Recommendation T/CAC S 10.6 E
(Cannes 1983, revised in Odense 1986, Vienna 1989(CAC) and Athens 1992)
Formerly Recommendation T/SF 31-06 E

RELEVANCE OF SUPPLEMENTARY SERVICES TO BE PROVIDED IN AN INTEGRATED SERVICES DIGITAL NETWORK (ISDN)

Recommendation proposed by Working Group T/GT 7 "Services and Facilities" (SF)
Amendments proposed by Project Team Service Descriptions for the ISDN (SDI)

Text of the recommendation adopted by Commercial Action Committee (CAC)

INTRODUCTION

This recommendation contains matrices showing the relevance and priority of the supplementary services to ISDN bearer services and teleservices.

The European Conference of Post and Telecommunications Administrations

recommends

1 GENERAL ASPECTS

That the operation of supplementary service should always be relevant to the form of traffic being carried. Further details on supplementary services, see recommendations T/CAC S 10.1, T/CAC S 10.5 and T/CAC S 10.7.

2 SUPPLEMENTARY SERVICES TO BEARER SERVICES MATRIX

A matrix indicating the relevance and the priority of general introduction of each supplementary service to each ISDN bearer service is contained in Annex 1.

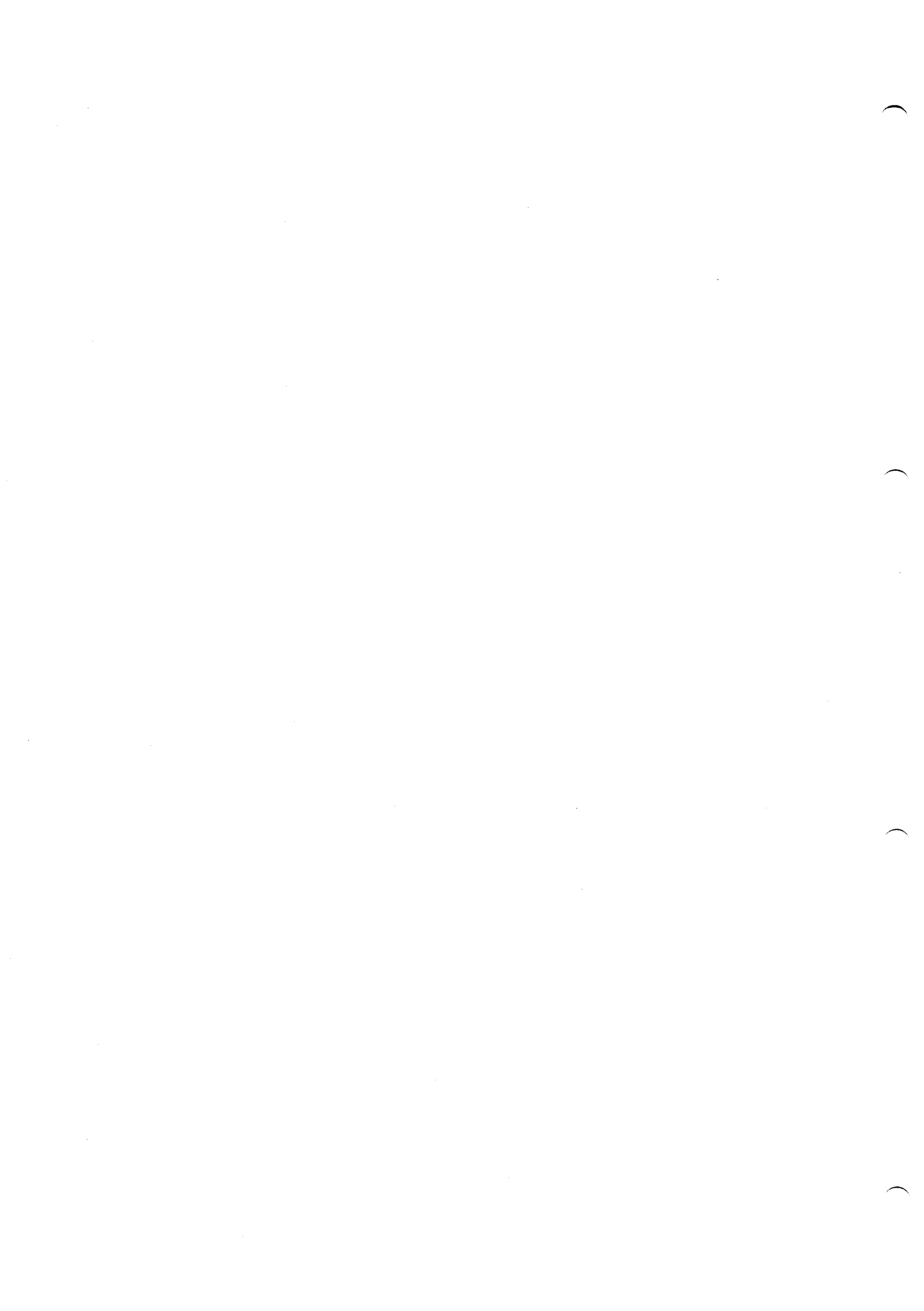## 3 SUPPLEMENTARY SERVICES TO TELESERVICES MATRIX

A matrix indicating the relevance and the priority of general introduction of each supplementary service to each ISDN teleservice is contained in Annex 2.

> NOTE: The following symbols have been used in Annex 1 and 2. Where more than one variant of a supplementary service exists, the supplementary service family name has been used and allocated a priority of introduction.
> E indicates that the supplementary service is essential and has a high priority for introduction.
> A indicates that the supplementary service is identified as additional and has a lower priority for introduction.
