Documentation

HiPath 4000 SIU and DTR Tones

Service Manual

A31003-H3010-S104-2-7620

Communication for the open minded



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1.1 Status

This specification is intended to supplement the HW or LW specification for SIU Type 1. It supplements the latter in respect of the new and additional requirements of Hicom 300 variant V3.1 or higher. The specification likewise applies to new SPX-based SIU or SIUCO implementations such as the SCC for Hicom 80 CM.

In the event of further country adaptations or other requirements, the specification will be amended accordingly.

1.2 General

At startup, the SIU's tone generators are supplied with the relevant parameters for timeslot, frequencies, level, and cadencing. These parameters are selected on a country-specific basis via the country code LKZ = selection of the appropriate file for loading the parameters. The country code is set by AMO.

The following tables contain all the tones generated by the SIU. Tones generated by software switching, such as non-circulating tone sequences, are not listed in these tables (e.g.: FRG negat. acknowledgment tone = 3.5 s busy tone).

At startup, the SIU's dial tone receivers are supplied with the relevant parameters for filter selection, evaluation mode. These parameters are selected on a country-specific basis via the country code LKZ = selection of the appropriate file for loading the parameters. The country code is set by AMO.

The language of the brief announcements is selected using the language code SKZ.

The following tables contain data which is loaded into the SIU.

1.3 Country codes

The AMO-ZAND commands of the tone and receiver initializations listed below apply to Hicom 300 V3.3+ and must be applied to the subsequent versions as appropriate.

1.3.1 Tone and Receiver Initializations

							Α	MO Z	AND				
		1	ONES	3				SII	J Tone	S			GAIN LOAD
		T	ONTB	L				٦	Tones				DMPF LOAD
Coun- try	L	С	P	SIU	SIU C			DTR			SIU ANN	CONFC	GAINC D
	A W	CPT	ΓΟΝ	SIU TO N	SIU			HZE			SIU SPK Z	CONF- HW	DMPF LKZ
	-	RT O TO N1	RT O TO N2	LK Z	LKZ	LK Z	Mod e (4,5)	Typ e (4,5	Mod e (6,7)	Typ e (6,7		LKZ	
ALB													
ALG	Α	2	13	Т	Т	Т	1	1	9	1	3	Т	0
ARG	Α	2	1	0	0	0	1	1	1	2	4	0	0
AUS	Α	2	2	4*	4*	4*	8	1	8	1	2	4	4
BAH	Α	2	2	7	7	7	7	1	7	1	2	7	7
BEL	Α	2	13	3*	3*	3*	1	1	3	3	1,2,3 ,6,B	3	3
BEN													
BGD	Α	2	1	0	0	0	1	1	1	2	2	0	0
BLZ													
BOL	Α	2	2	Q	Q	Q	В	1	В	1	4	Q	Q
BRA	Α	2	2	Q*	Q*	Q*	В	1	В	1	9	Q	Q
BRD	Α	2	1	0*	0*	0*	1	1	1	2	1	0	0
BUL	Α	2	1	0	0	0	1	1	1	2	1	0	0
CHL	Α	2	3	3	3	9	1	1	7	1	4	3	0
CHN	Α	1	1	C*	C*	C*	4	1	4	1	2,C	С	С
COR	Α	2	1	0	0	1	4	1	4	2	4	0	0
CRE	Α	1		J*	J*	J*	4	1	4	2	1,G	J	J
DAN	Α	2	2	H*	H*	0	1	1	1	2	2,7	Н	Н

							Α	MO Z	AND				
		7	ONES	3				SIL	J Tone	s			GAIN LOAD
		T	ONTB	L				٦	Tones				DMPF LOAD
Coun- try	L	С	P	SIU	SIU			DTR			SIU ANN	CONFC	GAINC D
	A W	CPT	ΓON	SIU TO N	SIU			HZE			SIU SPK Z	CONF- HW	DMPF LKZ
		RT O TO N1	RT O TO N2	LK Z	LKZ	LK Z	Mod e (4,5)	Typ e (4,5	Mod e (6,7)	Typ e (6,7		LKZ	
ECU	Α	2	13	3	3	3	1	1	3	3	4	3	0
EGY	Α	2	2	7	7	7	7	1	7	1	2	0	0
ELF	Α	2	13	Α	Α	Α	7	1	Α	1	3	Α	0
EST ETH	Α	2	1	8	8	8	6	1	6	2	2,T	8	8
FIN	Α	2	1	8*	8*	8*	6	1	6	2	2,8	8	8
FRA	Α	2	13	A*	A*	A*	7	1	Α	1	3	Α	Α
GBR	Α	2	2	7*	7*	7*	7	1	7	1	2	7	7
GEO (CIS)	Α	1	1	13	13	13	С	1	С	1	2,H	1	13
GHA	Α	1	1	В	В	С	4	1	4	1	2	В	0
GRI	Α	2	1	R*	R*	J	4	1	4	2	N	0	R
GUA	Α	2	1	R	R	1	4	1	4	2	4	0	0
CIS	Α	2	5	13*	13*	13*	4	1	4	2	2,H	1	13
HGK	Α	10	10	S*	S*	S*	7	1	7	1	2,C	S	S
HON	Α	2	2	3	3	С	4	1	4	1	4	3	0
IDS	Α	2	2	N*	N*	С	4	1	4	1	2,M	N	N
IND	Α	8	8	7	7	11*	5	1	5	1	2	7	0
IRL	Α	2	1	0	0	0	1	1	1	2	2	0	0
IRN	Α	2	1	0	0	0	1	1	1	2	2	0	0
IRQ													
ISL													

							Α	MO Z	AND				
Cour		1	ONES	6				SIL	J Tone	S			GAIN LOAD
		T	ONTB	L				٦	Tones				DMPF LOAD
Coun- try	L	С	P	SIU	SIU C			DTR			SIU ANN	CONFC	GAINC D
_	A W	CP	ГОИ	SIU TO N	SIU			HZE			SIU SPK Z	CONF- HW	DMPF LKZ
		RT O TO N1	RT O TO N2	LK Z	LKZ	LK Z	Mod e (4,5)	Typ e (4,5	Mod e (6,7)	Typ e (6,7		LKZ	
ISR	Α	2	2	15*	15*	15*	5	1	5	1	2	15	7
ITL	Α	3	5	D*	D*	D*	1	1	6	1	Α	D	D
JEM	Α	2	2	7	7	7	7	1	7	1	2	7	7
JOR	Α	2	2	7	7	7	7	1	7	1	2	7	7
JPN	Α	2		18*	18*	18*	5	1	5	1	D	18	0
KAM	Α	1	5	14*	14*	14*	4	1	4	1	3	14	0
KAT	Α	2	2	7	7	7	7	1	7	1	2	7	7
KEN	Α	2	2	4	4	С	4	1	4	1	2	4	0
KOL	Α	2	1	9	9	9	1	1	7	1	4	0	0
KOR	Α	2	2	16*	16*	16*	2	1	2	1	2	16	16
KRO	Α	2	1	R	R	J	4	1	4	2	R	В	0
KUW	Α	2	13	3	3	3	1	1	3	3	2	3	0
LAN													
LBY	Α	2	2	0	0	С	4	1	4	1	2	0	0
LET	Α	2	1	8	8	8	6	1	6	1	2	8	13
LIB	Α	2	13	3	3	3	1	1	3	3	2	3	0
LIT	Α	2	1	8	8	8	6	1	6	1	2	8	13
LUX	Α	2	1	0	0	0	1	1	1	2	3	(0)	L
MAL	Α	2	1	E*	E*	С	4	1	4	1	2,M	Е	Е
MAR	Α	2	13	T*	T*	T*	1	1	9	1	3	Т	Т
MAZ	Α	2	1	R	R	J	4	1	4	2	R	В	0
MEX	Α	1	1	G*	G*	9	1	1	7	1	4	G	J

							Α	MO Z	AND				
Coun-		7	ONES	6				SII	J Tone	S			GAIN LOAD
		T	ONTB	L					Tones				DMPF LOAD
Coun- try	L	С	P	SIU	SIU C			DTR			SIU ANN	CONFC	GAINC D
	W	CPT	ΓON	SIU TO N	SIU			HZE			SIU SPK Z	CONF- HW	DMPF LKZ
	-	RT O TO N1	RT O TO N2	LK Z	LKZ	LK Z	Mod e (4,5)	Typ e (4,5	Mod e (6,7)	Typ e (6,7		LKZ	
MTA													
MYA	Α	2		Q	Q	0	1	1	1	2	2	Q	Q
NDL	Α	2	1	B*	B*	B*	6	1	1	1	6	В	В
NIA	Α	2	13	3	3	3	1	1	3	3	2,3	3	0
NIC	Α	2	2	0	0	С	4	1	4	1	4	0	0
NOR	Α	2	1	8	8	8	6	1	6	1	2,P	8	(8)
NSL													
OES	Α	2	1	1*	1*	1*	4	1	4	2	1	1	1
OMA	Α	2	2	12*	12*	С	4	1	4	1	2	12	0
PAK	Α	2	1	0	0	1	4	1	4	2	2	0	0
PAN	Α	2	2	0	0	С	4	1	4	1	4	0	0
PAR	Α	2	2	0	0	С	4	1	4	1	4	0	0
PHI	Α	2		P*	P*	С	4	1	4	1	2	Р	Р
POL	Α	1	1	F*	F*	В	6	1	1	1	F	F	F
POR	Α	2	1	9*	9*	9*	1	1	7	1	5	9	9
PRU	Α	2	2	3	3	9	1	1	7	1	4	3	0
RSA	Α	1	1	6*	6*	6*	5	1	5	1	2	6	6
RUM	Α	2	1	0	0	0	1	1	1	2	1	0	13
RUS (CIS)	Α	1	1	13*	13*	13*	С	1	С	1	2,H	1	13
SAL	Α	2	2	0	0	С	4	1	4	1	4	0	0
SAR	Α	2	13	3	3	3	1	1	3	3	2	3	0

	TONES							MO Z	AND				
		7	ONES	6				SII	J Tone	S			GAIN LOAD
		T	ONTB	L				٦	Tones				DMPF LOAD
Coun- try	L	С	P	SIU	SIU			DTR			SIU ANN	CONFC	GAINC D
-	A W	CPT	ΓΟΝ	SIU TO N	SIU			HZE			SIU SPK Z	CONF- HW	DMPF LKZ
		RT O TO N1	RT O TO N2	LK Z	LKZ	LK Z	Mod e (4,5)	Typ e (4,5	Mod e (6,7)	Typ e (6,7		LKZ	
SEN	Α	2		Т	Т	Т	1	1	9	1	3	Т	0
SIM	Α	2	2	3	3	С	4	1	4	1	2	3	0
SIN	Α	2		M*	M*	0	1	1	1	2	2,C	М	М
SLO	Α	2	1	R	R	J	4	1	4	2	2,U	В	0
SPA	Α	2	13	5*	5*	5*	8	1	9	1	4	5	5
SRE	Α	1		J*	J*	J*	4	1	4	2	1,0	J	J
SUD	Α	8	3	7	7	1	4	1	4	2	2	7	7
SWD	Α	2	2	U*	U*	2	4	1	4	1	2,S	U	U
SWZ	Α	1	1	2*	2*	2*	4	1	4	1	1	2	2
SYR	Α	2	13	3	3	3	1	1	3	3	2	3	0
TAN	Α	2	2	3	3	С	4	1	4	1	2	В	0
THA	Α	15	15	O*	O*	6	5	1	5	1	2,J	0	0
TRK	Α	1	1	17*	17*	17*	4	1	4	1	V		0
TUN	Α	2	13	Т	Т	Т	1	1	9	1	3	Т	0
UAE	Α	2	2	7	7	7	7	1	7	1	2	7	0
UKR (CIS)	Α	1	5	13	13	13	4	1	4	2	2,H	1	13
UNG	Α	2	2	10*	10*	10*	1	1	1	1	Е	1,10	(0)
URU	Α	2	1	0	0	0	1	1	1	2	4	0	0
USA	μ	10	10	K*	K*	K*	2	1	2	1	2	K	(K)
VEN	Α	2	1	N	N	9	1	1	7	1	2,4	N	0
VIT	Α	2	2	0	0	С	4	1	4	1	2	0	С

							Α	MO Z	AND				
		1	ONES	3				SII	J Tone	S			GAIN LOAD
		T	ONTB	L				-	Tones				DMPF LOAD
Coun- try	try L C ANN								GAINC D				
	W	CPT	ΓON	SIU TO N	SIU			HZE			SIU SPK Z	CONF- HW	DMPF LKZ
	-	RT O TO N1	RT O TO N2	LK Z	LKZ	LK Z	Mod e (4,5)	Typ e (4,5	Mod e (6,7)	Typ e (6,7		LKZ	
WEI (CIS)	Α	1	1	13	13	13	13 4 1 4 2 2,H 1						
ZAI													

The timeslots specified in the tone tables apply to Highway 14 (0EH) or Highway 30 for EC systems (tsl converted to 2 MHz). The switching network input is used as the reference point for the level values (dBm0).

RTO1 is used for testing the 1st and 2nd HZE (dial tone receiver), as well as for loop tests on analog trunks.

RTO2 is used for testing the 3rd and 4th HZE if they are of a different type from the 1st and 2nd HZE.

RTO2 is also used in some cases to test busy tone detection.

Country codes marked * are original countries for which the tone plan was created. The other LKZ codes are countries which share existing tone plans.



NB: Please do not confuse the 0 (zero) with the O (Oscar)!

1.3.2 CP-Tone-Tables

CP-Tone 0 - 8

Country CPTONE	BRD 0	OES 1	SWZ 2	BEL 3	AUS 4	SPA 5	RSA 6	GBR 7	FIN 8
KEINTON / NOTONE	00	00	00	00	00	00	00	00	00
WTONINT / INTDTN	01	01	01	01	01	01	01	01	01
WTONEXT / EXTDTN	02	02	01	02	02	02	02	02	02
SONDWTON / SPEC	03	03	03	03	03	03	03	03	03
FREITON / RNGBK	04	04	04	04	04	04	04	04	04
EFREITON / FRNG- BK	02	02	01	02	13	02	02	04	02
BTON / BUSY	05	05	05	05	05	05	05	05	05
AFSTON / OVRTN	06	06	06	06	06	06	06	06	06
ANKLTON / CAMP	07	07	07	07	07	07	07	22	06
DRUFTON / DATA	09	09	09	02	09	09	09	01	09
BITTEWAR / HOLD- LINE	16	16	16	16	16	16	16	16	16
NICHTERR / NOTREACH	17	17	17	17	17	17	17	17	17
NIMO / NOPO	18	18	18	18	18	18	18	18	18
NIBER / NOTALWD	19	19	19	19	19	19	19	19	19
ZZTNIMO / IMPOS- SFM	20	20	20	20	20	20	20	20	20
MUSIC / MOH	22	22	22	22	22	22	22	22	22
QTONNEG / NACK	05 ¹	05	05	05	05	05	05	14	05
QTONPOS / PACK	02 ²	02	01	10	02	02	02	10	02
VOICEMAL / VOICE- MAL	00	00	00	00	00	00	00	00	00
TESTTON / TESTTONE	25	25	25	25	25	25	25	25	25
NACHRILV / MWI	21	21	21	21	21	21	21	21	21
GASSBES / CONG	05	05	05	11	05	05	11	11	05

Country	BRD	OES	SWZ	BEL	AUS	SPA	RSA	GBR	FIN
CPTONE	0	1	2	3	4	5	6	7	8
NUTON / NUTONE	80	80	80	80	80	80	80	80	80
\$QUEUES	00	00	00	00	00	00	00	00	00
\$QUEUEL	00	00	00	00	00	00	00	00	00
ROUTEADV	02	02	01	02	02	02	02	02	02
LCRET / LCRET	26	26	26	26	26	26	26	26	26
RECALL	01	01	01	01	01	01	01	01	01
\$OVRBUSY	00	00	00	00	00	00	00	00	00
\$OVRINJ	00	00	00	00	00	00	00	00	00
SPECRING	04	04	04	04	04	04	04	04	04
\$CALLWAIT	00	00	00	00	00	00	00	00	00
\$CAMPINV	00	00	00	00	00	00	00	00	00
\$CAMPREC	00	00	00	00	00	00	00	00	00
\$LDNCALL	00	00	00	00	00	00	00	00	00
\$OPERATOR	00	00	00	00	00	00	00	00	00
\$NOANS	00	00	00	00	00	00	00	00	00
\$HOLDREC	00	00	00	00	00	00	00	00	00
KONFTON / CONFTN	06	06	06	06	06	06	06	24	06
PRUEFTON / TEST	00	00	01	00	00	00	01	00	00
WTONEXT2 / EXTDTN2	02	02	01	13	13	13	02	02	02
BTLNAUFG / BONHK	05	05	05	05	05	05	05	05	05
WAHLVERZ / NODI- AL	05	05	05	05	05	05	05	05	05
WARTTON / HOLD	00	00	00	00	00	00	00	00	00
AUFMERK / ALERT	07	07	07	07	07	07	07	06	06
RUECKANK / CBKA- LERT	04	04	04	04	04	04	04	04	04
AFSAUTO / OVR	06	06	06	06	06	06	06	06	06
AFSVORW / OVR- WARN	00	00	00	00	00	00	00	24	00
RTOTON / RTOTONE	02	02	01	02	02	02	01	02	02

Country	BRD	OES	SWZ	BEL	AUS	SPA	RSA	GBR	FIN
CPTONE	0	1	2	3	4	5	6	7	8
AUFVERZ / REOR- DER	05	05	05	05	05	05	05	11	05
ORTANS / LOCANN	00	00	00	00	00	00	00	00	00
ATONKONF / KN- CONF	07	07	07	07	07	07	07	24	24
ARSTON / DND	04	04	04	04	04	04	04	05	04
QTONPMW / PCK- WD	02	02	01	10	02	02	02	03	02
ZIPTONE / ZIPTONE	02	02	01	02	02	02	01	08	02
\$PHONEMAIL MW TONE	00	00	00	00	00	00	00	00	00
AWVPL / ANNICPT	16	16	16	16	16	16	16	16	16
\$TONART_NULL	00	00	00	00	00	00	00	00	00
RTOTON1 / RTOTON1	02	02	01	02	02	02	01	02	02
RTOTON2 / RTOTON2	01	01	01	13	02	13	01	02	01
EANKLTON / FCAMP	07	07	07	07	07	07	07	08	06
TRENNTON / DISC- TONE	08	80	08	80	80	80	80	80	80
MAUFTON / CMAL- TONE	02	02	01	02	02	02	01	02	02
WARTEXT / HOLD- EXT	16	16	16	16	16	16	16	16	16
WARTINT / HOLDINT	22	22	22	22	22	22	22	22	22
WARTSA / HOLD- UNT	04	04	04	04	04	04	04	04	04
WARTPSE / HOLD- CCS	04	04	04	04	04	04	04	04	04
WARTH1 / HOLDH1	16	16	16	16	16	16	16	16	16
WARTH2 / HOLDH2	22	22	22	22	22	22	22	22	22
\$TDS TEST SI- LENCE	00	00	00	00	00	00	00	00	00
\$TDS TEST 1004HZ	00	00	00	00	00	00	00	00	00

Country	BRD	OES	SWZ	BEL	AUS	SPA	RSA	GBR	FIN
CPTONE	0	1	2	3	4	5	6	7	8
SAAO / HUNTGRUP	04	04	04	04	04	04	04	04	04
NAWA / POSTDIAL	01	01	01	01	01	01	01	01	01
PSMABSEN/ CC- MABSEN	05	05	05	05	05	05	05	05	05
\$BUSY WITH DIAL TONE	00	00	00	00	00	00	00	00	00
\$DEVICE LOCAL TONE	00	00	00	00	00	00	00	00	00
\$IDLE CODE	00	00	00	00	00	00	00	00	00
HEULTON / HOWL- TONE	00	00	00	00	00	00	00	00	00
\$DTMFTON	00	00	00	00	00	00	00	00	00
\$DTMF_SUPPRESSION	00	00	00	00	00	00	00	00	00
ROUTINGTON	00	00	00	00	00	00	00	00	00
PROVIDER_WARTE TON	00	00	00	00	00	00	00	00	00
OFF_HOOK_RECAL L	00	00	00	00	00	00	00	00	00
REQUEST_DIAL_TO NE	00	00	00	00	00	00	00	00	00
PAUSED_DIAL_TON E	02	02	01	02	02	02	02	02	02
RESERVE_85									

(\$) Not used today

CP-Tone 9 and A - H

Country	POR	FKR	NDL	CHN	ITL	MAL	POL	MEX	DAN
CPTONE	9	Α	В	С	D	E	F	G	Н
KEINTON / NOTONE	00	00	00	00	00	00	00	00	00
WTONINT / INTDTN	01	01	01	01	01	01	01	01	01

Tone is switched off by CP Software after 3.5 seconds
Ton wird durch die CP Software nach 3.5 Sekunden abgeschalte

Country	POR 9	FKR A	NDL B	CHN C	ITL D	MAL E	POL F	MEX G	DAN H
WTONEXT / EXTDTN	02	02	02	01	02	02	01	01	02
SONDWTON / SPEC	03	03	03	03	03	03	03	03	03
FREITON / RNGBK	04	04	04	04	04	04	04	04	04
EFREITON / FRNG- BK	02	02	01	15	03	01	01	01	02
BTON / BUSY	05	05	05	05	05	05	05	05	05
AFSTON / OVRTN	06	06	06	06	06	06	06	06	06
ANKLTON / CAMP	07	07	07	07	07	22	07	07	07
DRUFTON / DATA	09	02	09	01	03	09	01	09	01
BITTEWAR / HOLD- LINE	16	16	16	16	16	16	16	16	16
NICHTERR / NOTREACH	17	17	17	17	17	17	17	17	17
NIMO / NOPO	18	18	18	18	18	18	18	18	18
NIBER / NOTALWD	19	19	19	19	19	19	19	19	19
ZZTNIMO / IMPOS- SFM	20	20	20	20	20	20	20	20	20
MUSIC / MOH	22	22	22	22	22	22	22	22	22
QTONNEG / NACK	05	05	05	05	23	14	05	05	05
QTONPOS / PACK	02	02	01	01	10	10	01	01	01
VOICEMAL / VOICE- MAL	00	00	00	00	00	00	00	00	00
TESTTON / TESTTONE	25	25	25	25	25	25	25	25	25
NACHRILV / MWI	21	21	21	21	21	21	21	21	21
GASSBES / CONG	05	05	11	11	11	11	05	05	05
NUTON / NUTONE	80	05	08	08	23	08	08	08	05
\$QUEUES	00	00	00	00	00	00	00	00	00
\$QUEUEL	00	00	00	00	00	00	00	00	00
ROUTEADV	02	02	02	01	02	02	01	01	02
LCRET / LCRET	26	26	26	26	26	26	26	26	26
RECALL	01	01	01	01	01	01	01	01	01

Country CPTONE	POR 9	FKR A	NDL B	CHN C	ITL D	MAL E	POL F	MEX G	DAN H
							_		
\$OVRBUSY	00	00	00	00	00	00	00	00	00
\$OVRINJ	00	00	00	00	00	00	00	00	00
SPECRING	04	04	04	04	04	04	04	04	04
\$CALLWAIT	00	00	00	00	00	00	00	00	00
\$CAMPINV	00	00	00	00	00	00	00	00	00
\$CAMPREC	00	00	00	00	00	00	00	00	00
\$LDNCALL	00	00	00	00	00	00	00	00	00
\$OPERATOR	00	00	00	00	00	00	00	00	00
\$NOANS	00	00	00	00	00	00	00	00	00
\$HOLDREC	00	00	00	00	00	00	00	00	00
KONFTON / CONFTN	06	06	06	12	12	08	00	06	06
PRUEFTON / TEST	00	15	00	00	00	00	00	00	00
WTONEXT2 / EXTDTN2	02	13	02	00	02	02	13	02	02
BTLNAUFG / BONHK	05	05	05	05	23	05	05	05	05
WAHLVERZ / NODI- AL	05	05	05	05	23	05	05	05	05
WARTTON / HOLD	00	00	00	00	00	00	00	00	00
AUFMERK / ALERT	07	07	07	07	07	06	07	07	07
RUECKANK / CBKA- LERT	04	04	04	04	04	04	04	04	04
AFSAUTO / OVR	06	06	06	06	06	06	06	06	06
AFSVORW / OVR- WARN	00	00	00	00	00	24	00	00	00
RTOTON / RTOTONE	02	02	02	01	01	02	01	02	02
AUFVERZ / REOR- DER	05	05	05	05	23	11	05	05	05
ORTANS / LOCANN	00	00	00	00	00	00	00	00	00
ATONKONF / KN- CONF	07	07	07	07	07	24	00	07	07
ARSTON / DND	04	04	04	04	04	05	04	04	04

