

SS-75 LAN BUFFER MAX FLASH VERSION



USER MANUAL

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PURPOSE

1.

2.

The SS-75 LAN buffer is a Call Logging Buffer fitted with an Ethernet Interface for the retrieval of call records via a local (LAN) or wide (WAN) area network.



LAN-----

FEATURES

- Simproved easier MMI commands and set-up
- % ?0/100 Base-T Ethernet (Auto detection)
- ✓ Password access
- Service ABX Maintenance Port
- Single point LAN to LAN buffering
- Remote Buffer setup and download
- Serial port for set up of the Network Interface.
- 28 Kbytes to 256 Mbytes of RAM can be supplied.
- Service ABX connection Opto-Coupled
- ✓ The logging baud rate can be set from 1200 baud to 19200 baud.
- Battery backup will allow storing of call records in buffer.
- Beeper warning when the buffer is full.

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3.	DESCRIPTION		
		FRONTPANEL	
	NETWORK LINK 10 150 COL	RESET BUFFER PABX REMOTE OWN LOAD S0% 80% TX RX RX PABY PWR (ULL DOWN LOAD TX RX RX DUFFER LAN BUFFER	
3.1	FULL beeper Sounds when the unit has been reset, during a memory test or when the buffer is full.		
3.2	RESET switch Used for resetting the Buffer and the Network Interface.		
3.3	LED (Light Emitting Diodes) Indicators		
	LED	Description	
	POWER	Indicates that the unit is supplied with a mains voltage	
	PC RX & TX	Flashes when downloading call records. Indicates transmission to and from the network Interface when setting up the Network Interface. The RX LED flashes very dimly because of high speed and low character rate during transmission RX – Indicates data reception from the PABX port	
PABX RX & TX TX – Transmission to the PABX is not implemented BUFFER 50% & 80% Flashes when the buffer reach 50% and 80% of the The 50% and 80% LED indicators flashes during the test. BUFFER 'heart' Indicates that the Buffer's CPU is running		TX – Transmission to the PABX is not implemented	
		Flashes when the buffer reach 50% and 80% of the full capacity. The 50% and 80% LED indicators flashes during the memory test.	
		Indicates that the Buffer's CPU is running	
LINK A network link is established		A network link is established	
10 Indicates network speed is 10M bps		Indicates network speed is 10M bps	

 100
 Indicates network speed is 100M bps

 Indicates a packet transmitted from the Ethernet controller to the network has collided with another packet. If the LED flashes more than once a second the system administrator needs to be consulted

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LAND		
П	Change the links if needed	Refer to the section '5. Setting the Links' for more information
	Connect the unit to a PC	Use the serial cable and connect it between the PC and the COMPUTER connector on the LAN BUFFER.
	Load a COMS package like Hyper Terminal	Set the parameters to: Bits per second: 9600; Data bits: 8 Parity: None; Stop bits: 2; Flow control: None Refer to "Appendix A HyperTerminal setup"
	Connect power to the unit	Plug the unit into a 220V mains socket and switch it on. Note: If the batteries on the unit were discharged it will sta with a memory test. The 50% and 80% LEDs flash during this test. Wait f the memory test to finish. The unit will reset after the memory test
	Configure the Network Interface	Set the Local IP Address; Subnet Mask & Gateway Addre The command are: LI: Sets the Local IP Address SM: Sets the Subnet Mask GA :Sets the Gateway Address Type the command followed by a space and then the address value followed by Enter, example: LI 192.168.0.1 Refer to the Section "6. Programmable Settings for the Network Interface" in this manual for more information. Note: The default settings are suitable for most applications
	Connect the unit to the LAN Use TELNET to access the buffer via the LAN	Plug the network 10/100 Base-T RJ45 connector into the 10/100 Base-T socket at the back of the unit From your desktop click on 'START' then 'RUN' and then type telnet - click OK. Refer to "Appendix B Load Telnet"
	Configure the Call Logging Buffer Set date/time insertion if needed.	 Set the PABX communication speed using the command SETBAUD. Type the command followed by a space and then the required speed followed by Enter, example: SETBAUD 9600 If the date and time are not included on the PABX call record, you need to set the buffer to include it in the call record. Check the PABX call record by typing S followed by Enter Use the following commands to set date/time insertion: YP – Set the insertion position; SD –date insertion; YY – year insertion; YC – century insertion; TIME - Sets the tim Refer to the Section "7. Programmable Settings for the Call orgging Buffer" in this manual for more information.

