## INSTALLATION MANUAL PHONTECH 6200



# Phontech 6200



www.jotron.com



#### Standards

The equipment is tested to the following product standards:

EMC:	EN60945 (2002), EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5,
	EN61000-4-6, EN61000-4-11, IEC60092-101
Environmental:	EN60945 (2002), EN60068-2-1, EN60068-2-1, EN60068-2-2, EN60068-2-6,
	EN60068-2-30, EN60068-2-52
Ingress protection:	IEC60529
Compass safe distance:	EN ISO 694
Health and Safety:	EN60950, CSA-C22.2 60950

For an updated list of approvals and statements of conformity, these are available from:

www.jotron.com



## **Amendment Record**

NO	INIT	DATE	CHAPTERS	VERSION	REASON FOR CHANGE
0	H.S.	24.05.13	All	А	Initial release
1	K.A.T.	01.09.14	2	В	Updated manual for 1.2 firmware release.
2	K.A.T	10.10.14	N/A	С	Added warranty and utilization section.
3	K.A.T	11.05.15	2.3	D	Updated for trunk parking functionality.
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					



The information in this book has been carefully checked and is believed to be accurate. However, no responsibility is assumed for inaccuracies.

Jotron AS reserves the right to make changes without further notice to any products or modules described herein to improve reliability, function or design. Jotron AS does not assume any liability arising out of the application or use of the described product.

## **SAFETY INSTRUCTIONS**



This equipment contains CMOS integrated circuits. Observe handling precautions to avoid static discharges which may damage these devices.



## **TABLE OF CONTENTS**

<u></u>		I
<u>1</u>	SYSTEM DESCRIPTION	
1.1	MAJOR FUNCTIONS	1-1
1.2	Stacking	1-3
1.3	RACK MOUNTING	1-4
1.4	INSTALLING LINE BOARDS IN THE PHONTECH 6200	1-5
1.5	FXS BOARD	1-6
1.6	FXO BOARD	1-7
1.7	UPN BOARD	1-7
1.8	E&M BOARD	1-7
1.9	6200 Power terminal module	1-8
1.10	0 TECHNICAL DATA	1-9
2	INSTALLATION	2-9
<u> </u>		<u> </u>
2.1	INSTALLATION GUIDE	2.0
<b>2.1</b>		-
2.1.		-
2.1.		
2.1.		
2.1.		-
2.1.		
2.1.		
2.1.		
2.1.		
2.1.		
2.1.		
2.1.		
2.1.		
2.1. 2.2		
	1 Overview	
2.2.		
2.2.		
2.2.		
2.2.		
2.2. 2.3		
2.3.		
2.3.	-	
2.3.		
2.3.		
2.3.		
2.3.		
2.4		



2.4	L1 LED Indications	
2.4	I.2 FRONT PANEL DISPLAY	
2.4	I.3 FIRST RUN WIZARD	
2.4	4.4 Menus	
2.5	CALL LOGGING WEB INTERFACE	2-76
2.5	5.1 LOGGING ON TO THE CALL LOGGING WEB INTERFACE	
2.5	5.2 Users / Pins page	
2.5	5.3 INDIVIDUAL USER AND PIN PAGES	
2.5	5.4 Reports page	
2.5	5.5 Payment page	
2.5	5.6 BILLING RATES PAGE	
2.5		
3	WALL MOUNTED ENCLOSURES AND TYPICAL CONFIGURATIONS	2 00
<u> </u>	WALL MOUNTED ENCLOSORES AND TIFICAL CONFIGURATIONS	
3.1		
3.2		
3.3	<b>15U PABX/PA/GA</b> COMBINATION ENCLOSURE	3-91
4	INTERCOM UNITS	4-92
4.1	GENERAL CONFIGUTRAION INFORMATION	1-97
4.1		
4.2 4.3		
4.5 4.4		
4.4 4.5		
-		
4.6		
4.7		
4.8		
4.9	TYPE 6035 HEADSET WITH HOOKSWITCH	4-106
<u>5</u>	ANALOG TELEPHONES	5-107
5.1	EUROSET 5005	5-107
5.2	FEP 2010 FLUSHMOUNTING TELEPHONE	5-108
5.3	DICS 5113/5123 FLUSHMOUNTING TELEPHONE	5-109
5.4		
5.5	<b>DICS 5111-H</b> with headset interface	5-111
5.6	<b>EX R</b> ESIST <b>TEL</b> TELEPHONE FOR HAZARDOUS AREAS	5-112
c		C 112
<u>6</u>	IP TELEPHONES	6-113
6.1		
6.2		-
6.3	RESISTTEL IP	6-115



<u>7</u>	NETWORKING EQUIPMENT	7-116
7.1	SF-300	7-116
<u>8</u>	ACCESSORIES	8-117
8.1	50 PORT TELEPHONY PATCH PANEL	8-117
8.2	24 PORT CAT5E PATCH PANEL	8-117
8.3	6205 48 PORT PATCH PANEL FOR SHIPS CABLE.	8-118
8.4	Y-CABLE FOR 6205 PATCH PANEL	8-119



#### SERVICE AND WARRANTY

Warranty time: 2 years from factory.

All goods sold by Jotron AS are warranted to be free from defect in workmanship and material for the period of twenty-four (24) months from the date of delivery (unless stated otherwise and confirmed in writing) PROVIDED:

- (a) Jotron AS is given full particulars in writing of any claim prior to the expiration of such a period and within fourteen days of the discovery of the alleged defect.
- (b) The product/s have been stored, maintained or used according to manual/s and specification/s
- (c) Liability shall be limited at Jotron AS' options to replacement or repair or to a sum not exceeding the net invoice value of the defective goods.
- (d) Upon request the alleged faulty goods are returned to Jotron AS at the Buyer's expense.
- (e) Unless expressly stipulated in the acceptance of the order Jotron AS gives no warranty or guarantee of the fitness or suitability of the goods for any purpose whether disclosed or otherwise.
- (f) All other warranties or conditions expressed or implied are hereby excluded and Jotron AS shall in no circumstances be liable for consequential damages.

#### **UTILIZATION:**

This equipment is not to be disposed in normal waste, but be handled in accordance with applicable waste disposal regulations in the country where the equipment is used



## **1 SYSTEM DESCRIPTION**

The Integrated Communication System Phontech 6200 is designed to meet the requirements for internal communications and shore connections on board ships.

The system is based on the Phontech 6200 unit. The exchange shall be built using one or more 1U 19 inch Phontech 6200 units.

The Phontech 6200 units have a built in 2 port fast Ethernet switch for cascading. It supports ring network for redundancy. One 1U unit supports up to 24 lines. FXS and FXO, 8 wire E&M and UpN(Dics) lines are supported. The unit will support a mix of up to 6 line modules with 4 lines each. Each line is terminated in a RJ45 jack. A typical PABX configuration could be 5 x 4FXS + 1x4 FXO for a total of 20 telephones and 4 trunks. Typical intercom configuration could be 4x4UpN + 4FXO + 4E&M. A 2x16 LCD character display with switches is provided to view status messages and configure basic functions.

VoIP trunks and terminals are terminated using the Ethernet connection. Up to 50 VoIP (SIP) registrations per unit are supported. A number of SIP trunk lines are supported on each Phontech 6200 unit.

The exchange cabinet is normally located on the ships bridge, or the electronic equipment room. The intercom stations may be located in locations requiring two way communications, like the engine room, engine control room, mooring stations, generator rooms etc.

The Phontech 6200 is tested and approved according to IEC 60945.

The Phontech 6200 is backward compatible with Phontech DICS terminal hardware. Termination can be directly on the front panel using CAT5e type cable and RJ-45 connectors, or using 19" patch panels and patch cables.

## **1.1 MAJOR FUNCTIONS**

PABX operation. Intercom operation. Public address. Access to external systems and nets. Cost effective modular design. Flexible dual power supply configuration. Flexible Numbering plan Call groups Call hunting groups Paging groups Individual paging Intrusion Call transfer Call forwarding Wake up calls Who am I / Identification Automated switchboard **Direct Inward Dialing** 





Conference bridge Configurable access control Redundant power supplies Self-diagnostic functions Field upgradeable hardware and software Programmable priority structure.

Various intercom units for all purposes.

- Office types.
- Flush mounted.
- Weather/ water protected types.
- Noisy area compliant types with extra signal device activation and connection for headset and loudspeaker.

Mechanical layout



Electrical connections







## **1.2 STACKING**

Multiple Phontech 6200's communicating using the Ethernet ports LAN1 and LAN2. The LAN1 and LAN2 ports are connected internally by a built in Ethernet switch. Interconnecting 6200 units is done by connecting Ethernet patch cables between the LAN ports. Three topologies are possible.

1. Tree topology, which is the simplest.





2) Star topology, which includes the use of an external switch



3. Ring topology, which has the added benefit of redundancy.

cisco cisco an i gi most jaren tirditterepetanen	
номая ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (	
	With switch

The Ethernet connections have a maximum segment length of 100m. If longer segments are required, repeaters or media converters can be used. This allows for physical separation of multiple Phontech 6200 units within a single system.

#### **1.3 RACK MOUNTING**

It is recommended to arrange the Phontech 6200 units in pairs with a patch panel in between for easy patch cable arrangement. Ports 1-24 on upper 6200 unit will connect to the upper connector row on the patch panel, and the lower 6200 to the lower row.







Allow space for arranging the cables both inside and on the front of the cabinet.

## **1.4 INSTALLING LINE BOARDS IN THE PHONTECH 6200**

The line boards are installed on the carrier board inside the Phontech 6200 unit. The line boards are color coded.

Interface	Boardco	blor
FXS	Green	
FXO	Red	
E&M	Black	09601-007 R1127
UpN	Blue	

Up to 6 line boards can be installed in any order on the carrier board.







Line interface board connectors relates to front panel ports in the following way:

Line interface board	Ports
1	1 - 4
2	5 - 8
3	9 - 12
4	13 – 16
5	17 – 20
6	21 – 24

#### 1.5 FXS BOARD

The FXS line board supplies 4 lines of traditional analog telephone lines, aka POTS, Plain Old Telephone Service. The FXS line is connected to terminals 4 and 5 on the RJ-45 jack. Parallel connection of terminals is possible.

Line voltage -48VDC Ring voltage 50VRms Maximum REN 3 Loop current 25mADC Signal levels according to ES 203-021 Line impedance according to ES 203-021

Supported terminals Jotron 5123, 5111, Gigaset 5020, Gigaset 5005, ResistTel Ex, FEP-2010



## 1.6 FXO BOARD

The FXO line board supplies 4 trunk lines of the POTS type, Plain Old Telephone Service. This interface is the opposite side of the FXS interface, and is typically used to connect to shore lines, mobile networks and satellite trunks.

On-Hook Leakage Current5uAMinimum line DC current10mAMaximum line DC current60mARinger equivalence number0.2Ring voltage frequency range13Hz-68HzSignal levels according to ES 203-021Line impedance according to ES 203-021

The FXO line is connected to terminal 4 and 5 on the RJ-45 jack

## 1.7 UPN BOARD

The UPN line board supports 4 lines of Jotron Digital Intercom (DICS) lines.

Line voltage +37VDC Line impedance 110 ohms

The UPN line is connected to terminal 4 and 5 on the RJ-45 jack The maximum recommended line length is 500m using 0.75 twisted pair ships cable. Parallel connection of terminals is not possible.

Supported Terminals DICS 6111, 6112, 6113, 6114, 6123 and 6124

#### 1.8 E&M BOARD

The E&M board is typically used to connect systems like PA/GA and VHF/UHF radio paging. It has two audio/key inputs and two audio/key output.

The audio inputs can be either line level or microphone level with AGC. The keying input accepts dry closing contacts. The audio output is line level with transformer isolation, they key output is a dry closing contact.

Output impedance	150ohms
Input impedance	4.7kohms
Nominal line level	0dBu
Maximum line level	+3.15dBu
Nominal mic level	-34dBu
Maximum mic level	-17dBu
AGC range	44dB





The inputs are connected to the upper row of RJ-45 jacks, the outputs to the lower. The keying input/output is connected to 3 and 6 on the RJ-45 jack. The audio line is connected to terminal 4 and 5.

3 — Key in (E) 4 — Audio in (T1) 5 — Audio in (R1) 6 — Ground (SG)



- 3 Key out (M)
- 4 Audio out (T)
- 5 Audio out (R)
- 6 Ground (SB)

## 1.9 6200 POWER TERMINAL MODULE

When the Phontech 6200 is installed in a cabinet, the 6200 power terminal module can be fitted, for easy termination of the required power supplies, as well as the power failure outputs. Power failure outputs are dry closing contacts, and are activated when the corresponding power supply fails. AC/DC version



AC/AC version







## **1.10 TECHNICAL DATA**

Supply voltages	Universal AC input (110-230VAC) DC input 24V nominal, 18VDC-72VDC
Maximum power	
consumption	65W
Size	445mm x 246mm x 44mm (w,d,h)
Weight	2.5kg
Capacity	24 physical lines, 48 registered SIP clients

## **2 INSTALLATION**

## **2.1 INSTALLATION GUIDE**

The installation should be planned in details before commencing. The cables should be listed in a cable plan, with number of pairs etc.

The location of each unit in the communication system should be planned to obtain maximum performance and user availability.

The locations of the intercom stations and telephones with regards to the operators must be taken especially into consideration.

Jotron strongly recommend the use of junction boxes for the external cable distribution.

#### 2.1.1 **CABLE TERMINATION**

First, ensure that the cable to be used is according to the Jotron specifications. See the CABLE REQUIREMENTS chapter in this document.

#### 2.1.2 **GLANDS**

The cables enter the WP units by means of cable glands. Where cable glands are not supplied from the factory, the installer must adapt the glands to the actual cable outer diameter. This is to obtain the specified ingress protection.



#### 2.1.3 PUNCH BLOCK TERMINALS

Be sure to use the correct tool (XXXXX) when terminating cables in the punch block terminals. Observe cable specifications.

#### 2.1.4 **FERRULING**

The conductors should be ferruled prior to termination when using cage clamp terminals

#### 2.1.5 MARKING

Each cable is to be marked with cable numbers.

Each conductor is to be marked with the specific termination numbers.

Please note that Jotron uses plug-able screw terminals in almost all units. This is to make the installation and service work as easy and durable as possible.

#### 2.1.6 **FASTENING**

Where applicable, the cables and the conductors shall be clamped to the structure with cable ties.

#### 2.1.7 **PRESERVATION**

Prior to, during, and after completion of the installation the equipment surfaces are to be protected against acid holding fluids, pollution, moist, impacts etc.

This is in order to avoid damaged equipment for which Jotron will claim void warranty.

#### 2.1.8 SCREEN CONNECTION

In order to obtain maximum performance after installation, it is necessary to terminate the cables and ground the screens in a good manner.

The cables are to be de-isolated by removing approximately 500 mm of the outer insulation.

Then the screen braid is cut off approximately 30 mm longer than the outer isolation.

The conductors are to be de-isolated and ferruled before they are inserted into the terminals. The outer screen is clamped to the cable fixing rails inside the cabinet. Cable ties of a conductive type (metal) are recommended for best result.

#### 2.1.9 **CABLE REQUIREMENTS**

All cables used with the DICS system must be of approved ship cable type.

The cables must be:

- Individually twisted pairs
- Recommended conductor size is 0.75 mm<sup>2</sup>
- All cabling in the 6200 must be a separate network.
- DO NOT COMBINE DIFFERENT SYSTEMS IN THE SAME CABLE. THIS IS TO

PREVENT DISTURBANCE AND NOISE CAUSED BY INTERFERENCE.

Between the exchange and intercom / telephones: 1 pair. If extra signal device / loudspeaker: 1 extra pair for 24 VDC (total 2 pairs)

Jotron AS| Phontech 6200: Installation manual → Installation



Power cables: 1 pair + Ground

#### 2.1.10 CABLE REQUIREMENTS FOR ETHERNET

The Ethernet cables must be of specification category 5e UTP or better. Jotron recommends using the TIA/EIA-568-B.1-2001 termination scheme. The maximum length of each segment must be less than 100m

#### 2.1.11 COMPLYING WITH IMO REQUIREMENTS

The Phontech 6200 system will comply with IMO requirements for two way voice communication systems only if the following is adhered to:

- Extensions located on the navigation bridge and ECR must have the "Priority access' checkbox checked. An alternative is for these extensions to be a member of a class where the 'Priority access" checkbox is checked. This will give these extensions the highest priority in the system.
- When telephones are mounted in close proximity on the above mentioned locations, the ring tones on adjacent telephones should be selected so that incoming calls are distinguishable. See the user manual for the respective telephones for information on how to achieve this.
- The Phontech 6200 system must be connected to both mains and emergency power. At least one of the power inputs must be connected to a power source capable of supplying the Phontech 6200 system during blackout.

#### 2.1.12 PHONTECH 6200 COMMISSIONING PROCEDURE

#### 2.1.13 COMMISSIONING TEST

The Phontech 6200 shall be configured according to the customer requirement.

Tests to be performed

- Handbook is delivered and available for commissioning
- Check the installation according to installation instructions
- Using the Amity configuration as reference, for each extension check:
- The installed terminal type
- The local extension name and number
- Class membership and priority service
- Group memberships
- If applicable, the hotline extensions
- If applicable, access control
- If applicable PA group memberships
- If applicable Auto answer

For trunk lines

Check trunk type



- Check prefix and DID
- Check access control and billing

#### 2.2 NETWORK RECOMMENDATIONS

#### 2.2.1 **OVERVIEW**

This section describes how the Phontech 6200 is designed to use an Ethernet network to communicate with other Phontech 6200 units, VoIP telephones and VoIP trunks, how to set up the Phontech 6200 system in a separate network - either physically or via *IEEE 802.1q* VLANs as supported by many modern switches - and some of the precautions that have to be taken into account when using *IEEE 802.3af-2003* Power over Ethernet for VoIP telephones.

#### 2.2.2 PHONTECH 6200 NETWORK CONFIGURATION

When setting up the 6200 units, one must first run through the "First Run Wizard" as described in Section 2.4.3. The number chosen for the 6200 unit here will determine a few things, among these the IP-address the 6200 unit will use. By default, all 6200 units will use the *172.16.0.0/16* network block, and the 6200 unit that has been set up as number 1 will always run a DHCP server which will serve addresses in the *172.16.1.0/24* block to clients. The number and IP address of an 6200 unit unit that has already been set up can be viewed via the front panel display as described in Section 2.4.4.5.1.





In the above example diagram, there are three 6200 units arranged in order, as well as several VoIP telephones which receive an IP address from 6200 unit number 1 via DHCP.

By default, each 6200 unit will route external traffic via *172.16.0.254*. Also by default, DNS requests will be sent to *172.16.0.254*. If an external VoIP trunk is required, please make sure that the router is correctly configured to route IP-traffic and to answer DNS requests.