> T supplementary services in principle may be located in either the network or in the terminal or a combination of both. The T indicates that a terminal solution is considered to have a high priority (eg for the supplementary service Abbreviated Address and Repeat Last Call).

Annex 1

RELEVANCE AND PRIORITY OF SUPPLEMENTARY SERVICES TO ISDN BEARER SERVICES

Supplementary Services \ Bearer Services	1.1.1 Circuit mode 64 kbit/s unrestricted demand	1.2.1 Circuit mode 64 kbit/s usable for speech transfer	1.3.1 Circuit mode 64 kbit/s usable for 3.1 kHz audio transfer	1.1.2 Circuit mode 64 kbit/s unrestricted permanent	1.3.2 Circuit mode 64 kbit/s usable for 3.1 kHz audio permanent	1.7.2 Circuit mode 1920 kbit/s permanent	Packet mode, PSPDN access Circuit switched, B-channel	Packet mode, PSPDN access Semipermanent switched, B-channel	Packet mode, ISDN VC Circuit switched, B-channel	Packet mode, ISDN VC Permanent switched, B-channel	Packet mode, ISDN VC Packet switched, D-channel
1. ABBREVIATED ADDRESS SERVICES	-	-	-	-	-	-					
1.1 Abbreviated Address	T	T	T								
1.2 Fixed Destination Call	A	A	A								
1.3 Repeat Last Call	T	T	T								
2. ADDRESS INFORMATION SERVICES	-	-	-	-	-	-					
2.1 Direct Dialling In (DDI)	E	E	E								
2.2 Multiple Subscriber Number (MSN)	E	E	E								
2.3 Sub-Addressing (SUB)	E	E	E	A	A	A					
3. ADVICE OF CHARGE SERVICES (AOC)	-	-	-	-	-	-					
3.1 Advice of Charge, Charging Information at Call Setup Time (AOC-S)	E	E	E	A	A	A					
3.2 Advice of Charge, Charging Information during the Call (AOC-D)	E	E	E	A	A	A					
3.3 Advice of Charge, Charging Information at the End of the Call (AOC-E)	E	E	E	A	A	A					
3.4 Provision of Charging Information on Request	E	E	E	A	A	A					
4. CALL BOOKING SERVICES	-	-	-	-	-	-					
4.1 Alarm Call	A	A	A								
4.2 Booked Call	A	A	A								