Country CPTONE	POR 9	FKR A	NDL B	CHN C	ITL D	MAL E	POL F	MEX G	DAN H
QTONPMW / PCK- WD	02	02	01	01	10	10	01	01	02
ZIPTONE / ZIPTONE	02	02	01	01	03	02	01	01	02
\$PHONEMAIL MW TONE	00	00	00	00	00	00	00	00	00
AWVPL / ANNICPT	16	16	16	16	16	16	16	16	16
\$TONART_NULL	00	00	00	00	00	00	00	00	00
RTOTON1 / RTOTON1	02	02	02	01	01	02	01	01	00
RTOTON2 / RTOTON2	02	13	01	01	03	01	01	01	00
EANKLTON / FCAMP	07	02	07	07	07	07	07	07	07
TRENNTON / DISC- TONE	80	05	80	08	05	08	08	80	08
MAUFTON / CMAL- TONE	02	01	02	01	01	02	02	02	02
WARTEXT / HOLD- EXT	16	16	16	16	16	16	16	16	16
WARTINT / HOLDINT	22	22	22	22	22	22	22	22	22
WARTSA / HOLD- UNT	04	04	04	04	04	04	04	04	04
WARTPSE / HOLD- CCS	04	04	04	04	04	04	04	04	04
WARTH1 / HOLDH1	16	16	16	16	16	16	16	16	16
WARTH2 / HOLDH2	22	22	22	22	22	22	22	22	22
\$TDS TEST SI- LENCE	00	00	00	00	00	00	00	00	00
\$TDS TEST 1004HZ	00	00	00	00	00	00	00	00	00
SAAO / HUNTGRUP	04	04	04	04	04	04	04	04	04
NAWA / POSTDIAL	01	01	01	01	01	01	01	01	01
PSMABSEN/ CC- MABSEN	05	05	05	05	05	05	05	05	05
\$BUSY WITH DIAL TONE	00	00	00	00	00	00	00	00	00

Country CPTONE	POR 9	FKR A	NDL B	CHN C	ITL D	MAL E	POL F	MEX G	DAN H
\$DEVICE LOCAL TONE	00	00	00	00	00	00	00	00	00
\$IDLE CODE	00	00	00	00	00	00	00	00	00
HEULTON /HOWL- TONE	00	00	00	00	00	00	00	00	00
\$DTMFTON	00	00	00	00	00	00	00	00	00
\$DTMF_SUPPRESSION	00	00	00	00	00	00	00	00	00
ROUTINGTON	00	23	00	00	00	00	00	00	00
PROVIDER_WARTE TON	00	00	00	00	00	00	00	00	00
OFF_HOOK_RECAL L	00	00	00	00	00	00	00	00	00
REQUEST_DIAL_TO NE	00	00	00	00	00	00	00	00	00
PAUSED_DIAL_TON E	02	02	02	01	02	02	01	01	02
RESERVE_85									

CP-Tone I - Q

Country	ARG	CRE	USA	LUX	SIN	IDS	THA	PHI	BRA
CPTONE	I	J	K	L	M	N	0	Р	Q
KEINTON / NOTONE	00	00	00	00	00	00	00	00	00
WTONINT / INTDTN	00	01	01	00	01	01	01	01	01
WTONEXT / EXTDTN	00	02	01	00	02	02	02	02	02
SONDWTON / SPEC	00	03	03	00	03	03	03	03	03
FREITON / RNGBK	00	04	08	00	04	04	04	04	04
EFREITON / FRNG- BK	00	01	08	00	15	02	15	03	02
BTON / BUSY	00	05	05	00	05	05	05	05	05
AFSTON / OVRTN	00	06	10	00	06	06	06	06	06
ANKLTON / CAMP	00	07	13	00	06	06	06	06	07

Country CPTONE	ARG I	CRE J	USA K	LUX L	SIN M	IDS N	THA O	PHI P	BRA Q
DRUFTON / DATA	00	01	04	00	01	01	01	01	09
BITTEWAR / HOLD- LINE	00	16	00	00	16	16	16	16	16
NICHTERR / NOTREACH	00	17	09	00	17	17	17	17	17
NIMO / NOPO	00	18	09	00	18	18	18	18	18
NIBER / NOTALWD	00	19	14	00	19	19	19	19	19
ZZTNIMO / IMPOS- SFM	00	20	09	00	20	20	20	20	20
MUSIC / MOH	00	22	00	00	22	22	22	22	22
QTONNEG / NACK	00	05	09	00	05	14	05	14	05
QTONPOS / PACK	00	01	01	00	01	10	01	10	02
VOICEMAL / VOICE- MAL	00	00	00	00	00	00	00	00	00
TESTTON / TESTTONE	00	25	25	00	25	25	25	25	25
NACHRILV / MWI	00	21	01	00	21	21	21	21	21
GASSBES / CONG	00	11	05	00	11	11	11	11	05
NUTON / NUTONE	00	80	09	00	08	08	08	08	08
\$QUEUES	00	00	07	00	00	00	00	00	00
\$QUEUEL	00	00	07	00	00	00	00	00	00
ROUTEADV	00	02	01	00	02	02	02	02	02
LCRET / LCRET	00	26	10	00	26	26	26	26	26
RECALL	00	01	01	00	01	01	01	01	01
\$OVRBUSY	00	00	10	00	00	00	00	00	00
\$OVRINJ	00	00	12	00	00	00	00	00	00
SPECRING	00	04	13	00	04	04	04	040	04
\$CALLWAIT	00	00	10	00	00	00	00	00	00
\$CAMPINV	00	00	09	00	00	00	00	00	00
\$CAMPREC	00	00	10	00	00	00	00	00	00
\$LDNCALL	00	00	02	00	00	00	00	00	00
\$OPERATOR	00	00	10	00	00	00	00	00	00

Country CPTONE	ARG I	CRE J	USA K	LUX L	SIN M	IDS N	THA O	PHI P	BRA Q
\$NOANS	00	00	00	00	00	00	00	00	00
\$HOLDREC	00	00	10	00	00	00	00	00	00
KONFTON / CONFTN	00	06	10	00	06	06	06	06	06
PRUEFTON / TEST	00	00	15	00	00	00	00	00	00
WTONEXT2 / EXTDTN2	00	02	01	00	02	02	02	02	02
BTLNAUFG / BONHK	00	05	05	00	05	05	05	05	05
WAHLVERZ / NODI- AL	00	05	05	00	05	05	05	05	05
WARTTON / HOLD	00	00	00	00	00	00	00	00	00
AUFMERK / ALERT	00	07	00	00	06	06	06	06	07
RUECKANK / CBKA- LERT	00	04	00	00	04	04	04	04	04
AFSAUTO / OVR	00	06	00	00	06	06	06	06	06
AFSVORW / OVR- WARN	00	00	00	00	00	00	00	00	00
RTOTON / RTOTONE	00	02	00	00	02	02	02	02	02
AUFVERZ / REOR- DER	00	05	05	00	05	05	05	05	05
ORTANS / LOCANN	00	00	00	00	00	00	00	00	00
ATONKONF / KN- CONF	00	07	00	00	06	06	06	06	07
ARSTON / DND	00	04	08	00	04	04	04	04	04
QTONPMW / PCK- WD	00	01	01	00	01	10	01	10	02
ZIPTONE / ZIPTONE	02	01	02	03	02	01	01	02	02
\$PHONEMAIL MW TONE	00	00	11	00	00	00	00	00	00
AWVPL / ANNICPT	00	16	00	00	16	16	16	16	16
\$TONART_NULL	00	00	00	00	00	00	00	00	00
RTOTON1 / RTOTON1	00	00	10	00	02	02	02	02	02

RTOTON2 / RTOTON2 / RTOTON2 00	Country	ARG	CRE	USA	LUX	SIN	IDS	THA	PHI	BRA
RTOTON2	CPTONE	I	J	K	L	M	N	0	Р	Q
TRENNTON / DISC- TONE MAUFTON / CMAL- TONE MAUFTEXT / HOLD- EXT WARTINT / HOLDINT 00 01 16 00 00 16 16 16 16 16 16 EXT WARTINT / HOLDINT 00 02 02 02 02 02 WARTSA / HOLD- UNT WARTPSE / HOLD- CCS WARTSTS / HOLD- CCS WARTH1 / HOLDH1 00 16 00 00 16 16 16 16 16 16 WARTH1 / HOLDH1 00 16 00 00 16 16 16 16 16 16 WARTH1 / HOLDH2 00 22 00 00 02 22 22 22 22 WARTS TS TSI- LENCE \$TDS TEST SI- LENCE \$TDS TEST 1004HZ 00 00 15 00 00 00 00 00 SAAO / HUNTGRUP 00 04 01 00 04 04 04 04 04 NAWA / POSTDIAL 00 01 01 01 00 01 01 01 01 01 PSMABSEN / C- MABSEN	RTOTON2 / RTOTON2	00	13	05	00	01	01	01	01	02
TONE MAUFTON / CMAL- TONE MAUFTON / CMAL- TONE WARTEXT / HOLD- EXT WARTINT / HOLDINT 00	EANKLTON / FCAMP	00	07	07	00	07	07	07	02	07
TONE WARTEXT / HOLD- EXT WARTINT / HOLDINT 00	TRENNTON / DISC- TONE	00	08	09	00	08	08	08	08	08
EXT WARTINT / HOLDINT	MAUFTON / CMAL- TONE	00	01	01	00	02	02	02	02	02
WARTSA / HOLD-UNT WARTPSE / HOLD-CCS WARTH1 / HOLDH1 00 16 00 00 16 16 16 16 16 16 WARTH2 / HOLDH2 00 22 00 00 22 22 22 22 22 \$TDS TEST SI-LENCE \$TDS TEST 1004HZ 00 00 15 00 00 00 00 00 00 \$AAO / HUNTGRUP 00 04 01 00 01 01 01 01 01 01 PSMABSEN / CC-MABSEN / CC-MABSEN \$BUSY WITH DIAL 00 00 00 00 00 00 00 00 00 \$DEVICE LOCAL 00 00 00 00 00 00 00 00 00 \$DEVICE LOCAL 00 00 00 00 00 00 00 00 00 \$DEVICE LOCAL 00 00 00 00 00 00 00 00 00 #### TONE #### TOST TEST 1004HZ 00 00 00 00 00 00 00 00 #### TONE #### TOST TEST 1004HZ 00 00 00 00 00 00 00 00 00 #### TOST TEST 1004HZ 00 01 01 01 01 01 01 01 01 01 #### TOST TEST 1004HZ 00 00 00 00 00 00 00 00 00 #### TOST TEST 1004HZ 00 00 00 00 00 00 00 00 00 00 #### TOST TEST 1004HZ 00 00 00 00 00 00 00 00 00 00 #### TOST TEST 1004HZ 00 00 00 00 00 00 00 00 00 00 #### TOST TEST 1004HZ 00 00 00 00 00 00 00 00 00 00 00 00 00	WARTEXT / HOLD- EXT	00	16	00	00	16	16	16	16	16
UNT WARTPSE / HOLD- CCS WARTH1 / HOLDH1 00 16 00 00 16 16 16 16 16 16 WARTH2 / HOLDH2 00 22 00 00 22 22 22 22 22 \$TDS TEST SI- LENCE \$TDS TEST 1004HZ 00 00 15 00 00 00 00 00 00 SAAO / HUNTGRUP 00 04 01 00 04 04 04 04 04 NAWA / POSTDIAL 00 01 01 01 00 01 01 01 01 01 PSMABSEN CC- MABSEN \$BUSY WITH DIAL 00 00 05 00 00 00 00 00 \$DEVICE LOCAL 00 00 05 00 00 00 00 00 \$DEVICE LOCAL 00 00 00 00 00 00 00 00 \$DEVICE LOCAL 00 00 00 00 00 00 00 00 \$DEVICE LOCAL 00 00 00 00 00 00 00 00 TONE \$DEVICE LOCAL 00 00 00 00 00 00 00 00 00 TONE \$DITMF SUPPRESSI 00 00 00 00 00 00 00 00 00 00 \$DITMF SUPPRESSI 00 00 00 00 00 00 00 00 00 00 \$DITMF SUPPRESSI 00 00 00 00 00 00 00 00 00 00 \$DITMF SUPPRESSI 00 00 00 00 00 00 00 00 00 00 00 00 00	WARTINT / HOLDINT	00	22	00	00	22	22	22	22	22
CCS WARTH1 / HOLDH1 00 16 00 00 16 12 22 22	WARTSA / HOLD- UNT	00	04	08	00	04	04	04	04	04
WARTH2 / HOLDH2	WARTPSE / HOLD- CCS	00	04	00	00	04	04	04	04	04
\$TDS TEST SI- LENCE \$TDS TEST 1004HZ 00 00 15 00 00 00 00 00 00 \$AAO / HUNTGRUP 00 04 01 00 04 04 04 04 NAWA / POSTDIAL 00 01 01 01 00 01 01 01 01 PSMABSEN/ CC- MABSEN \$BUSY WITH DIAL 00 05 00 00 00 00 00 00 \$DEVICE LOCAL 00 00 00 00 00 00 00 00 TONE \$IDLE CODE 00 00 00 00 00 00 00 00 TONE \$DTMF_SUPPRESSI 00 00 00 00 00 00 00 00 \$DTMF_SUPPRESSI 00 00 00 00 00 00 00 00 \$DTMF_SUPPRESSI 00 00 00 00 00 00 00 00 00 \$DTMF_SUPPRESSI 00 00 00 00 00 00 00 00 00 \$DTMF_SUPPRESSI 00 00 00 00 00 00 00 00 00 00	WARTH1 / HOLDH1	00	16	00	00	16	16	16	16	16
\$TDS TEST 1004HZ	WARTH2 / HOLDH2	00	22	00	00	22	22	22	22	22
SAAO / HUNTGRUP 00 04 01 00 04 01 01 01 01 01 01 01 01 01 01 01 01 01 01 00	\$TDS TEST SI- LENCE	00	00	00	00	00	00	00	00	00
NAWA / POSTDIAL 00 01 05 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	\$TDS TEST 1004HZ	00	00	15	00	00	00	00	00	00
PSMABSEN/ CC- MABSEN \$BUSY WITH DIAL TONE \$DEVICE LOCAL TONE \$IDLE CODE O0 O0 O0 O0 O0 O0 O0 O0 O0 O	SAAO / HUNTGRUP	00	04	01	00	04	04	04	04	04
MABSEN SBUSY WITH DIAL TONE 00 05 00 0	NAWA / POSTDIAL	00	01	01	00	01	01	01	01	01
TONE 00 0	PSMABSEN/ CC- MABSEN	00	05	00	00	05	05	05	05	05
TONE 00 0	\$BUSY WITH DIAL TONE	00	00	05	00	00	00	00	00	00
HEULTON /HOWL- TONE 00 <td>\$DEVICE LOCAL TONE</td> <td>00</td> <td>00</td> <td>00</td> <td>00</td> <td>00</td> <td>00</td> <td>00</td> <td>00</td> <td>00</td>	\$DEVICE LOCAL TONE	00	00	00	00	00	00	00	00	00
TONE 00 0	\$IDLE CODE	00	00	00	00	00	00	00	00	00
\$DTMF_SUPPRESSI 00 00 00 00 00 00 00 00 00 00 00	HEULTON /HOWL- TONE	00	00	00	00	00	00	00	00	00
ON	\$DTMFTON	00	00	00	00	00	00	00	00	00
ROUTINGTON 00 00 00 00 00 00 00 00	\$DTMF_SUPPRESSI ON	00	00	00	00	00	00	00	00	00
	ROUTINGTON	00	00	00	00	00	00	00	00	00

Country CPTONE	ARG I	CRE J	USA K	LUX L	SIN M	IDS N	THA O	PHI P	BRA Q
PROVIDER_WARTE TON	00	00	00	00	00	00	00	00	00
OFF_HOOK_RECAL L	00	00	00	00	00	00	00	00	00
REQUEST_DIAL_TO NE	00	00	01	00	00	00	00	00	00
PAUSED_DIAL_TON E	01	01	01	01	01	01	01	01	01
RESERVE_85									

CP-Tone R - W and 10, 12 - 15

Country CPTONE	GRI R	HKG S	MAR T	SWD U	A-Law V	U-Law W	UNG 10	OMA 12	GUS 13	KAM 14	ISR 15
KEINTON / NOTONE	00	00	00	00	00	00	00	00	00	00	00
WTONINT / INTDTN	01	01	01	02	01	01	02	01	01	01	01
WTONEXT / EXTDTN	02	02	01	02	01	01	02	02	01	02	02
SONDWTON / SPEC	03	03	03	03	03	03	03	03	03	03	01
FREITON / RNGBK	04	04	04	04	08	08	04	04	04	04	04
EFREITON / FRNG- BK	02	15	02	02	08	80	02	00	01	01	02
BTON / BUSY	05	05	05	05	05	05	05	05	05	05	05
AFSTON /OVRTN	06	06	06	06	10	10	06	06	06	06	06
ANKLTON / CAMP	07	07	07	06	13	13	07	06	07	07	06
DRUFTON / DATA	09	00	00	00	04	04	00	01	01	09	01
BITTEWAR / HOLD- LINE	16	16	06	16	16	16	16	16	16	16	16
NICHTERR / NOTREACH	17	17	16	17	05	05	17	17	17	17	17
NIMO / NOPO	18	18	17	18	05	05	18	18	18	18	18
NIBER / NOTALWD	19	19	18	19	14	14	19	19	19	19	19
ZZTNIMO / IMPOS- SFM	20	20	19	20	05	05	20	20	20	20	20

Country CPTONE	GRI R	HKG S	MAR T	SWD U	A-Law V	U-Law W	UNG 10	OMA 12	GUS 13	KAM 14	ISR 15
MUSIC / MOH	22	22	22	22	22	22	22	22	22	22	22
QTONNEG / NACK	05	05	05	05	14	14	05	05	05	05	05
QTONPOS / PACK	02	10	10	02	01	01	02	01	01	01	10
VOICEMAL / VOICE- MAL	00	00	20	00	00	00	00	00	00	00	00
TESTTON / TESTTONE	25	25	25	25	25	25	25	25	25	13	15
NACHRILV / MWI	21	21	00	21	21	21	21	13	21	21	21
GASSBES / CONG	05	11	05	05	05	05	05	11	11	11	11
NUTON / NUTONE	80	08	08	08	05	05	08	08	08	08	80
\$QUEUES	00	00	00	00	00	00	00	00	00	00	00
\$QUEUEL	00	00	00	00	00	00	00	00	00	00	00
ROUTEADV	02	02	01	02	01	01	02	02	01	02	02
LCRET / LCRET	26	26	07	00	00	00	00	26	26	26	26
RECALL	01	01	01	02	01	01	02	01	01	01	01
\$OVRBUSY	00	00	00	00	10	10	00	00	00	00	00
\$OVRINJ	00	00	00	00	12	12	00	00	00	00	00
SPECRING	04	04	04	04	13	13	04	04	04	04	04
\$CALLWAIT	00	00	00	00	10	10	00	00	00	00	00
\$CAMPINV	00	00	00	00	00	00	00	00	00	00	00
\$CAMPREC	00	00	00	00	10	10	10	00	00	00	00
\$LDNCALL	00	00	00	00	01	01	00	00	00	00	00
\$OPERATOR	00	00	00	00	10	10	00	00	00	00	00
\$NOANS	00	00	00	00	00	00	00	00	00	00	00
\$HOLDREC	00	00	00	00	10	10	00	00	00	00	00
KONFTON / CONFTN	06	06	06	06	10	10	07	06	06	06	06
PRUEFTON / TEST	00	00	15	02	15	15	15	00	01	00	15
WTONEXT2 / EXTDTN2	02	02	13	02	01	01	02	02	01	02	02
BTLNAUFG / BONHK	05	05	05	05	05	05	05	05	05	05	05
WAHLVERZ / NODI- AL	05	05	05	05	05	05	05	05	05	05	05

Country	GRI R	HKG S	MAR	SWD	A-Law V	U-Law W	UNG 10	OMA 12	GUS 13	KAM 14	ISR 15
CPTONE	n	3	ı	U	V	VV	10	12	13	14	
WARTTON / HOLD	00	00	00	00	00	00	00	00	09	00	00
AUFMERK / ALERT	07	07	00	06	10	10	07	06	06	07	06
RUECKANK / CBKA- LERT	04	04	06	04	04	04	04	04	01	04	04
AFSAUTO / OVR	06	06	04	06	06	06	06	06	06	06	06
AFSVORW / OVR- WARN	00	00	06	00	00	00	00	00	00	00	00
RTOTON / RTOTONE	02	02	02	02	15	15	15	01	01	01	02
AUFVERZ / REOR- DER	05	05	02	05	09	09	05	05	00	05	05
ORTANS / LOCANN	00	00	21	00	00	00	00	00	00	00	00
ATONKONF / KN- CONF	07	07	05	06	06	06	07	06	06	07	06
ARSTON / DND	04	04	07	04	08	08	04	04	01	04	04
QTONPMW / PCK- WD	02	10	04	04	01	01	02	01	01	04	01
ZIPTONE / ZIPTONE	03	01	02	02	01	01	02	02	01	01	02
\$PHONEMAIL MW TONE	00	00	00	00	11	11	00	00	00	00	00
AWVPL / ANNICPT	16	16	00	16	16	16	16	00	00	00	00
\$TONART_NULL	00	00	00	00	00	00	00	00	00	00	00
RTOTON1 / RTOTON1	02	02	00	02	10	10	00	02	01	01	02
RTOTON2 / RTOTON2	01	01	13	02	01	01	00	02	05	05	15
EANKLTON / FCAMP	07	07	22	07	10	10	07	06	06	07	06
TRENNTON / DISC- TONE	80	07	01	08	09	09	08	06	08	80	08
MAUFTON / CMAL- TONE	02	01	08	02	01	01	06	08	01	06	02
WARTEXT / HOLD- EXT	16	16	16	16	16	16	11	11	16	16	16
WARTINT / HOLDINT	22	22	16	22	22	22	22	22	22	22	22

Country	GRI R	HKG S	MAR T	SWD U	A-Law V	U-Law W	UNG 10	OMA 12	GUS 13	KAM 14	ISR 15
WARTSA / HOLD- UNT	04	04	22	04	08	08	04	04	04	04	04
WARTPSE / HOLD- CCS	04	04	04	04	04	04	04	04	04	04	04
WARTH1 / HOLDH1	16	16	04	16	04	04	16	16	16	16	16
WARTH2 / HOLDH2	22	22	16	22	22	22	22	22	22	22	22
\$TDS TEST SI- LENCE	00	00	00	00	00	00	00	00	00	00	00
\$TDS TEST 1004HZ	00	00	00	00	15	15	00	00	00	00	00
SAAO / HUNTGRUP	04	04	04	04	01	01	04	04	04	04	04
NAWA / POSTDIAL	01	01	01	02	01	01	02	02	01	02	01
PSMABSEN/ CC- MABSEN	05	05	05	05	05	05	05	05	05	05	05
\$BUSY WITH DIAL TONE	00	00	00	00	05	05	00	00	00	00	00
\$DEVICE LOCAL TONE	00	00	00	00	00	00	00	00	00	00	00
\$IDLE CODE	00	00	00	00	00	00	00	00	00	00	00
HEULTON / HOWL- TONE	00	00	00	00	00	00	00	00	09	00	00
\$DTMFTON	00	00	00	00	00	00	00	00	00	00	00
\$DTMF_SUPPRESSION	00	00	00	00	00	00	00	00	00	00	00
ROUTINGTON	00	00	00	00	00	00	00	00	00	00	00
PROVIDER_WARTE TON	00	00	00	00	00	00	00	00	00	00	00
OFF_HOOK_RECAL L	00	00	00	00	00	00	00	00	00	00	00
REQUEST_DIAL_TO NE	00	00	00	00	01	01	00	00	00	00	00
PAUSED_DIAL_TON E	02	02	01	02	01	01	02	02	01	02	02
RESERVE_85					23	23					