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5. SETTING THE LINKS

6.

The links need to be changed from the default positions if:

- The LAN Buffer is used with the Philips IS 1000 or Siemens Opera PABX systems
- Manting to bypass the opto-couplers and connects directly to the PABX input
- A Positive feed is required to the PABX

Unscrew the top four screws and remove the lid to change the Links inside the unit.		Position of Links	
Link	Description		
1	Common Ground: Pin 5 of PABX connector, connected to buffer ground	В	
	B Ground isolated: Pin 5 of PABX connector is isolated (factory)	Α	
0	Voltage Feed: Feed positive voltage on Pin 2 of PABX connector	В	
2	Normal operation (factory)	Α	
C	Direct input from PABX	B (Requires LK 1 in pos B)	
3	Opto-Isolated input from PABX (factory)	A (Recommend LK 1 in pos A)	

PROGRAMMABLE SETTINGS FOR THE NETWORK INTERFACE

Note: The default settings are suitable for most applications

Global commands - Format: <command/> <cr></cr>		
Command	Description	
HELP	Shows a list and description of all the Global commands	
SHOW	Shows the Global settings MAC address and software version	
SHOW <n></n>	n = GDisplays the Global settingsn = socket numberDisplays the Settings for Socket number 'n'	
LOAD	Loads previous settings from Flash memory	
RESET	Resets the unit (Warm start). Breaks connections. The set-up stored in Flash memory will take affect. You will be prompted if you want to save changes.	
REBOOT	Resets the unit (Cold start). Breaks connections. The set-up stored in Flash memory will take affect. You will be prompted if you want to save changes.	

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Global Programmable commands - Format: <command/> <parameter><cr></cr></parameter>			
Command	Description	Note	
LI	Sets the Local IP Address	Use values	
SM	Sets the Subnet Mask	supplied by Network	
GA	Sets the Gateway Address	administrator	
IR	Sets the Initial Retry time in milliseconds	Default: 200	
RC	Sets the Retry Counter	Default: 6	
DM	Display Mode: 'V' Verbose; 'S' Silent	Default: V	
HS	Handshake Source - The command HS used without any parameters toggles the Handshake Source between Port 0 and Port 1	Default: Port 0	

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Command	Descripti	on		Note
	Set the local port number for the socket			
		Socket reference	e table:]
	Socket	Function	Connection	Default values:
LP	0	Buffer	TMS down load / buffer set-up	Socket 0: 23
	1	PABX	RS232 interface to Ethernet	Socket 2: 21
_	2	Network Maintenance Port	Ethernet connection]
UT	Used Time will use Ti	ed TX - Will send data afte med Tx. Note that VM & B	r a short time delay. 'Y' S are always valid.	Default: N
MT	Message	Terminator – Will send the	data after receiving the	Default 0D
	Message	Terminator, enter a value i	n Hex.	(Carriage return)
UM	Use Message Terminator. 'Y' uses the message Terminator; 'N' won't use the message Terminator.			
BS	Block Size: Send the data after the retrieval of a block Enter the size of the block		Default 0	
PS	Socket serial speed: 115200*, 57600*, 19200,9600,4800, 2400, 1200 * only available on Socket 0			Default values: Socket0 - 57600 Socket1 - 9600 Note: Socket 0 must be set to 57600 in order to connect to the buffer
RI	Remote IP Address Must be set if Local mode is active			
RP	Remote P	ort - Must be set if Local m	node is active	
LM	Local Mode Default: Passive			Default: Passive
LC	'Y' will do a Link Check Default: N			Default: N

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Programmable Settings for the Call Logging Buffer Note: The default settings are suitable for most applications

