VINGTOR STENTOFON

Replacing Primary System Controller on ESC1

Item NumberItem NameDescription100 9202 100AMC-IPExigo Primary System Controller Board



Disconnect all power from the ESC1 System Controller before removing or installing the Primary System Controller (PSC) board.



Before you replace the old PSC board, take note of its IP address and other configuration settings in the system so as to ensure that these are retained in the new board.

• Use the menu selection knob on the system controller to select **Information** > **Network** to find the Primary Controller IP address on the display.

Figure 1: PSC Board

1 Accessing the Primary System Controller Board

The Primary System Controller board is located inside the ESC1 System Controller.

Before you start the procedure:

- 1. Switch off and disconnect the system controller from the power mains.
- 2. Open the front cover by unscrewing the two socket screws (hex key 2.5 mm) about 15 mm out.



Figure 2: Front Cover Screws

3. Using extractors to hold the screws, pull the front cover out and tilt it down firmly to access the inside of the unit.

The Primary System Controller board is located in the lower slot position.

2 Removing the Primary System Controller Board



Observe precautions for handling Electrostatic Discharge (ESD) sensitive devices when handling the PSC board!

- 1. Grip the handle of the board.
- 2. Pull the PSC board out of the slot.



Figure 3: PSC Board in System Controller

3 Installing the New Primary System Controller Board

3.1 Inserting the SIM Card

Before installing the new PSC board into the ESC1 system controller, the SIM card containing the MAC address must be inserted in the socket located in the lower-right corner of the board (Figure 1).

To insert the SIM card into the socket:

1. Slide the metal retention clip in the direction shown to open the socket (Figure 4 & Figure 5).





Figure 4: Retention Clip Closed

Figure 5: Retention Clip Open





Figure 7: SIM Card in

Socket



Figure 8: Socket Closed

Figure 6: Lid Open

- 2. Flip the socket lid open (Figure 6).
 - The lid itself comprises the socket
- 3. Insert the SIM card into the socket (Figure 7).
- 4. Close the lid and slide the retention clip back to lock the socket (Figure 8).

3.2 Inserting the PSC Board

To insert the PSC board:

- 1. Grip the handle of the board.
- 2. Insert the PSC board into the lower slot position.
- 3. Slide the PSC board along the slot until it plugs into the connectors at the back.
- 4. Power up the system controller.

4 Configuring the New Primary System Controller

To log into the PSC board:

1. Connect your PC to the internal service port npe_etho inside the system controller (Figure 9)



Figure 9: Service Port in System Controller

- 2. Open a web browser and enter the default IP address of the service port: 169.254.1.5
- 3. Log in with username: admin and password: alphaadmin

4.1 IP Address Settings

To set the IP address of the PSC:

1. Select System Configuration > Interfaces

	haWeb X	KE			
System Monitoring Syste	m Configuration	System Maintenance	External Systems	Custom Scripts	Help
▼ Interfaces	Interfaces				_
▶ Routes	Interface IP Address/prefi	npe_eth0 ix len 169.254.1.5/23	range: 169	9.254.0.1 - 169.254.1.3	254
▶ Filters	Interface	npe_eth1			
▶ Stations	IP Address/prefi	ix len 10.5.11.11/24	range: 10.	5.11.1 - 10.5.11.254	
► Logging					
▶ Licensing	R	evert	Vali	date	
▶ User Management	Status				
▶ Time and Date	Interface	Subnet		MAC	Address
> DNS	eth0	Link Dov	'n	00:13	CB:02:20:9E
It Host Names	etn1	10.5.11.1	11/24	00:13	CB:82:20:9E
DHCP server					
▶ Messaging					
▶ High Availability					
▹ SIP settings					

2. Enter the appropriate IP address (same as for the old PSC) in the npe_eth1 field



Use the exact same npe_eth1 IP address as the one for the old PSC that has been defined in the configuration plan. DO NOT change the IP address of the service port npe_eth0.

4.2 NTP Server Settings

To set the NTP server of the PSC:

1. Click System Configuration > Time and Date

System Monitoring	System Configuration	System Maintenance	External Systems	Custom Scripts	Help	
▹ Interfaces	Time and Da	te				
Routes	Your Pagion	Local Time				
▶ Filters	Europe/Oslo	Wednesday 23r	d of September 2015 1	3:38:03 CEST		11:38:03
Stations	Select New F	Region				
▶ Logging	New Region	Select You	r Zone			
▶ Licensing		Europe	~			
User Managemer	nt	Submit				
▼ Time and Date						
	Set Localtim	e				
> DNS	New Date/Time	Date 23.09.2015	Time 13:38:03]		
Host Names				J		
DHCP server		Set Time				
Messaging	Configure No	etwork Time Protoc	ol (NTP) Server			
▶ High Availability			IP Address			
▹ SIP settings	Configured services	ver IP Address	10.5.2.19			
		luitess	10.3.2.13			
	Test Ser	ver Set Server	Get Time			
	Configuratio	n File				
	Configuration F	ile	Last Saved		Last Ap	plied
	amc_ip_config.	xml	2015-09-22 15:22	2:12	2015-02	2-16 10:41:21
				Apply		

