3GPP TSG CN Plenary **Tdoc NP-010042**
Meeting #11, Palm Springs, U.S.A
14th - 16th March 2001

Source: **TSG_CN WG 3**

Title: **CRs to R99 Work Item "CS Data Bearers"**

Agenda item: **7.21**

Document for: **APPROVAL**

Introduction:

This document contains **8** CRs on **R99** Work Item **"CS Data Bearers"**, that have been agreed by **TSG_CN WG3**, and are forwarded to TSG CN Plenary meeting **#11** for approval.

Doc-2nd-Level	Spec	CR	Rev	Cat	Subject	Phase	Version-Current	Workitem
N3-010105	23.910	023		F	RAB-assignment request (RAB parameter)	R99	3.3.0	CS Data Bearers
N3-010107	23.910	028		A	RAB-assignment request (RAB parameter)	REL-4	4.1.0	CORRECT
N3-010104	27.001	049		F	RAB-assignment request (RAB parameter)	R99	3.7.0	CS Data Bearers
N3-010106	27.001	050		A	RAB-assignment request (RAB parameter)	REL-4	4.2.0	CORRECT
N3-010147	27.001	051		F	Removal of flow diagram B.1.3.1.7	R99	3.7.0	CS Data Bearers
N3-010148	27.001	052		A	Removal of flow diagram B.1.3.1.7	REL-4	4.2.0	CORRECT
N3-010168	27.001	046	1	F	Removal of the blocking of higher modem speeds and editorial changes	R99	3.7.0	CS Data Bearers
N3-010158	27.001	047	1	A	Removal of the blocking of higher modem speeds and editorial changes	REL-4	4.2.0	CORRECT

3GPP TSG CN WG3 Meeting #16 ***Tdoc N3-010104***
Sophia, France. 26th Feb - 2nd March 2001

CR-Form-v3

CHANGE REQUEST

⌘ **27.001** **CR** **049** ⌘ **rev** **-** ⌘ **Current vers** **3.7.0** ⌘

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.*

Proposed change affects: ⌘ (U)SIM ☐ ME/UE ☒ Radio Access Network ☐ Core Network ☒

Title:	⌘	RAB- assignment request (RAB parameter)
Source:	⌘	TSG_CN WG3
Work item code:	⌘	CS Bearers
Date:	⌘	26-02-2001
Category:	⌘	**F**
Release:	⌘	R99

Use one of the following categories:
F *(essential correction)*
A *(corresponds to a correction in an earlier release)*
B *(Addition of feature),*
C *(Functional modification of feature)*
D *(Editorial modification)*
Detailed explanations of the above categories can be found in 3GPP TR 21.900.

Use one of the following releases:

2	*(GSM Phase 2)*
R96	*(Release 1996)*
R97	*(Release 1997)*
R98	*(Release 1998)*
R99	*(Release 1999)*
REL-4	*(Release 4)*
REL-5	*(Release 5)*

Reason for change:	⌘	To avoid allocation of more resources than requested by the user.
Summary of change:	⌘	Correction of table in B.1.13.2 (GBR and MBR values).
Consequences if not approved:	⌘	Possible incorrect charging due to misalignment between requested and allocated resources.

Clauses affected:	⌘	B.1.13.2		
Other specs affected:	⌘	☒ Other core specifications ☐ Test specifications ☐ O&M Specifications	⌘	TS 23.910
Other comments:	⌘			

How to create CRs using this form:
Comprehensive information and tips about how to create CRs can be found at: http://www.3gpp.org/3G_Specs/CRs.htm. 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.
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 ftp://www.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2000-09 contains the specifications resulting from the September 2000 TSG meetings.
3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

B.1.13.2 Non-transparent services

Depending on the WAIUR signalled by the MS, the network is allowed to assign any radio resources with a radio access bearer parameter indicating a Quality of Service specifying

QoS Parameter	Value	Comments
Traffic Class	Streaming	Subject to operator tuning
RAB Asymmetry Indicator	Symmetric	
Maximum bit rate	14.4, 28.8, 57.6 kbit/s	Maximum bit rate is set to the highest value ≤ WAIUR (Nnote 1)
Guaranteed bit rate	14.4, 28.8, 57.6 kbit/s~~14.4 kbit/s~~	Operator ~~can~~ may choose any of the possible values less or equal to WAIUR. (Note 1).~~14.4, 28.8 or 57.6 kbit/s.~~
Delivery Order	Yes	
Maximum SDU size	576 bits	
Transfer Delay	250 ms	Subject to operator tuning
Traffic Handling Priority	-	Not applicable to the streaming traffic class
Source statistics descriptor	Unknown	
SDU Parameters		
SDU error ratio	10 %	Subject to operator tuning
Residual bit error ratio	10^{-3}	Subject to operator tuning.
Delivery of erroneous SDUs	No error detection consideration	
SDU format information		
RAB Subflow Combination bit rate	57.6 kbit/s	(Note 2)
RAB Subflow Combination bit rate	28.8 kbit/s	(Note 2)
RAB Subflow Combination bit rate	14.4 kbit/s	
RAB Subflow Combination bit rate	0 kbit/s	indicates DTX, RFCI is not assigned

NOTE 1: If WAIUR is less or equal to 14.4 kbit/s then GBR and MBR shall be set to 14.4 kbit/s.

~~In case the WAIUR is less than Guaranteed bit rate, the Maximum bit rate is set to the Guaranteed bit rate.~~

NOTE 2: Only RAB subflow combination bit rates ≤ maximum bit rate shall be specified.

The final decision about the radio interface configuration is taken by the RNC during the Assignment procedure.

3GPP TSG CN WG3 Meeting #16 ***Tdoc N3-010105***
Sophia, France. 26th Feb - 2nd March 2001

CR-Form-v3

CHANGE REQUEST

⌘ **23.910** **CR** **023** ⌘ **rev** **-** ⌘ **Current vers** **3.3.0** ⌘

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.*

Proposed change affects: ⌘ (U)SIM ☐ ME/UE ☒ Radio Access Network ☐ Core Network ☒

Title:	⌘	RAB- assignment request (RAB parameter)
Source:	⌘	TSG_CN WG3
Work item code:	⌘	CS Bearers
Date:	⌘	26-02-2001
Category:	⌘	**F**
Release:	⌘	R99

Use one of the following categories:
F *(essential correction)*
A *(corresponds to a correction in an earlier release)*
B *(Addition of feature),*
C *(Functional modification of feature)*
D *(Editorial modification)*
Detailed explanations of the above categories can be found in 3GPP TR 21.900.

Use one of the following releases:
2 *(GSM Phase 2)*
R96 *(Release 1996)*
R97 *(Release 1997)*
R98 *(Release 1998)*
R99 *(Release 1999)*
REL-4 *(Release 4)*
REL-5 *(Release 5)*

Reason for change:	⌘	To avoid allocation of more resources than requested by the user.
Summary of change:	⌘	Correction of table in 5.2.1 (GBR and MBR values).
Consequences if not approved:	⌘	Possible incorrect charging due to misalignment between requested and allocated resources.

Clauses affected:	⌘	5.2.1.		
Other specs affected:	⌘	☒ Other core specifications ☐ Test specifications ☐ O&M Specifications	⌘	TS 27.001
Other comments:	⌘			

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3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

5.2 BC-IE to RAB QoS Mapping

Since UMTS bearer services are described by BC-IEs and RABs by QoS parameters, this section provides implicitly a mapping between the UMTS bearer services and the possible RABs that support them. The QoS mapping is based on TS 23.107.

5.2.1 Non-transparent services

Service identified by the BC IE	Non-transparent data	Comments
Traffic Class	Streaming	Subject to operator tuning
RAB Asymmetry Indicator	Symmetric	
Maximum bit rate (1)	14,4 kbit/s, 28,8 kbit/s, 57.6 kbit/s	Maximum bit rate is set to the highest value ≤ WAIUR (Note 1).
Guaranteed bit rate	14,4 kbit/s, 28,8 kbit/s, 57.6 kbit/s~~14,4 kbit/s~~	Operator ~~can~~ may choose ~~14,4 kbit/s, 28,8 kbit/s or 57,6 kbit/s.~~ any of the possible values less or equal to WAIUR. (Note 1)
Delivery Order	Yes	
Maximum SDU size	576 bits	
Transfer Delay	250 ms	Subject to operator tuning
Traffic Handling Priority	-	Not applicable to the streaming traffic class
Source statistics descriptor	Unknown	
SDU Parameters		
SDU error ratio	10 %	Subject to operator tuning
Residual bit error ratio	10^{-3}	Subject to operator tuning.
Delivery of erroneous SDUs	No error detection consideration	
SDU format information		
RAB Subflow Combination bit rate	57,6 kbit/s	(Note 2)
RAB Subflow Combination bit rate	28,8 kbit/s	(Note 2)
RAB Subflow Combination bit rate	14,4 kbit/s	
RAB Subflow Combination bit rate	0 kbit/s	indicates DTX, RFCI is not assigned

NOTE 1: If WAIUR is less or equal to 14.4 kbit/s then GBR and MBR shall be set to 14.4 kbit/s.

NOTE 2: Only RAB subflow combination bit rates ≤ maximum bit rate shall be specified.

~~NOTE 1: In case the WAIUR is less than Guaranteed bit rate, the Maximum bit rate is set to the Guaranteed bit rate.~~

~~NOTE 2: Only RAB subflow combination bit rates ≤ maximum bit rate shall be specified.~~

3GPP TSG CN WG3 Meeting #16 **N3-010106**
Sophia, France. 26th Feb - 2nd March 2001

CR-Form-v3

CHANGE REQUEST

⌘ **27.001** **CR** **050** ⌘ rev **-** ⌘ Current version: **4.2.0** ⌘

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.*

Proposed change affects: ⌘ (U)SIM ☐ ME/UE ☒ Radio Access Network ☐ Core Network ☒

Title:	⌘	RAB- assignment request (RAB parameter)
Source:	⌘	TSG_CN WG3
Work item code:	⌘	CORRECT
Date:	⌘	2001-01-15
Category:	⌘	**A**
Release:	⌘	REL-4

Use one of the following categories:
F *(essential correction)*
A *(corresponds to a correction in an earlier release)*
B *(Addition of feature),*
C *(Functional modification of feature)*
D *(Editorial modification)*
Detailed explanations of the above categories can be found in 3GPP TR 21.900.

Use one of the following releases:

2	*(GSM Phase 2)*
R96	*(Release 1996)*
R97	*(Release 1997)*
R98	*(Release 1998)*
R99	*(Release 1999)*
REL-4	*(Release 4)*
REL-5	*(Release 5)*

Reason for change:	⌘	To avoid allocation of more resources than requested by the user.
Summary of change:	⌘	Correction of table in B.1.13.2 (GBR and MBR values).
Consequences if not approved:	⌘	Possible incorrect charging due to misalignment between requested and allocated resources.

Clauses affected:	⌘	B.1.13.2		
Other specs affected:	⌘	☒ Other core specifications ☐ Test specifications ☐ O&M Specifications	⌘	TS 23.910
Other comments:	⌘			

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3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

B.1.13.2 Non-transparent services

Depending on the WAIUR signalled by the MS, the network is allowed to assign any radio resources with a radio access bearer parameter indicating a Quality of Service specifying

QoS Parameter	Value	Comments
Traffic Class	Streaming	Subject to operator tuning
RAB Asymmetry Indicator	Symmetric	
Maximum bit rate	14.4, 28.8, 57.6 kbit/s	Maximum bit rate is set to the highest value ≤ WAIUR (Nnote 1)
Guaranteed bit rate	14.4, 28.8, 57.6 ~~14.4~~ kbit/s	Operator ~~can~~ may choose any of the possible values less or equal to WAIUR. (Note 1).~~14.4, 28.8 or 57.6 kbit/s.~~
Delivery Order	Yes	
Maximum SDU size	576 bits	
Transfer Delay	250 ms	Subject to operator tuning
Traffic Handling Priority	-	Not applicable to the streaming traffic class
Source statistics descriptor	Unknown	
SDU Parameters		
SDU error ratio	10 %	Subject to operator tuning
Residual bit error ratio	10^{-3}	Subject to operator tuning.
Delivery of erroneous SDUs	No error detection consideration	
SDU format information		
RAB Subflow Combination bit rate	57.6 kbit/s	(Note 2)
RAB Subflow Combination bit rate	28.8 kbit/s	(Note 2)
RAB Subflow Combination bit rate	14.4 kbit/s	
RAB Subflow Combination bit rate	0 kbit/s	indicates DTX, RFCI is not assigned

NOTE 1: If WAIUR is less or equal to 14.4 kbit/s then GBR and MBR shall be set to 14.4 kbit/s.

~~In case the WAIUR is less than Guaranteed bit rate, the Maximum bit rate is set to the Guaranteed bit rate.~~

NOTE 2: Only RAB subflow combination bit rates ≤ maximum bit rate shall be specified.

The final decision about the radio interface configuration is taken by the RNC during the Assignment procedure.

3GPP TSG CN WG3 Meeting #16 ***Tdoc N3-010107***
Sophia, France. 26th Feb - 2nd March 2001

CR-Form-v3

CHANGE REQUEST

⌘ **23.910** **CR** **028** ⌘ **rev** **-** ⌘ **Current vers** **4.1.0** ⌘

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.*

Proposed change affects: ⌘ (U)SIM ☐ ME/UE ☒ Radio Access Network ☐ Core Network ☒

Title:	⌘	RAB- assignment request (RAB parameter)
Source:	⌘	TSG_CN WG3
Work item code:	⌘	CS Bearers
Date:	⌘	26-02-2001
Category:	⌘	**A**
Release:	⌘	REL-4

Use one of the following categories:
F *(essential correction)*
A *(corresponds to a correction in an earlier release)*
B *(Addition of feature),*
C *(Functional modification of feature)*
D *(Editorial modification)*
Detailed explanations of the above categories can be found in 3GPP TR 21.900.

Use one of the following releases:

2	*(GSM Phase 2)*
R96	*(Release 1996)*
R97	*(Release 1997)*
R98	*(Release 1998)*
R99	*(Release 1999)*
REL-4	*(Release 4)*
REL-5	*(Release 5)*

Reason for change:	⌘	To avoid allocation of more resources than requested by the user.
Summary of change:	⌘	Correction of table in 5.2.1 (GBR and MBR values).
Consequences if not approved:	⌘	Possible incorrect charging due to misalignment between requested and allocated resources.

Clauses affected:	⌘	5.2.1.		
Other specs affected:	⌘	☒ Other core specifications ☐ Test specifications ☐ O&M Specifications	⌘	TS 27.001
Other comments:	⌘			

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5.2 BC-IE to RAB QoS Mapping

Since UMTS bearer services are described by BC-IEs and RABs by QoS parameters, this section provides implicitly a mapping between the UMTS bearer services and the possible RABs that support them. The QoS mapping is based on TS 23.107.

5.2.1 Non-transparent services, including Fax

Service identified by the BC IE	Non-transparent data	Comments
Traffic Class	Streaming	Subject to operator tuning
RAB Asymmetry Indicator	Symmetric	
Maximum bit rate (1)	14,4 kbit/s, 28,8 kbit/s, 57.6 kbit/s	Maximum bit rate is set to the highest value ≤ WAIUR (Note 1).
Guaranteed bit rate	14,4 kbit/s, 28,8 kbit/s, 57.6 kbit/s~~14,4 kbit/s~~	Operator ~~can~~ may choose ~~14,4 kbit/s, 28,8 kbit/s or 57,6 kbit/s.~~ any of the possible values less or equal to WAIUR. (Note 1)
Delivery Order	Yes	
Maximum SDU size	576 bits	
Transfer Delay	250 ms	Subject to operator tuning
Traffic Handling Priority	-	Not applicable to the streaming traffic class
Source statistics descriptor	Unknown	
SDU Parameters		
SDU error ratio	10 %	Subject to operator tuning
Residual bit error ratio	10^{-3}	Subject to operator tuning.
Delivery of erroneous SDUs	No error detection consideration	
SDU format information		
RAB Subflow Combination bit rate	57,6 kbit/s	(Note 2)
RAB Subflow Combination bit rate	28,8 kbit/s	(Note 2)
RAB Subflow Combination bit rate	14,4 kbit/s	
RAB Subflow Combination bit rate	0 kbit/s	indicates DTX, RFCI is not assigned

NOTE 1: If WAIUR is less or equal to 14.4 kbit/s then GBR and MBR shall be set to 14.4 kbit/s.