We recommend installing the Phontech 6200 system in a physically separate network or in a separate *802.1q* VLAN.

#### 2.2.3 INSTALLING THE PHONTECH 6200 IN A SEPARATE NETWORK

Using a physically separate network is the simplest method of installing a Phontech 6200 system. It allows you to isolate the PBX from the rest of your network at the cost of separate infrastructure. This is typically the approach taken if there are few to none VoIP telephones or trunks in a Phontech 6200 system, as there is little need to share infrastructure in these cases.

Jotron AS| Phontech 6200: Installation manual → Installation







In the above example, three Phontech 6200 units are connected in a redundant ring while being separate from the main network. Please note that this also implies separate cabling for the VoIP telephones present.

#### 2.2.4 INSTALLING THE PHONTECH 6200 IN A SEPARATE 802.1Q VLAN

It is also possible to install the Phontech 6200 system in a network separated by using *802.1q* VLANs. This method allows you to share infrastructure and cabling that would otherwise have had to be duplicated. A VLAN is a virtual LAN that will in effect act as a completely separate network despite passing through the same infrastructure and possibly the same cabling; using a VLAN tag to define which network the traffic belongs to. It is possible to have up to 4096 different VLANs. Please note that in order to use VLANs, you need VLAN-capable infrastructure.

A common way to organize traffic into VLANs is to separate different independent services into separate VLANs.





In the example above, traffic is separated into a "Voice VLAN" (with an ID of 50) and a "Data VLAN" (with an ID of 60). The "Voice VLAN" is able to use the same infrastructure as the regular "Data VLAN" by configuring the switches to tag the traffic appropriately depending on the port it is plugged into. This may be configured by making sure that the port the VoIP telephone is placed on has ingress tag of 50 and the egress traffic is untagged. Similarly, a computer would have an ingress tag of 60 and the egress traffic is untagged.

It is also possible to allow several VLANs to share one port, by making sure that at least all but one of them is tagging egress traffic. In this approach, the end-point must be VLAN-aware in order to receive any of the tagged traffic. This could be used to share a port between a computer and a VoIP telephone.



VLAN 60 untagged

For more complex scenarios, please contact Jotron for a feasibility study.

#### 2.2.5 USING 802.3AF-2003 POE FOR VOIP TELEPHONES

Power over Ethernet ("PoE") allows units which supports it to replace the usual "wall wart" power supplies that are commonly used for most electrical products. To take advantage of this, a PoE-

Jotron AS| Phontech 6200: Installation manual → Installation



capable switch must be used, the end-point must support PoE and the length of the cabling between the two may not exceed 100 meters, as per *802.3af-2003*. If cable lengths greater than this is desired, please consider distributing one or more switches closer to the end-point, make use of a PoE-capable repeater or use a PoE-injector closer to the end-point. Switch 1



For PoE, we recommend category 5 cabling or better.



## 2.3 CONFIGURATION APPLICATION

#### 2.3.1 Prerequisites

#### 2.3.1.1 REQUIREMENTS

The Phontech 6200 Configuration Application requires the following:

- Windows XP SP3, Windows Vista SP1, Windows 7 or later.
- At least 1 GHz CPU speed.
- At least 512MiB of RAM.
- At least 500MiB of free disk space.
- 100 Mbit/s Wired Network Connection.

The recommended setup is:

- Windows 7 or later.
- 2Ghz dual-core CPU or better.
- 4GiB of RAM or better.
- 2GiB of free disk space or better.
- 100 Mbit/s Wired Network Connection.

#### 2.3.2 **INSTALLATION**

To install the application, run the supplied installer and follow the instructions given.



#### 2.3.3 STARTING THE APPLICATION

After installation, the application may be found in the "Start"-menu, under "Jotron AS/ICS6200 Configuration Application".



Figure 1 - Start Menu Entry



If you have installed a firewall, you may get a dialog asking you if the application should have access to the network. It is safe to answer "Yes" in this dialog. If you have Windows Vista or Windows 7, please allow the application access for "Home", "Work" and "Public" networks.

1	Windows Securi	ity Alert	
	💮 Windo	ws Firewal	l has blocked some features of this program
	Windows Firewall ha	as blocked som	e features of Amity on all public, private and domain networks.
		Name:	Amity
	NOTHER !!	Publisher:	Unknown
		Pat <u>h</u> :	C:\program files (x86)\jotron as\amity\amity.exe
	Allow Amity to com	nunicate on the	ese networks:
	Domain netw	orks, such as a	workplace network
	📝 P <u>r</u> ivate netw	orks, such as m	iy home or work network
			ose in airports and coffee shops (not recommended ten have little or no security)
	What are the risks of	of allowing a pr	ogram through a firewall?
			Allow access Cancel

Figure 2 - Firewall Settings

#### 2.3.4 COMMON TASKS

#### 2.3.4.1 CONNECTING TO A PHONTECH 6200 NETWORK

In order to connect to and configure a Phontech 6200 system, you must connect your computer to the Phontech 6200 network. Make sure that your computer is set up to automatically acquire network addresses, and connect your computer to one of the LAN ports on the front of the 6200. Alternatively, you may connect your computer to the switch used for VoIP telephony if applicable.



ntrol Panel  Network and Internet  Network and Sharing C	inter	✓
Local Area Connection Status Σ		Internet Protocol Version 4 (TCP/IPv4) Properties ? ×
General	Networking	General Alternate Configuration
Connection IPv4 Connectivity: No network access	Connect using:	You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
IPv6 Connectivity: No network access	Configure	
Media State: Enabled	This connection uses the following items:	Obtain an IP address automatically
Duration: 21:47:23	Client for Microsoft Networks	O Use the following IP address:
Speed: 100.0 Mbps	QoS Packet Scheduler	IP address:
Details	File and Printer Sharing for Microsoft Networks	Subnet mask:
	Internet Protocol Version 6 (TCP/IPv6)	Default gateway:
Activity	Internet Protocol Version 4 (TCP/IPv4)      Internet Protocol Version 4 (TCP/IPv4)      Link-Layer Topology Discovery Mapper I/O Driver      Link-Layer Topology Discovery Responder	Obtain DNS server address automatically
Sent — 🜉 — Received		Use the following DNS server addresses:
	Install Uninstall Properties	Preferred DNS server:
Bytes: 4 361 127 76 693 507	Description Transmission Control Protocol/Internet Protocol. The default	Alternate DNS server:
Properties Sisable Diagnose	wide area network protocol that provides communication across diverse interconnected networks.	Validate settings upon exit Advanced
Close	OK Cancel	OK Cancel

Figure 3 - DHCP Settings

Verify that your computer is connected to the Phontech 6200 network by checking that it has set an IP-address. Note that the IP-address shown here is in the 172.16.1.0/24 range.

Control Panel > Network and Internet > Network Connections >	✓ 4 Search Network	Connections
Organize          Disable this network device         Diagnose this connection         Rename this con           Local Area Connection         Unidentified network         Intel(R) 82566         Local Area Connection Status         SS	nnection View status of this connection Change settings of this connection           Network Connection Details	u≓ ▼
General Connection Pv4 Connectivity: No network access Pv6 Connectivity: No network access Meda State: Enabled Duration: 21:52:06 Speed: 100.0 Mbps Details Activity Sent Keivity Sent Received Bytes: 4 361 127 76 693 507 Received Bytes: Close Close	Network Connection Details:         Property       Value         Connection specific DN         Description       Intel(R) 82565DM-2 Gigabit Network (         Physical Address       00-21-98-70-77-A2         DHCP Enabled       Yes         IPv4 Address       172-16.1.1         IPv4 Subnet Mask       255.255.0.0         Lease Obtained       8 januar 2013 12:33.59         IEv4 Address       172.16.0.254         IPv4 VDefault Gateway       172.16.0.1         IPv4 Address Server       180:2597.5573.7d3a.7d3d%10         IPv6 DNS Servers       Fe0:2597.5573.7d3a.7d3d%10         IPv6 DNS Servers       Fe0:0.00ffffi:1%1         IPv6 DNS Servers       Fe0:0.00fffi:1%1         IPv6 DNS Servers       Fe0:0.00fffi:1%1	

Figure 4 - IP Address

If you are running Windows Vista or Windows 7, you may receive a dialog asking you what kind of network you have connected to. Please select either "Home Network" or "Work Network" if prompted, as this will affect firewall settings. In the case where the 6200 network is automatically configured as a "Public Network", make sure that the firewall settings are as described in section 2.3.3.

This can be checked by running "ipconfig" in a command window. "Start -> Run -> cmd -> ipconfig".



#### 2.3.4.2 MAKING CHANGES AND SAVING THEM

When making changes to the configuration in the configuration application, it is important to note that the changes are not applied to the Phontech 6200 system until you choose to send them. Sending your changes can be done via the toolbar, or via "File -> Send".

Camity	Control Total & Network and Total Control in a	
<u>File Edit U</u> sers <u>C</u> lasses <u>G</u> roups <u>T</u> runk Line	s <u>V</u> iew <u>T</u> ools <u>H</u> elp	
🖥 🕞 🔚 🔚 📑 🖶 🎿 🍰	8 6( 6) 6) 🖉 📾 🗽 🗳 🗢 🎧 🐥 😚 🖘 🗃	
<ul> <li>▶ 2 Classes</li> <li>2 Users</li> <li>■ Groups</li> <li>Trunk Lines</li> </ul>	Add User Add a user to your ICS 6200 system. Add a call group to your ICS call multiple users at the same	6200 system allowing you to ne time with one number.
€ Extensions	Add Multiple Users Add multiple users to your ICS 6200 system in one step. Add a call hunting group to you to call users in a success the phone.	up your ICS 6200 system allowing sive order until one picks up
	Add Classes Add Classes to your ICS 6200 system to easily control the permissions and features of a group of users.	ICS 6200 allowing you to page I phones.
Filter Type Any	Add Trunk Line Add a trunk line to connect your ICS 6200 system to an external system.	CS 6200 system allowing you events happen.
	Send Configuration Sends the current configuration to the ICS6200 network.	rk ation of the ICS6200 network.

Figure 5 - Send Configuration







The configuration can also be saved to disk using the regular "Save" or "Save as..." commands. Note that this does not imply the "Send" operation - this must be performed separately.



Figure 7 - Save Configuration

Please note that if you have just set up users on a new Phontech 6200 Unit or a unit that you have just installed new line interface boards on, the configuration application will have to perform some more intrusive set up procedures, which will cause any ongoing calls on the unit to be terminated. A pop-up dialog box will warn you of this before performing this action.

ICS A	nalog Lines Restart Required			
<u> </u>	One or more of the ICS 6200 units requires a restart of analog lines for the changes to be applied. This will cut off any ongoing calls from or to analog lines on this unit. Do you want to continue?			
	Yes No			

Figure 8 - Required Restart of Analogue Lines

#### 2.3.4.3 FIRST STEPS

Upon successfully connecting to a Phontech 6200 and starting the configuration application, it will automatically discover all 6200 units in the network and download the current configuration. If the system is newly installed (that is, having just completed the "First Run"-wizard as described in the installation guide), an empty configuration is in effect.



#### 2.3.4.4 ADDING USERS

To add users to the system, please use the Add Multiple Users Wizard. It can be started from the start view or from the menu bar under "Users".



Figure 9 - Add Users

Once you have started the wizard, you will be greeted by an introduction describing the wizard you have just started. Continue the wizard by clicking the 'Next'-button. This will lead you to the page were you enter the details for the new users.





Amity File Edit Users Classes Groups Trunk Lir	aa Waxa Taala Ula					
			) 🔆 😪 🗳 🕶 🚹 🏹	♣ 🛟 ←		
	Add Users Wiza					
Groups Trunk Lines F Extensions	2/5	Input the users you Add 1	want to add below.			
		Extension	Name		lass membership Provisioni N/A 🔹	ng MAC Addr.
		105 🗢	Tashtego	SIP 🔻	N/A 🔻	٢
		106	Daggoo	Snom 300 💌 🖡	N/A	7A9D 1
Filer Type Any   ICS #1 (PBX, 172.16.0.1)  ICS #4 (Storage, 172.16.0.4)						
© C 🔉 •••×	Help				< Back	Next > Cancel

Figure 10 - Add Users: Extension, Name, Types and Class membership

When you create new users you have to enter the extension number, user name and the interface in use by this user. The extension number is the number to call if anyone wants to reach this user. The user name is used as a description in the configuration application and will be displayed as the caller ID if the dialed phone supports a character display. The interface decides how the phone is connected physically and which features the user supports. The different interface alternatives are:

- **Analog (FXS):** The "regular" station interface. Requires an unused port on a FXS line interface. Please note that Analog telephones do not support paging or alert groups.
- **Digital (UpN):** The Jotron proprietary digital interface. Requires an unused port on an UpN line interface.
- Snom 300: The Snom 300 brand VoIP telephone. Allows you to enter a provisioning MAC address which will be used to automatically configure the telephone. Requires an unused VoIP license.
- **SIP:** A generic SIP account which may be used for other VoIP phones. Requires an unused SIP license.

It is possible, but optional to assign the new user to one or more classes. These can be useful in segmenting access to different kinds of features to different sets of users. Classes will be discussed in "Managing Users with Classes".

One or more rows may be added by clicking the green plus icon. The number of rows added is determined by the number entered in the input next to the icon. Each new row is automatically assigned a new extension number based on the previous row and will inherit the user type and class membership of the previous row by default.



Given that one or more of the new users are of the FXS or UpN type, you must now choose which ports to use. You will be presented with a visual representation of the Phontech 6200 system, where you can pick the desired port on the desired unit. The ports to select are determined by the type of users you have created. You will be presented with a view of the system once for each technology that uses the physical ports. The current interface is described in the upper left corner of the page. The right side of the page lists the users that are to be placed in the system. A blue text means that this is the user that will be placed with the next click. A gray name means that this user has already been placed and a black name signals that this user has not been placed yet. Numbers will be displayed on the visual representation to indicate which user has been selected for any placed port.

Amity - New configuration							
Eile Edit Users Classes Groups IrunkLines View Tools Help							
₀ 🖕 🔚 🖾 😤 🚓 🐻 б√ б୬ б୬ 🖑 🏯 📖 🖕 🦑 🐥 😪 📭 👔 🍼 🞧 🏹 🐥 🛟 < >> 🔚							
	Add Users Wizard	I					
Classes	Please place the ana	og ports					
2 Users							
Groups Groups		Please select the ports you want for the users you have entered, or select the auto populate button.					
Trunk Lines Extensions			Users to place				
	3/3		1 - 101, Starbuck				
			2 - 102, Stubb 3 - 103, Flask				
			5 - 105, Fidsk				
		2 4 6 8 10 12 14 16 18 20 22 24					
		Port = Port = Por					
	]						
Filter Type Any 💌	]						
ICS #1 (PBX, 172.16.0.1)							
ICS #4 (Storage, 172.16.0.4)							
		Auto Populate					
	Help		< Back Finish Cancel				

Figure 11 - Add Users: Port Placement Page

When placing multiple users, the "Auto Populate" function can be a timesaver. This will automatically pick unused ports for you in a sequential fashion.

If one or more of the new users are of a Snom 300 variant, you must enter the provisioning MAC address of the handset. This allows the Phontech 6200 system to automatically provision the configuration to the handset once it is connected.

If you have exceeded all the available licenses for SIP and Snom 300 users you will be notified in the bottom of the wizard page and you will not be able to add the users. To add more users of this type, please see the licenses section of this manual.



➡ Amity <u>File <u>E</u>dit <u>U</u>sers <u>C</u>lasses <u>G</u>roups <u>T</u>runk L</u>						
	Add Users Wizan	d nation for all users bel Input the users you v	ow.	﴾ 8 ←		
Filter Type Any Type Any Type ICS #1 (PBX, 172.16.0.1) CS #4 (Storage, 172.16.0.4)		104 -	Name Queequeg Tashtego Daggoo	Digital V N	ass membership Provisioning MAC Ad	d. O
	Help				<pre>Back Next &gt;</pre>	Cancel

Figure 12 - Add Users: Adding SIP and Snom 300 Users

Additionally, if one or more of the new users are of a Snom 300 or SIP type, one may select which 6200 unit they shall be registered on. The configuration application will automatically select this, based on how many VoIP phones are registered on each unit already, but this can be changed here.

Amity			
Eile Edit Users Classes Groups Irunk L		; 🖿 ; ∂ * @ ≄ ∞ 🚹 🗹 & 8} ↔ >	
▷ 🙊 Classes	Add Users Wizard	red servers for the SIP accounts.	
<ul> <li>Users</li> <li>Groups</li> <li>Trunk Lines</li> <li>Extensions</li> </ul>	3/4	Select the servers you want to register the SIP accounts on.	
	3/4	Extension, User 105, Tashtego	SIP Server         Apply To All           ICS #1 (172.16.0.1) ▼         ✓
		106, Daggoo	ICS #1 (172.16.0.1)
Filter Type Any			
ICS #4 (Storage, 172.16.0.4)			
	Help		< Back Next > Cancel

Figure 13 - Add Users: Registration Info for SIP and Snom 300

Jotron AS| Phontech 6200: Installation manual → Installation


# 2.3.4.5 MANAGING USERS WITH CLASSES

A class is a collection or set of users that may share some properties. It is an optional feature that may be used to simplify certain parts of the configuration of large systems.



Figure 14 - Adding Classes

Consider a system where a subset of users - let us call them "Officers" - have access to a number of features - such as paging groups, dialing out over a trunk interface or high priority access to certain users. If we were to add or remove users from this set of Officers, we would have to manually change or update the permissions of each of these features - a process which may be error prone or easy to forget. This may be simplified by creating an "Officer"-class, which holds all of the relevant users. This class would be the only member which had access to the features in question, and the issue of adding or removing users from having access to these features is now simply a case of adding or removing users from this class.

By default, the system contains one predefined class, which holds all users.



To add classes, please use the "Add Classes Wizard".

C Amity		
<u>F</u> ile <u>E</u> dit <u>U</u> sers <u>C</u> lasses <u>G</u> roups <u>T</u> runk Lines <u>V</u> i		
🛛 🕞 🔚 🖾 📑 🖶 🛃 🥵 🤅	🕺 🚱 🚯 🦊 📖 🗽 🗳 🕶 🎧 🐁 🛟 🛹 🍉 🧱	
Α	dd Classes Wizard	
▲ 😩 Classes	Please enter the dass names of all the dasses you would like to add.	
All Users 15 users(s)		
4 🙎 Users	Input the users you want to add below	
2 100 Captain Ahab 2 101 Starbuck		
🙎 102 Stubb	2/2 Class Name Officers	
2 103 Flask =	Class Name Harpooners	
2014 Queequeg 2015 Tashtego		
💁 106 Daggoo	Class Name Crew	
🔓 107 Fedallah 💂 108 Pip		
2 108 Pip 2 109 Dough Boy		
2 110 Ishmael		
2 111 Fleece 2 112 Perth		
2 112 Petri		
114 Bildad		
Filter Type Any -		
ICS #1 (172.16.0.1)		
	Help < Back Finish	Cancel

Figure 15 - Adding Classes



To assign class membership to users, you may use the "User Properties" or "Class Properties" dialogs for existing users, or select the desired class when adding new users.



