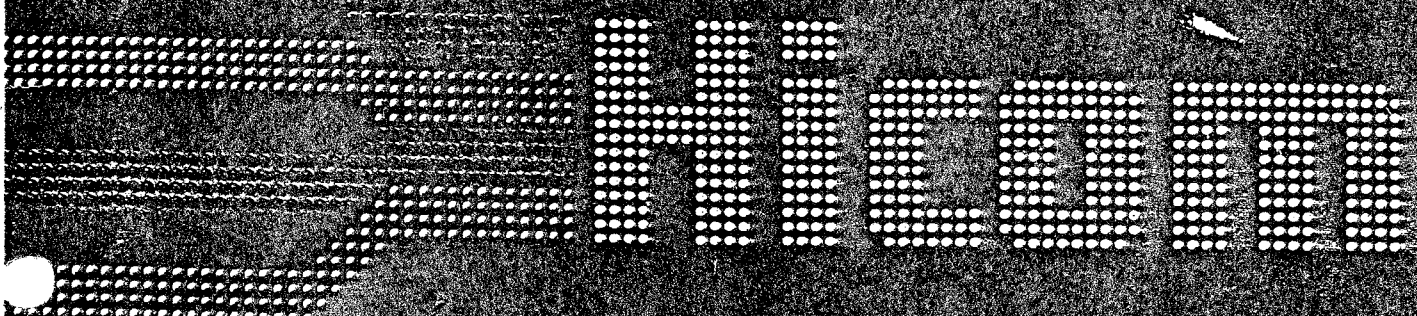


SIEMENS

System Hicom 100

Customer Data Sheets
Hicom 110/120

A30950-D55-X-5-7649



Sollten Sie zusätzliche Fragen haben, die Sie in Ihrem Bereich (ZN, LG) nicht klären können, so wenden Sie sich bitte an den zentralen

PN VS Service
Hofmannstraße 51
8000 München 70

Leitstelle Fernsprecher (0 89) 7 22 - 2 54 11
Fernkopierer (0 89) 7 22 - 2 67 22
Telex 5288-249

Siemens Hicom 110/120 Customer Data Sheets

A30950-D55-X-5-7649

The data must always be up to date.

Customer:

Put into service on: By:

Telephone assignments

User pos.	Name, room number	User pos.	Name, room number
00		12	
01		13	
02		14	
03		15	
04		16	
05		17	
06		18	
07		19	
08		20	
09		21	
10		22	
11		23	

Line assignments

Line pos.	Call number	Connected to		Dialing method			Door signal on telephone
		Public exchange	PABX	Dial pulsing	DTMF	U ₂₀₀	
00							
01							
02							
03							
04							
05							
06							
07							

Load country-specific standards

For countries with customer data deviating from the international standard, the system must be reinitialized using the appropriate codeword.

Overview of the national codewords for standard initialization of the versions for different countries.

Country	Codeword	National identification code (identifiable under AC S6 * ZC 10)
Australia	12908192	00
Spain	96149549	01
Finland	69442143	04
Great Britain	54721445	06
Austria, capac. stage 3/6 only	No codeword: setting by means of special hardware	07
Federal Republic of Germany (standard)	45109382 (not required)	08
Rest of world KEY	85315585	09
Rest of world PABX	58361248	10
France	68141859	11
Italy	70129594	12
Ireland	98213498	13
Netherlands	49545821	14
Belgium	25279542	15
Portugal	37496521	16
Sweden	83795638	17
South Africa	79210567	18

Country abbreviations:

AUS = Australia
SPA = Spain
FIN = Finland
GBR = Great Britain
OES = Austria
BRD = Standard
SWE = Sweden
RSA = South Africa

FKR = France
ITA = Italy
IRL = Ireland
NDL = Netherlands
BEL = Belgium
POR = Portugal
WKY = Rest of world KEY (key systems)
PBX = Rest of world PABX (PABXs)

Important

The national codewords activate the features approved by the PTT as well as functional adaptations and, in particular, transmission-oriented characteristics.

The misuse of codewords for the purpose of, for example, enabling barred features, can cause the relevant postal service center to revoke your system operating permit and can also lead to malfunctions.

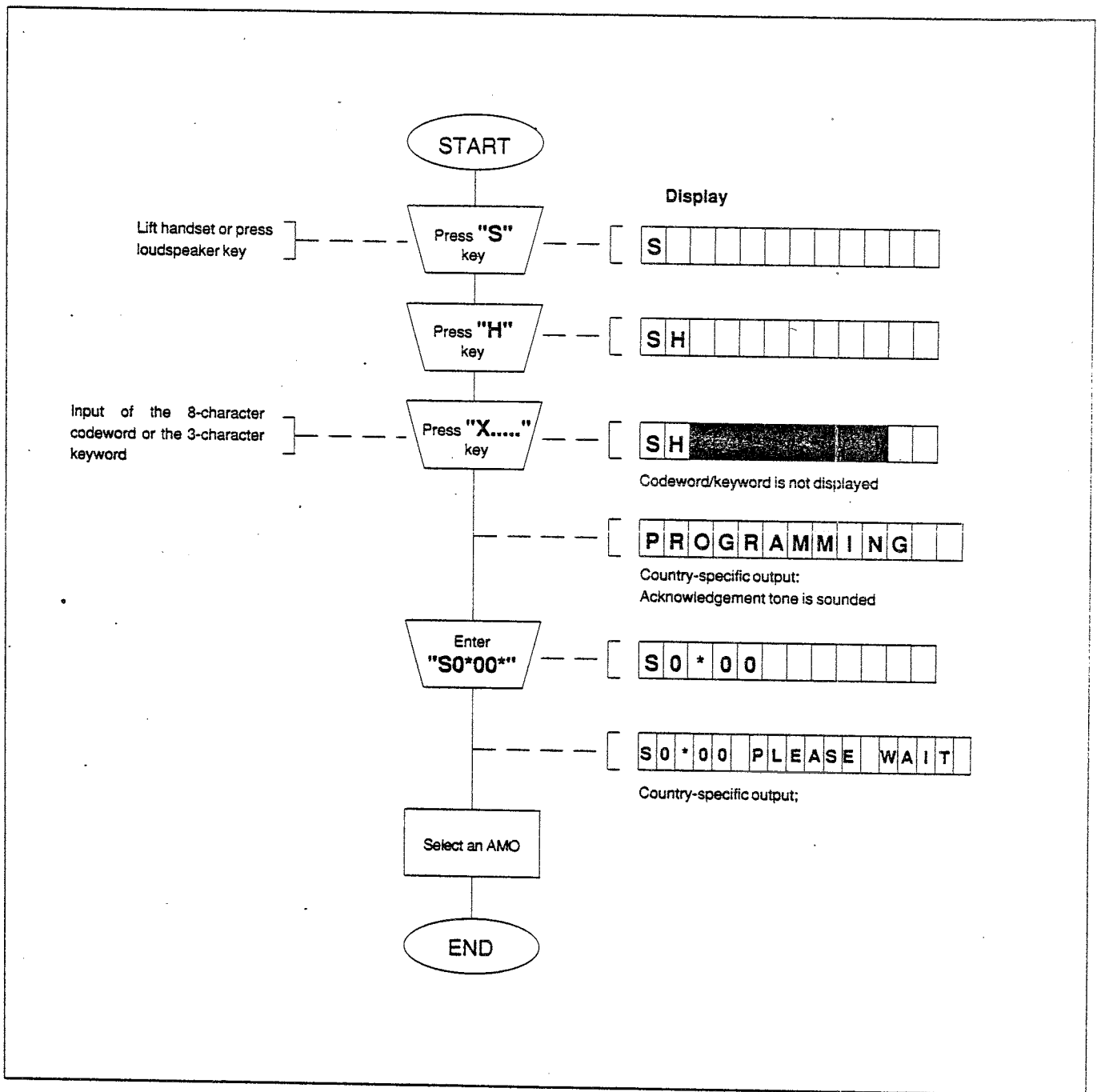


Fig. 1.02 Input of country-specific codeword

Customer data procedures

To use the procedures below, a "keyword" must be entered. If several BTAs are to be called consecutively, the keyword must be called before the first procedure only. The keyword does not need to be reentered until the handset is cradled or the loudspeaker is switched off.