NOTE 2: Only RAB subflow combination bit rates ≤ maximum bit rate shall be specified.

~~NOTE 1: In case the WAIUR is less than Guaranteed bit rate, the Maximum bit rate is set to the Guaranteed bit rate.~~

~~NOTE 2: Only RAB subflow combination bit rates ≤ maximum bit rate shall be specified.~~

3GPP TSG CN WG3 Meeting #15 ***N3-010147***
Sophia, France. 26th February– 2nd March 2001

CR-Form-v3

CHANGE REQUEST

⌘ **27.001** **CR** **051** ⌘ rev **-** ⌘ Current version: **3.7.0** ⌘

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.*

Proposed change affects: ⌘ (U)SIM ☐ ME/UE **X** Radio Access Network ☐ Core Network **X**

Title:	⌘	Handover for 56 kbit/s [Removal of flow diagram B.1.3.1.7}
Source:	⌘	TSG_CN WG3
Work item code:	⌘	CS Data Bearers ***Date:*** ⌘ 26-02-2001
Category:	⌘	**F** ***Release:*** ⌘ R99

Use one of the following categories:
F *(essential correction)*
A *(corresponds to a correction in an earlier release)*
B *(Addition of feature),*
C *(Functional modification of feature)*
D *(Editorial modification)*
Detailed explanations of the above categories can be found in 3GPP TR 21.900.

Use one of the following releases:

2	*(GSM Phase 2)*
R96	*(Release 1996)*
R97	*(Release 1997)*
R98	*(Release 1998)*
R99	*(Release 1999)*
REL-4	*(Release 4)*
REL-5	*(Release 5)*

Reason for change:	⌘	Inconsistencies related to synchronous transparent bearer services at 56 kbit/s causing particular handover problems. Diagram B.1.3.17 should have been shown as deleted in N3-000615 but this was forgotten due to a mistake (See CR-045).
Summary of change:	⌘	Deleted flow diagram B.1.3.1.7 (Bit transparent 56 kbit/s (RDI) and 64kbit/s (UDI) (UTRAN)).
Consequences if not approved:	⌘	Duplicated/confusing information in specification.

Clauses affected:	⌘	B.1.3.1.7
Other specs affected:	⌘	☐ Other core specifications ⌘ ☐ Test specifications ☐ O&M Specifications
Other comments:	⌘	

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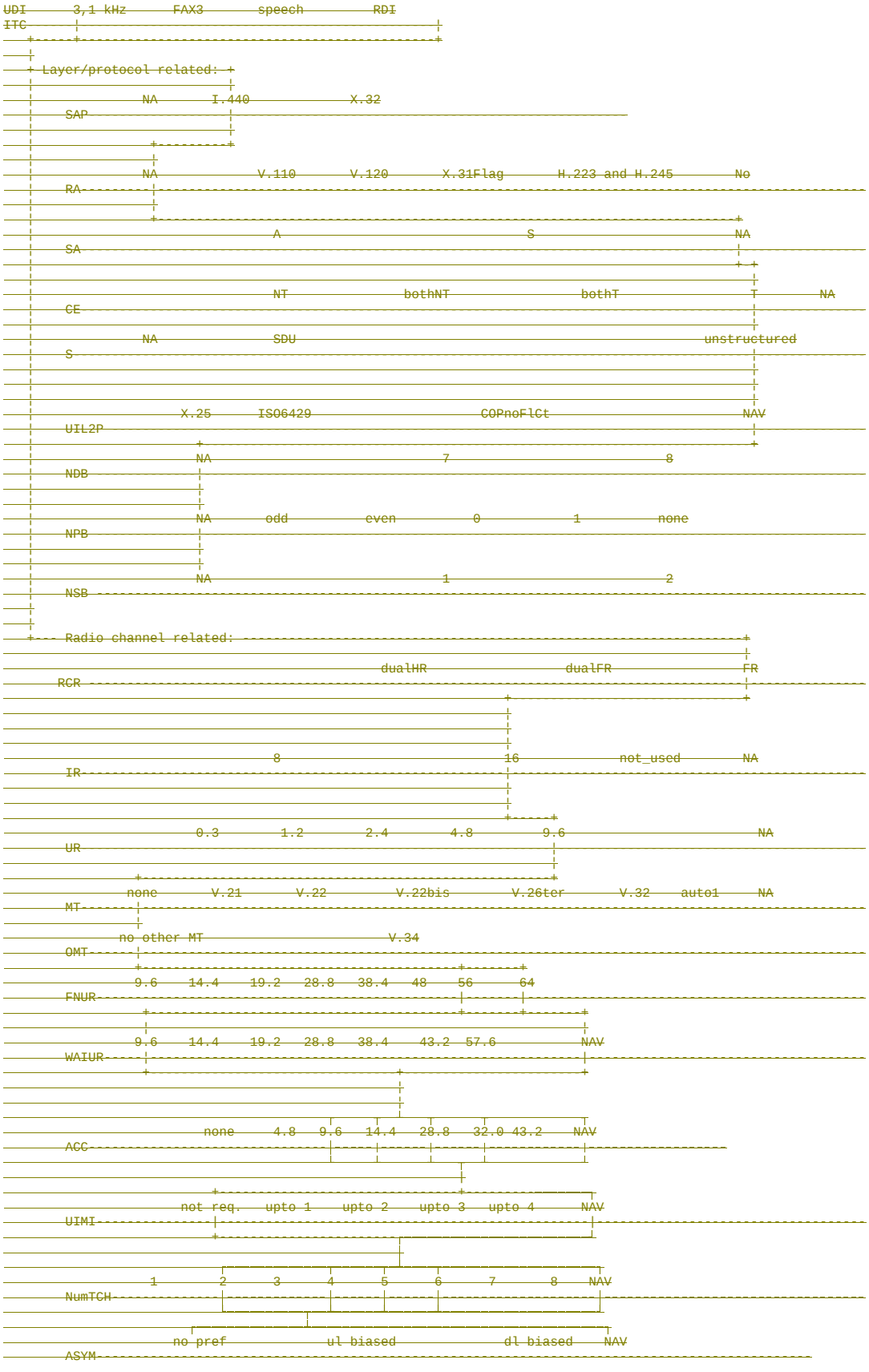
3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

B.1.3.1.7 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.~~

See B.1.3.1.3 and B.1.3.1.4.

3GPP TSG CN WG3 Meeting #15 ***N3-010148***
Sophia, France. 26th February– 2nd March 2001

CR-Form-v3

CHANGE REQUEST

⌘ **27.001** **CR** **052** ⌘ rev **-** ⌘ Current version: **4.2.0** ⌘

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.*

Proposed change affects: ⌘ (U)SIM ☐ ME/UE **X** Radio Access Network ☐ Core Network **X**

Title:	⌘	Handover for 56 kbit/s [Removal of flow diagram B.1.3.1.7]
Source:	⌘	TSG_CN WG3
Work item code:	⌘	CORRECT
Date:	⌘	26-02-2001
Category:	⌘	**A**
Release:	⌘	REL-4

Use one of the following categories:
F *(essential correction)*
A *(corresponds to a correction in an earlier release)*
B *(Addition of feature),*
C *(Functional modification of feature)*
D *(Editorial modification)*
Detailed explanations of the above categories can be found in 3GPP TR 21.900.

Use one of the following releases:
2 (GSM Phase 2)
R96 (Release 1996)
R97 (Release 1997)
R98 (Release 1998)
R99 (Release 1999)
REL-4 (Release 4)
REL-5 (Release 5)

Reason for change:	⌘	Inconsistencies related to synchronous transparent bearer services at 56 kbit/s causing particular handover problems. Diagram B.1.3.17 should have been shown as deleted in N3-000614 but this was forgotten due to a mistake (See CR-044).
Summary of change:	⌘	Deleted flow diagram B.1.3.1.7 Bit transparent 56 kbit/s (RDI) and 64kbit/s (UDI) (UTRAN)
Consequences if not approved:	⌘	Duplicated/confusing information in specification.
Clauses affected:	⌘	B.1.3.1.7
Other specs affected:	⌘	☐ Other core specifications ⌘ ☐ Test specifications ☐ O&M Specifications
Other comments:	⌘	

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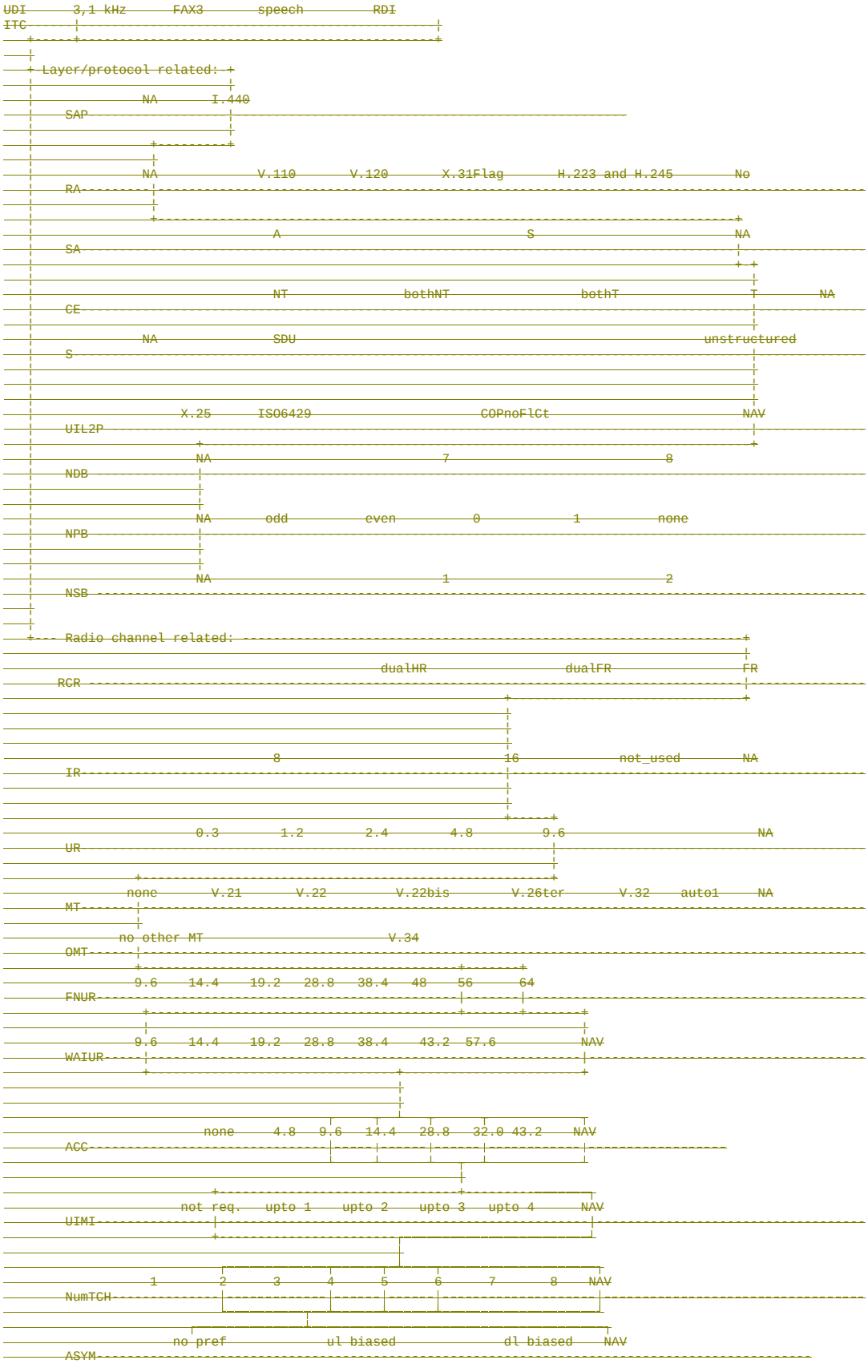
2) Obtain the latest version for the release of the specification to which the change is proposed. Use the MS Word "revision marks" feature (also known as "track changes") when making the changes. All 3GPP specifications can be downloaded from the 3GPP server under ftp://www.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2000-09 contains the specifications resulting from the September 2000 TSG meetings.

3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

B.1.3.1.7 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.~~

See B.1.3.1.3 and B.1.3.1.4.

3GPP TSG CN WG3 Meeting #16 ***N3-010158***
Sophia, France. 26th Feb - 2nd March 2001

CR-Form-v3

CHANGE REQUEST

⌘ **27.001** **CR** **047r1** ⌘ rev **-** ⌘ Current version: **4.2.0** ⌘

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.*

Proposed change affects: ⌘ (U)SIM ☐ ME/UE **X** Radio Access Network ☐ Core Network **X**

Title:	⌘	Removal of blocking of higher modem speeds
Source:	⌘	TSG_CN WG3
Work item code:	⌘	CORRECT
Date:	⌘	28-02-2001
Category:	⌘	**A**
Release:	⌘	REL-4

Use one of the following categories:
F *(essential correction)*
A *(corresponds to a correction in an earlier release)*
B *(Addition of feature),*
C *(Functional modification of feature)*
D *(Editorial modification)*
Detailed explanations of the above categories can be found in 3GPP TR 21.900.

Use one of the following releases:
2 (GSM Phase 2)
R96 (Release 1996)
R97 (Release 1997)
R98 (Release 1998)
R99 (Release 1999)
REL-4 (Release 4)
REL-5 (Release 5)

Reason for change:	⌘	Addition of WAIUR 57.6 kbit/s for support of V.90 modem and insertion of NA values for IR and UR.
Summary of change:	⌘	Added WAIUR 57.6 kbit/s in B.1.2.2, changed parameter values for FTM, PIAFS and Fax in UMTS, inserted NA values for UR/IR and corrected ACC value in Table B.5 part 3 and deleted the term R00. Restructured sequence of octets in flow diagrams.
		Note: Modifications of the flow diagrams in B.1.2.2 B.1.2.3, B.1.2.4 and B.1.10.3 are indicated as follows: New diagrams are highlighted with Green colour Deleted diagrams are highlighted with Blue colour
Consequences if not approved:	⌘	Not possible to support V.90 modems.

Clauses affected:	⌘	1, Annex B:Table B.5 part 1(User Rate) and table B.5 part 3 (ACC), B.1.2.2, B.1.2.3, B.1.2.4 and B.1.10.3.
Other specs affected:	⌘	☐ Other core specifications ⌘ ☐ Test specifications ☐ O&M Specifications
Other comments:	⌘	

How to create CRs using this form:

Comprehensive information and tips about how to create CRs can be found at: http://www.3gpp.org/3G_Specs/CRs.htm. 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.
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 ftp://www.3gpp.org/specs/ For the latest version, look for the directory name with the latest date e.g. 2000-09 contains the specifications resulting from the September 2000 TSG meetings.
3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

1 Scope

The present document is based on the principles of terminal adaptor functions presented in the ITU-T I-series of recommendations (I.460 to I.463).

The PLMN supports a wide range of voice and non-voice services in the same network. In order to enable non-voice traffic in the PLMN there is a need to connect various kinds of terminal equipment to the Mobile Termination (MT). The target of the present document is to outline the functions needed for the terminal adaptation.