Figure 16 - Adding Members to a Class Using "Class Properties"



🔵 Amity - Captain A							
			View Tools Help	i 📾 🔒 🚅 🔍	• 🔒 👫 🚹		
<ul> <li>Classes         All Users         Crew         Harpooner.         Officers         2 100         101         102         102         103         104         105         107         108         107         108         109         110         Tilter     </li> </ul>	4 users(s) Captain Ahab Starbuck Stubb Flask Queequeg Tashtego Daggoo Fedallah Pip Dough Boy Ishmael Fleece Type Any		Basic Information         A Class is a coller         Available         Crew         Harpooners	Physical Ports Classes	e rights.	Access Member of All Users Officers Add move	
0C		×	Reset				Save Discard Help

Figure 17 - Assigning Class Membership in the "User Properties" Window

# 2.3.4.6 ADDING A GROUP

Groups provide different functionality on a set of users that are members of the group. The functionality differs on the type of group:

- **Call Group:** When the group extension is dialed, the group will call all of its members simultaneously. The member to first pick up the phone will receive the call.
- **Call Hunting Group:** When the group extension is dialed, the group will dial all of its members sequentially in a pre-defined order. The first member who picks up the phone will receive the call.
- **Paging Group:** When the group extension is dialed, the call will be automatically paged out on the speakers of the members of the group. This requires paging support on the phones that are members of the group.
- **Alert Group:** The alert group allows a sound to be played on the speaker of the members of the group, based on an external input. This requires an unused E&M input port, as well as paging support on the phones that are members of the group.



To add a group, start the relevant group type wizard.

C Amity		
File Edit Users Classes Groups Trunk Lines		
o 🖕 🔚 🔚 📑 🖶 🎿 🍰 ð	5 6( 6) 6) 🛃 📖 🛸	<b>≩ ◯ []</b> & # + = =
	Add Alert Group	
▲ 🖄 Classes	Please enter a name and a description f	for this group.
All Users 15 users(s)		
Crew 7 users(s) Harpooners 4 users(s)	Group name	Crew Alert Group
Officers 4 users(s)	2/5 Group description	
2 100 Captain Ahab 2 101 Starbuck		
🙎 102 Stubb		
🙎 103 Flask 🤱 104 Queequeg		
💂 105 Tashtego		
🔒 107 Fedallah		
2 108 Pip 2 109 Dough Boy		
2 110 Ishmael		
Filter Type Any		
CS #1 (172.16.0.1)		
C3 =1 (1/2.10.0.1)		
	Help	< Back Next > Cancel

Figure 18 - Adding an Alert Group

The first step is to enter a name and optionally a description for the group. Unless the group is an Alert group, you will also have to enter an extension for the group. If the group is an Alert group, we will have to select an unused E&M pair to be used as the source of the alert.



Amity	
Eile Edit Users Classes Groups Irunk Lines	<u>View</u> Iools <u>H</u> elp ({ (\$ (\$ (\$ (\$ (\$ (\$ (\$ (\$ (\$ (\$ (\$ (\$ (\$
Classes         All Users       15 users(s)         Crew       7 users(s)         Harpooners       4 users(s)         Officers       4 users(s)         2       100         Captain Ahab       101         Starbuck       102         2       100         Captain Ahab       101         Starbuck       102         2       103         104       Queequeg         3       106         2       108         109       Dough Boy         2       110         S       111         Fleece       *	3/5
	Help <a> Kext &gt; Cancel</a>

Figure 19 - Selecting the Input for the Alert Group

We will then select the members of the group. You may select classes, individual users and, in some cases, even other groups. If the group you are adding requires paging functionality, only uses which support this is listed.





Figure 20 - Adding members to the Alert Group. Note that only users which support paging are listed

Please note that the order of the members is significant in the Call Hunting group, and may be adjusted using the arrow buttons. For all other groups, the order of the members is insignificant.





Figure 21 - Arranging members in a Hunting Group

Once the members have been added, all we need to do is verify that the information we entered is correct.



Amity		
File Edit Users Classes Groups Irunk	Lines View Iools Help	& \$ ← ▶ ≡
Classes     All Users 15 users(s)     Crew 7 users(s)     Harpooners 4 users(s)     Officers 4 users(s)     Users     Users     Uo Captain Ahab     101 Starbuck     102 Stubb     103 Flask     104 Queequeg     03 Flask     104 Queequeg     05 Tashtego     05 Tashtego     07 Fedallah     08 Pip     109 Dough Boy     101 Ishmael	Add Call Group Verify that the group information below is correct.	Officers Call Group 115
<sup>1</sup> 11 Fleece          Filter          Type         Any         ICS #1 (172.16.0.1)	Is this information correct?	< Back Finish Cancel

Figure 22 - Verifying a new Call Group

# 2.3.4.7 ADDING A TRUNK LINE

A Trunk Line allows you to connect your Phontech 6200 system to another PBX or the public telephone system. Different methods may be used to dial out over the trunk or receive calls from the trunk.

The different types of trunks provided are:

- SIP client: A 6200 unit will register with a remote SIP server and route calls to and from this server. Requires an unused SIP license.
- SIP server: A 6200 unit will act as a SIP server for a remote client, and route calls to and from this client. Requires an unused SIP license.
- FXO: Allows you to connect the Phontech 6200 system to an FXS interface of a remote PBX or what is commonly called PSTN. Requires one or more unused FXO ports.
- E&M Allows you to connect the Phontech 6200 system to an external system providing key and audio signals. For example, a PAGA system. Requires an unused input/output pair on an E&M module.

To add a Trunk Line, start the "Add Trunk Line Wizard". The first step is to enter a name and optionally a description for the new Trunk Line. Once this has been completed, we will have to select the type of trunk as described above.



C Amity		
<u>File E</u> dit <u>U</u> sers <u>C</u> lasses <u>G</u> roups <u>T</u> runk Lir		
🗗 🏣 🔚 🖪 📑 🖶 🎿 🎥 (	8 6( 6) 4) 2 📖 🛸 🖘 🚹	
	Add Trunk Line	
▲ 🚉 Classes	Please enter a name and a description for this trunk line.	
All Users 15 users(s) Crew 7 users(s)		
Harpooners 4 users(s) Officers 4 users(s)	Please enter a name and a descript	tion for this trunk line
🔺 🙎 Users 😑	2/9	
2 100 Captain Ahab 2 101 Starbuck	Name Nantucket Trunk	
2 102 Stubb 2 103 Flask	Description	
💄 104 Queequeg 🧙 105 Tashtego		
🔓 106 Daggoo 🎭 107 Fedallah		
2 108 Pip		
2 109 Dough Boy 2 110 Ishmael		
Filter Type Any		
ICS #1 (172.16.0.1)		
- ICS #1 (1/2.10.0.1)		
🔁 C 🛛 🔍 🗙	Help	< Back Next > Cancel
igure 23 - Adding a Trunk I	20	i.
- Figure 23 - Adding a Trunk L ⊜ Amity	ne	
Amity <u>File Edit Users Classes Groups Trunk Lin</u>	es <u>V</u> iew <u>T</u> ools <u>H</u> elp	
Amity <u>File Edit Users Classes Groups Trunk Lin</u>		
Amity Ele Edit Users Classes Groups Trunk Lit	es Yiew Iools Help 🕏 64, 69, 69) 👯 📖 🗽 🚅 🖘 🎧	
Amity     File Edit Users Classes Groups Irunk Lir	es <u>V</u> iew <u>T</u> ools <u>H</u> elp	
Amity Eile Edit Users Classes Groups Irunk Lir Classes All Users 15 users(s)	es Yiew Jools Help 8 6 ( 6) () () () () () () () () () () () () ()	
Amity     File Edit Users Classes Groups Irunk Lin     Classes     All Users 15 users(s)     Crew 7 users(s)     Harpooners 4 users(s)	es Yiew Tools Help Source of the first select the type of trunk line Please select the type of trunk line	# ◆ ◆ #
Amity Ele Edit Users Classes Groups Trunk Lin Classes All Users 15 users(s) Crew 7 users(s) Harpooners 4 users(s) Officers 4 users(s) I Surers (s) Users	es View Tools Help	# ◆ ◆ #
Amity File Edit Users Classes Groups Trunk Lin     Classes     Classes     All Users 15 users(s)     Crew 7 users(s)     Harpooners 4 users(s)     Officers 4 users(s)     Officers 4 users(s)     Officers 4 users(s)	es Yiew Tools Help Add Trunk Line Please select the trunk line type. Please select the type of trunk line SIP Client	# ◆ ◆ #
Amity Ele Edit Users Classes Groups Trunk Lit     Edit Users 15 users(s) Crew 7 users(s) Harponers 4 users(s) Officers 4 users(s) Officers 4 users(s) 2 Users 2 100 Captain Ahab 2 101 Starbuck 2 102 Stubb	Yiew Jools Help     SIP Clent     SIP Clent     SIP Server	# ◆ ◆ #
Amity File Edit Users Classes Groups Trunk Lin     Classes     Classes     All Users 15 users(s)     Crew 7 users(s)     Harpooners 4 users(s)     Officers 4 users(s)     Officers 4 users(s)     Officers 4 users(s)     Users     Q 100 Captain Ahab     Q 101 Starbuck     Q 102 Stubb     Q 103 Flask     Q 104 Queequeg	s View Jools Help Add Trunk Line Please select the trunk line type. 3/9 Please select the type of trunk line SIP Clent SIP Server © FXC	# ◆ ◆ #
Amity File Edit Users Classes Groups Trunk Lin Classes All Users 15 users(s) Crew 7 users(s) Harpooners 4 users(s) Officers 4 users(s) Officers 4 users(s) Crew 7 users(s) Harpooners 4 users(s) Officers 4 users(s) Comparison of the term of the term of the term of term	s View Jools Help Add Trunk Line Please select the trunk line type. 3/9 Please select the type of trunk line SIP Clent SIP Server © FXC	# ◆ ◆ #
Amity File Edit Users Classes Groups Trunk Lin     Classes     Classes     All Users 15 users(s)     Crew 7 users(s)     All Users 4 users(s)     Officers 4 users(s)     Officers 4 users(s)     Officers 4 users(s)     2 100 Captain Ahab     2 101 Starbuck     2 102 Stubb     2 103 Flask     2 104 Queequeg     3, 105 Tashtego     3, 106 Daggoo     3, 107 Fedallah	s View Jools Help Add Trunk Line Please select the trunk line type. 3/9 Please select the type of trunk line SIP Clent SIP Server © FXC	# ◆ ◆ #
Amity Ele Edit Users Classes Groups Trunk Lin Classes All Users 15 users(s) Crew 7 users(s) Harpooners 4 users(s) Officers 4 users(s) Officers 4 users(s) 2 Users 2 U	s View Jools Help Add Trunk Line Please select the trunk line type. 3/9 Please select the type of trunk line SIP Clent SIP Server © FXC	# ◆ ◆ #
Amity File Edit Users Classes Groups Trunk Lin     Classes     All Users 15 users(s)     Crew 7 users(s)     All Users 4 users(s)     Officers 4 users(s)     Officers 4 users(s)     Officers 4 users(s)     101 Starbuck     102 Stubb     103 Flask     104 Queequeg     J. 105 Tashtego     J. 106 Daggoo     J. 107 Fedallah     108 Pip     109 Dough Boy     110 Ishmael     111 Fleece	s View Jools Help Add Trunk Line Please select the trunk line type. 3/9 Please select the type of trunk line SIP Clent SIP Server © FXC	# ◆ ◆ #
Amity     Elle Edit Users Classes Groups Irunk Lin     Amity     Elle Edit Users Classes Groups Irunk Lin     Classes     All Users 15 users(s)     Crew 7 users(s)     Harpooners 4 users(s)     Officers 4 users(s)     Officers 4 users(s)     Officers 4 users(s)     Users     Queequeg     101 Starbuck     Queequeg     Quo Stabb     Quo Stabb     Quo Stabb     Queequeg     Quo Stabb     Quo Stabb     Quo Stabb     Queequeg     Quo Stabb     Quo Stabb     Queequeg     Quo Stabb     Quo Stabbo	s View Jools Help Add Trunk Line Please select the trunk line type. 3/9 Please select the type of trunk line SIP Clent SIP Server © FXC	# ◆ ◆ #
Amity File Edit Users Classes Groups Trunk Lin     Classes     All Users 15 users(s)     Crew 7 users(s)     All Users 4 users(s)     Officers 4 users(s)     Officers 4 users(s)     Officers 4 users(s)     101 Starbuck     102 Stubb     103 Flask     104 Queequeg     J. 105 Tashtego     J. 106 Daggoo     J. 107 Fedallah     108 Pip     109 Dough Boy     110 Ishmael     111 Fleece	s View Jools Help Add Trunk Line Please select the trunk line type. 3/9 Please select the type of trunk line SIP Clent SIP Server © FXC	# ◆ ◆ #
Amity     Elle Edit Users Classes Groups Irunk Lin     Amity     Elle Edit Users Classes Groups Irunk Lin     Classes     All Users 15 users(s)     Crew 7 users(s)     Harpooners 4 users(s)     Officers 4 users(s)     Officers 4 users(s)     Officers 4 users(s)     Users     Queequeg     101 Starbuck     Queequeg     Quo Stabb     Quo Stabb     Quo Stabb     Queequeg     Quo Stabb     Quo Stabb     Queequeg     Quo Stabb     Quo Stabb     Quo Stabb     Queequeg     Quo Stabb     Quo Stabb     Quo Stabb     Queequeg     Quo Stabb     Quo Stabb     Queequeg     Quo Stabb     Quo Stabb     Quo Stabb     Queequeg     Quo Stabb     Quo Stabbo	s View Jools Help Add Trunk Line Please select the trunk line type. 3/9 Please select the type of trunk line SIP Clent SIP Server © FXC	
Amity     Elle Edit Users Classes Groups Irunk Lin     Amity     Elle Edit Users Classes Groups Irunk Lin     Classes     All Users 15 users(s)     Crew 7 users(s)     Harpooners 4 users(s)     Officers 4 users(s)     Officers 4 users(s)     Officers 4 users(s)     Users     Queequeg     101 Starbuck     Queequeg     Quo Stabb     Quo Stabb     Quo Stabb     Queequeg     Quo Stabb     Quo Stabb     Queequeg     Quo Stabb     Quo Stabb     Quo Stabb     Queequeg     Quo Stabb     Quo Stabb     Quo Stabb     Queequeg     Quo Stabb     Quo Stabb     Queequeg     Quo Stabb     Quo Stabb     Quo Stabb     Queequeg     Quo Stabb     Quo Stabbo	s View Jools Help Add Trunk Line Please select the trunk line type. 3/9 Please select the type of trunk line SIP Clent SIP Server © FXC	
Amity     Elle Edit Users Classes Groups Irunk Lin     Amity     Elle Edit Users Classes Groups Irunk Lin     Classes     All Users 15 users(s)     Crew 7 users(s)     Harpooners 4 users(s)     Officers 4 users(s)     Officers 4 users(s)     Officers 4 users(s)     Users     Queequeg     101 Starbuck     Queequeg     Quo Stabb     Quo Stabb     Quo Stabb     Queequeg     Quo Stabb     Quo Stabb     Queequeg     Quo Stabb     Quo Stabb     Quo Stabb     Queequeg     Quo Stabb     Quo Stabb     Quo Stabb     Queequeg     Quo Stabb     Quo Stabb     Queequeg     Quo Stabb     Quo Stabb     Quo Stabb     Queequeg     Quo Stabb     Quo Stabbo	s View Jools Help Add Trunk Line Please select the trunk line type. 3/9 Please select the type of trunk line SIP Clent SIP Server © FXC	
Amity     Elle Edit Users Classes Groups Irunk Lin     Amity     Elle Edit Users Classes Groups Irunk Lin     Classes     All Users 15 users(s)     Crew 7 users(s)     Harpooners 4 users(s)     Officers 4 users(s)     Officers 4 users(s)     Officers 4 users(s)     Users     Queequeg     101 Starbuck     Queequeg     Quo Stabb     Quo Stabb     Quo Stabb     Queequeg     Quo Stabb     Quo Stabb     Queequeg     Quo Stabb     Quo Stabb     Quo Stabb     Queequeg     Quo Stabb     Quo Stabb     Quo Stabb     Queequeg     Quo Stabb     Quo Stabb     Queequeg     Quo Stabb     Quo Stabb     Quo Stabb     Queequeg     Quo Stabb     Quo Stabbo	s View Jools Help Add Trunk Line Please select the trunk line type. 3/9 Please select the type of trunk line SIP Clent SIP Server © FXC	
Amity     Elle Edit Users Classes Groups Irunk Lin     Amity     Elle Edit Users Classes Groups Irunk Lin     Classes     All Users 15 users(s)     Crew 7 users(s)     Harpooners 4 users(s)     Officers 4 users(s)     Officers 4 users(s)     Officers 4 users(s)     Users     Queequeg     101 Starbuck     Queequeg     Quo Stabb     Quo Stabb     Quo Stabb     Queequeg     Quo Stabb     Quo Stabb     Queequeg     Quo Stabb     Quo Stabb     Quo Stabb     Queequeg     Quo Stabb     Quo Stabb     Quo Stabb     Queequeg     Quo Stabb     Quo Stabb     Queequeg     Quo Stabb     Quo Stabb     Quo Stabb     Queequeg     Quo Stabb     Quo Stabbo	s View Jools Help Add Trunk Line Please select the trunk line type. 3/9 Please select the type of trunk line SIP Clent SIP Server © FXC	
Amity     Ele Edit Users Classes Groups Irunk Lin     Amity     Ele Edit Users (15 users(s)     Amity     Classes     All Users 15 users(s)     Crew 7 users(s)     Harpooners 4 users(s)     Officers 4 users(s)     Officers 4 users(s)     Users     Quest     Que	s View Jools Help Add Trunk Line Please select the trunk line type. 3/9 SIP Clent SIP Server Please select the type of trunk line SIP Server Select the type of trunk line SIP Server Select the type of trunk line Select the type of trunk line	you would like to add
Amity     Ele Edit Users Classes Groups Irunk Lin     Amity     Ele Edit Users (15 users(s)     Amity     Classes     All Users 15 users(s)     Crew 7 users(s)     Harpooners 4 users(s)     Officers 4 users(s)     Officers 4 users(s)     Users     Q 100 Captain Ahab     101 Starbuck     Q 102 Stubb     Q 103 Flask     Q 104 Queequeg     Q 105 Tashtego     Q 106 Daggoo     Q 107 Fedallah     Q 108 Pip     Q 109 Dough Boy     Q 110 Ishmael     Q 111 Fleece Filter Filter ICS #1 (172.16.0.1)	s View Jools Help Add Trunk Line Please select the trunk line type. 3/9 Please select the type of trunk line SIP Clent SIP Server © FXC	





If the trunk type is SIP client, you will have to enter the IP-address or hostname of the provider, as well as the username, password and realm as supplied by your provider. The 6200 drop down defines which 6200 unit in the network the Trunk Line shall be added to.