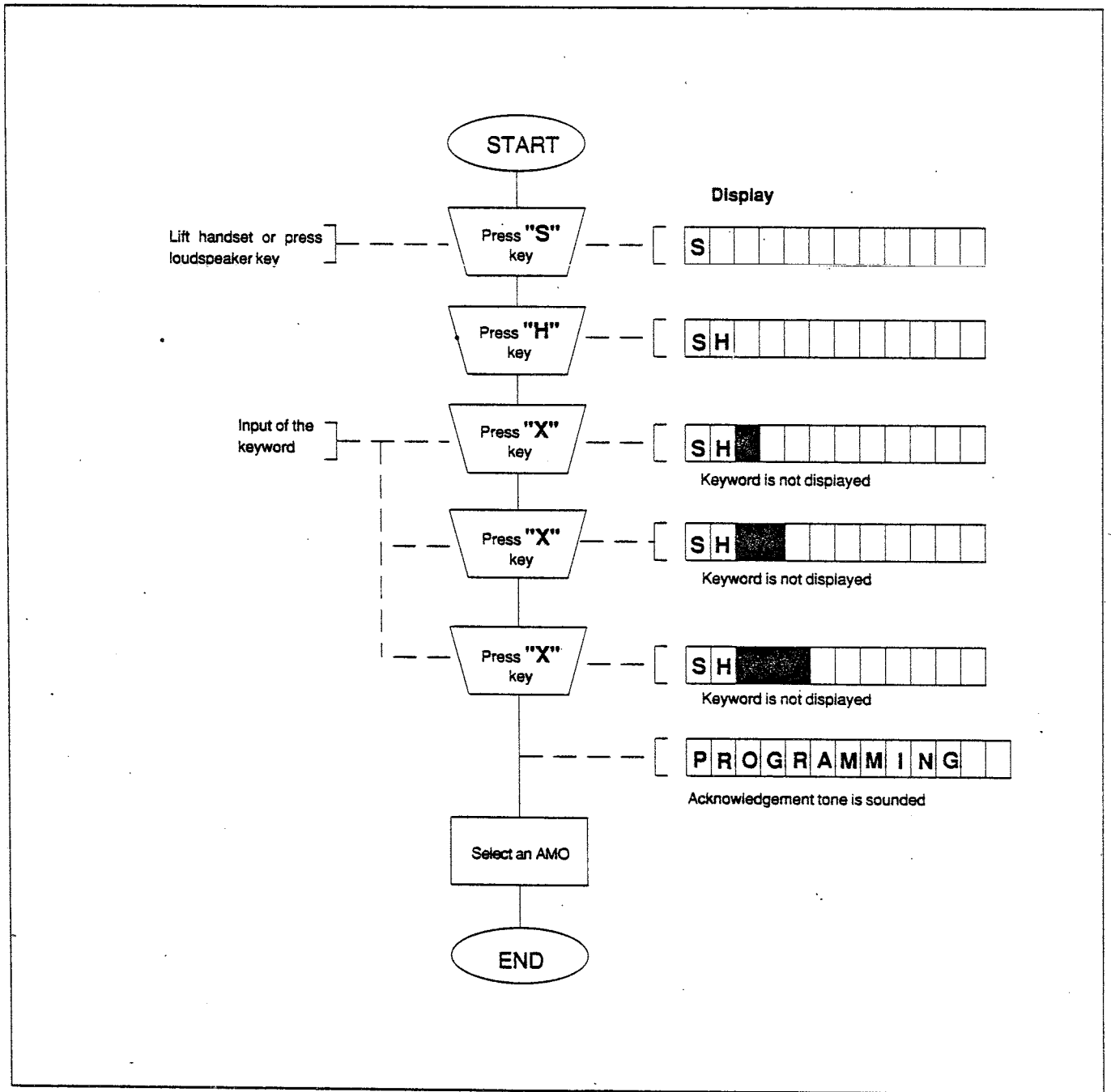


Fig. 1.01 Input of keyword

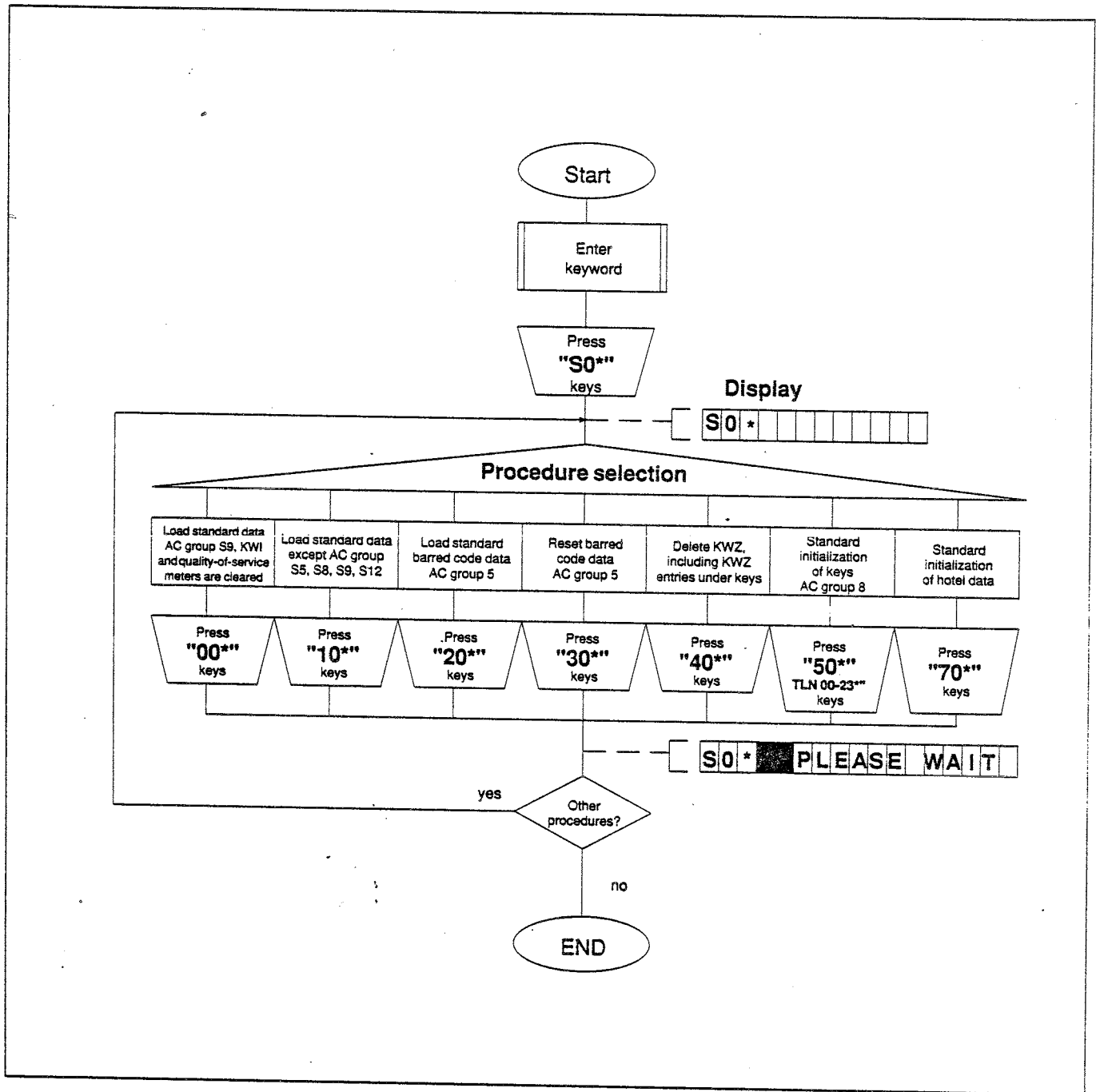


Fig. 1.03 Initialization procedure

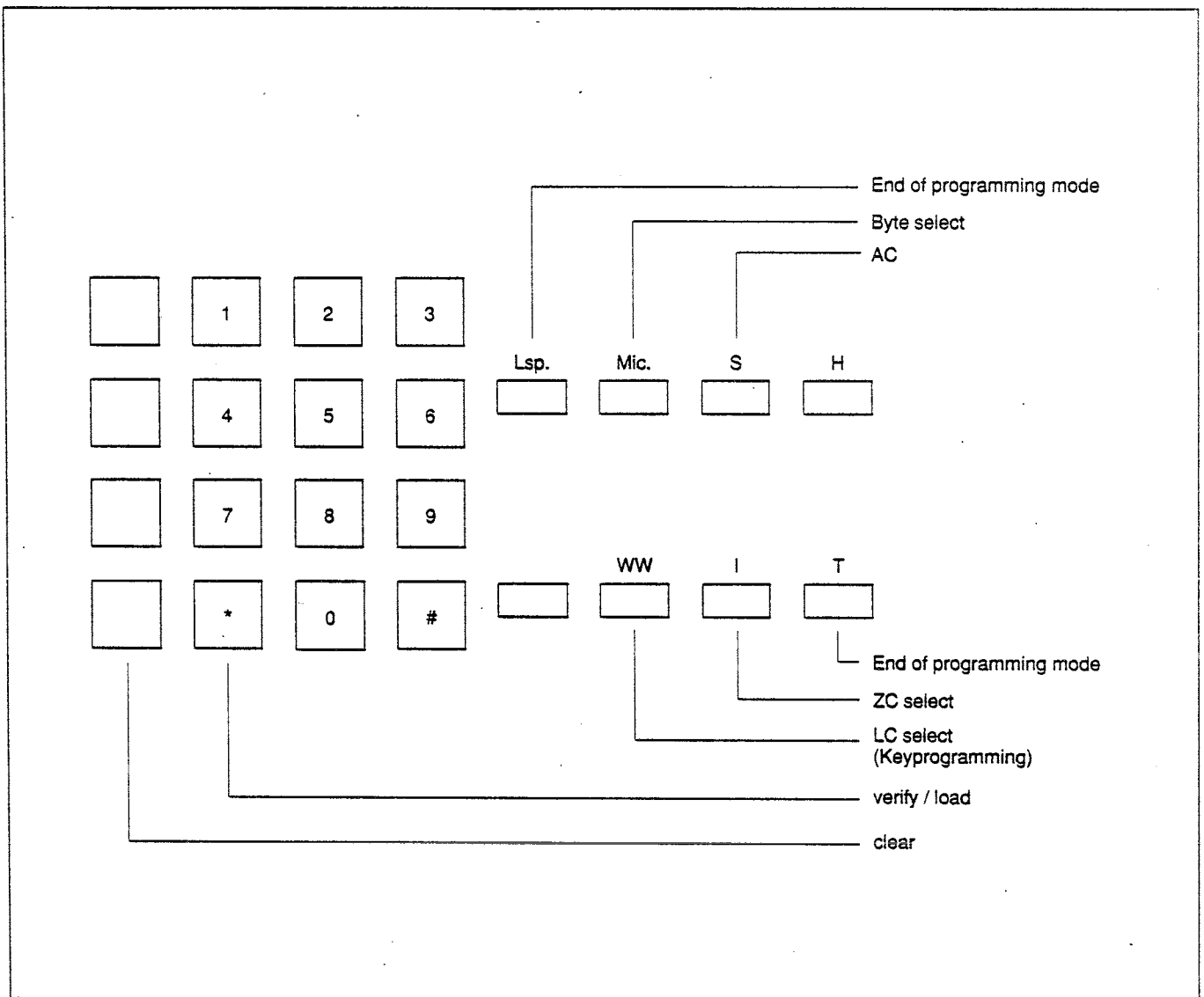
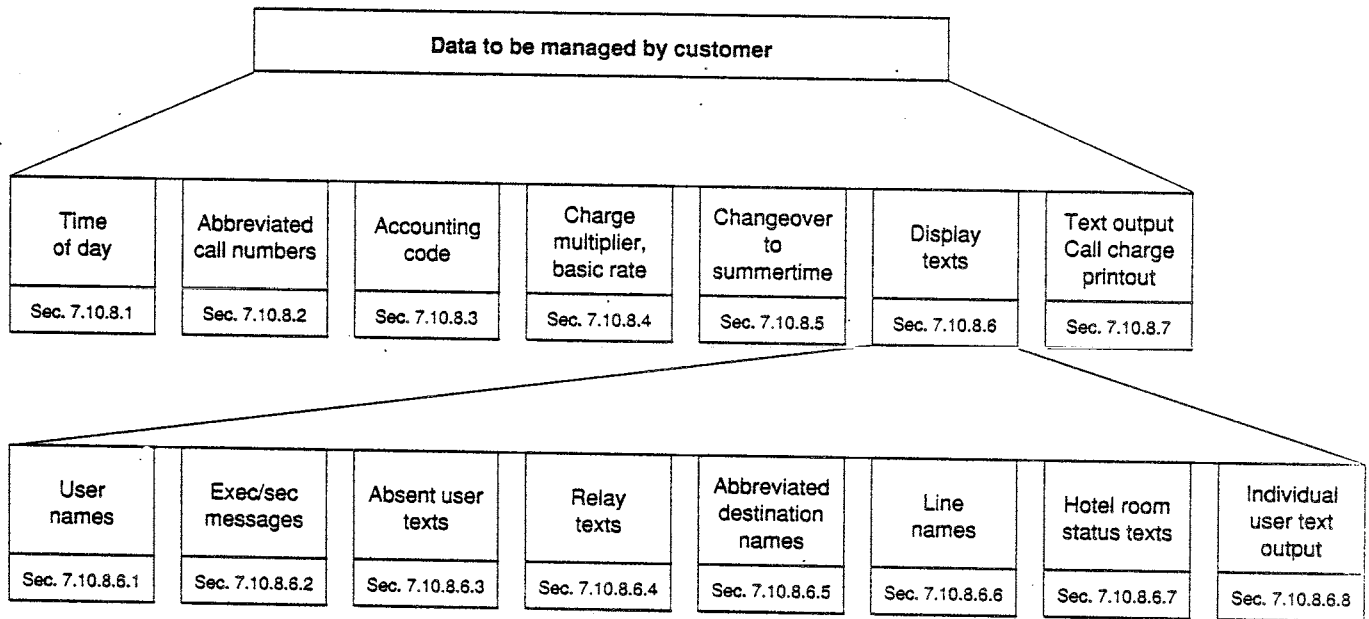
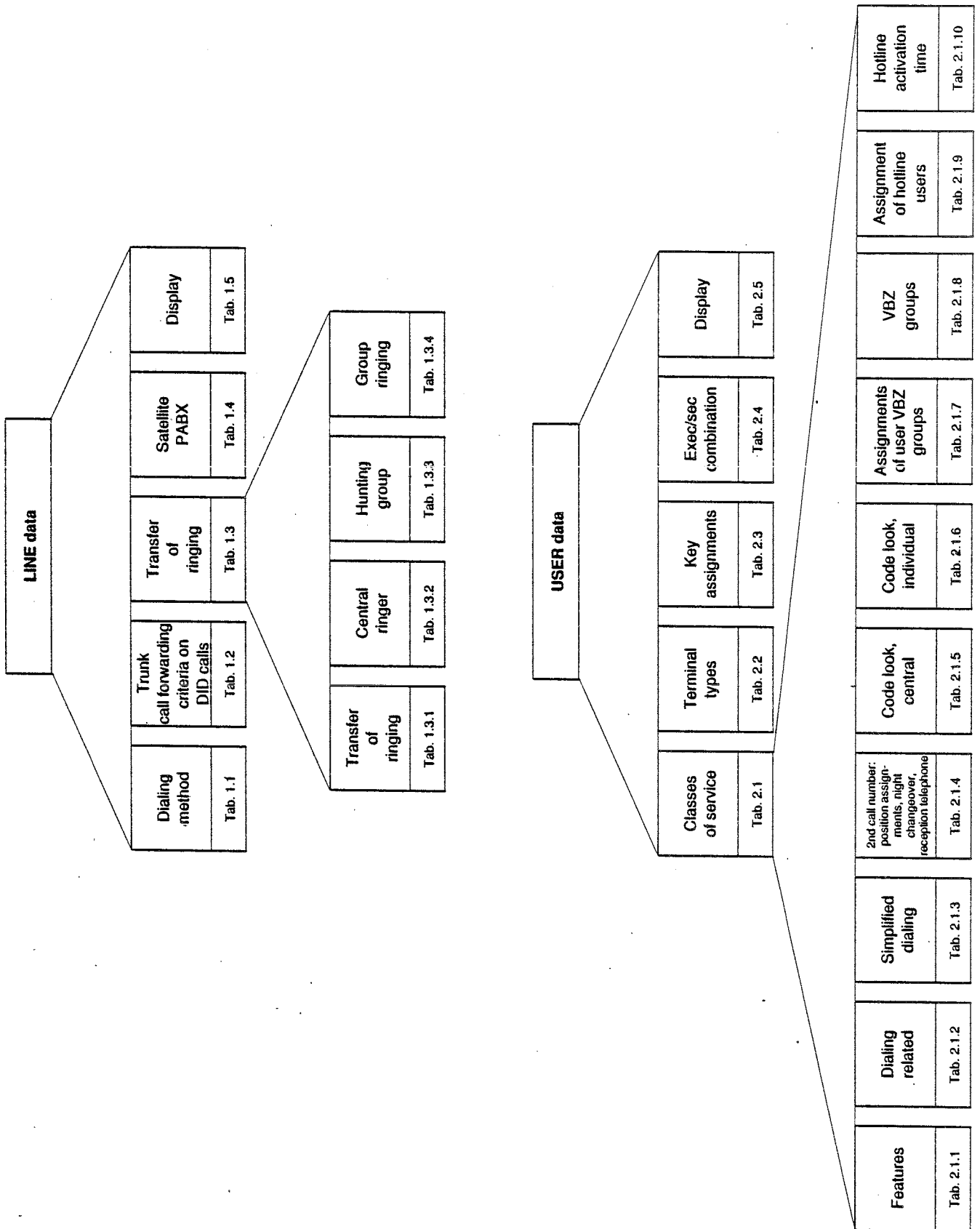
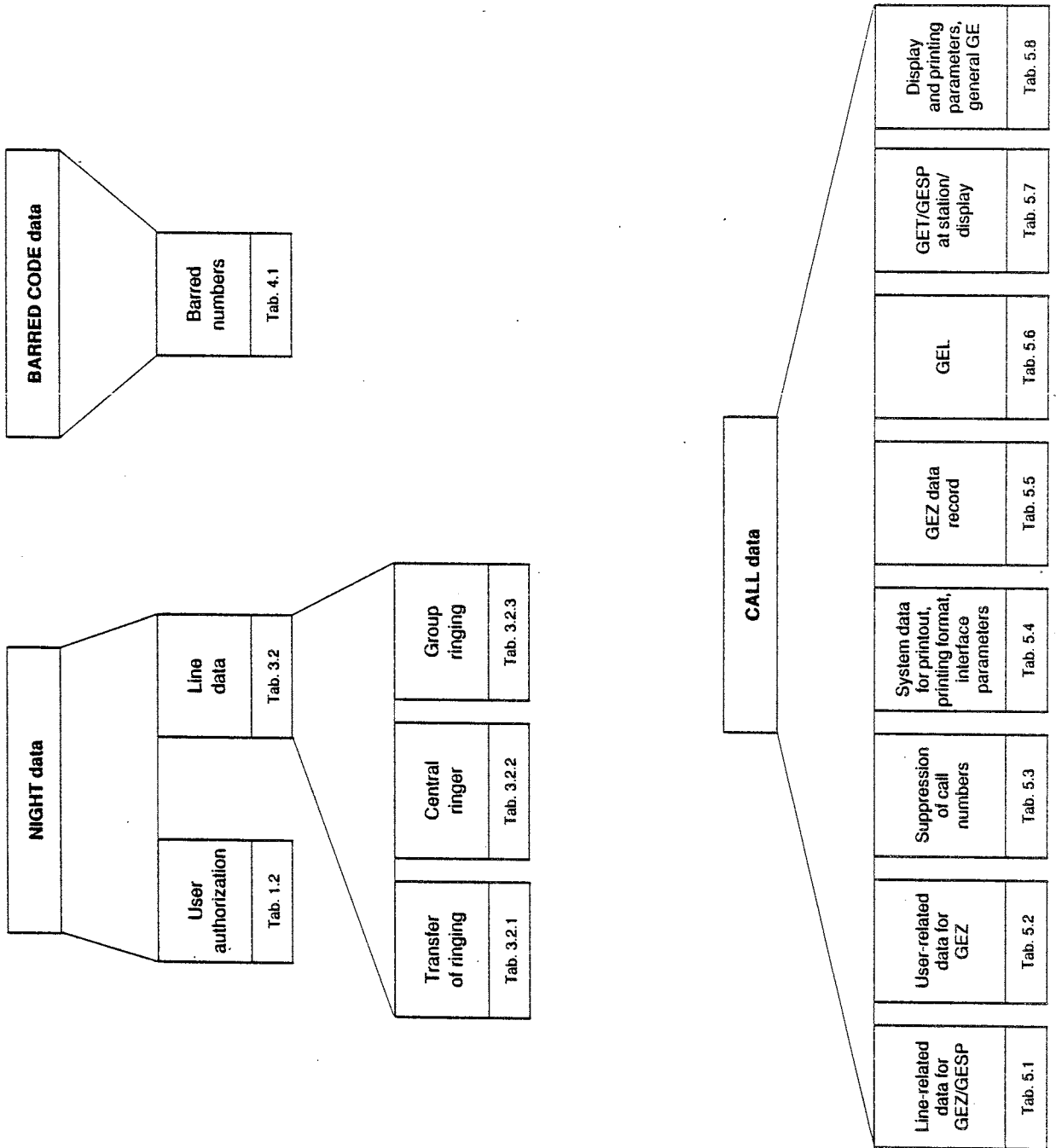


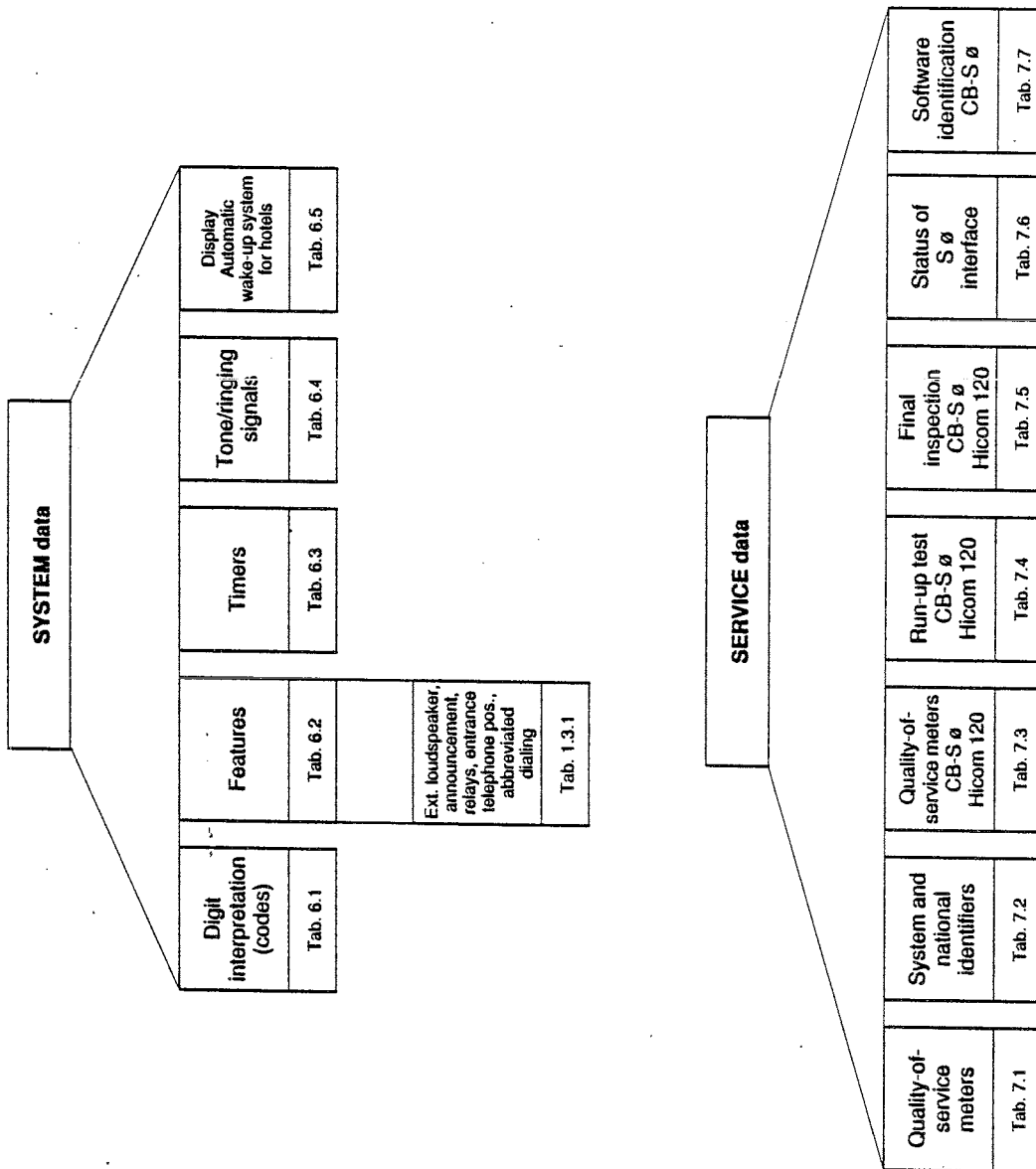
Figure 1.04 Keyfunctions Programming mode



This data is described in a separate manual of operating instructions.
Order No. A19100-K3112-G883- * -7619
The section numbers relate to the Service Manual A30950-S55-X- * -7620.







Country-specific data, see Tab. 8.1

T1.1

Dialling methods						* SWE
AC	ZC	Standard data		Entered data		Explanation
		1.ab	2.ab	1.ab	2.ab	
S1	01	10	(04)			1. a = 0 Line not present = 1 Dial pulsing = 2 DTMF = 3 Modulo 10 dialling for dial pulsing = 4 Line for ext. indication = 5 Line for ext. indication with autom. connection setup to TFE 1. b = 0 WS 48 without DID or 2nd PABX = 1 WS 48 with DID for OES only = 2 ÜFS with DID for OES only = 3 PFS without DID für OES only 2. ab = Signaling channel for LTB-U200 entered user positions cannot be connected.
	02	10	(05)			
	03	10	(06)			
	04	10	(07)			
	05	10	(12)			
	06	10	(13)			
	07	10	(14)			
	08	10	(15)			
S2*	101	11				a = 0 Release of line: not acknowledged by CO = 1 Release: acknowledged by CO b = 0 No End of dialling signal (ÜFS) = 1 End of dialling signal (ÜFS, ÜFW)
	102	11				
	103	11				
	104	11				
	105	11				
	106	11				

T1.2.1

Assignment of lines to Hicom 110 trunk group													* OES
Trunk group 1													
AC	ZC		1.	2.	3.	4.	5.	6.	7.	8.			Explanation
S2	81	Standard data	01	02	03	00							1st Line in system
		Entered data											Line position 00
Assignment of lines to Hicom 110 trunk group													
Trunk group 2													
AC	ZC		1.	2.	3.	4.	5.	6.	7.	8.			Explanation
S2	82	Standard data	—	—	—	—	—	—	—	—			1st Line in system
		Entered data											Line position 00

T1.2.2

Assignment of lines to Hicom 120 trunk group													* OES
Trunk group 1													
AC	ZC		1.	2.	3.	4.	5.	6.	7.	8.			Explanation
S2	81	Standard data	03	02	01	00	07	06	05	04			1st Line in system
		Entered data											Line position 00
Assignment of lines to Hicom 120 trunk group													
Trunk group 2													
AC	ZC		1.	2.	3.	4.	5.	6.	7.	8.			Explanation
S2	82	Standard data	—	—	—	—	—	—	—	—			1st Line in system
		Entered data											Line position 00

* For country-specific data, see Appendix.

T1.2.3

Alternate routing						
AC	ZC	Standard data		Entered data		Explanation
		1.ab	2.ab	1.ab	2.ab	
S2	187	—	—			1st entry = Trunk group 1 / 2nd entry = Trunk group 2 00 = Alt. rout. to trunk group 1 / Alt. rout. to trunk group 2 — = No alt. routing

Line seizure type						
AC	ZC	Standard data		Entered data		Explanation
		1.ab	2.ab	1.ab	2.ab	
S2	188	00	00			1st entry = Trunk group 1 / 2nd entry = Trunk group 2 00 = Linear seizure 01 = Circular seizure

T1.2.4

Call forwarding criteria for So DID											
AC	ZC	Line pos.	Standard data				Entered data				Explanation
			1.ab	2.ab	3.ab	4.ab	1.ab	2.ab	3.ab	4.ab	
S2	121	00	00	01	00	00					See below
	122	01	00	01	00	00					
	123	02	00	01	00	00					
	124	03	00	01	00	00					
	125	04	00	01	00	00					
	126	05	00	01	00	00					
	127	06	00	01	00	00					
	128	07	00	01	00	00					

- 1st entry
 - a = 0 Ext. call waiting if user busy and another call is waiting
 - a = 1 Reference to data position 1 b
 - b = 0 If user is busy, forward call to "desk"
 - b = 1 If user is busy, release to exchange
- 2nd entry
 - a = 0 Forward call to "desk" if wrong call number/user not available
 - a = 1 Release to exchange if wrong call number/user not available
 - b = 0 Forward call to "desk" if dialing not completed (not allowed in FRG)
 - b = 1 Release to exchange if dialing not completed
- 3rd-4th entries = Spare

T1.3.1

Transfer of ringing											
Line positions 00-07											
AC	ZC	Line pos.	Standard data				Entered data				Explanation
			1.	2.	3.	4.	1.	2.	3.	4.	
S2	31	00	01	00	03	-					1st entry = Transfer variant 00 = No transfer of ringing 01 = Transfer of ringing User A-B 02 = Transfer of ringing User A-B then search 03 = Transfer of ringing User A-B then search/stop 11 = Group ringing 2nd entry = Source user 00-23 = - = No User A; no transfer of ringing to User B 3rd entry = Desination user 00-23 = - = No User B; no transfer of ringing 4th entry = Indes of search system - = Search entire system 00 = Search table 1 01 = Search table 2
	32	01	01	00	03	-					
	33	02	01	00	03	-					
	34	03	01	00	03	-					
	35	04	01	00	03	-					
	36	05	01	00	03	-					
	37	06	01	00	03	-					
	38	07	01	00	03	-					

T1.3.2

Central ringer assignment					
Assignment to line positions 00-07					
AC	ZC	Line pos.	Standard data	Entered data	Explanation
S2	21	00	00		Entry = 00 Ringer off Entry = 10 Ringer on
	22	01	00		
	23	02	00		
	24	03	00		
	25	04	00		
	26	05	00		
	27	06	00		
	28	07	00		

T1.3.3

Assignment of users to search table														
Hunting group table 1														
AC	ZC		1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.
S2	51	Standard data	-	-	-	-	-	-	-	-	-	-	-	-
		Entered data												
Assignment of users to search table														
Hunting group table 2														
AC	ZC		1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.
S2	52	Standard data	-	-	-	-	-	-	-	-	-	-	-	-
		Entered data												

T1.3.4

Assignment of group ringing to line																				Explanation		
For line positions 00-07																						
AC	ZC	Line pos.	Standard data								Entered data								Explanation			
			1.	2.	3.	4.	5.	6.	7.	8.	1.	2.	3.	4.	5.	6.	7.	8.				
S2	41	00	—	—	—	—	—	—	—											All user positions must be entered consecutively!		
	42	01	—	—	—	—	—	—	—													
	43	02	—	—	—	—	—	—	—													
	44	03	—	—	—	—	—	—	—													
	45	04	—	—	—	—	—	—	—													
	46	05	—	—	—	—	—	—	—													
	47	06	—	—	—	—	—	—	—													
	48	07	—	—	—	—	—	—	—													
		Line pos.		Standard data								Entered data										
				9.	10.	11.	12.	13.	14.	15.	16.	9.	10.	11.	12.	13.	14.	15.	16.			
		41	00	—	—	—	—	—	—	—	—											
		42	01	—	—	—	—	—	—	—	—											
		43	02	—	—	—	—	—	—	—	—											
		44	03	—	—	—	—	—	—	—	—											
		45	04	—	—	—	—	—	—	—	—											
		46	05	—	—	—	—	—	—	—	—											
		47	06	—	—	—	—	—	—	—	—											
		48	07	—	—	—	—	—	—	—	—											
		Line pos.		Standard data								Entered data										
				17.	18.	19.	20.	21.	22.	23.	24.	17.	18.	19.	20.	21.	22.	23.	24.			
		41	00	—	—	—	—	—	—	—	—											
		42	01	—	—	—	—	—	—	—	—											
		43	02	—	—	—	—	—	—	—	—											
		44	03	—	—	—	—	—	—	—	—											
	45	04	—	—	—	—	—	—	—	—												
	46	05	—	—	—	—	—	—	—	—												
	47	06	—	—	—	—	—	—	—	—												
	48	07	—	—	—	—	—	—	—	—												

T1.4.1

Assignment of audible signal receiver/signal key * SWE

For line positions 00-07

AC	ZC	Standard data			Entered data			Explanation
		1.ab	2.ab	3.ab	1.ab	2.ab	3.ab	
S2	01	00	41	77				
	02	00	41	77				
	03	00	41	77				
	04	00	41	77				
	05	00	41	77				
	06	00	41	77				
	07	00	41	77				
	08	00	41	77				

1st entry a = 0 Connection to exchange line
 a = 1 Connection to PABX (PABX working)
 b = 0 Audible signal interpretation
 b = 1-9 Pause before dialing in sec., no audible sig. interpretation

2nd entry ab = 00 No signal function
 ab = 10 Ground function for key telephone
 ab = 21-99 Flash function
 Time = a x b x 20ms (min. 20, max. 1620ms)

3rd entry ab = 21-99 Ground button actuation for standard telephone, duration of signal for grounding to remote PABX
 Time = a x b x 20ms (min. 20, max. 1620ms)

Assignment of exchange codes/pause before dialing

For line positions 00-07, only for PABX line in S2 11-18, exchange code = 2. dialing information

AC	ZC	Standard data				Entered data				Explanation
		1.ab	2.ab	3.ab	4.ab	1.ab	2.ab	3.ab	4.ab	
S2	11	01	0	-	-					
	12	01	0	-	-					
	13	01	0	-	-					
	14	01	0	-	-					
	15	01	0	-	-					
	16	01	0	-	-					
	17	01	0	-	-					
	18	01	0	-	-					

1st entry a = 0 Without pause
 a = 1-9 Pause, time in sec.
 b = 0 Without audible signal
 b = 1 With audible sig. interpretation

2nd entry ab = 0-99 1st exchange code, signal key actuation (display R) = Ground
 ab = - Without exchange code

3rd entry ab = 0-99 2nd exchange code, signal key actuation (display R) = Ground
 ab = - Without exchange code

4th entry ab = 0-99 3rd exchange code, signal key actuation (display R) = Ground
 ab = - Without exchange code

* For country-specific data, see Appendix.

T1.4.2

Interpretation digits for 2nd audible signal						
AC	ZC	Standard data		Entered data		Explanation
		1.ab	2.abcde	1.ab	2.abcde	
S2	85	00	—			a = 0-5
	86	00	—			Number of digits
	87	00	—			b = Place for
	88	00	—			interval/interpretation
	89	00	—			of 2nd audible signal

Audible signal interpretation or dialing interval for 2nd audible signal				
AC	ZC	Standard data	Entered data	Explanation
S2	90	01		00 = Interpret audible sig., 01-30 = Dialing interval in sec.