- 2. Set the **Region** in the **Select Your Zone** dropdown box according to the one defined in the configuration plan.
- 3. Set the **IP Address** to the NTP server according to the one defined in the configuration plan.
- 4. Click Apply

The PSC will now enable the NTP server that the other devices use.

4.3 Firewall Filter Settings

Firewall Filter Settings of the PSC may require some adjustments.

To configure Firewall Filter Settings:

1. Click System Configuration > Filters

Interfaces	Firewall Filter Settings					
Routes						
 Filters 	Search:					
	Protocol		Port (Lo:Hi)	Eth0	Eth1	Action
	TCP		¥			
Stations	AlphaNet Data		50000			Delete
Logging	AlphaPro		60001			Delete
Cogging	AlphaVision		55010			Delete
 Licensing 	cmd		63334			Delete
User Management	DNS server top		53			Delete
Time and Date	HTTP		80			20.0.0
Fine and Date	HTTPS		443			
▶ DNS	IP Stations		50001			Delete
Host Names	Multimodule Data		50010			Delete
	OPC Server 1		61112			Delete
P DHCP Server	OPC Server 2		61113			Delete
Messaging	SSH		22			Delete
High Availability	ZAP (Zenitel Applicaton Protocol	n	50004			Delete
CID anthings	ZAP web	·/	8080		▼	Delete
51F Settings	UDP					
	DHCPv4 client		68			Delete
	DHCPv4 server		67			Delete
	DNS server udp		53			Delete
	NTP server		123			Delete
	SIP		5060			Delete
	SNMP		161			Delete
	VoIP Audio		61000:61150	✓	✓	Delete
		Add Fil	ter Save			
	Showing 1 to 21 of 21 entr	ies				
	Configuration File					
	Configuration File	Last Saved		Last Applied		
	amc_ip_config.xml	2015-09-22 15:22	2:12	2015-02-16 1	0:41:21	

- 2. Enable or disable the firewall filter settings for the Eth0 and Eth1 ports as shown.
- 3. Click **Save** followed by **Apply** to enable the settings for the firewall filter.

4.4 Upload Message Files

To upload the message files in WAV format:

1. Click System Configuration > Messaging

terraces	Custom Audio Message Fi	iles:					
outes	Search:				Dis	splay 15 V reco	
lters		Size					
tations		(kB)	© Modified Date		© Related Dirno	Action ≎	
ogging	Isvo 030 001 wav	Ŷ					
censing	Stop	1065.2	2014-12-08 13:37:55	(30)Announcement message (1)	94001 Message 1	[Select for upload] [Delete]	
ser Management	Stop						
me and Date	[svp_030_002.wav] Play	212.3	2015-06-10 12:56:26	(30)Announcement message (2)	94002 Message 2	[Select for upload] [Delete]	
NS	Stop			(-)	-	,	
ost Names	[svp_030_003.wav] Play	212.3	2014-10-10	(30)Announcement message	94003 Message	[Select for upload]	
HCP server	Stop		13.53.16	(3)	3	[Delete]	
essaging	[svp_030_004.wav] Play	70.1	2014-10-10	(30)Announcement message	94004 Message	[Select for upload]	
	Stop	10.1	13:53:28	(4)	4	[Delete]	
iah Availability	[svp_030_005.wav] Play		2014-10-10	(30)Announcement message	94005 Message	[Select for unload]	
ID settings	Stop	407.6	13:53:40	(5)	5	[Delete]	
r settings	[svp_030_006 wav] Play		00444400	(00)	0.0000.00	10-1-1-1-1-1	
	Stop	80.1	2014-11-03 14:07:20	(30)Announcement message (6)	94006 Message 6	[Select for upload] [Delete]	
	[svp_030_007.wav] Play	19.8	2014-11-03 14:07:33	(30)Announcement message (7)	94007 Message 7	[Select for upload [Delete]	
	Stop						
	[svp_030_008.wav] Play	19.8	2014-11-03	(30)Announcement message	94008 Message	[Select for upload]	
	Stop		14.07.40	(6)	0	[Delete]	
	[svp_030_009.wav] Play	19.8	2014-11-03	(30)Announcement message	94009 Message	[Select for upload]	
	Stop		14:17:17	(9)	9	[Delete]	
	[svp_030_010.wav] Play	10.0	2014-11-03	(30)Announcement message	94010 Message	[Select for upload]	
	Stop	19.8	14:17:31	(10)	10	[Delete]	
	[svp_030_501.wav] Play		2015 09 12	(20)Appoundement mossage		[Soloct for upload]	
	Stop	46.9	16:19:16	(501)	94501 Chime 1	[Delete]	
	Showing 1 to 11 of 11 entries	5			First Prev	ious 1 Next La	
	Free space for Wav files: 8057.3kB						
	Upload Wav File:						
	Message Group	Grou	p Index	File To Upload			
	(30)Announcement message	~			Browse		