The "Behind NAT" checkbox should be checked if the 6200 unit the trunk is added to is behind a network address translation layer and must traverse this in order to reach the server. If in doubt, leave this checked. If the remote server uses multiple IP-addresses to initiate calls to the 6200 due to load balancing, it is possible to resolve all the hostname addresses using the next checkbox. Please note that if your provider changes their IP-addresses, you must re-send your configuration to the 6200 network in order to regenerate the trunk settings. If in doubt, leave this unchecked.

If the trunk type is a SIP server, you must define the user name, password and realm you have or will use on the remote SIP client. You must also select which 6200 unit the client will be registered on.

If the trunk type is FXO or E&M, you have to select which port(s) to use. You can optionally select multiple FXO ports for load balancing.



Figure 25 - Selecting an FXO Port

The next step is to select what action to take when an incoming call is detected. The Phontech 6200 can call one or more extensions directly by selecting "Call an extension", give a switchboard-like greeting by selecting "Switchboard" or use the supplied number to directly call the intended recipient using "Direct Inward Dialing". Alternatively, incoming calls may be disabled.

Selecting the "Park incoming calls" option when "Call an extension" is selected will change the behavior of how the incoming call is dealt with. First a preconfigured phone will ring and answer the incoming call. As the call is answered, the system will notify the one who answered the call that a parking number has been allocated for the caller. Once the one who answered the call hangs up, the



caller will be placed in the parking slot announced and another user can dial the configured retrieval extension and enter the parking room number to retrieve the call. This extension number is configured in the Phontech 6200 System Settings and if it is already configured it will be displayed below the checkbox for the parking option. This option can also be changed from the "Incoming Call Actions" tab in the Trunk Line properties screen.

Amity		- • ×
File Edit Users Classes Groups Trunk Lines	<u>V</u> iew <u>T</u> ools <u>H</u> elp	
- , 늘 🖬 🖪 📑 🛖 🛃 🏶	6(6) 🕼 👯 📪 🗽 😂 🗢 🎧 🚷 🚸 🔶 🚍	
0 🗁 🔚 🔚 🖅 🐨 🕰 🏕 🦝		
•	Add Trunk Line	
4 🚔 Classes	Please choose the action to take when an incoming call is coming over this trunk line.	
All Users 15 users(s)		
Crew 7 users(s)	Please select the desired action when an incoming call is arriving.	
Harpooners 4 users(s) Officers 4 users(s)	Call an extension	
▲ 2 Users =	5/9 Switchboard	
🙎 100 Captain Ahab	Direct Inward Dialing	
2 101 Starbuck	<ul> <li>Disable incoming calls</li> </ul>	
2 102 Stubb 2 103 Flask		
2 105 Flask		
2 105 Tashtego		
💁 106 Daggoo		
💁 107 Fedallah		
2 108 Pip 2 109 Dough Boy		
2 109 Dough Boy 110 Ishmael		
2 111 Fleece		
Filter Type Any 🔻		
ICS #1 (172.16.0.1)		
	Help < Back Next	> Cancel

Figure 26 - Selecting which action to take upon incoming calls

Note that the Direct Inward Dialing option is only available for SIP trunk lines.

Unless incoming calls are disabled, you must select which users and/or groups should be reachable through this trunk. Users or groups who are not selected in this step may not be called from the trunk, regardless of the selected incoming call action.



Amity					-	
File Edit Users Classes Groups Trunk Ling	nos View Tools Help					
👵 🏣 🔚 🚝 💌 🛖 🎿 🍰	🐯 6(, 67) 🗐 💏	ं 🌆 🎲 🚟 🤤	D 🚺 橼 🔂 🔫			
	]					
A	Add Trunk Line					
4 🕿 Classes	Select the receivers of	incoming calls for this tru	ink line.			
All Users 15 users(s)						
Crew 7 users(s)		elect the extensions that	should be reachable from the	switchboard		
Harpooners 4 users(s) Officers 4 users(s)		elect the extensions that	should be reachable from the	- switchboard.		
✓ Q Users	6/9	Available			Selected	
🔦 100 Captain Ahab 👘		4 🚊 Classes			Classes	
2 101 Starbuck		All Users Crew	15 users(s) 7 users(s)		Harpooners 4 Officers 4	
2 102 Stubb 2 103 Flask		⊿ 2 Users	/ users(s)		Unicers 4	
205 Flask 2 104 Queequeg		2 100	Captain Ahab			
Se 105 Tashtego		2 101	Starbuck			
💁 106 Daggoo		2 102 2 103	Stubb Flask			
🧏 107 Fedallah 👤 108 Pip		2 103	Queequeg			
2 108 Pip 2 109 Dough Boy		Sp 105	Tashtego	Add Selected		
2 110 Ishmael		💁 106	Daggoo			
2 111 Fleece 🔻		S. 107	Fedallah			
Filter Type Any 🔻		2 108 2 109	Pip Dough Boy	Remove Selected		
		105	Ishmael	<u>Interversed</u>		
ICS #1 (172.16.0.1)		2 111	Fleece			
		2 112	Perth			
		2 113 2 114	Peleg Bildad			
		▲ 114 ▲ 🔤 Groups	unda			
		(( 115	Officers Call Group			
		() 116	Harpooners Hunting			
		<ul> <li>4) 117</li> <li>2 receiver</li> </ul>	Crew Paging Group (s) Crew Alert Group			
		₹ 3 receiver	(s) Crew Alert Group			
	Help				< Back Next >	Cancel

Figure 27 - Select which users who should be reachable from incoming calls

We must also define the outgoing behavior. This can either be "Prefix and dial out extension" - which allows your users to dial out using the trunk with both a prefix and a dial out extension, "Decided by extension length" - which sends a call over the trunk line if the dialed number is longer than the configured number of digits. "Dial out extension only" - which only provides a dial out extension for your users or disabled entirely. Dial out can also be set to "Disabled" if it should not be possible under any circumstances to call out with this trunk line.

It is also possible to enable call logging on a trunk line. For this option to be active you must have a 6200 Storage unit connected to your ICS 6200 network. See more information about this under the "Configuring storage" and "Call logging" sections.



2 103 Flask 2 104 Queequeg 3 105 Tashtego	s View Jools Help ( 6) €) € 20 € 20 € 20 € 20 € 20 € 20 € 20
Q. 106     Daggoo       Q. 107     Fedalah       Q. 108     Pip       Q. 109     Dough Boy       Q. 110     Ishmael       Q. 111     Fleece       Q. 112     Perth       Q. 113     Peleg       Q. 114     Ridad       Minoroups     Trunk Lines       ✓     Extensions	7/9          Prefix and dal out extension          7/9          Decided by entered extension length             Dial out extension only, no prefix number             Disabled             Should billing information be tracked on this trunk line?             Note:: Billing not available as no call logging unit has been configured. Do this under 'ICS 6200 Storage Settings'.             No extra billing information is tracked on this trunk line.             No extra billing information is tracked on this trunk line.             Extension based         Users are identified by the phone they are using to call the billed lines.         Users are identified by a pin they enter when they call a billed line.         The pins and users are configured from the configured user extensions.             Pin based         Users are identified by a pin they enter when they call a billed line.         The pins and users are configured from the call logging we binterface.         Note:         Internal calls will only be tracked by the extensions that were used.
igure 28 - Outgoing calls be	

Unless dialing out over the trunk is disabled, you must now select the dial out extension, and optionally prefix. If "Direct Inward Dialing" was selected during choosing the incoming actions, you must now supply your DID-prefix and fallback number in case we do not have a correct prefix to send.



👄 An	nity																			• ×
Eile	Edit Users	<u>Classes</u> <u>G</u> r	oups ]	runk Lines	View	Tools	<u>H</u> elp													
1		R 🛋 🗖		<b>8</b> 8	r.	64	11) 🚔	0-	. 📣		A.				1					
0	i 🔤 🔚 🛛	<b>6</b> 3 m	• 🕰	or a	0	0/ 0	JU 🗖		.* 🚈		<b>*</b> *	07			1					
					Add	Trunk	Line													
	Classes			-	Sele	ect the ex	ctension/pr	efix to cal	to reach	an outgoing	line ove	r this tru	ınk line.							
111	All Users	15 users(s)		_																
	Crew	7 users(s)																		
	Harpoone	rs 4 users(s)					E	nter the ex	tension o	r prefix to c	all to dia	l out. If	this number	is dialed	alone, a n	new dial to	ne will be giv It over the tr	en so the c	aller can dia	l a new
	Officers	4 users(s)				8/9	e	xternal nul	nder. 11 u	e number is	useu as	aprenx	, the rest of	nenun	ider will de	e dialed ou	it over the t	unk line.		
1	Users			=		0,5	E	xtension:		0	*									
	2 100	Captain Ahal	b																	
	2 101 2 102	Starbuck Stubb																		
	2 102	Flask																		
	2 105	Queequeg																		
	2 105	Tashtego																		
	2 106	Daggoo																		
	💁 107	Fedallah																		
	2 108	Pip																		
	2 109	Dough Boy																		
	2 110	Ishmael		-																
	2 111	Fleece		+																
Filter		Туре	Any	-																
	100 #4 #170	6.040																		
	ICS #1 (172.)	10.0.1)																		
	C	i i i i i i i i i i i i i i i i i i i	) 🕘 🗙		He	lp											< Back	Next	>	Cancel

Figure 29 - Supply the extension or prefix number to use

Finally, please verify that the information is correct.

Many additional settings such as restricting access to dialing out over the trunk, different sounds and other tweaks are changeable from the properties page for a trunk line. This is described in chapters such as "Access Control", "Call Logging" and "Custom System Sounds".

# 2.3.4.8 PRINTING THE CONFIGURATION

In order to get a hard copy of the configuration, you may use the "Print Extension Layout" function. This will give you a printout describing the current layout of the configuration, including extension, type and port number or MAC address / SIP password. All of this is listed per 6200 unit and grouped into physical extensions and VoIP extensions.





Figure 30 - Printing the Configuration

### 2.3.4.9 MARK AS GOOD

If you are happy with the configuration at this point, it is useful to run the "Mark as Good" function on the 6200 unit. Please consult the Phontech 6200 Firmware documentation for instructions on how to run this function, or how to restore a known good image.

### 2.3.5 LESS COMMON TASKS

#### 2.3.5.1 SIP LICENSES

To be able to use SIP or Snom 300 telephones in your ICS system, you have to have a SIP license installed. This license will be provided to you by Jotron AS. To check the current status of your SIP license you can go to the "Help -> Info" item from the menu bar. If you click the "Licenses" tab you should see the status of your license. If this tab is grayed out you do not have any license installed.



Information	-? <mark>- × -</mark>
Amity ICSes Licenses Log	
SIP Licenses	
MAC Addresses	00:06:cb:c0:03:24, 00:06:cb:c0:03:26, 00:06:cb:c0:03:13
Total Number of Licenses	25
Number of Licenses Available	25
Number of Licenses Used	0
Export Information	ОК

Figure 31 - License Information

To acquire a new license from Jotron AS or upgrade an old one you can use the "Request License Quote" dialog. This can be found under the "Help -> Request License Quote" menu.



Figure 32 - Request License Quote Menu Item

Fill out the dialog to request the number of SIP licenses you want and click the "Save" button to get a file that contains all this information. Then send this file to sales@jotron.com and you will be instructed on how to proceed with the order.



Request License Quote	? 🗙	
	est a quote for further licenses for your Phontech e details, and send the generated file to	
VoIP Licenses		
Current Number of Licenses	s 0	
License Active	×	
	No SIP License present.	
Used Licenses	0	
Valid MAC Addresses		
Current MAC Addresses	00:06:cb:c0:03:24 00:06:cb:c0:03:13	
Desired Number of Licenses	· 0	
E-Mail Contact Address		
Other Notes		
Other Notes		
	Save Cancel	

Figure 33 - Request License Quote Dialog

To make sure the license will be correct make sure all Phontech 6200 Units have been connected to the system

When you receive a license file you must import it to the configuration. Be sure to keep this license file safe as you will need it again if you want to create a new configuration from scratch for this system. Go to the "File -> Import License" menu item and select the license file you were provided.





Figure 34 - Import License

If the license file you selected was valid you will be notified about this and you can check the status of your license under "Help -> Info" as explained earlier.

Load	License File
i	Successfully loaded license. For more information, please see Help -> Info.
	ОК

Figure 35 - License Import Successful

#### 2.3.5.2 ACCESS CONTROL

In order to restrict access to certain resources, it is possible to set up Access Control via the configuration application. Access Control means that only a specific predefined set of users may use the resource. It is set up using the properties dialog of the resource in question.

In the dialog, simply set up who should have access to the resource.



	g Group - Paging Gro							
			View Tools Help					
- 6 6	1 🖅 🐨 🎿	<b>a</b> a	6( 6) 🕘 🍠	🗰 🛸 🐳 🛋	· 🚹 🎋 🗔 7			
						-		
		*	Basic Information	Alert Source	Access Control			
晃 105	Tashtego							
2 106	Daggoo							
2 107	Fedallah							
2 108	Pip							
2 109	Dough Boy							
2 110	Ishmael							
2 111 2 112	Fleece Perth							
× 112 113	Perth Peleg							
2 113 2 114	Bildad							
Groups	bildad							
(( 115	Officers Call Grou	n E						
116	Harpooners Hunt							
117	Crew Paging Gro.							
🚆 3 receiver	(s) Crew Alert Group				No access control ha	as been configured for this gr	oup.	
🐉 Trunk Lines					Enab	ole Access Control		
🖋 Extensions		-						
	Type Any	•						
ICS #1 (172.16.0	1							
ICS #1 (172.16.0	.1)							
C	🔷 🕘 🗶 🗙		Reset				Save Disc	ard Help

Figure 36 - Access Control for a Group

e Edit Users Cl	Group (modified) - P asses <u>G</u> roups <u>T</u> ru			
			(6) 6) 🖉 📾 🕌 😂 🕶 🚺 🚸 6} ↔ 🗮	
<ul> <li>105</li> <li>106</li> <li>107</li> <li>108</li> <li>109</li> <li>110</li> <li>111</li> <li>112</li> <li>113</li> <li>114</li> <li>Groups</li> <li>(115</li> <li>(116</li> <li>(117</li> <li>3 Trunk Lines</li> <li>Extensions</li> </ul>	Tashtego Daggoo Fedallah Pip Dough Boy Ishmael Fleece Perth Peleg Bildad Officers Call Group Bildad Officers Call Group Harpooners Hunt Crew Paging Gro c) Crew Alert Group		Basic Information     Members     Alert Source     Access Control       Select the members that can access this group.       Image: Select the members that can access this group.     Allowed Us       Image: Select the members that can access this group.     Allowed Us       Image: Select the members that can access this group.     Allowed Us       Image: Select the members that can access this group.     Allowed Us       Image: Select the members that can access this group.     Allowed Us       Image: Select the members that can access this group.     Allowed Us       Image: Select the members that can access this group.     Allowed Us       Image: Select the members that can access this group.     Add Selected       Image: Select the members that can access the group.     Add Select the members that can access this group.       Image: Select the group.     Image: Select the group.     Add Select the group.       Image: Select the group.     Image: Select the group.     Image: Select the group.       Image: Select the group.     Image: Select the group.     Image: Select the group.       Image: Select the group.     Image: Select the group.     Image: Select the group.       Image: Select the group.     Image: Select the group.     Image: Select the group.       Image: Select the group.     Image: Select the group.     Image: Select the group.       Image: Select the group.     Image: Select the	
0 C	• • • ×	[	Reset	Save Discard Help

Figure 37 - Restricting access to a Group

Jotron AS| Phontech 6200: Installation manual → Installation

Page 2-47



<u>File E</u> dit <u>U</u> sers <u>C</u>	dified) - Class Properties Jasses <u>G</u> roups Irunk Lines	View Iools Help 6( 6) 6) 7 📾 🗽 🗳 🕶 🎧 🎄 67 🗲	<b>-</b> - <b>x</b>
	15 users(s) 7 users(s) 4 users(s) 4 users(s) Captain Ahab Starbuck Stubb Flask Queequeg Tashtego Daggoo Fedallah Pip Dough Boy Ishmael Fleece	Basic Information       Members       Groups       Access Control         Select the destinations the members of this class has access to.       Image: Control of the second s	
		Legend: Resources this class does not have access to. Resources that are not restricted.	
0 C	• • • ×	Reset	Save Discard Help

Figure 38 - Viewing the Access Control settings of a Class



Figure 39 - Restricting Access to a User





### 2.3.5.3 HOTLINE

Hotline mode is the ability of having a telephone automatically dial an extension upon going off hook. It is possible to set up on analog or digital users by using the properties dialog of the user in question and opening the hotline tab.

Amity - Starbuck (model)	odified) - User Properties		- • ×
<u>File E</u> dit <u>U</u> sers <u>C</u> l	lasses <u>G</u> roups <u>T</u> runk Lines	<u>V</u> iew <u>T</u> ools <u>H</u> elp	
o, 🏣 🖪 🖪	📑 🖶 🛃 🍀	6( 6) 🕫 🖊 🖿 🗽 🗳 🗢 🎧 🎄 🛟 < 🋏 🗮	
	*	Basic Information Physical Ports Classes Groups Hotline Access	
Harpooners	4 users(s)	Enable hotline mode for this user	
Officers	4 users(s)		
▲ 🙎 Users 👤 100	Captain Ahab	Available Members	
2 101	Starbuck	4 🕿 Classes 4 🙎 Users	
2 102	Stubb	All Users 15 users(s) 2 102 Stubb	
2 103	Flask =	Harpooners 4 users(s)	
2 104	Queequeg	Officers 4 users(s)	
2 105	Tashtego	🔺 🙎 Users	
S. 106	Daggoo	🔔 100 Captain Ahab	
💁 107 💂 108	Fedallah Pip	103 Flask	
2 108 2 109	Pip Dough Boy	Los Queequeg	
2 110	Ishmael	Sp 105 Tashtego Sp 106 Daggoo Add Selected	
2 111	Fleece	2 106 Daggoo Add Selected	
2 112	Perth	2 108 Pip	
2 113	Peleg	2 109 Dough Boy	
2 114	Bildad	2 110 Ishmael Remove Selected	
Filter	Type Any 🔻	111 Fleece	
		112 Perth	
ICS #1 (172.16.0.1	1)	🔓 113 Peleg 💂 114 Bildad	
		Sildad ▲ III4 Bildad ▲ Image Groups	
		( 115 Officers Call Group	
		(a) 116 Harpooners Hunting Group	
		4) 117 Crew Paging Group	
		💘 3 receiver(s) Crew Alert Group	
		4 🔮 Trunk Lines	
		🛟 Nantucket Trunk FXO trunk	
C C			
		Reset Save Disca	rd Help

Figure 40 - Enabling Hotline for a User

Please note that this means that this user may only reach the recipient(s) specified in the hotline tab as he or she may no longer dial extensions.