T1.5

Display					
Text lengths/formats					
AC	ZC	Standard data	Entered data	Explanation	
S10	54	10		Line display format 00=Digit interpretation code, 10=Line number	
Line identification for external calls					
Line positions 00-07					
AC	ZC	Line pos.	Standard data	Entered data	Explanation
S10	61	00	10		Entry = 00 Line pos. Entry = 10 Line name
	62	01	10		
	63	02	10		
	64	03	10		
	65	04	10		
	66	05	10		
	67	06	10		
	68	07	10		

T2.1.1

Classes of service for features													* PBX	* POR	* SPA	* SWE
User positions 00-11																
AC	ZC	User pos.		1. ab	2. ab	3. ab	4. ab	5. ab	6. ab	7. ab	8. ab	9. ab	10. ab	11. ab	12. ab	
S3	75	00	Standard data	01	11	11	11	01	10	00	11	00	00	00	00	
			Entered data													
	76	01	02	Standard data	01	11	11	11	01	10	00	11	00	00	00	
				Entered data												
	77	02	03	Standard data	01	11	11	11	01	10	00	11	00	00	00	
				Entered data												
	78	03	04	Standard data	01	11	11	11	01	10	00	11	00	00	00	
				Entered data												
	79	04	05	Standard data	01	11	11	11	01	10	00	11	00	00	00	
				Entered data												
	80	05	06	Standard data	01	11	11	11	01	10	00	11	00	00	00	
				Entered data												
	81	06	07	Standard data	01	11	11	11	01	10	00	11	00	00	00	
				Entered data												
	82	07	08	Standard data	01	11	11	11	01	10	00	11	00	00	00	
				Entered data												
	83	08	09	Standard data	01	11	11	11	01	10	00	11	00	00	00	
				Entered data												
	84	09	10	Standard data	01	11	11	11	01	10	00	11	00	00	00	
				Entered data												
85	10	11	Standard data	01	11	11	11	01	10	00	11	00	00	00		
			Entered data													
86	11		Standard data	01	11	11	11	01	10	00	11	00	00	00		
			Entered data													

Explanation

- 1a = Dialing without 1 key
- 1b = Announcement/paging
- 2a = Call forwarding
- 2b = Do-not-disturb
- 3a = Message waiting
- 3b = External conference
- 4a = Data mode
- 4b = Voice calling
- 5a = Handsfree answer
- 5b = Standard telephone PABX
- 6a = Connect call signaling
- 6b = Override do-not-disturb

- 0 = Feature barred
- 1 = Feature enabled

- 7a = Abbreviated dialing, individual
- 7b = Abbreviated dialing, central
- 8a = Call waiting
- 8b = Override
- 9a = AUTO CALLBACK
- 9b =
- 10a =
- 10b =
- 11a = CALL PARK
- 11b =
- 12a =
- 12b =

* For country-specific data, see Appendix.

T2.1.1.1

Classes of service for features													* PBX * POR * SPA * SWE			
User positions 12-23																
AC	ZC	User pos.		1. ab	2. ab	3. ab	4. ab	5. ab	6. ab	7. ab	8. ab	9. ab	10. ab	11. ab	12. ab	
S3	87	12	Standard data	01	11	11	11	01	10	00	11	00	00	00	00	
			Entered data													
	88	13	Standard data	01	11	11	11	01	10	00	11	00	00	00	00	
			Entered data													
	89	14	Standard data	01	11	11	11	01	10	00	11	00	00	00	00	
			Entered data													
	90	15	Standard data	01	11	11	11	01	10	00	11	00	00	00	00	
			Entered data													
	91	16	Standard data	01	11	11	11	01	10	00	11	00	00	00	00	
			Entered data													
	92	17	Standard data	01	11	11	11	01	10	00	11	00	00	00	00	
			Entered data													
	93	18	Standard data	01	11	11	11	01	10	00	11	00	00	00	00	
			Entered data													
	94	19	Standard data	01	11	11	11	01	10	00	11	00	00	00	00	
			Entered data													
	95	20	Standard data	01	11	11	11	01	10	00	11	00	00	00	00	
			Entered data													
	96	21	Standard data	01	11	11	11	01	10	00	11	00	00	00	00	
			Entered data													
97	22	Standard data	01	11	11	11	01	10	00	11	00	00	00	00		
		Entered data														
98	23	Standard data	01	11	11	11	01	10	00	11	00	00	00	00		
		Entered data														

Explanation

- | | |
|------------------------------|--------------------------------------|
| 1a = Dialing without I key | 7a = Abbreviated dialing, individual |
| 1b = Announcement/paging | 7b = Abbreviated dialing, central |
| 2a = Call forwarding | 8a = Call waiting |
| 2b = Do-not-disturb | 8b = Override |
| 3a = Message waiting | |
| 3b = External conference | |
| 4a = Data mode | |
| 4b = Voice calling | |
| 5a = Handsfree answer | |
| 5b = Standard telephone PABX | |
| 6a = Connect call signaling | |
| 6b = Override do-not-disturb | |
| 0 = Feature barred | |
| 1 = Feature enabled | |

* For country-specific data, see Appendix.

T2.1.2

Dialing authorization (daytime service)																			
User positions 00-23 for line positions 00-07																			
AC	ZC	User pos.	Standard data / ab								Entered data / ab								Explanation
			1.	2.	3.	4.	5.	6.	7.	8.	1.	2.	3.	4.	5.	6.	7.	8.	
S3	11	00	07	17	27	37	47	57	67	77									See below
	12	01	07	17	27	37	47	57	67	77									
	13	02	07	17	27	37	47	57	67	77									
	14	03	07	17	27	37	47	57	67	77									
	15	04	07	17	27	37	47	57	67	77									
	16	05	07	17	27	37	47	57	67	77									
	17	06	07	17	27	37	47	57	67	77									
	18	07	07	17	27	37	47	57	67	77									
	19	08	07	17	27	37	47	57	67	77									
	20	09	07	17	27	37	47	57	67	77									
	21	10	07	17	27	37	47	57	67	77									
	22	11	07	17	27	37	47	57	67	77									
	23	12	07	17	27	37	47	57	67	77									
	24	13	07	17	27	37	47	57	67	77									
	25	14	07	17	27	37	47	57	67	77									
	26	15	07	17	27	37	47	57	67	77									
	27	16	07	17	27	37	47	57	67	77									
	28	17	07	17	27	37	47	57	67	77									
	29	18	07	17	27	37	47	57	67	77									
	30	19	07	17	27	37	47	57	67	77									
	31	20	07	17	27	37	47	57	67	77									
	32	21	07	17	27	37	47	57	67	77									
	33	22	07	17	27	37	47	57	67	77									
	34	23	07	17	27	37	47	57	67	77									

Explanation

- Entry a = Line position (cannot be changed)
- Entry b
 - 0 = No line access/no direct trunk access
 - 1 = Line scanning authorization/outward restricted
 - 2 = See toll restriction data
 - 3 = See toll restriction data
 - 4 = See toll restriction data
 - 5 = See toll restriction data
 - 6 = See toll restriction data
 - 7 = No toll restriction data (international)

T2.1.3

Simplified dialing (prime line)																				
User positions 00-23 / Seizure sequence for 1st-8th prime line																				
AC	ZC	User pos.	Standard data								Entered data								Explanation	
			1.	2.	3.	4.	5.	6.	7.	8.	1.	2.	3.	4.	5.	6.	7.	8.		
S3	51	00	—	—	—	—	—	—	—	—										See below
	52	01	—	—	—	—	—	—	—	—										
	53	02	—	—	—	—	—	—	—	—										
	54	03	—	—	—	—	—	—	—	—										
	55	04	—	—	—	—	—	—	—	—										
	56	05	—	—	—	—	—	—	—	—										
	57	06	—	—	—	—	—	—	—	—										
	58	07	—	—	—	—	—	—	—	—										
	59	08	—	—	—	—	—	—	—	—										
	60	09	—	—	—	—	—	—	—	—										
	61	10	—	—	—	—	—	—	—	—										
	62	11	—	—	—	—	—	—	—	—										
	63	12	—	—	—	—	—	—	—	—										
	64	13	—	—	—	—	—	—	—	—										
	65	14	—	—	—	—	—	—	—	—										
	66	15	—	—	—	—	—	—	—	—										
	67	16	—	—	—	—	—	—	—	—										
	68	17	—	—	—	—	—	—	—	—										
	69	18	—	—	—	—	—	—	—	—										
	70	19	—	—	—	—	—	—	—	—										
	71	20	—	—	—	—	—	—	—	—										
	72	21	—	—	—	—	—	—	—	—										
	73	22	—	—	—	—	—	—	—	—										
	74	23	—	—	—	—	—	—	—	—										

Entry 00-23 = Seizure sequence of line positions for simplified dialing (prime line)
 — = No simplified dialing (no prime line)

T2.1.4

2nd call number for a user position or reception telephone position				
AC	ZC	Standard data	Entered data	Explanation
S1	61	00		Entry = User pos. for which 2nd call number was assigned (additional entry required in S11*56)

Additional night service activation authorization				
AC	ZC	Standard data	Entered data	Explanation
S3	41	00		Entry: 00-23 = User position of station — = all telephones

T2.1.5

Code lock, entral; code numbers; activation; classes of service				
Class-of-service changeover authorization				
AC	ZC	Standard data	Entered data	Explanation
S3	130	—		Code number for class-of-service changeover from a central station (entry max. 5 digits)
	131	—		User pos. entitled to change class of service (00-23)
	132	00		Authorization when central code lock enabled 00 = No line access, 01 = Line scanning authorization, 02-03 = See toll restriction data

T2.1.6

Code lock					
User positions 00-23					
AC	ZC	User pos.	Standard abcde	Entered abcde	Explanation
S3	101	00	20200		Code lock code number = ((ZC + User pos.) x 100) x 2 Codeword 5-digit max. Codewords must be entered consecutively.
	102	01	20402		
	103	02	20604		
	104	03	20806		
	105	04	21008		
	106	05	21210		
	107	06	21412		
	108	07	21614		
	109	08	21816		
	110	09	22018		
	111	10	22220		
	112	11	22422		
	113	12	22624		
	114	13	22826		
	115	14	23028		
	116	15	23230		
	117	16	23432		
	118	17	23634		
	119	18	23836		
	120	19	24038		
	121	20	24240		
	122	21	24442		
	123	22	24644		
	124	23	24846		

T2.1.7

Assignment of VBZ groups to users

AC	ZC	User pos.	Standard data	Entered data	Explanation
S3	201	00	00		Entry — = No Group 00-03 = Group number(S3*231-234)
	202	01	00		
	203	02	00		
	204	03	00		
	205	04	00		
	206	05	00		
	207	06	00		
	208	07	00		
	209	08	00		
	210	09	00		
	211	10	00		
	212	11	00		
	213	12	00		
	214	13	00		
	215	14	00		
	216	15	00		
	217	16	00		
	218	17	00		
	219	18	00		
	220	19	00		
	221	20	00		
	222	21	00		
	223	22	00		
	224	23	00		

T2.1.8

VBZ groups

AC	ZC	Standard data				Entered data				Explanation
		1.ab	2.ab	3.ab	4.ab	1.ab	2.ab	3.ab	4.ab	
S3	231	11	11	00	00					Group 0
	232	00	10	00	00					Group 1
	233	11	11	00	00					Group 2
	234	00	11	00	00					Group 3

1st entry a = Group 0

b = " 1

2nd entry a = " 2

b = " 3

3rd+4th entries = Spare

0 = Connection not allowed

1 = Connection allowed

T2.1.9

Assignment of hotline destination					
User positions 00-23					
AC	ZC	User pos.	Standard data	Entered data	Explanation
S3	271	00	—		Entry 00-23 = User position of hotline destination Entry — = No user is called
	272	01	—		
	273	02	—		
	274	03	—		
	275	04	—		
	276	05	—		
	277	06	—		
	278	07	—		
	279	08	—		
	280	09	—		
	281	10	—		
	282	11	—		
	283	12	—		
	284	13	—		
	285	14	—		
	286	15	—		
	287	16	—		
	288	17	—		
	289	18	—		
	290	19	—		
	291	20	—		
	292	21	—		
	293	22	—		
294	23	—			

T2.1.10

Hotline activation time					
User positions 00-23					
AC	ZC	User pos.	Standard data	Entered data	Explanation
S3	301	00	00		Entry 00-99 = Time (in sec.) that must elapse before hotline destination is called
	302	01	00		
	303	02	00		
	304	03	00		
	305	04	00		
	306	05	00		
	307	06	00		
	308	07	00		
	309	08	00		
	310	09	00		
	311	10	00		
	312	11	00		
	313	12	00		
	314	13	00		
	315	14	00		
	316	15	00		
	317	16	00		
	318	17	00		
	319	18	00		
	320	19	00		
	321	20	00		
	322	21	00		
	323	22	00		
	324	23	00		

T2.2

Terminal type							* PBX * SPA
User positions 00-23							
AC	ZC	User pos.	Standard data		Entered data		Explanation
			1.ab	2.ab	1.ab	2.ab	
S1	11	00	00	00			
	12	01	00	01			
	13	02	00	02			
	14	03	00	03			
	15	04	00	04			
	16	05	00	05			
	17	06	00	06			
	18	07	00	07			
	19	08	00	08			
	20	09	00	09			
	21	10	00	10			
	22	11	00	11			
	23	12	00	12			
	24	13	00	13			
	25	14	00	14			
	26	15	00	15			
	27	16	00	16			
	28	17	00	17			
	29	18	00	18			
	30	19	00	19			
31	20	00	20				
32	21	00	21				
33	22	00	22				
34	23	00	23				

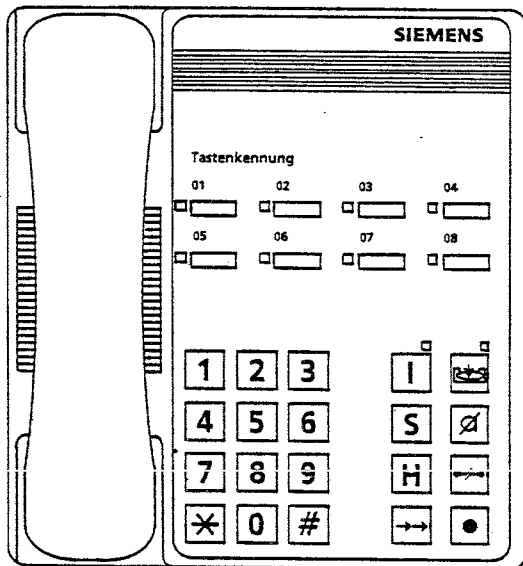
- | | |
|--|---|
| 1 a = 0 Not a data station | b = 3 Standard tel., DTMF or supplementary equipment |
| a = 1 Permanent data station | b = 4 Standard tel., dial pulsing, parallel key tel. (standard tel. priority) |
| a = 2 Temporary data line security with standard telephone enabled | b = 5 Standard tel., DTMF, parallel key tel. (standard tel. priority) |
| a = 3 Komplement 10-dial standard telephone without data line security | b = 6 Standard tel., dial pulsing, parallel key tel. (key tel. priority) |
| a = 4 Komplement 10-dial standard telephone with data line security | b = 7 Standard tel., DTMF, parallel key tel. (key tel. priority) |
| a = 5 Komplement 10-dial standard telephone without temporary data line security | b = 8 Dialing aid (dial pulsing) |
| a = 6 Komplement 10-dial standard telephone with temporary data line security | b = 9 Dialing aid (DTMF) |
| b = 0 Key telephone/entrance telephone/announcement telephone, no standard telephone | ab = - Terminal does not operate (software lock) |
| b = 1 Standard tel., dial pulsing or supplementary equipment | 2 ab = Position of the a/b interface assigned to the port |
| b = 2 Advanced provisioning | |

* For country-specific data, see Appendix.

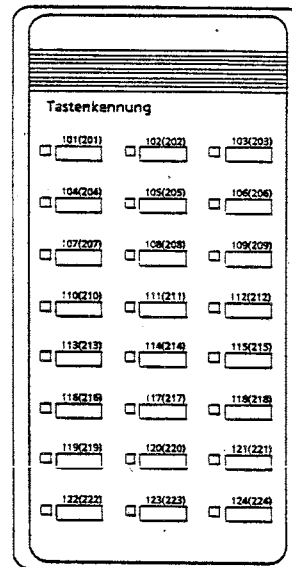
Explanation of key assignments

Arrangement of keys on telephone:

SET 121 T8

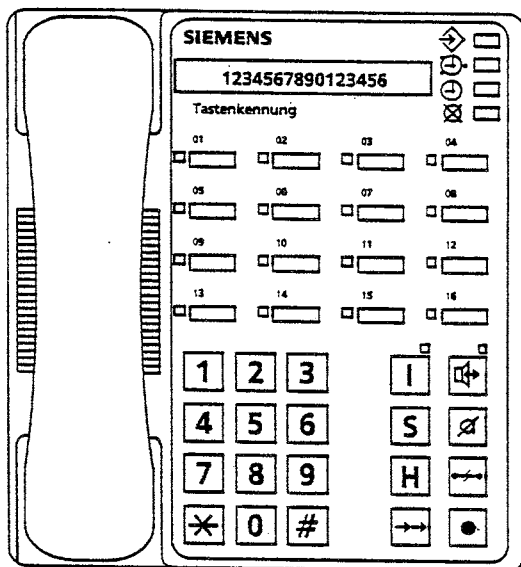


Terminal expansion SET 120/SET 120 c/d



The figures in brackets refer to the 2nd level of the terminal expansion.

SET 121 T16 D



Explanation of key assignments

Arrangement of keys on telephone:

SET 151 T16

SIEMENS HICOM

Tastenkennung

01		02	
03		04	
05		06	
07		08	

Service Halten
Briefk. Rückfr.
Lautspr. Wahlw.
Intern Trennen

1 2 3
4 5 6
7 8 9
* 0 #

Terminal expansion SET 150 (c/d)

SIEMENS HICOM

Tastenkennung

101 (201)		102 (202)	
103 (203)		104 (204)	
105 (205)		106 (206)	
107 (207)		108 (208)	
109 (209)		110 (210)	
111 (211)		112 (212)	
113 (213)		114 (214)	
115 (215)		116 (216)	
117 (217)		118 (218)	
119 (219)		120 (220)	
121 (221)		122 (222)	
123 (223)		124 (224)	
125 (225)		126 (226)	
127 (227)		128 (228)	
		129 (229)	

The figures in brackets refer to the 2nd level of the terminal expansion.