Setup commands - <cr>after the instruction</cr>				
Command	Description	Note		
SETBAUD <nn></nn>	Sets the baud rate to the rate represented by the first 2 characters 'nn'. e.g. use 12 for 1200bd. Note: the full baud rate can be used, (SETBAUD 9600 <cr>)</cr>	Set to: 9600 bd		
SETHELLO <bufnam></bufnam>	Sets the buffer name to <bufnam> - MUST be a 6 of</bufnam>	char name		
YP <n></n>	Sets the date insertion position 1= start of record 0 = end of record	If the date/time		
SD <n></n>	Enables date insertion. 1 = enabled, 0 = disabled	in the call record		
YY <n></n>	Enables year insertion. 1 = enabled, 0 = disabled	the PABX, it		
YC <n></n>	Enables century insertion. 1 = enabled, 0 = disabled	enabled		
BEEP <n> Enables BEEPING. 1 = enabled, 0 = disabled</n>				
SAD <n></n>	Enables autodump mode. 1 = enabled, 0 = disabled			
SAT <n></n>	Sets the delay before dumping to nn * 50 millisec.			
ST <nn></nn>	Sets OnEmpty delay to nn* 50 millisec or the NonAckedResendDelay			
RT <nn></nn>	Sets the number of retries for a UnAcked packet			
SPR <nn></nn>	Sets the reset time for the Network I/F in minutes. r	n = 00 to disable		
UC <n></n>	Converts lowercase to uppercase. 1 = enabled, 0 =	disabled		
LF <n></n>	Stores multiple line feeds. 1 = enabled, 0 = disabled			
TIME YYMMDDhhmmss Sets the time				
S7 <n></n>	/ Bit operation if $n = 1$. Note: use for 7 bit only operation, do not use for 7 bit with parity.			
ISDX <n></n>	 ISDX mode converts Julian Date to YYMMDD for ISDX systems 0 = disabled ;1 = enabled; 2 = enabled with decoding; 3 = enabled with decoding for use with SPACO 			
PROT <n></n>	Turn on protocol (packet mode) 1 = enabled, 0 = disabled			

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Call Logging & Diagnostic Commands - <cr>after the instruction</cr>		
Command	Description	
S or SEND	Send one record	
HELLO	Response is: <02h> <sixcharld><sixcharld><cr><lf></lf></cr></sixcharld></sixcharld>	
VER	Will output the revision number of the MTS unit	
SYS	Diagnostic command. Do NOT use in logging program to get buffer status!	
DUMP	Empty buffer quickly. Do not use for collecting records	
CLEAR	Clears the buffer	
TIME	Response is: TIME YYMMDDHHhhmmss <cr><if></if></cr>	
DISP	Displays some buffer setup info	
/В	Displays approximate buffer capacity in records e.g. 4K <cr><lf> for a 128k buffer</lf></cr>	
/C	Outputs the number of calls in the buffer	
DPRC	Displays the number of resets and clears the reset counter for the Network Interface	
	Sends nn records using following format: DataBlock <cr><lf> < r <record 1=""><cr><lf></lf></cr></record></lf></cr>	
SEND nn	<record nn=""><cr><lf> TotalRecords nn<kr><lf> (nn may be less than the num ber requested, depending on how many records were available for sending.) To display buffer capacity and used memory.</lf></kr></lf></cr></record>	
MM	Response is: MstatccSSSSSSccUUUUUUWhere: ccis used internally and has no useful meaning.SSSSSis the hex value of the memory installed.UUUUUUis the amount of memory used.e.g. Mstat000200000000101 means that the buffer has 128k ramfitted and there are 257 bytes of data in the buffer	

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8. PROTOCOL MODE

Packet Mode Control commands

8.1

	ctrl Q	Start packet output.	
	ctrl F	Acknowledge packet.	
	ctrl S	Stop packet output.	
8.2	Packet Mode Format		
	STX	Start of packet - 0x2	
	<n></n>	Sequence number '0' to '9'	
	<n></n>	Number of records '0' to '5'	
	<id></id>	First 2 chars of buffer ID.	
	<cr><lf></lf></cr>	End of Header.	
	Record1 <cr><lf></lf></cr>		
	Record2 <cr><lf></lf></cr>		
	Record3 <cr><lf></lf></cr>		
	Record4 <cr><lf></lf></cr>		
	Record5 <cr><lf></lf></cr>		
	<cl> ****</cl>	This character is included if the chksum was going to be an ETX.	
	<checksum></checksum>	The result of XORing all the previous bytes, including the STX.	
	ETX	End of packet.	