# 2.3.5.4 HIGH PRIORITY CALLS

High Priority Calls is the ability to always be able to reach users regardless if they are already in a conversation. This functionality is enabled on a specific user or class. It can be turned on by checking the checkbox titled "This user/class can intrude into other users' calls". Any user with this enabled will be able to intrude into other users calls by pressing '1' when queried. Please note that the other party will be disconnected.



<u>E</u> dit <u>U</u> sers <u>C</u>	b (modified) - lasses Group				N ]	ools	Hel	p															_	
) 🏣 🖪 🖪										୍ର (	2 🔿		3 🙈			4								
	1915						<i>1</i> 0 (	<u> </u>	_	-48 1														
			_		asic Iı	- <b>f</b> arm	ation	Dhu	sical Po		Classe	_	Groups	1.00	tline									
			*								-			_	otline	Acc	cess							
Harpooners Officers	4 users(s) 4 users(s)			T	his tal	o allov	vs you	to edit	the na	me an	d descrip	otion o	of this us	er.										
2 Users	4 users(s)																							
2 100	Captain Aha	b																						
2 101	Starbuck			N	ame		Capta	in Ahab	)															
2 102	Stubb																							
2 103	Flask		Ξ		eccrin	tion	Diema	ctod ar	od troop	forme	d by a m	ontin	g with a	mont	ubito :	whale					 			_
2 104	Queequeg				courp		Usilid	accu di	iu u al là	some	abyan	ceuli	g wiur di	y car V	ad ince 1	wildie.								
2 105	Tashtego																							
💁 106	Daggoo																							
🙎 107 💂 108	Fedallah																							
× 108 109	Pip Dough Boy																							
1109	Ishmael																							
2 111	Fleece																							
112	Perth																							
2 113	Peleg																							
2 114	Rildad		Ŧ		xtens	ion	100		·															
	Type Ar	ηγ	-		X CCH 3																			
			_				🖌 Thi	s user (	can intr	ude in	to other	users	calls.											
ICS #1 (172.16.0	.1)																							
) C	- 🌒 🔴 🤅	X			leset														6	Save	Di	scard		Help

Figure 41 - Enabling High Priority for a User

# 2.3.5.1 MODIFYING PHONTECH 6200 SYSTEM SETTINGS

The Phontech 6200 System Settings dialog allows you to configure certain system-wide features. Among these are the "Time"-settings, "SNMP"-settings and the system wide "Analog Phone" settings.

Using this dialog, it is possible to set the time to a specific time zone and to synchronise the time to an external NTP-server. This can be useful when you want to synchronise time across multiple different systems to avoid that their perception of time drifts between them. "Local time" is the default setting, meaning that the system will use its internal clock to keep track of time. The local time and date can be set on the Phontech 6200 units using the front panel display.

It is also possible to set the SNMP settings for the Phontech 6200 system in the tab labeld "SNMP Settings". The system is capable of supporting both version 2 and 3 of the protocol. By default, version 2 is enabled. When using SNMP version 2, the community string must be set. By default, this is set to "ics6200".



Amity - ICS 6200 System Settings		
<u> Eile Edit U</u> sers <u>C</u> lasses <u>G</u> roups <u>T</u> runk l		
• 🖕 🔚 📓 📑 🖶 🎥 🖷	ᲒᲒ (( (5) d) 🎘 🎿 📾 🖕 🍕 🕸 😭 🛠 🎲 🛠 🖶 🃰	
	ICS 6200 System Settings	
<ul> <li>▷ Classes</li> <li>▷ Session</li> <li>○ Croups</li> <li>▷ P Trunk Lines</li> <li>▷ P Extensions</li> </ul>	Time Settings     SNMP Settings     Analog Phone Settings     Trunk Line Parking Settings       Ime should be set in jocal time     Ime should use time zones (Can be synced externally)     Ime zone     Ime zone       Ime zone     Ime     Ime     Ime       Adjust system time with external NTP Server     NTP Server	
ilter Type Any ▼ ICS ≠2 (PBX) ICS ≠3 (PBX) ICS ≠1 (PBX, 172.17.3.150)		
	Reset Save Discard H	elp

Figure 42 - Phontech 6200 System Settings – Time Settings

Amity - ICS 6200 System Settings File Edit Users Classes Groups Trunk L	ines ⊻iew ]ools <u>H</u>	-				- 0 ×
			a 🔍 🔊 🕸 🚱	🗳 🗊 🖪 🗷	( 🎄 🚷 🔫 🖬	
	ICS 6200			Trun <u>k</u> Line Parking Set		
Im Groups ▷ 🛟 Trunk Lines ▷ 🎤 Extensions	SNMP Version Community:	ics6200		<u>v2</u>	© SN <u>M</u> Pv3	
	Sink for Traps					
Filter Type Any V						
■ ICS #3 (PBX) ■ ICS #1 (PBX, 172.17.3.150)						
€ C ⊇ ●●●×	Reset					Save Discard Help

Figure 43 - Phontech 6200 System Settings - SNMP Settings

To enable version 3 of the protocol, simply select the correct version from the dialog and enter the desired login information.

The authentication method, encryption method and security level may be changed from this dialog, but the defaults should suffice for most cases. When in doubt, leave this unchanged.

Jotron AS| Phontech 6200: Installation manual → Installation



Amity - (modified) - ICS 6200 System Settings Elle Edit Users Classes Groups Irunk I	<ul> <li>6. (5) (1) 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</li></ul>	
<ul> <li>&gt; ■ Users</li> <li>■ Groups</li> <li>● ➡ Tunk lines</li> <li>&gt; Ď Extensions</li> </ul>	Time Settings     SNMP Settings     Analog Phone Settings     Tunk Line Parking Settings       SNMP Version          SNMP Version           SNMP Version           SNMP Version        Desired Authentication:          User         admin           SNMP Version           SNMP Version        User     admin           Password           pass123word           Authentication        Authentication Method          DES             SNMP        Security Level          Authentication required, no encryption           Sink for Traps        Sink for Traps:          172.16.2.169	3
Filter Type Any  Filter Type Any Filter Type (Any Filter	Reset	Save Discard Help

Figure 44 - Setting up SNMP Version 3

If you wish to receive traps from the Phontech 6200 system, please enable the checkbox and enter a valid IP-address, optionally followed by a port. The host entered here will receive traps concerning common hardware failures such as power supply failures, fan failures or earth faults.

Amity - (modified) - ICS 6200 System Settings Ie <u>E</u> dit <u>U</u> sers <u>C</u> lasses <u>G</u> roups <u>T</u> runk Lir	er View Teele Hele	
	8 5( 6) 6) # 2 🖬 🖕 8 🗰 🕹 5 0 1 ≥ 4 3 4 5	
	ICS 6200 System Settings	
Servers	Time Settings SNMP Settings Analog Phone Settings Trunk Line Parking Settings	
Groups     Groups     Trunk Lines	Flash type ETSI (100 ms)	
Extensions		
ter Type Any 💌		
ICS #2 (PBX)		
<ul> <li>ICS #3 (PBX)</li> <li>ICS #1 (PBX, 172.17.3.150)</li> </ul>		
🔁 C ᠫ 🔍 🖉 🗙	Reset Discard	Help
ure 45 - Phontech 620	0 System Settings - Analog Phone Settings	

Jotron AS| Phontech 6200: Installation manual → Installation

Page 2-52



System wide settings for analog phones are configured in the "Analog Phone Settings" tab. Here the settings for the "Flash" function can be changed.

The extension to retrieve calls stored in the incoming trunk line parking lot can be configured from the "Trunk Line Parking Settings" tab. Here you can input the extension number that must be called to retrieve the stored calls. Once a user dials this number, he or she will be asked to enter the parking room number given to the operator who first answered the call. This page will warn if there are no trunk lines configured with the parking capabilities or if the selected extension is already in use.

Eile Edit Users Classes Groups IrunkLines View Iools Help	
₀, 🗁 🖬 🚰 🖶 🏶 🔫 🉈 ((, (;) ()) 🧩 🍰 📖 🖕 🖑 🐥 😪 🗳 🗢 🚺 🏹 🎄 (‡) 🖛 🗮	
ICS 6200 System Settings	
ICS 6200 System Settings	
Classes     Time Settings     SNMP Settings     Analog Phone Settings     Trunk Line Parking Settings	
Image: Groups     Parking Lot Extension       P     ♣ Trunk Lines       P     ✓ Extensions	
Filter Type Any 🔻	
<ul> <li>ICS #2 (PBX)</li> <li>ICS #3 (PBX)</li> </ul>	
● ICS ≠1 (PBX, 172.17.3.150)	
🔁 🖸 🌢 🌢 🗶 Reset Discard	Help

Figure 46 - Phontech 6200 System Settings - Trunk Lien Parking Settings



# 2.3.5.2 CONFIGURING STORAGE

The ICS6200 Storage Settings dialog allows you to configure the storage devices in your network. This is required to make use of call logging functionality. The dialog can be found under the 'Tools' menu.



Figure 47 - Phontech 6200 Storage Settings

Before any call logging setting can be changed, you must first select a storage unit to be used in the network. This is done in the drop down box in the upper left part of the page view. The other settings can only be changed after this has been done.

From this screen you can change the username and password used to access the call logging web interface. You can also enable or disable logging of internal calls as well as whether or not to update account balances even though balance is not enforced on accounts. This permits accounts to go into a negative balance. You can also manage the different PINs used by the system if any trunk lines have enabled call logging with PIN authentication.



C Amity	
<u>File Edit Users Classes Groups Trunk Lines View Tools H</u> elp	
o, 🗁 🔚 🏭 🖻 🗁 🍪 6(, 6) 6) 🎜 🍰 📖 🗽 67 🔆 🚱 🝰	• • • • • • • • • • • • • • • • • • •
ICS 6200 Storage Settings	
	numbers
🙎 104 Queequeg Call logging unit ICS #4 (172.16.0.4) 🔻 These	e pin numbers must be entered when dialing a line that has pin access enabled.
😓 105 Tashtego Call logging access control Pin	Description
🔒 107 Fedallah Username	
2 109 Dough Boy Password	
2 110 Ishmael	
111 Fleece 🗌 Log internal calls	
112     Perth     E     Update user/pin balance even when billing meters are not enabled       113     Peleg	
113 Peleg	
Groups	
▷ ♦ Trunk Lines ✓ Extensions	
Filter Type Any 🔻	
ICS #1 (PBX, 172.16.0.1)	
ICS #4 (Storage, 172.16.0.4)	
€ C > ● ● ● × Reset	
Reset	Save Discard Help

Figure 48 - Phontech 6200 Storage Settings

To add a new pin press the green plus icon and a dialog will appear. In this dialog you must enter the PIN and optionally a description of the PIN. The description can be changed by selecting the PIN in the list and clicking the notebook at next to the green plus icon. If you want to remove a PIN, click it and then click the red minus icon.

If you delete a pin number the balance attached to this pin will be removed and cannot be restored unless you have an earlier backup from the web interface.

Add Pin entry	ଚ	x
Enter Pin number:		
Enter description:		
	OK Can	cel

Figure 49 - New PIN Dialog

The web interface for the storage unit can be access by typing the IP address of the storage unit into the address bar of web browser. The address is shown in the drop down where you select the unit to use as your call logging storage device.



### 2.3.5.3 CALL LOGGING

If a storage unit has been configured you can configure call logging on your trunk lines. See the "Configuring Storage" section above.

To configure call logging on a trunk line, right click the trunk line in the left hand tree view and click "Properties". This will open the trunk line properties page. Go to the "Outgoing Call Method" tab and find the call logging options at the bottom of the page. There are a few different modes of call logging that can be enabled and they are as follows:

- No This will not enable call logging on this trunk line
- **Extension based** This will base call logging and billing on the extension that calls the trunk line. When a user calls through the trunk line the number he was calling from is logged and any account balance updates are performed against an automatically created account that matches the phone that was called from.
- **Pin based** A PIN based call logging system will ask the user to input a PIN before he can call out on a trunk line. When a user dials the trunk line either by a dial out extension or a prefix or any other method he will be asked for the pin before the call goes out. If the user can enter a valid PIN, the call will be logged with this PIN number and any account updates will be to the PIN account that was entered. PIN numbers can be configured in the storage settings. See the "Configure Storage" section above for more information.

Amity - Nantucket Trun	ık - Trunk Properti	es		x
<u>File Edit Users Class</u>	ses <u>G</u> roups <u>T</u> r	unk Lines	<u>Vi</u> ew <u>T</u> ools <u>H</u> elp	
	🞐 🛖 🎥	88 60	(;) (!) 🧩 😫 📖 🗽 🖑 🏶 😂 🗢 🚹 🏹 🚸 🛟 🖛 🛏 🗮	
		*	Basic Information Port Information Incoming Call Actions Outgoing Call Method Outgoing Access Control	
2 103	Flask		Select if we should enable outgoing calls over this trunk line	
2 104	Queequeg		Prefix and dial out extension	
S. 105 S. 106	Tashtego Daggoo		Decided by entered extension length	
100	Fedallah		Dial out extension only, no prefix number	
2 108	Pip		Users cannot use this trunk line to dial out.	
2 109 2 110	Dough Boy Ishmael		Enter the extension or prefix to call to dial out. If this number is dialed alone, a new dial tone will be given so the caller can dial a new external number. If it is used as a prefix, the remaining numbers pressed when dialing will be regared as the external number to call.	
2 110	Fleece		Extension 0	
2 112	Perth	=		
2 113 2 114	Peleg Rildad		DID Prefix	
Groups	Kildad		DID Fallback CID	
4 🔮 Trunk Lines			Dial out 'enter number sound'	
😫 Nantucket Tri 🎤 Extensions	unk FXO trunk		Default 🗸	
Extensions		<b>T</b>		
Filter	Type Any	-	Should billing information be tracked on this trunk line?	
T litter	Type Arty	-	No	
ICS #1 (PBX, 172.16			No extra billing information is tracked on this trunk line.  Fitension based	
ICS #4 (Storage, 172)	2.16.0.4)	_	Users are identified by the phone they are using to call the billed lines.	
			Users are automatically created from the configured user extensions.  Pin based	
			Users are identified by a pin they enter when they call a billed line. The pins and users are configured from the call logging web interface.	
			Note: Internal calls will only be tracked by the extensions that were used.	
			Enable pre-paid billing meters	
			Delay billing by 20 seconds	
0 C 🔈				
		L	Reset Save Discard Help	
·				



There are two other options that can be enabled in the call logging options page. If "Enable pre-paid billing meters" is checked, a user will only be able to make a call if the account he is associated with, either a PIN or the phone itself, must have a pre-paid balance. If the required balance is available, the

Jotron AS| Phontech 6200: Installation manual → Installation



call will proceed as normal however it will only be able to run for as long as the user has available balance.

The cost rates for different external extensions can be configured in the storage unit web interface.

If "Delay billing by 20 seconds" is checked, then the user gets the first 20 seconds of a call for free. Depending on the technology that is used to connect the trunk line to the ICS 6200 system, it might be required to tick this to avoid unnecessary billed calls because the user in the other end did not pick up. Some systems indicate that they go off-hook before the other end actually has answered.

### 2.3.5.4 CUSTOM SYSTEM SOUNDS

The ICS 6200 system allows you to change some of the default sounds and notifications used in the system. To change these sounds you must go to the "Custom Sound Files" screen found under the "Tools" menu.

Before any of the default sounds can be changed you must first upload some new sounds. This is done by clicking the "Add" button on the right side of the "Uploaded sound files" list. This will open a file dialog where you can select a sound file to upload. The sound file can be either a .wav file or an .mp3 file. For the best quality they should be in 8000 Hz Mono. When the file us uploaded it is transcoded to the internal format used in the ICS 6200 system. You can listen to the result of the transcode by clicking the newly uploaded file in the list and then click the "Play" button to the right of it.

After one or more files have been uploaded they can be selected in the drop down boxes to the right of the page. This will change the sounds in question to the one you have selected. Uploaded sounds are also used in other parts of the application such as in the Trunk Line properties screen where you can select the sound that will play when a "Switchboard" configuration is used.