RELEVANCE AND PRIORITY OF SUPPLEMENTARY SERVICES TO ISDN BEARER SERVICES

Supplementary Services	1.1.1 Circuit mode 64 kbit/s unrestricted demand	1.2.1 Circuit mode 64 kbit/s usable for speech transfer	1.3.1 Circuit mode 64 kbit/s usable for 3.1 kHz audio transfer	1.1.2 Circuit mode 64 kbit/s unrestricted permanent	1.3.2 Circuit mode 64 kbit/s usable for 3.1 kHz audio permanent	1.7.2 Circuit mode 1920 kbit/s permanent	Packet mode, PSPDN access Circuit switched, B-channel	Packet mode, PSPDN access Semipermanent switched, B-channal	Packet mode, ISDN VC Circuit switched, B-channal	Packet mode, ISDN VC Permanent switched, B-channal	Packet mode, ISDN VC Packet switched, D-channal
5. CALL BARRING SERVICES	-	-	-	-	-	-					
5.1 Closed User Group (CUG)	E	E	E								
5.2 Incoming Call Barring (ICB)	E	E	E								
5.3 Outgoing Call Barring (OCB)	E	E	E								
5.4 Security Screening	A	A	A								
5.5 Inhibition of Incomming Forvarded Calls (IIFC)	A	A	A								
6. CALL COMPLETION SERVICES	-	-	-	-	-	-					
6.1 Call Waiting (CW)	E	E	E								
6.2 Completion of Calls to Busy Subscriber (CCBS)	E	E	E								
6.3 Queue Service	A	A	A								
6.4 Completion of Calls on No Reply	A	A	A								
7. CALL REGISTRATION SERVICES	-	-	-	-	-	-					
7.1 Date and Time Call Record	A	A	A								
7.2 Logging of Incoming Calls	A	A	A								
7.3 Malicious Call Identification (MCID)	E	E	E								
8. CHANGED CHARGING SERVICES	-	-	-	-	-	-					
8.1 Freephone (FPH)	E	E	E								
8.2 Reverse Charging (REV)	A	A	A								
8.3 Transfer of Charge	E	E	E								
8.4 Wide Area Service	A	A	A								
8.5 Split Charging	A	A	A								
8.6 Premium Rate	E	E	E								

RELEVANCE AND PRIORITY OF SUPPLEMENTARY SERVICES TO ISDN BEARER SERVICES

Supplementary Services \ Bearer Services	1.1.1 Circuit mode 64 kbit/s unrestricted demand	1.2.1 Circuit mode 64 kbit/s usable for speech transfer	1.3.1 Circuit mode 64 kbit/s usable for 3.1 kHz audio transfer	1.1.2 Circuit mode 64 kbit/s unrestricted permanent	1.3.2 Circuit mode 64 kbit/s usable for 3.1 kHz audio permanent	1.7.2 Circuit mode 1920 kbit/s permanent	Packet mode, PSPDN access Circuit switched, B-channel	Packet mode, PSPDN access Semipermanent switched, B-channel	Packet mode, ISDN VC Circuit switched, B-channel	Packet mode, ISDN VC Permanent switched, B-channel	Packet mode, ISDN VC Packet switched, D-channel
9. DIVERSION SERVICES	-	-	-	-	-	-					
9.1 Call Forwarding Unconditional (CFU)	E	E	E								
9.2 Call Forwarding Busy (CFB)	E	E	E								
9.3 Call Forwarding No Reply (CFNR)	E	E	E								
9.4 Call Deflection (CD)	A	A	A								
9.5 Call Forwarding Unconditional to a service centre (CFU-S)	E	E	E								
9.6 Call Forwarding Busy to a service centre (CFB-S)	A	A	A								
9.7 Call Forwarding No Reply to a service centre (CFNR-S)	A	A	A								
9.8 Selective Call Forwarding Unconditional	A	A	A								
9.9 Selective Call Forwarding Busy	A	A	A								
9.10 Selective Call Forwarding No Reply	A	A	A								
9.11 Sequence Calling	A	A	A								
10. HELP SERVICE	-	-	-	-	-	-					
10.1 Fault Reporting	E	E	E	E	E	E					
10.2 General Deactivation	A	A	A								
10.3 Operator Access to and Control of Supplementary Services	A	A	A								
10.4 Remote Control of Supplementary Service (RC)	A	A	A								

RELEVANCE AND PRIORITY OF SUPPLEMENTARY SERVICES TO ISDN BEARER SERVICES

Supplementary Services \ Bearer Services	1.1.1 Circuit mode 64 kbit/s unrestricted demand	1.2.1 Circuit mode 64 kbit/s usable for speech transfer	1.3.1 Circuit mode 64 kbit/s usable for 3.1 kHz audio transfer	1.1.2 Circuit mode 64 kbit/s unrestricted permanent	1.3.2 Circuit mode 64 kbit/s usable for 3.1 kHz audio permanent	1.7.2 Circuit mode 1920 kbit/s permanent	Packet mode, PSPDN access Circuit switched, B-channel	Packet mode, PSPDN access Semipermanent switched, B-channel	Packet mode, ISDN VC Circuit switched, B-channel	Packet mode, ISDN VC Permanent switched, B-channel	Packet mode, ISDN VC Packet switched, D-channel
11. INFORMATION TRANSFER SERVICES	-	-	-	-	-	-					
11.1 Delivery Confirmation	-	-	-								
11.2 Packet Delivery Confirmation	-	-	-								
11.3 User-to-User Signalling (UUS)	E	E	E	A	A	A					
12. MULTILINE SERVICES	-	-	-	-	-	-					
12.1 Centrex	A	A	A	A	A	A					
12.2 Line Hunting (LH)	E	E	E								
12.3 Private Numbering Plan (PNP)	A	A	A								
12.4 Multilocation Business Group (MBG)											
13. MULTIPARTY CALLS	-	-	-	-	-	-					
13.1 Call Hold (HOLD)	E	E	E								
13.2 Three-Party Service (3PTY)	E	E	E								
13.3 Call Transfer (CT)	E	E	E								
13.4 Conference Call, Add On (CONF)	E	E	E								
13.5 Meet-Me Conference (MMC)	E	E	E								
13.6 Lecture Call	A	A	A								
13.7 Predetermined Conference Call	A	A	A								