SET 151 T24 D, T 28

SIEMENS HICOM

Alpha-numerisches Display
24-stellig x 2-zeilig

Tastenkennung

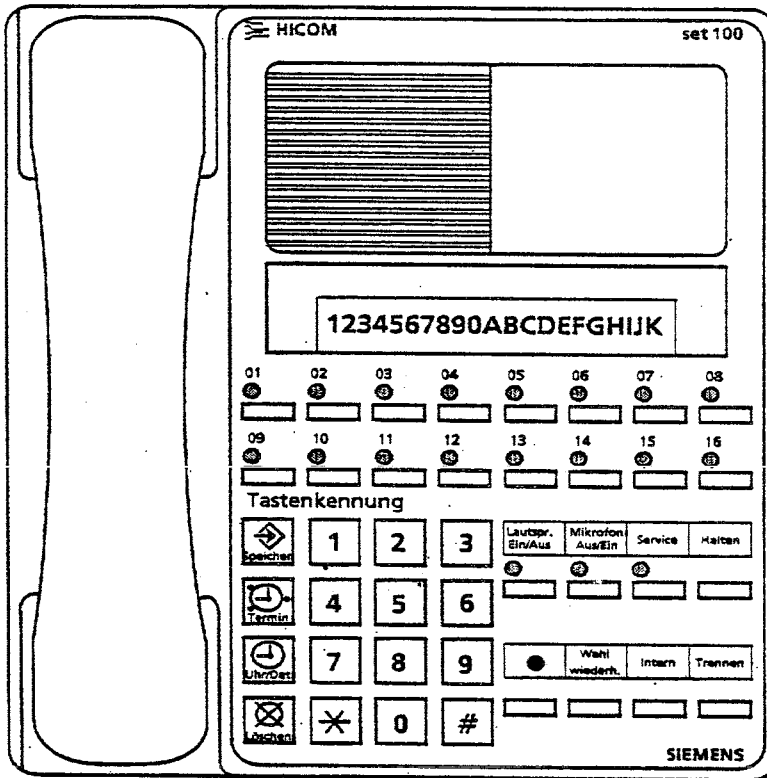
01		02	
03		04	
05		06	
07		08	
09		10	
11		12	
13		14	
15		16	

1 2 3
4 5 6
7 8 9
* 0 #

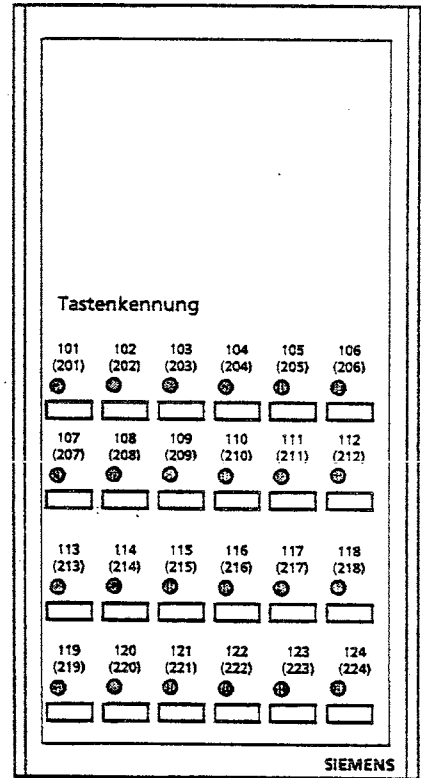
Explanation of key assignments

Arrangement of keys on telephone:

SET 181



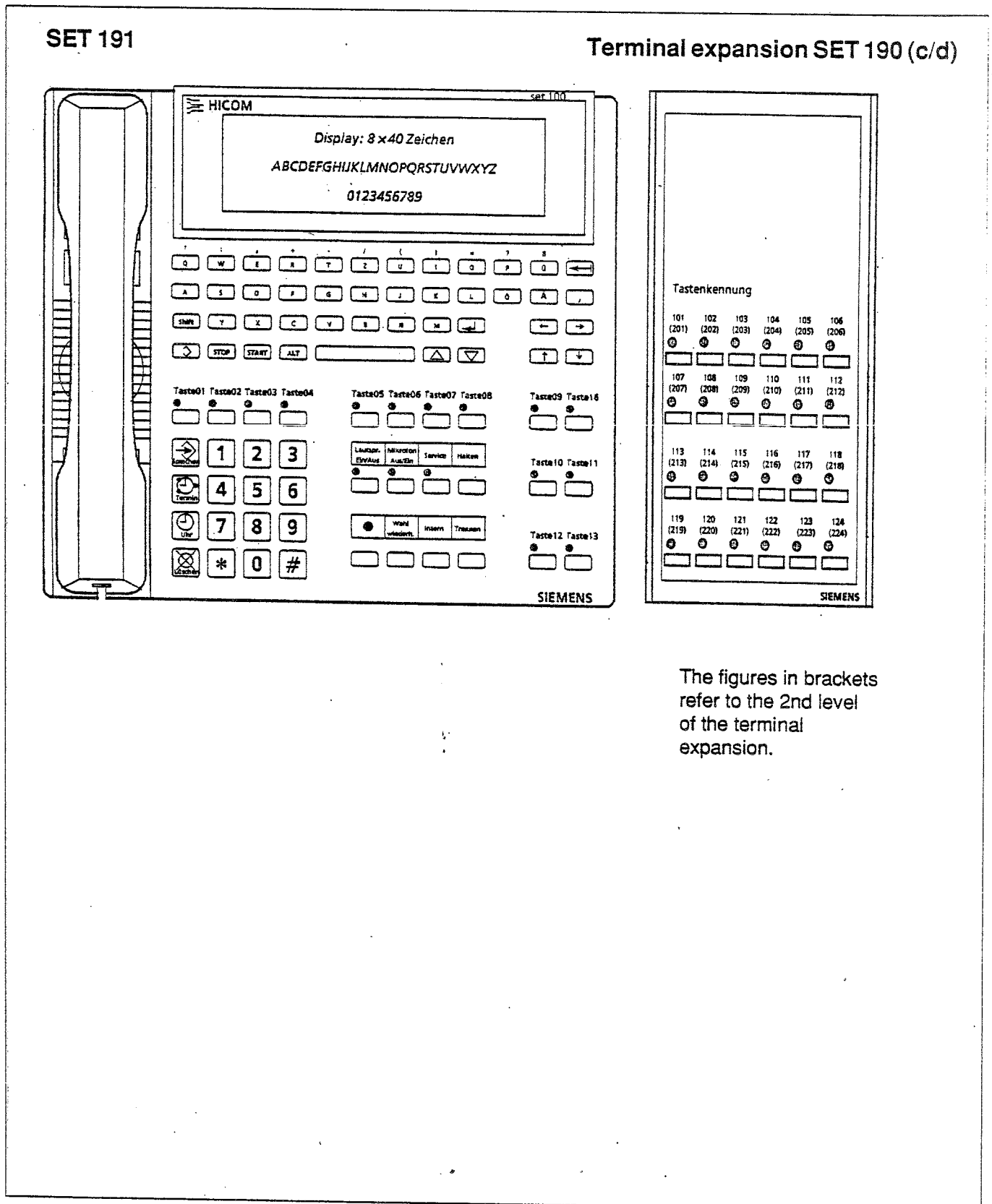
Terminal expansion SET 180



The figures in brackets refer to the 2nd level of the terminal expansion.

Explanation of key assignments

Arrangement of keys on telephone:



The figures in brackets refer to the 2nd level of the terminal expansion.

KEY ASSIGNMENTS		
Data for key programming		
	1st entry ab	2nd entry ab
Without contents	00	00
Line keys		
Line key for line number with Pos. 00	01	00
Line key for line number with Pos. 07	01	07
DSS keys (internal ringing keys)		
DSS keys for user with Pos. 00	02	00
DSS keys for user with Pos. 23	02	23
Feature keys		
Open answering (standard tel. and DTMF only)	03	00
Last number redial (standard tel. and DTMF only)	04	00
Normal telephone (NoFe) DTMF Consultation in PABX	05	00
Unstore entry into KW	08	00
Line reservation	09	00
Canceling a feature	10	00
Call forwarding to user with Pos. 00	11	00
Call forwarding to user with Pos. 23	11	23
Call forwarding (incomplete service)	11	—
Entry point for code lock	12	00
Do-not-disturb	13	00
Night service, fixed	14	24
Night service, variable for user with Pos. 00	14	00
Night service, variable for user with Pos. 23	14	23
Night service (incomplete service)	14	—
Relay 1	15	00
Relay 2	15	01
Relay 3	15	02
Relay 4	15	03
Callback request	16	00
Notebook	17	00
Voice calling of user with Pos. 00	18	00
Voice calling of user with Pos. 00	18	23
Voice calling (incomplete service)	18	—

KEY ASSIGNMENTS		
Data for key programming		
	1st entry ab	2nd entry ab
Absent user texts		
1st absent user text	19	00
2nd absent user text	19	01
.	.	.
10th absent user text	19	09
Absent user text (incomplete service)	19	—
2 entry = 00 - 09 (text number)		
2 entry = 00 -- (text number must be post-dialed)		
Abbreviated dialing keys		
(can only be retrieved)		
Abbreviated call number, individual for Memory 00	20	00
Abbreviated call number, individual for Memory 01	20	01
.	.	.
Abbreviated call number, individual für Memory 32	20	32
Abbreviated call number, central for Memory 10	21	10
Abbreviated call number, central for Memory 11	21	11
.	.	.
Abbreviated call number, central for Memory 99	21	99
Saved number redial		
	29	00
Message texts		
1st message text	30	—
2nd message text	31	—
.	.	.
10th message text	39	—
Entry 1a = Code for variable texts		
Entry 1b = Text number		
2nd entry = Destination user pos. or -- for incomplete service		
Announcement/paging keys		
All areas	40	00
Announcement/paging area 1 (internal)	40	01
Announcement/paging area 2 (internal)	40	02
Announcement/paging areas 1 and 2	40	03
Announcement/paging area 3 (external)	40	04
Announcement/paging area (incomplete service)	40	—

KEY ASSIGNMENTS Data for key programming		
	1. Eintrag ab	2. Eintrag ab
Connect call signaling		
Connect call signaling for Line number with pos. 00	41	00
Connect call signaling for Line number with pos. 01	41	01
Connect call signaling for Line number with pos. 07	41	07
Connect call signaling (incomplete service) 2nd entry = 00-07 (line pos.) = — (line pos. must be selected)	41	—
Call forwarding per line (incomplete service)	42	00
Answering call waiting and alerting tone	43	00
Third party monitoring (2nd entry = Destination user pos. or — incomplete service)	44	—
Override	45	00
TeleTime: start	47	00-99
TeleTime: stop	48	00-99
Conference	50	00
Data terminal	51	00
Entry point into accounting code procedure	52	00

KEY ASSIGNMENTS		
Data for key programming		
	1. Eintrag ab	2. Eintrag ab
Entry point into GET/GEL procedures	59	00
Printing		
of GET summation memory (metering pulses)	60	—
of GET delta memory (metering pulses)	61	—
of GEL summation memory (metering pulses)	62	—
of GEL delta memory (metering pulses)	63	—
of GET summation memory (cost)	64	—
of GET delta memory (cost)	65	—
of GEL summation memory (cost)	66	—
of GEL delta memory (cost)	67	—
Printing and deleting		
of GET summation memory (metering pulses)	68	—
of GET delta memory (metering pulses)	69	—
of GEL summation memory (metering pulses)	70	—
of GEL delta memory (metering pulses)	71	—
of GET summation memory (cost)	72	—
of GET delta memory (cost)	73	—
of GEL summation memory (cost)	74	—
of GEL delta memory (cost)	75	—
Displaying		
of GET summation memory (metering pulses)	76	—
of GET delta memory (metering pulses)	77	—
of GEL summation memory (metering pulses)	78	—
of GEL delta memory (metering pulses)	79	—
of GET summation memory (cost)	80	—
of GET delta memory (cost)	81	—
of GEL summation memory (cost)	82	—
of GEL delta memory (cost)	83	—
Displaying and deleting		
of GET summation memory (metering pulses)	84	—
of GET delta memory (metering pulses)	85	—
of GEL summation memory (metering pulses)	86	—
of GEL delta memory (metering pulses)	87	—
of GET summation memory (cost)	88	—
of GET delta memory (cost)	89	—
of GEL summation memory (cost)	90	—
of GEL delta memory (cost)	91	—
... 2nd entry in accordance with the following list:		
ab = 00 - 23 (User po. for GET)		
= 00 - 07 (Line pos. for GEL)		
= — (User or line number must be post-dialed)		
= 99 (All users or lines will be processed)		

KEY ASSIGNMENTS for hotel functions
Data for key programming (call S8 · user pos. · key code)

	1st entry	2nd entry
Standard tel. with ABCD keys only		
Room monitoring	128	00
Key tel. and standard tel. with ABCD keys only		
Wake-up time programming	129	00
Reception tel. only		
Check-in	130	00
Check-Out	130	01
Status	130	02
Deadline	130	03
Wake-up OK	130	04
Wake-up unsuccessful	130	05
Pay	130	06
Print	130	07
Total accounting	130	08
Itemized accounting	130	09
Exchange access on	130	10
Exchange access off	130	11
Direct ringing on	130	12
Direct ringing off	130	13
Guest/guest connection on	130	14
Guest/guest connection off	130	15
Direct inward dialing on	130	16
Direct inward dialing off	130	17
Message on	130	18
Message off	130	19
Room status 0 on	130	20
Room status 0 off	130	21
Room status 1 on	130	22
Room status 1 off	130	23

A key is programmed as follows:

Call with S8*
Followed by user pos. no. xx*
Followed by key no. yy* / yyy*

xx = 00 to 23

yy = 01 to 16 für set 121, 151, 181

yy = 01 to 16 für set 191, IMPORTANT: Keys 14/15 remain unassigned and must be released if applicable!!!

yyy = 101 to 124 for console set 120, 180, 190; 1st level

yyy = 201 to 224 for console set 120, 180, 190; 2nd level

yyy = 101 to 129 for console set 150, 1st level

yyy = 201 to 229 for console set 150, 2nd level

Same for C/D consoles of the assigned position; call the source position of the console here.

ABCD key layout

Call with S8*
Followed by user pos. no. xx
Followed by code 324
1st + 2nd entries Key A
3rd + 4th entries Key B
5th + 6th entries Key C
7th + 8th entries Key D

Busy lamp layout

Call with S8*
Followed by user pos. no. xx (this user is indicated for positions with 1 entry)
Followed by code 325
Data position 1 Lage 00/01 Eintrag 1 = an / 0 = aus
Data position 2 Lage 02/03 Eintrag 1 = an / 0 = aus
Data position 3 Lage 04/05 Eintrag 1 = an / 0 = aus
Data position 4 Lage 06/07 Eintrag 1 = an / 0 = aus
Data position 5 Lage 08/09 Eintrag 1 = an / 0 = aus
Data position 6 Lage 10/11 Eintrag 1 = an / 0 = aus
Data position 7 Lage 12/13 Eintrag 1 = an / 0 = aus
Data position 8 Lage 14/15 Eintrag 1 = an / 0 = aus
Data position 9 Lage 16/17 Eintrag 1 = an / 0 = aus
Data position 10 Lage 18/19 Eintrag 1 = an / 0 = aus
Data position 11 Lage 20/21 Eintrag 1 = an / 0 = aus
Data position 12 Lage 22/23 Eintrag 1 = an / 0 = aus

© The standard data is shown for the first 3 users positions. A blank sheet is provided for further special programming and can be copied as needed. These copies are then to be inserted at the back of the customer data book.

T2.3.1

Key assignments, Hicom 110											* OES
User position 00											
AC	TLC	Key no. • 1st entry ab • then 2nd entry ab								Explanation	
S8	00	01	02	03	04	05	06	07	08	Key no. set T8 / set T16	
		01 00	01 01	01 02	01 03	01 04	01 05	01 06	01 07	Standard data	
										Entered data	
		09	10	11	12	13	14	15	16	Important: set 191 does not have keys 14 + 15; program as 00 00!	
		02 01	02 02	02 03	02 04	02 05	02 06	02 07	16 00		
								Entered data			
Key assignments, console, 1st level											
User position 00 If connected to a console, the default setting for keys 09 to 15 of the telephone is 00 00.											
AC	TLC	Key no. • 1st entry ab • then 2nd entry ab								Explanation	
S8	00	101	102	103	104	105	106	107	108	Key no.	
		02 01	02 02	02 03	02 04	02 05	02 06	02 07	00 08	Standard data	
										Entered data	
		109	110	111	112	113	114	115	116	Key no.	
		02 09	02 10	02 11	02 12	02 13	02 14	02 15	02 16	Standard data	
										Entered data	
		117	118	119	120	121	122	123	124	Key no. 124 for set T29 = 02 24	
		02 17	02 18	02 19	02 20	02 21	02 22	02 23	25 01	Standard data	
										Entered data	
		125	126	127	128	129				set T29	
02 25	02 26	02 27	02 28	25 01				Standard data			
								Entered data			
Key assignments, console, 2nd level											
User position 00											
AC	TLC	Key no. • 1st entry ab • then 2nd entry ab								Explanation	
S8	00	201	202	203	204	205	206	207	208	Key no.	
		00 00	00 00	00 00	00 00	00 00	00 00	00 00	00 00	Standard data	
										Entered data	
		209	210	211	212	213	214	215	216	Key no.	
		00 00	00 00	00 00	00 00	00 00	00 00	00 00	00 00	Standard data	
										Entered data	
		217	218	219	220	221	222	223	224	Key no. 224 for set T29 = 00 00	
		00 00	00 00	00 00	00 00	00 00	00 00	00 00	25 01	Standard data	
										Entered data	
		225	226	227	228	229				set T29	
00 00	00 00	00 00	00 00	25 01				Standard data			
								Entered data			
Key assignments, ABCD (DTMF, standard tel.)											
User position 00											
AC	TLC	ZC	Entry				Explanation				
S8	00	324	01 02	03 04	05 06	07 08					
			16 00	03 00	11 -	04 00	Standard data				
							Entered data				
Terminal-location-related LED activation											
User position 00											
AC	TLC	ZC	Entries				Explanation				
S8	00	325	1	2	3	4					
			11	11	11	11	Standard data				
							Entered data 1 = on / 0 = off				

* For country-specific data, see Appendix.

T2.3.2

Key assignments, Hicom 110											* OES
User position 01											
AC	TLC	Key no. • 1st entry ab • then 2nd entry ab								Explanation	
S8	01	01	02	03	04	05	06	07	08	Key no. set T8 /set T16	
		01 00	01 01	01 02	01 03	01 04	01 05	01 06	01 07	Standard data	
										Entered data	
		09	10	11	12	13	14	15	16	Important: set 191 does not have keys 14 + 15; program as 00 00!	
		02 00	02 02	02 03	02 04	02 05	02 06	02 07	16 00		
											Entered data
Key assignments, console, 1st level											
User position 01 If connected to a console, the default setting for keys 09 to 15 of the telephone is 00 00.											
AC	TLC	Key no. • 1st entry ab • then 2nd entry ab								Explanation	
S8	01	101	102	103	104	105	106	107	108	Key no.	
		02 00	02 02	02 03	02 04	02 05	02 06	02 07	02 08	Standard data	
										Entered data	
		109	110	111	112	113	114	115	116	Key no.	
		02 09	02 10	02 11	02 12	02 13	02 14	02 15	02 16	Standard data	
										Entered data	
		117	118	119	120	121	122	123	124	Key no. 124 for set T29 = 02 24	
		02 17	02 18	02 19	02 20	02 21	02 22	02 23	25 01	Standard data	
										Entered data	
		125	126	127	128	129				set T29	
00 00	00 00	00 00	00 00	25 01				Standard data			
								Entered data			
Key assignments, console, 2nd level											
User position 01											
AC	TLC	Key no. • 1st entry ab • then 2nd entry ab								Explanation	
S8	01	201	202	203	204	205	206	207	208	Key no.	
		00 00	00 00	00 00	00 00	00 00	00 00	00 00	00 00	Standard data	
										Entered data	
		209	210	211	212	213	214	215	216	Key no.	
		00 00	00 00	00 00	00 00	00 00	00 00	00 00	00 00	Standard data	
										Entered data	
		217	218	219	220	221	222	223	224	Key no. 224 for set T29 = 00 00	
		00 00	00 00	00 00	00 00	00 00	00 00	00 00	25 01	Standard data	
										Entered data	
		225	226	227	228	229				set T29	
00 00	00 00	00 00	00 00	25 01				Standard data			
								Entered data			
Key assignments, ABCD (DTMF, standard tel.)											
User position 01											
AC	TLC	ZC	Entry				Explanation				
S8	01	324	01 02	03 04	05 06	07 08	Standard data				
			16 00	03 00	11 –	04 00					
								Entered data			
Terminal-location-related LED activation											
User position 01											
AC	TLC	ZC	Entries				Explanation				
S8	01	325	1	2	3	4	Standard data				
			11	11	11	11					
								Entered data 1 = on / 0 = off			

* For country-specific data, see Appendix.

T2.3.3

Key assignments, Hicom 110										* OES
User position 02										
AC	TLC	Key no. * 1st-entry ab * then 2nd entry ab								Explanation
S8	02	01	02	03	04	05	06	07	08	Key no. set T8 /set T16
		01 00	01 01	01 02	01 03	19	17 00	11	18	Standard data
										Entered data
		09	10	11	12	13	14	15	16	Important: set 191 does not have keys 14 + 15; program as 00 00!
		02 01	02 00	02 03	02 04	02 05	02 06	02 07	16 00	
										Entered data
set T16										
Key assignments, console, 1st level										
User position 02 If connected to a console, the default setting for keys 09 to 15 of the telephone is 00 00.										
AC	TLC	Key no. * 1st entry ab * then 2nd entry ab								Explanation
S8	02	101	102	103	104	105	106	107	108	Key no.
		02 01	02 00	02 03	02 04	02 05	02 06	02 07	00 00	Standard data
										Entered data
		109	110	111	112	113	114	115	116	Key no.
		00 00	00 00	00 00	00 00	00 00	00 00	00 00	00 00	Standard data
										Entered data
		117	118	119	120	121	122	123	124	Key no. 124 für set T29 = 02 24
		00 00	00 00	00 00	00 00	00 00	00 00	00 00	25 01	Standard data
										Entered data
		125	126	127	128	129				set T29
		00 00	00 00	00 00	00 00	25 01				Standard data
										Entered data
Key assignments, console, 2nd level										
User position 02										
AC	TLC	Key no. * 1st entry ab * then 2nd entry ab								Explanation
S8	02	201	202	203	204	205	206	207	208	Key no.
		00 00	00 00	00 00	00 00	00 00	00 00	00 00	00 00	Standard data
										Entered data
		209	210	211	212	213	214	215	216	Key no.
		00 00	00 00	00 00	00 00	00 00	00 00	00 00	00 00	Standard data
										Entered data
		217	218	219	220	221	222	223	224	Key no. 224 für set T29 = 00 00
		00 00	00 00	00 00	00 00	00 00	00 00	00 00	25 01	Standard data
										Entered data
		225	226	227	228	229				set T29
		00 00	00 00	00 00	00 00	25 01				Standard data
										Entered data
Key assignments, ABCD (DTMF, standard tel.)										
User position 02										
AC	TLC	ZC	Entry				Explanation			
S8	02	324	01 02	03 04	05 06	07 08				
			16 00	03 00	11	04 00	Standard data			
							Entered data			
Terminal-location-related LED activation										
User position 02										
AC	TLC	ZC	Entries				Explanation			
S8	02	325	1	2	3	4				
			11	11	11	11	Standard data			
							Entered data 1 = on / 0 = off			

* For country-specific data, see Appendix.

T2.3.4

Key assignments, Hicom 110											
User position from to											
AC	TLC	Key no. • 1st entry ab • then 2nd entry ab								Explanation	
S8	01	02	03	04	05	06	07	08	Key no. set T8 /set T16	
										Standard data	
											Entered data
		09	10	11	12	13	14	15	16	Important: set 191 does not have keys 14 + 15; program as 00 00!	
											Entered data

Key assignments, console, 1st level **COPY THIS PAGE AS NEEDED AND INSERT AT BACK OF BOOK**
 If connected to a console, the default setting for keys 09 to 15 of the telephone is 00 00.