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TECHNICAL SPECIFICATIONS

Housing	Grey powder coated Aluminium 230 x 130 x 40 mm
LED indicators	PC TX & RX, PABX TX & RX, 80% and 50% full, Heart Beat, Power, LINK, 10-T, 100-H, COL
Connectors	Connecting to PC: 9 way D -Type female Connecting to PABX: 9 way D -Type male Network connection: 10/100 Base-T
Storage medium	Battery backed buffering
Storage capacity	128K to 256Meg
Required voltage	230 V AC; 50 Hz
Current consumption	50 mA
Battery backup	3.6 V 600 mA Ni-Cad. Powers data buffer for up to 3 weeks
Transmission speed	PORT 0: 2400bps ~ 115.2Kbps PORT 1: 1200bps ~ 19.2Kbps
Network Interface Medium	10/100 Base-T (auto detect)
Protocol	TCP-IP or UDP-IP
Data storage	Time stamping of call records and events Data compression, typical ratio 2.5:1 Warning beeper at 95% full DTR enabled dumping of records ASCII handshake protocol Fully error corrected proprietary protocol

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	Load HyperTerminal from your PC. From the Desktop click on start , select Programs, Accessories, Communications and then HyperTerminal		
2	In the Connection Description box enter a name for the connection example '9600' Click on OK		
3	In the Connect To window select the required COM port in the Connect using box. Click on OK .		
	In the COM Properties window		
	set the parameters:		
	Bits per second: 9600;		
	Data bits 8;		
4	Farity: None;		
	Stop bits. 2,		
	FIOW CONTROL: NONE		
	Click on OK		

APPENDIX B: LOADING TELNET				
1	Loading Telnet – Windows			
1.1	From the PC desktop Click start and then Run	-		
1.2	In the Run window type TELNET in the Open box and click OK			
1.3	Connect to the Buffer setup port: Click onto Connect Enter the IP address for the Buffer setup port in the Host Name box and click			
2	Loading Telnet - Windows XP			
2.1	From the PC desktop Click start and then Run			
2.2	In the Run window type TELNET in the Open box and click OK			
2.3	Connect to the Buffer setup port: Type the command OPEN followed by a space and then the address value followed by Enter, example:			

APPENDIX C: SS-75 Web Interface

- 1. CONFIGURING THE IP ADDRESS VIA THE SERIAL PORT
 - 1.1. Use the serial cable to connect between the PC and the computer connector of the LAN BUFFER
 - 1.2. Open HyperTerminal on the PC with the following communication ports setting.

	2
9500	~
8	~
None	~
1	~
None	~
	Bestore Defaulta
K Can	cel Árniu
	9600 8 None 1 None

1.3. Press the reset button on the LAN Buffer.

In HyperTerminal the following information will be displayed.

aricky - HyperTerminal		
He Edit View Call Transfer Help		
		1
System Clock Global settings:-	18.4320 Mhz	
LI Local IP Address SM Subnet Mask GA Gateway Address DN DNS Server Address IR Initial Retry RC Retry Count DM Display Mode HS Handshake Source DH Use DHCP FN Function	165.165.165.35 255.255.255.0 255.255.255.255 255.255.255.255 200 mS 5 Verbose Port 0 N Buffers	
Use SHOW <n> to see in Use THS to see record Use TIME to see buffer Socket 0 Initialised Socket 2 Initialised Socket 3 Initialised Socket 1 Initialised</n>	dividual sockets upload settings time settings 003B0000 003F00000 00420000 00FR0000	
ormected 0:04:00 Auto detect 9	00 BN-1 20031 CAPS NUN Cartus Pritade	<u> </u>
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1.4. Configure the Local IP address, Subnet mask and Gateway as follow:

To change the following you must type

Set the local IP address : LI Eg: LI 192.168.10.100 <enter>

Set the subnet mask : SM Eg: SM 255.255.255.0 <enter>

Set the gateway Address : GA Eg: GA 192.168.10.1 <enter>

To save the setting type RESET S enter

- 2. CONNECTING THE LAN BUFFER
 - 2.1. Connect the Buffer's LAN port to:
 - a) A network switch using a Straight LAN cable Or
 - b) Directly to a PC using a Cross over LAN cable.

2.2. Make sure that the PC and the Buffer are in the same IP Subnet.

2.3. Open the TCP/IP Properties to configure the PC's IP address

ou can get IP settings assigned nis capability. Otherwise, you ne ne appropriate IP settings.	I automatically if your network supports ed to ask your network administrator fo
O <u>O</u> btain an IP address autor	natically
Use the following IP addres	S.
<u>I</u> P address:	192 . 168 . 16 . 200
S <u>u</u> bnet mask:	255 . 255 . 255 . 0
<u>D</u> efault gateway:	S 25 45
O Obtain DNS server address	automatically
⊙ Us <u>e</u> the following DNS serv	ver addresses:
Preferred DNS server:	
<u>A</u> lternate DNS server:	· · · ·
	Advanced.