RELEVANCE AND PRIORITY OF SUPPLEMENTARY SERVICES TO ISDN BEARER SERVICES

Supplementary Services	1.1.1 Circuit mode 64 kbit/s unrestricted demand	1.2.1 Circuit mode 64 kbit/s usable for speech transfer	1.3.1 Circuit mode 64 kbit/s usable for 3.1 kHz audio transfer	1.1.2 Circuit mode 64 kbit/s unrestricted permanent	1.3.2 Circuit mode 64 kbit/s usable for 3.1 kHz audio permanent	1.7.2 Circuit mode 1920 kbit/s permanent	Packet mode, PSPDN access Circuit switched, B-channel	Packet mode, PSPDN access Semipermanent switched, B-channel	Packet mode, ISDN VC Circuit switched, B-channel	Packet mode, ISDN VC Permanent switched, B-channel	Packet mode, ISDN VC Packet switched, D-channel
14. NUMBER IDENTIFICATION SERVICES	-	-	-	-	-	-					
14.1 Calling Line Identification Presentation (CLIP)	E	E	E	E	E	E					
14.2 Calling Line Identification Restriction (CLIR)	E	E	E	A	A	A					
14.3 Connected Line Identification Presentation (COLP)	A	A	A	A	A	A					
14.4 Connected Line Identification Restriction (COLR)	A	A	A	A	A	A					
15. NUMBERING SERVICES	-	-	-	-	-	-					
15.1 Out of Area Lines	E	E	E								
15.2 Permanent Subscriber Number	A	A	A								
15.3 Universal Access Number	E	E	E								
15.4 Call Distribution											
15.5 Call Volume Distribution											
15.6 User Defined Routing											
15.7 Temporary Location for Outgoing Calls	A	A	A								
15.8 Permanent Circuit Service	A	A	A								
15.9 Permanent Virtual Circuit Cervice	A	A	A								
16. PAYMENT CHANGING SERVICES	-	-	-	-	-	-					
16.1 Credit Card Calling (CRED)	A	A	A								
16.2 Payphone	A	A	A								
16.3 Account Card Calling	A	A	A								

RELEVANCE AND PRIORITY OF SUPPLEMENTARY SERVICES TO ISDN BEARER SERVICES

Supplementary Services	1.1.1 Circuit mode 64 kbit/s unrestricted demand	1.2.1 Circuit mode 64 kbit/s usable for speech transfer	1.3.1 Circuit mode 64 kbit/s usable for 3.1 kHz audio transfer	1.1.2 Circuit mode 64 kbit/s unrestricted permanent	1.3.2 Circuit mode 64 kbit/s usable for 3.1 kHz audio permanent	1.7.2 Circuit mode 1920 kbit/s permanent	Packet mode, PSPDN access Circuit switched, B-channal	Packet mode, PSPDN access Semipermanent switched, B-channal	Packet mode, ISDN VC Circuit switched, B-channal	Packet mode, ISDN VC Permanent switched, B-channal	Packet mode, ISDN VC Packet switched, D-channal
17. PRIORITY SERVICES	-	-	-	-	-	-					
17.1 Priority (PRI)	E	E	E								
17.2 Priority Selection	A	A	A								
17.3 Multi-Level Precedens and Preemption (MLPP)	A	A	A								
18. VARIOUS SERVICES	-	-	-	-	-	-					
18.1 Alarm (Warning)	A	A	A								
18.2 Changing of Service During an Established Call	E	E	E	E	E	E					
18.3 Expediting of a Call in Progress	A	A	A								
18.4 Interception of Calls	A	A	A								
18.5 National Selection and Indication of Throughput Class	A	A	A								
18.6 Terminal Portability (TP)	E	E	E	E	E						
18.7 User Selection and Indication of Throughput Class	E	E	E								
18.8 Call Diversion Override	A	A	A								
18.9 Incall Modification (IM)	A	A	A								
19. OPINION COLLECTING SERVICES											
19.1 Televoting	A	A	A								
19.2 Teledialog Service	A	A	A								
19.3 Mass Calling	A	A	A								