User position from to											
AC	TLC	Tastennummer • 1. Eintrag ab • dann 2. Eintrag ab								Explanation	
S8	101	102	103	104	105	106	107	108	Key no.	
										Standarddaten	
											Entered data
		109	110	111	112	113	114	115	116	Key no.	
											Standard data
											Entered data
		117	118	119	120	121	122	123	124	Key no. 124 für set T29 = 02 24	
									25 01	Standard data	
											Entered data
		125	126	127	128	129					set T29

Key assignments, console, 2nd level **COPY THIS PAGE AS NEEDED AND INSERT AT BACK OF BOOK**
 User position from to

AC	TLC	Key no. • E1 • then E2								Explanation	
S8	201	202	203	204	205	206	207	208	Key no.	
											Standard data
											Entered data
		209	210	211	212	213	214	215	216	Key no.	
											Standard data
											Entered data
		217	218	219	220	221	222	223	224	Key no. 224 für set T29 = 00 00	
									25 01	Standard data	
											Entered data
		225	226	227	228	229					set T29

Key assignments, ABCD (DTMF, standard tel.) **COPY THIS PAGE AS NEEDED AND INSERT AT BACK OF BOOK**
 User position from to

AC	TLC	ZC	Entry				Explanation
S8	324	01 02	01 02	01 02	01 02	
			16 00	03 00	11 -	04 00	Standard data
							Entered data

Terminal-location-related LED activation
 User position from to

AC	TLC	ZC	Entries				Explanation
S8	325	1	2	3	4	
			11	11	11	11	Standard data
							Entered data 1 = on / 0 = off

T2.3.5

Key assignments, Hicom 120											OES								
User position 00																			
AC	TLC	Key no. • 1st entry ab • then 2nd entry ab								Explanation									
S8	00	01	02	03	04	05	06	07	08	Key no. set T8 /set T16									
		01 00	01 01	01 02	01 03	01 04	01 05	01 06	01 07	Standard data									
										Entered data									
		09	10	11	12	13	14	15	16	Important: set 191 does not have keys 14 + 15;									
		02 01	02 02	02 03	02 04	02 05	02 06	02 07	16 00	program as 00 00!									
								Entered data											
Key assignments, console, 1st level																			
User position 00 If connected to a console, the default setting for keys 09 to 15 of the telephone is 00 00.																			
AC	TLC	Key no. • 1st entry ab • then 2nd entry ab								Explanation									
S8	00	101	102	103	104	105	106	107	108	Key no.									
		02 01	02 02	02 03	02 04	02 05	02 06	02 07	02 08	Standard data									
										Entered data									
		109	110	111	112	113	114	115	116	Key no.									
		02 09	02 10	02 11	02 12	02 13	02 14	02 15	02 16	Standard data									
										Entered data									
		117	118	119	120	121	122	123	124	Key no. 124 für set T29 = 02 24									
		02 17	02 18	02 19	02 20	02 21	02 22	02 23	25 01	Standard data									
										Entered data									
		125	126	127	128	129				set T29									
00 00	00 00	00 00	00 00	25 01				Standard data											
								Entered data											
Key assignments, console, 1st level																			
User position 00																			
AC	TLC	Key no. • 1st entry ab • then 2nd entry ab								Explanation									
S8	00	201	202	203	204	205	206	207	208	Key no.									
		00 00	00 00	00 00	00 00	00 00	00 00	00 00	00 00	Standard data									
										Entered data									
		209	210	211	212	213	214	215	216	Key no.									
		00 00	00 00	00 00	00 00	00 00	00 00	00 00	00 00	Standard data									
										Entered data									
		217	218	219	220	221	222	223	224	Key no. 224 für set T29 = 00 00									
		00 00	00 00	00 00	00 00	00 00	00 00	00 00	25 01	Standard data									
										Entered data									
		225	226	227	228	229				set T29									
00 00	00 00	00 00	00 00	25 01				Standard data											
								Entered data											
Key assignments, ABCD (DTMF, standard tel.)																			
User position 00																			
AC	TLC	ZC	Entry				Explanation												
S8	00	324	01 02	03 04	05 06	07 08													
			16 00	03 00	11 –	04 00	Standard data												
							Entered data												
Terminal-location-related LED activation																			
User position 00																			
AC	TLC	ZC	Entries												Explanation				
S8	00	325	1	2	3	4	5	6	7	8	9	10	11	12					
			11	11	11	11	11	11	11	11	11	11	11	11	11	Standard data			
																Entered data 1 = on / 0 = off			

* For country-specific data, see Appendix.

T2.3.6

Key assignments, Hicom 120											* OES						
User position 01																	
AC	TLC	Key no. • 1st entry ab • then 2nd entry ab								Explanation							
S8	01	01	02	03	04	05	06	07	08	Key no. set T8 /set T16							
		01 00	01 01	01 02	01 03	01 04	01 05	01 06	01 07	Standard data							
										Entered data							
		09	10	11	12	13	14	15	16	Important: set 191 does not have keys 14 + 15; program as 00 00!							
		02 00	02 02	02 03	02 04	02 05	02 06	02 07	16 00	Entered data							
Key assignments, console, 1st level																	
User position 01 If connected to a console, the default setting for keys 09 to 15 of the telephone is 00 00.																	
AC	TLC	Key no. • 1st entry ab • then 2nd entry ab								Explanation							
S8	01	101	102	103	104	105	106	107	108	Key no.							
		02 00	02 02	02 03	02 04	02 05	02 06	02 07	02 08	Standard data							
										Entered data							
		109	110	111	112	113	114	115	116	Key no.							
		02 09	02 10	02 11	02 12	02 13	02 14	02 15	02 16	Standard data							
										Entered data							
		117	118	119	120	121	122	123	124	Key no. 124 für set T29 = 02 24							
		02 17	02 18	02 19	02 20	02 21	02 22	02 23	25 01	Standard data							
										Entered data							
		125	126	127	128	129					set T29						
00 00	00 00	00 00	00 00	25 01					Standard data								
									Entered data								
Key assignments, console, 2nd level																	
User position 01																	
AC	TLC	Key no. • 1st entry ab • then 2nd entry ab								Explanation							
S8	01	201	202	203	204	205	206	207	208	Key no.							
		00 00	00 00	00 00	00 00	00 00	00 00	00 00	00 00	Standard data							
										Entered data							
		209	210	211	212	213	214	215	216	Key no.							
		00 00	00 00	00 00	00 00	00 00	00 00	00 00	00 00	Standard data							
										Entered data							
		217	218	219	220	221	222	223	224	Key no. 224 für set T29 = 00 00							
		00 00	00 00	00 00	00 00	00 00	00 00	00 00	25 01	Standard data							
										Entered data							
		225	226	227	228	229					set T29						
00 00	00 00	00 00	00 00	25 01					Standard data								
									Entered data								
Key assignments, ABCD (DTMF, standard tel.)																	
User position 01																	
AC	TLC	ZC	Entry				Explanation										
S8	01	324	01 02	03 04	05 06	07 08											
			16 00	03 00	11 —	04 00	Standard data										
							Entered data										
Terminal-location-related LED activation																	
User position 01																	
AC	TLC	ZC	Entries												Explanation		
S8	01	325	1	2	3	4	5	6	7	8	9	10	11	12			
			11	11	11	11	11	11	11	11	11	11	11	11	11	Standard data	
																Entered data 1 = on / 0 = off	

* For country-specific data, see Appendix.

T2.3.7

Key assignments, Hicom 120											* OES					
User position 02																
AC	TLC	Key no. • 1st entry ab • then 2nd entry ab								Explanation						
S8	02	01	02	03	04	05	06	07	08	Key no. set T8 /set T16						
		01 00	01 01	01 02	01 03	01 04	01 05	01 06	01 07	Standard data						
										Entered data						
		09	10	11	12	13	14	15	16	Important: set 191 does not have keys 14 + 15;						
		02 01	02 00	02 03	02 04	02 05	02 06	02 07	16 00	program as 00 00!						
										Entered data						
Key assignments, console, 1st level																
User position 02 If connected to a console, the default setting for keys 09 to 15 of the telephone is 00 00.																
AC	TLC	Key no. • 1st entry ab • then 2nd entry ab								Explanation						
S8	02	101	102	103	104	105	106	107	108	Key no.						
		02 01	02 00	02 03	02 04	02 05	02 06	02 07	02 08	Standard data						
										Entered data						
		109	110	111	112	113	114	115	116	Key no.						
		02 09	02 10	02 11	02 12	02 13	02 14	02 15	02 16	Standard data						
										Entered data						
		117	118	119	120	121	122	123	124	Key no. 124 für set T29 = 02 24						
		02 17	02 18	02 19	02 20	02 21	02 22	02 23	25 01	Standard data						
										Entered data						
		125	126	127	128	129				set T29						
00 00	00 00	00 00	00 00	25 01				Standard data								
								Entered data								
Key assignments, console, 2nd level																
User position 02																
AC	TLC	Key no. • 1st entry ab • then 2nd entry ab								Explanation						
S8	02	201	202	203	204	205	206	207	208	Key no.						
		00 00	00 00	00 00	00 00	00 00	00 00	00 00	00 00	Standard data						
										Entered data						
		209	210	211	212	213	214	215	216	Key no.						
		00 00	00 00	00 00	00 00	00 00	00 00	00 00	00 00	Standard data						
										Entered data						
		217	218	219	220	221	222	223	224	Key no. 224 für set T29 = 00 00						
		00 00	00 00	00 00	00 00	00 00	00 00	00 00	25 01	Standard data						
										Entered data						
		225	226	227	228	229				set T29						
00 00	00 00	00 00	00 00	25 01				Standard data								
								Entered data								
Key assignments, ABCD (DTMF, standard tel.)																
User position 02																
AC	TLC	ZC	Entry				Explanation									
S8	02	324	01 02	03 04	05 06	07 08										
			16 00	03 00	11 -	04 00	Standard data									
							Entered data									
Terminal-location-related LED activation																
User position 02																
AC	TLC	ZC	Entries												Explanation	
S8	02	325	1	2	3	4	5	6	7	8	9	10	11	12		
			11	11	11	11	11	11	11	11	11	11	11	11	11	Standard data
																Entered data 1 = on / 0 = off

* For country-specific data, see Appendix.

T2.3.8

Key assignments, Hicom 120																
User position from to																
AC	TLC	Key no. • 1st entry ab • then 2nd entry ab								Explanation						
S8	01	02	03	04	05	06	07	08	Key no. set T8 /set T16						
										Standard data						
										Entered data						
		09	10	11	12	13	14	15	16	Important: set 191 does not have keys 14 + 15; program as 00 00!						
										Entered data						
Key assignments, console, 1st level																
COPY THIS PAGE AS NEEDED AND INSERT AT BACK OF BOOK																
If connected to a console, the default setting for keys 09 to 15 of the telephone is 00 00																
User position from to																
AC	TLC	Key no. • 1st entry ab • then 2nd entry ab								Explanation						
S8	101	102	103	104	105	106	107	108	Key no.						
										Standard data						
										Eingetragene Daten						
		109	110	111	112	113	114	115	116	Key no.						
										Standard data						
										Entered data						
		117	118	119	120	121	122	123	124	Key no. 124 für set T29 = 02 24						
										Standard data						
										Entered data						
		125	126	127	128	129				set T29						
								Standard data								
								Entered data								
Key assignments, console, 2nd level																
COPY THIS PAGE AS NEEDED AND INSERT AT BACK OF BOOK																
User position from to																
AC	TLC	Key no. • E1 • then E2								Explanation						
S8	201	202	203	204	205	206	207	208	Key no.						
										Standard data						
										Entered data						
		209	210	211	212	213	214	215	216	Key no.						
										Standard data						
										Entered data						
		217	218	219	220	221	222	223	224	Key no. 224 für set T29 = 00 00						
										Standard data						
										Entered data						
		225	226	227	228	229				set T29						
								Standard data								
								Entered data								
Key assignments, ABCD (DTMF, standard tel.)																
COPY THIS PAGE AS NEEDED AND INSERT AT BACK OF BOOK																
User position from to																
AC	TLC	ZC	entry								Explanation					
S8	324	01 02	01 02	01 02	01 02										
											Standard data					
											Entered data					
Terminal-location-related LED activation																
User position from to																
AC	TLC	ZC	entries												Explanation	
S8	325	1	2	3	4	5	6	7	8	9	10	11	12		
			11	11	11	11	11	11	11	11	11	11	11	11	11	Standard data
																Entered data 1 = an / 0 = aus

This list is intended as an aid to key programming and provides an overview of line access restrictions.

Notes on filling out the list correctly:

- © Determine which user does not have access permission for a specific line.
- © Mark the corresponding coordinate point for this user with an X.
- © The user's keys must then be erased with S8 · pos. code · key number · 00 .

Pos.	Line 00	Line 01	Line 02	Line 03	Line 04	Line 05	Line 06	Line 07
User 00								
User 01								
User 02								
User 03								
User 04								
User 05								
User 06								
User 07								
User 08								
User 09								
User 10								
User 11								
User 12								
User 13								
User 14								
User 15								
User 16								
User 17								
User 18								
User 19								
User 20								
User 21								
User 22								
User 23								

In the vertical column, find the user who is not to be displayed to users in the horizontal column.

X = No display for this user

VERTICAL = USERS THAT ARE NOT DISPLAYED
HORIZONTAL = BUSY DISPLAY FOR USER

User	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
00	X																								
01		X																							
02			X																						
03				X																					
04					X																				
05						X																			
06							X																		
07								X																	
08									X																
09										X															
10											X														
11												X													
12													X												
13														X											
14															X										
15																X									
16																	X								
17																		X							
18																			X						
19																				X					
20																					X				
21																						X			
22																							X		
23																								X	

Example: User with user pos. 00 should not be displayed at user positions 03, 04, 05 and 06.

User with user pos. 03 should not be displayed at user positions 02 and 05.

User	00	01	02	03	04	05	06
00	X			X	X	X	X
01		X					
02			X				
03				X		X	
04					X		
05						X	
06							X

List of users whose ABCD key programming deviates from standard.

- Ⓒ Standard key code A = 16 00 / B = 03 00 / C = 11 -- / D = 04 00
- Ⓒ Enter assigned code

	A	B	C	D
User 00				
User 01				
User 02				
User 03				
User 04				
User 05				
User 06				
User 07				
User 08				
User 09				
User 10				
User 11				
User 12				
User 13				
User 14				
User 15				
User 16				
User 17				
User 18				
User 19				
User 20				
User 21				
User 22				
User 23				

T2.4.1

Exec/sec combination														
Assignments														
AC	ZC	Standard data						Entered data						Explanation
		1.	2.	3.	4.	5.	6.	1.	2.	3.	4.	5.	6.	
S3	01	—	—	—	—	—	—							See below
	02	—	—	—	—	—	—							
	03	—	—	—	—	—	—							
	04	—	—	—	—	—	—							

- 1st entry = User pos. of 1st exec
- 2nd entry = User pos. of 2nd exec
- 3rd entry = User pos. of 1st sec
- 4th entry = User pos. of 2nd sec
- 5th entry = User pos. of 1st exec 2nd telephone
- 6th entry = User pos. of 2nd exec 2nd telephone

T2.4.2

Exec/sec functions																			
Features																			
AC	ZC	Standard data								Entered data								Explanation	
		1.ab	2.ab	3.ab	4.ab	5.ab	6.ab	7.ab	8.ab	1.ab	2.ab	3.ab	4.ab	5.ab	6.ab	7.ab	8.ab		
S3	05	11	11	11	11	11	11	11	11										See below
	06	11	11	11	11	11	11	11	11										
	07	11	11	11	11	11	11	11	11										
	08	11	11	11	11	11	11	11	11										

Explanation

- 1st entry
 - a = 0 Only 1st exec tel. is called
 - a = 1 1st exec tel. and 1st exec 2nd tel. are called together
 - b = 0 Only 2nd exec tel. is called
 - b = 1 2nd exec tel. and 2nd exec 2nd tel. are called together
- 2nd entry
 - a = 0 Only 1st exec tel. activates relay for door busy indication*
 - a = 1 1st exec 2nd tel. also activates relay for door busy indication*
 - b = 0 Only 2nd exec. tel. activates relay for door busy indication*
 - b = 1 2nd exec 2nd tel. also activates relay for door busy indication*

* (Entry for relay required in S1*52-55)
- 3rd entry
 - a = 0 No HFAB for transfer of external calls
 - a = 1 HFAB for transfer of external calls is allowed
 - b = 0 Bar trunk queuing
 - b = 1 Do not bar trunk queuing
- 4th entry
 - a = 0 Alerting tone with transfer
 - a = 1 No alerting tone with transfer
 - b = 0 For AUL to sec, not available to other sec
 - b = 1 For AUL to sec. available to other sec
- 5th to 8th entries = Sparde(standard entry = 1)

T2.5.1

User-related display data									
User positions 00-23									
AC	ZC	User pos.	Standard data			Entered data			Explanation
			1.ab	2.ab	3.ab	1.ab	2.ab	3.ab	
S10	11	00	33	31	33				See Table 2.5.2
	12	01	33	31	33				
	13	02	33	31	33				
	14	03	33	31	33				
	15	04	33	31	33				
	16	05	33	31	33				
	17	06	33	31	33				
	18	07	33	31	33				
	19	08	33	31	33				
	20	09	33	31	33				
	21	10	33	31	33				
	22	11	33	31	33				
	23	12	33	31	33				
	24	13	33	31	33				
	25	14	33	31	33				
	26	15	33	31	33				
	27	16	33	31	33				
	28	17	33	31	33				
	29	18	33	31	33				
	30	19	33	31	33				
	31	20	33	31	33				
	32	21	33	31	33				
	33	22	33	31	33				
	34	23	33	31	33				

Displays				
Text/formats				
AC	ZC	Standard data	Entered data	Explanation
S10	52	10		Accompanying texts for internal call numbers/names 00 = Long accompanying text, 10 = Short accompanying text

T2.5.2

Explanation of S10*11-34				
Display no. of user calling or waiting	no	yes	no	yes
Display activated night service	no	no	yes	yes
	1st entry, data pos. a =			
	0	1	2	3
Display activated call forwarding	no	yes	no	yes
Display activated do-not-disturb	no	no	yes	
	1st entry, data pos. b =			
	0	1	2	3
Display callback request/message wait	no	yes	no	yes
Display time of day	no	no	yes	yes
	2nd entry, data pos. a =			
	0	1	2	3
Display absent user texts	no	ja		
	2nd entry, data pos. b =			
	0	1		
Display activated relay 1	no	yes	no	yes
Display activated relay 2	no	no	yes	yes
	3rd entry, data pos. a =			
	0	1	2	3
Display activated relay 3	no	yes	no	yes
Display activated relay 4	no	no	yes	yes
	3rd entry, data pos. b =			
	0	1	2	3

T2.5.3

Display "Transfer before answer"

User positions 00-23

AC	ZC	User pos.	Standard data	Entered data	Explanation
S10	71	00	10		Entry=00 Display call only
	72	01	10		Entry=10 Display transfer before answer
	73	02	10		The input must be made for the A user in order to achieve the appropriate display for the B user.
	74	03	10		
	75	04	10		
	76	05	10		
	77	06	10		
	78	07	10		
	79	08	10		
	80	09	10		
	81	10	10		
	82	11	10		
	83	12	10		
	84	13	10		
	85	14	10		
	86	15	10		
	87	16	10		
	88	17	10		
	89	18	10		
	90	19	10		
	91	20	10		
	92	21	10		
	93	22	10		
	94	23	10		

T2.5.4

User-related display																			
User positions 00-23																			
AC	ZC	User pos.	Standard data								Entered Data								Explanation
			1.ab	2.ab	3.ab	4.ab	5.ab	6.ab	7.ab	8.ab	1.ab	2.ab	3.ab	4.ab	5.ab	6.ab	7.ab	8.ab	
S10	111	00	11	11	10	01	00	00	00	00									See below
	112	01	11	11	10	01	00	00	00	00									
	113	02	11	11	10	01	00	00	00	00									
	114	03	11	11	10	01	00	00	00	00									
	115	04	11	11	10	01	00	00	00	00									
	116	05	11	11	10	01	00	00	00	00									
	117	06	11	11	10	01	00	00	00	00									
	118	07	11	11	10	01	00	00	00	00									
	119	08	11	11	10	01	00	00	00	00									
	120	09	11	11	10	01	00	00	00	00									
	121	10	11	11	10	01	00	00	00	00									
	122	11	11	11	10	01	00	00	00	00									
	123	12	11	11	10	01	00	00	00	00									
	124	13	11	11	10	01	00	00	00	00									
	125	14	11	11	10	01	00	00	00	00									
	126	15	11	11	10	01	00	00	00	00									
	127	16	11	11	10	01	00	00	00	00									
	128	17	11	11	10	01	00	00	00	00									
	129	18	11	11	10	01	00	00	00	00									
	130	19	11	11	10	01	00	00	00	00									
	131	20	11	11	10	01	00	00	00	00									
	132	21	11	11	10	01	00	00	00	00									
	133	22	11	11	10	01	00	00	00	00									
134	23	11	11	10	01	00	00	00	00										

Explanation

- 1st entry a Displaying internal user names
 - 0 = Internal call numbers will be displayed
 - 1 = Internal names/abbreviations will be displayed.
- 1st entry b Displaying KWZ names
 - 0 = KWZ call numbers will be displayed
 - 1 = KWZ names will be displayed
- 2nd entry a Display duration of external call number during the call
 - 0 = The external call number will be displayed until the exclusive hold and will then be replaced by the line number.
 - 1 = The external call number will also be displayed again after exclusive hold.
- 2nd entry b
 - 0 = The external call number will be displayed until the common hold and will then be replaced by the line number.
 - 1 = The external call number will also be displayed again after common hold.

For further explanations, see overleaf.

3rd entry a - Displaying the line identification for call without RWS/AUL/transfer before answer
0 = The line number will be displayed
1 = The line identification will be displayed

3rd entry b Displaying the line identification for call with RWS/AUL/transfer before answer
0 = The line number with explanation will be displayed
1 = The line identification will be displayed without reference to AUL/RWS/transfer

4th entry a Line identification for recall
0 = The line number will be displayed.
1 = The line identification will be displayed.