CP-Tone 16 - 19 and 29

Country	KOR 16	TRK 17	JPN 18	VIT 19	YUG 29
KEINTON / NOTONE	00	00	00	00	00
WTONINT / INTDTN	01	01	01	01	01
WTONEXT / EXTDTN	02	02	02	01	02
SONDWTON / SPEC	01	03	03	03	09
FREITON / RNGBK	04	04	04	04	04
EFREITON / FRNGBK	15	02	03	01	01
BTON / BUSY	05	05	05	05	05
AFSTON /OVRTN	06	06	06	06	06
ANKLTON / CAMP	07	07	07	07	07
DRUFTON / DATA	01	01	09	01	01
BITTEWAR / HOLDLINE	16	16	16	16	16
NICHTERR / NOTREACH	17	17	17	17	17
NIMO / NOPO	18	18	18	18	18
NIBER / NOTALWD	19	19	19	19	19
ZZTNIMO / IMPOSSFM	20	20	20	20	20
MUSIC / MOH	22	22	22	22	22
QTONNEG / NACK	05	05	05	05	05
QTONPOS / PACK	01	01	01	01	10
VOICEMAL / VOICEMAL	00	00	00	00	00
TESTTON / TESTTONE	23	23	00	25	25
NACHRILV / MWI	21	21	21	21	21
GASSBES / CONG	11	11	05	11	11
NUTON / NUTONE	05	08	08	08	08
\$QUEUES	00	00	00	00	00
\$QUEUEL	00	00	00	00	00
\$ROUTEADV	02	02	02	01	02
LCRET / LCRET	26	26	26	26	26
RECALL	01	01	01	01	01

COUNTY	KOR	TRK	JPN	VIT	YUG
CPTONE	16	17	18	19	29
\$OVRBUSY	00	00	00	00	00
\$OVRINJ	00	00	00	00	00
SPECRING	04	04	04	04	04
\$CALLWAIT	00	00	00	00	00
\$CAMPINV	00	00	00	00	00
\$CAMPREC	00	00	00	00	00
\$LDNCALL	00	00	00	00	00
\$OPERATOR	00	00	00	00	00
\$NOANS	00	00	00	00	00
\$HOLDREC	00	00	00	00	00
KONFTON / CONFTN	06	06	06	06	06
PRUEFTON / TEST	23	23	00	00	01
WTONEXT2 / EXTDTN2	02	02	02	01	02
BTLNAUFG / BONHK	05	05	05	05	05
WAHLVERZ / NODIAL	05	05	05	05	05
WARTTON / HOLD	00	09	00	00	09
AUFMERK / ALERT	06	06	07	07	07
RUECKANK / CBKALERT	04	04	04	04	04
AFSAUTO / OVR	06	06	06	06	06
AFSVORW / OVRWARN	00	00	00	00	00
RTOTON / RTOTONE	02	01	02	01	01
AUFVERZ / REORDER	05	05	05	05	05
ORTANS / LOCANN	00	00	00	00	00
ATONKONF / KNCONF	07	07	7	07	07
ARSTON / DND	04	04	04	04	04
QTONPMW / PCKWD	01	01	01	01	04
ZIPTONE / ZIPTONE	02	01	02	01	01
\$PHONEMAIL MW TONE	00	00	00	00	00
AWVPL / ANNICPT	00	00	16	16	00
\$TONART_NULL	00	00	00	00	00
RTOTON1 / RTOTON1	02	02	02	01	02

Country	KOR 16	TRK 17	JPN 18	VIT 19	YUG 29
RTOTON2 / RTOTON2	02	02	01	24	01
EANKLTON / FCAMP	07	07	07	07	07
TRENNTON / DISCTONE	05	08	08	06	08
MAUFTON / CMALTONE	02	02	02	01	06
WARTEXT / HOLDEXT	16	16	16	16	16
WARTINT / HOLDINT	22	22	22	22	22
WARTSA / HOLDUNT	04	04	04	04	04
WARTPSE / HOLDCCS	04	04	04	04	04
WARTH1 / HOLDH1	16	16	16	16	16
WARTH2 / HOLDH2	22	22	22	22	22
\$TDS TEST SILENCE	00	00	00	00	00
\$TDS TEST 1004HZ	00	00	00	00	00
SAAO / HUNTGRUP	04	04	04	04	04
NAWA / POSTDIAL	01	01	01	01	01
PSMABSEN/ CCMABSEN	05	05	05	05	05
\$BUSY WITH DIAL TONE	00	00	00	00	00
\$DEVICE LOCAL TONE	00	00	00	00	00
\$IDLE CODE	00	00	00	00	00
HEULTON / HOWLTONE	00	09	00	00	09
\$DTMFTON	00	00	00	00	00
\$DTMF_SUPPRESSION	00	00	00	00	00
ROUTINGTON	00	00	00	00	00
PROVIDER_WARTETON	00	00	00	00	00
OFF_HOOK_RECALL	00	00	00	00	00
REQUEST_DIAL_TONE	00	00	00	00	00
PAUSED_DIAL_TONE	02	02	02	01	02
RESERVE_85					

2 SIU Functions

2.1 Conference

The conference tables show which tones are consecutively injected for which times in conference, camp-on or override connections.

For injection into calls via the conference, several tones are generated in parallel in the SIU sometimes for the same application, in order to be able to serve the systems using a separate conference unit (e.g. compact systems).

At system startup, care must be taken to ensure that the required timeslots are also switched to a separate conference module by means of "nailed connections".

2.2 RTO Test

In order to ensure a reliable response of the HZE for RTO testing, such as echo testing on circuits, a suitable tone is required on a country-specific basis depending on the HZE. This need not necessarily be the "ext. dial tone", as this simulated CO dial tone (AWT) only has to create the same audible impression as the genuine dial tone sent by the exchange. There may be physical differences between AWT and simulated AWT which prevent the HZE from responding when the simulated AWT is applied.

Example: Republic of South Africa

CO dial tone (AWT):	400 Hz amplmodulated with 33 Hz
Simulated AWT:	400 Hz beating with 33 Hz

The tone suitable for RTO testing, which can be used in conjunction with the country-specific HZE, is identified with 1 or 2 in the RTO column in the tables.

2.3 Filter Selection for Dial Tone Receivers

Selection of the filter suitable for each country is set during initialization (mode setting).

The values set are listed in the country-specific receiver table.

2.4 Evaluation Processes for Dial Tone Receivers

The "HZE-MODE" table in Sect. 8 contains a list of the setting options incl. frequency, level, and application.

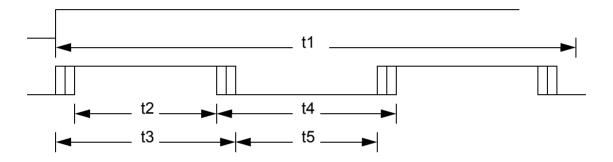
The required evaluation process is selected via the TYPE setting. The evaluation program is supplied with further parameters depending on the process.

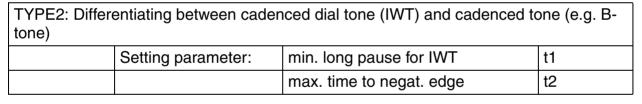
SIU Functions

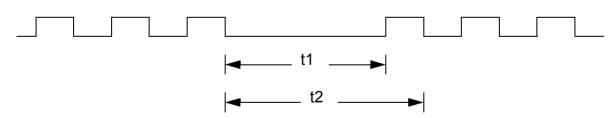
Evaluation Processes for Dial Tone Receivers

The following evaluation processes are possible:

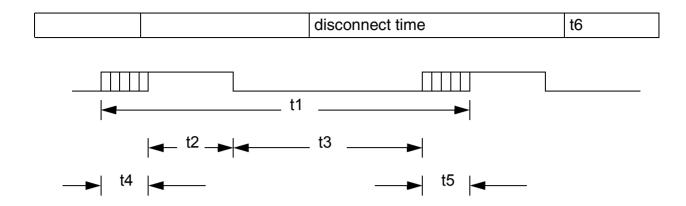
TYPE1: Differentiating between continuous tone and cadenced tone (e.g. B-tone)				
	Setting parameter:	minimum time for continuous tone	t1	
		minimum pulse for B-tone	t2	
		maximum pulse for B-tone	t3	
		minimum pause for B-tone	t4	
		maximum pause for B-tone	t5	







TYPE3: Evaluating the 2nd AWT in Belgium (precise pulse/pause measurement)				
	Setting parameter:	max. pulse + max. pause	t1	
		minimum pulse	t2	
		minimum pause	t3	
		max. pulse - min. pulse	t4	
		max. pause - min. pause	t5	



SIU Functions

Evaluation Processes for Dial Tone Receivers

3 Receiver Variants

MODE	Frequency range (Hz)	Thresh- old (dBm0)	Nominal value	Country of use
1	371 - 485	-20.9	425 Hz	AWT (CO dial tone) FRG
				1st AWT Belgium
				AWT Australia
				AWT Finland
				1st AWT Italy
2	320 - 660	- 20.9	350 Hz + 440 Hz	AWT USA
3	1118 - 1156	- 20.4	1140 Hz	2nd AWT Belgium
4	364 - 554	- 20.9	440 Hz	AWT Switzerland
				AWT Austria
				AWT China
				AWT "GDR"
5	366 - 427	- 34.4	400 Hz mod 33 Hz	AWT South Africa
6	76 - 607	- 23.4	450 Hz + 150 Hz	AWT Netherlands
				2nd AWT Italy
7	420 - 467	- 32.9	440 Hz (+ 330 Hz)	AWT UK
				2nd AWT Portugal
				AWT France
8	280 - 506	- 38.3	425 Hz	1st AWT Spain
				1st AWT Portugal
9	560 - 635	- 38.3	600 Hz	2nd AWT Spain
Α	281 - 370	-32.5	330 Hz	2nd AWT France
В	335 - 484	-20.9	425 Hz	2nd AWT BRA
С	387 - 463	-28.0	425 Hz (+500) Hz	CIS (ANI-proof)

Tone to be evaluated: F = F1 (+ F2)

Response for mode 1...6, 8, 9, B, D: F1 and F2 in filter range

Response for mode 7, A, C: F1 in filter range (F2 can be outside)

Receiver Variants

Examples:

2nd AWT France = 440 + 330 Hz, must be differentiated from 1st AWT France = 440 Hz. Here the 330 Hz component must be detected.

AWT UK is 440 + 330 Hz.

The 440 Hz component must be detected, 330 Hz is irrelevant.

Although in the CIS countries a 500-Hz ANI signal tone may additionally be present, this must not prevent reception

For mode 1...6, 8, 9, B reception is rejected if an additional tone is discovered in the out-band range (voice protection).

Mode = 2 can also be used for A-law from SIUX onwards (SIUCX, SICOE). For SIU type 1 and SIUCO, only for u-law (special US-SIU).

4 Announcements

For certain features, brief announcements can be played to the user. Six announcement texts have been specified for this purpose. These announcement texts are stored in different languages. The required language is selected via the language code (SPKZ).

SPKZ	Language	SPKZ	Language
0	Language-neutral	N	Greek
1	German	0	Slovakian
2	English (British)	Р	Norwegian
3	French	Q	Catalonian
4	Spanish	R	(reserved)
5	Portuguese	S	Swedish
6	Dutch	Т	Estonian
7	Danish	U	Slovenian
8	Finnish	V	Turkish
9	Brazilian	W	Croat
Α	Italian	Х	
В	Flemish	Y	
С	Chinese	Z	
D	English (USA)		
E	Hungarian		
F	Polish		
G	Czech		
Н	Russian (GUS)		
I	Indonesian		
J	Thai		
K	Argentinian		
L	Rumanian		
М	Malayan		

Wording of announcements

German

Announcements

Tsl	German	Lang. code= 1
16	Bitte warten	
17	Teilnehmer ist nicht erreichbar	
18	Funktion ist nicht möglich	
19	Sie sind nicht berechtigt	
20	Zur Zeit nicht möglich	
21	Nachricht liegt vor	

English

Tsl	English	Lang. code = 2
16	Please hold the line	
17	Number not available	
18	Function not possible	
19	Access not authorized	
20	Currently in use	
21	You have a message	

French

Tsl	French	Lang. code = 3
16	Un instant, s.v.p.	
17	Correspondant inaccessible	
18	Fonction impossible	
19	Non autorisé	
20	Bloqué pour l'instant	
21	Message en attente	

Spanish

Tsl	Spanish	Lang. code = 4
16	Espere po favor	

Tsl	Spanish	Lang. code = 4
17	No accesible	
18	Función impossible	
19	No autorizado	
20	Bloquado de momente	
21	Mensaje en espera	

Portuguese

Tsl	Portuguese	Lang. code = 5
16	Espere, faz favor	
17	Assinante nao éacessivel	
18	A funcao nao épossivel	
19	Nao estautorizado	
20	Atualmente bloqueado	
21	Mensagem disponivel	

Dutch

Tsl	Dutch	Lang. code = 6
16	Een ogenblik alstublieft	
17	Abonnee niet gereikbaar	
18	Functie niet mogelijk	
19	U bent hiertoe niet bevoegd	
20	Momenteel geblokkeerd	
21	Een bericht voor u	

Danish

Tsl	Danish	Lang. code = 7
16	Et ojeblik	
17	Abonnent kan ikke kaldes	
18	Funktion ikke huldig	

Announcements

Tsl	Danish	Lang. code = 7
19	Service ikke tilladt	
20	For tiden spaerret	
21	Meddelse foreligger	

Finnish

Tsl	Finnish	Lang. code = 8
16	Odottakaa	
17	Tilaajaa ei saavuteta	
18	Toiminta mahdoton	
19	Teillä ei ole oikeutta	
20	Tällä hetkellä estetty	
21	Saapunut sanoma	

Italian

Tsl	Italian	Lang. code = A
16	Un momemto	
17	Utente irragiungibile	
18	Funzione impossibile	
19	Lei non é abilitato	
20	Attualmente bloccato	
21	Messagio nel mail-box	

5 Other Functions

5.1 Music-on-hold

Users held in a queue can be also supplied with music-on-hold instead with the "Please hold the line" announcement. Three melodies + "Quiet" are available. "Quiet" consists of pauses only, for customers who want neither the announcement nor music-on-hold. The selection is made via the music code.

TSL	Music-on-hold
22	Hicom melody (replaced by "Quiet")
22	Schäffler Dance
22	A Little Night Music
22	Quiet (pauses only)

5.2 Test Transmitter / Test Receiver

TSL	Music-on-hold
25	Test transmitter (pattern generator)
02	Test receiver (pattern receiver)

5.3 DTMF Receivers

The 4 DTMF receivers of the SIU are permanently switched to the following timeslots when the module is initialized. Highway A and highway B are the 2-MHz highways leading to the SIU. When using 4-MHz highways (SIUCO), these are understood as the two highways converted to 2 MHz.

TSL	Hwy	Function
00	Α	DTMF receiver 0
01	Α	DTMF receiver 1
00	В	DTMF receiver 2
01	В	DTMF receiver 3
03	Α	DTMF receiver 4
04	А	DTMF receiver 5

Other Functions

DTMF Transmit Level Table

TSL	Hwy	Function		
02	В	DTMF receiver 6		
03	В	DTMF receiver 7		

DTMF receivers 4,5,6,7 are only present in the SICOE of HICOM300 V3.5 or higher

5.4 DTMF Transmit Level Table

DTMF transmit table (SIU 2)							
LKZ	Filename	Country	Aggregate level in dBm0	Lower freq. lim. level in dBm0	Upper freq. lim. level in dBm0		
0	PZJS1ES0	Standard	+0.80	-7.20	-5.20		
(4)	PZJS1ES(4)	(Australia)	(-1.20)	(-9.20)	(-7.20)		
5	PZJS1ES5	Spain/Bel- gium	+2.08	-5.92	-3.92		
7	PZJS1ES7	United Kingdom	-5.20	-13.20	-11.20		
В	PZJS1ESB	Netherlands	-3.00	-11.00	-9.00		



Note: DTMF levels for Australia (4) have not been implemented.

5.5 DTMF Level Country Table

In the SIUCO, the level for its DTMF generators is set for each country code (LKZ) as follows:

LKZ	Aggregate level	LKZ	Aggregate level
0	+0.8 dBm0	Q	+0.8 dBm0
1	+0.8	R	
2	+0.8	S	+0.8
3	+0.8	Т	+0.8
4	-3.0	U	+0.8

LKZ	Aggregate level	LKZ	Aggregate level
5	+2.08	V	
6	-3.0	W	+0.8
7	-5.2	Х	
8	+0.8	Y	
9	+0.8	Z	
Α	+0.8	10	+0.8
В	-3.0	11	
С	+0.8	12	+2.08
D	+0.8	13	+2.08
Е	+0.8	14	+0.8
F	+0.8	15	+0.8
G	+0.8	16	+0.8
Н	+0.8	17	+0.8
I		18	+0.8 ?
J	+0.8		19
K	+0.8		20
L			21
М	+0.8		22
N	+0.8		23
0	+0.8		24
Р	+0.8		25

Other Functions

DTMF Level Country Table

6 References

The table below gives the documents used for compiling the tone tables and receiver tables for the newly added countries from V3.1 onwards. PTT regulations of the countries from V2.1 and V2.2 are not listed here.

Further information concerning the operation of the tone generators and dial tone receivers may be obtained from the hardware and loadware specification for the SIU.

China:	TECHNICAL SPECIFICATION OF SPC DIGITAL PRIVATE EXCHANGES TO BE INTRODUCED January, 1987
France:	System Specification A20 SPECIFICATION TECHNIQUE ST/PAA/TPA/STP/1284 Spécification des tonalités et annonces parlées émises par un autocommutateur privé. SPECIFICATION TECHNIQUE ST/PAA/TPA/AGH/1108 June 1985 - 3eme EDITION Interface réseau analogique des matériels téléphoniques et télématiques
UK:	Audible Tones required in UK (A30 paper) BS 6450 Part 1 BS 6450 Part 2 BS 6305
Holland:	System Specification A30 Technical requirements for terminals for connection to the public telephone network, T 11-03
Italy:	System Specification A30 ISPT Chap.7, Chap 11
Poland:	Technical Requirements Digital Switching Systems IL - 94 - CF Date: 01-02-1991 Partial copy of Hr. Pfrommer (pages 42 - 44)
South Africa:	STANDARD SPECIFICATION FOR PRIVATE AUTOMATIC BRANCH EXCHANGES June 1988 Specification 3P26/PABX/JUNE 1988

References

7 Country Tables

7.1 Australia

Tone Table								
	SIUX V3.3 SIUCO V3.3							
Date: 2	Date: 22/10/1996 Australia: LKZ =							
TSL	Tone	TOG	Frequency Hz	RTO	Timing pulse / pause in ms	Level dBm0		
0	Idle Channel	-	0					
1	Int. Dial	8	400 + 450		Continous	-11		
2	Ext. Dial 1	6	425	Х	Continous	-11		
3	Special Dial	5	425		200/300/ <u>200</u> /300/ <u>200</u> / 800	-11		
4	Ring	10	400 + 450		<u>400</u> /200/ <u>400</u> /2000	-11		
5	Busy	0	425		<u>380</u> / 380	-11		
6	Override	1	425		<u>800</u> / 15000	-11		
7	Camp On	2	425		<u>200</u> / 200 / <u>200</u> / 4400	-11		
8	Number Unobtain- able	11	425		<u>2500</u> / 500	-11		
9	Data Call	3	1300		<u>600</u> / 1740	-11		
10	Pos. Acknowldege	-						
11	Congestion	-						
12	Conference	-						
13	Ext. Dial 2	9	400 + 425		Continous	-11		
14	Neg. Acknowldege	-						
15	-	-						
23	Alarm	-						
24	Conference Aux.	4	425		Continous	-11		
25	-	-						
26	LCR Tone	12	1800		340/200/ <u>340</u> /200/ <u>340</u> / 1000	-11		

Conference Tones									
	SIUCO V3.3+								
Date:	Date: 12/05/1995 Australia: LKZ = 4								
Coi	nference	C	Camp On	Nigl	nt Camp On	0	verride		
Time (ms)	Tone	Time (ms)	Tone Time (ms) Tone (ms)			Tone			
800	Conf.Aux	Cont.	Camp On	Cont.	Camp On	800	Conf. Aux.		
Cont.	Quiet	-	-	-	-	500	Quiet		
-	-	-	-	-	-	Cont.	Override		
-	-	-	-	-	-	-	-		

Dial Tone Receiver (DTR)								
SIUCO V3.3+								
Date: 12/05/1995			Australia: LKZ = 4					
		1st DTR und 2nd DTR	3rd DTR und 4th DTR					
Mode (filter selection)		8	8					
Type (time evaluation)		1	1					
Times type 1 (continuous tone / b	ousy ton	e)						
Continuous tone min.	(T1)	600 ms	600 ms					
Pulse min.	(T2)	280 ms	280 ms					
Pulse max.	(T3)	480 ms	480 ms					
Pause min.	(T4)	280 ms	280 ms					
Pause max.	(T5)	480 ms	480 ms					
Times type 2 (internal dial tone /	busy ton	ie)						
Long pause	(T1)							
Pulse max. + pause max.	(T2)							
Times type 3 (2nd AWT Belgium	, measur	rement pulse - pause - p	ulse)					
Pulse max. + pause max.	(T1)							
Pulse min.	(T2)							
Pause min.	(T3)							
Pulse max pulse min.	(T4)							
Pause max pause min.	(T5)	_	_					

Dial Tone Receiver (DTR)							
SIUCO V3.3+							
Date: 12/05/1995	Australia: LKZ = 4						
	1st DTR und 2nd 3rd DTR und 4th DTR						
Disconnect time	(T6)						

Country Tables *Australia*

7.2 Belgium

	Tone Table								
					SIU SIUCO	V3.1 V3.2			
Date:	Date: 18/06/1989 Belgium: LKZ								
TSL	Tone	TOG	Frequency Hz	RTO	Timing pulse / pause in ms	Level dBm0			
0	Idle Channel	-	0						
1	Int. Dial	6	425		<u>2000</u> /300	1			
2	Ext. Dial	0	425	1	Continous	1			
3	Special Dial	10	425 + 400		Continous	-0,8			
4	Ring	1	425		<u>1000</u> /3000	-1			
5	Busy	2	425		<u>500</u> /500	-1			
6	Override	3	425		<u>200</u> /3500	-8			
7	Camp On	4	425		<u>100</u> /1900	-8			
8	Number Unobtainable	11	950/1400/ 1800		<u>320/320/320</u> /1000	-8			
9	Data Call								
10	Pos. Acknowledge	9	425		<u>40</u> /40	1			
11	Congestion	8	425		240/260	-1			
12	Conference	-							
13	Ext. Dial 2	7	900/1000/ 1140	2	380/380/380	1			
14	Neg. Acknowledge	-							
15	-	-							
23	Conference Aux. 2	-							
24	Conference Aux.	5	425		Continous	-8			
25		-							
26		-							

	Conference Tones								
	V3.2 V3.3								
Date: 30/03/1993 Belgium: LKZ =									
Co	onference	Ca	amp On	Night	Camp On	np On Override			
Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone		
200	Conf. Aux.	Cont.	Camp On	Cont.	Camp On	Cont.	Override		
3500	Pause	-	-	-	-	-	-		
200	Conf. Aux.	-	-	-	-	-	-		
Cont.	Quiet	-	-	-	-	-	-		

Dial Tone Receiver (DTR)							
SIUCO V3.3+							
Date: 13/09/1990			Belgium: LKZ = 3				
		1st DTR and 2nd DTR	3rd DTR and 4th DTR				
Mode (filter selection)		1	3				
Type (time evaluation)		1	3				
Times type 1 (continuous tone / b	usy ton	e)					
Continuous tone min.	(T1)	650 ms					
Pulse min.	(T2)	200 ms					
Pulse max.	(T3)	550 ms					
Pause min.	(T4)	200 ms					
Pause max.	(T5)	550 ms					
Times type 2 (internal dial tone / I	ousy tor	ne)					
Long pause	(T1)						
Pulse max. + pause max.	(T2)						
Times type 3 (2nd AWT Belgium,	measu	rement pulse - pause - p	ulse)				
Pulse max. + pause max.	(T1)		1220 ms				
Pulse min.	(T2)		205 ms				
Pause min.	(T3)		445 ms				
Pulse max pulse min.	(T4)		215 ms				
Pause max pause min.	(T5)		390 ms				