In the 3GPP TS 22.002 the bearer services are described. The general network configuration is described in 3GPP TS 23.002 and the GSM PLMN access reference configuration is defined in 3GPP TS 04.02. The various connection types used in the GSM PLMN are presented in 3GPP TS 43.010. Terminology used in the present document is presented in 3GPP TS 01.04, 3GPP TR 21.905 and 3GPP TS 29.990. For support of data services between a PLMN and other networks see 3GPP TS 29.007.

The present document is valid for a 2nd generation PLMN (GSM) as well as for a 3rd generation PLMN (UMTS). If text applies only for one of these systems it is explicitly mentioned by using the terms "GSM" and "UMTS". If text applies to both of the systems, but a distinction between the ISDN/PSTN and the PLMN is necessary, the term "PLMN" is used.

NOTE: From R99 onwards the following services are no longer required by a PLMN:

- the dual Bearer Services "alternate speech/data" and "speech followed by data";
- the dedicated services for PAD and Packet access;
- BS 21 ... 26 and BS 31 ... 34.

From ~~R00~~ REL-4 onwards the following service is no longer required by a PLMN:

- the synchronous Bearer Service non-transparent (BS 30 NT).

The support of these services is still optional. The specification of these services is not within the scope of the present document. For that, the reader is referred to GSM Release 98.

Annex B (normative): Setting of Bearer Capability, Low Layer Compatibility and High Layer Compatibility Information Element for PLMN Bearer Services and PLMN TeleServices

Table B.5: BC parameter setting (part 1)

Abbreviations for Parameters and Values:		common setting of field values	default setting of field values (NA)
ITC...Information Transfer Capability:	- Speech		
	- UDI..Unrestricted Digital		
	- FAX3..Group 3 Facsimile		
	- 3,1 kHz..3,1 kHz Ex PLMN		
	- RDI..Restricted Digital		
TM....Transfer Mode:	- ci..Circuit	X	X
S.....Structure:	- SDU..Service Data Unit Integrity		
	- Unstructured	X	
C.....Configuration:	- pp..Point to point	X	X
E.....Establishment:	- de..Demand	X	X
SA....Sync/Async:	- S..Synchronous		
	- A..Asynchronous		
N.....Negotiation	- ibn..in band negotiation not possible	X	X
UR....User Rate:	- 0.3..0.3 kbit/s		
	- 1.2..1.2 kbit/s		
	- 2.4..2.4 kbit/s		
	- 4.8..4.8 kbit/s		
	- 9.6..9.6 kbit/s	X	
IR....Intermediate Rate:	- 4.. 4 kbit/s		
	- 8.. 8 kbit/s		
	- 16.. 16 kbit/s		
	- not_used..not used	X	
NICT..Network Independent Clock on Tx:	- not_required.. Not required	X	X
	- required		
NICR..Network Independent Clock on Rx:	- not_accepted..not accepted	X	X
	- accepted		
NSB...Number of Stop Bits:	- 1..1 bit	X	
	- 2..2 bit		
NDB...Number of Data Bits Excluding Parity If Present:	- 7.. 7 bit		
	- 8.. 8 bit	X	
NPB...Parity Information:	- Odd		
	- Even		
	- None	X	
	- 0.. Forced to 0		
	- 1.. Forced to 1		
UIL1P.User Information Layer 1 Protocol	- def..default layer 1 protocol	X	X

Table B.5: BC parameter setting (part 2)

Abbreviations for Parameters and Values		common setting of field values	default setting of field values (NA)
DM....Duplex Mode:	-		
	- fd.. Full Duplex	X	X
MT....Modem Type:	- V.21		
	- V.22		
	- V.22 bis		
	- V.26 ter		
	- V.32		
	- auto1.. autobauding type 1		
	- none	X	
RCR...Radio Channel Requirement:	- FR Full Rate support only Mobile Station		
	- dual HR Dual Rate support Mobile Station/ Half Rate preferred		
	- dual FR Dual Rate support Mobile Station/ Full Rate preferred		
CE....Connection Element:	- T.. Transparent		
	- NT.. Non Transparent		
	- bothT both transparent preferred		
	- bothNT both non Transparent preferred		
UIL2P.User Information Layer 2 Protocol:	- ISO6429..ISO6429,codeset 0,DC1/DC3		
	- X.25		
	- COPnoFlCt..Character oriented protocol with no flow control mechanism		
SAP...Signalling Access Protocol:	- I.440.. I.440/450	X	
RA....Rate Adaptation:	- V.110.. V.110/X.30		
	- X.31Flag.. X.31 flagstuffing		
	- NO.. no rate adaptation	X	
	- V.120		
	- PIAFS		
	- H.223 and H.245		
CS....Coding Standard:	- GSM	X	X
NIRR..Negotiation of Intermediate Rate Requested:	NM..No Meaning associated with this value	X	
	6kbit/s..6kbit/s radio interface rate requested		
DC....Data Compression	- DC.. compression possible/allowed		
	- NO.. compression not possible/allowed	X	

Table B.5: BC parameter setting (part 3)

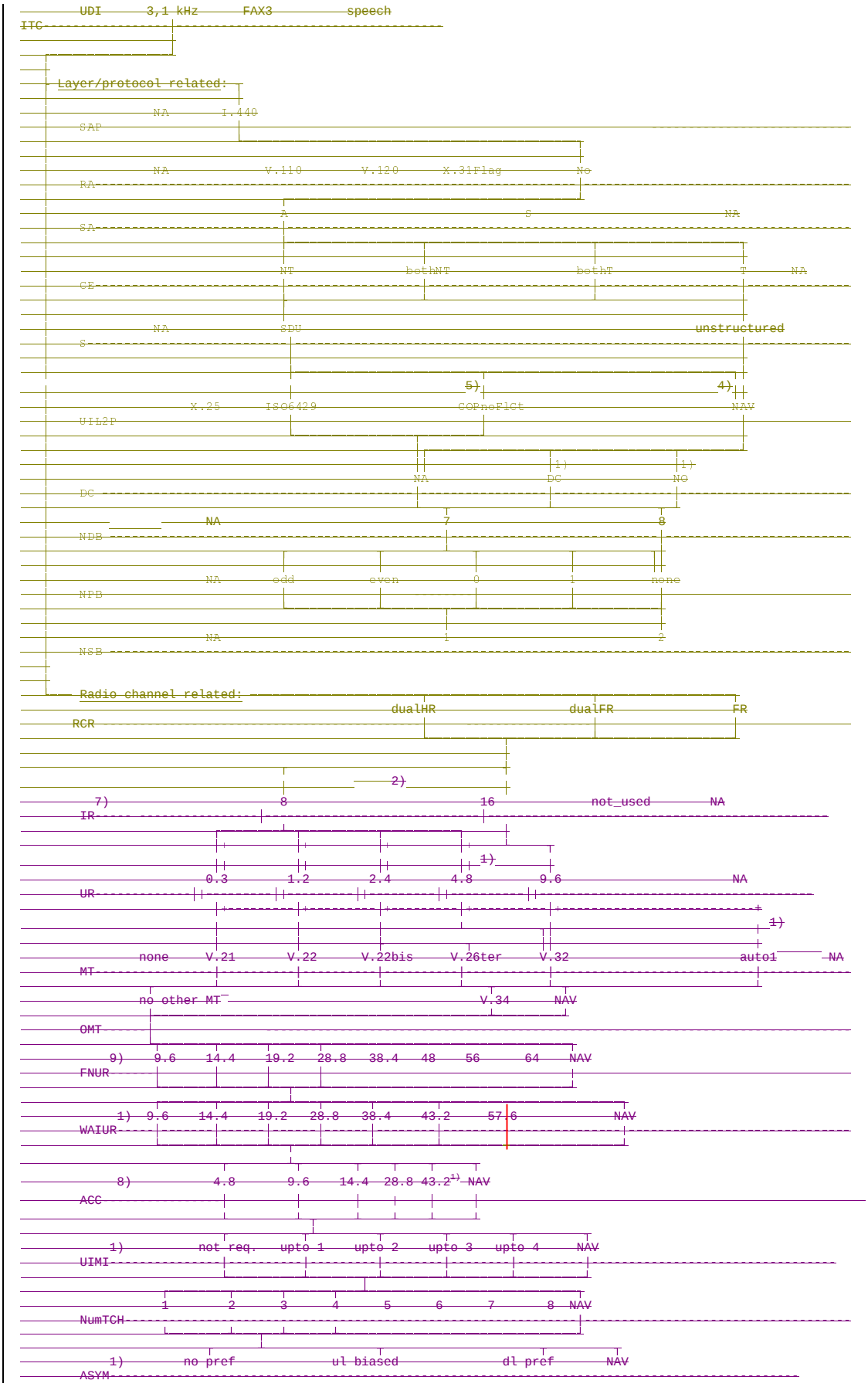
Abbreviations for Parameters and Values

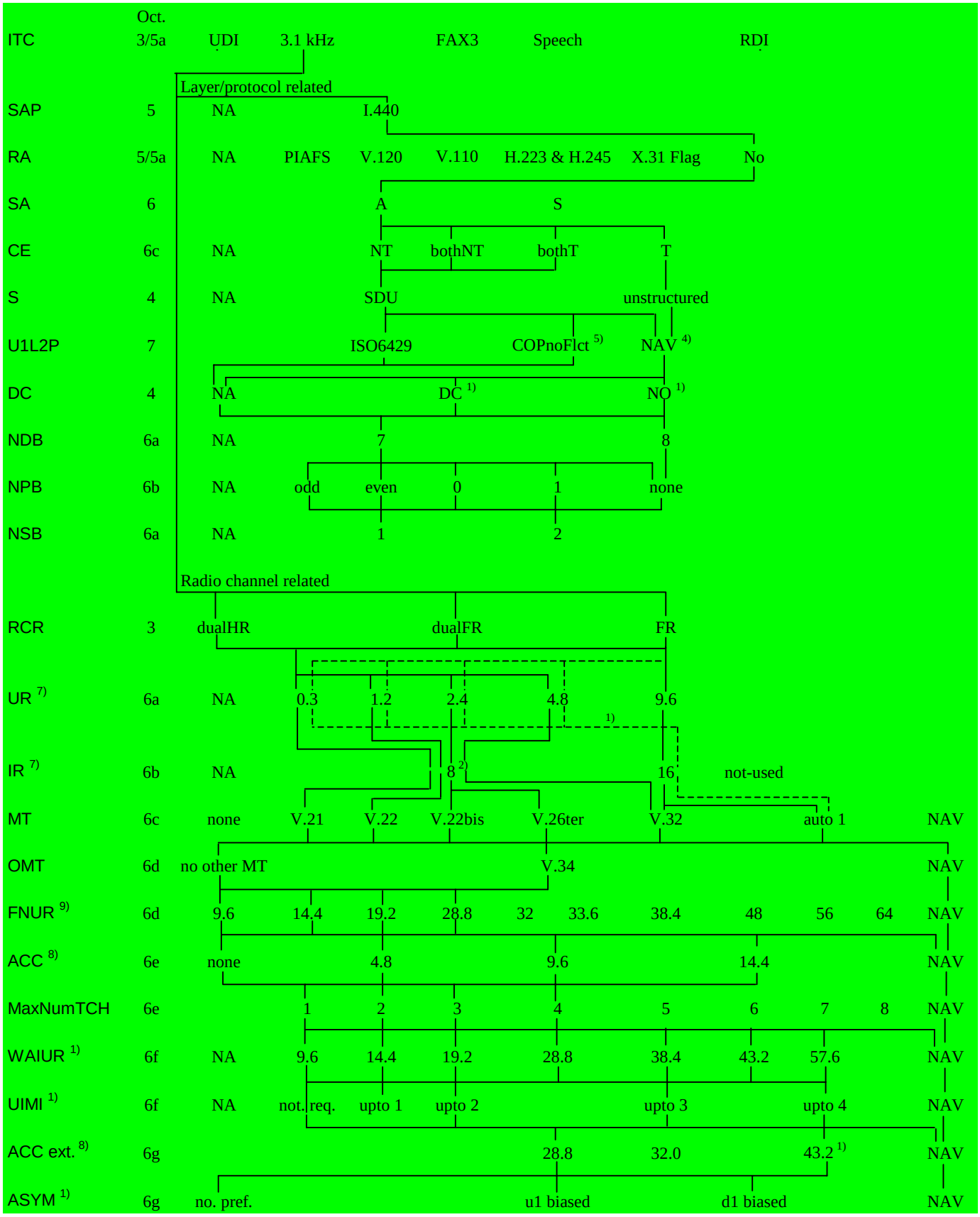
common setting of field values

default setting of field values (NA)

FNUR...Fixed Network User Rate	- FNUR not applicable		
	- 9.6.. 9.6 kbit/s		
	- 14.4.. 14.4 kbit/s		
	- 19.2.. 19.2 kbit/s		
	- 28.8.. 28.8 kbit/s		
	- 32.0.. 32.0 kbit/s		
	- 33.6.. 33.6 kbit/s		
	- 38.4.. 38.4 kbit/s		
	- 48.0.. 48.0 kbit/s		
	- 56.0.. 56.0 kbit/s		
	- 64.0.. 64.0 kbit/s		
WAIUR...Wanted Air Interface User Rate	- WAIUR not applicable		
	- 9.6.. 9.6 kbit/s	X	
	- 14.4.. 14.4 kbit/s		
	- 19.2.. 19.2 kbit/s		
	- 28.8.. 28.8 kbit/s		
	- 38.4.. 38.4 kbit/s		
	- 43.2.. 43.2 kbit/s		
	- 57.6.. 57.6 kbit/s		
	- int 38.4.. interpreted by the network as 38.4 kbit/s		
ACC.....Acceptable channel codings	- 4.8.. TCH/F4.8 acceptable		
	- 9.6.. TCH/F9.6 acceptable		
	- 14.4..TCH/F14.4 acceptable		
	- 28.8..TCH/F28.8 acceptable		
	- 32.0..TCH/F32.0 acceptable		
	- 43.2..TCH/F~~28.8 43.2~~ acceptable		
	- none..No channel coding (defined by selecting none of the above		
MaxNumTCH...Maximum Number of Traffic Channels			
	- 1.. 1 TCH		
	- 2.. 2 TCH		
	- 3.. 3 TCH		
	- 4.. 4 TCH		
	- 5.. 5 TCH		
	- 6.. 6 TCH		
	- 7.. 7 TCH		
	- 8.. 8 TCH		
OMT...Other modem type	- no other MT.. no other modem type		
	- V.34.. V.34		
User initiated modification indication	- not req.. user initiated modification not required	X	
	- upto 1 TCH.. user initiated modification upto 1 TCH may be requested		
	- upto 2 TCH.. user initiated modification upto 2 TCH may be requested		
	- upto 3 TCH.. user initiated modification upto 3 TCH may be requested		
	- upto 4 TCH.. user initiated modification upto 4 TCH may be requested		
Asymmetry preference indication	- 00 no preference		
	- 01 up link biased asymmetry preferred		
	- 10 down link biased asymmetry preferred		