4th entry b Line identification during the external call
0 = The line number will be displayed
1 = The line identification will be displayed

5th entry a Displaying the external call number during the call for transfer before answer
0 = The line number with explanation will be displayed.
1 = The dialed call number will be displayed without call reference

5th entry b Displaying the external call number during the call for recall
0 = The line number with explanation will be displayed
1 = The dialed call number will be displayed without call reference

6th, 7th, 8th entries
Spare

T3.1

Dialing authorization (for "fixed" night service)																			
User positions 00-23 for line positions 00-07																			
AC	ZC	User pos.	Standard data / ab								Entered data / ab								Explanation
			1.	2.	3.	4.	5.	6.	7.	8.	1.	2.	3.	4.	5.	6.	7.	8.	
S4	11	00	02	12	22	32	42	52	62	72									See below
	12	01	02	12	22	32	42	52	62	72									
	13	02	02	12	22	32	42	52	62	72									
	14	03	02	12	22	32	42	52	62	72									
	15	04	02	12	22	32	42	52	62	72									
	16	05	02	12	22	32	42	52	62	72									
	17	06	02	12	22	32	42	52	62	72									
	18	07	02	12	22	32	42	52	62	72									
	19	08	02	12	22	32	42	52	62	72									
	20	09	02	12	22	32	42	52	62	72									
	21	10	02	12	22	32	42	52	62	72									
	22	11	02	12	22	32	42	52	62	72									
	23	12	02	12	22	32	42	52	62	72									
	24	13	02	12	22	32	42	52	62	72									
	25	14	02	12	22	32	42	52	62	72									
	26	15	02	12	22	32	42	52	62	72									
	27	16	02	12	22	32	42	52	62	72									
	28	17	02	12	22	32	42	52	62	72									
	29	18	02	12	22	32	42	52	62	72									
	30	19	02	12	22	32	42	52	62	72									
	31	20	02	12	22	32	42	52	62	72									
	32	21	02	12	22	32	42	52	62	72									
	33	22	02	12	22	32	42	52	62	72									
	34	23	02	12	22	32	42	52	62	72									

Explanation

- Entry a = Line position (cannot be changed)
- Entry b
 - 0 = No line access / no direct trunk access
 - 1 = Line scanning authorization / outward restricted
 - 2 = See toll restriction data
 - 3 = See toll restriction data
 - 4 = See toll restriction data
 - 5 = See toll restriction data
 - 6 = See toll restriction data
 - 7 = No toll restriction data (international)

T3.2.1

Transfer of ringing (for night service)					
Line positions 00-07					
AC	ZC	Line pos.	Standard data	Entered data	Explanation
S4	41	00	03		Entry = — Group ringing Entry = 00-23 User pos. (There is no call forwarding)
	42	01	03		
	43	02	03		
	44	03	03		
	45	04	03		
	46	05	03		
	47	06	03		
	48	07	03		

T3.2.2

Central ringer (for night service)					
Line positions 00-07					
AC	ZC	Line pos.	Standard data	Entered data	Explanation
S4	61	00	00		Entry = 00 Ringer off Entry = 10 Ringer on Assignment is for both variable and fixed night service.
	62	01	00		
	63	02	00		
	64	03	00		
	65	04	00		
	66	05	00		
	67	06	00		
	68	07	00		

T3.2.3

Group ringing (for night service)																					
(For line positions 00-07)																					
AC	ZC	Line pos.	Standard data								Entered data								Explanation		
			1.	2.	3.	4.	5.	6.	7.	8.	1.	2.	3.	4.	5.	6.	7.	8.			
S4	51	00	—	—	—	—	—	—	—										All user pos. must be entered consecutively!		
	52	01	—	—	—	—	—	—	—												
	53	02	—	—	—	—	—	—	—												
	54	03	—	—	—	—	—	—	—												
	55	04	—	—	—	—	—	—	—												
	56	05	—	—	—	—	—	—	—												
	57	06	—	—	—	—	—	—	—												
	58	07	—	—	—	—	—	—	—												
			Line pos.	Standard data								Entered data									
				9.	10.	11.	12.	13.	14.	15.	16.	9.	10.	11.	12.	13.	14.	15.		16.	
		51	00	—	—	—	—	—	—	—	—										
		52	01	—	—	—	—	—	—	—	—										
		53	02	—	—	—	—	—	—	—	—										
		54	03	—	—	—	—	—	—	—	—										
		55	04	—	—	—	—	—	—	—	—										
		56	05	—	—	—	—	—	—	—	—										
		57	06	—	—	—	—	—	—	—	—										
		58	07	—	—	—	—	—	—	—	—										
			Line pos.	Standard data								Entered data									
				17.	18.	19.	20.	21.	22.	23.	24.	17.	18.	19.	20.	21.	22.	23.		24.	
		51	00	—	—	—	—	—	—	—	—										
		52	01	—	—	—	—	—	—	—	—										
		53	02	—	—	—	—	—	—	—	—										
		54	03	—	—	—	—	—	—	—	—										
	55	04	—	—	—	—	—	—	—	—											
	56	05	—	—	—	—	—	—	—	—											
	57	06	—	—	—	—	—	—	—	—											
	58	07	—	—	—	—	—	—	—	—											

T4.1.1

Toll restrictions (standard) * all				
Toll restriction block 08				
AC	ZC	Dialed digit	Standard data	Entered data
S5	08	1	09	
		2	03	
		3	03	
		4	03	
		5	03	
		6	03	
		7	03	
		8	03	
		9	03	
		0	10	

T4.1.2

Toll restrictions (standard) * all				
Toll restriction block 09				
AC	ZC	Dialed digit	Standard data	Entered data
S5	09	1	12	
		2	03	
		3	03	
		4	03	
		5	03	
		6	03	
		7	03	
		8	03	
		9	03	
		0	03	

T4.1.3

Toll restrictions (standard) * all				
Toll restriction block 10				
AC	ZC	Dialed digit	Standard data	Entered data
S5	10	1	11	
		2	05	
		3	05	
		4	05	
		5	05	
		6	05	
		7	05	
		8	05	
		9	05	
		0	07	

T4.1.4

Toll restrictions (standard) * all				
Toll restriction block 11				
AC	ZC	Dialed digit	Standard data	Entered data
S5	11	1	12	
		2	05	
		3	05	
		4	05	
		5	05	
		6	05	
		7	05	
		8	05	
		9	05	
		0	05	

T4.1.5

Toll restrictions (standard) * all				
Toll restriction block 12				
AC	ZC	Dialed digit	Standard data	Entered data
S5	12	1	05	
		2	02	
		3	05	
		4	05	
		5	05	
		6	05	
		7	02	
		8	05	
		9	05	
		0	02	

T4.1.6

Toll restrictions (standard) * all				
Toll restriction block 13				
AC	ZC	Dialed digit	Standard data	Entered data
S5	13	1	00	
		2	00	
		3	00	
		4	00	
		5	00	
		6	00	
		7	00	
		8	00	
		9	00	
		0	00	

* For country-specific data, see Appendix.

T4.1.7

Toll restrictions (standard)				
Toll restrictions block 14				
AC	ZC	Dialed digit	Standard data	Entered data
S5	14	1	00	
		2	00	
		3	00	
		4	00	
		5	00	
		6	00	
		7	00	
		8	00	
		9	00	
		0	00	

T4.1.8

Toll restrictions (standard)				
Toll restrictions block 15				
AC	ZC	Dialed digit	Standard data	Entered data
S5	15	1	00	
		2	00	
		3	00	
		4	00	
		5	00	
		6	00	
		7	00	
		8	00	
		9	00	
		0	00	

T4.1.9

Toll restrictions (standard)				
Toll restrictions block 16				
AC	ZC	Dialed digit	Standard data	Entered data
S5	16	1	00	
		2	00	
		3	00	
		4	00	
		5	00	
		6	00	
		7	00	
		8	00	
		9	00	
		0	00	

T4.1.10

Toll restrictions (standard)				
Toll restrictions block 17				
AC	ZC	Dialed digit	Standard data	Entered data
S5	17	1	00	
		2	00	
		3	00	
		4	00	
		5	00	
		6	00	
		7	00	
		8	00	
		9	00	
		0	00	

Toll restriction blocks 16 and 17 can be used for dialing to the first PABX.
The following call numbers have been approved:

- Authorized 02: 112, 117, 110, 0112, 0117, 0110
- Authorized 03: 2-9, 12-10
- Authorized 04: Intended for local area
- Authorized 05: 01-09
- Authorized 06: Available

T5.1.1

Line-related data for GEZ and GESP.							
Line positions 00-07							
AC	ZC	Line pos.	Standard data		Entered data		Explanation
			1.ab	2.ab	1.ab	2.ab.	
S7	01	00	30	10			See below
	02	01	30	10			
	03	02	30	10			
	04	03	30	10			
	05	04	30	10			
	06	05	30	10			
	07	06	30	10			
	08	07	30	10			

T5.1.2

Explanation of S7*01-08				
Incoming calls will be logged	yes	no	yes	no
Outgoing calls will be logged	yes	yes	no	no
	1st entry, data pos. a =			
	0	1	2	3
The project code will be output	yes	nein	yes	no
The call segment for the data transfer will be output	yes	yes	no	no
	1st entry, data pos. b =			
	0	1	2	3
Calls without metering pulse will be logged after time S7*73 has elapsed	yes	no		
Calls will be logged if the number of metering pulses has reached the value entered	no	1-9		
	2nd entry, data pos. a =			
	0	1-9		
GESP active for this line	yes	nein		
	2nd entry, data pos. b =			
	0	1		

T5.2.1

User-related data for GEZ							
User positions 00-23							
AC	ZC	User pos.	Standard data		Entered data		Explanation
			1.ab	2.ab	1.ab	2.ab	
S7	11	00	10	00			See below
	12	01	10	00			
	13	02	10	00			
	14	03	10	00			
	15	04	10	00			
	16	05	10	00			
	17	06	10	00			
	18	07	10	00			
	19	08	10	00			
	20	09	10	00			
	21	10	10	00			
	22	11	10	00			
	23	12	10	00			
	24	13	10	00			
	25	14	10	00			
	26	15	10	00			
	27	16	10	00			
	28	17	10	00			
	29	18	10	00			
	30	19	10	00			
	31	20	10	00			
32	21	10	00				
33	22	10	00				
34	23	10	00				

T5.2.2

Explanation of S7-11-34				
Incoming calls will be logged	yes	no	yes	no
Outgoing calls will be logged	yes	yes	no	no
	1st entry, data pos. a =			
	0	1	2	3
The project code will be output	yes	no	yes	no
The call segment for data transfer will be output	yes	yes	no	no
	1st entry, data pos. b =			
	0	1	2	3
The users call will be logged	yes	no		
	2nd entry, data pos. a =			
	0	1		
Spare				
	2nd entry, data pos. b =			
	0			

T5.3

User-related data for suppression of internal and/or external call numbers							* IRL	* POR
User positions 00-23								
AC	ZC	User pos.	Standard data		Entered data		Explanation	
			1.ab	2.ab	1.ab	2.ab		
S7	41	00	00	02			See below	
	42	01	00	02				
	43	02	00	02				
	44	03	00	02				
	45	04	00	02				
	46	05	00	02				
	47	06	00	02				
	48	07	00	02				
	49	08	00	02				
	50	09	00	02				
	51	10	00	02				
	52	11	00	02				
	53	12	00	02				
	54	13	00	02				
	55	14	00	02				
	56	15	00	02				
	57	16	00	02				
	58	17	00	02				
	59	18	00	02				
	60	19	00	02				
	61	20	00	02				
	62	21	00	02				
	63	22	00	02				
	64	23	00	02				

T5.3.1

Explanation of S7-41-64		
Print user number	yes	no
	1st entry, data pos. a =	0 1
Delete 0-9 digits of external call number, see 2nd entry ab	yes	no
Delete all digits of external call number	no	yes
	1st entry, data pos. b =	0 1
Number of digits to be deleted from left when printing external call number		0-9
	2nd entry, data pos. a =	0-9
Number of digits to be deleted from right when printing external call number		0-9
	2nd entry, data pos. b =	0-9

* For country-specific data, see Appendix.

T5.4.1

System data for print				
AC	ZC	Standard data	Entered data	Explanation
S7	71	10		Min. seizure time for all lines busy (ATB start). Entry (00-99), min. time in seconds for which all lines must be busy before time calculation begins.
	72	10		Min. time for all lines busy (ATB end). Entry (00-99), min time in seconds for which a line must be available before time calculation is stopped.
	73	20		Min. seizure time for call duration recording. Entry (00-99), min. time in seconds for which a line must be busy for output to occur.
	74	01		Printout of ATB/lost data messages (ATB = All trunks busy) 1a=0 ATB inactive, 1a=1 ATB aktive 1b=0 Lost data message inactive, 1b=1 Lost data message active
	75	00		Printer type, PT 88, PT 89, Epson LX 86, Epson LX 800 Entry=00 Printer with Epson character set, 01= Printer with IBM character set 2

T5.4.2

Printing format				
AC	ZC	Standard data	Entered data	Explanation
S7	76	02		GEZ printing format 1a=1 Without header line, without form feed (for GC evaluation/compressed data record) 1b=0 With header line, 1b=1 without header line, 1b=2 With header line followed by blank line
	77	72		Number of lines per page, entry (01-99) = Number of lines per page Entry = 68 for DIN A4 and 11" paper Entry = 72 for continuous paper, 12"
	78	68		Number of lines per page Entry (01-99) = Number of lines per page

T5.4.3

Interface parameters				
AC	ZC	Standard data	Entered data	Explanation
S7	79	00		Interface parameters for all printers 1a=0 CR and LF at beginning, 1a=1 CR at beginning, 1a=2 at beginning, 1a=3 No control character at beginning 1b=0 No control character at ent, 1b=1 CR at end, 1b=2 LF at end, 1b=3 CR and LF at end
	80	03		Baud rate for interface 00=300 baud, 01=600 baud, 02=1200 baud, 03=2400 baud, 04=4800 baud, 05=9600 baud

T5.5

GEZ data record						
AC	ZC	Standard data	Data record for GC	Data record for TeleTime	Entered data	Explanation
S7	81	01	(01)	(01)		1st data element
	82	02	(02)	(02)		2nd data element
	83	04	(04)	(04)		3rd data element
	84	05	(05)	(05)		4th data element
	85	06	(03)	(03)		5th data element
	86	15	(06)	(06)		6th data element
	87	99	(08)	(08)		7th data element
	88	—	(14)	(14)		8th data element
	89	—	(99)	(00)		9th data element
	90	—		(13)		10th data element
	91	—		(99)		11th data element
	92	—				12th data element
	93	—				13th data element
	94	—				14th data element
	95	—				15th data element
	96	—				16th data element
		97	10			

The length of the data record must not exceed 80 characters. If a data record is entered that is too long, only elements up to 80 characters, counting control characters, will be output and the others will be deleted.

Possible data elements

Length of data element

00	=	Class	7
01	=	Date	10
02	=	Time	10
03	=	Line	6
04	=	Call duration	10
05	=	User number	5
06	=	External call number	22
07	=	Calling time	7
08	=	Project code (account code)	10
09	=	External call number or calling time	22
10	=	External call number or calling time or projekt code	22
11	=	External call number or project code	22
12	=	Calling time or project code	10
13	=	Info	7
14	=	Number of metering pulses	8
15	=	Charges amount	14
16	=	Metering pulses or call duration	10
17	=	Charges amount or call duration	16
99	=	End of data record	

GC switching: Length-2
 Additional to observe: S7*76 = 10
 S7*79 = 10
 S7*80 = 03

T5.6

GEL/call detail recording**Assignment of GEL to line positions 00-07**

AC	ZC	User pos.	Standard data	Entered data	Explanation
S7	101	00	00		1a = 0 GEL inactive
	102	01	00		1a = 1 GEL active
	103	02	00		1b = Spare
	104	03	00		
	105	04	00		
	106	05	00		
	107	06	00		
	108	07	00		

GEL**Abfrage-/Löschberechtigung**

AC	ZC	Standard data		Entered data		Explanation
		1.ab	2.ab	1.ab	2.ab	
S7	109	00	00			See below

- 1st entry = 00 - 23 User pos. with retrieval/deletion authorization
 2nd entry = 00 Deletion with password
 01 Deletion without password

T5.7.1

GET/GESP									
Authorization for user positions 00-23									
AC	ZC	User pos.	Standard data			Entered data			Explanation
			1.ab	2.ab	3.ab	1.ab	2.ab	3.ab	
S7	111	00	00	00	00				(GET authorization)
	112	01	00	00	00				1a = 0 GET inactive
	113	02	00	00	00				1a = 1 GET active
	114	03	00	00	00				
	115	04	00	00	00				1b = Spare
	116	05	00	00	00				
	117	06	00	00	00				(GESP authorization during call)
	118	07	00	00	00				2a = 0 GESP inactive
	119	08	00	00	00				2a = 1 GESP active
	120	09	00	00	00				
	121	10	00	00	00				2b = 0 Display metering pulse
	122	11	00	00	00				2b = 1 Display charges amount
	123	12	00	00	00				2b = 2 Display call duration
	124	13	00	00	00				
S7	125	14	00	00	00				(GESP authorization after call)
	126	15	00	00	00				3a = 0 GESP inactive
	127	16	00	00	00				3a = 1 GESP active
	128	17	00	00	00				
	129	18	00	00	00				3b = 0 Display metering pulse
	130	19	00	00	00				3b = 1 Display charges amount
	131	20	00	00	00				3b = 2 Display call duration
	132	21	00	00	00				
	133	22	00	00	00				
	134	23	00	00	00				

T5.7.2

GET/GESP						
Display/deletion authorization						
AC	ZC	Standard data		Entered data		Explanation
		1.ab	2.ab	1.ab	2.ab	
S7	139	10				Display mode for GESP 00 = Total-related 10 = Segment-related
	140	00	00			Deletion authorization for GET 1st entry = — Every user can delete his own GET memory 00 - 23 User pos. of user with deletion authorization 2nd entry = 00 Deletion with password 01 Deletion without password
	141	00				Retrieval authorization for GET Entry = 00-23 User pos. of user with retrieval authorization Entry = — Every user can retrieve only his own GET memory

T5.8

GET/GESP						* all (ZC 144 only)
Formats						
AC	ZC	Standard data		Entered data		Explanation
		1.ab	2.ab	1.ab	2.ab	
S7	142	01	03			Decimal format of currency of printer and display 1st entry = Display 2nd entry = Printer 00 = No separator 01 = Decimal separator 02 = Thousands separator 03 = Decimal and thousands separators
	143	12	12			Separator for printer and display 1st entry a = Display, thousands separator b = Display, decimal separator 2nd entry a = Printer, thousands separator b = Printer, decimal separator 0 = Blank, 1 = Period 2 = Comma (with set 121, blank!) Do not use blank as decimal separator for printer.
	144	DM				Unit of currency (max. 3 positions)
	145	01				Printing format data for GET 1st entry a = Form feed 0 = Form feed 1 = No form feed 1st entry b = Header line 0 = No header line 1 = Header line 2 = Header line and blank line
	146	05				Number of blank lines before printout of GET/GEL summation memory Possible entries = 00-30
Displays						
Text length/formats						
AC	ZC	Standard data	Entered data	Explanation		
S10	53	10		GET display format 00=Call number, 10=Name		

* For country-specific data, see Appendix.

T5.8.1

Invoice header for internal GC/GET printout				
AC	ZC	Standard data	Entered data	Explanation
S7	147	—		Up to 120 characters

Explanation

- Enter lower-case letters and numbers directly
- Enter upper-case letters with leading slash (/)
- Enter control/special characters as decimal number between two slashes
- Double slash = Output as single slash
- Control character CR (/13/) sets new line in accordance with S7-79

T5.8.2

Controlling internal GC/GET printout										
AC	ZC	Standard data				Entered data				Explanation
		1.ab	2.ab	3.ab	4.ab	1.ab	2.ab	3.ab	4.ab	
S7	148	01	11	11	10					See below

- 1st entry
 - a = 0 GC inactive
 - a = 1 GC active
 - b = 0 GET invoice header not output
 - b = 1 GET invoice header output
- 2nd entry
 - a = 0 GC invoice header not output
 - a = 1 GC invoice header output
 - b = 0 User name/number not output
 - b = 1 User name/number output
- 3rd entry
 - a = 0 Header line not output
 - a = 1 Header line output
 - b = 0 Page number not output
 - b = 1 Page number output
- 4th entry
 - a = 0 Total not printed out
 - a = 1 Total printed out
 - b = Spare

Important: Only GEZ or GC can be active

T6.1.1

Codes					* GBR * IRL * ITA * POR
AC	ZC	Standard data	Entered data	Explanation	
Entry codes					
S11	01	-		Specific line seizure for user without 1 key dialing	
	02	9		Substitution 1 key for standard telephone (paging/consulation)	
	03	7		Substitution S key for standard telephone (services)	
Assigned line code					* GBR * SWE
User positions 00-07					
AC	ZC	User pos.	Standard data	Entered data	Explanation
S11	11	00	81		Assignment of line codes
	12	01	82		
	13	02	83		
	14	03	84		
	15	04	85		
	16	05	86		
	17	06	87		
	18	07	88		
	19		0		Code for fetching a held line
Codes					
AC	ZC	Standard data	Entered data	Explanation	
Trunk codes					
S11	21	0		Line group 1	
	22	(6)		Line group 2	
	29	4		Answer from any station	

* For country-specific data, see Appendix.

T6.1.2

Assignment of call numbers to user positions					* GBR * POR
User positions 00-23					
AC	ZC	User pos.	Standard data	Entered data	Explanation
S11	31	00	11		Assigned call number
	32	01	12		
	33	02	13		
	34	03	14		
	35	04	15		
	36	05	16		
	37	06	17		
	38	07	18		
	39	08	19		
	40	09	20		
	41	10	21		
	42	11	22		
	43	12	23		
	44	13	24		
	45	14	25		
	46	15	26		
	47	16	27		
	48	17	28		
	49	18	29		
	50	19	30		
	51	20	31		
	52	21	32		
	53	22	33		
54	23	34			
55		(0)		Call forwarding code on DID calls	
56		59		2nd number of a user (enter pos. in S1*61)	

* For country-specific data, see Appendix.