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3. ACCESSING THE WEB INTERFACE

3.1. Open Internet Explorer on the PC and type the Buffer's IP address in the address field.

The following will be displayed



4. CONFIGURATIONS

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4.1. Global Settings

		Global S	iettings	
	Genera	I		TMS
Use DHCP			Use TMS	
IP Address		192.168.16.100	TMS Server	-
Subnet Mask		255.255255.0	Contact Interval	255
Gateway Addre	ss	192.168.16.1	Buffer ID	•
DNS Server	DNS Server			
Initial Retry T	ime (mS)	200		Time
Retry count		5	Use Time	
Time-To-Live	(hex)	80	Time Server	•
Display Mode		⊙ Verbose ⊙ Silent	Local Offset	65535
Handshake Sou	unce	⊙ PortO ○ Port1		
Function		 Stand Alone Buffers 		
MAC Address		0050C2 4E17CD		
Software Vers	ion	3.00 061229	<u></u>	
		Sub	mit	
ting	Descri	ption		
		•		
	M/book	ticked the DHC		n nly the buffer with a los
neral DHCP	When Addres If this is	ticked, the DH0 ss, Subnet Mas s not ticked the	CP server will su k, Gateway Ado IP Address, Su	pply the buffer with a Loc dress and DNS Server. Jonet Mask, Gateway Add
heral	When Addres If this is and DN	ticked, the DHC ss, Subnet Mas s not ticked the NS Server has to be IP address for	CP server will su k, Gateway Ado IP Address, Su to be configured or the buffer. Th	ipply the buffer with a Loc dress and DNS Server. Jonet Mask, Gateway Ado I manually.
Address	When Addres If this is and DI Sets th the PA	ticked, the DHC ss, Subnet Mas s not ticked the NS Server has to BX and TMS so	CP server will su k, Gateway Add IP Address, Su to be configured or the buffer. Th oftware to recoo	pply the buffer with a Loc dress and DNS Server. ubnet Mask, Gateway Ado I manually. his has to be given in orde gnise the buffer.
Address	When Addres If this is and DI Sets th the PA Identifi commo	ticked, the DHC ss, Subnet Mas s not ticked the NS Server has to be IP address for BX and TMS so es which level op on default is 25	CP server will su k, Gateway Ado IP Address, Su to be configured or the buffer. Th oftware to recog of the network th 5.255.255.0)	apply the buffer with a Loc dress and DNS Server. Jonet Mask, Gateway Ado I manually. his has to be given in orde gnise the buffer. he buffer is installed on. (
neral DHCP Address onet Mask ieway Address	When Addres If this is and DN Sets th the PA Identifi commo The ac	ticked, the DHC ss, Subnet Mas s not ticked the <u>NS Server has to</u> IE IP address for BX and TMS so es which level o on default is 25 ddress of the ga	CP server will su k, Gateway Ado IP Address, Su to be configured or the buffer. Th oftware to recog of the network th 5.255.255.0) ateway or router	apply the buffer with a Loc dress and DNS Server. Johet Mask, Gateway Ado I manually. This has to be given in orde gnise the buffer. The buffer is installed on. (
Address onet Mask seway Address S Server	When Addres If this is and Dr Sets th the PA Identifi commo The ac The IP addres	ticked, the DHC ss, Subnet Mas s not ticked the NS Server has the IP address for BX and TMS so es which level on default is 25 ddress of the ga address for the ses.	CP server will su k, Gateway Ado IP Address, Su to be configured or the buffer. Th oftware to recog of the network th 5.255.255.0) ateway or router e server that tra	apply the buffer with a Loc dress and DNS Server. Johet Mask, Gateway Ado d manually. In has to be given in orde gnise the buffer. The buffer is installed on. (The buffer is connected to nslates domain names int
neral DHCP Address Dnet Mask teway Address S Server al Retry Time (ms)	When Addres If this is and DN Sets th the PA Identifi commo The ac The IP addres Sets th	ticked, the DHC ss, Subnet Mas s not ticked the NS Server has to BX and TMS so es which level of on default is 25 ddress of the ga address for the ses . ne Initial Retry t	CP server will su k, Gateway Ado IP Address, Su to be configured or the buffer. Th oftware to recog of the network th 5.255.255.0) ateway or router e server that tra ime in millisecon	apply the buffer with a Loc dress and DNS Server. Johet Mask, Gateway Ado I manually. In has to be given in orde gnise the buffer. The buffer is installed on. (The buffer is connected to nslates domain names int
Address onet Mask teway Address S Server al Retry Time (ms) ry Count	When a Address of this is and DN Sets the PA Identific common The action The IP address Sets the Set t	ticked, the DHC ss, Subnet Mas s not ticked the NS Server has to BX and TMS so es which level on default is 25 ddress of the ga address for the ses. he Initial Retry to Retry Counter	CP server will su k, Gateway Add IP Address, Su to be configured or the buffer. Th oftware to recog of the network th 5.255.255.0) ateway or router e server that tra ime in millisecon	apply the buffer with a Loc dress and DNS Server. Johet Mask, Gateway Ado d manually. his has to be given in orde gnise the buffer. he buffer is installed on. (the buffer is connected to nslates domain names int nds