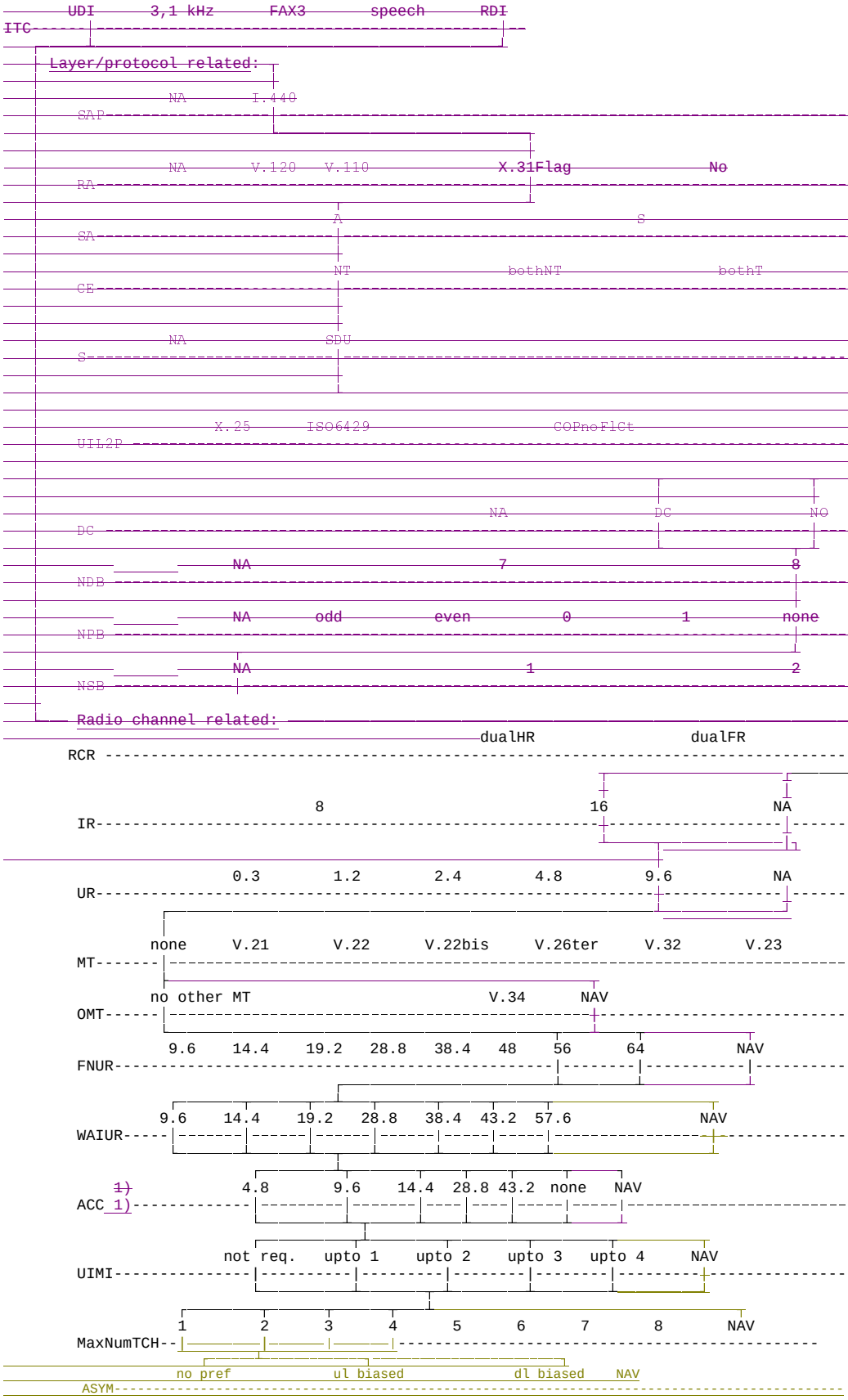
B.1.2.2 3,1 kHz audio ex-PLMN information transfer capability

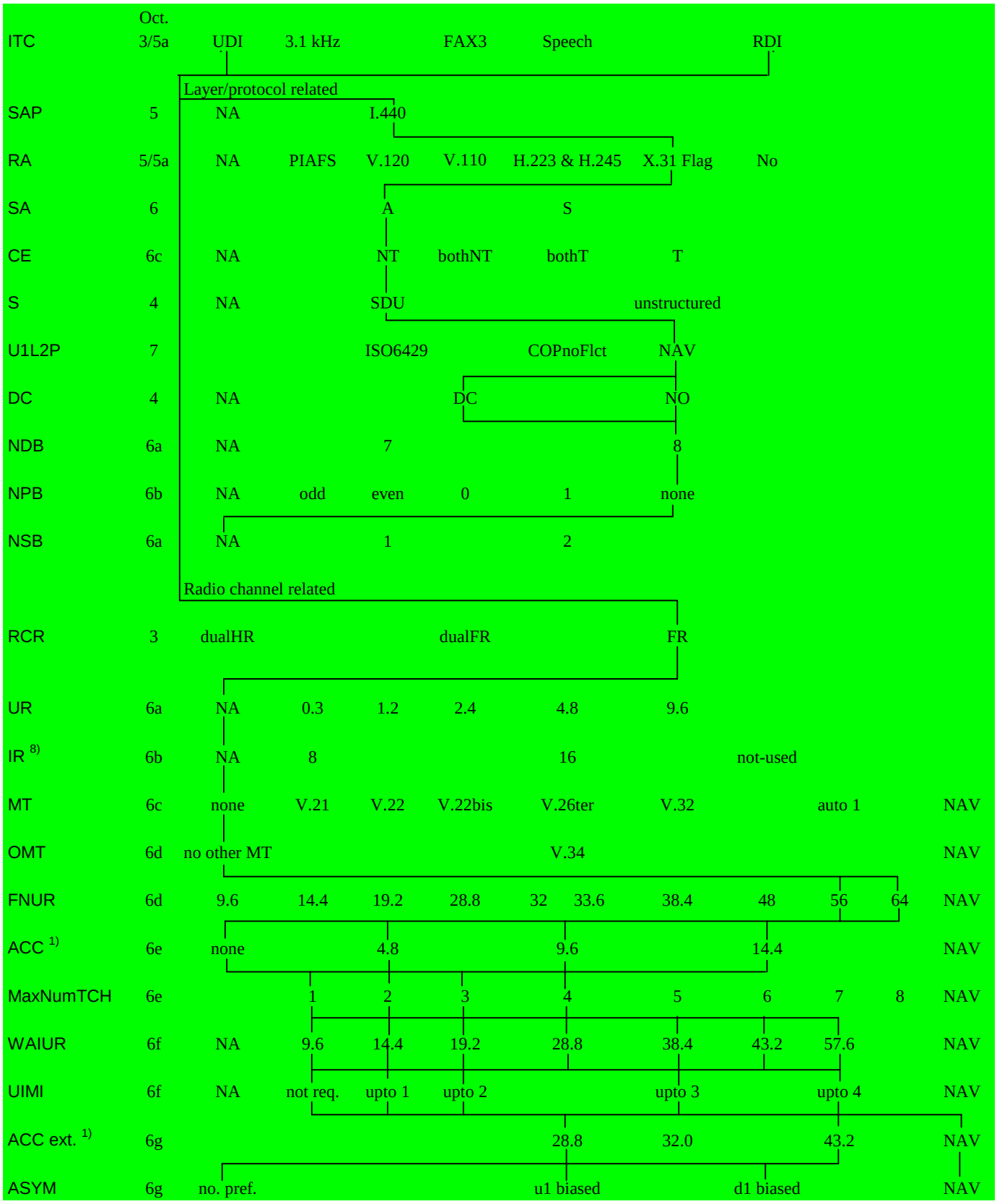



Oct.
ITC 3/5a UDI 3.1 kHz FAX3 Speech RDI
Layer/protocol related
SAP 5 NA I.440
RA 5/5a NA PIAFS V.120 V.110 H.223 & H.245 X.31 Flag No
SA 6 A S
CE 6c NA NT bothNT bothT T
S 4 NA SDU unstructured
U1L2P 7 ISO6429 COPnoFlct 5) NAV 4)
DC 4 NA DC 1) NO 1)
NDB 6a NA 7 8
NPB 6b NA odd even 0 1 none
NSB 6a NA 1 2
Radio channel related
RCR 3 dualHR dualFR FR
UR 7) 6a NA 0.3 1.2 2.4 4.8 9.6
1)
IR 7) 6b NA 8 2) 16 not-used
MT 6c none V.21 V.22 V.22bis V.26ter V.32 auto 1 NAV
OMT 6d no other MT V.34 NAV
FNUR 9) 6d 9.6 14.4 19.2 28.8 32 33.6 38.4 48 56 64 NAV
ACC 8) 6e none 4.8 9.6 14.4 NAV
MaxNumTCH 6e 1 2 3 4 5 6 7 8 NAV
WAIUR 1) 6f NA 9.6 14.4 19.2 28.8 38.4 43.2 57.6 NAV
UIMI 1) 6f NA not. req. upto 1 upto 2 upto 3 upto 4 NAV
ACC ext. 8) 6g 28.8 32.0 43.2 1) NAV
ASYM 1) 6g no. pref. u1 biased d1 biased NAV

1) for CE:NT or "both";
2) for CE:T only or CE:NT and NIRR:6kb/s (not for the SETUP message);
3) Void;
4) for MT CALLS in the SETUP message or MO/MT CALLS with "out-band" flow control requested (not for V.21 modem type);
5) for MO/MT CALLS with no flow control requested;
6) Void;
7) IR and UR are overridden ~~if~~ by FNUR, ACC and MaxNumTCH ~~are available~~.
8) ACC may have several values simultaneously (bit map coding).
9) in case of MT = auto1 the value of FNUR has no meaning.

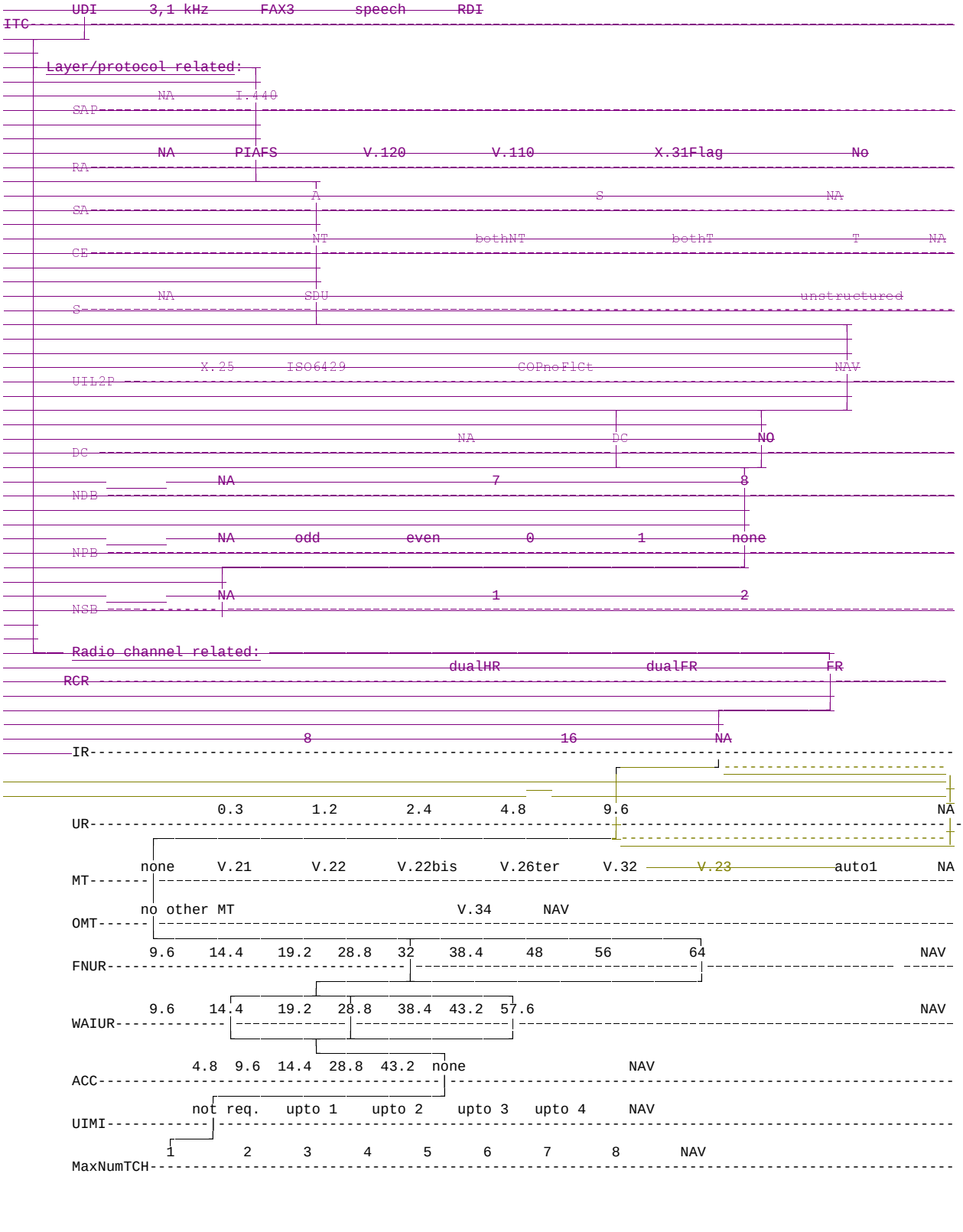
B.1.2.3 Frame Tunnelling Mode

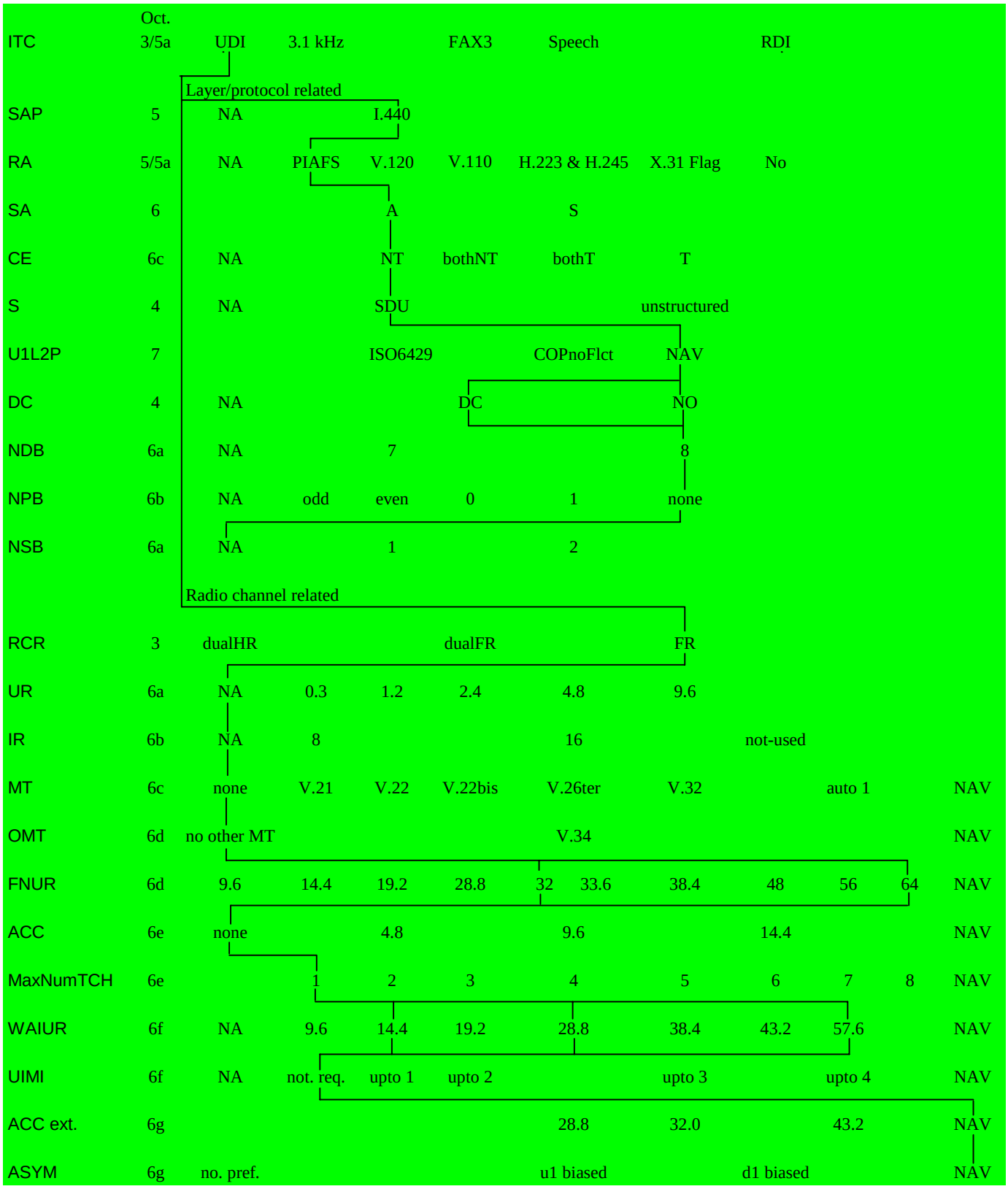




1) _____ACC may have several values simultaneously (bit map coding).