Dial Tone Receiver (DTR)							
SIUCO V3.3+							
Date: 13/09/1990		Belgium: LKZ = 3					
		1st DTR and 2nd DTR	3rd DTR and 4th DTR				
Disconnect time	(T6)		30 ms				

Belgium

7.3 Brazil

	Tone Table								
					SIUCO SIUX	V3.2 V3.3+			
Date: 2	27.10.1999				Brazil: L	KZ = C			
TSL	Tone	TOG	Frequency Hz	RTO	Timing pulse / pause in ms	Level dBm0			
0	Idle Channel	7	0						
1	Int. Dial	0	425		<u>920</u> /80	-10			
2	Ext. Dial	1	425	1,2	Continous	-10			
3	Special Dial	8	425 + 400		Continous	-10			
4	Ring	2	425		<u>1000</u> /4000	-10			
5	Busy	3	425		<u>240</u> /260	-10			
6	Override	4	425		<u>60</u> /1800	-19			
7	Camp On	5	425		<u>200</u> /300/ <u>200</u> /1300	-19			
8	Number Unobtain- able	11	950/1400/ 1800		320/320/320/960	-3			
9	Data Call	6	1300		<u>600</u> /1800	-3			
10	Follow-me	13	425		<u>120</u> /120	-10			
11	Inaccessible net- work	14	425		<u>500</u> /500	-10			
12	Conference	-							
13	Ext. Dial 2	-							
14	Neg. Acknowledge	10	425		<u>100/</u> 100	-10			
15	-	-							
23	-	-							
24	Conference Aux.	9	425		Continous	-19			
25	-	-							
26	LCR Tone	12	1800		340/200/ <u>340</u> /200/ <u>340</u> / 1000				

Conference Tones								
	V3.2 V3.3 V3.3+							
Date: 18/05/1994 Brazil: LKZ = 0								
C	Conference Ca		amp On	Night Camp On		Override		
Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone	
200	Conf. Aux.	Cont.	Camp On	Cont.	Camp On	60	Conf. Aux.	
300	Pause	-	-	-	-	100	Pause	
200	Conf. Aux.	-	-	-	-	Cont.	Override	
Cont.	Quiet	-	-	-	-	-	-	

Dial Tone Receiver (DTR)							
SIUCO V3.3+							
Date: 18/05/1994			Brazil: LKZ = Q				
		1st DTR and 2nd DTR	3rd DTR and 4th DTR				
Mode (filter selection)		В	В				
Type (time evaluation)		1	1				
Times type 1 (continuous tone / b	usy ton	e)					
Continuous tone min.	(T1)	500 ms	500 ms				
Pulse min.	(T2)	180 ms	180 ms				
Pulse max.	(T3)	320 ms	320 ms				
Pause min.	(T4)	180 ms	180 ms				
Pause max.	(T5)	320 ms	320 ms				
Times type 2 (internal dial tone / b	ousy tor	ne)					
Long pause	(T1)						
Pulse max. + pause max.	(T2)						
Times type 3 (2nd AWT Belgium,	measu	rement pulse - pause - p	ulse)				
Pulse max. + pause max.	(T1)						
Pulse min.	(T2)						
Pause min.	(T3)						
Pulse max pulse min.	(T4)						

Dial Tone Receiver (DTR)							
SIUCO V3.3+							
Date: 18/05/1994	Brazil: LKZ = Q						
		1st DTR and 2nd DTR	3rd DTR and 4th DTR				
Pause max pause min.	(T5)						
Disconnect time	(T6)						

Brazil

7.4 Federal Republic of Germany

	Tone Table							
					SIU SIUCO	V3.1 V3.2		
Date: 2	24/06/1989		F	ederal F	Republic of Germany: L	KZ = 0		
TSL	Tone	TOG	Frequency Hz	RTO	Timing pulse / pause in ms	Level dBm0		
0	Idle Channel	7	0					
1	Int. Dial	0	425	2	200/300/ <u>200</u> /300/ <u>200</u> / 800	-3		
2	Ext. Dial	1	425	1	Continous	-3		
3	Special Dial	8	425 + 400		Continous	-3		
4	Ring	2	425		<u>1000</u> /4000	-3		
5	Busy	3	425		<u>160</u> /440	-3		
6	Override	4	425		<u>200</u> /300/ <u>200</u> /1300	-14		
7	Camp On	5	425		<u>100</u> /1900	-14		
8	Number Unobtain- able	11	950/1400/ 1800		<u>320/320/320</u> /960	-3		
9	Data Call	6	1300		<u>600</u> /1800	+1		
10	Pos. Acknowledge	-						
11	NCN Dial	13	450		Dauer	-10		
12	NCN Busy	14	450		<u>300</u> /300	-10		
13	NCN Ring Back	15	450		<u>1000</u> /2000	-10		
14	NCN Warning	7	450		100/100/ <u>100</u> /100/ <u>100</u> / 500	-10		
15	-	-						
23		-						
24	Conference Aux.	9	425		Continous	-14		
25	-	-						
26	LCR Tone		1800		340/200/ <u>340</u> /200/ <u>340</u> / 1000	-3		

Conference Tones								
						SIUCO		
						SCC	V3.3	
Date:	30/03/1993			Fed	eral Republic	c of Ger	many: LKZ = 0	
Co	onference	Ca	amp On	Night Camp On Override			Override	
Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone	
200	Conf. Aux.	Cont.	Camp On	Cont.	Camp On	Cont.	Override	
300	Pause	-	-	-	-	-	-	
200	Conf. Aux.	-	-	-	-	-	-	
Cont.	Quiet	-	-	-	-	-	-	

Dial Tone Receiver (DTR)								
SIUCO V3.3+								
Date: 13/09/1990		Federal Republic	of Germany: LKZ = 0					
		1st DTR and 2nd DTR	3rd and DTR 4th DTR					
Mode (filter selection)		1	1					
Type (time evaluation)		1	2					
Times type 1 (continuous tone / b	usy ton	e)						
Continuous tone min.	(T1)	500 ms						
Pulse min.	(T2)	160 ms						
Pulse max.	(T3)	250 ms						
Pause min.	(T4)	250 ms						
Pause max.	(T5)	440 ms						
Times type 2 (internal dial tone / I	ousy tor	ne)						
Long pause	(T1)		800 ms					
Pulse max. + pause max.	(T2)		1000 ms					
Times type 3 (2nd AWT Belgium,	measu	rement pulse - pause - p	ulse)					
Pulse max. + pause max.	(T1)							
Pulse min.	(T2)							
Pause min.	(T3)							
Pulse max pulse min.	(T4)							
Pause max pause min.	(T5)							

Dial Tone Receiver (DTR)							
SIUCO V3.3+							
Date: 13/09/1990	Federal Republic of Germany: LKZ = 0						
		1st DTR and 2nd DTR	3rd and DTR 4th DTR				
Disconnect time	(T6)						

Federal Republic of Germany

7.5 China

Tone Table								
					SIU SIUCO	V3.1 V3.2		
Date: 2	27/06/1989				China: L	KZ = C		
TSL	Tone	TOG	Frequency Hz	RTO	Timing pulse / pause in ms	Level dBm0		
0	Idle Channel	-	0					
1	Int. Dial	0	400	1,2	Continous	-5		
2	Ext. Dial	-						
3	Special Dial	6	400		<u>400</u> /40	-9		
4	Ring	1	450		<u>1000</u> /4000	-9		
5	Busy	2	450		<u>350</u> /350	-9		
6	Override	3	450		<u>200</u> /200/ <u>200</u> /600	-19		
7	Camp On	4	450		<u>400</u> /4000	-19		
8	Number Unobtain- able	8	450		100/100/100/100/ 100/400/400	-9		
9	Data Call	-						
10	Pos. Acknowledge	-						
11	Congestion	7	450		<u>700</u> /700	-9		
12	Conference	9	1400		<u>400</u> /10000	-19		
13	Ext. Dial 2	-						
14	Neg. Acknowledge	-						
15	Erstfreiton	5	450		Continous	-9		
23	Conference Aux. 2	11	1400		Continous	-19		
24	Conference Aux.	10	450		Continous	-19		
25	-	_						
26	LCR Tone	12	1800		340/200/ <u>340</u> /200/ <u>340</u> / 1000	-5		

	Conference Tones							
SIUCO V3.2								
D	SCC V3.3							
Date: 3	30/03/1993					(China: LKZ = C	
C	onference	Ca	amp On	n Night Camp On Override			Override	
Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone	
Cont.	Conference	Cont.	Camp On	Cont.	Camp On	Cont.	Override	
		-	-	-	-	-	-	
		-	-	-	-	-	-	
		-	-	-	-	-	-	

Dial Tone Receiver (DTR)							
	V3.3+						
Date: 13/09/1990			China: LKZ = C				
		1st DTR and 2nd DTR	3rd DTR and 4th DTR				
Mode (filter selection)		4	4				
Type (time evaluation)		1	1				
Times type 1 (continuous tone / b	usy ton	e)					
Continuous tone min.	(T1)	900 ms	900 ms				
Pulse min.	(T2)	310 ms	310 ms				
Pulse max.	(T3)	770 ms	770 ms				
Pause min.	(T4)	310 ms	310 ms				
Pause max.	(T5)	770 ms	770 ms				
Times type 2 (internal dial tone / I	ousy tor	ne)					
Long pause	(T1)						
Pulse max. + pause max.	(T2)						
Times type 3 (2nd AWT Belgium,	measu	rement pulse - pause - p	ulse)				
Pulse max. + pause max.	(T1)						
Pulse min.	(T2)						
Pause min.	(T3)						
Pulse max pulse min.	(T4)						
Pause max pause min.	(T5)						

Dial Tone Receiver (DTR)						
SIUCO V3.3+						
Date: 13/09/1990	China: LKZ = 0					
		1st DTR and 2nd DTR	3rd DTR and 4th DTR			
Disconnect time	(T6)					

China

7.6 Czech Republic

			Tone Table			
					SIU SIUCO	V3.1 V3.2
Date: 2	27/08/1993				Czech Republic: L	KZ = J
TSL	Tone	TOG	Frequency Hz	RTO	Timing pulse / pause in ms	Level dBm0
0	Idle Channel	-	0			
1	Int. Dial	0	425	1	Continous	-5
2	Ext. Dial	1	425		<u>320</u> /340/ <u>660</u> /600	-5
3	Special Dial	8	425		<u>160</u> /160	-5
4	Ring	2	425		<u>1000</u> /4000	-5
5	Busy	3	425		<u>320</u> /340	-5
6	Override	4	425		<u>320</u> /340/ <u>320</u> /1500	-11
7	Camp On1	5	425		<u>320</u> /5000	-11
8	Number Unobtain- able	11	950/1400/ 1800		<u>320/320/320</u> /1000	-5
9	Data Call	-				
10	Pos. Acknowledge	-				
11	Congestion	7	425		<u>120</u> /120	-5
12	Conference	-				
13	Ext. Dial 2 (simulated)	-				
14	Neg. Acknowledge	-				
15	Camp On 2	6	425		<u>1000</u> /160/ <u>340</u> /3500	-5
23	Conference Aux. 2	-				
24	Conference Aux.	9	425		Continous	-11
25	-	-				
26	LCR Tone		1800		340/200/ <u>340</u> /200/ <u>340</u> / 1000	-5

	Conference Tones								
SIUCO SCC									
Date: 30/03/1993 Czech Republic: LKZ							oublic: LKZ = J		
Co	onference	Camp On		Night Camp On Override			Override		
Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone		
600	Int. Dial	Cont.	Camp On	Cont.	Camp On	Cont.	Override		
Cont.	Quiet	-	-	-	-	-	-		
-	-	-	-	-	-	-	-		
-	-	-	-	-	-	-	-		

Dial Tone Receiver (DTR)							
	V3.3+						
Date: 07/09/1993		Cz	ech Republic: LKZ = J				
		1st DTR and 2nd DTR	3rd DTR and 4th DTR				
Mode (filter selection)		4	4				
Type (time evaluation)		1	2				
Times type 1 (continuous tone / busy tone)							
Continuous tone min.	(T1)	450 ms					
Pulse min.	(T2)	140 ms					
Pulse max.	(T3)	180 ms					
Pause min.	(T4)	420 ms					
Pause max.	(T5)	460 ms					
Times type 2 (internal dial tone / I	ousy ton	ne)					
Long pause	(T1)		800 ms				
Pulse max. + pause max.	(T2)		1000 ms				
Times type 3 (2nd AWT Belgium,	measur	rement pulse - pause - p	ulse)				
Pulse max. + pause max.	(T1)						
Pulse min.	(T2)						
Pause min.	(T3)						
Pulse max pulse min.	(T4)						
Pause max pause min.	(T5)						

Dial Tone Receiver (DTR)						
SIUCO V3.3+						
Date: 07/09/1993	Czech Republic: LKZ = J					
		1st DTR and 2nd DTR	3rd DTR and 4th DTR			
Disconnect time	(T6)					

Czech Republic

7.7 Denmark

Tone Table								
					SIU SIUCO	V3.1 V3.2		
Date:	Denmark: L	KZ = H						
TSL	Tone	TOG	Frequency Hz	RTO	Timing pulse / pause in ms	Level dBm0		
0	Idle Channel	•	0					
1	Int. Dial	10	400 + 450		Continous	-6,5		
2	Ext. Dial	1	425	1,2	Continous	-6,5		
3	Special Dial	8	480 + 620		<u>20</u> /20	-6,5		
4	Ring	2	425		<u>1000</u> /4000	-6,5		
5	Busy	3	425		<u>240</u> /240	-6,5		
6	Override	4	425		<u>20</u> /500	-6,5		
7	Camp On	5	425		<u>200</u> /200/ <u>200</u> /3600	-12,5		
8	Number Unobtain- able	11	950/1400/ 1800		<u>320/320/320</u> /1000	-6,5		
9	Data Call	-						
10	Pos. Acknowledge	6	425		<u>320</u> /20	-6,5		
11	Congestion	7	425		<u>500</u> /500	-6,5		
12	Conference	-						
13	Ext. Dial 2 (simulated)	-						
14	Neg. Acknowledge	-						
15	-	-						
23	Conference Aux. 2	•						
24	Conference Aux.	0	425		Continous	-12,5		
25	-	-						
26	LCR Tone		1800		340/200/ <u>340</u> /200/ <u>340</u> / 1000			

Conference Tones								
	V3.2							
						SCC	V3.3	
Date:	Date: 27/08/1993 Denmark: LKZ =							
C	onference	Ca	amp On	Night	Camp On	Override		
Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone	
20	Ext. Dial	Cont.	Camp On	Cont.	Camp On	Cont.	Override	
500	Pause	-	-	-	-	-	-	
20	Ext. Dial	-	-	-	-	-	-	
500	Pause							
20	Ext. Dial							
Cont.	Quiet	-	-	-	-	-	-	

Dial Tone Receiver (DTR)							
	V3.3+						
Date: 13/09/1993	Denn	nark (Federal Republic	of Germany): LKZ = 0				
		1st DTR and 2nd DTR	3rd DTR and 4th DTR				
Mode (filter selection)		1	1				
Type (time evaluation)		1	2				
Times type 1 (continuous tone / b	usy ton	e)					
Continuous tone min.	(T1)	500 ms					
Pulse min.	(T2)	160 ms					
Pulse max.	(T3)	250 ms					
Pause min.	(T4)	250 ms					
Pause max.	(T5)	440 ms					
Times type 2 (internal dial tone / I	ousy tor	ne)					
Long pause	(T1)		800 ms				
Pulse max. + pause max.	(T2)		1000 ms				
Times type 3 (2nd AWT Belgium, measurement pulse - pause - pulse)							
Pulse max. + pause max.	(T1)						
Pulse min.	(T2)						
Pause min.	(T3)						

Dial Tone Receiver (DTR)							
SIUCO V3.3+							
Date: 13/09/1993	Denr	Denmark (Federal Republic of Germany): LKZ = 0					
		1st DTR and 2nd DTR	3rd DTR and 4th DTR				
Pulse max pulse min.	(T4)						
Pause max pause min.	(T5)						
Disconnect time	(T6)						

Denmark

7.8 Finland

			Tone Table)		
					SIU SIUCO	V3.1 V3.2
Date:	14/08/1995				Finland: L	KZ = 8
TSL	Tone	TOG	Frequency Hz	RTO	Timing pulse / pause in ms	Level dBm0
0	Idle Channel	-	0			
1	Int. Dial (Centrex access)	0	425	2	200/300/200/300/200/ 800	-8
2	Ext. Dial	1	425	1	Continuous	-8
3	Special Dial	8	425		<u>660</u> /20	-8
4	Ring back	2	425		<u>1000</u> /4000	-8
5	Busy	3	425	2	<u>300</u> /300	-8
6	Override	4	425		200/300/200/1300	-15
7	Camp On	-				
8	Number Unobtain- able	11	950/1400/ 1800		340/340/340/1000	-15
9	Data Call	6	1300		<u>600</u> /1800	-8
10	Pos. Acknowledge	-				
11	Congestion	-				
12	Conference	-				
13	Ext. Dial 2	-				
14	Neg. Acknowledge	-				
15	-	-				
23	-	-				
24	Conference Aux.	5	425		Continuous	-15
25	-	-				
26	LCR Tone	12	1800		340/200/ <u>340</u> /200/ <u>340</u> / 1000	-8

	Conference Tones							
						SIUCO SCC	V3.2 V3.3	
Date: 0	2/08/1995					Fi	nland: LKZ = 8	
Co	onference	Ca	amp On	Nigh	t Camp On		Override	
Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone	
200	Conf. Aux.	-	-	-	-	Cont.	Override	
300	Idle Channel	-	-	-	-	-	-	
200	Conf. Aux.	-	-	-	-	-	-	
5000	Idle Channel	-	-	-	-	-	-	
200	Conf. Aux.	-	-	-	-	-	-	
300	Idle Channel	-	-	-	-	-	-	
200	Conf. Aux.	-	-	-	-	-	-	
Cont.	Idle Channel	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	

Dial Tone Receiver (DTR)							
		SIU SIUCO					
Date: 15/08/1995			Finland: LKZ = 8				
		1st DTR and 2nd DTR	3rd DTR and 4th DTR				
Mode (filter selection)		6	6				
Type (time evaluation)		1	2				
Times type 1 (continuous tone / bus	Times type 1 (continuous tone / busy tone)						
Continuous tone min.	(T1)	500					
Pulse min.	(T2)	220					
Pulse max.	(T3)	380					
Pause min.	(T4)	220					
Pause max.	(T5)	380					
Times type 2 (internal dial tone / busy tone)							
Long pause	(T1)		800 ms				
Pulse max. + pause max.	(T2)		1000 ms				

Dial Tone Receiver (DTR)							
SIU V3.1 SIUCO V3.2							
Date: 15/08/1995			Finland: LKZ = 8				
		1st DTR and 2nd DTR 3rd DTR and 4th DTF					
Times type 3 (2nd AWT Belgium	n, measuren	nent pulse - pause - puls	e)				
Pulse max. + pause max.	(T1)						
Pulse min.	(T2)						
Pause min.	(T3)						
Pulse max pulse min.	(T4)						
Pause max pause min.	(T5)	(T5)					
Disconnect time	(T6)						



Note

For the TYPE 2 times, pulse + pause max (T2) is now specified as 1000 ms because it was already coded in this way in the old version and adopted.

Finland

7.9 France

	Tone Table								
					SIU SIUCO	V3.1 V3.2			
Date:	25/04/1989				France: L	KZ = A			
TSL	Tone	TOG	Frequency Hz	RTO	Timing pulse / pause in ms	Level dBm0			
0	Idle Channel	-	0						
1	Int. Dial	0	330		Continous	-8			
2	Ext. Dial	1	440	1	Continous	-11			
3	Special Dial	8	440/440 + 330		<u>750</u> /750	-8/-11			
4	Ring	2	440		<u>1500</u> /3500	-11			
5	Busy	3	440		<u>500</u> /500	-11			
6	Override	4	440		200/320/ <u>200</u> /1400	-11			
7	Camp On	5	440		300/30000	-11			
8	Number Unobtainable	11	440/330/ 440		<u>350/350/350</u> /500	-11			
9	Data Call	-							
10	Pos. Acknowledge	6	330		<u>50</u> /50	-8			
11	Congestion	-							
12	Conference	-							
13	Ext. Dial 2 (simulated)	9	330 + 440	2	Continous	-8/-11			
14	Neg. Acknowledge	-							
15	Test	7/10	800		Continous	-2			
23	Vermittlungston ¹	13	440		<u>40</u> /60	-11			
24	Conference Aux.	10/7	440		Continous	-11			
25	-	-							
26	LCR Tone	-	1800		340/200/ <u>340</u> /200/ <u>340</u> / 1000	-11			

¹ Routing Tone = Tonalité d'achievement for SNCF can only be implemented with SIUX, SIUCX

	Conference Tones								
	SIUCO V3.2								
						SCC	V3.3		
Date: 3	Date: 30/03/1993 France: LKZ = A								
Co	onference	Ca	amp On	On Night Camp On Override					
Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone		
200	Conf. Aux.	300	Ext. Dial	300	Ext. Dial	Cont.	Override		
300	Pause	1000	Pause	1000	Pause	-	-		
200	Conf. Aux.	Cont.	Camp On	Cont.	Camp On	-	-		
Cont.	Quiet	-	-	-	-	-	-		

Dial Tone Receiver (DTR)							
	V3.3+						
Date: 15/06/1991			France: LKZ = A				
		1st DTR and 2nd DTR	3rd DTR and 4th DTR				
Mode (filter selection)		7	А				
Type (time evaluation)		1	1				
Times type 1 (continuous tone /	ousy ton	e)					
Continuous tone min.	(T1)	1200 ms	1200 ms				
Pulse min.	(T2)	380 ms	380 ms				
Pulse max.	(T3)	560 ms	560 ms				
Pause min.	(T4)	400 ms	400 ms				
Pause max.	(T5)	590 ms	590 ms				
Times type 2 (internal dial tone /	busy tor	ne)					
Long pause	(T1)						
Pulse max. + pause max.	(T2)						
Times type 3 (2nd AWT Belgium	, measu	rement pulse - pause - p	ulse)				
Pulse max. + pause max.	(T1)						
Pulse min.	(T2)						
Pause min.	(T3)						
Pulse max pulse min.	(T4)						
Pause max pause min.	(T5)						

Dial Tone Receiver (DTR)						
SIUCO V3.3+						
Date: 15/06/1991			France: LKZ = A			
		1st DTR and 2nd DTR	3rd DTR and 4th DTR			
Disconnect time	(T6)					

France

7.10 Great Britain

Tone Table

SIU V3.1 SIUCO V3.2

					SIUX	E V2.0
Date: 8	3.11.1999	Great Britain				
TSL	Tone	TOG	Frequency Hz	RTO	Timing pulse / pause in ms	Level dBm0
0	Idle Channel	7	0			
1	Int. Dial	8	400 + 450		Continous	-6
2	Ext. Dial	9	350 + 440	1,2	Continous	-6
3	Special Dial	11	440 + 480		200/300/ <u>200</u> /300/ <u>200</u> / 800	-6
4	Ring	10	400 + 450		<u>400</u> /200/ <u>400</u> /2000	-11
5	Busy	0	425		<u>380</u> /380	-14,5
6	Override	1	1400		<u>200</u> /1500	-10
7	Camp On	-				
8	Number Unobtain- able	5	400		Cont.	-14,5
9	Data Call	-				
10	Pos. Acknowledge	2	520/400		<u>340/340</u> /800	-6
11	Congestion	4	425		<u>400</u> /360/ <u>220</u> /520	-6
12	Conference	-				
13	Ext. Dial 2 (simulated)	-				
14	Neg. Acknowledge	6	400/520		<u>340/340</u> /800	-6
15	RTO1-Test-World Wide	13	423	1 ¹	Dauer	-10
23		-				
24	Conference Aux.	3	1400		Continous	-10
25		•				
26	LCR Tone	12	1800		340/200/ <u>340</u> /200/ <u>340</u> / 1000	-3

The "RTO-Test World Wide" tone is used worldwide at the British embassies, which use the tone table in conjunction with the receiver table of the country concerned.

