    UDI      3.1 kHz      FAX3      speech
ITC:-----
.....
..Layer/protocol related:..
..
..      NA      I.440      X.28nond      X.32      X.21      res
SAP-----
.....
..      NA      V.110      V.120      X.31Flag      No
RA-----
.....
..      A      S      NA
SA-----
.....
..      NT      bothNT      bothT      T      NA
CE-----
.....
..      NA      SDU      unstructured
S-----
.....
..      X.25      ISO6429      COPnoFlCt      NAV
UIL2P-----
.....
..      NA      7      8
NDB-----
.....
..      NA      odd      even      0      1      none
NPB-----
.....
..      NA      1      2
NSB-----
.....
..... Radio channel related: .....
RCR-----
.....
..      8      16      not_used      NA
IR-----
.....
..      0.3      1.2      2.4      4.8      9.6      NA
UR-----
.....
..      none      V.21      V.22      V.22bis      V.26ter      V.32      autol      NA
MT-----
.....
..      no other MT      V.34      NAV
OMT-----
.....
..      9.6      14.4      19.2      28.8      38.4      48      56      64      NAV
FNUR-----
.....
..      9.6      14.4      19.2      28.8      38.4      43.2      57.6      NAV
WAIUR-----
.....
.....
1) 4.8 9.6 14.4 14.4 NAV
1) 4.8 9.6 14.4 28.8 NAV
ACC-----
.....
..      not req.      upto 1      upto 2      upto 3      upto 4      NAV
UIMI-----
.....
..      1      2      3      4      5      6      7      8      NAV
NumTCH-----
.....
..      no pref      ul biased      dl biased      NAV
ASYM-----

```

1) ACC may have several values simultaneously (bit map coding).

B.1.3.2.2 X.32 Case (Packet Service)

```

UDI      3.1 kHz      FAX3      speech
ITC:-----
.....
•Layer/protocol related:.....
•-----NA      I.440      X.28nond      X.32      X.21      res
•-----NA      I.440      X.28nond      X.32      X.21      res
SAP-----
•
•
RA-----NA      V.110      V.120      X.31Flag      No
•-----
•
SA-----A      S      NA
•-----
•
CE-----NT      bothNT      bothT      T      NA
•-----
•
S-----NA      SDU      unstructured
•-----
•
UIL2P-----x.25      ISO6429      COPnoF1CT      NAV
•-----
•
NDB-----NA      7      8
•-----
•
NPB-----NA      odd      even      0      1      none
•-----
•
NSB-----NA      1      2
•-----
•
•••• Radio channel related: .....
RCR-----dualHR      dualFR      FR
•-----
•
IR-----8      2)      16      not_used      NA
•-----
•
UR-----0.3      1.2      2.4      4.8      9.6      NA
•-----
•
MT-----none      V.21      V.22      V.22bis      V.26ter      V.32      autol      NA
•-----
•
OMT-----no other MT      V.34      NAV
•-----
•
FNUR-----9.6      14.4      19.2      28.8      38.4      NAV
•-----
•
WAIUR-----1) 9.6      14.4      19.2      28.8      38.4      43.2      57.6      NAV
•-----
•
ACC-----3) 4.8      9.6      14.4      28.8      NAV
•-----
•
UIMI-----1) not req.      upto 1      upto 2      upto 3      upto 4      NA
•-----
•
NumTCH-----1      2      3      4      5      6      7      8      NAV
•-----
•
ASYM-----1) no pref      ul biased      dl biased      NAV
•-----

```

- 1) for CE:NT or "both"
- 2) for CE:T or CE:NT and NIRR:6kb/s (not for the SETUP message)
- 3) ACC may have several values simultaneously (bit map coding).

B.1.3.2.3 3G-H.324/M Case

| ITC: | UDI | 3.1 kHz | FAX3 | speech | | | | | | |
|-----------------------------------|-------------|---------|-----------|----------|-------------------------------|----------|------|-------|-----|--------|
| | | | | | | | | | | |
|Layer/protocol related:..... | | | | | | | | | | |
| SAP | NA | I.440 | X.28deIN | X.28deUN | X.28nond | X.32 | X.21 | res | | |
| | | | | | | | | | | |
| RA | NA | V.110 | V.120 | X.31Flag | H.223 and H.245 ²⁾ | | No | | | |
| | | | | | | | | | | |
| SA | A | | | S | NA | | | | | |
| | | | | | | | | | | |
| CE | NT | | bothNT | bothT | | T | NA | | | |
| | | | | | | | | | | |
| S | NA | SDU | | | unstructured | | | | | |
| | | | | | | | | | | |
| UIL2P | X.25 | ISO6429 | COPnoFlCt | | | NAV | | | | |
| | | | | | | | | | | |
| NDB | NA | 7 | | | 8 | | | | | |
| | | | | | | | | | | |
| NPB | NA | odd | even | 0 | 1 | none | | | | |
| | | | | | | | | | | |
| NSB | NA | 1 | | | 2 | | | | | |
| | | | | | | | | | | |
|Radio channel related:..... | | | | | | | | | | |
| RCR | dualHR | | | dualFR | | | FR | | | |
| | | | | | | | | | | |
| IR | 8 | | | 16 | | not_used | NA | | | |
| | | | | | | | | | | |
| UR | 0.3 | 1.2 | 2.4 | 4.8 | 9.6 | | NA | | | |
| | | | | | | | | | | |
| MT | none | V.21 | V.22 | V.22bis | V.26ter | V.32 | V.23 | autol | NA | |
| | | | | | | | | | | |
| OMT | no other MT | | | V.34 | NAV | | | | | |
| | | | | | | | | | | |
| FNUR | 9.6 | 14.4 | 19.2 | 28.8 | 32.0 | 33.6 | 38.4 | 48 | 56 | 64 NAV |
| | | | | | | | | | | |
| WAIUR | 9.6 | 14.4 | 19.2 | 28.8 | 38.4 | 43.2 | 57.6 | NAV | | |
| | | | | | | | | | | |
| ACC | 1) | 4.8 | 9.6 | 14.4 | 28.8 | 32.0 | 43.2 | NAV | | |
| | | | | | | | | | | |
| UIMI | not req. | | upto 1 | upto 2 | upto 3 | upto 4 | NAV | | | |
| | | | | | | | | | | |
| NumTCH | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | NAV | |

- 1) ACC may have several values simultaneously (bit map coding).
- 2) This value is interpreted as "No rate adaptation" in GSM