B.1.2.4 PIAFS


ITC
UDI
3,1 kHz
FAX3
speech
RDI
Layer/protocol related:
SAP
NA
I.440
RA
NA
PIAFS
V.120
V.110
X.31Flag
No
SA
A
S
NA
CE
NT
bothNT
bothT
T
NA
S
NA
SDU
unstructured
UIL2P
X.25
ISO6429
COPnoFlCt
NAV
DC
NA
DC
NO
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
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
NAV
FNUR
9.6
14.4
19.2
28.8
32
38.4
48
56
64
NAV
WAIUR
9.6
14.4
19.2
28.8
38.4
43.2
57.6
NAV
ACC
4.8
9.6
14.4
28.8
43.2
none
NAV
UIMI
not req.
upto 1
upto 2
upto 3
upto 4
NAV
MaxNumTCH
1
2
3
4
5
6
7
8
NAV


Oct.
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Layer/protocol related
SAP 5 NA I.440
RA 5/5a NA PIAFS V.120 V.110 H.223 & H.245 X.31 Flag No
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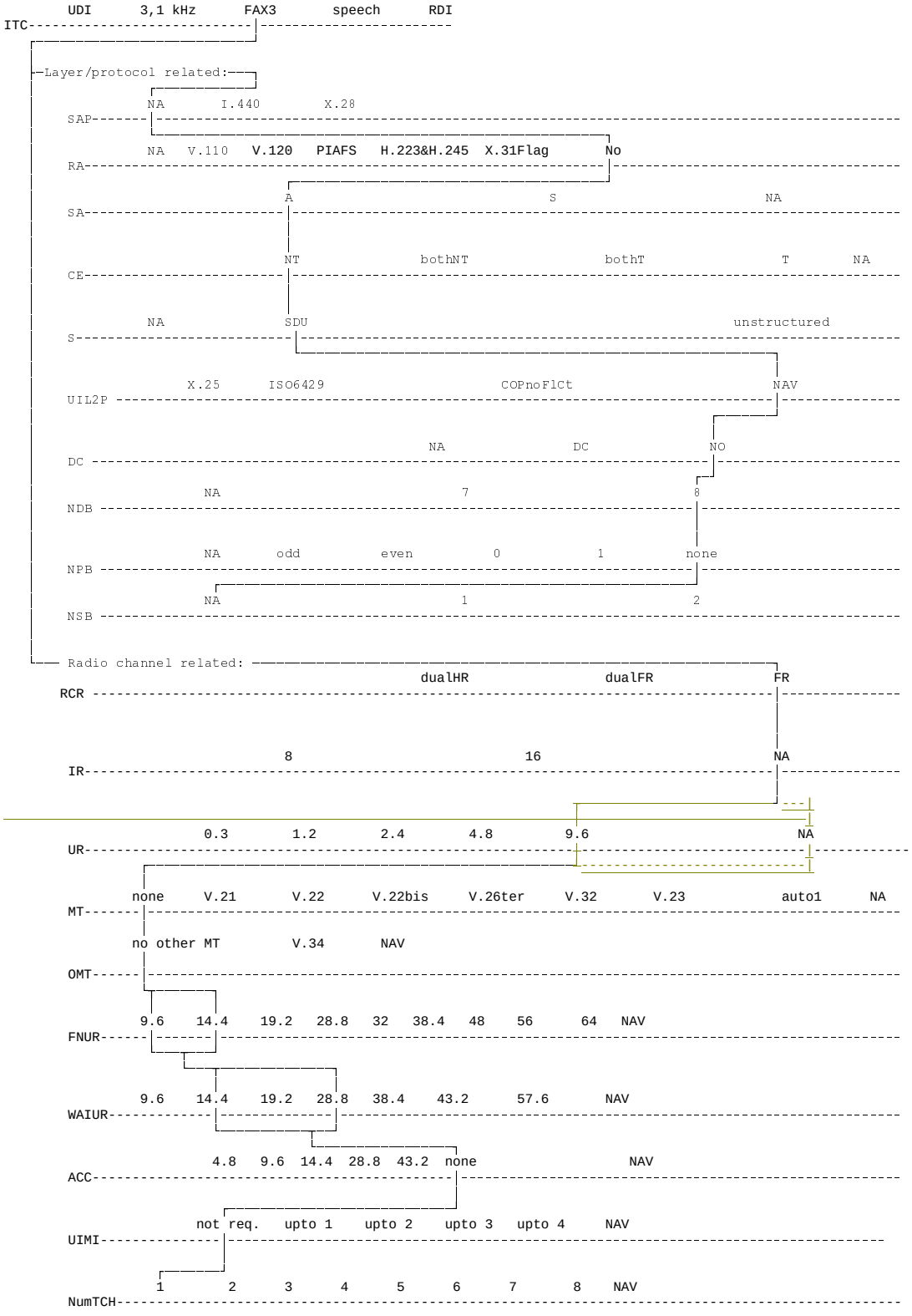
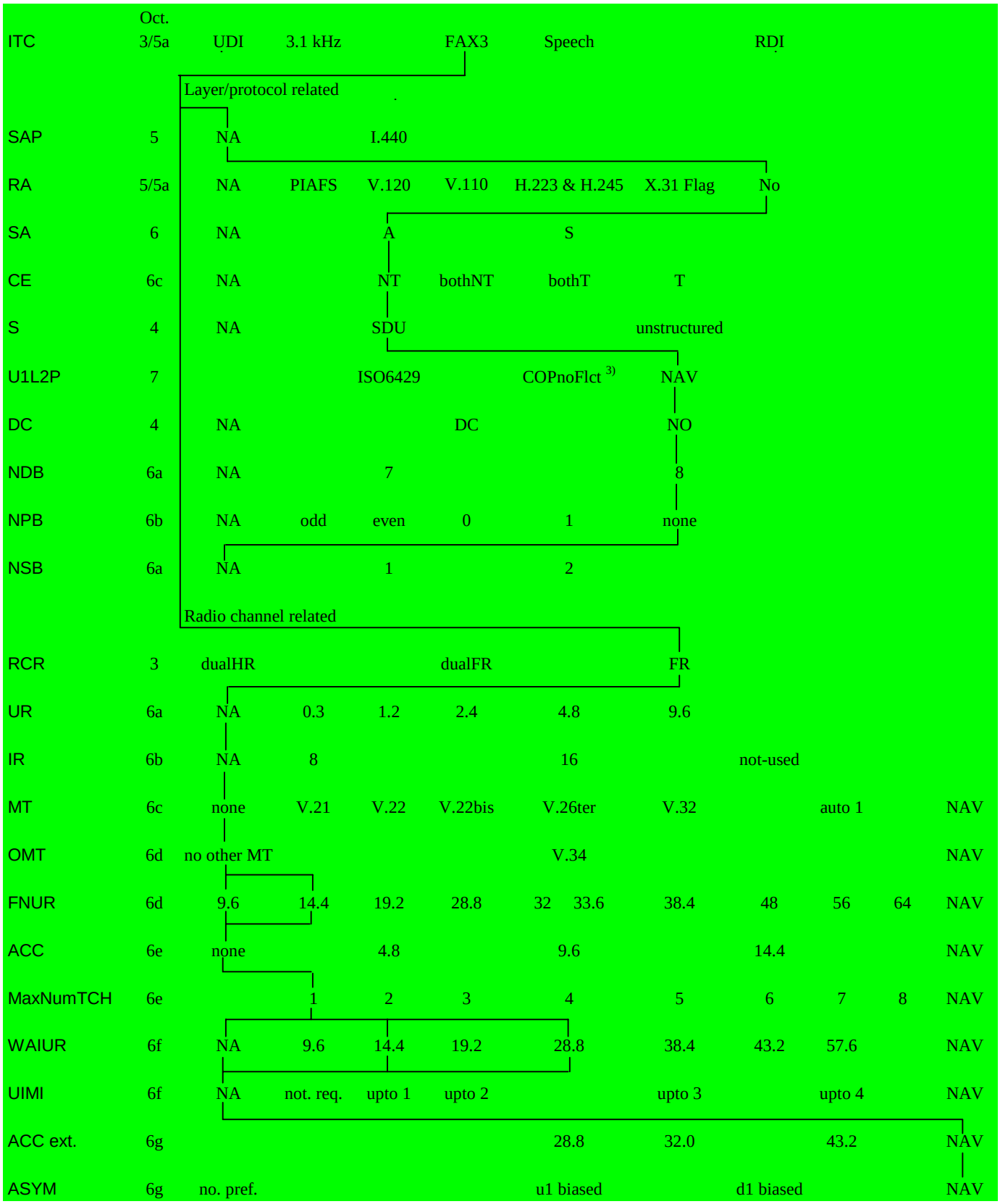
CE 6c NA NT bothNT bothT T
S 4 NA SDU unstructured
U1L2P 7 ISO6429 COPnoFlct NAV
DC 4 NA DC NO
NDB 6a NA 7 8
NPB 6b NA odd even 0 1 none
NSB 6a NA 1 2
Radio channel related
RCR 3 dualHR dualFR FR
UR 6a NA 0.3 1.2 2.4 4.8 9.6
IR 6b NA 8 16 not-used
MT 6c none V.21 V.22 V.22bis V.26ter V.32 auto 1 NAV
OMT 6d no other MT V.34 NAV
FNUR 6d 9.6 14.4 19.2 28.8 32 33.6 38.4 48 56 64 NAV
ACC 6e none 4.8 9.6 14.4 NAV
MaxNumTCH 6e 1 2 3 4 5 6 7 8 NAV
WAIUR 6f NA 9.6 14.4 19.2 28.8 38.4 43.2 57.6 NAV
UIMI 6f NA not. req. upto 1 upto 2 upto 3 upto 4 NAV
ACC ext. 6g 28.8 32.0 43.2 NAV
ASYM 6g no. pref. u1 biased d1 biased NAV

B.1.10.3 Teleservice 61, Facsimile group 3 in UMTS

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ITC 3/5a UDI 3.1 kHz FAX3 Speech RDI
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NPB 6b NA odd even 0 1 none
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IR 6b NA 8 16 not-used
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OMT 6d no other MT V.34 NAV
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ACC 6e none 4.8 9.6 14.4 NAV
MaxNumTCH 6e 1 2 3 4 5 6 7 8 NAV
WAIUR 6f NA 9.6 14.4 19.2 28.8 38.4 43.2 57.6 NAV
UIMI 6f NA not. req. upto 1 upto 2 upto 3 upto 4 NAV
ACC ext. 6g 28.8 32.0 43.2 NAV
ASYM 6g no. pref. u1 biased d1 biased NAV

3GPP TSG CN WG3 Meeting #16 ***N3-010168***
Sophia, France. 26th Feb– 2nd March 2001

CR-Form-v3

CHANGE REQUEST

⌘ **27.001** **CR** **046r1** ⌘ rev **-** ⌘ Current version: **3.7.0** ⌘

*For **HELP** on using this form, see bottom of this page or look at the pop-up text over the ⌘ symbols.*

Proposed change affects: ⌘ (U)SIM ☐ ME/UE ☒ Radio Access Network ☐ Core Network ☒

Title:	⌘	Removal of the blocking of higher modem speeds and editorial changes
Source:	⌘	TSG_CN WG3
Work item code:	⌘	CS Data Bearers
Date:	⌘	28-02-2001
Category:	⌘	**F**
Release:	⌘	R99

Use one of the following categories:
F *(essential correction)*
A *(corresponds to a correction in an earlier release)*
B *(Addition of feature),*
C *(Functional modification of feature)*
D *(Editorial modification)*
Detailed explanations of the above categories can be found in 3GPP TR 21.900.

Use one of the following releases:
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R96 (Release 1996)
R97 (Release 1997)
R98 (Release 1998)
R99 (Release 1999)
REL-4 (Release 4)
REL-5 (Release 5)

Reason for change:	⌘	Addition of WAIUR 57.6 kbit/s for support of V.90 modem, corrected parameter values for FTM and correction of various errors.
Summary of change:	⌘	Added WAIUR 57.6 kbit/s in B.1.2.2, corrected Table B.5, corrected parameter values for FTM and removed various minor errors. Added ASYM in B.1.2.3 and B.1.2.4. Note: New Excel diagrams are highlighted with Green colour
Consequences if not approved:	⌘	Not possible to support V.90 modems.

Clauses affected:	⌘	Annex B,Table B.5, B.1.2.1, B.1.2.2, B.1.2.3, B.1.2.4, B.1.3.1.3, B.1.3.1.5-B.1.3.1.6
Other specs affected:	⌘	☐ Other core specifications ⌘ ☐ Test specifications ☐ O&M Specifications
Other comments:	⌘	

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3) With "track changes" disabled, paste the entire CR form (use CTRL-A to select it) into the specification just in front of the clause containing the first piece of changed text. Delete those parts of the specification which are not relevant to the change request.