	Conference Tones									
	SIUCO SCC									
Date: 3	30/03/1993					Great B	ritain: LKZ = 7			
Co	onference	Ca	amp On	Night	t Camp On	(Override			
Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone			
2000	Conf. Aux.	100	Conf. Aux.	100	Conf. Aux.	Cont.	Override			
Cont.	Quiet	10000	Pause	100	Pause	-	-			
		100	Conf. Aux.	100	Conf. Aux.	-	-			
		Cont.	Quiet	10000	Pause					
				100	Conf. Aux.					
				100	Pause					
				100	Conf. Aux.					
			-	Cont.	Quiet	-	-			

Dial Tone Receiver (DTR)							
		SIU SIUCO	_				
Date: 13/09/1990			Great Britain: LKZ = 7				
		1st DTR and 2nd DTR	3rd DTR and 4th DTR				
Mode (filter selection)		7	7				
Type (time evaluation)		1	1				
Times type 1 (continuous tone / b	usy ton	e)					
Continuous tone min.	(T1)	600 ms	600 ms				
Pulse min.	(T2)	165 ms	165 ms				
Pulse max.	(T3)	500 ms	500 ms				
Pause min.	(T4)	270 ms	270 ms				
Pause max.	(T5)	650 ms	650 ms				
Times type 2 (internal dial tone /	busy tor	ne)					
Long pause	(T1)						
Pulse max. + pause max.	(T2)						
Times type 3 (2nd AWT Belgium, measurement pulse - pause - pulse)							

	Dial Tone	Receiver (DTR)			
		SIU	V3.1		
		SIUCO	V3.2		
Date: 13/09/1990	Great Britain:				
		1st DTR and 2nd DTR	3rd DTR and 4th DTR		
Pulse max. + pause max.	(T1)				
Pulse min.	(T2)				
Pause min.	(T3)				
Pulse max pulse min.	(T4)				
Pause max pause min.	(T5)				
Disconnect time	(T6)				

Great Britain

7.11 Greece

	Tone Table									
					SIU SIUCO					
Date:	16/02/1994				Greece: L	KZ = R				
TSL	Tone	TOG	Frequency Hz	RTO	Timing pulse / pause in ms	Level dBm0				
0	Idle Channel	7	0							
1	Int. Dial	0	425	2	200/300/200/300/200/ 800	-3				
2	Ext. Dial	1	425	1	<u>200</u> /300/ <u>700</u> /800	-3				
3	Special Dial	8	425 + 400		Continous	-3				
4	Ring	2	425		<u>1000</u> /4000	-3				
5	Busy	3	425		<u>160</u> /440	-3				
6	Override	4	425		<u>200</u> /300/ <u>200</u> /1300	-14				
7	Camp On	5	425		<u>100</u> /1900	-14				
8	Number Unobtain- able	11	950/1400/ 1800		<u>320/320/320</u> /960	-3				
9	Data Call	6	1300		<u>600</u> /1800	+1				
10	Pos. Acknowledge	-								
11	Congestion	-								
12	Conference	-								
13	Ext. Dial 2 (simulated)	-								
14	Neg. Acknowledge	-								
15	-	-								
23	-	-								
24	Conference Aux.	9	425		Continous	-14				
25	-	-								
26	LCR Tone		1800		340/200/ <u>340</u> /200/ <u>340</u> / 1000	-3				

Conference Tones								
	V3.2							
						SCC		
Date:	30/03/1993		Gree	ce (Fede	eral Republic	of Gern	nany): LKZ = 0	
Co	onference	Ca	amp On	Night	t Camp On		Override	
Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone	
200	Conf. Aux.	Cont.	Camp On	Cont.	Camp On	Cont.	Override	
300	Pause	-	-	-	-	-	-	
200	Conf. Aux.	-	-	-	-	-	-	
Cont.	Quiet							

Dial Tone Receiver (DTR)							
SIUCO V3.3+							
Date: 07/09/1993		Czech Repu	blic (Greece): LKZ = J				
		1st DTR and 2nd DTR	3rd DTR and 4th DTR				
Mode (filter selection)		4	4				
Type (time evaluation)		1	2				
Times type 1 (continuous tone / b	usy ton	e)					
Continuous tone min.	(T1)	450 ms					
Pulse min.	(T2)	140 ms					
Pulse max.	(T3)	180 ms					
Pause min.	(T4)	420 ms					
Pause max.	(T5)	460 ms					
Times type 2 (internal dial tone / I	ousy tor	ne)					
Long pause	(T1)		800 ms				
Pulse max. + pause max.	(T2)		1000 ms				
Times type 3 (2nd AWT Belgium,	measu	rement pulse - pause - p	ulse)				
Pulse max. + pause max.	(T1)						
Pulse min.	(T2)						
Pause min.	(T3)						
Pulse max pulse min.	(T4)						
Pause max pause min.	(T5)						

Dial Tone Receiver (DTR)						
SIUCO V3.3+						
Date: 07/09/1993		Czech Republic (Greece): LKZ = J				
		1st DTR and 2nd DTR	3rd DTR and 4th DTR			
Disconnect time	(T6)					

Greece

7.12 Commonwealth of Independent States (CIS)

Tone Table								
					SIUX	V3.4		
Date:	Date: 12.5.1997 CIS: LK							
TSL	Tone	TOG	Frequency Hz	RTO	Timing pulse / pause in ms	Level dBm0		
0	Idle Channel	-	0					
1	Int. Dial	8	425	1,2	Continuous	-10		
2	Special Dial	9	400 + 425		Continuous	-10		
3	Waiting (Warning back)	3	425		<u>200</u> /5000	-10		
4	Ring back	10	425		<u>1000</u> /4000	-10		
5	Busy	0	425		<u>360/</u> 360	-10		
6	Override	1	425		<u>240</u> /240/ <u>240</u> /1300	-15		
7	Warning = Camp On (Call waiting)	2	425		<u>200</u> /5000	-15		
8	Number Unobtainable	11	950/1400/ 1800		<u>340/340/340</u> /1000	-10		
9	Howler tone	5	1400/2060/ 2450		1000/1000/1000/1000	+0,66		
10	Pos. Acknowledge	-						
11	Congestion	6	425		<u>180</u> /180	-10		
12	Conference	-						
13	Checking tone	7	700		Continuous	-4		
14	Neg. Acknowledge	-						
15	-	_						
23	Alarm	-						
24	Conference Aux.	4	425		Continuous	-15		
25	-	-						
26	LCR Tone	12	1800		340/200/ <u>340</u> /200/ <u>340</u> / 1000	-10		

All acoustic signal levels sending during conversation should be minus 15 dBm0 +/-5 dBm0.

Conference Tones								
SIUX V3.4								
Date: 14/05/1996 CIS: LKZ =								
Co	onference	Ca	Camp On Night Camp On Override			Override		
Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone	
500	Conf.Aux	Cont.	Camp On	Cont.	Camp On	Cont.	Override	
Cont.	Quiet	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	
_	-	_	-	-	-	-	-	

Dial Tone Receiver (DTR)							
SIUX V3.3+							
Date: 10/1/1997			CIS: LKZ= 13				
		1st DTR and 2nd DTR	3rd DTR and 4th DTR				
Mode (filter selection)		С	С				
Type (time evaluation)		1	1				
Times type 1 (continuous tone / b	usy tone	e)					
Continuous tone min.	(T1)	800 ms	800 ms				
Pulse min.	(T2)	150 ms	150 ms				
Pulse max.	(T3)	500 ms	500 ms				
Pause min.	(T4)	100 ms	100 ms				
Pause max.	(T5)	500 ms	500 ms				
Times type 2 (internal dial tone / b	ousy ton	ie)					
Long pause	(T1)						
Pulse max. + pause max.	(T2)						
Times type 3 (2nd AWT Belgium,	measur	rement pulse - pause - p	ulse)				
Pulse max. + pause max.	(T1)						
Pulse min.	(T2)						
Pause min.	(T3)						
Pulse max pulse min.	(T4)						
Pause max pause min.	(T5)	_					

Dial Tone Receiver (DTR)						
SIUX V3.3+						
Date: 10/1/1997			CIS: LKZ= 13			
		1st DTR and 2nd DTR	3rd DTR and 4th DTR			
Disconnect time	(T6)					

Commonwealth of Independant States (CIS)

7.13 Hong Kong

	Tone Table								
	SIUX V3.4								
Date: 26/1/1994 Hong Kong: LKZ									
TSL	Tone	TOG	Frequency Hz	RTO	Timing pulse / pause in ms	Level dBm0			
0	Idle Channel	-	0						
1	Int. Dial	0	400		Continous	-9			
2	Ext. Dial	9	350 + 440		Cont.	-9			
3	Special Dial	6	400		<u>400</u> /40	-9			
4	Ring	10	440 + 480		<u>400</u> /200/ <u>400</u> /3000	-10			
5	Busy	11	480 + 620		<u>500</u> /500	-10			
6	Override	3	450		<u>200</u> /200/ <u>200</u> /600	-19			
7	Camp On	4	450		<u>400</u> /4000	-19			
8	Number Unobtain- able	8	480 + 620		Continous	-10			
9	Data Call	-							
10	Pos. Acknowledge	1	450	1,2	Continous	-9			
11	Congestion	7	450		<u>700</u> /700	-9			
12	Conference	-							
13	Ext. Dial 2 (simulated)	-							
14	Neg. Acknowledge	5	425		<u>200</u> /200	-9			
15	Für ersten Freiton	13	440 + 480		Dauer	-9			
23		•							
24	Conference Aux.	2	450		Continous	-19			
25	-	-							
26	LCR Tone		1800		340/200/ <u>340</u> /200/ <u>340</u> / 1000	-9			

Angaben sind Einzelton-Pegel. Bei den Doppeltönen ist das Summensignal 3 dB lauter.

	Conference Tones								
	V3.2								
						SCC	V3.3		
Datum: 26/01/1994 Hong Kong: LKZ =									
Co	onference	Ca	amp On	On Night Camp On Override			Override		
Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone		
200	Conf. Aux.	Cont.	Camp On	Cont.	Camp On	Cont.	Override		
300	Quiet	-	-	-	-	-	-		
200	Conf. Aux.	-	-	-	-	-	-		
Cont.	Quiet	-	-	-	-	-	-		

Dial Tone Receiver (DTR)							
SIUCO V3.3+							
Date: 27/01/1994			Hong Kong: LKZ = S				
		1st DTR and 2nd DTR	3rd DTR and 4th DTR				
Mode (filter selection)		7	7				
Type (time evaluation)		1	1				
Times type 1 (continuous tone / b	usy ton	e)					
Continuous tone min.	(T1)	900 ms	900 ms				
Pulse min.	(T2)	450 ms	450 ms				
Pulse max.	(T3)	770 ms	770 ms				
Pause min.	(T4)	450 ms	450 ms				
Pause max.	(T5)	770 ms	770 ms				
Times type 2 (internal dial tone / I	ousy ton	ne)					
Long pause	(T1)						
Pulse max. + pause max.	(T2)						
Times type 3 (2nd AWT Belgium,	measur	rement pulse - pause - p	ulse)				
Pulse max. + pause max.	(T1)						
Pulse min.	(T2)						
Pause min.	(T3)						
Pulse max pulse min.	(T4)						
Pause max pause min.	(T5)						

Dial Tone Receiver (DTR)							
SIUCO V3.3+							
Date: 27/01/1994			Hong Kong: LKZ = S				
		1st DTR and 2nd DTR	3rd DTR and 4th DTR				
Disconnect time	(T6)						

Hong Kong

7.14 Indonesia

Tone Table									
					SIU SIUCO	V3.1 V3.2			
Datum	Datum: 27/08/1993 Indonesia: LKZ =								
TSL	Ton Tone	TOG	Frequency Hz	RTO	Timing pulse / pause in ms	Level dBm0			
0	Idle Channel	-	0						
1	Int. Dial	8	350 + 450		Cont.	-5			
2	Ext. Dial	4	425	1,2	Cont.	-10			
3	Special Dial	11	425 + 400		Cont.	-5			
4	Ring	10	425		<u>1000</u> /4000	-10			
5	Busy	0	425		<u>500</u> /500	-10			
6	Override	1	425		<u>200</u> /300/ <u>200</u> /1300	-16			
7	Camp On	-							
8	Number Unobtain- able	5	950/1400/ 1800		<u>340</u> / <u>340</u> / <u>1000</u>	-10			
9	Data Call	-							
10	Pos. Acknowledge	2	425		<u>40</u> /40	-5			
11	Congestion	9	425		<u>250</u> /250	-10			
12	Conference	-							
13	Ext. Dial 2 (simulated)	-							
14	Neg. Acknowledge	6	425		<u>100</u> /200	-10			
15	-	-							
23	-	-							
24	Conference Aux.	3	425		Cont.	-16			
25	-	-							
26	LCR Tone		1800		340/200/ <u>340</u> /200/ <u>340</u> / 1000	-5			

	Conference Tones								
	V3.2								
						SCC	V3.3		
Date: 2	27/08/1993					Indo	nesia: LKZ = N		
Coi	nference	Ca	ımp On	Nigh	nt Camp On	(Override		
Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone		
1000	Ext. Dial	100	Ext. Dial	100	Ext. Dial	Cont.	Override		
Cont.	Quiet	10000	Pause	100	Pause				
		100	Ext. Dial	100	Ext. Dial				
		Cont.	Quiet	10000	Pause				
				100	Ext. Dial				
				100	Pause				
				100	Ext. Dial				
				Cont.	Quiet				

Dial Tone Receiver (DTR)								
SIUCO V3.3+								
Datum: 13/09/1990		China	a (Indonesia): LKZ = C					
		1st DTR and 2nd DTR	3rd DTR and 4th DTR					
Mode (filter selection)		4	4					
Type (time evaluation)		1	1					
Times type 1 (continuous tone / bus	y tone)							
Continuous tone min.	(T1)	900 ms	900 ms					
Pulse min.	(T2)	310 ms	310 ms					
Pulse max.	(T3)	770 ms	770 ms					
Pause min.	(T4)	310 ms	310 ms					
Pause max.	(T5)	770 ms	770 ms					
Times type 2 (internal dial tone / bus	sy tone)							
Long pause	(T1)							
Pulse max. + pause max. (T2)								
Times type 3 (2nd AWT Belgium, measurement pulse - pause - pulse)								
Pulse max. + pause max.	(T1)							

Dial Tone Receiver (DTR)								
	SIUCO V3.3+							
Datum: 13/09/1990 China (Indonesia): LKZ								
		1st DTR and 2nd DTR 3rd DTR and 4th DT						
Pulse min.	(T2)							
Pause min.	(T3)							
Pulse max pulse min.	(T4)							
Pause max pause min.	(T5)							
Disconnect time	(T6)							

Indonesia

7.15 India

Tone Table								
					SIU SIUCO	V3.3+ V3.4		
Date:	31/07/1995				India (GBR): I	KZ = 7		
TSL	Tone	TOG	Frequency Hz	RTO	Timing pulse / pause in ms	Level dBm0		
0	Idle Channel	7	0					
1	Int. Dial	8	400 + 450		Continous	-6		
2	Ext. Dial 1	9	350 + 440		Continous	-6		
3	Special Dial	11	440 + 480		200/300/ <u>200</u> /300/ <u>200</u> / 800	-6		
4	Ring Back	10	400 + 450		<u>400</u> /200/ <u>400</u> /2000	-11		
5	Busy	0	425		<u>380</u> /380	-14,5		
6	Override	1	1400		<u>200</u> /1500	-10		
7	Camp On	-						
8	Number Unobtain- able	5	400	1,2	Continous	-14,5		
9	Data Call	-						
10	Pos. Acknowledge	2	520/400		<u>340</u> / <u>340</u> /800	-6		
11	Congestion	4	425		<u>400</u> /360/ <u>220</u> /520	-6		
12	Conference	-						
13		-						
14	Neg. Acknowledge	6	400/520		<u>340/340</u> /800	-6		
15		-						
23		-						
24	Conference Aux.	3	1400		Continous	-10		
25		-						
26	LCR Tone	-						

	Conference Tones								
	SIUCO V3.2 SCC V3.3								
Date:	25/07/1995				I	ndia (GE	BR): LKZ = 7		
Co	nference	C	amp On	Nigh	nt Camp On	0	verride		
Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone		
2000	Conf. Aux.	100	Conf. Aux.	100	Conf. Aux.	Cont.	Override		
Cont.	Idle	10000	Idle	100	Idle	-	-		
		100	Conf. Aux.	100	Conf. Aux.	-	-		
		Cont.	Idle	10000	Pause				
				100	Conf. Aux.				
				100	Idle				
				100	Conf. Aux.				
			-	Cont.	Idle	-	-		

Dial Tone Receiver (DTR)							
			V3.3				
Date: 25/07/1995			India: LKZ = 11				
		1st DTR and 2nd DTR	3rd DTR and 4th DTR				
Mode (filter selection)		5	5				
Type (time evaluation)		1	1				
Times type 1 (continuous tone / b	usy ton	e)					
Continuous tone min.	(T1)	1000 ms	1000 ms				
Pulse min.	(T2)	150 ms	150 ms				
Pulse max.	(T3)	900 ms	900 ms				
Pause min.	(T4)	150 ms	150 ms				
Pause max.	(T5)	900 ms	900 ms				
Times type 2 (internal dial tone / b	ousy tor	ne)					
Long pause	(T1)						
Pulse max. + pause max. (T2)							
Times type 3 (2nd AWT Belgium, measurement pulse - pause - pulse)							
Pulse max. + pause max.	(T1)						

Dial Tone Receiver (DTR)							
V3.3							
Date: 25/07/1995			India: LKZ = 11				
		1st DTR and 2nd DTR	3rd DTR and 4th DTR				
Pulse min.	(T2)						
Pause min.	(T3)						
Pulse max pulse min.	(T4)						
Pause max pause min.	(T5)						
Disconnect time	(T6)						

India

7.16 Israel

Tone Table								
					SIUCO	V3.4		
Date:	7/2/1997				Israel: Li	KZ = 15		
TSL	Tone	TOG	Frequency Hz	RTO	Timing pulse / pause in ms	Level dBm0		
0	Idle Channel	-	0					
1	Int. Dial	10	400 + 450		Continuous	-6		
2	Ext. Dial	1	400	1,2	Continuous	-6		
3	Waiting (Warning back)	11	400 + 450		200/300/ <u>200</u> /300/ <u>200</u> / 800	-6		
4	Ring back	2	400		<u>1000</u> /3000	-6		
5	Busy	3	400		<u>500</u> /500	-6		
6	Override	8	400 + 450		<u>100</u> /1000	-10		
7	Camp On							
8	Number Unobtainable	4	950/1400/ 1800		<u>340/340/340</u> /1000	-6		
9	Data Call							
10	Pos. Acknowledge	9	400 + 450		<u>60</u> /40	-10		
11	Congestion	5	400		<u>260</u> /240	-6		
12	Conference							
13	-							
14	Neg. Acknowledge							
15	Test	6	800		Continuous	0		
23	-							
24	Conference Aux.	7	1400		Continuous	-10		
25	-							
26	LCR Tone	12	1800		340/200/ <u>340</u> /200/ <u>340</u> / 1000	-6		

Externe Dial Tone, Ring Back, Busy and Congestion are in accordance with frequencies of the CO.

DTMF level : fu = -7.2 dBm0; fo = -5.2 dBm0

	Conference Tones								
	SIUCO V3.4								
Datum	: 7/2/1997					Isra	el: LKZ = 15		
Co	nference	C	amp On	Nigh	nt Camp On	0	verride		
Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone		
200	Conf. Aux.	100	Conf. Aux.	100	Conf. Aux.	Cont.	Override		
Cont.	Silent	10000	Silent	100	Silent	-	-		
-	-	100	Conf. Aux.	100	Conf. Aux.	-	-		
-	-	Cont.	Silent	10000	Silent	-	-		
-	-	-	-	100	Conf. Aux.	-	-		
-	-	-	-	100	Silent	-	-		
-	-	-	-	100	Conf. Aux.	-	-		
-	-	-	-	Cont.	Silent	-	-		
-	-	-	-	-	-	-	-		

Dial Tone Receiver (DTR)								
SIUCO V3.4								
Date: 7/2/1997			Israel: LKZ = 15					
		1st DTR and 2nd DTR	3rd DTR and 4th DTR					
Mode (filter selection)		5	5					
Type (time evaluation)		1	1					
Times type 1 (continuous tone / k	ousy ton	e)						
Continuous tone min.	(T1)	650	650					
Pulse min.	(T2)	200	200					
Pulse max.	(T3)	600	600					
Pause min.	(T4)	200	200					
Pause max.	(T5)	600	600					
Times type 2 (internal dial tone /	busy tor	ne)						
Long pause	(T1)							
Pulse max. + pause max.								
Times type 3 (2nd AWT Belgium,	measu	rement pulse - pause - p	ulse)					

Dial Tone Receiver (DTR)					
SIUCO V3.4					
Date: 7/2/1997			Israel: LKZ = 15		
		1st DTR and 2nd DTR	3rd DTR and 4th DTR		
Pulse max. + pause max.	(T1)				
Pulse min.	(T2)				
Pause min.	(T3)				
Pulse max pulse min.	(T4)				
Pause max pause min.	(T5)				
Disconnect time	(T6)				

Israel

7.17 Italy

			Tone Table	<u> </u>		
					SIUCO SIUCX	
Date:	06/06/1996				Italy: L	KZ = D
TSL	Tone	TOG	Frequency Hz	RTO	Timing pulse / pause in ms	Level dBm0
0	Idle Channel	-	0			
1	Int. Dial	10	350 + 425		Continuous	-6
2	Ext. Dial	0	425		<u>200</u> /200/ <u>600</u> /1000	-6
3	Special Dial ENEL Dial BASA Busy	11	425	1	Continuous	-6
4	Ring Back	1	425		<u>1000</u> /4000	-6
5	Busy	2	425	2	<u>500</u> /500	-6
6	Override	3	425		<u>200</u> /200/ <u>200</u> /1400	-11
7	Camp On	4	425		<u>100</u> /4900	-11
8	BASA Intern Dial	12	425		200/200/ <u>200</u> /200/ <u>200</u> / 1000	-6
9	BASA + ENEL Hold	13	425		<u>200</u> /200/ <u>200</u> /3400	-6
10	Pos. Acknowledge	8	425		100/100/100/100/ 1500	6
11	Congestion	6	425		<u>200</u> /200	-6
12	Conference	7	425		<u>200</u> /9800	-11
13	-	-				
14	-	-				
15	-	-				
23	Reorder	9	425		<u>100</u> /100	-6
24	Conference Aux.	5	425		Continuous	-11
25	-	-				
26	LCR Tone	14	1800		340/200/ <u>340</u> /200/ <u>340</u> / 1000	-6

Basa Internal Dial, Hold and LCR are not generated on the hardware of SIUCO, but only on the SIUX and SIUCX of $V3.4\,$

	Conference Tones						
SIUCO V3.2							V3.2
SCC V3.3							V3.3
Date: 30/03/1993 Italy: LKZ = D							
Co	onference	ference Camp On Night Camp O		Night Camp On Override			
Time (ms)	Ton Tone	Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone
200	Conf. Aux.	Cont.	Camp On	Cont.	Camp On	Cont.	Override
Cont.	Conf. Aux.	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	ı	-	-	-

Dial Tone Receiver (DTR)					
		SIUCO	V3.3+		
Date: 13/09/1990	Italy: LKZ =				
		1st DTR and 2nd DTR	3rd DTR and 4th DTR		
Mode (filter selection)		1	6		
Type (time evaluation)		1	1		
Times type 1 (continuous tone / bus	y tone)				
Continuous tone min.	(T1)	520 ms	520 ms		
Pulse min.	(T2)	480 ms	480 ms		
Pulse max.	(T3)	500 ms	500 ms		
Pause min.	(T4)	480 ms	480 ms		
Pause max.	(T5)	500 ms	500 ms		
Times type 2 (internal dial tone / bus	sy tone)				
Long pause	(T1)				
Pulse max. + pause max.	(T2)				
Times type 3 (2nd AWT Belgium, m	easuren	nent pulse - pause - puls	e)		
Pulse max. + pause max.	(T1)				
Pulse min.	(T2)				
Pause min.	(T3)				
Pulse max pulse min.	(T4)				
Pause max pause min.	(T5)				

Dial Tone Receiver (DTR)				
SIUCO V3.3+				
Date: 13/09/1990			Italy: LKZ = D	
		1st DTR and 2nd DTR	3rd DTR and 4th DTR	
Disconnect time	(T6)			

Italy

7.18 Japan

	Tone Table					
					SIUX	V3.5
Date:	: 16.9.1997				Japan: Li	KZ = 18
TSL	Tone	TOG	Frequency Hz	RTO	Timing pulse / pause in ms	Level dBm0
0	Idle Channel	-	0			
1	Int. Dial	0	400		260/240/ <u>260</u> /240/ <u>260</u> / 800	-10
2	Ext. Dial	1	400	1	Continuous	-10
3	Special Dial	8	390 + 410		Continuous	-10
4	Ring Back	2	390 + 410		<u>1000/</u> 2000	-10
5	Busy	3	400		<u>500</u> /500	-10
6	Override	4	400		<u>200</u> /300/ <u>200</u> /1300	-20
7	Camp On	5	400		<u>100</u> /1900	-20
8	Number Unobtainable	11	950/1400/ 1800		<u>320/320/320</u> /960	-10
9	Data Call	6	1300		<u>600</u> /1800	-10
10	Pos. Acknowledge	-				
11	Congestion	-				
12	Conference	-				
13	Ext. Dial 2 (simulated)	-				
14	Neg. Acknowledge	-				
15	-	-				
23		-				
24	Conference Aux.	9	400		Continuous	-20
25	-	-				
26	LCR Tone	12	1800		340/200/ <u>340</u> /200/ <u>340</u> / 1000	-10

	Conference Tones						
	SIUX V3.5						
Date:	Date: 15.9.1997 Japan: LKZ = 1						pan: LKZ = 18
Co	onference	Ca	amp On	Night	t Camp On		Override
Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone
200	Conf. Aux.	Cont.	Camp On	Cont.	Camp On	Cont.	Override
300	Pause	-	-	-	-	-	-
200	Conf. Aux.	-	-	-	-	-	-
Cont.	Quiet	-	-	-	-	-	-

DTMF levels: -5.2 / -7.2 dBm0 (High/Low group)

The tone plan has not yet been assessed by the licensing authority, but only planning for development for the loadware.