Liploaded sound files     103   104   Queequeg   105   106   Daggo   107   Fedallah   2   108   109   Dough Boy   2   111   Fleece   2   111   Fleece   2   111   Fleece   2   111   Fleece   2   113   Peleg   114   Ridad   Trunk Line - KNO Balance   Default •   Play    Trunk Line - Low Balance Default •	Amity - Custom Sound I											
Ubloaded sound files     104   Queequeeg   105   105   106   107   Pedalah   108   109   0 orgh Boy   110   110   111   Peter   112   Perth   113   Peter   114   Rildad   115   116   117   Peter   118   Pildaded sound files     Dom     Play     Tunk Line - Invala Pin   Petaulat     Play     Tunk Line - Invala Pin     Petaulat     Play     Tunk Line - Invala Pin     Petaulat     Play     Tunk Line - Invala Pin     Petaulat     Play     Tunk Line - Invala Pin     Petaulat     Play     Tunk Line - Invala Pin     Play     Play <th></th>												
Ubloaded sound files     104   Queequeeg   105   105   106   107   Pedalah   108   109   0 orgh Boy   110   110   111   Peter   112   Perth   113   Peter   114   Rildad   115   116   117   Peter   118   Pildaded sound files     Dom     Play     Tunk Line - Invala Pin   Petaulat     Play     Tunk Line - Invala Pin     Petaulat     Play     Tunk Line - Invala Pin     Petaulat     Play     Tunk Line - Invala Pin     Petaulat     Play     Tunk Line - Invala Pin     Petaulat     Play     Tunk Line - Invala Pin     Play     Play <td>a, ៉ 🗐 🏹 🗎</td> <td>🝷 🛻   🎥   🕺</td> <td>R 60</td> <td>🔄 📣 🔏</td> <td>i 🕺 📓</td> <td>। 🔍 🌆 🕺</td> <td>f 😡 🎎 😅</td> <td>) 🚹 🗹 🎪 🛛</td> <td>🔮 &lt; 📂</td> <td></td> <td></td> <td></td>	a, ៉ 🗐 🏹 🗎	🝷 🛻   🎥   🕺	R 60	🔄 📣 🔏	i 🕺 📓	। 🔍 🌆 🕺	f 😡 🎎 😅	) 🚹 🗹 🎪 🛛	🔮 < 📂			
System sounds System sounds System sounds System sounds System sounds Default • Truck Line - Invaid Pin Default • Truck Line - Invaid Pin Default • Truck Line - Low Balance Default • Play Truck Line - Low Balance Default • Play Truck Line - Low Balance Default • Play Truck Line - Invaid Pin Default • Play Truck Line - Invaid Pin Play Truck Line - Inva				0/0/0	·	· • •						
System sounds System sounds System sounds System sounds System sounds Default • Truck Line - Invaid Pin Default • Truck Line - Invaid Pin Default • Truck Line - Low Balance Default • Play Truck Line - Low Balance Default • Play Truck Line - Low Balance Default • Play Truck Line - Invaid Pin Default • Play Truck Line - Invaid Pin Play Truck Line - Inva			_									
103 Flask 104 Queequeg 105 Tashtego 105 Tashtego 106 Daggoo 107 Fedalah 108 Pip 100 Dough Boy 110 Ishmael 111 Fleece 112 Peth 113 Peleg 114 Ridad For Type Any 1CS #1 (PBX, 172160.1) 1CS #1 (PBX, 172160.1) 1CS #1 (PBX, 172160.4) 1CS #1 (PBX, 172160.4)			^	-	nies			System sounds				
9,105 Tashtego Doggoo 106 Doggoo 108 Pip 109 Dough Boy 110 Ishmael 111 Fleece 1112 Peth 113 Peleg 114 Rildad Groups Trunk Lines Trunk Line - Low Balance Default • Play	2 103	Flask		boom			Add	Intrusion notification	Default 🔻			
<pre>vibs Tashtego vibs Display vibs vibs Vibs Vibs Vibs Vibs Vibs Vibs Vibs V</pre>	2 104						Remove	Trunk Line - Enter Pin	Default 💌			
<pre>\$ 107 Fedallah \$ 108 Pip \$ 109 Dough Boy \$ 110 Ishmael \$ 111 Fleece \$ 112 Peth \$ 113 Peleg \$ 114 Rildad \$ Groups * Trunk Lines * Trunk Li</pre>	晃 105											
108       Pip         109       Dough Boy         111       Fleece         112       Perth         113       Peleg         114       Ridad         Groups       Trunk Line * Low Dalakte Delawit *         Namucket Trunk EXO trunk       Namucket Trunk EXO trunk         Point Set (PBX, 172.16.0.1)       ICS #1 (PBX, 172.16.0.4)								Trunk Line - Invalid Pir	n Default 🔻			
2       109       Dough Boy         110       Ishmael         2       111       Fleece         112       Peth       #         113       Peleg       #         2       114       Ridad         *       Trunk Lines       *         *       *       *         *       Trunk Lines       *         *       *       *         *       *       *         *       *       *         *       *       *         *       *       *         *       *       *         *       *       *         *       *       *         *       *       *							Play	Trunk Line - Low Balar	nce Default 🔻			
110       Ishmael         111       Fleece         113       Peleg         114       Rildad         Trunk Lines       *         *       Trunk Lines         *       Trunk King         *       *         *       Trunk King         *       *         *       *         *       *         *       *         *       *         * <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>												
111 Fleece   112 Peth   113 Peleg   114 Rildd   Frunk Lines   Nantucket Trunk FXO trunk   Extensions   III   ICS #1 (PBX, 172.16.0.1)   ICS #4 (Storage, 172.16.0.4)												
112 Perh   113 Peleg   114 Ridad   Groups   Trunk Lines   Nantucket Trunk FXO trunk   Extensions     Image: Comparison of the second seco		1										
113       Peleg         114       Rildad         Groups       Trunk Lines         Nantucket Trunk FXO trunk         Extensions         Trunk Lines         ICS #1 (PBX, 172.16.0.1)         ICS #4 (Storage, 172.16.0.4)		1										
Groups   Trunk Lines   Letensions   r   Type Any   ICS #1 (PBX, 172.16.0.1)   ICS #4 (Storage, 172.16.0.4)		Peleg	E									
Trunk Lines Nantucket Trunk FXO trunk Extensions Type Any CICS #1 (PBX, 172.16.0.1) CICS #4 (Storage, 172.16.0.4)												
Nantucket Trunk FXO trunk   Extensions   III   ICS #1 (PBX, 172.16.0.1)   ICS #4 (Storage, 172.16.0.4)												
✓ Extensions ICS #1 (PBX, 172.16.0.1) ICS #4 (Storage, 172.16.0.4)	4 🔮 Trunk Lines											
er Type Anv ▼ ● ICS #1 (PBX, 172.16.0.1) ● ICS #4 (Storage, 172.16.0.4)		ink FXO trunk										
er Type Any    ICS #1 (PBX, 172.16.0.1)  ICS #4 (Storage, 172.16.0.4)	-		-									
ICS #1 (PBX, 172.16.0.1) ICS #4 (Storage, 172.16.0.4)	٠ III											
CS #4 (Storage, 172.16.0.4)	ilter	Type Any	•									
CS #4 (Storage, 172.16.0.4)			_									
Image: Save Discard Help	ICS #4 (Storage, 172	.16.0.4)										
Image: Save Discard Help												
Image: Save												
Image: Save												
Image: Save Discard Help												
C Save Discard Help												
C Save Discard Help												
C Save Discard Help												
C Save Discard Help												
Save Uscalu riep	C C	🕘 🕘 🔪 🗙	1	Reset						Save	Discard	Help
			L							0010	- Discard	



#### 2.3.5.5 MODIFYING GLOBAL SNOM SETTINGS

The global Snom settings dialog allows you to change the default settings for all the Snom 300 telephones in your system. Under "General Options" it is possible to change the default tone scheme, clock format and ring tone. In the "Volumes" section you can change the volume on the ringer as well as the volumes of calls in speaker and handset mode. Under the "Other" section you can force the settings for all phones. This will disallow any user to change any of these settings on the phone itself.



Amity - Global Snom Provisioning Properties		
Eile Edit Users Classes Groups Trunk Lin		
i 🗗 🔚 🔚 🛃 📑 🐨 🦝	6( 6) d) 🚝 🍰 🖿 🗽 🖑 🔆 😪 🗳 🗢 🎧 🏹 🎄 🛟 < 🛏 🧮	
	Global Snom Provisioning Properties	
Classes	General Options	
▷ 2 Users	Tone Scheme Australia 🔻	
Groups  Group	Clock format 24H	
Extensions	Ring tone Ringer 1 💌	
	Volumes	
	Ringer Volume 8	
	Handset Volume 8	
*	Speaker Volume 8	
	Other	
	Force Settings	
•		
Filter Type Any		
ICS #1 (PBX)		
ICS #4 (Storage)		
	Reset Save Discard	Help



#### 2.3.5.6 MODIFYING GLOBAL UPN SETTINGS

The global UpN settings dialog allows you to change the default settings for the UpN telephones in your system.

It is possible to change the default ring tone, handset volume, speaker volume, paging volume and alert volume, as well as setting the default backlight level and the extensions reached by pressing M1 through M3.

The speed dial buttons M1 through M3 can operate in different modes, but only when the destination extension of a speed dial button is another digital UpN phone. The three modes of operations are:

- **Normal** The button works as a normal speed dial. The number is dialed as if it were entered manually on the key pad.
- Intercom The number is dialed and the other end automatically goes off-hook in an intercom state. This means that the sound will go out on the speaker on the other end and the external microphone will be enabled. The conversation will therefore go both ways until the call has been terminated.
- **Paging** The number is dialed and the other end will go off-hook in speaker mode but the microphone will not be enabled. This means that the call will only serve as a page that cannot be responded to without the performing another call.

All the speed dial buttons can either be pushed once or held down. If the buttons are pushed the calls must be terminated by either by putting the handset back on-hook or pressing the ACT key. If the buttons are held down the call will automatically terminate once the button is released.



Eile Edit Users Classes Groups IrunkLines View Tools Help 6, 🗁 🔚 🎇 👺 🖶 🗟 🕸 🚓 6( 6) 6) 7 7 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
o,	
Global UpN Telephone Settings	
Harpooners 4 users(s) Ringtone Tone #1	
Officers 4 users(s) Users Handset Volume 2	
100 Captain Ahab Speaker Volume 2	
101     Starbuck       102     Stubb   Paging Volume	
2     103     Flask          ■         Alert Volume           ■         Alert Volume        2     104     Queequeg	
Sa 105 Tashtego Backlight 75	
Speed     Daggoo     Teriminal ID       International Internatione International Inte	
2 108 Pip	
110 Ishmael	
113 Peleg	
114 Rildad  Filter Type Any	
■ ICS #1 (172.16.0.1)	
$1CS \neq 1$ (1/2.16.0.1)	
C O C Save Discard	
C Save Discard	Help

Figure 53 - Changing Global UpN Settings

# 2.3.5.7 CONFIGURING CONFERENCE ROOMS

Conference Rooms are special extensions where multiple users may engage in conversations together. The Conference Configuration dialog allows you to enable conference rooms and configure the extension used to dial to the conference rooms.



Figure 54 - Locating the Conference Config Dialog



Amity - Conference Properties	
<u>File Edit Users Classes Groups Trunk Lines</u>	
	( 🔄 🕘 🧩 🛸 🐘 🖕 🥙 🌞 😪 🗢 🎦 🖉 🏀 😫 🖛 🖿 🧮
	Conference Room Settings
▷ 2 Classes ▲ 2 Users	Enable Conference Rooms
2 101 Starbuck	Conference number 115
2 102 Stubb	
2 103 Flask	
2014 Queequeg 2015 Tashtego	Conference Rooms
Sp 106 Daggoo	When dialing into a conference room you will be asked for the room number you want to use. Any other participants in the conference room call should give the
🔒 107 Fedallah	same conference room number to be in the same conference. Multiple rooms can be active at the same time.
2 108 Pip 2 109 Dough Boy	When a user is inside the conference room he or she can press 0 to invite additional users. After 0 is pressed and a beep is played back enter the number of the new participant and press #.This will call the new user and put the first user back into the conference room.
2 110 Ishmael	new parucipant and press #, mis will call the new user and put the mist user back into the conterence room.
2 111 Fleece	
112 Perth 113 Peleg	
2 114 Rildad	
📾 Groups 🗸 🗸	
Filter Type Any	
ICS #1 (PBX)	
ICS #4 (Storage)	
C 2	
	Reset Save Discard Help



#### 2.3.5.8 UPGRADING FIRMWARE

It is possible to upgrade the firmware of Phontech 6200 units by using the Phontech 6200 Configuration Application and a new firmware file as supplied by Jotron. You can upgrade the firmware of specific Phontech 6200 units by right clicking on the unit in question in the lower left corner of the application and selecting "Upgrade Firmware". However, in cases where you have more extensive systems with several 6200 units, it is easier to use the "Update System Firmware" dialog, as found under the "Tools"-menu.



Figure 56 - The Update Firmware Tool

Upon opening either of these two options, you will be asked to find the new firmware file. Once this has been done, the application will check that the new firmware is valid and present you with the version and build date of both the current firmware and the newly selected firmware.



If this information looks valid, press "Ok" to send the new firmware to your 6200 unit(s). The firmware will be checked for correctness on the Phontech 6200 unit upon receiving it, prior to extracting it. The process will take a few minutes and the Phontech 6200 unit(s) will reboot upon completing it.

Firmware In	formation	? X
Current firmw	are	
Version:	ics6200_1.0	
Build date:	Thu 3 Jan 15:21:57 CET 2013	
New firmware		
Version:	ics6200_1.0-rc5-52-gb9286e5	
	Sat Jan 504:24:46 CET 2013	
Verified:	×	
Update Size:	21440 KiB	
	ОК	Cancel

Figure 57 - Information about Current and New Firmware

#### 2.3.5.9 **RENAME ICS**

If it is desired, it is possible to change the identifier of each unit in the Phontech 6200 system. This identifier will be displayed in the visual representation of the Phontech 6200 network and in the printed extension layout. To rename a 6200 unit, right click on the unit in question in the lower left corner of the application and select "Rename ICS".



		eleg ildad		Ŧ	
Filter		Туре	Any	•	
ICS #	¥1 (172.16.0.1)		Refresh com Rename ICS Update firm	-	
			Delete unit		
• •		•	<b>X</b> •		

Figure 58 - Renaming a Phontech 6200 Unit

### **2.3.5.10 MIGRATE CONFIGURATION TO ANOTHER SYSTEM**

Sometimes it can be useful to use the same configuration on multiple systems. To achieve this, the configuration must be migrated from one system to another. We will call the previous system A and the new system B.

The first step is to save the configuration of system A to a file a computer. After the configuration is saved the computer must be connected to system B. While the computer is connected to system B, load up the configuration from system A and enter the "Migrate Configuration" wizard from the Tools menu.



Figure 59 - Migrate Configuration Wizard Menu Item




In the Migrate Configuration wizard you are presented with the view of the current system as well as the view of the system in the loaded configuration. The system in the configuration can be seen under "Configured ICSes" and the connected system can be found under "Unassigned discovered ICSes". The lists in both views display the IP addresses of the units as well as the modules that are or have been inserted in them.

C Amity	Contractory of the local division of the loc	
<u>File Edit U</u> sers <u>C</u> lasses <u>G</u> roups <u>T</u> runk Li	ines <u>V</u> iew <u>T</u> ools <u>H</u> elp	
. 🖕 🔚 🖪 📑 🛖 🍰 🏔	🔏 🔛 📣 🎜 🐋	8 📖 🗼 8 🔆 😫 🗢 🚺 🏹 🎄 🛟 🖘 😑
Classes		
Lisers		
Trunk Lines		Configured ICSes
Extensions	2/2	Status Configured Assigned Type M1 M2 M3 M4 M5 M6 Status:
	-,-	ICS #2 (172.16.0.2) Storage Nothing selected.
		O ICS #1 (172.16.0.1) PBX O O O O O
		€ III ►
		Assign selected ICS
		Clear selected assignment
		Auto assign
		Unassigned discovered ICSes
		ICS Type M1 M2 M3 M4 M5 M6
Filter Type Any 💌		ICS #1 (172.16.0.1) PBX
ICS #1 (PBX)		ICS #4 (172.16.0.4) Storage
ICS #1 (PBX, 172.16.0.1)		
ICS #2 (Storage)		
ICS #4 (Storage, 172.16.0.4)		Modules Legend (Mx) Status Legend
		FXS Module     ICS is not assigned
		FXO Module     ICS is assigned and modules match
		UpN Module     ICS is assigned and modules does not match
		E8M Module
		•
	Help	< Back Finish Cancel

Figure 60 - Unassigned ICSes in Migrate Configuration

If the configured and discovered systems are identical in the module configuration you can press the "Auto assign" button found between the two views. This will try to automatically match the modules of the configured ICSes and the discovered ones so they map up perfectly.

If the modules does not match, but you still want to use the configuration anyways you must manually assign which discovered ICS in system B that should take over the role of a configured ICS in system A. To do this you first click the discovered ICS in the bottom view and then click the configured ICS you want it to take the role of in the top view and then click the "Assign selected ICS" button to assign it. The selected discovered ICS should then disappear from the bottom view. Do this for all configured Phontech 6200 Units.

Only Phontech 6200 units of the same type can be assigned to each other.



Amity ile <u>E</u> dit <u>U</u> sers <u>C</u> lasses <u>G</u> roups <u>T</u> runk			▋▋▓▓▓⋞⋫≣	
Classes Users Groups Trunk Lines  Ketensions	2/2	Configured ICSes Status Configured Assigned ICS #2 (172.16.0.2) ICS #4 (172.16 ICS #1 (172.16.0.1) ICS #1 (172.16 (	Type         M1         M2         M3         M4         M5         M6           .0.4)         Storage         .0.1)         PBX	Status: Nothing selected.
ter Type Any ▼ ■ ICS ≠1 (PBX) ■ ICS ≠1 (PBX, 172.16.0.1) ■ ICS ≠2 (Storage)		Unassigned discovered ICSes	Auto assign	
CS #4 (Storage, 172.16.0.4)		Modules Legend (Mx)           FXS Module           FXO Module           UpN Module           E&M Module	Status Legend ICS is not assigned ICS is assigned and mc ICS is assigned and mc	
	Help			Back Finish Cancel

Figure 61 - Assigned ICSes in Migrate Configuration

Once all configured Phontech 6200 units have been assigned a discovered ICS you can click "Finish" to perform the migration. After the migration is done the configuration can be sent to the system as normal.

#### 2.3.6 **TROUBLESHOOTING**

In the case that you run into some trouble, this section contains some pointers on how to get some help and how to troubleshoot basic issues.

#### 2.3.6.1 STARTING FROM SCRATCH WITH A NEW CONFIGURATION

If the configuration you have created does not fit as well as anticipated, it may be easier to restart from scratch. This may be done using the "New Configuration" function, which will present you with a pristine starting point so you can try again. Remember to send the configuration if you want to reset the configuration of the Phontech 6200 network too.

#### 2.3.6.2 UNABLE TO SEND CONFIGURATION DUE TO LICENSE ERROR

If you get the error message below when you try to send the configuration that means that the installed license either does not validate or does not provide enough licenses for the amount of SIP or Snom 300 phones configured in the system.



👄 Error	During Sending
	There was an issue when sending the configuration to the ICS6200 system.
	The configuration cannot be sent to the system because the attached SIP license is not valid for the number of SIP connections in the system.
	Please go to the Help menu and request a license qoute for atleast 2 SIP licenses.
	It is also required that all the ICS units in the system are online before the license can be validated.
	ОК
	Licence Freez during Cond Configuration

Figure 62 - License Error during Send Configuration

For the license to validate correctly, all of the Phontech 6200 units in the system must be powered on and connected to the network. This can be verified by inspecting the list of Phontech 6200 units in the lower left corner of the Configuration Application and see that all the status icons are green.

If the license is not valid for the given system or the number of SIP telephones in use, you can request a new license from "Help -> Request License Quote" as explained in the "SIP Licenses" chapter.

#### 2.3.6.3 REVERT TO KNOWN GOOD

If you created a known good fallback previously, it is possible to restore that state by using the front panel display of the Phontech 6200 unit. Please consult the Phontech 6200 Firmware documentation for instructions on how to perform this operation.

#### 2.3.6.4 FACTORY RESET

This function will revert the Phontech 6200 unit to its factory state, and remove all configuration, databases and settings contained on the Phontech 6200 unit. It is possible to perform this using the front panel display of the Phontech 6200 unit.

Once this has been performed, the Phontech 6200 unit reverts to its factory defaults. This means that you will have to run through the first run wizard again. Please consult the Phontech 6200 Firmware documentation for instructions on how to perform this operation.



#### 2.3.6.5 CHOOSE NETWORK INTERFACE



Figure 63 - Network Configuration Location

This function can be useful if you have multiple network interfaces connected to different networks. This may cause the configuration application to not be able to discover your Phontech 6200 network. The dialog present under "Tools -> Network Configuration" allows you manually select the correct network interface. By doing this, you will instruct the Phontech 6200 Configuration Application to send discovery requests to the correct network instead of the more generic fallback. This setting is stored across restarts of the application. The default value is the "Any"-setting.