Annex B (normative): Setting of Bearer Capability, Low Layer Compatibility and High Layer Compatibility Information Element for PLMN Bearer Services and PLMN TeleServices

Table B.5: BC parameter setting (part 1)

Abbreviations for Parameters and Values	common setting of field values	default setting of field values (NA)	V	V
ITC...Information Transfer Capability:	- Speech - UDI..Unrestricted Digital - FAX3..Group 3 Facsimile - 3,1 kHz..3,1 kHz Ex PLMN - RDI..Restricted Digital			
TM....Transfer Mode:	- ci..Circuit		X	X
S.....Structure:	- SDU..Service Data Unit Integrity - Unstructured		X	
C.....Configuration:	- pp..Point to point		X	X
E.....Establishment:	- de..Demand		X	X
SA....Sync/Async:	- S..Synchronous - A..Asynchronous			
N.....Negotiation	- ibn..in band negotiation not possible		X	X
UR....User Rate:	- 0.3..0.3 kbit/s - 1.2..1.2 kbit/s - 2.4..2.4 kbit/s - 4.8..4.8 kbit/s - 9.6..9.6 kbit/s		X	
IR....Intermediate Rate:	- 4.. 4 kbit/s - 8.. 8 kbit/s - 16.. 16 kbit/s - not_used..not used		X	
NICT..Network Independent Clock on Tx:	- not_required.. Not required - required		X	X
NICR..Network Independent Clock on Rx:	- not_accepted..not accepted - accepted		X	X
NSB...Number of Stop Bits:	- 1..1 bit - 2..2 bit		X	
NDB...Number of Data Bits Excluding Parity If Present:	- 7.. 7 bit - 8.. 8 bit		X	
NPB...Parity Information:	- Odd - Even - None - 0.. Forced to 0 - 1.. Forced to 1		X	

UIL1P.User Information Layer 1 Protocol	- def..default layer 1 protocol	X	X

Table B.5: BC parameter setting (part 2)

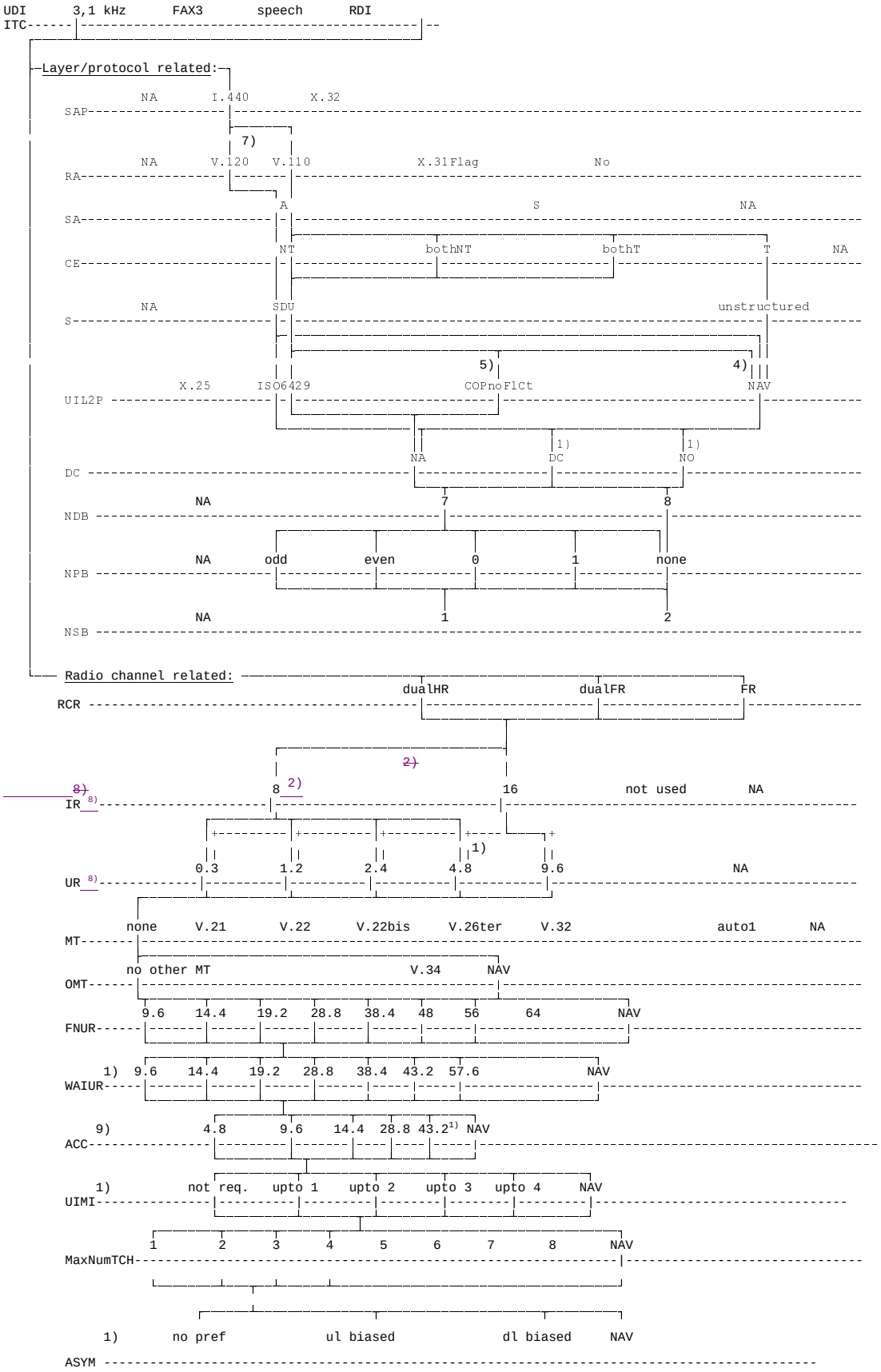
Abbreviations for Parameters and Values	common setting of field values default setting of field values (NA)	V	V
DM....Duplex Mode:	- - fd.. Full Duplex	X	X
MT....Modem Type:	- V.21 - V.22 - V.22 bis - V.26 ter - V.32 - auto1.. autobauding type 1 - none	X	
RCR...Radio Channel Requirement:	- FR Full Rate support only Mobile Station - dual HR Dual Rate support Mobile Station/ Half Rate preferred - dual FR Dual Rate support Mobile Station/ Full Rate preferred		
CE....Connection Element:	- T.. Transparent - NT.. Non Transparent - bothT both transparent preferred - bothNT both non Transparent preferred		
UIL2P.User Information Layer 2 Protocol:	- ISO6429..ISO6429,codeset 0,DC1/DC3 - X.25 - X.75..X.75 layer 2 modified (CAPI) - COPnoFlCt..Character oriented protocol with no flow control mechanism		
SAP...Signalling Access Protocol:	- I.440.. I.440/450 - X.32	X	
RA....Rate Adaptation:	- V.110.. V.110/X.30 - X.31Flag.. X.31 flagstuffing - NO.. no rate adaptation - V.120 - PIAFS - H.223 and H.245	X	
CS....Coding Standard:	- GSM	X	X
NIRR..Negotiation of Intermediate Rate Requested:	NM..No Meaning associated with this value 6kbit/s..6kbit/s radio interface rate requested	X	
DC....Data Compression	- DC.. compression possible/allowed - NO.. compression not possible/allowed	X	

Table B.5: BC parameter setting (part 3)

Abbreviations for Parameters and Values		common setting of field values	default setting of field values (NA)
			V
FNUR...Fixed Network User Rate	- FNUR not applicable - 9.6.. 9.6 kbit/s - 14.4.. 14.4 kbit/s - 19.2.. 19.2 kbit/s - 28.8.. 28.8 kbit/s - 32.0.. 32.0 kbit/s - 33.6.. 33.6 kbit/s - 38.4.. 38.4 kbit/s - 48.0.. 48.0 kbit/s - 56.0.. 56.0 kbit/s - 64.0.. 64.0 kbit/s		
WAIUR...Wanted Air Interface User Rate	- WAIUR not applicable - 9.6.. 9.6 kbit/s - 14.4.. 14.4 kbit/s - 19.2.. 19.2 kbit/s - 28.8.. 28.8 kbit/s - 38.4.. 38.4 kbit/s - 43.2.. 43.2 kbit/s - 57.6.. 57.6 kbit/s - int 38.4.. interpreted by the network as 38.4 kbit/s		X
ACC.....Acceptable channel codings	- 4.8.. TCH/F4.8 acceptable - 9.6.. TCH/F9.6 acceptable - 14.4..TCH/F14.4 acceptable - 28.8..TCH/F28.8 acceptable - 32.0..TCH/F32.0 acceptable - 43.2..TCH/F~~28.8~~43.2 acceptable - none..No channel coding (defined by selecting none of the above		
MaxNumTCH...Maximum Number of Traffic Channels	- 1.. 1 TCH - 2.. 2 TCH - 3.. 3 TCH - 4.. 4 TCH - 5.. 5 TCH - 6.. 6 TCH - 7.. 7 TCH - 8.. 8 TCH		
OMT...Other modem type	- no other MT.. no other modem type - V.34.. V.34		
User initiated modification indication	- not req.. user initiated modification not required - upto 1 TCH.. user initiated modification upto 1 TCH may be requested - upto 2 TCH.. user initiated modification upto 2 TCH may be requested - upto 3 TCH.. user initiated modification upto 3 TCH may be requested - upto 4 TCH.. user initiated modification upto 4 TCH may be requested		X
Asymmetry preference indication	- 00 no preference - 01 up link biased asymmetry preferred - 10 down link biased asymmetry preferred		

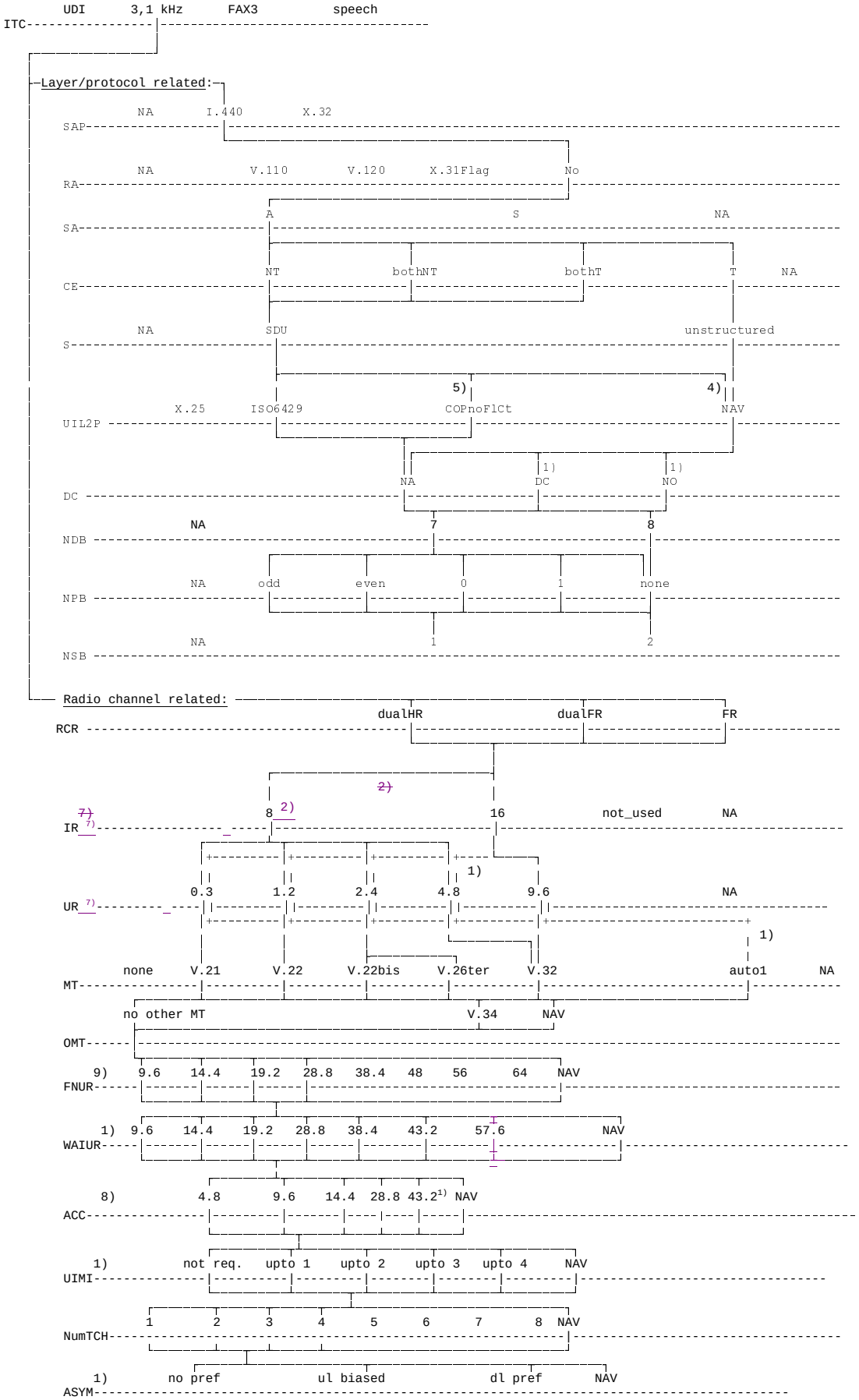
B.1.2 Bearer Service 20, Data Circuit Duplex Asynchronous

B.1.2.1 Unrestricted / restricted digital information transfer capability



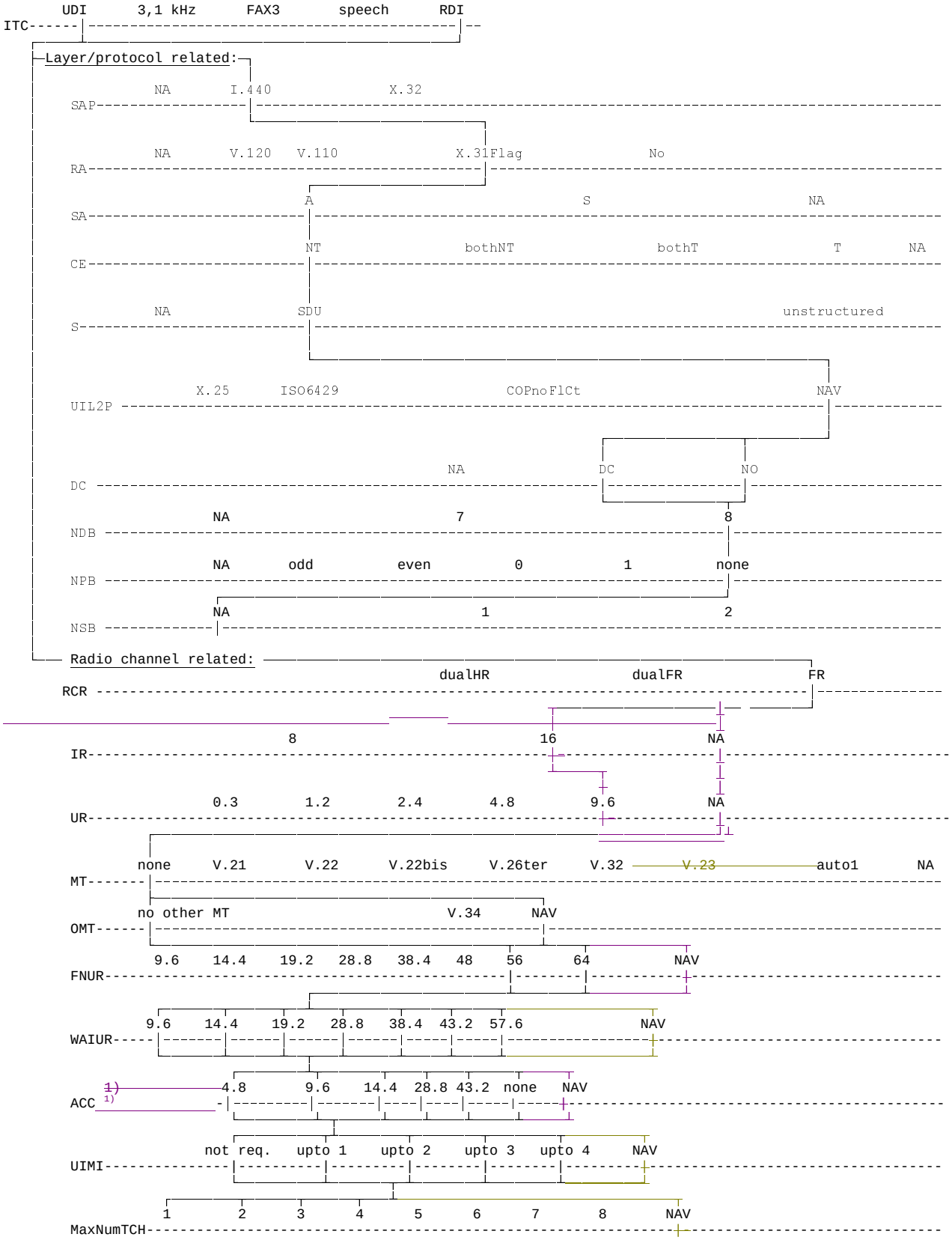
1) for CE:NT or "both";
2) for CE:T only or CE:NT and NIRR:6kb/s (not for the SETUP message);
3) Void;
4) for MT CALLS in the SETUP message or MO/MT CALLS with "out-band" flow control requested;
5) for MO/MT CALLS with no flow control requested;
6) Void;
7) the V.120 relevant BC parameters (octet 5b) shall be set according to the LLC (see clause B.2);
8) IR and UR are overridden ~~if~~ by FNUR, ACC and MaxNumTCH ~~are available~~;
9) ACC may have several values simultaneously (bit map coding).