Dial Tone Receiver (DTR)					
		SIUX	V3.5		
Date: 16/9/1997	Japan: LKZ = 18				
		1st DTR and 2nd DTR	3rd DTR and 4th DTR		
Mode (filter selection)		5	5		
Type (time evaluation)		1	1		
Times type 1 (continuous tone / b	usy ton	e)			
Continuous tone min.	(T1)	700 ms	700 ms		
Pulse min.	(T2)	400 ms	400 ms		
Pulse max.	(T3)	600 ms	600 ms		
Pause min.	(T4)	400 ms	400 ms		
Pause max.	(T5)	600 ms	600 ms		
Times type 2 (internal dial tone / I	ousy tor	ne)			
Long pause	(T1)				
Pulse max. + pause max.	(T2)				
Times type 3 (2nd AWT Belgium,	measu	rement pulse - pause - p	ulse)		
Pulse max. + pause max.	(T1)				
Pulse min.	(T2)				

Dial Tone Receiver (DTR)					
	SIUX V3.5				
Date: 16/9/1997			Japan: LKZ = 18		
		1st DTR and 2nd DTR	3rd DTR and 4th DTR		
Pause min.	(T3)				
Pulse max pulse min.	(T4)				
Pause max pause min.	(T5)				
Disconnect time	(T6)				

Japan

7.19 Cameroon

Tone Table	
SIU	V3.3+
SIUCO	V3.3+
SICOE	V3.5

Date:	10/10/1996				Cameroon: Li	Z = 14
TSL	Tone	TOG	Frequency Hz	RTO	Timing <u>pulse</u> / pause in ms	Level dBm0
0	Idle Channel	-	0		Continuous	
1	Int. Dial	9	425	1	Continuous	-6
2	Ring- and Dial Tone	7	600		Continuous	-6
3	Special Dial	8	425 / 425+340		<u>1100</u> /1100	-2.9
4	Ring Back	2	425		<u>1000</u> /4000	-6
5	Busy	3	425	2	<u>500</u> /500	-6
6	Override	4	1400		<u>200</u> /2000	-13.5
7	Camp On	5	425		<u>200</u> /200/ <u>200</u> /4000	-13.5
8	Number Unobtain- able	11	950/1400/ 1800		<u>340/340/340</u> /1000	-6
9	Data Call	6	1300		<u>600</u> /1800	-1
10	Pos. Acknowledge	-				
11	Congestion	10	425		<u>200</u> /200	-6
12	Conference	-				
13	-	-				
14	-	-				
15	-	-				
23	Busy 2	1	600		<u>500</u> /500	-6
24	Conference Aux.	0	425		Continuous	-13.5
25	-	-				
26	LCR Tone	12	1800		340/200/ <u>340</u> /200/ <u>340</u> / 1000	-6

RTO tests:

RTO-	RTO-Test:					
1	Continuous tone, suitable for testing the dial tone receiver and for loopback testing of trunk and SLMA					
2	Cadenced tone for testing the busy tone receiver					

	Conference Tones												
SIUCO V3.3+ SICOE V3.5													
Date:	10/10/1996					Came	roon: LKZ = 14						
Co	onference	Ca	amp On	Night	t Camp On	Override							
Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone						
200	Conf. Aux.	Cont.	Camp On	Cont.	Camp On	Cont.	Override						
2000	Idle Channel	-	-	-	-	-	-						
200	Conf. Aux.	-	-	-	-	-	-						
Cont.	Idle Channel	-	-	-	-	-	-						

Dial Tone Receiver (DTR)									
		SIU SIUCO SICOE							
Date: 10/10/1996			Cameroon: LKZ = 14						
		1st DTR and 2nd DTR	3rd DTR and 4th DTR						
Mode (filter selection)		4	4						
Type (time evaluation)		1	1						
Times type 1 (continuous tone /	busy ton	e)							
Continuous tone min.	(T1)	800 ms	800 ms						
Pulse min.	(T2)	300 ms	300 ms						
Pulse max.	(T3)	700 ms	700 ms						
Pause min.	(T4)	300 ms	300 ms						
Pause max.	(T5)	700 ms	700 ms						
Times type 2 (internal dial tone /	busy tor	ne)							
Long pause	(T1)								

Dial Tone Receiver (DTR)									
		SIU	V3.3+						
		SIUCO							
		SICOE	V3.5						
Date: 10/10/1996			Cameroon: LKZ = 14						
		1st DTR and 2nd DTR	3rd DTR and 4th DTR						
Pulse max. + pause max.	(T2)								
Times type 3 (2nd AWT Belgiu	m, measu	rement pulse - pause - p	ulse)						
Pulse max. + pause max.	(T1)								
Pulse min.	(T2)								
Pause min.	(T3)								
Pulse max pulse min.	(T4)								
Pause max pause min.	(T5)								
Disconnect time	(T6)								

Cameroon

7.20 Corea

	Tone Table										
					SIUX	V3.4					
Versio	n: 14.5.1997				South Corea: Li	KZ = 16					
TSL	Tone	TOG	Frequency Hz	RTO	Timing pulse / pause in ms	Level dBm0					
0	Idle Channel	-	0								
1	Int. Dial	0	350 + 440		<u>1000</u> / 260	-10					
2	Ext. Dial 1	1	350 + 440	1,2	Continuous	-10					
3	Special Dial		-								
4	Ring back	2	440 + 480		<u>1000</u> / 2000	-15					
5	Busy	3	480 + 620		<u>500</u> / 500	-15					
6	Intrusion	4	440		<u>260</u> / 14 000	-20					
7	Camp On	5	440 + 480		200 / 2000	-20					
8	Number Unobtain- able		-								
9	Data Call		-								
10	Pos. Acknowledge		-								
11	Congestion	6	480 + 620		<u>300</u> / 200	-15					
12	Conference		-								
13	-		-								
14	Neg. Acknowledge		-								
15	First Ring	7	440 + 480		Continuous	-15					
23	Test Tone	10	1014		Continuous	0					
24	Conference Aux.	8	440		Continuous	-20					
25	-		-								
26	LCR Tone	9	1800		340/200/ <u>340</u> /200/ <u>340</u> / 1000	-15					

This version is not yet approved by the customer

	Conference Tones											
	SIUX V3.4											
Datum	Datum: 18.7.1996 South Corea: LKZ = 16											
Co	Conference		Camp On		Night Subscriber Override Camp On							
Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone					
500	Conf.Aux	Cont.	Camp On	Cont.	Camp On	500	Conf. Aux.					
Cont.	Quiet	-	-	-	-	6000	Quiet					
-	-	-	-	-	-	Cont.	Override					
-	-	-	-	-	-	-	-					

Dial Tone Receiver (DTR)									
Date: 18.7.1996		South Corea: LKZ = 16							
		1st DTR and 2nd DTR	3rd DTR and 4th DTR						
Mode (filter selection)		2	2						
Type (time evaluation)	valuation) 1 1								
Times type 1 (continuous tone / b	usy ton	e)							
Continuous tone min.	(T1)	800 ms	800 ms						
Pulse min.	(T2)	160 ms	160 ms						
Pulse max.	(T3)	760ms	760 ms						
Pause min.	(T4)	160ms	160 ms						
Pause max.	(T5)	760ms	760 ms						

7.21 Malaysia

			Tone Table	•		
					SIU SIUCO	V3.1 V3.2
Date:	03/08/1993				Malaysia: L	KZ = E
TSL	Tone	TOG	Frequency Hz	RTO	Timing pulse / pause in ms	Level dBm0
0	Idle Channel	-	0			
1	Int. Dial	0	425	2	Continous	-5
2	Ext. Dial	9	425	1	Continous	-7
3	Special Dial	8	425 + 400		Continous	-5
4	Ring	2	425		<u>400</u> /200/ <u>400</u> /2000	-10
5	Busy	3	425		<u>500</u> /500	-10
6	Override	4	425		<u>200</u> /200/ <u>200</u> /5000	-16
7	Camp On	-				
8	Number Unobtainable	5	425		<u>2500</u> /500	-10
9	Data Call	-				
10	Pos. Acknowledge	11	425		<u>40</u> /40	-5
11	Congestion	1	425		<u>500</u> /250	-10
12	Conference	6	425		Continous	-10
13	Ext. Dial 2 (simulated)	-				
14	Neg. Acknowledge	7	425		<u>100</u> /200	-10
15	-	-				
23	-	-				
24	Conference Aux.	10	425		Continous	-16
25	-	-				
26	LCR Tone	-	1800		340/200/ <u>340</u> /200/ <u>340</u> / 1000	-7

	Conference Tones											
						SIUCO	V3.2 V3.3					
Date: (03/08/1993					Mal	aysia: LKZ = E					
Co	onference	Ca	amp On	Night	t Camp On	(Override					
Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone					
1000	Conference	100	Conference	100	Conference	200	Conf. Aux.					
Cont.	Quiet	10000	Idle Chan- nel	100	Idle Chan- nel	200	Idle Channel					
		100	Conference	100	Conference	200	Conf. Aux.					
		Cont.	Quiet	10000	Idle Chan- nel	Cont.	Override					
				100	Conference							
				100	Idle Chan- nel							
				100	Conference							
				Cont.	Quiet		-					

Dial Tone Receiver (DTR)										
SIUCO V3.3+										
Date: 13/09/1990	China (Malaysia): LKZ = C									
		1st DTR and 2nd DTR	3rd DTR and 4th DTR							
Mode (filter selection)		4	4							
Type (time evaluation)		1	1							
Times type 1 (continuous tone / b	usy ton	e)								
Continuous tone min.	(T1)	900 ms	900 ms							
Pulse min.	(T2)	310 ms	310 ms							
Pulse max.	(T3)	770 ms	770 ms							
Pause min.	(T4)	310 ms	310 ms							
Pause max.	(T5)	770 ms	770 ms							
Times type 2 (internal dial tone /	Times type 2 (internal dial tone / busy tone)									
Long pause	(T1)									

Dial Tone Receiver (DTR)								
SIUCO V3.3+								
Date: 13/09/1990	China (Malaysia): LKZ = C							
		1st DTR and 2nd DTR	3rd DTR and 4th DTR					
Pulse max. + pause max.	(T2)							
Times type 3 (2nd AWT Belgium	measu	rement pulse - pause - p	ulse)					
Pulse max. + pause max.	(T1)							
Pulse min.	(T2)							
Pause min.	(T3)							
Pulse max pulse min.	(T4)							
Pause max pause min.	(T5)							
Disconnect time	(T6)							

Malaysia

7.22 Morocco

	Tone Table										
						V3.1					
					SIUCO						
	20/06/1994		T		Morocco: L	ı					
TSL	Tone	TOG	Frequency Hz	RTO	Timing pulse / pause in ms	Level dBm0					
0	Idle Channel	-	0								
1	Int. Dial	0	330		Continuous	-8					
2	Ext. Dial	1	440	1	Continuous	-11					
3	Special Dial	8	440 / 440+330		<u>750</u> /750	-8/-11					
4	Ring	2	440		<u>1500</u> /3500	-11					
5	Busy	3	440		<u>500</u> /500	-11					
6	Override	4	440		<u>200</u> /200/ <u>200</u> /1400	-11					
7	Camp On	5	440		300/30000	-11					
8	Number Unobtain- able	11	440/330/ 440		<u>350/350/350</u> /500	-11					
9	Data Call	-									
10	Pos. Acknowledge	6	330		<u>50</u> /50	-8					
11	Congestion	-									
12	Conference	-									
13	Ext. Dial 2 (simulated)	9	600	2	Continuous	-6					
14	Neg. Acknowledge	-									
15	Test	7/10	800		Continuous	-2					
23		-									
24	Conference Aux.	10/7	440		Continuous	-11					
25	-	-									
26	LCR Tone	-	1800		340/200/ <u>340</u> /200/ <u>340</u> / 1000						

	Conference Tones											
	SIUCO V3.2											
						SCC	V3.3					
Date: (06/07/1994					Mor	occo: LKZ = T					
Co	onference	Ca	amp On	Night	Night Camp On Override							
Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone					
200	Conf. Aux.	300	Ext. Dial	300	Ext. Dial	Cont.	Override					
300	Pause	1000	Pause	1000	Pause	-	-					
200	Conf. Aux.	Cont.	Camp On	Cont.	Camp On	-	-					
Cont.	Quiet	-	-	-	-	-	-					

Dial Tone Receiver (DTR)							
		SIUCO	V3.3+				
Date: 17/05/1994			Morocco: LKZ = T				
		1st DTR and 2nd DTR	3rd DTR and 4th DTR				
Mode (filter selection)		1	2, 9				
Type (time evaluation)		1	1				
Times type 1 (continuous tone	/ busy ton	e)					
Continuous tone min.	(T1)	1200 ms	200 ms				
Pulse min.	(T2)	400 ms	80 ms				
Pulse max.	(T3)	600 ms	100 ms				
Pause min.	(T4)	400 ms	80 ms				
Pause max.	(T5)	600 ms	1200 ms				
Times type 2 (internal dial tone	/ busy tor	ne)					
Long pause	(T1)						
Pulse max. + pause max.	(T2)						
Times type 3 (2nd AWT Belgiu	m, measu	rement pulse - pause - p	ulse)				
Pulse max. + pause max.	(T1)						
Pulse min.	(T2)						
Pause min.	(T3)						
Pulse max pulse min.	(T4)						
Pause max pause min.	(T5)						

Dial Tone Receiver (DTR)						
SIUCO V3.3+						
Date: 17/05/1994	Morocco: LKZ = T					
		1st DTR and 2nd DTR	3rd DTR and 4th DTR			
Disconnect time	(T6)					

HZE Mode 2 for SIU, HZE Mode 9 for SIUCO, SIUX etc.

Morocco

7.23 Mexico

Tone Table								
					SIU SIUCO	V3.1 V3.2		
Date:	27/08/1993				Mexico: L	KZ = G		
TSL	Tone	TOG	Frequency Hz	RTO	Timing pulse / pause in ms	Level dBm0		
0	Idle Channel	7	0					
1	Int. Dial	9	425	1,2	Continous	-10		
2	Ext. Dial	-						
3	Special Dial	8	425		<u>1400</u> /100	-10		
4	Ring	2	425		<u>1000</u> /400	-10		
5	Busy	3	425		<u>250</u> /250	-10		
6	Override	4	1400		<u>200</u> /2000	-13,5		
7	Camp On	5	425		<u>160</u> /140/ <u>160</u> /4000	-15		
8	Number Unobtainable	11	950/1400/ 1800		<u>340/340/340</u> /1000	-10		
9	Data Call	6	1300		<u>600</u> /1800	-1		
10	Pos. Acknowledge	-						
11	Congestion	-						
12	Conference	-						
13	Ext. Dial 2 (simulated)	10						
14	Neg. Acknowledge	-						
15	-	-						
23	Conference Aux. 2	1	1400		Continous	-13,5		
24	Conference Aux.	0	425		Continous	-15		
25	-	-						
26	LCR Tone	-	1800		340/200/ <u>340</u> /200/ <u>340</u> / 1000			

	Conference Tones									
	SIUCO V3.2									
						SCC	V3.3			
Date: 30/03/1993 Mexico: LKZ										
Co	onference	Ca	amp On	ımp On Night Camp On			Override			
Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone			
200	Conf. Aux. 2	Cont.	Camp On	Cont.	Camp On	Cont.	Override			
2000	Pause									
200	Conf. Aux. 2									
Cont.	Quiet									

Dial Tone Receiver (DTR)								
SIUCO V3.3+								
Date: 22/07/1991		Mexi	co (Portugal): LKZ = 9					
		1st DTR and 2nd DTR	3rd DTR and 4th DTR					
Mode (filter selection)		1	7					
Type (time evaluation)		1	1					
Times type 1 (continuous tone / b	usy ton	e)						
Continuous tone min.	(T1)	1200 ms	1200 ms					
Pulse min.	(T2)	120 ms	120 ms					
Pulse max.	(T3)	600 ms	600 ms					
Pause min.	(T4)	200 ms	200 ms					
Pause max.	(T5)	600 ms	600 ms					
Times type 2 (internal dial tone / I	ousy ton	ne)						
Long pause	(T1)							
Pulse max. + pause max.	(T2)							
Times type 3 (2nd AWT Belgium,	measur	rement pulse - pause - p	ulse)					
Pulse max. + pause max.	(T1)							
Pulse min.	(T2)							
Pause min.	(T3)							
Pulse max pulse min.	(T4)							
Pause max pause min.	(T5)							

Dial Tone Receiver (DTR)						
SIUCO V3.3+						
Date: 22/07/1991	Mexico (Portugal): LKZ = 9					
		1st DTR and 2nd DTR	3rd DTR and 4th DTR			
Disconnect time	(T6)					

Mexico

7.24 Netherlands

			Tone Table	•		
					SIU SIUCO	V3.4 V3.4
Date:	22/04/1996				Netherlands: L	KZ = B
TSL	Tone	TOG	Frequency Hz	RTO	Timing pulse / pause in ms	Level dBm0
0	Idle Channel	7	0			
1	Int. Dial	0	425	2	Continous	-3
2	Ext. Dial	9	150 + 450	1	Continous	-3
3	Special Dial	8	425 + 400		Continous	-3
4	Ring	2	425		<u>1000</u> /4000	-3
5	Busy	3	425		<u>500</u> /500	-3
6	Override	4	425		200/300/200/1300	-14
7	Camp On	5	425		<u>100</u> /1900	-14
8	Umber Unobtain- able	11	950/1400/ 1800		<u>340</u> / <u>340</u> / <u>1000</u>	-3
9	Data Call	10	1300		<u>600</u> /1800	+0,66
10	Pos. Acknowledge	-				
11	Congestion	1	425		<u>250</u> /250	-3
12	Conference	-				
13	Ext. Dial 2 (simulated)	-				
14	Neg. Acknowledge	-				
15	-	-				
23	Alarm	-				
24	Conference Aux.	6	425		Continous	-14
25	-	-				
26	LCR Tone	12	1800		340/200/ <u>340</u> /200/ <u>340</u> / 1000	-3

Conference Tones									
	SIUCO V3.2								
						SCC	V3.3		
Date: 30/03/1993 Netherlands: LKZ =									
Co	onference	Ca	Camp On		On Night Camp On Override				
Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone		
200	Conf. Aux.	Cont.	Camp On	Cont.	Camp On	Cont.	Override		
300	Pause	-	-	-	-	-	-		
200	Conf. Aux.	-	-	-	-	-	-		
Cont.	Quiet	-	-	-	-	-	-		

Dial Tone Receiver (DTR)							
		SIUCO	V3.3+				
Date: 13/09/1990			Netherlands: LKZ = B				
		2st DTR and 2nd DTR	3rd DTR and 4th DTR				
Mode (filter selection)		6	1				
Type (time evaluation)		1	1				
Times type 1 (continuous tone / b	usy ton	e)					
Continuous tone min.	(T1)	1020 ms	1020 ms				
Pulse min.	(T2)	180 ms	180 ms				
Pulse max.	(T3)	600 ms	600 ms				
Pause min.	(T4)	160 ms	160 ms				
Pause max.	(T5)	620 ms	620 ms				
Times type 2 (internal dial tone / b	ousy tor	ne)					
Long pause	(T1)						
Pulse max. + pause max.	(T2)						
Times type 3 (2nd AWT Belgium,	measu	rement pulse - pause - p	ulse)				
Pulse max. + pause max.	(T1)						
Pulse min.	(T2)						
Pause min.	(T3)						
Pulse max pulse min.	(T4)						
Pause max pause min.	(T5)						

Dial Tone Receiver (DTR)						
SIUCO V3.3+						
Date: 13/09/1990		Netherlands: LKZ = B				
		2st DTR and 2nd DTR	3rd DTR and 4th DTR			
Disconnect time	(T6)					

Netherlands

7.25 Austria

	Tone Table							
					SIU SIUCO	V3.1		
Date: 2	28/10/1994				Austria: L	L		
TSL	Tone	TOG	Frequency Hz	RTO	Timing pulse in ms	Level dBm0		
0	Idle Channel	-	0					
1	Int. Dial	0	425	2	200/300/ <u>200</u> /300/ <u>200</u> / 800	-3,4		
2	Ext. Dial	1	425	1	Continous	-3,4		
3	Special Dial	8	425 + 400		Continous	-3,4		
4	Ring	2	425		<u>1000</u> /4000	-3,4		
5	Busy	3	425		<u>300</u> /300	-3,4		
6	Override	4	425		<u>200</u> /300/ <u>200</u> /1300	-10,4		
7	Camp On	5	425		<u>100</u> /1900	-8,4		
8	Number Unobtain- able	11	950/1400/ 1800		<u>320/320/320</u> /960	-3,4		
9	Data Call	6/10	1300		<u>600</u> /1800	-0,4		
10	Pos. Acknowledge	-						
11	Congestion	-						
12	Conference	-						
13	Ext. Dial 2 (simulated)	-						
14	Neg. Acknowledge	-						
15	Test Tone (only for CIS)	7	700		Continous	-4,0		
23	Conf. Aux. 2	10/6	425		Continous	-10,4		
24	Conf. Aux.	9	425		Continous	-8,4		
25	-	-						
26	LCR Tone							

	Conference Tones									
	SIUCO V3.2									
						SCC	V3.3			
Date:	Date: 30/03/1993 Austria: LKZ									
Co	onference	Ca	amp On	Night	Night Camp On Override					
Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone			
200	Conf. Aux. 2	Cont.	Camp On	Cont.	Camp On	Cont.	Override			
300	Pause	-	-	-	-	-	-			
200	Conf. Aux. 2	-	-	-	-	-	-			
Cont.	Quiet	-	-	-	-	-	-			

Dial Tone Receiver (DTR)					
		SIUCO	V3.3+		
Date: 30/03/1995		Austria: LKZ = 1			
		1st DTR and 2nd DTR	3rd DTR and 4th DTR		
Mode (filter selection)		4	4		
Type (time evaluation)		1	2		
Times type 1 (continuous tone / busy tone)					
Continuous tone min.	(T1)	500 ms			
Pulse min.	(T2)	100 ms			
Pulse max.	(T3)	150 ms			
Pause min.	(T4)	100 ms			
Pause max.	(T5)	150 ms			
Times type 2 (internal dial tone / busy tone)					
Long pause	(T1)		800 ms		
Pulse max. + pause max.	(T2)		1200 ms		
Times type 3 (2nd AWT Belgium, measurement pulse - pause - pulse)					
Pulse max. + pause max.	(T1)				
Pulse min.	(T2)				
Pause min.	(T3)				
Pulse max pulse min.	(T4)				
Pause max pause min.	(T5)				

Dial Tone Receiver (DTR)					
SIUCO V3.3+					
Date: 30/03/1995			Austria: LKZ = 1		
		1st DTR and 2nd DTR	3rd DTR and 4th DTR		
Disconnect time	(T6)				

Austria

7.26 Oman

Tone Table								
					SIU SIUCO	V3.3+ V3.3+		
Date: 1	17/11/1995				Oman: Li	KZ = 12		
TSL	Tone	TOG	Frequency Hz	RTO	Timing pulse / pause in ms	Level dBm0		
0	Idle Channel	-	0					
1	Int. Dial	9	350 + 440		Continuous	-13		
2	Ext. Dial 1	5	425	1.2	Continuous	-5		
3	Operator Call	4	440		Continuous	-13		
4	Ring	10	400 + 480		<u>1000</u> /2000	-17		
5	Busy	11	480 + 620		<u>500</u> /500	-22		
6	Intrusion	6	440		<u>260</u> /14000	-24		
7	Service Set	0	480		Continuous	-24		
8	Number Unobtain- able	1	425		<u>200</u> /300	-13		
9	Data Call	-						
10	Pos. Acknowledge	-						
11	Congestion	8	480 + 620		<u>240</u> /260	-24		
12	Conference	-						
13	Message Waiting	2	440		<u>1240</u> /260	-13		
14	Neg. Acknowledge	-						
15	-	-						
23	Alarm	-						
24	Conference Aux.	7	440		Continuous	-24		
25	-	-						
26	LCR Tone	12	1800		340/200/ <u>340</u> /200/ <u>340</u> / 1000	-13		

Conference Tones								
						SIUCO	V3.3+	
						SIU	V3.3+	
Date:	17/11/1995					0	man: LKZ = 12	
Co	onference	Camp On		On Night Camp On Override			Override	
Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone	
500	Conf. Aux.	100	Conf. Aux.	-	-	500	Conf. Aux.	
Cont.	Quiet	10000	Quiet	-	-	6000	Quiet	
-	-	100	Conf. Aux.	-	-	Cont.	Override	
-	-	Cont.	Quiet	-	-	-	-	



Note

DTMF: DTMF tones for Oman are set to LKZ=5 with AMO-ZAND command.