Figure 64 - Setting a Network Interface

#### 2.3.6.6 CREATING AN INFORMATION PACKAGE

If you require additional support for your Phontech 6200 System, please enclose an Information Package with your support request. The Information Package can be created using the "Help -> Info" dialog, simply press the "Export Information" button. This will create a single file containing logs from the application and any Phontech 6200 unit in the network, the configurations of each unit and information concerning the software versions used for the Configuration Application and each Phontech 6200 unit.



Information		8 <b>x</b>
Amity ICSes Log		
Application version	v1.0-rc6 (Jan 7 2013 14:58:42)	
Protocol version	1	
Compiled for Qt version	4.8.2	
Running Qt library version	4.8.2	
Export Information		ОК

Figure 65 - Information Window

#### 2.3.6.7 LIST OF ALLOWED SEPARATORS IN NAMES

It is possible to use alphanumeric characters for names in the configuration application, in addition to the following separators:

- '-' (hyphen)
- ',' (comma)
- '.' (period)
- '+' (plus)
- '&' (ampersand)
- '#' (hash)



## 2.4 FRONT PANEL MANUAL

#### 2.4.1 **LED INDICATIONS**

There are three LEDs found on the left side of the Phontech 6200 unit, providing different information. From top to bottom, they are the power LED, the info LED and the error LED.



Figure 66 - Phontech 6200 Front View

The power LED will either be red or green, depending on the power supply status of the unit. If both power supplies are active, the LED will be green. If one of the supplies is down, the LED will be red. The info LED will show a heartbeat when the unit is running. The frequency of the heartbeat may give you an indication of the relative load of the unit. The error LED will light up if an error has been detected. More information regarding the type of error can be seen in the Information-menu.

#### 2.4.2 FRONT PANEL DISPLAY

The front panel display provides navigation buttons on the left side, an LCD-screen for displaying information and a cancel and enter button on the right hand side. The front panel also includes a reset button which may be reached by using a safety pin or a similar instrument.



Figure 67 - Phontech 6200 Display and Buttons

#### 2.4.3 FIRST RUN WIZARD

Unless the 6200 has been set up previously, it will run a first time setup wizard when powered on. This wizard will allow you to set the time and date, as well as choose if the 6200 shall be a new one or a replacement for another.

Press Enter

Figure 68 - First Step of the First Run Wizard

Adjust clock and date

Figure 69 - Adjusting Clock and Date in the First Run Wizard



Figure 70 - Entering the Time in the First Run Wizard

Enter date: 3 Jan 2013

Figure 71 - Entering the Date in the First Run Wizard

If the 6200 is a new 6200, you must select which number it is. The number shall be unique in a given 6200 network, and the first 6200 in a given network must be numbered 1.

```
New ICS?
Yes
Figure 72 - Is This a Replacement or a New Unit?
ICS Number:
1
```

#### Figure 73 - Select the Number for this Phontech 6200 Unit

If the 6200 is a replacement for a previous 6200, you may select which 6200 it is a replacement for among the ones currently missing. Please note that the replacement 6200 must have the same line modules installed. If this is not the case, the wizard will warn you, but you may still complete it and reconfigure the unit at your convenience. Once the wizard is completed, the unit will reboot, and can be configured and used.

#### 2.4.4 **MENUS**

When running, the display will show the Jotron logo by default. When this is shown, pressing any of the buttons on the unit will show the menu system.



Figure 74 - The Jotron Logo, the Default View

You may navigate through the menu system by using the up and down buttons. Enter will select or activate the currently chosen entry, while cancel will go back to the previously selected entry in the menu. Use the left and right buttons to select different options found on the same screen.

The PBX units have all the menus mentioned in these chapters while the Storage units only have the "Information" and "Setup" menus described in chapters 2.4.4.5 and 2.4.4.6 respectively.





#### 2.4.4.1 MODULE OVERVIEW



Figure 75 - Module Overview

This screen gives a quick overview of the current state of the line modules installed. If any UpN modules are installed, it is possible to see which ports on the front that have telephones connected.

#### 2.4.4.2 **MODULES**



Figure 77 - Viewing a Specific Module Position

This screen gives more in-depth information about each of the line modules installed, such as the type of module, the position it is installed in, and which ports on the front correspond to the module in question. It is also possible to select individual modules in order to see the extension (if any) that have been assigned to that particular port.

```
Ch1: 201

Figure 78 - Extension for Port 1
```

#### 2.4.4.3 SNOM

へ Snom w Figure 79 - Snom Menu

The Snom menu allows you to see the Snom telephones configured on this Phontech 6200 unit. It will show you the extension the Snom telephones are registered under, if the phone has registered and the MAC-address of the phone.

```
2.4.4.4 SIP
```

∧ SIP ∨ Figure 80 - SIP Menu



Figure 81 - Viewing a SIP Extension

The SIP menu allows you to see the SIP telephones configured on this Phontech 6200 unit. It will show you the extension the SIP telephones are registered under and if the phone is currently registered.

#### 2.4.4.5 INFORMATION

∧ Information ∨ Figure 82 - Information Menu

The information menu contains different options which allow you to view information concerning the current state of this Phontech 6200 unit.

#### 2.4.4.5.1 Number and IP

∧ Number and IP

Figure 83 - Number and IP Menu

ICS #1 IP: 172.16.0.1

Figure 84 - Viewing the Number and IP of this Phontech 6200

The number and IP menu will display which 6200 this is and its IP address.

#### 2.4.4.5.2 Error Information

^ Error ↓ Information

Figure 85 - Error Information Menu

Fan failure 2389 RPM

Figure 86 - Viewing an Error – the Fan Speed is Below the Threshold

The Error Information menu provides a human-readable explanation of errors found in the system, if any. Multiple errors may be displayed and navigated through by using the Up and Down buttons.



2.4.4.5.3 Version

```
Version
Figure 87 - Version Menu
ics 6 200 1.0
- Thu 3 Jan
15:21:57 CET
Figure 88 - Viewing the Firmware Version
```

The Version menu provides the version and build date of the currently running firmware on this Phontech 6200 unit.

#### 2.4.4.6 SETUP

2.4.4.6.1 Adjust Clock and Date Adjust clock and date Figure 89 - Adjust Clock and Date Menu Enter time: 7:21 Figure 90 - Adjust Clock Enter date: 3 Dec 2012 Figure 91 - Adjust Date

The Adjust Clock and Date menu allows you to change the time and date on this Phontech 6200 unit.

2.4.4.6.2 Mark as Good

∧ Mark as good ∨ Figure 92 - Mark as Good Menu ^Are you sure? ∨ >Yes No

Figure 93 - Selecting the Mark as Good Menu



The Mark as Good menu allows you to take a copy of the currently running firmware and configuration and store it as a "Known Good" image in a separate part of the unit. This firmware and configuration can then be restored using the "Revert to Known Good"-menu at a later date. If you choose to create a new "Known Good" image using the "Mark as Good" menu, the 6200 will reboot, and make a copy of the firmware and configuration. After this has completed, the 6200 unit will reboot into the regular firmware.

#### 2.4.4.6.3 FXO Tuning

∧ FXO tuning ✓ Figure 94 - FXO Tuning Menu

*Note:* This sub menu is not available on the Storage units as they do not have any line modules.

The FXO Tuning menu allows you to automatically tune several parameters related to the FXO modules installed in your system. The tuning procedure is designed to help you reduce or eliminate unwanted echo that may occur when connecting to other telephony systems. Please note that the tuning procedure will cut off ongoing calls on the unit.

To start the tuning procedure, select the "FXO tuning" option. In order for the tuning procedure to work, you must supply a digit which will clear the dial-tone on the unit at the other end.

## ∧Enter digit

# Figure 95 - Entering a single digit to stop the dial tone

The tuning procedure will tune each port of every FXO module that is installed in the Phontech 6200 unit. This process will take a few minutes. After it has completed, the Phontech 6200 unit will reboot, and the freshly tuned parameters will be applied.

Tuning 14 20% complete

Figure 96 - Tuning in Progress

2.4.4.6.4 Factory Reset

```
∧
Factory reset
∨
Figure 97 - Factory Reset Menu
^Are you sure?
```

v >Yes No

Figure 98 - Selecting the Factory Reset Menu

The Factory Reset function allows you to discard all configuration data and settings stored on the 6200 and restore it to a pristine factory state. Once this has been performed, the Phontech 6200 unit will reboot, and present you with the first run setup wizard.

Jotron AS| Phontech 6200: Installation manual → Installation



2.4.4.6.5 Revert to Known Good

Revert to 👃 known good Figure 99 - Revert to Known Good Menu Are y o u sure? Νo >Yes  $\sim$ Figure 100 - Selecting the Revert to Known Good Menu

The Revert to Known Good function allows you to return to a previously set Known Good checkpoint or, if no such point has been created, to the factory defaults. Upon running this function, the Phontech 6200 unit will reboot and perform the rollback operation. This will take a few minutes. Once this has been completed, the Phontech 6200 unit will reboot again into the Known Good checkpoint. A Known Good checkpoint may be restored multiple times.

## 2.4.4.6.6 Reboot Reboot Figure 101 - Reboot Menu Are you sure? Yes No Figure 102 - Selecting the Reboot Menu

The Reboot function allows you to reboot the Phontech 6200 unit. After the Reboot operation, the Phontech 6200 unit will return to its regular state.





## 2.5 CALL LOGGING WEB INTERFACE

#### 2.5.1 LOGGING ON TO THE CALL LOGGING WEB INTERFACE

The call logging interface can be reached through any modern web browser. First we must locate the address of the storage unit that is currently used for call logging. This address can be found under the Phontech 6200 Storage Settings that is described in chapter 0. The address we are looking for can be found in the "Call logging unit" dropdown box as seen on the picture below.

Amity - migration-manual-writing.icf	provide to the US section (*).		
File Edit Users Classes Groups Trunk L			1 1
• 🖉 🖼 🔚 🔚 🐡 🚟 🦝	6(, 6) 🔊 🍀 🚣 📖 🖡 🖑 🌞 (	ଛ 🏯 🔍 🚺 🖉 榛 🛟 < ➡	
<ul> <li>▶ Classes</li> <li>♥ Users</li> <li>➡ Groups</li> <li>➡ Trunk Lines</li> <li>▶ ▶ Extensions</li> </ul>	ICS 6200 Storage Settings Callogging unit Callogging access control Username admin Password admin Calg internal calls Update user/pin balance even when billing meters are not enabled	Pin numbers           These pin numbers must be entered when dialing a trunk line that has pin access enabled.           Pin         Description	
Filter Type Any			
ICS#1(PBX) ICS#2(Storage)			
	Reset		Save Discard Help

Figure 103 - Location of Selected Storage Unit

You can also find the address of the call logging unit by looking in the Information menu on the front panel display on the physical unit. Click any of the navigation buttons to clear the 'Jotron' logo and click the 'Enter' button when you are at the 'Information' menu item. Then click 'Enter' again on the 'Number and IP' item. The address will now be displayed on the screen. This is also described in chapter 2.4.4.5.

Once we have found the address we can access the call logging web interface by entering this address into a modern web browser. You will be greeted with a username and password prompt where you have to enter the username and password that has been configured in the Phontech 6200 Storage Settings. The default username and password are both "admin".

If the correct username and password has been entered, you will be directed to the welcome screen for the web interface as shown below.





This page displays a short description of the different pages that can be accessed on in the web interface.

#### 2.5.2 USERS / PINS PAGE

The Users / PINs page displays a list of all the users and PINs in the system. This is also the gateway to see call records for individual users or PINs.

#### 2.5.2.1 USERS

The first part of the page lists all the users (a user is a single extension) that are configured on the system as well as the balance on their current account. The list can be navigated in by either using the search box in the top right of the list or by using the arrows or page numbers at the bottom right of the list.

All of the users in the user list are automatically configured when users are added or removed through the configuration application for the entire system. It is not possible to add or remove users by other means. The user balances are updated automatically if trunk lines on the system are configured to use extension based balance tracking.

The right-most column in the user list is a button that will reset the given user's balance back to 0. At the bottom of the table there's a button that will reset all of the users' balances with a single click.

To see detailed call reports for a single user, click on the extension for that particular user. This will open the page for this individual user which is further explained in chapter 2.5.3.



Номе   Users / Pins   F	Reports   Payment	BILLING RATES   SET	TINGS				
ER LIST							
st of all users of the system and their o k on a user to see a detailed call log f			e right column.				
er accounts are automatically created	based on the users configured in t	he system.					
how 10 ▼ entries				Search:			
Extension	<b>A</b>	Description	$\stackrel{\wedge}{\nabla}$	Bal	lance 🔶		÷
<u>101</u>	Analog 101				19.83	8	
<u>102</u>	Analog 102				0	8	
<u>103</u>	Analog 103				100	8	
<u>104</u>	Analog 104				0	8	
<u>105</u>	Analog 105				20	8	
<u>106</u>	Analog 106				0	8	
<u>107</u>	Analog 107				-0.32	8	
<u>108</u>	Analog 108				0	8	
<u>109</u>	Analog 109				10	8	
<u>110</u>	Analog 110				0	8	
howing 1 to 10 of 38 entries				Previous 1 2	3	4	Next
				Reset all use	r balanc	:es 🕴	

#### 2.5.2.2 PINS

Below the user list, we find the PINs section. This lists all of the PINs that have been configured for the system. These PINs must be configured from the configuration application as described in chapter 0. This list can be navigated in the same way as the user list by either searching in the upper right corner or using the page numbers and buttons at the bottom right corner of the list.

The PINs list contains a button in the right-most column that will reset the balance back to 0 for the given PIN. At the bottom of the table there's a button that will reset the balance of all PINs with a single click.

To see the detailed call log for a given PIN click on the PIN number in the left most column. This will show the individual PIN page which is further explained in chapter 2.5.3.



				Reset all user balances 🕄
INS				
		em and their current balance can be viewed be for this pin. A pin's balance can be reset by clic		
ins can be added or remo	wed from the Phonte	ch 6200 Configuration Application under the Si	orage Configuration window.	
Show 10 🔻 entries				Search:
Pin		Description	Å	Balance 🌲 🛛 🜲
1234	TEST	1		90.75 🙁
<u>5678</u>	Test 2			20 🙁
Showing 1 to 2 of 2 entrie	s			Previous 1 Next
elect what you want to exp	iort			
lick to export a list of all us	sers or pins and their	current balance to a file		
Export PDF Exp	ort XML Expo	rt CSV		
IPORT				
lick to import user and pir he format of these files m		format.		
Import XML				
		Copyright© 20	14 Jotron A/S	

Figure 106 - Users / Pins page – PINs and Export/Import

## 2.5.2.3 EXPORT OF USERS AND PINS

The export options are located the bottom of the Users / PINs page as seen in Figure 106. You can either export a list of current user balances or a list of current PIN balances. The list to export can be selected with the "Users" and "Pins" buttons in the Export section. The balances can be exported as PDF, XML or comma separated values (CSV) by clicking the corresponding button in the Export section. When the button is clicked, a download dialog with the selected format will appear and you can select where to save the exported data.

#### 2.5.2.4 IMPORT OF BALANCES

It is also possible to import balances into the call logging system. By clicking the "Import XML" button in the Import section you will be presented with an open file dialog where you can select the file with the balances to import. The format of the file must be XML and in the same format as given by the "Export XML" button. Note that this will change the balances of all the users and pins that are located in the import file. This operation cannot be undone.





#### 2.5.3 INDIVIDUAL USER AND PIN PAGES

#### 2.5.3.1 USER PAGE

The detailed user page displays the detailed call logs for a given user. The current balance of the user is displayed at the top of the page.

The list will show all calls made by this user, sorted by date. The list can be navigated with the previous and next buttons at the bottom right of the list.





The columns in the call log are as follows:

- Date/Time The date and time when the call was initiated
- Source -The user that initiated the call. This will always be the user we are looking at.
- **Destination** The number that was dialed.
- External The actual number that was dialed over the trunk line.
- Duration- The number of seconds the user was in the call.
- **Billed** The number of seconds that should be billed for the call. This does not include the time taken by the user to dial or enter a pin number.



- **Cost** The cost of the call. This is calculated by multiplying the billed seconds by the correct rate for the destination.
- **Type** The type of record. This can either be 'Billing' or 'Documentation'. Note that calls marked as 'Documentation' will have billing seconds set to 0 as they are only present to document the call, not bill it. Those calls include calls between users inside the system and incoming calls if enabled through the Phontech 6200 Storage Configuration.

Under the call log list there's a filter button so you can change if the log should display billed calls only or include the documentation lines as well. By default it will only display the billed calls.

At the bottom of the page we have the export functions. Here you can export a report with the calls that this user has made. There are two pre-determined and one customizable option for the report period.

- **Previous month** This will take the previous month and generate a report of all the calls for that month. If the current month is September, it will generate a report from 1<sup>st</sup> of August to the 31<sup>st</sup> of August.
- **One month prior** This option will take us one month back from the current month. So if the current date is 15<sup>th</sup> of September it will generate a report from the 15<sup>th</sup> of August to the 15<sup>th</sup> of September.
- **Custom** If none of the two other options match you can choose this to input a start and end date manually.

For the two pre-determined options you can always see the report dates that will be used in the input boxes underneath the options. These will change as the different options are selected.

To actually export the report you have to click on one of the three export buttons at the bottom to choose the format which you want for your report. The available formats are "PDF", "XML" and "CSV" (comma separated values).

#### 2.5.3.2 PIN PAGE

The pin page is very similar to the User page described in chapter 2.5.3.1. The call log list is the same as in the User page, but note that it now displays all calls where the selected PIN number has been used. This means that the *Source* field will not always be the same as the PIN number could have been used from multiple phones. The balance associated with the PIN can be found at the top of the page.

The export functions for the PIN is the same as for the users. Choose the period for the report and click the format button of your choice and you will be presented with a download dialog for the report.



lome   Users/Pi	ns   Reports	Payment   B	ILLING RATES   SETTI	NGS			
1234							
rent balance: 90.75							
LL LOGS							
ow is a list of all the calls	that has been made	with this PIN. Sorted by the n	ewest call first.				
now 10 🔻 entries							
Date/Time	Source	Destination	External	Duration	Billed	Cost	Туре
2014-08-13 15:44:52	102	8402	402	26s	15s	0.25	Billing
2014-06-25 13:29:13	101	8402	402	24s	7s	0.12	Billing
All records Billed o	nly ged calls made with t	his pin number					
n to expert a net of an rogg	e month prior (	Custom					
revious month One							

#### 2.5.4 **REPORTS PAGE**

The reports page will show all call records logged by the system. The records are sorted by date. The list can be navigated with the buttons in the bottom right corner of the list.