neral DHCP Address Dnet Mask teway Address S Server al Retry Time (ms) ry Count te-To-Live(hex)	When a Address of this is and Dr Sets the PA Identific common The action of the IP address Sets the Set the Time-T	ticked, the DHC ss, Subnet Mas s not ticked the NS Server has to BX and TMS so es which level of on default is 25 ddress of the ga address for the ses . ne Initial Retry to Retry Counter Fo-Live. Default	CP server will su k, Gateway Ado IP Address, Su to be configured or the buffer. Th oftware to recog of the network th 5.255.255.0) ateway or router e server that tra ime in millisecon t is 80	apply the buffer with a Loc dress and DNS Server. Johet Mask, Gateway Ado d manually. In has to be given in orde gnise the buffer. The buffer is installed on. (The buffer is connected to nslates domain names into ands
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neral DHCP Address Dnet Mask teway Address S Server al Retry Time (ms) ry Count ie-To-Live(hex) play Mode idshake Source iction S	When a Address If this is and DN Sets the PA Identific common The action of the PA address Sets the Set the Time-T Dictate Toggle Stand Buffers	ticked, the DHC ss, Subnet Mas s not ticked the NS Server has to the IP address for BX and TMS so es which level of on default is 25 ddress of the ga address for the ses. The Initial Retry to Retry Counter Fo-Live. Default so the Handsha Alone will disates will enable the	CP server will such, Gateway Add IP Address, Such to be configured or the buffer. The oftware to recogn of the network the 5.255.255.0) ateway or router e server that tra- ime in millisecon t is 80 ouffer echo's tea ke Source Betwo ole the buffer function	apply the buffer with a Loc dress and DNS Server. Johet Mask, Gateway Ado d manually. his has to be given in orde gnise the buffer. he buffer is installed on. (the buffer is connected to nslates domain names int nds xt to the terminal veen Port 0 and Port 1 inctionality of the unit. ality of the unit.
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Address Address DhCP Address Donet Mask teway Address S Server al Retry Time (ms) try Count ne-To-Live(hex) play Mode ndshake Source nction S S TMS S Server	When a Address If this is and DN Sets that the PA Identific common The address Sets that Set the Time-T Dictate Toggle Stand Buffers	ticked, the DHC ss, Subnet Mas s not ticked the NS Server has to the IP address for BX and TMS so es which level of address of the ga address for the ses . The Initial Retry to the Retry Counter Fo-Live. Default the the Handsha Alone will disates the Handsha able the use of a address of the	CP server will su k, Gateway Add IP Address, Su to be configured or the buffer. Th oftware to recog of the network th 5.255.255.0) ateway or router e server that tra ime in millisecon t is 80 ouffer echo's ter ke Source Betwo ole the buffer function a TMS server where re	apply the buffer with a Loc dress and DNS Server. Johet Mask, Gateway Ado d manually. his has to be given in orde gnise the buffer. he buffer is installed on. (the buffer is connected to nslates domain names int nds to the terminal reen Port 0 and Port 1 nctionality of the unit. ality of the unit.
neral ⇒ DHCP Address onet Mask teway Address S Server al Retry Time (ms) ry Count 1e-To-Live(hex) play Mode ndshake Source 1ction S ⇒ TMS S Server 1tact Interval	When a Address If this is and DN Sets that the PA Identific common The action of the PA address Sets that Set the Set the Time-T Dictate Toggle Stand Buffers	ticked, the DHC ss, Subnet Mas s not ticked the NS Server has to the IP address for BX and TMS so es which level of on default is 25 ddress of the ga address for the ses. The Initial Retry to e Retry Counter Fo-Live. Default es whether the to so the Handsha Alone will disate s will enable the address of the the use of a address of the	CP server will su k, Gateway Add IP Address, Su to be configured or the buffer. Th oftware to recog of the network th 5.255.255.0) ateway or router e server that tra ime in millisecon t is 80 buffer echo's te ke Source Betw ble the buffer function a TMS server where re-	apply the buffer with a Loc dress and DNS Server. Johet Mask, Gateway Ado d manually. his has to be given in orde gnise the buffer. he buffer is installed on. (the buffer is connected to nslates domain names int nds xt to the terminal veen Port 0 and Port 1 inctionality of the unit. ality of the unit. ecords will be sent to. acting the TMS server.