Dial Tone Receiver (DTR)							
SIUCO V3.3+							
Date: 13/09/1990		0	man (China): LKZ = C				
		1st DTR and 2nd DTR	3rd DTR and 4th DTR				
Mode (filter selection)		4	4				
Type (time evaluation)		1	1				
Times type 1 (continuous tone / b	usy ton	e)					
Continuous tone min.	(T1)	900 ms	900 ms				
Pulse min.	(T2)	310 ms	310 ms				
Pulse max.	(T3)	770 ms	770 ms				
Pause min.	(T4)	310 ms	310 ms				
Pause max.	(T5)	770 ms	770 ms				
Times type 2 (internal dial tone / b	ousy tor	ne)					
Long pause	(T1)						
Pulse max. + pause max.	(T2)						
Times type 3 (2nd AWT Belgium,	Times type 3 (2nd AWT Belgium, measurement pulse - pause - pulse)						
Pulse max. + pause max.	(T1)						

Dial Tone Receiver (DTR)								
	SIUCO V3.3+							
Date: 13/09/1990		Oman (China): LKZ = 0						
		1st DTR and 2nd DTR	3rd DTR and 4th DTR					
Pulse min.	(T2)							
Pause min.	(T3)							
Pulse max pulse min.	(T4)							
Pause max pause min.	(T5)							
Disconnect time	(T6)							

Oman

7.27 Pakistan

Dial Tone Receiver (DTR)							
SIUCO V3.5							
Date: 11.5.1998			Pakistan: LKZ = 28				
		1st DTR und 2nd DTR	3rd DTR und 4th DTR				
Mode (filter selection)		D	D				
Type (time evaluation)		1	1				
Times type 1 (continuous tone / b	ousy tone	e)					
Continuous tone min.	(T1)	600 ms	600 ms				
Pulse min.	(T2)	225 ms	225 ms				
Pulse max.	(T3)	330 ms	330 ms				
Pause min.	(T4)	315 ms	315 ms				
Pause max.	(T5)	880 ms	880 ms				
Times type 2 (internal dial tone /	busy ton	e)					
Long pause	(T1)						
Pulse max. + pause max.	(T2)						
Times type 3 (2nd AWT Belgium	measur	rement pulse - pause - p	ulse)				
Pulse max. + pause max.	(T1)						
Pulse min.	(T2)						
Pause min.	(T3)						
Pulse max pulse min.	(T4)						
Pause max pause min.	(T5)						
Disconnect time	(T6)						



Note concerning RTO tests:

In Pakistan the tone table LKZ=0 (BRD) is in use. There are two RTO tests recommended. But for this receiver table with LKZ=28 (PAK) install **only** test 1.

Pakistan

7.28 Philippines

Tone Table								
					SIU SIUCO	V3.1 V3.2		
Date:	15.5.1997				Philippines: L	KZ = P		
TSL	Tone	TOG	Frequency Hz	RTO	Timing pulse / pause in ms	Level dBm0		
0	Idle Channel	-	0					
1	Int. Dial	8	400 + 450		Continous	-7		
2	Ext. Dial	4	425	1	Continous	-10		
3	Special Dial	11	425 + 480		Continous	-5		
4	Ring	10	425 + 480		<u>1000</u> /4000	-5		
5	Busy	0	400		<u>500</u> /500	-10		
6	Override	1	425		<u>200</u> /300/ <u>200</u> /1300	-16		
7	Camp On	-						
8	Number Unobtain- able	5	950/1400/ 1800		<u>340</u> / <u>340</u> / <u>340</u> /1000	-10		
9	Data Call	-						
10	Pos. Acknowledge	2	425		<u>1000</u> /4000	-5		
11	Congestion	9	480 + 620		<u>240</u> /260	-10		
12	Conference	-						
13	Ext. Dial 2 (simulated)	-						
14	Neg. Acknowledge	6	425		<u>100</u> /200	-10		
15	-	-						
23	-	-						
24	Conference Aux.	3	425		Continous	-16		
25	-	-						
26	LCR Tone	12	1800		340/200/ <u>340</u> /200/ <u>340</u> / 1000	-3		

	Conference Tones								
						SIUCO SCC	V3.2 V3.3		
Date: 2	27/08/1993					Philip	oines: LKZ = P		
Co	nference	Ca	mp On	Night	Camp On		Override		
Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone		
1000	Ext. Dial	100	Ext. Dial	100	Ext. Dial	Cont.	Override		
Cont.	Quiet	10000	Pause	100	Pause				
		100	Ext. Dial	100	Ext. Dial				
		Cont.	Quiet	10000	Pause				
				100	Ext. Dial				
				100	Pause				
				100	Ext. Dial				
				Cont.	Quiet				

Dial Tone Receiver (DTR)						
		SIUCO	V3.3+			
Date: 13/09/1990	Philipp	oines (Federal Republic	of Germany): LKZ = 0			
		1st dTR and 2nd DTR	3rd DTR and 4th DTR			
Mode (filter selection)		1	1			
Type (time evaluation)		1	2			
Times type 1 (continuous tone / b	usy ton	e)				
Continuous tone min.	(T1)	500 ms				
Pulse min.	(T2)	160 ms				
Pulse max.	(T3)	250 ms				
Pause min.	(T4)	250 ms				
Pause max.	(T5)	440 ms				
Times type 2 (internal dial tone /	busy tor	ne)				
Long pause	(T1)		800 ms			
Pulse max. + pause max.	. + pause max. (T2) 1000 ms					
Times type 3 (2nd AWT Belgium, measurement pulse - pause - pulse)						
Pulse max. + pause max.	(T1)					

Dial Tone Receiver (DTR)							
SIUCO V3.3+							
Date: 13/09/1990	/09/1990 Philippines (Federal Republic of Germany): LKZ =						
		1st dTR and 2nd DTR	3rd DTR and 4th DTR				
Pulse min.	(T2)						
Pause min.	(T3)						
Pulse max pulse min.	(T4)						
Pause max pause min.	(T5)						
Disconnect time	(T6)						

Philippines

7.29 Poland

Tone Table								
					SIU SIUCO	V3.1 V3.2		
Date:	09/11/1992				Poland: L	KZ = F		
TSL	Tone	TOG	Frequency Hz	RTO	Timing pulse / pause in ms	Level dBm0		
0	Idle Channel	7	0					
1	Int. Dial	9	425	1,2	Continous	-10		
2	Ext. Dial	-						
3	Special Dial	8	425		<u>1400</u> /100	-10		
4	Ring	2	425		<u>1000</u> /4000	-10		
5	Busy	3	425		<u>500</u> /500	-10		
6	Override (warning tone)	4	425		<u>100</u> /4900	-12		
7	Camp On(call waiting tone)	5	425		<u>160</u> /140/ <u>160</u> /4000	-12		
8	Number Unobtainable	11	950/1400/ 1800		<u>340/340/340</u> /1000	-10		
9	Data Call	-						
10	Pos. Acknowledge	-						
11	Congestion	-						
12	Conference	-						
13	Ext. Dial 2 (simulated)	10	425 + 330		Continous	-10		
14	Neg. Acknowledge	-						
15	-	-						
23	Conference Aux. 2	-						
24	Conference Aux.	0	425		Continous	-12		
25	-	-						
26	LCR Tone	-	1800		340/200/ <u>340</u> /200/ <u>340</u> / 1000			

Conference Tones								
SIUCO V3.2 SCC V3.3								
Date: 3	Date: 30/03/1993 Poland: LKZ = F							
Co	onference	Ca	Camp On Night Camp On Overrio		Override			
Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Ton Tone	
Cont.	Pause	Cont.	Camp On	Cont.	Camp On	Cont.	Override	

Dial Tone Receiver (DTR)							
		SIUCO	V3.3+				
Date: 13/09/1993		Poland (Netherlands): LKZ = B				
		1st DTR and 2nd DTR	3rd DTR and 4th DTR				
Mode (filter selection)		6	1				
Type (time evaluation)		1	1				
Times type 1 (continuous tone / bus	y tone)						
Continuous tone min.	(T1)	1020 ms	1020 ms				
Pulse min.	(T2)	180 ms	180 ms				
Pulse max.	(T3)	600 ms	600 ms				
Pause min.	(T4)	160 ms	160 ms				
Pause max.	(T5)	620 ms	620 ms				
Times type 2 (internal dial tone / bus	sy tone)						
Long pause	(T1)						
Pulse max. + pause max.	(T2)						
Times type 3 (2nd AWT Belgium, m	easuren	nent pulse - pause - puls	se)				
Pulse max. + pause max.	(T1)						
Pulse min.	(T2)						
Pause min.	(T3)						
Pulse max pulse min.	(T4)						
Pause max pause min.	(T5)						
Disconnect time	(T6)						

7.30 Portugal

	Tone Table								
					SIU SIUCO	V3.1 V3.2			
Date:	24/06/1989				Portugal: L	KZ = 9			
TSL	Tone	TOG	Frequency Hz	RTO	Timing pulse / pause in ms	Level dBm0			
0	Idle Channel	5	0						
1	Int. Dial	9	350 + 440	2	Continous	-5			
2	Ext. Dial	0	425	1	Continous	-5			
3	Special Dial	6	425		200/300/ <u>200</u> /300/ <u>200</u> / 800	-5			
4	Ring	1	425		<u>1000</u> /4000	-5			
5	Busy	2	425		<u>160</u> /480	-5			
6	Override	3	425		<u>200</u> /300/ <u>200</u> /1300	-13,5			
7	Camp On	4	425		<u>100</u> /1000	-13,5			
8	Number Unobtain- able	11	950/1400/ 1800		<u>340/340/340</u> /1000	-12			
9	Data Call	8	1300		<u>600</u> /1800	-1			
10	Pos. Acknowledge	-							
11	Congestion	-							
12	Conference	-							
13	Ext. Dial 2 (simulated)	-							
14	Neg. Acknowledge	-							
15		-							
23		-							
24	Conference Aux.	7	425		Continous	-13,5			
25		-							
26	LCR Tone	-	1800		340/200/ <u>340</u> /200/ <u>340</u> / 1000				

	Conference Tones								
	V3.2								
Data	20/20/4000					SCC	V3.3		
Date: 3	30/03/1993					Por	tugal: LKZ = 9		
Co	onference	Ca	Camp On		Night Camp On Override				
Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone		
200	Conf. Aux.	Cont.	Camp On	Cont.	Camp On	Cont.	Override		
300	Pause					-	-		
200	Conf. Aux.					-	-		
Cont.	Quiet								

Dial Tone Receiver (DTR)							
		SIU SIUCO	V3.1 V3.2				
Date: 22/06/1991			Portugal: LKZ= 9				
		1st DTR and 2nd DTR	3rd DTR and 4th DTR				
Mode (filter selection)		1	7				
Type (time evaluation)		1	1				
Times type 1 (continuous tone / b	ousy ton	e)					
Continuous tone min.	(T1)	1200 ms	1200 ms				
Pulse min.	(T2)	120 ms	120 ms				
Pulse max.	(T3)	600 ms	600 ms				
Pause min.	(T4)	200 ms	200 ms				
Pause max.	(T5)	600 ms	600 ms				
Times type 2 (internal dial tone /	busy tor	ne)					
Long pause	(T1)						
Pulse max. + pause max.	(T2)						
Times type 3 (2nd AWT Belgium,	measu	rement pulse - pause - p	ulse)				
Pulse max. + pause max.	(T1)						
Pulse min.	(T2)						
Pause min.	(T3)						
Pulse max pulse min.	(T4)						

Dial Tone Receiver (DTR)							
SIU V3.1 SIUCO V3.2							
Date: 22/06/1991			Portugal: LKZ= 9				
		1st DTR and 2nd DTR	3rd DTR and 4th DTR				
Pause max pause min.	(T5)						
Disconnect time	(T6)						

Portugal

7.31 Republic of South Africa

			Tone Table	•		
					SIU SIUCO	V3.1 V3.2
Date:	01/06/1992			Rep	ublic of South Africa: L	KZ = 6
TSL	Tone	TOG	Frequency Hz	RTO	Timing pulse / pause in ms	Level dBm0
0	Idle Channel	4	0			
1	Int. Dial	0	400	1,2	Continous	-7
2	Ext. Dial	8	367 + 433		Continous	-7
3	Special Dial	11	400		<u>40</u> /40	-7
4	Ring	9	367 + 433		<u>400</u> /200/ <u>400</u> /2000	-7
5	Busy	1	400		<u>500</u> /500	-7
6	Override	2	400		<u>200</u> /300/ <u>200</u> /1300	-9
7	Camp On	3	400		<u>100</u> /15000	-11
8	Number Unobtainable	7	400		<u>2500</u> /500	-7
9	Data Call					
10	Pos. Acknowledge	-				
11	Congestion	6	400		<u>250</u> /250	-7
12	Conference	-				
13	Ext. Dial 2 (simulated)					
14	Neg. Acknowledge	-				
15		-				
23	Conference Aux. 2	10	400		Continous	-11
24	Conference Aux.	5	400		Continous	-9
25		-				
26	LCR Tone	12	1800		340/200/ <u>340</u> /200/ <u>340</u> / 1000	-7

	Conference Tones								
	V3.2 V3.3								
Date: 30/03/1993 Republic of South Africa: LKZ									
C	onference	Camp On		Night Camp On Override			Override		
Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone		
200	Conf. Aux.	Cont.	Camp On	Cont.	Camp On	Cont.	Override		
300	Pause	-	-	-	-	-	-		
200	Conf. Aux.	-	-	-	-	-	-		
Cont.	Quiet		_	_			-		

Dial Tone Receiver (DTR)								
		SIU SIUCO	V3.1 V3.2					
Date: 03/09/1990		Republic of	South Africa: LKZ = 6					
		1st DTR and 2nd DTR	3rd DTR and 4th DTR					
Mode (filter selection)		5	5					
Type (time evaluation)		1	1					
Times type 1 (continuous tone /	busy ton	e)						
Continuous tone min.	(T1)	650 ms	650 ms					
Pulse min.	(T2)	220 ms	220 ms					
Pulse max.	(T3)	530 ms	530 ms					
Pause min.	(T4)	220 ms	220 ms					
Pause max.	(T5)	530 ms	530 ms					
Times type 2 (internal dial tone /	busy tor	ne)						
Long pause	(T1)							
Pulse max. + pause max.	(T2)							
Times type 3 (2nd AWT Belgium	n, measu	rement pulse - pause - p	ulse)					
Pulse max. + pause max.	(T1)							
Pulse min.	(T2)							
Pause min.	(T3)							
Pulse max pulse min.	(T4)							

Dial Tone Receiver (DTR)								
SIU V3.1 SIUCO V3.2								
Date: 03/09/1990		Republic of South Africa: LKZ = 6						
		1st DTR and 2nd DTR	3rd DTR and 4th DTR					
Pause max pause min.	(T5)							
Disconnect time	(T6)							

Republic of South Africa

7.32 Singapore

	Tone Table								
					SIU SIUCO	V3.1 V3.2			
Date:	10/03/1993				Singapore: L	KZ = M			
TSL	Tone	TOG	Frequency Hz	RTO	Timing pulse / pause in ms	Level dBm0			
0	Idle Channel	•	0						
1	Int. Dial	9	400 + 450		Continous	-7			
2	Ext. Dial	0	425	1	Continous	-5			
3	Special Dial	8	480 + 620		Continous	-5			
4	Ring	11	400 + 450		<u>400</u> /200/ <u>400</u> /2000	-12			
5	Busy	3	425		<u>750</u> /750	-10			
6	Override	4	425		<u>200</u> /200/ <u>200</u> /5000	-16			
7	Camp On	-							
8	Number Unobtainable	5	425		<u>2500</u> /500	-10			
9	Data Call	-							
10	Pos. Acknowledge	-							
11	Congestion	1	425		<u>250</u> /250	-10			
12	Conference	-							
13	Ext. Dial 2 (simualted)	-							
14	Neg. Acknowledge	-							
15	Erst-Freiton	10	400 + 450		Continous	-12			
23	Conference Aux. 2	6	425		Continous	-10			
24	Conference Aux.	7	425		Continous	-16			
25	-	-							
26	LCR Tone		1800		340/200/ <u>340</u> /200/ <u>340</u> / 1000	-3			

	Conference Tones								
	V3.2								
						SCC	V3.3		
Date: 2	Date: 27/08/1993 Singapore: LKZ =								
Co	onference	Camp On		Night Camp On Override			Override		
Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone		
4000	Congestion	Cont.	Camp On	Cont.	Camp On	200	Conf. Aux.		
-	-	-	-	-	-	200	Pause		
-	-	-	-	-	-	200	Conf. Aux.		
-	-	-	-	-	-	Cont.	Override		

Dial Tone Receiver (DTR)								
SIUCO V3.3+								
Date: 13/09/1993	Singa	oore (Federal Republic	of Germany): LKZ = 0					
		1st DTR and 2nd DTR	3rd DTR and 4th DTR					
Mode (filter selection)		1	1					
Type (time evaluation)		1	2					
Times type 1 (continuous tone / b	usy ton	e)						
Continuous tone min.	(T1)	500 ms						
Pulse min.	(T2)	160 ms						
Pulse max.	(T3)	250 ms						
Pause min.	(T4)	250 ms						
Pause max.	(T5)	440 ms						
Times type 2 (internal dial tone / I	ousy ton	ie)						
Long pause	(T1)		800 ms					
Pulse max. + pause max.	(T2)		1000 ms					
Times type 3 (2nd AWT Belgium,	measur	rement pulse - pause - p	ulse)					
Pulse max. + pause max.	(T1)							
Pulse min.	(T2)							
Pause min.	(T3)							
Pulse max pulse min.	(T4)							
Pause max pause min.	(T5)							

Dial Tone Receiver (DTR)							
SIUCO V3.3+							
Date: 13/09/1993	Singa	Singapore (Federal Republic of Germany): LKZ = 0					
		1st DTR and 2nd DTR	3rd DTR and 4th DTR				
Disconnect time	(T6)						

Singapore

7.33 Spain

	Tone Table								
					SIU SIUCO	V3.1 V3.2			
Date: 24/06/1989 Spain: LK									
TSL	Tone	TOG	Frequency Hz	RTO	Timing pulse / pause in ms	Level dBm0			
0	Idle Channel	-	0						
1	Int. Dial	0	425		200/300/ <u>200</u> /300/ <u>200</u> / 800	-6			
2	Ext. Dial	1	425	1	Continous	-6			
3	Special Dial	8	425		<u>1000</u> /100	-6			
4	Ring	2	425		<u>1500</u> /3000	-6			
5	Busy	3	425		<u>200</u> /200	-6			
6	Override	4	1400		<u>400</u> /5000	-28			
7	Camp On	5	425		600/200/ <u>600</u> /1000	-28			
8	Number Unobtainable	11	950/1400/ 1800		<u>320/400/320</u> /1000	-13			
9	Data Call	6/10	1300		<u>600</u> /1800	-2			
10	Pos. Acknowledge	-							
11	Congestion	-							
12	Conference	-							
13	Ext. Dial 2 (simulated)	7	600	2	Continous	-6			
14	Neg. Acknowledge	-							
15		-							
23	Conference Aux. 2	10/6	1400		Continous	-28			
24	Conference Aux.	9	425		Continous	-28			
25		•							
26	LCR Tone	12	1800		340/200/ <u>340</u> /200/ <u>340</u> / 100	-3			

	Conference Tones								
SIUCO V									
						SCC	V3.3		
Date:	30/03/1993						Spain: LKZ = 5		
Co	onference	Ca	Camp On Night Camp On Overri			Override			
Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone		
400	Conf. Aux. 2	Cont.	Camp ON	Cont.	Camp On	Cont.	Override		
5000	Pause	-	-	-	-	-	-		
400	Conf. Aux. 2	-	-	-	-	-	-		
Cont.	Quiet	-	-	-	-	-	-		

Dial Tone Receiver (DTR)							
	SIU V3.1 SIUCO V3.2						
Date:11.5.1999			Spain: LKZ = 5				
		1st DTR and 2nd DTR	3rd DTR and 4th DTR				
Mode (filter selection)		8	9				
Type (time evaluation)		1	1				
Times type 1 (continuous tone / b	usy ton	e)					
Continuous tone min.	(T1)	1200 975 ms	1200 / 975 ms				
Pulse min.	(T2)	140 ms	140 ms				
Pulse max.	(T3)	260 ms	260 ms				
Pause min.	(T4)	140 ms	140 ms				
Pause max.	(T5)	260 ms	260 ms				
Times type 2 (internal dial tone / I	ousy tor	ne)					
Long pause	(T1)						
Pulse max. + pause max.	(T2)						
Times type 3 (2nd AWT Belgium,	measu	rement pulse - pause - p	ulse)				
Pulse max. + pause max.	(T1)						
Pulse min.	(T2)						
Pause min.	(T3)						
Pulse max pulse min.	(T4)						

Dial Tone Receiver (DTR)							
	SIU V3.1						
	SIUCO V3.2						
Date:11.5.1999		Spain: LKZ = 5					
		1st DTR and 2nd DTR	3rd DTR and 4th DTR				
Pause max pause min.	(T5)						
Disconnect time	(T6)						