T6.1.3

Service codes, max. 2 digits				* GBR * IRL * ITA	
AC	ZC	Standard data	Entered data	Explanation	
S11				Entry codes	
				Services initiated with substitution S (in idle, ready, call acknowledgement, internally busy states)	
	60	0		Cancel do-not-disturb, call forwarding	
	61	1		Call forwarding	
	62	2		Call forwarding, follow me	
	63	7		Do-not-disturb	
	64	4		Night service	
	65	6		Message waiting	
	66	8		Voice calling (direct call)	
	67	9		Entry into prog. without password	
	68	36		Code lock	
	69	35		Entry into GE procedures	
	70	30		Terminal test	
	71	31		Relay code (post-dial 1-4 for relay 1-4)	
	75	53		Programming KWI (standard telephone only)	
	76	37		Activate absent user messages	
	77	#		Entry into key/KWI programming	
	78	38		Connect call signaiing	
	79	39		Call forwarding per line	
					Services for standard telephones from ready state without substitutions S
	80	53		Output KW/KWZ	
	81	52		Last number redial	
	82	51		Code for answering a line in general hold call; line code must then be dialed.	
	83	55		Code for signal key activation at remot PABX	
	84	—		Cancelling consultation hold at remote PABX	
					Services initiated with S or substitution S from external call
	85	3		Conference	
	86	9		DTMF changeover (stand. telephone), data mode (key telephone)	
	87	4		Entry code for project code (account code)	
					Service codes
	90	35		Entry for announcement (paging)	
	91	(0)		Announcemnet (paging), external and all zones	
	92	1		Announcemnet (paging), zone 1	
	93	2		Announcemnet (paging), zone 2	
	94	3		Announcemnet (paging), zones 1 and 2	
	95	(4)		Announcemnet (paging), external	
	96	00		Fixed night service code (must not be user call number)	
	97	*		Entry code for output KW (the alternative char. for entering "*" is "H")	
	98	55		Code for answering call waiting or alerting tone	
	99	6		Third party monitoring with exec/sec	
	100	—		Override (after initiating with S key)	
	101	(57)		TeleTime: start (after initiating with "S")	
	102	(58)		TeleTime: stop (after initiating with "S")	
	106	—		Room monitoring on/off (after initiation with "S")	
	107	—		Set room status (after initiation with "S")	
	108	—		Entry for wake-up procedure (after initiating with "S")	

* For country-specific data, see Appendix.

T6.1.4

Codes, max. 2 digits**Codes for entry into GET/GEL procedures**

AC	ZC	Standard data	Entered data	Explanation	
				Printing	
S11	201	11		GET summation memory (metering pulse)	
	202	12		GET delta memory (metering pulse)	
	203	13		GEL summation memory (metering pulse)	
	204	14		GEL delta memory (metering pulse)	
	205	15		GET summation memory (cost)	
	206	16		GET delta memory (cost)	
	207	17		GEL summation memory (cost)	
	208	18		GEL delta memory (cost)	
					Printing and deleting
	211	21		GET summation memory (metering pulse)	
	212	22		GET delta memory (metering pulse)	
	213	23		GEL summation memory (metering pulse)	
	214	24		GEL delta memory (metering pulse)	
	215	25		GET summation memory (cost)	
	216	26		GET delta memory (cost)	
	217	27		GEL summation memory (cost)	
	218	28		GEL delta memory (cost)	
					Display indications
221	31		GET summation memory (metering pulse)		
222	32		GET delta memory (metering pulse)		
223	33		GEL summation memory (metering pulse)		
224	34		GEL delta memory (metering pulse)		
225	35		GET summation memory (cost)		
226	36		GET delta memory (cost)		
227	37		GEL summation memory (cost)		
228	38		GEL delta memory (cost)		
				Displaying and deleting	
231	41		GET summation memory (metering pulse)		
232	42		GET delta memory (metering pulse)		
233	43		GEL summation memory (metering pulse)		
234	44		GEL delta memory (metering pulse)		
235	45		GET summation memory (cost)		
236	46		GET delta memory (cost)		
237	47		GEL summation memory (cost)		
238	48		GEL delta memory (cost)		

T6.2

External announcement (paging)/external conference				
AC	ZC	Standard data	Entered data	Explanation
S1	42	00		external Paging amplifier 00 = no 10 = yes
	43	00		Int/Ext/Ext-Conference allow 00 = no 10 = yes (not FRG)

Internal announcement (paging) area 1														
AC	ZC	Standard data												Explanation
		1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	
S1	50	-	-	-	-	-	-	-	-	-	-	-	-	Entry = User pos. (max. 12)
		Entered data												

Internal announcement (Paging) area 2														
AC	ZC	Standard data												Explanation
		1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	
S1	51	-	-	-	-	-	-	-	-	-	-	-	-	Entry = User pos. (max. 12)
		Entered data												

Relay functions										Explanation
AC	ZC	Standard data				Entered data				
		1.	2.	3.	4.	1.	2.	3.	4.	
S1	52	02	00	03	-					Relay 1
	53	03	02	-	-					Relay 2
	54	00	01	-	-					Relay 3
	55	05	01	03	-					Relay 4

Relay functions

1st entry

- 00 = Activate with KZ
- 01 = Activate with KZ and duration of signal key actuation
- 02 = Door opener
- 03 = Door busy indication
- 04 = Fixed switching time
- 05 = Data traffic
- 06 = W2 simulation
- 07 = Activation of entrance amplifier
- 08 = ALUM relay
- 09 = Activation of paging amplifier
- 10 = Activation of tape deck for MOH
- 11 = Polarity reversal when actuating a user
- 12 = Loop interruption WARNING timer = 10 ms
- 13 = Metering pulse renewal WARNING timer = 10 ms
- 14 = Indication for relay expansion board
- = Relay not present

2nd entry

- = Activation by every user
- Otherwise, entry of user pos.

3rd entry

- Activation time of relay, if required (min. 1 s, max. 99 s, entry x 1 s)
- WARNING for function = 12/13/14, entry 10 ms (min. 10 s, max. 99 s, entry x 10 s)

4th entry

- Min. pause between two activities
- WARNING only for function = 13, entry 10 ms (min. 10 s, max. 99 s, entry x 10 s)

Position of entrance telephone				
AC	ZC	Standard data	Entered data	Explanation
S1	60	-		Entry = User pos. of entrance telephone (additional entry required in S1-11)

Line allocation for abbreviated dialing of standard telephone				
AC	ZC	Std.	Entd.	Explanation
S1	72	00		See below

Entry 00 = Exchange
 10 = PABX (satellite PABX)
 20 = Both directions

21 = Direction 1, S2-81
 22 = Direction 2, S2-82

T6.2.1

Waiting/internal conference				* IRL * ITA
AC	ZC	Std.	Entd.	Explanation
S1	82	08		Max. no. of waiting calls at a standard telephone (NoFe) (min. 1, max. 08)
	83	04		a = 0 (cannot be changed) b = Max. no. of users in an internal conference (min. 1, max. 4)

T6.3.1

Recall time								
AC	ZC	Standard data	Entered data	Explanation				
S1	41	15		Recall time for transfer before answer (01-99) entry x 2 s				
Barring time				* FIN * ITA * OES * SWE				
AC	ZC	Standard data			Entered data			Explanation
		1.	2.	3.	1.	2.	3.	
S1	44	00	00	00				siehe unten
1st entry = Barring time after incoming call in s (00 bis 99)								
2nd entry = Barring time after outgoing call in s (00 bis 99)								
3rd entry = Barring time of line for last metering pulse in s (00 bis 99)								
Timers				* GBR * IRL * POR				
AC	ZC	Standard data	Entered data	Explanation				
S1	45	24		Dial pulse length min. 10ms, max. 100ms (entry x 2,56ms)				
	46	15		Dialing interval min. 10ms, max. 100ms (entry x 2,56ms)				
	47	60		Calling time after recall, then autom. disconnect (0-98), entry x 1 s 99 = No disconnect				
	48	15		Recall after general call hold (common hold) (01-99), entry x 2 s				
	49	15		Call duration for conference user (01-99), entry x 2 s				
DTMF data/timers				* OES * SWE				
AC	ZC	Std.	Entd.	Explanation				
S1	62	08		DTMF transmission time (min. 0ms, max. 500ms, entry x 10ms)				
	63	24		DTMF interval (min. 20ms, max. 500ms, entry x 10ms)				
	64	05		Release code receivers after dialing (min. 1sec, max. 20sec, entry x 1sec)				
	65	05		Release code receivers without dialing (min. 1sec, max. 20sec, entry x 1sec)				
	66	03		Time in which a feature can be activated from consultation hold 00 = No time limit, service code must be dialed (min. 0sec, max. 5sec, entry x 0,5sec)				
	67	01		Time for simulated end of dialing (1A procedure) (min. 100ms, max. 2sec, entry x 100ms)				
	68	10		Time until line is released when no number is dialed after audible signal is detected (min. 0sec., max. 30sec, entry x 1sec)				
	69	30		Time during which code barring is active (min. 1sec, max. 99sec, entry x 1sec) Post-dialing option under S2-71				

* For country-specific data, see Appendix.

T6.3.2

1110

Flash/timers										* POR	* SWE
AC	ZC	Standard			Entered			Explanation			
		1.	2.		1.	2.					
S1	70	04	14					Flash detection time, 1st entry = min./2nd entry = max. (1st entry must be less than 2nd entry) (min. 40ms, max. 500ms, entry x 10ms)			
Audible signal interpretation/timers											
AC	ZC	Standard				Entered				Explanation	
		1.	2.	3.	4.	1.	2.	3.	4.		
S1	71	04	06	05	12					See below	
1st entry Interface elimin. time (min. duration of audible signal) min. 50ms, max. 2000ms, entry x 50ms 2nd entry Interval between detection of audible sig. and transmission of dialing min. 50ms, max. 4500ms, entry x 50ms 3rd entry Release of line when audible sig. is detected min. 1s, max. 20s, entry x 1s 4th entry Min. duration of exchange dial tone min. 50ms, max. 4500ms, entry x 50ms											
Max. ringing interval for external calls											
AC	ZC	Std.	Entd.	Explanation							
S1	73	06		min. 1sec, max. 20sec, entry x 1sec							
Ringing debounce for incoming seizure											
AC	ZC	Std.	Entd.	Explanation							
S1	74	15		min. 20ms, max. 1000ms, entry x 20ms							
Ringing signal interpretation in satellite PABX traffic											
AC	ZC	Standard			Entered			Explanation			
		1.	2.	3.	1.	2.	3.				
S1	75	08	04	02				See below			
1st entry Interpretation of waiting ringing signal, min. 50ms, max. 4950ms, entry x 50ms 2nd entry Interpretation of 1st ring. interval, min. 50ms, max. 4950ms, entry x 50ms 3rd entry Interpretation of 2nd ring. interval, min. 1s, max. 20s, entry x 1s											

* For country-specific data, see Appendix.

T6.3.2.1

Intervals and timers					* GBR	* NDL
AC	ZC	Std.	Entd.	Explanation		
S1	76	10		Dialing interval for KW (min. 200ms, max. 5000ms, entry x 200ms)		
	77	01		Lead time for dial pulse relay (min. 20ms, max. 1sec, entry x 20ms)		
	78	01		Holding time for dial pulse relay (min. 20ms, max. 1sec, entry x 20ms)		
	79	08		Interdigit interval/max. time between two pulse series (min. 100ms, max. 2000ms, entry x 100ms)		
	80	00		Low-resistive signaling interval (min. 0ms, max. 1000ms, entry x 50ms)		
	81	00		Guard interval prior to switching an incoming call for answering (min. 0sec, max. 10sec, entry x 1sec)		
Dialing delay						
AC	ZC	Std.	Entd.	Explanation		
S1	84	10		Pause following actuation of signal key to main PABX (min. 100ms, max. 3000ms, entry x 100ms)		
Timed release for DID calls					* OES	
AC	ZC	Standard	Entered		Explanation	
		1. 2.	1.	2.		
S1	100	14 14			1st entry = Internal station no. incomplete, following handling in S2* 121-128 2nd entry = Line seized, but no numerical information detected Entry = Time in seconds, min. 10 sec, max. 40 sec.	
Times for metering pulse detection						
AC	ZC	Std.	Entd.	Explanation		
S1	136	03		Min. metering pulse length, entry x 10 ms		
	137	00		Min. pauses between two pulses, entry x 10 ms		
	138	30		Min. metering pulse interval, entry x 10 ms		
	139	00		Max. metering pulse length, entry x 10 ms		

* For country-specific data, see Appendix.

T6.3.2.2

Hotel				
Clocking the message waiting LED (standard tel.)				
AC	ZC	Std.	Entd.	Explanation
S1	140	00		Cycle length, entry x 2,56ms. 00 = inactive, flickering = 02
	141	47		Interval length, entry x 2,56ms

T6.3.2.3

Hotel											
Setting room status 1											
AC	ZC	Standard data				Entered data				Explanation	
		1.ab	2.ab	3.ab	4.ab	1.ab	2.ab	3.ab	4.ab		
S1	151	11	10	00	00					See below	

- 1st entry a = Display room status 1 at check-in
0 = no 1 = yes
b = Room status automatically changes to out at midnight, for telephones after check-in procedure
0 = no 1 = yes
- 2nd entry a = Room status 1 set to out at check-out
0 = no 1 = yes
b = Spare
- 3rd + 4th entry = Spare

T6.3.3

Suffix dialing time					
Line positions 00-07					
AC	ZC	LC	Standard data	Entered data	Explanation
S2	61	00	03		Entry x 5sec min. 5sec, max. 75sec (omitted für group ringing)
	62	01	03		
	63	02	03		
	64	03	03		
	65	04	03		
	66	05	03		
	67	06	03		
	68	07	03		

Suffix dialing time					
Line positions 00-07					
AC	ZC	LC	Standard data	Entered data	Explanation
S2	71	00	00		Entry x 2sec min. 2sec, max. 30sec 00 = Suffix dialing without time limit possible; code barring no started.
	72	01	00		
	73	02	00		
	74	03	00		
	75	04	00		
	76	05	00		
	77	06	00		
	78	07	00		

T6.3.4

2nd audible tone interpretation time										
AC	ZC	Standard data				Entered data				Explanation
		1.	2.	3.	4.	1.	2.	3.	4.	
S2	91	24	16	30	10					See below

- 1st entry = Fault disablement time (minimum signal interval)
Data x 50ms, min. 50ms, max. 2000ms
- 2nd entry = Interval between detection of aud. signal and transmission of dialing
Data x 50ms, min. 50ms, max. 4500ms
- 3rd entry = Time for activation of tone receiver (if tone not detected)
Data x 1sec, min. 1sec, max. 30 s
- 4th entry = Release of line (if no dialing after tone is received)
Data x 1s, min. 1s, max. 30s

T6.3.5

Programmable timer for display				
System-related display data				
AC	ZC	Standard data	Entered data	Explanation
S10	41	10		Duration of time of day/alarm display after actuation of clock key
	42	10		Duration of static call duration display
	43	20		Duration of exec/sec message display
	44	05		Duration of single acknowledgement displays after user input
	45	05		Duration of acknowledgement display after activation of a feature without interruption by other displays
	46	10		Interval until changeover to call duration or line display for external dialing
	47	02		Duration of acknowledgement display after internal dialing/paging without interruption by other displays
	48	02		Duration of acknowledgement display after voice calling without interruption by other displays
	49	10		Time between two initializations of terminal clock

Entry = Time in seconds (possible entries =01-99)

T6.4.1

Audible tones and ringing signals											* FIN	* GBR	* IRL	* ITA	* OES	* SPÀ								
AC	ZC	Standard data					Entered data					Explanation												
		1.ab	2.ab	3.ab	4.ab	5.ab	1.ab	2.ab	3.ab	4.ab	5.ab													
S12																					Cyclic audible tones			
	01	02	03	03	00	50															Dial tone			
	02	99	01	01	00	01																Special dial tone		
	03	10	40	01	00	00																Ringing signal		
	04	05	05	01	00	00																Busy tone		
	05	01	19	01	00	00																Call waiting tone		
	06	01	01	02	04	80																Exec/sec call waiting tone		
	07	03	01	01	20	01																Alerting tone for voice calling (HFAB tone)		
	08	30	01	01	00	00																Door opener tone		
	09	01	19	01	00	00																External call waiting tone		
	10	99	01	01	00	00																Exchange dial tone for standard tel., DTMF		
																							Single tones	
	20	05	01	01	99	91																	Alarm tone	
	21	05	45	01	99	91																	Alerting tone	
	22	14	01	01	99	90																	Announcement tone (paging tone)	
	23	01	01	03	99	90																	Short busy tone	
	24	01	01	03	99	91																	Short negative acknowledgement tone	
	25	06	01	01	99	90																	Acknowledgement tone	
	26	06	01	01	99	91																	Positive acknowledgement tone	
																								Ringing signals
	40	10	40	01	00	00																	Internal ring	
	41	04	02	02	03	80																	External ring (in house)	
	42	04	02	03	03	20																	External ring (exchange)	
	43	20	20	01	00	00																	Exec/sec ring	
	44	08	08	01	00	00																	Recall	
																								Single rings
45	05	01	01	99	90																	Alarm ring		

Cycle length for tones and ringing signals					* SPA
AC	ZC	Standard data	Entered data	Explanation	
S12	60	10		Entry x 10 ms (min. 80 ms, max. 300 ms)	
<p>Explanation</p> <p>1st entry ab = Tone or ring length The tone durations are given by: data x tone length x 10 ms</p> <p>2nd entry ab = Interval length The tone duration are given by: data x tone length x 10 ms</p> <p>3rd entry ab = No. of combinations</p> <p>4th and 5th entries 4ab,5a = Interruption time (3-digit)</p> <p>5b = Tone type 0 = HT 1 (425 Hz) 1 = HT 2 (425/450 Hz)</p>					

* For country-specific data, see Appendix.

T6.5

Date display								
AC	ZC	Standard data			Entered data			Explanation
		1.ab	2.ab	3.ab	1.ab	2.ab	3.ab	
S10	51	30	10	00				Order of date display
1st entry a				2nd entry				
0 = Month/day/year				a = 1st separator				
1 = Month/year/day				b = 2nd separator				
2 = Day/year/month				0 = Blank				
3 = Day/month/year				1 = Period				
4 = Year/day/month				2 = /				
5 = Year/month/day				3 = —				
1st entry b				4 = :				
0 = Month name								
1 = Month in numbers								
Display length * all (nur ZC 101 only)								
Substitute characters/auxiliary characters								
AC	ZC	Standard data	Entered data	Explanation				
S10	101	10		No. of characters in terminal display 00=Terminal with 20-character display in system. 10=only 24-character displays in system.				
	102	14		Absent user text, suffix dialing 1a=Substitute character for *, 1b=Substitute character for #				
	103	—		Advance provisioning (notebook inputs)				
	104	15		Auxiliary characters for text progr. 1a=Cursor character, 1b=End of text marker				
Substitute character								
Blank = 0 : = 4								
Period = 1 * = 5								
/ = 2 # = 6								
— = 3								

* For country-specific data, see Appendix.