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Use Time	Enable the use of a time server
Time Server	Sets the address the buffer should connect to in order to obtain time from a time server. This can be done with an IP address or domain name.
Local Offset	Sets the time zone in which the buffer functions, (e.g. in South Africa it will be GMT +2 hours, therefore set the time to 120 minutes). This time is always set in minutes.

4.2. SETTINGS FOR SOCKET 0

Primary Port Settings (Socket 0)						
P	orts	Conditions to Tr	ansmit		General	
i.					No-activity time (mins)	10
Port No.	23	Inter-character Time			Password	
Baud Rate	57600 💌	Terminator Char (hex)		0D	Link check	
Bits/Parity	8/None 💌	Block Size		0	Mode	 Passive Active
Re					Protocol	⊙ TCP ○ UDP
Port No.	0					
IP Address	0.0.0.0					
		Sub	mit			
Setting		Description				
Ports Local						
Port No		Identifies the TCP p socket 0	ort yo	ur conne	ection communicates v	with
Baud Rate		Connection speed used when communicating with Buffer vi This should always be set to 57600			er via TCP.	
Bits/Parity		Sets the Data bits a	ind Pa	rity port	settings. Default is 8/N	lone
Ports Remo	te	·				
Port No		The port on the TMS Server that the buffer will communical Only applicable when socket is set to Active Mode.			icate to.	
IP Address		The IP address on the TMS Server that the buffer will communicate to. Only applicable when socket is set to Active Mode.			Active	
Conditions to	o Transmit					
Inter-charact	ter Time	Enable Inter-charac	ter Tir	ne		
Terminator (Char(hex)	Will send the data after receiving the Message Terminator. Enter a value in Hex			or.	
Block Size		Block Size: Send the data after the retrieval of a block. Enter the size of the block				
General						
No-activity ti	me(mins)	No activity time out				
Password		Password of the so	cket			
Link Check		Will do a Link Chec	k			
Mode		Dictates whether th Or if the server esta Default mode is Pas	e buffe Iblish t Isive.	er establ he conn	ish the connection(Set ection(Set to Passive)	t to Active)
Protocol		TCP or UDP	-			