- 2. Select Message Group and Group Index according to the configuration plan.
- 3. Click Browse to locate the WAV file

4. Click Upload

These message files include custom alarms and chimes and hence it is of critical importance that the correct files are being uploaded.



In an A-B system, the messages should be identical on both the PSC on System A and the PSC on System B. It is therefore possible to verify that the correct messages and chimes have been uploaded by comparing the replacement PSC with the PSC on the other system.

4.5 Enabling Syslog

To enable Syslog on the PSC:

1. Click System Configuration > Logging

System Monitoring Sys	stem Configuration Sys	tem Maintenance	External Systems	Custom Scripts	Help	
▹ Interfaces	Log Configuratio	n				
Routes			• *			
Filters	Local Filesystem	Confi	aured [Edit]			
r Thers	Local Serialport	Not c	onfigured [Edit]			
Stations	Remote Syslog (UDP	/TCP) Not c	onfigured [Edit] / [/	Add]		
▼ Logging	E-Mail	Not c	onfigured [Edit] / [/	Add]		
20333	SNMP Trap	NOT C	onfigured [Edit] / [/	Adaj		
▶ Licensing	Log Test					
▶ User Management						
Time and Date	Action	Generate test	log messages			
► DNS	AMC System Log	g File Storage				
▶ Host Names						
DHCP server	Used/Free Log	Space: 2841/2	2712 kB			
▶ Messaging						
High Availability	File Name	Size (kB)	Last Log Date	e	Oldest Log Date	Action
	AlphaSystem	2528.5	2015-09-17 14	4:19:40	2015-06-29	[Delete]
 SIP settings 	AlphaDebug	312.7	2015-09-22 15	5:22:21	2015-06-29	[Delete]
			Clean-up (Rer	move the oldest	10% of log)	
	Configuration Fil					
	Configuration Fi	C				
	Configuration File		Last Saved		Last Applied	
	amc_ip_config.xml		2015-09-22 15:2	2:12	2015-02-16 10:41:21	
				Apply		
				APP'S		

- 2. Click Edit on the various logs to configure each one.
 - Configure according to the configuration plan.
- 3. Click **Apply** to apply the logging mechanism.



In an A-B system, logging is usually identical on both the PSC on System A and the PSC on System B. It is therefore possible to verify that correct logging has been enabled by comparing the replacement PSC with the PSC on the other system.

4.6 Routes Configuration

To configure the network routes for the PSC:

1. Click System Configuration > Routes

System Monitoring	System Configuration	System Ma	intena	nce External	Syster	ms Custom	Scripts	Help
,,	-,				- /			
▶ Interfaces	Configured	Routes						
▼ Routes			-	D				
	IP forwarding t	between inter	faces	Do not forward			~	
·	Routes							
Filters	Destination n	et	0.0.0.0	//0	_	Default route		
Stations	Gateway on lo	ocal subnet	10.5.1	1.1				
▶ Logging	Interface		npe_e	th1 (10.5.11.11				
▶ Licensing					501010	Add new		
User Managemen	t	evert			Valid	late		
Time and Date								
▶ DNS	System Rou	te Status						
Host Names	Destination net	t			G	Sateway		Out Interface
DHCP server	10.5.11.0/24				0	.0.0.0 0.5.11.1		npe_eth1 npe_eth1
, price server								
Messaging								
High Availability								
▹ SIP settings								

- 2. Set the **Gateway on local subnet** and **Interface** addresses according to the ones defined in the configuration plan.
- 3. Click Validate

After the replacement and configuration of the PSC board is complete:

- 1. Tilt the front cover up and slide it into the cabinet.
 - Make sure that the flat cable slides in properly.
- 2. Press the front cover to the flush position and refasten the two front socket screws.



The successful replacement of the PSC board is indicated by the network icon on the system controller display turning yellow.

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