T6.5.1

Data for set 191				
Position of system/time line				
AC	ZC	Standard data	Entered data	Explanation
S10	106	03		Line no. of the system line; min = 00, max = 07
	107	08		First column of the system line; min = 00, max = 39
	108	00		First column of the system line in ETB mode min = 00, max = 39
	109	06		Line no. of the time line; = 00, max = 07
	110	21		First column of the time line; min = 00, max = 39

Display layout in set 191 ETB

Line	Column																																						
	00	01	02	03	04	...	36	37	38	39																													
00																																							
01																																							
02																																							
03																																							
04																																							
05																																							
06																																							
07																																							

T6.5.2

Hotel				
Automatic wake-up feature/Announcement after answering				
AC	ZC	Std.	Entd.	Explanation
S1	161	06		Duration of the wake-up signal, entry x 10sec, min. 10sec, max. 990sec
	162	12		Pause between wake-up attempts, entry x 10sec, min. 10sec, max. 990sec
	163	05		Max. number of wake-up attempts, min. 1, max. 99

T6.5.3

Signaling to the public exchange				
Music on hold or ringing tone				
AC	ZC	Std.	Entd.	Explanation
S2	93	00		00 = always MOH (can only be answered)
S1	161	06		Duration of the wake-up signal, entry x 10sec, min. 10sec, max. 990sec

T7.1

Service data								Enter meter readings when servicing
Quality-of-service meters								
AC	ZC	1st visit		2nd visit		3rd visit		Explanation
		Meter	Date	Meter	Date	Meter	Date	
S 6	01							Watchdog
	02							Reset
	04							Fatal CDM error
	05							EPROM error

T7.2

Service data																			
System identifier/National identifier																			
AC	ZC	Data read	Explanation																
S6	09	12/32	System identifier for Hicom 110/120																
	10		National identifier																
	11		Release number																
<p>National identifiers</p> <table border="0"> <tr> <td>00 = Australia (AUS)</td> <td>11 = France (FKR)</td> </tr> <tr> <td>01 = Spain (SPA)</td> <td>12 = Italy (ITA)</td> </tr> <tr> <td>04 = Finland (FIN)</td> <td>13 = Ireland (IRL)</td> </tr> <tr> <td>06 = Great Britain (GBR)</td> <td>14 = Netherlands (NDL)</td> </tr> <tr> <td>07 = Austria (OES)</td> <td>15 = Belgium (BEL)</td> </tr> <tr> <td>08 = Standard (BRD)</td> <td>16 = Portugal (POR)</td> </tr> <tr> <td>09 = Rest of world KEY (WKY)</td> <td>17 = Sweden (SWE)</td> </tr> <tr> <td>10 = Rest of world PABX (PBX)</td> <td>18 = South Africa (RSA)</td> </tr> </table>				00 = Australia (AUS)	11 = France (FKR)	01 = Spain (SPA)	12 = Italy (ITA)	04 = Finland (FIN)	13 = Ireland (IRL)	06 = Great Britain (GBR)	14 = Netherlands (NDL)	07 = Austria (OES)	15 = Belgium (BEL)	08 = Standard (BRD)	16 = Portugal (POR)	09 = Rest of world KEY (WKY)	17 = Sweden (SWE)	10 = Rest of world PABX (PBX)	18 = South Africa (RSA)
00 = Australia (AUS)	11 = France (FKR)																		
01 = Spain (SPA)	12 = Italy (ITA)																		
04 = Finland (FIN)	13 = Ireland (IRL)																		
06 = Great Britain (GBR)	14 = Netherlands (NDL)																		
07 = Austria (OES)	15 = Belgium (BEL)																		
08 = Standard (BRD)	16 = Portugal (POR)																		
09 = Rest of world KEY (WKY)	17 = Sweden (SWE)																		
10 = Rest of world PABX (PBX)	18 = South Africa (RSA)																		
System identifier/National identifier																			
Software identification																			
AC	ZC	Data read					Explanation												
		1.	2.	3.	4.	5.													
S6	21						EPROM 1												
	22						EPROM 2												
	23						EPROM 3												
	24						EPROM 4												

Entry 1 = Binder no.
Entry 2 = Patch version
Entries 3-5 = CRC word

T7.3

Service data S0 Hicom 120 Quality-of-service meters								Enter meter readings when servicing
AC	ZC	1st visit		2nd visit		3rd visit		Explanation
		Meter	Date	Meter	Date	Meter	Date	
S 6	101							Watchdog CB-S0
	102							EPROM error CB-S0
	103							RAM error CB-S0

T7.4

Service data S0 Hicom 120 Run-up test CB-S0								Enter meter readings when servicing
AC	ZC	1st visit		2nd visit		3rd visit		Explanation
		Meter	Date	Meter	Date	Meter	Date	
S 6	110							00 = CB-S0 not present 01 = Error-free 02 = Error, no data exchange, CB-S0 and CB-E 03 = Processor error 04 = EPROM error 05 = RAM error, word 06 = RAM error, high byte 07 = RAM error, low byte 08 = Watchdog disabled

T7.5

Service data S0 Hicom 120 Final inspection S0								Enter meter readings when servicing	
AC	ZC	Inter- face	1st visit		2nd visit		3rd visit		Explanation
			Meter	Date	Meter	Date	Meter	Date	
S 6	120	0							00 = S0 not present 01 = S0 error-free 02 = ISAC error 03 = SICOFI A defective 04 = SICOFI B defective 05 = SICOFI A und B defective
	121	1							
	122	2							
	123	3							

T7.6

Service data S0 Hicom 120 Status of S0 interface								Enter meter readings when servicing	
AC	ZC	Inter- face	1st visit		2nd visit		3rd visit		Explanation
			Meter	Date	Meter	Date	Meter	Date	
S 6	130	0							00 = Layers 1 and 2 inactive 01 = Layer 1 active 02 = Layer 2 active
	131	1							
	132	2							
	133	3							

T7.7

Service data							
Software identification Hicom 120 S0							
AC	ZC	Data read					Explanation
		1.	2.	3.	4.	5.	
S6	150						System identifier CB-S0
	151						Advance provisioning
	152						Softwaree version CB-S0
	153						See below

Entry 1 = Binder no.
Entry 2 = Patch version
Entries 3-5 = CRC-word

T8.1

AC	ZC	AUS	BEL	FIN	GBR	ITA	IRL	NDL	OES	POR	RSA	SPA	SWE	WKY	PBX
S1	1												1.ab=20		
	to												1.ab=20		
	8												1.ab=20		
	12												1.ab=01		1.ab=01
	to												1.ab=01		1.ab=01
	34												1.ab=01		1.ab=01
	44			1.ab=06 2.ab=02 3.ab=10		1.ab=00 2.ab=00 3.ab=60			1.ab=02 2.ab=02 3.ab=03				1.ab=00 2.ab=01 3.ab=00		
	45				1.ab=26		1.ab=26			1.ab=26					
	46				1.ab=13		1.ab=13			1.ab=13					
	47							1.ab=99							
	63									1.ab=08			1.ab=08		
	64									1.ab=03					
	70										1.ab=15 2.ab=50		1.ab=05 2.ab=13		
	71			1.ab=10 2.ab=02 3.ab=03 4.ab=10									1.ab=16 2.ab=01 3.ab=05 4.ab=12		
	73			1.ab=10											
	74												1.ab=20		
	77				1.ab=12								1.ab=02		
	78												1.ab=02		
	79												1.ab=06		
	80								1.ab=06						
83					1.ab=02	1.ab=02									
100									1.ab=20 2.ab=05						
S2	1												2.ab=51		
	to												2.ab=51		
	8												2.ab=51		
	81 H.110								1.ab=00 2.ab=01 3.ab=02						
	81 H.120								1.ab=00 2.ab=01 3.ab=02 4.ab=03 5.ab=04 6.ab=05						
	101								1.ab=11						
	to 106								1.ab=11 1.ab=11						
S3	75									1.ab=11			3.ab=10		
	to									1.ab=11			3.ab=10		
	98									1.ab=11			3.ab=10		
	76											1.ab=11		1.ab=11	
	to											1.ab=11		1.ab=11	
	98											1.ab=11		1.ab=11	
S5	all	00	00	00	00	00	00	00	00	00	00	00	00	00	00
S7	41						2.ab=00			2.ab=00					
	to						2.ab=00			2.ab=00					
	64						2.ab=00			2.ab=00					
	144	-	BF	MK	GBP	LIT	IRP	HFL	OES	ESC	C	PTA	SEK	-	-

T8.2

AC	ZC	AUS	BEL	FIN	GBR	ITA	IRL	NDL	OES	POR	RSA	SPA	SWE	WKY	PBX
S8	04								1.ab=00						
	H.110								2.ab=00						
	07								1.ab=00						
	H.120								2.ab=00						
	08								1.ab=00						
	H.120								2.ab=00						
S10	101	00	00	00	00	00	00	00	00	00	00	00	00	00	00
S11	02				1.ab=6										
	03				1.ab=1										
	11											1.ab=--			
	to											1.ab=--			
	18											1.ab=--			
	19				1.ab=9										
	21				1.ab=9										
	22				1.ab=7										
	29				1.ab=59										
	31				1.ab=21										
	to				to										
	54				1.ab=44										
	56				1.ab=0					1.ab=9					
	85					1.ab=--	1.ab=--								
	90				1.ab=35										
	91							1.ab=0							
95							1.ab=4								
96					1.ab=10										

T8.3

Audible tones and ringing signals for Finland												
AC	ZC	Standard data					Entered data					Explanation
		1.ab	2.ab	3.ab	4.ab	5.ab	1.ab	2.ab	3.ab	4.ab	5.ab	
S12												Cyclic audible tones
	01	02	03	03	00	50						Dial tone
	02	06	01	01	00	00						Special dial tone
	03	10	40	01	00	00						Ringing signal
	04	03	03	01	00	00						Busy tone
	05	01	02	02	04	00						Call waiting tone
	06	01	01	02	04	80						Exec/sec call waiting tone
	07	03	01	01	20	01						Alerting tone for voice calling (HFAB tone)
	08	99	01	01	00	00						Door opener tone
	09	01	02	02	04	00						External call waiting tone
	10	99	01	01	00	00						Exchange dial tone for standard tel., DTMF
												Single tones
	20	03	01	01	99	91						Alarm tone
	21	03	45	01	99	91						Alerting tone
	22	14	01	01	99	90						Announcement tone (paging tone)
	23	01	01	03	99	90						Short busy tone
	24	01	01	03	99	91						Short negative acknowledgement tone
	25	05	01	01	99	90						Acknowledgement tone
	26	05	01	01	99	91						Positive acknowledgement tone
												Ringing signals
	40	10	40	01	00	00						Internal ring
	41	04	02	02	03	80						External ring (in house)
	42	04	02	03	03	20						External ring (exchange)
	43	20	20	01	00	00						Exec/sec ring
	44	08	08	01	00	00						Recall
												Single rings
45	05	01	01	99	90						Alarm ring	
Cycle length for tones and ringing signals												
AC	ZC	Standard data	Entered data	Explanation								
S12	60	10		Entry x 10 ms (min. 80 ms, max. 300 ms)								
Explanation												
1st entry												
ab = Tone or ring length												
(The tone duration are given by: data x tone length x 10 ms)												
2nd entry												
ab = Interval length												
(The tone durations are given by: data x tone length x 10 ms)												
3rd entry												
ab = No. of combinations												
4th and 5th entries												
4ab,5a = Interruption time (3-digit)												
5b = Tone type												
0 = HT 1 (425 Hz)												
1 = HT 2 (425/450 Hz)												

T8.4

Audible tones and ringing signals for Great Britain												
AC	ZC	Standard data					Entered data					Explanation
		1.ab	2.ab	3.ab	4.ab	5.ab	1.ab	2.ab	3.ab	4.ab	5.ab	
S12												Cyclic audible tones
	01	99	03	03	00	51						Dial tone
	02	08	08	01	00	01						Special dial tone
	03	04	02	02	01	81						Ringing signal
	04	04	04	01	00	00						Busy tone
	05	01	19	01	00	00						Call waiting tone
	06	01	01	02	04	80						Exec/sec call waiting tone
	07	03	01	01	20	01						Alerting tone for voice calling (HFAB tone)
	08	30	01	01	00	00						Door opener tone
	09	01	19	01	00	00						External call waiting tone
	10	99	01	01	00	00						Exchange dial tone for standard tel., DTMF
												Single tones
	20	05	01	01	99	91						Alarm tone
	21	05	45	01	99	91						Alerting tone
	22	14	01	01	99	90						Announcement tone (paging tone)
	23	01	01	03	99	90						Short busy tone
	24	01	01	03	99	91						Short negative acknowledgement tone
	25	06	01	01	99	90						Acknowledgement tone
	26	06	01	01	99	91						Positive acknowledgement tone
												Ringing signals
	40	10	20	01	00	00						Internal ring
	41	04	02	03	02	00						External ring (in house)
	42	04	02	02	02	00						External ring (exchange)
	43	20	20	01	00	00						Exec/sec ring
	44	08	08	01	00	00						Recall
												Single rings
45	05	01	01	99	90						Alarm ring	

Cycle length for tones and ringing signals				
AC	ZC	Standard data	Entered data	Explanation
S12	60	10		Entry x 10 ms (min. 80 ms, max. 300 ms)
<p>Explanation</p> <p>1st entry ab = Tone or ring length (The tone duration are given by: data x tone length x 10 ms)</p> <p>2nd entry ab = Interval length (The tone durations are given by: data x tone length x 10 ms)</p> <p>3rd entry ab = No. of combinations</p> <p>4th and 5th entries 4ab,5a = Interruption time (3-digit)</p> <p>5b = Tone type 0 = HT 1 (425 Hz) 1 = HT 2 (425/450 Hz)</p>				

T8.5

Audible tones and ringing signals for Ireland												
AC	ZC	Standard data					Entered data					Explanation
		1.ab	2.ab	3.ab	4.ab	5.ab	1.ab	2.ab	3.ab	4.ab	5.ab	
S12												Cyclic audible tones
	01	99	01	01	00	12						Dial tone
	02	99	01	01	00	00						Special dial tone
	03	10	40	01	00	00						Ringing signal
	04	05	05	01	00	00						Busy tone
	05	01	49	01	00	01						Call waiting tone
	06	01	49	01	00	01						Exec/sec call waiting tone
	07	04	01	01	20	01						Alerting tone for voice calling (HFAB tone)
	08	30	01	01	00	00						Door opener tone
	09	01	49	01	00	01						External call waiting tone
	10	99	01	01	00	00						Exchange dial tone for standard tel., DTMF
												Single tones
	20	04	01	01	99	91						Alarm tone
	21	04	01	01	99	90						Alerting tone
	22	14	01	01	99	90						Announcement tone (paging tone)
	23	01	01	05	99	90						Short busy tone
	24	02	02	05	99	90						Short negative acknowledgement tone
	25	05	01	01	99	90						Acknowledgement tone
	26	05	01	01	99	90						Positive acknowledgement tone
												Ringing signals
	40	04	02	02	03	70						Internal ring
	41	05	02	02	03	60						External ring (in house)
	42	10	40	01	00	00						External ring (exchange)
	43	20	20	01	00	00						Exec/sec ring
	44	08	08	01	00	00						Recall
												Single rings
45	04	01	01	99	90						Alarm ring	

Cycle length for tones and ringing signals

AC	ZC	Standard data	Entered data	Explanation
S12	60	10		Entry x 10 ms (min. 80 ms, max. 300 ms)

Explanation

1st entry

ab = Tone or ring length
(The tone duration are given by: data x tone length x 10 ms)

2nd entry

ab = Interval length
(The tone durations are given by: data x tone length x 10 ms)

3rd entry

ab = No. of combinations

4th and 5th entries

4ab,5a = Interruption time (3-digit)

5b = Tone type

0 = HT 1 (425 Hz)

1 = HT 2 (425/450 Hz)

T8.6

Audible tones and ringing signals for Italy												
AC	ZC	Standard data					Entered data					Explanation
		1.ab	2.ab	3.ab	4.ab	5.ab	1.ab	2.ab	3.ab	4.ab	5.ab	
S12												Cyclic audible tones
	01	99	01	01	00	00						Dial tone
	02	99	01	01	00	01						Special dial tone
	03	15	35	01	00	00						Ringing signal
	04	05	05	01	00	00						Busy tone
	05	03	01	01	25	00						Call waiting tone
	06	03	01	01	25	00						Exec/sec call waiting tone
	07	03	01	01	25	00						Alerting tone for voice calling (HFAB tone)
	08	30	01	01	00	00						Door opener tone
	09	03	01	01	25	00						External call waiting tone
	10	99	01	01	00	00						Exchange dial tone for standard tel., DTMF
												Single tones
	20	03	01	01	99	90						Alarm tone
	21	03	45	01	99	90						Alerting tone
	22	12	01	01	99	90						Announcement tone (paging tone)
	23	01	01	03	99	90						Short busy tone
	24	01	01	03	99	90						Short negative acknowledgement tone
	25	04	01	01	99	90						Acknowledgement tone
	26	04	01	01	99	90						Positive acknowledgement tone
												Ringing signals
	40	15	35	01	00	00						Internal ring
	41	15	35	01	00	00						External ring (in house)
	42	04	02	02	03	80						External ring (exchange)
	43	20	20	01	00	00						Exec/sec ring
	44	08	08	01	00	00						Recall
												Single rings
45	49	10	10	99	90						Alarm ring	
Cycle length for tones and ringing signals												
AC	ZC	Standard data		Entered data		Explanation						
S12	60	10				Entry x 10 ms (min. 80 ms, max. 300 ms)						
Explanation												
1st entry												
ab = Tone or ring length												
(The tone duration are given by: data x tone length x 10 ms)												
2nd entry												
ab = Interval length												
(The tone durations are given by: data x tone length x 10 ms)												
3rd entry												
ab = No. of combinations												
4th and 5th entries												
4ab,5a = Interruption time (3-digit)												
5b = Tone type												
0 = HT 1 (425 Hz)												
1 = HT 2 (425/450 Hz)												

T8.7

Audible tones and ringing signals for Austria												
AC	ZC	Standard data					Entered data					Explanation
		1.ab	2.ab	3.ab	4.ab	5.ab	1.ab	2.ab	3.ab	4.ab	5.ab	
S12												Cyclic audible tones
	01	02	02	03	00	50						Dial tone
	02	99	00	00	00	01						Special dial tone
	03	10	50	01	00	00						Ringing signal
	04	03	03	01	00	00						Busy tone
	05	02	19	01	00	00						Call waiting tone
	06	02	01	02	04	80						Exec/sec call waiting tone
	07	03	01	01	20	01						Alerting tone for voice calling (HFAB tone)
	08	30	01	01	00	00						Door opener tone
	09	02	19	01	00	00						External call waiting tone
	10	99	00	00	00	00						Exchange dial tone for standard tel., DTMF
												Single tones
	20	05	01	01	99	91						Alarm tone
	21	05	45	01	99	91						Alerting tone
	22	14	01	01	99	90						Announcement tone (paging tone)
	23	01	01	03	99	90						Short busy tone
	24	01	01	03	99	91						Short negative acknowledgement tone
	25	06	01	01	99	90						Acknowledgement tone
	26	06	01	01	99	91						Positive acknowledgement tone
												Ringing signals
	40	10	50	01	00	00						Internal ring
	41	04	02	02	03	80						External ring (in house)
	42	04	02	02	03	20						External ring (exchange)
	43	20	20	01	00	00						Exec/sec ring
	44	08	08	01	00	00						Recall
												Single rings
45	05	01	01	99	90						Alarm ring	

Cycle length for tones and ringing signals

AC	ZC	Standard data	Entered data	Explanation
S12	60	10		Entry x 10 ms (min. 80 ms, max. 300 ms)

Explanation

1st entry

ab = Tone or ring length
(The tone duration are given by: data x tone length x 10 ms)

2nd entry

ab = Interval length
(The tone durations are given by: data x tone length x 10 ms)

3rd entry

ab = No. of combinations

4th and 5th entries

4ab,5a = Interruption time (3-digit)

5b = Tone type

0 = HT 1 (425 Hz)

1 = HT 2 (425/450 Hz)

T8.8

Audible tones and ringing signals for Portugal												
AC	ZC	Standard data					Entered data					Explanation
		1.ab	2.ab	3.ab	4.ab	5.ab	1.ab	2.ab	3.ab	4.ab	5.ab	
S12											Cyclic audible tones	
	01	99	01	01	00	01						Dial tone
	02	02	03	03	00	50						Special dial tone
	03	10	40	01	00	00						Ringing signal
	04	02	05	01	00	00						Busy tone
	05	01	10	01	00	00						Call waiting tone
	06	01	01	02	04	80						Exec/sec call waiting tone
	07	03	01	01	20	01						Alerting tone for voice calling (HFAB tone)
	08	30	01	01	00	00						Door opener tone
	09	01	19	01	00	00						External call waiting tone
	10	99	01	01	00	00						Exchange dial tone for standard tel., DTMF
											Single tones	
	20	05	01	01	99	91						Alarm tone
	21	05	45	01	99	91						Alerting tone
	22	14	01	01	99	90						Announcement tone (paging tone)
	23	01	01	03	99	90						Short busy tone
	24	01	01	03	99	91						Short negative acknowledgement tone
	25	06	01	01	99	90						Acknowledgement tone
	26	06	01	01	99	91						Positive acknowledgement tone
											Ringing signals	
	40	10	40	01	00	00						Internal ring
	41	04	02	02	03	80						External ring (in house)
	42	04	02	03	03	20						External ring (exchange)
	43	20	20	01	00	00						Exec/sec ring
	44	08	08	01	00	00						Recall
											Single rings	
45	05	01	01	99	90						Alarm ring	
Cycle length for tones and ringing signals												
AC	ZC	Standard data	Entered data	Explanation								
S12	60	10		Entry x 10 ms (min. 80 ms, max. 300 ms)								
Explanation												
1st entry												
ab = Tone or ring length (The tone duration are given by: data x tone length x 10 ms)												
2nd entry												
ab = Interval length (The tone durations are given by: data x tone length x 10 ms)												
3rd entry												
ab = No. of combinations												
4th and 5th entries												
4ab,5a = Interruption time (3-digit)												
5b = Tone type												
0 = HT 1 (425 Hz)												
1 = HT 2 (425/450 Hz)												

T8.9

Audible tones and ringing signals for Spain												
AC	ZC	Standard data					Entered data					Explanation
		1.ab	2.ab	3.ab	4.ab	5.ab	1.ab	2.ab	3.ab	4.ab	5.ab	
S12												Cyclic audible tones
	01	02	01	03	00	90						Dial tone
	02	02	01	03	00	91						Special dial tone
	03	13	25	01	00	00						Ringing signal
	04	01	01	01	00	00						Busy tone
	05	01	42	01	00	00						Call waiting tone
	06	01	01	02	04	10						Exec/sec call waiting tone
	07	03	01	01	16	71						Alerting tone for voice calling (HFAB tone)
	08	99	01	01	00	00						Door opener tone
	09	01	34	01	00	00						External call waiting tone
	10	99	01	01	00	00						Exchange dial tone for standard tel., DTMF
												Single tones
	20	03	01	01	99	91						Alarm tone
	21	03	01	01	99	91						Alerting tone
	22	12	01	01	99	90						Announcement tone (paging tone)
	23	01	01	03	99	90						Short busy tone
	24	01	01	03	99	91						Short negative acknowledgement tone
	25	04	01	01	99	90						Acknowledgement tone
	26	04	01	01	99	91						Positive acknowledgement tone
												Ringing signals
	40	08	42	01	00	00						Internal ring
	41	04	02	02	03	80						External ring (in house)
	42	04	02	03	03	20						External ring (exchange)
	43	17	17	01	00	00						Exec/sec ring
	44	07	07	01	00	00						Recall
												Single rings
45	03	01	01	99	90						Alarm ring	

Cycle length for tones and ringing signals

AC	ZC	Standard data	Entered data	Explanation
S12	60	12		Entry x 10 ms (min. 80 ms, max. 300 ms)

Explanation

1st entry

ab = Tone or ring length
(The tone duration are given by: data x tone length x 10 ms)

2nd entry

ab = Interval length
(The tone durations are given by: data x tone length x 10 ms)

3rd entry

ab = No. of combinations

4th and 5th entries

4ab,5a = Interruption time (3-digit)

5b = Tone type

0 = HT 1 (425 Hz)

1 = HT 2 (425/450 Hz)



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