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4.3. SETTINGS FOR SOCKET 1

		Seco	ndary Port S	erring	JS (Socke	271)	
Por	rts	(Conditions to Tr	ansmit		General	
						No-activity time (mins)	10
Port No. 2	2	Inter-c	haracter Time			Password	
Baud Rate 9	600 💌	Termina	tor Char (hex)		0D	Avaya Prompt (hex)	FF
Bits/Parity 8	3/None 💌	Block Si	ze		0	Link check	v
Dam						Mode	Passive
						mode	O Active
Port No. 6	5535					Protocol	
TP Address 2	55,255,255,255						0.001
			Sub	mit			
) <u>,</u>							
Setting			Description				
Ports Local			Decemption				
Port No			Identifies the	TCP p	ort you	r connection communi	cates with
			socket 1				
Baud Rate Cor			via TCP. Default is 9600				
Bits/Parity	Parity Sets the Data bits and Parity po			ity port settings. Defau	It is 8/Non		
Ports Remote	;						
Port No			The port on t	he TM	S Serve	er that the buffer will	
			communicate	eto.		at is act to Active Med	-
IP Address			The IP addre	ss on	the TM	S Server that the buffe	e. rwill
			communicate	e to. O	nly appl	icable when socket is	set to
0 1111 1	- -		Active Mode.				
Conditions to			Enchle Inter			-	
Inter-characte	er Time bar(box)		Will cond the	data c	ftor roc	e oiving the Message Tr	orminator
	nar (nex)		Enter a value	in He	x	eiving the message re	
Block Size			Block Size: Send the data after the retrieval of a block.				
			Enter the size of the block				
General							
No-activity tii	me(mins)		No activity tir	ne out			
Password		Password of the socket					
Avaya Promp	t(hex)		The hex valu	e for t	he Avay	/a	
Link Check			Will do a Lin	k Chec	k		
Mode			Dictates whe	ther th	e buffer	establish the connect	ion
			(Set to Active	e) Or	ala 41		
			IT THE SERVER		sn the c		
Drotocol				ve, De		JUC 13 1 2331VC.	

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4.4. SETTINGS FOR SOCKET 2

Teli	net Configuration Port	Settings (Socket 2)	
Ports	Conditions to Transmit	General	
Local	Inter-character Time 🛛	No-activity time (mins)	10
Port No. 21		Password	
		Mode	⊙ Passive ○ Active
		Protocol	⊙ TCP ○ UDP
	Submit)	
Setting	Description		
Ports Local			
Port No	Identifies the TCP port	your connection comm	unicates wit
Conditions to Transmit			
Inter-character Time	Enable Inter-character	Time	
Conorol			
General			
No-activity time(mins)	No activity time out		
No-activity time(mins) Password	No activity time out Password of the socket		
No-activity time(mins) Password Mode	No activity time out Password of the socket Dictates whether the bu (Set to Active) Or if the server establish th (Set to Passive) Default	Iffer establish the connection	ection

4.5. SAVE SETTINGS



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4.6. SET PASSWORD

	Set Password
	User Name: - Enter password: Re-enter password: Submit
Setting	Description
Set Password	
User Name	Set user name for the Web interface
Enter Password	Set password for the Web interface
Re-enter Password	Confirm password

4.7. BUFFER SETTINGS

Record Modif	iers	General			Date	/ Time	
Convert to uppercase		PABX Baud Rate	9600 🐱				
7-Bit operation		Buffer Name	n% 25250	Date	08	02	26
Store multiple linefeeds		Beep enabled					
Binarymode		Autodump enabled					
STX (hex)	FF	Autodump delay (x 50 mS)	20				
ETX (hex)	0D	Send timer (x 50 mS)	40	Time	08	38	29
Date and Time Insertion		Retry Count	5				
Insert Year		Network reset time (mins)	60				
Insert Century		Software Version:	1.21				
Insert date at:	○Record start ⊙Record end						
	Save				Up	date	
		Refresh					
Memory Installed(hex)	100000	Memory Used (hex)	000000				
ing		Description					
ord Modifiers							
vert to uppercase		Converts lowercase	to upper	case	;		
operation		Use for 7 bit only op	eration				
e multiple linefeeds		Stores multiple line	feeds				
numerical Cot the lenging to binony mode							

Binary mode	Set the logging to binary mode
STX (hex)	To set the start character for a record. All data will be discarded until this character is received. Default is FF
ETX (hex)	The call record will be terminated when the ETX character is received. An End OF Line character will be stored in memory and will be output as a Carriage Return / Linefeed pair. Default is 0D
Date and Time Insertion	Enables the date insertion to the record

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Insort Voor	Enables year insertion
Insert Century	Enables century insertion
Insert date at:	Sets the date insertion position
General	
PABX Baud Rate	Sets the baud rate of the PABX port
Buffer Name	Sets the buffer name. MUST be a 6 character name
Beep enabled	Enables Beeping
Autodump enabled	Enables auto dump mode
Autodump delay (x 50 mS)	Sets the delay before dumping
Send timer (x 50 mS)	Sets OnEmpty delay
Retry Count	Sets the number of retries for a UnAcked packed
Network reset time (mins)	Sets the reset time for the Network I/F
Software Version:	Will output the revision number of the buffer
Date / Timer	
Date	Sets the date
Time	Sets the time

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10. CONTACT DETAILS



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