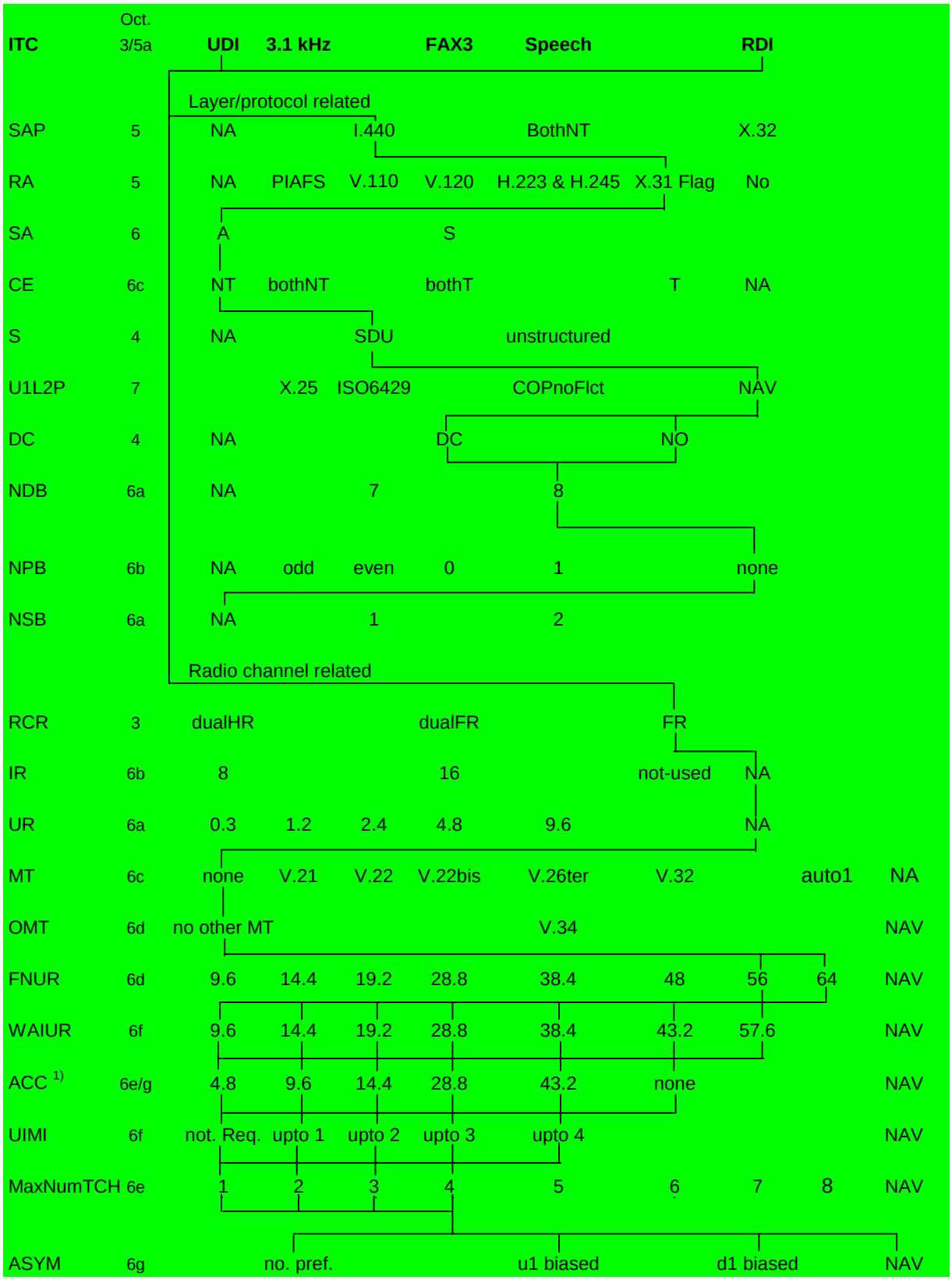
B.1.2.2 3,1 kHz audio ex-PLMN information transfer capability



1) for CE:NT or "both";
2) for CE:T only or CE:NT and NIRR:6kb/s (not for the SETUP message);
3) Void;
4) for MT CALLS in the SETUP message or MO/MT CALLS with "out-band" flow control requested (not for V.21 modem type);
5) for MO/MT CALLS with no flow control requested;
6) Void;
7) IR and UR are overridden ~~if~~ by FNUR, ACC and MaxNumTCH ~~are available~~.
8) ACC may have several values simultaneously (bit map coding).
9) in case of MT = auto1 the value of FNUR has no meaning.

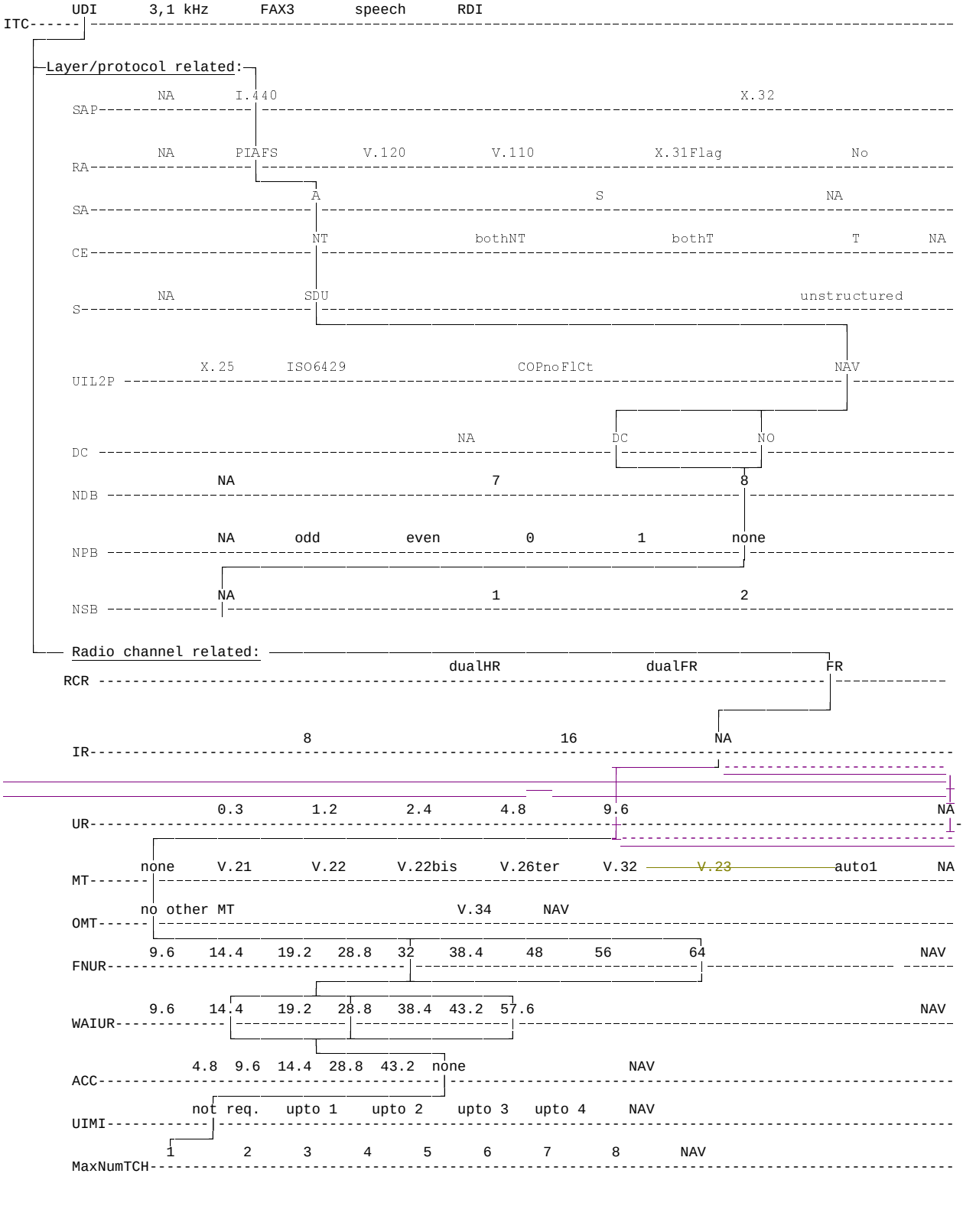
B.1.2.3 Frame Tunnelling Mode

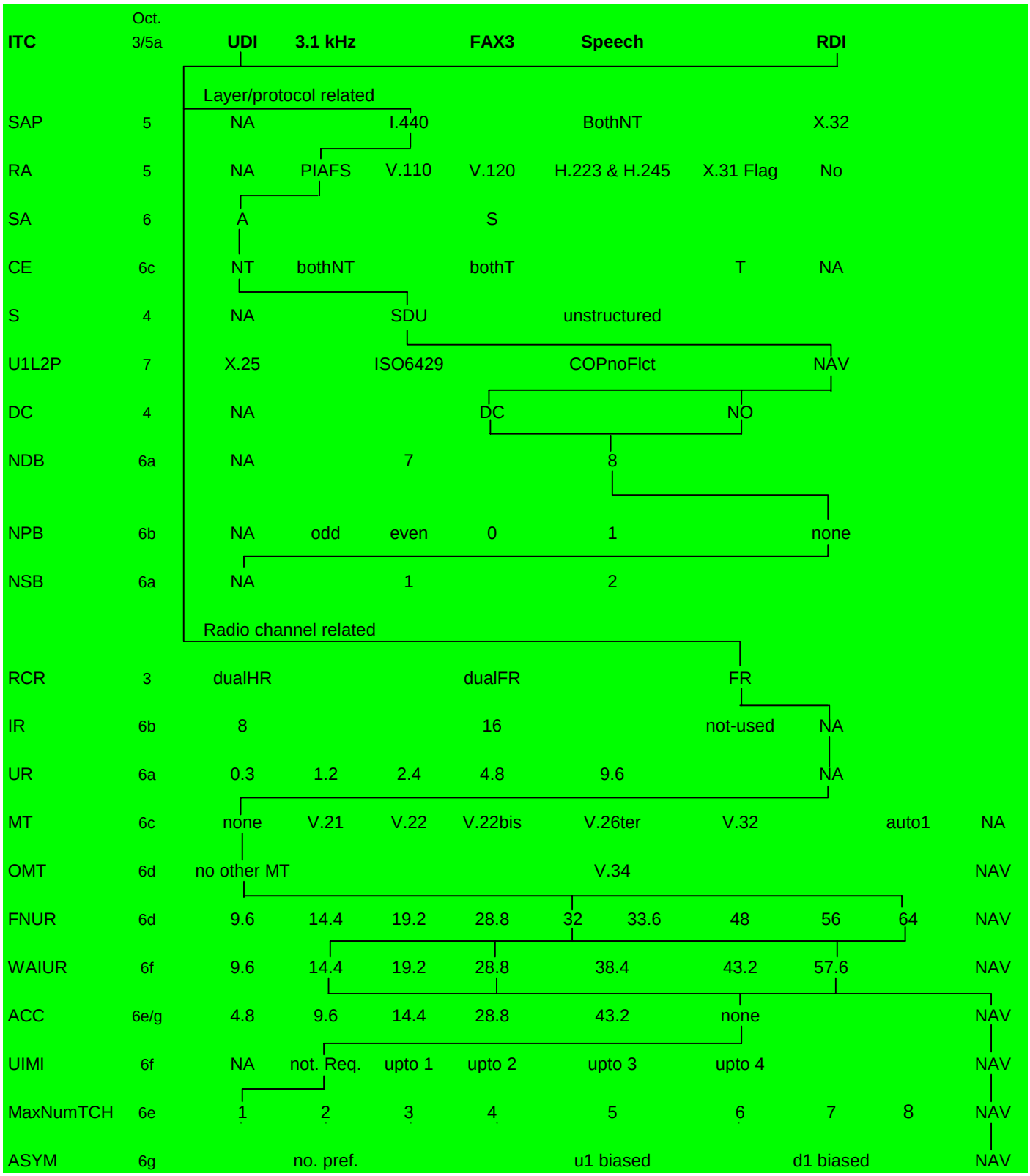




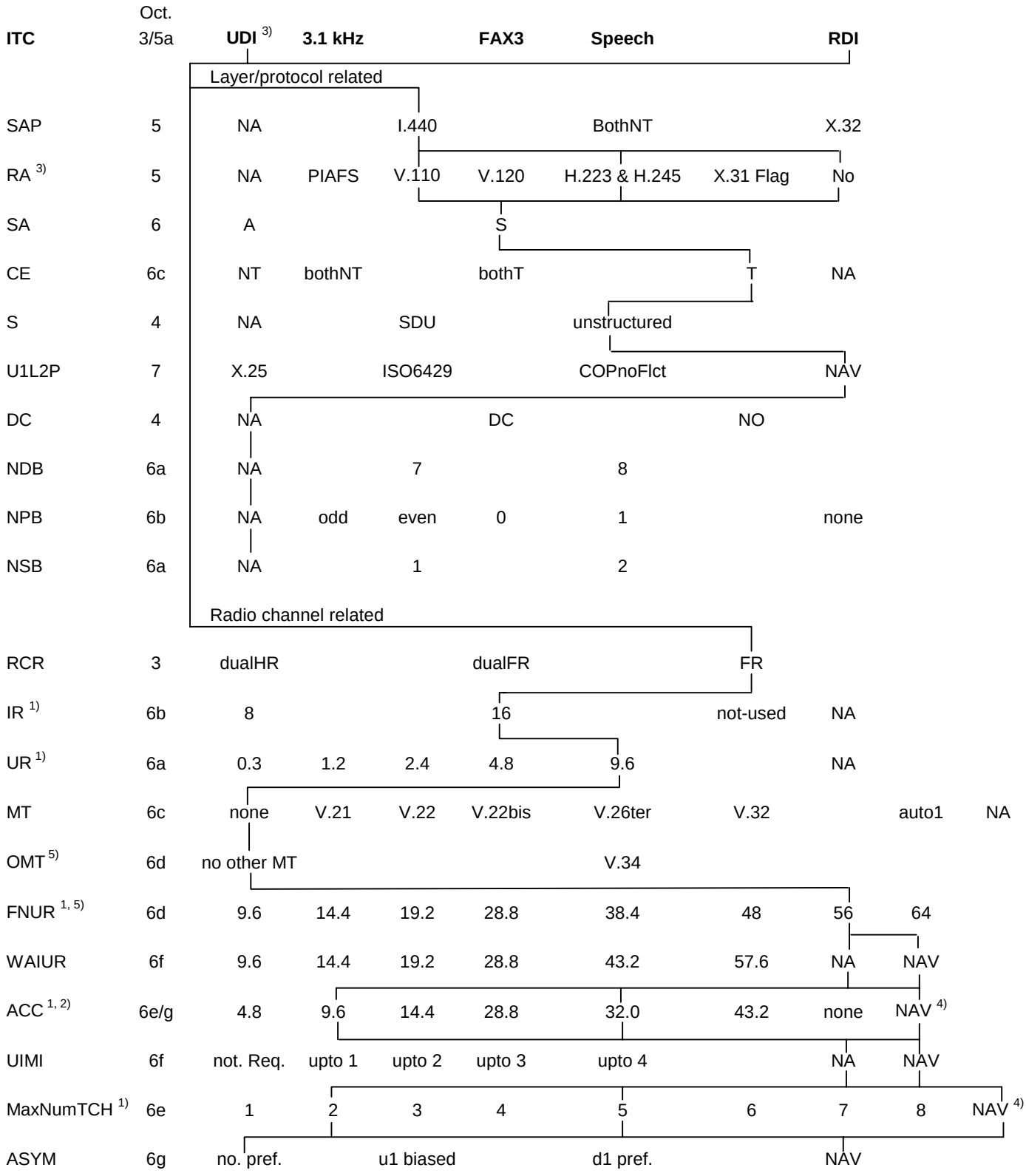
1) ~~1)~~ ACC may have several values simultaneously (bit map coding).