RELEVANCE AND PRIORITY OF SUPPLEMENTARY SERVICES TO TELESERVICES

Annex 2

RELEVANCE AND PRIORITY OF SUPPLEMENTARY SERVICES TO TELESERVICES

Supplementary Services \ Teleservices	Telephony	Teletex	Facsimile	Videotex	Audioconference	Message Handling	Video telephony			
1. ABBREVIATED ADDRESS SERVICES	-	-	-	-	-	-	-			
1.1 Abbreviated Address	T						T			
1.2 Fixed Destination Call	A						A			
1.3 Repeat Last Call	T			T			T			
2. ADDRESS INFORMATION SERVICES	-	-	-	-	-	-	-			
2.1 Direct Dialling In (DDI)	E	E	E	E	E		E			
2.2 Multiple Subscriber Number (MSN)	E	E	E	E	E		E			
2.3 Sub-Addressing (SUB)	E	E	E	E	E		E			
3. ADVICE OF CHARGE SERVICES (AOC)	-	-	-	-	-	-	-			
3.1 Advice of Charge, Charging Information at Call Setup Time (AOC-S)	E	E	E	A	E		E			
3.2 Advice of Charge, Charging Information during the Call (AOC-D)	E	A	A	A	A		E			
3.3 Advice of Charge, Charging Information at the End of the Call (AOC-E)	E	E	E	A	E		E			
3.4 Provision of Charging Information on Request	A									
4. CALL BOOKING SERVICES	-	-	-	-	-	-	-			
4.1 Alarm Call	A			-			A			
4.2 Booked Call	A			-			A			

RELEVANCE AND PRIORITY OF SUPPLEMENTARY SERVICES TO TELESERVICES

Supplementary Services	Telephony	Teletex	Facsimile	Videotex	Audioconference	Message Handling	Video telephony			
5. CALL BARRING SERVICES	-	-	-	-	-	-	-			
5.1 Closed User Group (CUG)	E	A	A	A	E		E			
5.2 Incoming Call Barring (ICB)	T	-	-	A			T			
5.3 Outgoing Call Barring (OCB)	T	-	-	A			T			
5.4 Security Screening	A									
5.5 Inhibition of Incomming Forvarded Calls (IIFC)	A									
6. CALL COMPLETION SERVICES	-	-	-	-	-	-	-			
6.1 Call Waiting (CW)	E	E	E		E		E			
6.2 Completion of Calls to Busy Subscriber (CCBS)	E	A	A	A	E		E			
6.3 Queue Service	E						E			
6.4 Completion of Calls on No Reply	-									
7. CALL REGISTRATION SERVICES	-	-	-	-	-	-	-			
7.1 Date and Time Call Record	A						A			
7.2 Logging of Incoming Calls	A						A			
7.3 Malicious Call Identification (MCID)	E	E	E	A	E		E			
8. CHANGED CHARGING SERVICES	-	-	-	-	-		-			
8.1 Freephone (FPH)	E	E	E	A	E		E			
8.2 Reverse Charging (REV)	A			A			A			
8.3 Transfer of Charge	E						E			
8.4 Wide Area Service	A						A			
8.5 Split Charging	A									
8.6 Premium Rate	E									

RELEVANCE AND PRIORITY OF SUPPLEMENTARY SERVICES TO TELESERVICES

Supplementary Services	Teleservices									
	Telephony	Teletex	Facsimile	Videotex	Audioconference	Message Handling	Video telephony			
9. DIVERSION SERVICES	-	-	-	-	-	-	-			
9.1 Call Forwarding Unconditional (CFU)	E	A	A	A	E		E			
9.2 Call Forwarding Busy (CFB)	E	A	A	A			E			
9.3 Call Forwarding No Reply (CFNR)	E	A	A	A			E			
9.4 Call Deflection (CD)	E	A	A	E			E			
9.5 Call Forwarding Unconditional to a service centre (CFU-S)	E	A	A							
9.6 Call Forwarding Busy to a service centre (CFB-S)	A	A	A							
9.7 Call Forwarding No Reply to a service centre (CFNR-S)	A	A	A							
9.8 Selective Call Forwarding Unconditional	A									
9.9 Selective Call Forwarding Busy	A									
9.10 Selective Forwarding No Reply	A						A			
9.11 Sequence Calling	A						A			
10. HELP SERVICE	-	-	-	-	-	-	-			
10.1 Fault Reporting	E						E			
10.2 General Deactivation	A						A			
10.3 Operator Access to and Control of Supplementary Services	A						A			
10.4 Remote Control of Supplementary Service (RC)	A						A			