Indication of T1 times for SIU type 1 / SIUCO

Spain

7.34 Sweden

	Tone Table							
					SIU SIUCO	V3.1 V3.2		
Date:	Date: 17/5/1994 Sweden (Schweiz): LKZ							
TSL	Tone	TOG	Frequency Hz	RTO	Timing pulse / pause in ms	Level dBm0		
0	Idle Channel	7	0					
1	Int. Dial	-						
2	Ext. Dial	9	425	1,2	Continous	-6,5		
3	Special Dial	6	425		<u>320</u> /20	-6,5		
4	Ring	2	425		<u>1000</u> /5000	-6,5		
5	Busy	3	425		<u>240</u> /260	-6,5		
6	Override	4	1400		<u>100</u> /1500	-26,5		
7	Camp On	-						
8	Number Unobtain- able	11	950/1400/ 1800		<u>340/340/340</u> /1000	-6,5		
9	Data Call	-						
10	Pos. Acknowledge	-						
11	Congestion	-						
12	Conference	-						
13	Ext. Dial 2 (simulated)	-						
14	Neg. Acknowledge	5	425		<u>260</u> /740	-6,5		
15	-	-						
23	Conference Aux. 2	1			Continous	-26,5		
24	Conference Aux.	0	425		Continous	-26,5		
25	-	-						
26	LCR Tone	12	1800		340/200/ <u>340</u> /200/ <u>340</u> / 1000	-3		

	Conference Tones								
	SIUCO V3.2								
						SCC	V3.3		
Date:	Date: 17/05/1994 Sweden: LKZ = U								
Co	onference	Ca	Camp On		On Night Camp On Override				
Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone		
200	Conf. Aux.	200	Conf. Aux.	200	Conf. Aux.	100	Conf. Aux.		
300	Pause	500	Pause	500	Pause	100	Pause		
200	Conf. Aux.	200	Conf. Aux.	200	Conf. Aux.	Cont.	Override		
Cont.	Quiet	Cont.	Quiet	Cont.	Quiet	-	-		

Dial Tone Receiver (DTR)								
SIUCO V3.3+								
Date: 13/09/1990		Sweden	(Switzerland): LKZ = 2					
		1st DTR and 2nd DTR	3rd DTR and 4th DTR					
Mode (filter selection)		4	4					
Type (time evaluation)		1	1					
Times type 1 (continuous tone / b	usy ton	e)						
Continuous tone min.	(T1)	340 ms	340 ms					
Pulse min.	(T2)	160 ms	160 ms					
Pulse max.	(T3)	310 ms	310 ms					
Pause min.	(T4)	160 ms	160 ms					
Pause max.	(T5)	320 ms	320 ms					
Times type 2 (internal dial tone / I	ousy tor	ne)						
Long pause	(T1)							
Pulse max. + pause max.	(T2)							
Times type 3 (2nd AWT Belgium,	measu	rement pulse - pause - p	ulse)					
Pulse max. + pause max.	(T1)							
Pulse min.	(T2)							
Pause min.	(T3)							
Pulse max pulse min.	(T4)							
Pause max pause min.	(T5)							

Dial Tone Receiver (DTR)							
SIUCO V3.3+							
Date: 13/09/1990	Sweden (Switzerland): LKZ = 2						
		1st DTR and 2nd DTR	3rd DTR and 4th DTR				
Disconnect time	(T6)						

Sweden

7.35 Switzerland

	Tone Table							
						V3.1		
Date: 22/04/1994 Switzerland: LKZ								
TSL	Tone	TOG	Frequency	RTO	Timing	Level		
102	Tone	100	Hz	1110	pulse / pause in ms	dBm0		
0	Idle Channel	7	0					
1	Int. Dial	9	425	1,2	Continous	-1		
2	Ext. Dial							
3	Special Dial	8	425/425 + 340		<u>1100</u> /1100	-2,9*		
4	Ring	2	425		<u>1000</u> /4000	-6		
5	Busy	3	425		<u>500</u> /500	-6		
6	Override	4	1400		<u>200</u> /2000	-13,5		
7	Camp On	5	425		<u>200</u> /200/ <u>200</u> /4000	-13,5		
8	Number Unobtain- able	11	950/1400/ 1800		<u>340/340/340</u> /1000	-6		
9	Data Call	6	1300		<u>600</u> /1800	-1		
10	Pos. Acknowledge	-						
11	Congestion	10	425		<u>200</u> /200	-6		
12	Conference	-						
13	Ext. Dial 2 (simulated)	-						
14	Neg. Acknowledge	-						
15		-						
23	Conference Aux. 2	1	1400		Continous	-13,5		
24	Conference Aux.	0	425		Continous	-13,5		
25	-	•						
26	LCR Tone							

^{*:} Einzel Pegel!

	Conference Tones								
						SIUCO	V3.2		
						SCC	V3.3		
Date: 3	30/03/1993					Switze	erland: LKZ = 2		
Co	onference	Ca	amp On	Night	Night Camp On Override				
Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone		
200	Conf. Aux.	Cont.	Camp On	Cont.	Camp On	Cont.	Override		
2000	Pause	-	-	-	-	-	-		
200	Conf. Aux.	-	-	-	-	-	-		
Cont.	Quiet	_	-	-	-	-	-		

Dial Tone Receiver (DTR)							
SIUCO V3.3+							
Date: 13/09/1990			Switzerland: LKZ = 2				
		1st DTR and 2nd DTR	3rd DTR and 4th DTR				
Mode (filter selection)		4	4				
Type (time evaluation)		1	1				
Times type 1 (continuous tone / b	usy ton	e)					
Continuous tone min.	(T1)	340 ms	340 ms				
Pulse min.	(T2)	160 ms	160 ms				
Pulse max.	(T3)	310 ms	310 ms				
Pause min.	(T4)	160 ms	160 ms				
Pause max.	(T5)	320 ms	320 ms				
Times type 2 (internal dial tone / I	ousy ton	ne)					
Long pause	(T1)						
Pulse max. + pause max.	(T2)						
Times type 3 (2nd AWT Belgium,	measur	rement pulse - pause - p	ulse)				
Pulse max. + pause max.	(T1)						
Pulse min.	(T2)						
Pause min.	(T3)						
Pulse max pulse min.	(T4)						
Pause max pause min.	(T5)						

Dial Tone Receiver (DTR)							
SIUCO V3.3+							
Date: 13/09/1990			Switzerland: LKZ = 2				
		1st DTR and 2nd DTR	3rd DTR and 4th DTR				
Disconnect time	(T6)						

Switzerland

7.36 Thailand

	Tone Table										
			Tone Table	•	SIU SIUCO						
Date: 6	6/7/1994				Thailand: L	KZ = O					
TSL	Tone	TOG	Frequency Hz	RTO	Timing pulse / pause in ms	Level dBm0					
0	Idle Channel	-	0								
1	IInt. Dial	9	350 + 440		Continous	-10					
2	Ext. Dial	11	440 + 450		Continous	-10					
3	Special Dial	3	350		Continous	-10					
4	Ring Back	2	400		<u>1000</u> /3000	-8					
5	Busy	10	480 + 620		<u>500</u> /500	-8					
6	Override	4	440		<u>200</u> /200/ <u>200</u> /4000	-16					
7	Camp On	6	440		<u>200</u> /30000	-16					
8	Number Unobtain- able	5	400		100/100/ <u>100</u> /100/ <u>100</u> / 100/300 <u>/100</u>	-10					
9	Data Call	-									
10	Pos. Acknowledge	1	440		Continous	-10					
11	Congestion	-									
12	Conference Specia Dial After Hookflash	8	350 + 440		<u>120</u> /120	-10					
13	Ext. Dial 2 (simulated)	-									
14	Neg. Acknowledge	-									
15	First Ring Back	0	400		Continous	-8					
23	-	-									
24	Conference Aux.	7	440		Continous	-16					
25	-	-									
26	LCR Tone		1800		340/200/ <u>340</u> /200/ <u>340</u> / 1000						

	Conference Tones												
	SIUCO V3.2												
						SCC	V3.3						
Date: (06/07/1994					Tha	iland: LKZ = O						
Co	onference	Ca	amp On	On Night Camp On Override			Override						
Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone						
1000	Conf. Aux.	200	Conf. Aux.	200	Conf. Aux.	200	Conf. Aux.						
Cont.	Quiet	Cont.	Camp On	Cont.	Camp On	Cont.	Override						
-	-	-	-	-	-	-	-						
-	-	-	-	-	-	-	-						

Dial Tone Receiver (DTR)								
SIUCO V3.3+								
Date: 13/09/1990	Thailand (South Afrika): LKZ							
		1st DTR and 2nd DTR	3rd DTR and 4th DTR					
Mode (filter selection)		5	5					
Type (time evaluation)		1	1					
Times type 1 (continuous tone / b	usy ton	e)						
Continuous tone min.	(T1)	650 ms	650 ms					
Pulse min.	(T2)	220 ms	220 ms					
Pulse max.	(T3)	530 ms	530 ms					
Pause min.	(T4)	220 ms	220 ms					
Pause max.	(T5)	530 ms	530 ms					
Times type 2 (internal dial tone / I	ousy ton	ne)						
Long pause	(T1)							
Pulse max. + pause max.	(T2)							
Times type 3 (2nd AWT Belgium,	measur	rement pulse - pause - p	ulse)					
Pulse max. + pause max.	(T1)							
Pulse min.	(T2)							
Pause min.	(T3)							
Pulse max pulse min.	(T4)							
Pause max pause min.	(T5)							

Dial Tone Receiver (DTR)							
SIUCO V3.3+							
Date: 13/09/1990		Thailand (South Afrika): LKZ = 6					
		1st DTR and 2nd DTR	3rd DTR and 4th DTR				
Disconnect time	(T6)						

Thailand

7.37 Turkey

	Tone Table										
					SIUX	V3.4					
Versio	n: 9.4.1997				Turkey: LI	KZ = 17					
TSL	Tone	TOG	Frequency Hz	RTO	Timing pulse / pause in ms	Level dBm0					
0	Idle Channel	-	0								
1	Internal Dial	0	450	1,2	Continuous	-10					
2	Second Dial	10	350 + 450		Continuous	-10					
3	Special Dial	6	450		<u>1000</u> /260	-10					
4	Ring back	2	450		2000/4000	-10					
5	Busy	4	450		<u>500</u> /500	-10					
6	Override	9	450		<u>100</u> /10000	-15					
7	Camp On	8	450		<u>100</u> /100/ <u>100</u> /5000	-15					
8	Number Unobtain- able	5	450		<u>200</u> /200	-10					
9	Toll Break In	3	450		<u>200</u> /200/ <u>600</u> /200	-10					
10	Pos. Acknowledge	-	-		-	-					
11	Congestion, Over- flow	1	450		200/200/ <u>200</u> /200/ <u>200</u> / 200/ <u>600</u> /200	-10					
12	Conference	-	-		-	-					
13	Special Information	12	950/1400/ 1800		<u>340/340/340</u> /1000	-10					
14	Special Confirmation	11	450		<u>40</u> /40	-10					
15	Howler	-	-		-	-					
23	Test	13	804		Continuous	-4					
24	Conference Aux.	7	450		Continuous	-15					
25	-	-	-		-	-					
26	LCR Tone	14	1800		340/200/ <u>340</u> /200/ <u>340</u> / 1000	-10					

	Conference Tones											
						SIUX	V3.4					
Date: 9	4.1997					Turl	key: LKZ = 17					
Co	onference	Camp On Night Subscriber camp On		0	verride							
Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone					
200	Conf. Aux.	Cont.	Camp On	Cont.	Camp On	100	Conf. Aux.					
Cont.	Quiet					1000	Quiet					
						Cont.	Override					

Dial Tone Receiver (DTR)									
Datw: 9.4.1997			Turkey: LKZ = 17						
		1st DTR and 2nd DTR	3rd DTR and 4th DTR						
Mode (filter selection)		4	4						
Type (time evaluation)		1	1						
Times type 1 (continuous tone /	busy ton	e)							
Continuous tone min.	(T1)	800	800						
Pulse min.	(T2)	150	150						
Pulse max.	(T3)	700	700						
Pause min.	(T4)	150	150						
Pause max.	(T5)	700	700						

7.38 Hungary

	Tone Table										
					SIU						
		T			SIUCO						
	15/11/1994				Hungary: Li	1					
TSL	Tone	TOG	Frequency Hz	RTO	Timing pulse / pause in ms	Level dBm0					
0	Idle Channel	-	0								
1	Int. Dial	-									
2	Ext. Dial	0	425	1,2	Continous	-3					
3	Special Dial	8	425 + 400		Continous	-8					
4	Ring	1	425		<u>1240</u> /3760	-3					
5	Busy	2	425		<u>300</u> /300	-3					
6	Override	3	425		<u>300</u> /300/ <u>300</u> /1500	-11					
7	Camp On = Conference	4	425		<u>40</u> /1960	-11					
8	Number Unobtain- able = Hinweiston (SIT)	5	950/1400/ 1800		340/340/340/1000	-3					
9	Data Call	-									
10	Pos. Acknowledge	-									
11	Warteton	6	425		<u>120</u> /120/ <u>120</u> /500	-3					
12	Conference	-									
13	Ext. Dial 2 (simulated)	-									
14	Neg. Acknowledge	-									
15	Test	7	900		Cont.	-4,5					
23	Alarm	10	1000		Cont.	+0,66					
24	Conference Aux.	9	425		Cont.	-11					
25	-	-									
26	LCR Tone	-	1800		340/200/ <u>340</u> /200/ <u>340</u> / 1000						

Testton geht nicht über SLMA, sondern über Satz (Reletivpegel DA = -1 dBr bei Analogsatz, 0 dBr bei Digitalsatz).

Forderung ist -5 dBm +/- 0,5 dB.

	Conference Tones											
SIUCO V3.3+ SCC V3.3												
Date:	15/11/1994					Hung	gary: LKZ = 10					
Co	onference	Ca	Camp On Night Camp On Override			Override						
Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone					
40	Conf. Aux.	40	Conf. Aux.	40	Conf. Aux.	300	Conf. Aux.					
40	Pause	40	Pause	40	Pause	300	Pause					
Cont.	Camp On	Cont.	Camp On	Cont.	Camp On	Cont.	Override					
-	ı	-	-	-	-	-	-					

Dial Tone Receiver (DTR)								
	V3.3+							
Date: 15/11/1994			Hungary: LKZ = 10					
		1st DTR and 2nd DTR	3rd DTR and 4th DTR					
Mode (filter selection)		1	1					
Type (time evaluation)		1	1					
Times type 1 (continuous tone / b	usy ton	e)						
Continuous tone min.	(T1)	500 ms	500 ms					
Pulse min.	(T2)	240 ms	240 ms					
Pulse max.	(T3)	360 ms	360 ms					
Pause min.	(T4)	240 ms	240 ms					
Pause max.	(T5)	360 ms	360 ms					
Times type 2 (internal dial tone / I	ousy tor	ne)						
Long pause	(T1)							
Pulse max. + pause max.	(T2)							
Times type 3 (2nd AWT Belgium,	Times type 3 (2nd AWT Belgium, measurement pulse - pause - pulse)							
Pulse max. + pause max.	(T1)							
Pulse min.	(T2)							

Dial Tone Receiver (DTR)								
	SIUCO V3.3+							
Date: 15/11/1994	Hungary: LKZ							
		1st DTR and 2nd DTR	3rd DTR and 4th DTR					
Pause min.	(T3)							
Pulse max pulse min.	(T4)							
Pause max pause min.	(T5)							
Disconnect time	(T6)							

Hungary

7.39 USA

	Tone Table									
						V3.1				
	24/22/4				SIUCO					
	21/09/1993		<u> </u>		USA (Only μ-Law): LKZ = K					
TSL	Tone	TOG	Frequency Hz	RTO	Timing pulse / pause in ms	Level dBm0				
0	Test	0	1004		Continuous	-14				
1	Dial, Recall Dial	10	350 + 440		Continuous	-11				
2	LDN Call Ident.	1	480		Continuous	-13				
3	Special Dial	5	350 + 440		<u>400</u> /100	-11				
4	Called Party	2	2100		Continuous	-10				
5	Busy	7	480 + 620		<u>500</u> /500	-21				
6	Busy Override Injection Override	3	440		<u>260</u> /14000	-24				
7	Camp On	9	480 + 620		Continuous	-21				
8	Audible Ring	6	440 + 480		1000/3000	-16				
9	Reorder	8	480 + 620		<u>240</u> /260	-21				
10	Operator Call Identification	4	440	1,2	Continuous	-13				
11	Message Waiting Dial Tone	11 12	350 + 440		<u>1240</u> /260	-11				
12	Busy Override Injection Aux. Tone	12 11	440		Continuous	-24				
13	Special Audible Ring	13	440+480 / 440 /0		<u>1000/200</u> /3000	-13/- 16				
14	Intercept	14	440 / 620 / 0		<u>240/240</u> /0	-17				
15	Quiet Idle Channel Code	-	0		Continuous					
23	-	-								
24	-	-								
25	-	-								
26	LCR Tone	-	1800		340/200/ <u>340</u> /200/ <u>340</u> / 1000					

LCR tone is not yet contained in code

	Conference Tones								
	SIUCO V3.2								
						SCC	V3.3		
Date: 2	Date: 27/08/1993 USA: LKZ = F								
C	onference	Ca	amp On	Nigh	t Camp On		Override		
Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone		
500	Busy Override Inj. Aux.	-	-	-	-	500	Busy Override Inj. Aux.		
Cont.	Idle	-	-	-	-	6000	Pause		
-	-	-	-	-	-	Cont.	Busy Override Inj.		
	-	-	-	-	-	-	-		



Note

File PZJSTONK is not suitable for SIU type 1, but for SIU type 4 (USA). File PZJETONK is used for a special USA-SIUCO, or for SIUX, SIUCX.

Dial Tone Receiver (DTR)							
SIUCO V3.3+							
Date: 25/07/1991	USA: LKZ = K						
		1st DTR and 2nd DTR	3rd DTR and 4th DTR				
Mode (filter selection)		2	2				
Type (time evaluation)		1	1				
Times type 1 (continuous tone / b	usy ton	e)					
Continuous tone min.	(T1)	650 ms	650 ms				
Pulse min.	(T2)	240 ms	240 ms				
Pulse max.	(T3)	520 ms	520 ms				
Pause min.	(T4)	240 ms	240 ms				
Pause max.	(T5)	520 ms	520 ms				
Times type 2 (internal dial tone / busy tone)							

Dial Tone Receiver (DTR)							
SIUCO V3.3+							
Date: 25/07/1991			USA: LKZ = K				
		1st DTR and 2nd DTR	3rd DTR and 4th DTR				
Long pause	(T1)						
Pulse max. + pause max.	(T2)						
Times type 3 (2nd AWT Belgium	m, measu	rement pulse - pause - p	ulse)				
Pulse max. + pause max.	(T1)						
Pulse min.	(T2)						
Pause min.	(T3)						
Pulse max pulse min.	(T4)						
Pause max pause min.	(T5)						
Disconnect time	(T6)						

7.40 Vietnam

	Tone table								
					SIUCO	E2.0			
Date:	20.5.1999				Vietnam: LI	KZ = 19			
TSL	Tone	TOG	Frequency Hz	RTO	Timing pulse / pause in ms	Level dBm0			
0	Idle channel	-	0						
1	Int. Dial	0	425		Continous	-10			
2	Ext. Dial	-		1					
3	Special Dial	8	400 + 425		Continous	-10			
4	Ring back	2	425		<u>1000</u> /4000	-10			
5	Busy	3	425		<u>500</u> /500	-10			
6	Intrusion	4	425		<u>200</u> /300/ <u>200</u> /1300	-15			
7	Call waiting	5	425		<u>400</u> /9000	-15			
8	Number Unobtainable	11	950/1400/ 1800		<u>320/320/320</u> /1000	-10			
9	Data call	-							
10	Recorder warning	1	1400		<u>400</u> /15000	-15			
11	Congestion	6	425		200/200/ <u>200</u> /200/ <u>200</u> / 1000	-10			
12	-	-							
13	Ext. Dial 2	-							
14	-	-							
15	-	-							
23	-	-							
24	Conference Aux.	9	425	2	Continous	-15			
25		-							
26	LCR tone	7	1800		340/200/ <u>340</u> /200/ <u>340</u> / 1000	-10			

Conference Tones								
	SIUX E2.0							
Date: 2	Date: 20.5.1999 Vietnam: LKZ = 19							
Co	onference	e Camp on Night Camp On Intrusion					ntrusion	
Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone	Time (ms)	Tone	
200	Conf. Aux.	Cont.	Camp On	Cont.	Camp On	Cont.	Override	
300	Pause	-	-	-	-	-	-	
200	Conf. Aux.	-	-	-	-	-	-	
Cont.	Quiet	-	-	-	-	-	-	



Note:

The receiver table used for Vietnam is the same as for China: PZJERECC MFV / DTMF level as for BRD (FRG): -7.2 / -5.2 dBm0 (sum +0.8 dBm0)

7.41 Yugoslavia

	Tone table							
					SIUX	V3.5		
Date:	5.8.1998				Yugoslavia: Ll	KZ = 29		
TSL	Tone	TOG	Frequency Hz	RTO	Timing pulse / pause in ms	Level dBm0		
0	Idle Channel	-	0					
1	Int. Dial	8	425	1,2	Dauer	-3		
2	Ext. Dial	9	425		<u>200</u> /300/ <u>700</u> /800	-3		
3	Waiting (Warning back)	3	425		<u>100</u> /5000	-3		
4	Ring back	10	425		<u>1000</u> /4000	-3		
5	Busy	0	425		<u>500</u> /500	-3		
6	Intrusion	1	425		<u>200</u> /800	-7		
7	Warning = Camp On (Call waiting)	2	425		<u>200</u> /5000	-7		
8	Number Unobtain- able	11	950/1400/ 1800		<u>340/340/340</u> /1000	-3		
9	Special Dial TOne	12	425 / 425 + 340		<u>1000</u> / 1000	-3 ¹		
10	Pos. QuittTon	5	425		<u>500</u> /1000	-3		
11	Congestion	6	425		<u>200</u> /200	-3		
12	Conference	-						
13	Checking Tone	-						
14	Neg. QuittTon	-						
15	-	-						
23	Alarmton	-						
24	Conference Aux. Tone	4	425		Dauer	-7		
25	-	-						
26	LCR-Ton	12	1800		340/200/ <u>340</u> /200/ <u>340</u> / 1000	-3		

¹ Special Dial Tone Pegel = - 3 dBm0 pro Frequenz, Summenpegel = 0 dBm0

	Conference Tones								
	SIUX V3.5								
Date: 2	Date: 27.7.1998 Yugolsavia (YUG = Serbien): LKZ = 29								
Conf	erence Tone	Ca	amp On	Night	Camp On		ntrusion		
Time (ms)	Tone	Time (ms)	Tone Time Tone Time (ms)				Tone		
500	Conf. Aux	Dauer	Camp On	Dauer	Camp On	Dauer	Intrusion		
Dauer	Ruhe	-	-	-	-	-	-		
•	ı	-	•	-	•	-	-		
-	-	-	-	-	-	-	-		

Dial Tone Receiver (DTR)							
SIUX V3.5							
Date: 27.7.1998	Yugoslavia (YUG = Serbien): LKZ = K						
		1st DTR and 2nd DTR	3rd DTR and 4th DTR				
Mode (filter selection)		1	1				
Type (time evaluation)		1	1				
Times type 1 (continuous tone / b	usy ton	e)					
Continuous tone min.	(T1)	600 ms	600 ms				
Pulse min.	(T2)	400 ms	400 ms				
Pulse max.	(T3)	590 ms	590 ms				
Pause min.	(T4)	400 ms	400 ms				
Pause max.	(T5)	600 ms	600 ms				
Times type 2 (internal dial tone / I	ousy ton	ie)					
Long pause	(T1)						
Pulse max. + pause max.	(T2)						
Times type 3 (2nd AWT Belgium,	measur	rement pulse - pause - p	ulse)				
Pulse max. + pause max.	(T1)						
Pulse min.	(T2)						
Pause min.	(T3)						
Pulse max pulse min.	(T4)						
Pause max pause min.	(T5)	_	_				

Dial Tone Receiver (DTR)						
SIUX V3.5						
Date: 27.7.1998	Yugoslavia (YUG = Serbien): LKZ = K					
	1st DTR and 2nd DTR 3rd DTR and 4th DTR					
Disconnect time	(T6)					

Yugoslavia

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