B.1.2.4 PIAFS


UDI
3,1 kHz
FAX3
speech
RDI
ITC
Layer/protocol related:
NA
I.440
X.32
SAP
NA
PIAFS
V.120
V.110
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
DC
NO
DC
NA
7
8
NDB
NA
odd
even
0
1
none
NPB
NA
1
2
NSB
Radio channel related:
dualHR
dualFR
FR
RCR
8
16
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
V.23
auto1
NA
MT
no other MT
V.34
NAV
OMT
9.6
14.4
19.2
28.8
32
38.4
48
56
64
NAV
FNUR
9.6
14.4
19.2
28.8
38.4
43.2
57.6
NAV
WAIUR
4.8
9.6
14.4
28.8
43.2
none
NAV
ACC
not req.
upto 1
upto 2
upto 3
upto 4
NAV
UIMI
1
2
3
4
5
6
7
8
NAV
MaxNumTCH


ITC
Oct. 3/5a
UDI
3.1 kHz
FAX3
Speech
RDI
Layer/protocol related
SAP 5 NA I.440 BothNT X.32
RA 5 NA PIAFS V.110 V.120 H.223 & H.245 X.31 Flag No
SA 6 A S
CE 6c NT bothNT bothT T NA
S 4 NA SDU unstructured
U1L2P 7 X.25 ISO6429 COPnoFlct NAV
DC 4 NA DC NO
NDB 6a NA 7 8
NPB 6b NA odd even 0 1 none
NSB 6a NA 1 2
Radio channel related
RCR 3 dualHR dualFR FR
IR 6b 8 16 not-used NA
UR 6a 0.3 1.2 2.4 4.8 9.6 NA
MT 6c none V.21 V.22 V.22bis V.26ter V.32 auto1 NA
OMT 6d no other MT V.34 NAV
FNUR 6d 9.6 14.4 19.2 28.8 32 33.6 48 56 64 NAV
WAIUR 6f 9.6 14.4 19.2 28.8 38.4 43.2 57.6 NAV
ACC 6e/g 4.8 9.6 14.4 28.8 43.2 none NAV
UIMI 6f NA not. Req. upto 1 upto 2 upto 3 upto 4 NAV
MaxNumTCH 6e 1 2 3 4 5 6 7 8 NAV
ASYM 6g no. pref. u1 biased d1 biased NAV

B.1.3.1.3 Transparent FNUR=56 kbit/s, including 3G-H.324/M, (TCH/F9.6, TCH/F32.0, UTRAN)

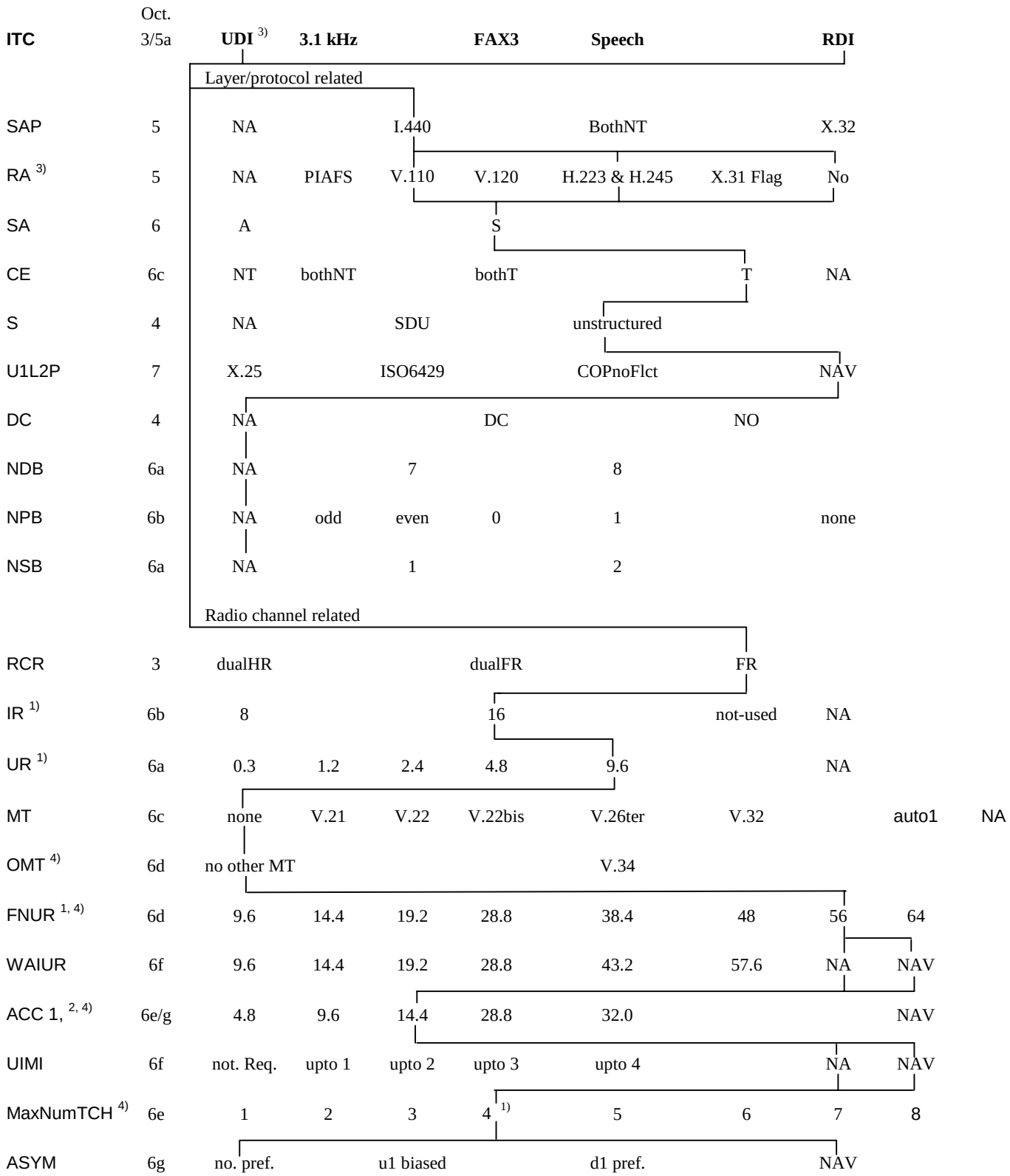


1) IR and UR are overridden by FNUR, ACC and MaxNumTCH ~~are available~~. IR and UR are not applicable to UMTS.

2) ACC may have several values simultaneously (bit map coding). However, handover to/from UTRAN is not possible if the network assigns other traffic channels than TCH/F9.6 or TCH/F32.0.
3) In case ITC=UDI, RA shall be set to V.110 or H.223&H245.
4) In case ACC and MaxNumTCH are not available operation is restricted to UTRAN.
5) The parameters FNUR and OMT are mandatory for this service.

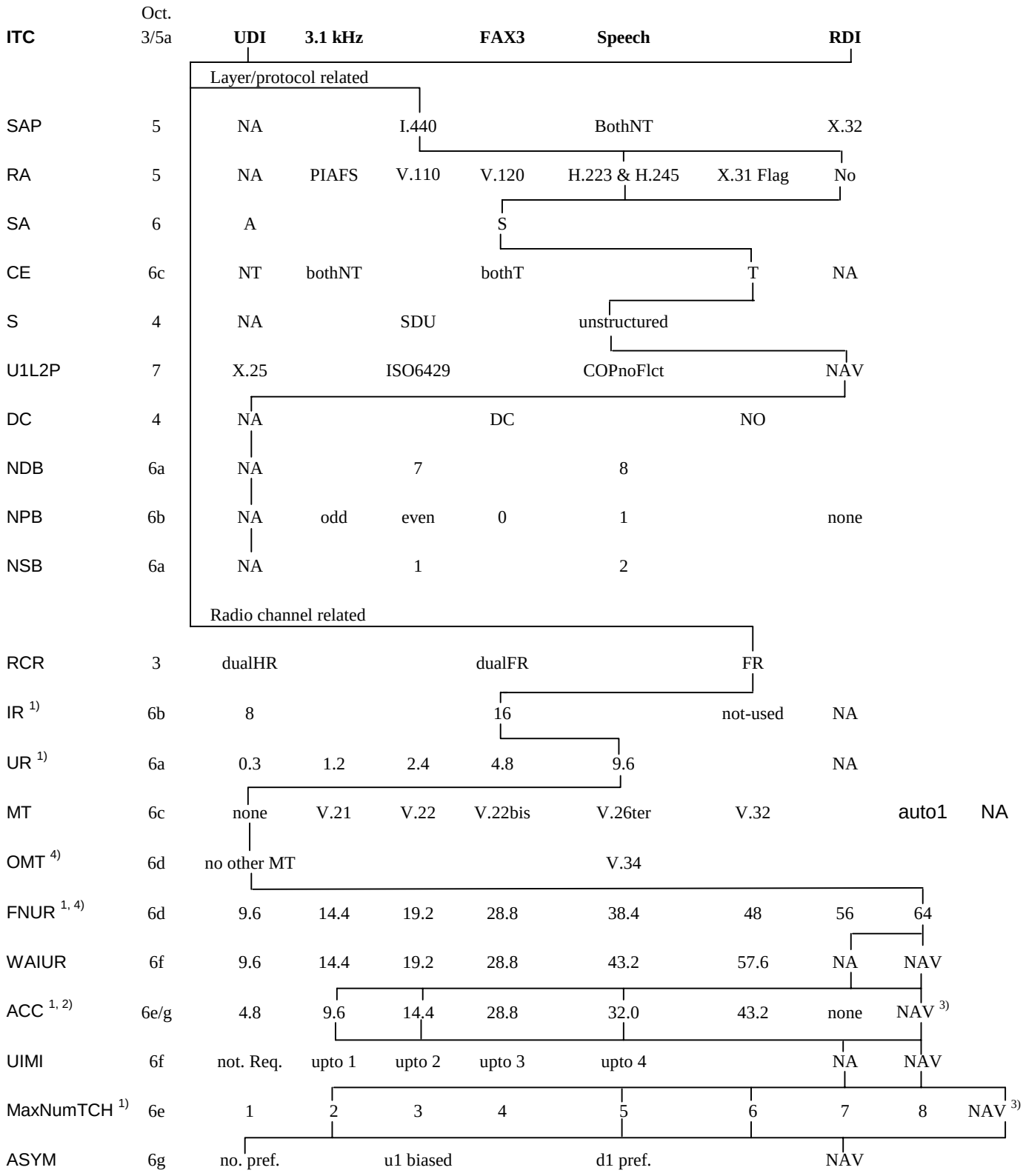
B.1.3.1.4 Transparent FNUR=56 kbit/s, including 3G-H.324M (TCH/F14.4)

Applies to GSM/GERAN only, no HO to/from UTRAN



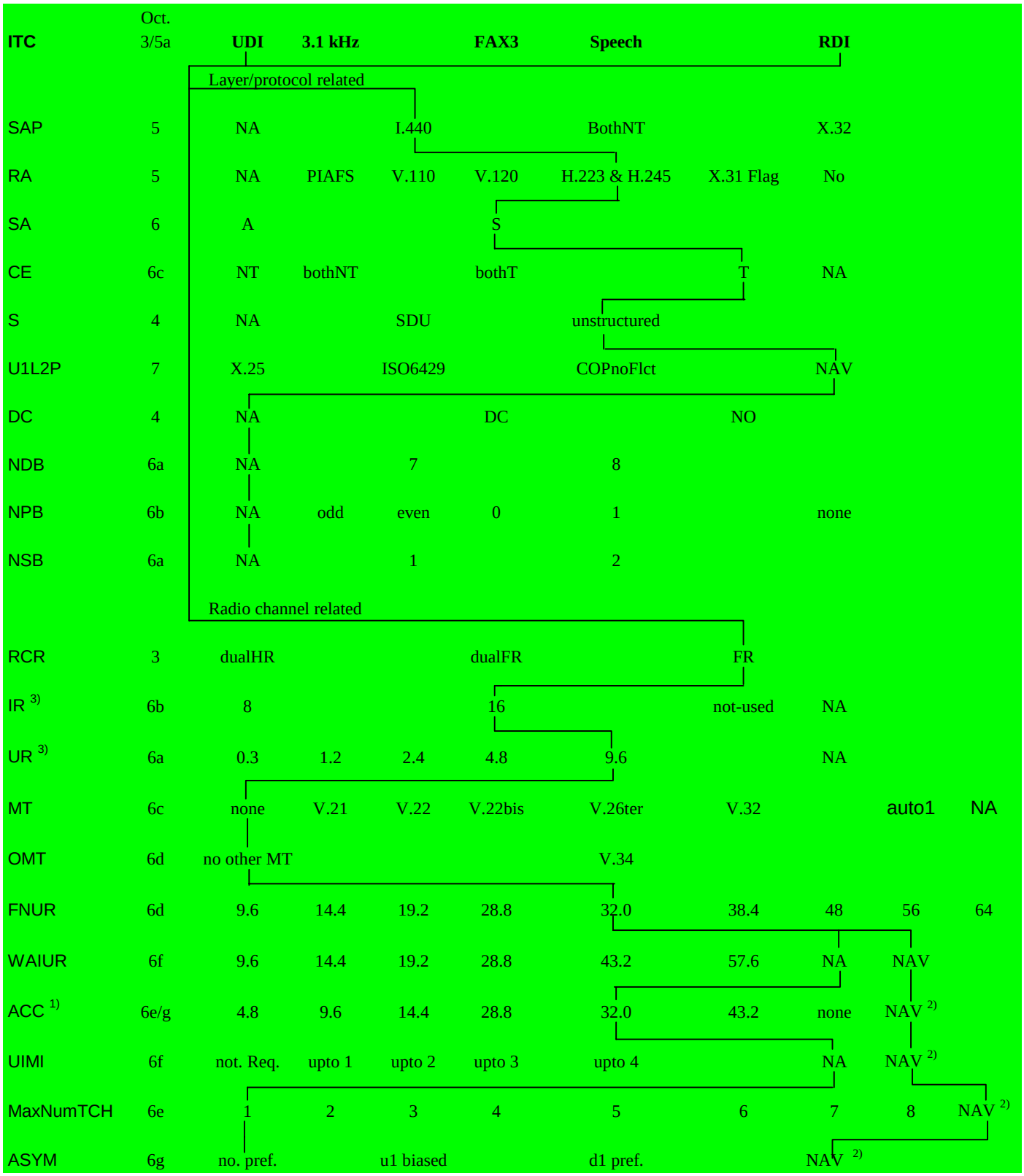
1) IR and UR are overridden by FNUR, ACC and MaxNumTCH ~~if available~~.
2) ACC may have several values simultaneously (bit map coding).
3) In case ITC=UDI, RA shall be set to V.110 or H.223 & H245.
4) The parameters FNUR, OMT, ACC and MaxNumTCH are mandatory for this service.

B.1.3.1.5 Transparent FNUR = 64kbit/s including 3G-H.324/M (TCH/F9.6, TCH/F14.4, TCH/F32.0, UTRAN)



1) IR and UR are overridden by FNUR, ACC and MaxNumTCH ~~if available~~. .IR and UR are not applicable to UMTS.
2) ACC may have several values simultaneously (bit map coding).
3) If ACC and MaxNumTCH are not available operation is restricted to UTRAN.
4) The parameters FNUR and OMT are mandatory for this service.

B.1.3.1.6 3G-H.324/M, FNUR=32.0 kbit/s (TCH/F32.0, UTRAN)



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

2) ~~2)~~ If ACC, UIMI, MaxNumTCH and ASYM are not available operation is restricted to UTRAN.

3) IR and UR are overridden by FNUR, ACC and MaxNumTCH. IR and UR are not applicable to UMTS.