RELEVANCE AND PRIORITY OF SUPPLEMENTARY SERVICES TO TELESERVICES

Supplementary Services / Teleservice	Telephony	Teletex	Facsimile	Videotex	Audioconference	Message Handling	Video telephony			
11. INFORMATION TRANSFER SERVICES	-	-	-	-	-	-	-			
11.1 Delivery Confirmtion	-	A	A	-			-			
11.2 Packet Delivery Confirmation	-						-			
11.3 User-to-User Signalling (UUS)	E	E	E	E	E		E			
12. MULTILINE SERVICES	-	-	-	-	-	-	-			
12.1 Centrex	A						A			
12.2 Line Hunting (LH)	E						E			
12.3 Private Numbering Plan (PNP)	A	A	A	A			A			
12.4 Multilocation Business Group (MBG)										
13. MULTIPARTY CALLS	-	-	-	-	-	-	-			
13.1 Call Hold (HOLD)	E						E			
13.2 Three-Party Service (3PTY)	E						E			
13.3 Call Transfer (CT)	A						A			
13.4 Conference Call, Add On (CONF)	E						E			
13.5 Meet-Me Conference (MMC)	E						E			
13.6 Lecture Call	A						A			
13.7 Predetermined Conference Call	A									

RELEVANCE AND PRIORITY OF SUPPLEMENTARY SERVICES TO TELESERVICES

Supplementary Services \ Teleservices	Telephony	Teletex	Facsimile	Videotex	Audioconference	Message Handling	Video telephony			
14. NUMBER IDENTIFICATION SERVICES	-	-	-	-	-	-	-			
14.1 Calling Line Identification Presentation (CLIP)	E	E	E	E	E		E			
14.2 Calling Line Identification Restriction (CLIR)	E	E	E	E	E		E			
14.3 Connected Line Identification Presentation (COLP)	A	E	E	A	E		A			
14.4 Connected Line Identification Restriction (COLR)	A				E		A			
15. NUMBERING SERVICES	-	-	-	-	-	-	-			
15.1 Out of Area Lines	E						A			
15.2 Permanent Subscriber Number	A						A			
15.3 Universal Access Number	E						E			
15.4 Call Distribution	A									
15.5 Call Volume Distribution	A									
15.6 User Defined Routing	A									
15.7 Temporary Location for Outgoing Calls	A									
15.8 Permanent Circuit Service	A									
15.9 Permanent Virtual Circuit Service	A									
16. PAYMENT CHANGING SERVICES	-	-	-	-	-	-	-			
16.1 Credit Card Calling (CRED)	A			A			E			
16.2 Payphone	A						E			
16.3 Account Card Calling	A									

RELEVANCE AND PRIORITY OF SUPPLEMENTARY SERVICES TO TELESERVICES

Supplementary Services / Teleservices	Telephony	Teletex	Facsimile	Videotex	Audioconference	Message Handling	Video telephony			
17. PRIORITY SERVICES	-	-	-	-	-	-	-			
17.1 Priority (PRI)	E						E			
17.2 Priority Selection	A						A			
17.3 Multi-Level Precedens and Preemption (MLPP)	A									
18. VARIOUS SERVICES	-	-	-	-	-	-	-			
18.1 Alarm (Warning)	A						A			
18.2 Changing of Service During an Established Call	E						E			
18.3 Expediting of a Call in Progress	A						A			
18.4 Interception of Calls	A						A			
18.5 National Selection and Indication of Throughput Class	A									
18.6 Terminal Portability (TP)	E			-	E		E			
18.7 User Selection of PAD Parameter Settings	-									
18.8 Call Diversion Override	A									
18.9 Incall Modification (IM)	A									
19. OPINION COLLECTING SERVICES	-	-	-	-	-	-	-			
19.1 Televoting	A									
19.2 Teledialog Service	A									
19.3 Mass Calling	A									