The columns in the call log are as follows:

- **Date/Time** The date and time when the call was initiated
- **Source** -The user that initiated the call.
- **Destination** The number that was dialed.
- External The actual number that was dialed over the trunk line.
- **Duration** The number of seconds the user was in the call.
- **Billed** The number of seconds that should be billed for the call. This does not include the time taken by the user to dial or enter a pin number.
- **Cost** The cost of the call. This is calculated by multiplying the billed seconds by the correct rate for the destination.
- **Type** The type of record. This can either be 'Billing' or 'Documentation'. Note that calls marked as 'Documentation' will have billing seconds set to 0 as they are only present to document the call, not bill it. Those calls include calls between users inside the system and incoming calls if enabled through the Phontech 6200 Storage Configuration.
- **Pin** If a PIN was used, it will be displayed in this column.



	NS   REPORTS	B PAYMENT	BILLING RATES	Settings				
ORTS								
	ie calls that has bee	n made on the system so	orter by the newest call fi	rst.				
iow 10 • entries							-	
Date/Time	Source	Destination	External	Duration	Billed	Cost	Туре	Pin
2014-08-13 15:44:52	102	8402	402	26s	15s	0.25	Billing	1234
2014-07-15 12:02:41	107	8402	402	45s	19s	0.32	Billing	
014-07-03 14:00:38	101	8402	402	18s	10s	0.17	Billing	
014-06-25 13:36:54	101	8402	402	40s	26s	0.43	Billing	
014-06-25 13:33:40	101	8402	402	12s	5s	0.08	Billing	
014-06-25 13:31:30	101	8402	402	14s	7s	0.12	Billing	
2014-06-25 13:29:13	101	8402	402	24s	7s	0.12	Billing	1234
	given time period.	Custom						
rt date: 01/07/2014								
i date: 31/07/2014 Only export I	billed							

The list will by default only show billed entries. If you want to see all the logged calls you can change this setting by clicking the 'All records' button underneath the list.

The export functions work the same way as the export described in chapter 2.5.3.1 and 2.5.3.2. Select the period you want a report for and click one of the buttons at the bottom to get the exported report in the desired format.

#### 2.5.5 **PAYMENT PAGE**

The payment page is used to add credits to user and PIN accounts. To add to the balance of a user or a PIN, select the desired one from the two lists on this page by clicking the check boxes in the left-most column. After the user or PIN has been selected you can enter the number of credits that you want to add in the 'Amount to add' spin box at the bottom of the page. Click the 'Process' button to finish the balance update. Multiple users and pins can be updated in a single action by selecting additional users or PINs from the lists. The lists can both be navigated with the buttons and page numbers at the bottom right of each list and the selections from previous pages will remain active as a new page is viewed. The search box in the top left of each list can also be used to filter the lists.

If pre-paid billing meters are active on trunk lines the users and/or PINs in use must have a positive balance equal to that of at least 1 minute worth before they can be used to access a trunk line.







#### 2.5.6 BILLING RATES PAGE

The billing rates page is where we can configure the cost rates for numbers dialed over trunk lines. You can match explicit numbers or create patterns for matching number ranges. The currently configured billing rates can be found in the list at the top of this page. The list can be navigated with the buttons and page numbers in the bottom right corner of the list.

To remove a configured rate, select it by clicking the check box in the left-most column next to the rate you want to remove and then click the 'Delete selected' button. Multiple rates can be selected for one delete operation.

Note that any change to the configured rates will not affect already logged calls. Only new calls made after the change to the rates will be affected.



Home   Users/Pins   Reports	Payment   Billing Rates   Settings			
ILLING RATES				
'he billing rates used when dialing out over trunk lin haracters 'X' or '_'. An 'X' matches any number and a	ies can be configured here. The rates match the external number called through a trunk line a '_' matches any numbers after and including the the underscore.	e. Patterns can be creat	ed with th	e
Show 10 • entries		Search:		
<b>A</b>	Extension Pattern	\$	Credit	s/Min 🕴
default				1
12X_				50
4X_				100
Showing 1 to 3 of 3 entries		Previous	1	Next
Delete selected				
atterns can be created with the characters X' or '_'. <b>camples</b> • To match the numbers 100-199 the expressi	An 'X' matches any number and a '_' matches any numbers after and including the the und on 1XX can be used. lowed by more numbers the expression 0047X_ can be used	lerscore.		
Patterns can be created with the characters X' or '_'. <b>Examples</b> To match the numbers 100-199 the expressing the output of the texpressing with 0047 follows the texpressing with 0047 follows the texpression of te	on 1XX can be used.	lerscore.		
atterns can be created with the characters X' or '_'. xamples  To match the numbers 100-199 the expression To match any numbers starting with 0047 foll Pattern: Rate: O Add rate	on 1XX can be used.	lerscore.		
Patterns can be created with the characters X' or '_'. xamples  To match the numbers 100-199 the expression To match any numbers starting with 0047 foll Pattern: Rate: O Add rate  XPORT	on 1XX can be used.	lerscore.		
Patterns can be created with the characters X' or '_'. xamples  To match the numbers 100-199 the expression To match any numbers starting with 0047 foll Pattern: Rate: O Add rate  XPORT	on 1XX can be used.	lerscore.		
Patterns can be created with the characters X' or '_'. xamples  To match the numbers 100-199 the expression To match any numbers starting with 0047 foll Pattern: Pattern: Add rate  Click to export all the configured rates Export XML Export CSV	on 1XX can be used.	lerscore.		
Patterns can be created with the characters X' or '_'. xamples  To match the numbers 100-199 the expression To match any numbers starting with 0047 foll Pattern: Pattern: Rate: 0 Add rate  Click to export all the configured rates Export XML Export CSV	on 1XX can be used.	lerscore.		
Examples  To match the numbers 100-199 the expression To match any numbers starting with 0047 foll Pattern: Rate: O Add rate  EXPORT Click to export all the configured rates	on 1XX can be used.	lerscore.		

The 'default' rate will be used when no other billing rate can be matched. By default it is set to 1 credits pr. minute, but it can be changed by entering 'default' as the pattern when you add a new rate.

To add a new rate you enter the pattern you want to match in the 'Pattern' input box in the 'Add billing rate' section. You then enter the desired rate in the box below it. This rate will be the cost of a call pr. minute.

If you want to match a single number simply enter the number in the pattern field. If you want to match multiple numbers, such as a prefix or a range of numbers you have to use the pattern matching approach. Patterns can be created using the 'X' and '\_' characters. Entering 'X' will match any number, while '\_' will allow the previous number or match to be repeated multiple times. This may be used to match numbers of arbitrary lengths. Some examples are shown below.



#### Examples

- To match the numbers 100-199 the expression 1XX can be used.
- To match any numbers starting with 0047 followed by more numbers the expression 0047X\_ can be used.
- To match any number that starts with a one and is at least 3 digits long you can use the pattern '1X '.

The billing rates can be exported in XML and CSV format by clicking on one of the export buttons at the bottom of the page. Rates can also be imported from files in the same XML format as the exported XML format. The import function will only add additional or change existing rates. It will not delete any configured billing rates.

#### 2.5.7 SETTINGS PAGE

In the 'Settings' page you can get an overview of the system as well as perform backup and maintenance. You can see the number of records still available for storage in the system as well as the current firmware version.

PHONTECH 6200 CALL LOGGING UNIT
Home   Users / Pins   Reports   Payment   Billing Rates   Settings
INFORMATION
Free space shows how many records the call logging unit can hold before some needs to be deleted. Space should be freed if the indicator turns red.
Free space:
299844 / 300000 Records free
Firmware version: ics6200_1.2.1.2 Thu Sep 4 11:07:03 CEST 2014
Maintenance
Deleting old reports will free up space on the device.
Delete all reports before: 15/09/2014 Delete
BACKUP AND RESTORE
The backup will contain the configured billing rates and user/pin balances. It will not contain actual billing records. Restoring a backup will delete all content and restore the records found in the backup file.           Backup         Restore           Backup         Restore
A Factory reset will delete all billing and call logging related content on the device.
Factory Reset
Copyright © 2014 Jotron A/S
Figure 111 - Settings Page



To free storage space, it is possible to remove older records stored in the system. This is done by specifying a date that you want to purge records from in the 'Maintenance' section. When you have picked a date and clicked the 'Delete' button it will delete all records that are older than the given date. Note that this operation is irreversible.



The backup and restore functions will export any rates, settings and balances into a file that can later be restored by the 'Restore' function. The actual call records are not stored in the file and cannot be restored later.

You can also perform a factory reset by clicking the 'Factory reset' button at the bottom of the page. This will delete all information visible in the web interface such as billing rates, balances and call records.



## **3 WALL MOUNTED ENCLOSURES AND TYPICAL CONFIGURATIONS**

## **3.1 6203 6U ENCLOSURE**

6203 6U wall mount enclosure complete with rails and terminals. Will accommodate up to 2 Phontech 6200 and two patch panels. A typical configuration is displayed below, 6203 with two Phontech 6200 units. The enclosure comes with a transparent protective front cover. Cable entry in the bottom. This enclosure is limited to low weight units, and is typically used for PABX only applications.



6203 Terminal arrangement





#### Drill template 6203





## 3.2 6204 18U ENCLOSURE

6204 18U wall mount enclosure complete with rails and terminals. Similar to 6203. Transparent protective front cover. Cable entry in the bottom. Used for larger PABX installations. A typical configuration is displayed below, accommodating 6 Phontech 6200 units.





## 3.3 15U PABX/PA/GA COMBINATION ENCLOSURE

Three-part 15U wall-mounted enclosure. When combining the PABX with PA/GA equipment or amplifiers this enclosure style is used. Solid top and cable entry brush insert at bottom.





## 4 INTERCOM UNITS

## 4.1 GENERAL CONFIGUTRAION INFORMATION

All intercom units (DICS 6111, 6112, 6113, 6114, 6123 and 6124) are equipped with an internal DIP-Switch block containing 8 switches. These configure some individual settings for each unit:

DIP Sw	Description
1	Activate Backlight DIMMER function in the DICS 6123
2	For future use
3	For future use
4	Disable OFF HOOK sensor (ACT key is the only way to activate the unit)
5	For future use
6	For future use
7	For future use
8	For future use

## 4.2 DICS 6110 ACCOMODATION UNIT







- Built- in WP loudspeaker.
- Hands free, duplex communication.
- Privacy switch.
- Telecom standard alphanumeric keypad.
- Manual PTT (push-to-talk) key.
- ACT key. (line active)
- 3 direct access programmable keys. (M1-M2-M3)
- 10 pcs. accessible programmable keys. (0-9)
- Volume control key (VOL) with override (important message priority)
- Program key. (P)
- Connection: One Pair line feed
- Desk or bulkhead mounted.

Operation voltage 37	7VDC provided by line
Current drain	70 mA max, provided by line
Sound pressure level	80dBA@1m typical
Weight	1.0 kg



External connections DICS 6110







## 4.3 DICS 6111, WP UNIT WITH HANDSET



- Bulkhead mounted.
- Output for external loudspeaker.
- Hands free (requiring external loudspeaker), duplex communication.
- Telecom standard alphanumeric keypad.
- Rugged handset of WP type.
- Manual PTT (push-to-talk) key.
- ACT key. (line active)
- Direct access programmable keys. (M1-M2-M3)
- 10 pcs. accessible programmable keys. (0-9)
- Volume control key (VOL) with override (important message priority)
- Program key. (P)
- Call signal relay. (For external signal organ, flashlight, siren etc.)
- Connection:
  - Handset only: One Pair line feed connection
  - External loudspeaker or relay for external signal device: Line + 24V DC



Operation voltage37VDC provided by lineCurrent drain70 mA max, provided by line

External loudspeaker and relay function requires an additional power input. Power requirement, additional input 1A/24VDC External loudspeaker: Max power 10W Impedance 20 ohms

External signal organ current capabilities: 24 VDC: max. 5A 115 VAC: max. 6,3A 220 VAC: max. 5A Weight 1.0 kg. Ingress protection IP 65

## 4.4 DICS 6112 WEATHERPROOF UNIT





- Bulkhead mounted.
- For external loudspeaker.
- Hands free (requiring external loudspeaker), duplex communication.
- Telecom standard alphanumeric keypad.
- Manual PTT (push-to-talk) key.
- ACT key. (line active)
- Three direct access programmable keys. (M1-M2-M3)
- 10 accessible programmable keys. (0-9)
- Volume control key (VOL) with override (important message priority)
- Program key. (P)
- Call signal relay. (For external signal organ, flashlight, siren etc.)
- Connection:
  - o Line
  - 0 24V DC

Operation voltage37VDC provided by lineCurrent drain70 mA max, provided by line

External loudspeaker and relay function requires an additional power input. Power requirement, additional input 1A/24VDC External loudspeaker: Max power 10W Impedance 20 ohms

External signal organ current capabilities:

24 VDC: max. 5A 115 VAC: max. 6,3A 220 VAC: max. 5A Weight 1.0 kg. Ingress protection IP 65



External connections DICS 6111/6112







## 4.5 DICS 6113 AND DICS 6123 FLUSHMOUNTING UNIT



- Flush-mounting.
- Built-in WP loudspeaker.
- Output for external loudspeaker.
- Hands free, duplex communication.
- Telecom standard alphanumeric keypad.
- Manual PTT (push-to-talk) key.
- ACT key. (line active)
- Three direct access programmable keys. (M1-M2-M3)
- 10 accessible programmable keys. (0-9)
- Volume control key (VOL) with override (important message priority)
- Program key. (P)
- Call signal relay. (for external signal organ, flashlight, siren etc.)
- DICS 6123 only; backlighting with dimmer.
- Connections:
  - Handset only: One Pair line feed connection
  - $\circ$  External loudspeaker or relay for external signal device: Line + 24V DC
  - DICS 6123 Backlight: Line + 24V DC

Operation voltage37VDC provided by lineCurrent drain70 mA max, provided by lineSound pressure level80dBA@1m typical


Backlight dimmer 5 steps : 10mLux – 1 Lux

External loudspeaker and relay function requires an additional power input. Power requirement, additional input 1A/24VDC External loudspeaker: Max power 10W Impedance 20 ohms

External signal organ current capabilities:

24 VDC: max. 5A
115 VAC: max. 6,3A
220 VAC: max. 5A
1.5 kg.
IP 44

#### External connections DICS6113/6123



Jotron AS| Phontech 6200: Installation manual → Intercom units





#### 4.6 DICS 6114 WP PORTABLE UNIT



- Telecom standard alphanumeric keypad.
- 10 m. cable and connector.
- Manual PTT (push-to-talk) key.
- ACT key. (line active)
- Three direct access programmable keys. (M1-M2-M3)
- 10 accessible programmable keys. (0-9)
- Volume control key (VOL) with override (important message priority)
- Program key. (P)
- Connection: Pluggable one pair line feed
- Bulkhead mounting.

Jotron AS| Phontech 6200: Installation manual → Intercom units



Operation voltage	37VDC provided by line
Current drain	70 mA max, provided by line

Weight Ingress protection 1.5 kg. IP 65







- Telecom standard alphanumeric keypad.
- 10 m. cable and connector.
- Manual PTT (push-to-talk) key.
- ACT key. (line active)
- Three direct access programmable keys. (M1-M2-M3)
- 10 accessible programmable keys. (0-9)
- Volume control key (VOL) with override (important message priority)
- Program key. (P)
- Connection: Pluggable one pair line feed
- Bulkhead mounting

Operation voltage37VDC provided by lineCurrent drain70 mA max, provided by line





Weight1.5 kg.Ingress protectionIP 65

# 4.8 **TYPE 9011 PLUGBOX (FOR DICS 6114)**



- Receptacle with cover.
- Rugged plastic box.
- Bulkhead mounting



DICS 6114 WP PORTABLE UNIT

External connections DICS 6114/6114 and 9011





#### 4.9 TYPE 6035 HEADSET WITH HOOKSWITCH



For use with 5111-H and 6112

- High comfort headset with boom microphone and hook-switch.
- Excellent attenuation at low and high frequencies with maximum comfort for continuous use.
- Ideal in severe noise environments.
- Folds to compact size for easy storage.
- 10 meter cable.
- Noise cancelling microphone.

Jotron AS| Phontech 6200: Installation manual → Intercom units



# **5 ANALOG TELEPHONES**

## 5.1 EUROSET 5005



- DTMF analogue telephone
- Name keys \_
- 10 speed dial -
- Redial key -
- Mute key -
- Desk / Wall mounting \_

WALL



#### 5.2 FEP 2010 FLUSHMOUNTING TELEPHONE



- DTMF analogue telephone
- Telecom standard keypad
- R-key (flash)
- Backlight (optional)
- Call signal relay (for external signal organ, flashlight siren etc.) (optional)
- Flush mounting





# 5.3 DICS 5113/5123 FLUSHMOUNTING TELEPHONE



- DTMF analogue telephone
- Loudspeaking/handset operation
- 3 Speed dial keys
- Relay for external signal device Max 5A
- Ext. loudspeaker connection
- Console flush mounting
- IEC 60945 Approved
- 5123 only: Backlight /dimmer control





#### 5.4 DICS 5111. FERNTEL 3 RUGGED INDUSTRIAL TYPE TELEPHONE



- Housing: Polycarbonate / Colour: Black
- Handset retaining mechanism
- Protection degree: IP65/IEC 529
- Receiver volume can be boosted by 6 or 12 dB(A)
- Ringer output: approx. 96 dB(A) at 1 m distance
- Temperature range: -25°C up to +60°C
- Desktop or bulkhead mounting





#### 5.5 DICS 5111-H WITH HEADSET INTERFACE



- Housing: Polycarbonate / Colour: Black
- Handset retaining mechanism
- Protection degree: IP65/IEC 529
- Receiver volume can be boosted by 6 or 12 dB(A)
- Ringer output: approx. 96 dB(A) at 1 m distance
- Temperature range: -25°C up to +60°C
- Desktop or bulkhead mounting
- Connection for 6035 headset
- 24VDC power supply required





### 5.6 EX RESISTTEL TELEPHONE FOR HAZARDOUS AREAS



#### Bulkhead mounting

- Types of protection:
  - II 2 G EEx em[ib] IIC T5 / II 2 D IP66 T100°C / -25°C<=Ta<=60°C</li>
  - II 2 G EEx em[ib] IIC T6 / II 2 D IP66 T80°C / -25°C<=Ta<=40°C
- Housing Glass fibre reinforced polyester
- Certified for dust and gas atmospheres
- Display 2 lines; alphanumerical / multiple languages
- Telephone directory
- Hands free operation
- Impact protection IK 09
- Integrated adjustable stabilizer bracket
- Operations temperature -25°C to +60°C
- Adjustable receiver volume (7 steps)
- Max audio level approx. 90 dB(A)

Jotron AS| Phontech 6200: Installation manual → Analog telephones



- Stainless steel (V4A) keypad and steel armored handset cord with snap-protection

## 6 IP TELEPHONES

#### 6.1 SNOM 300



Basic office IP telephone

- Two line display
- Caller ID (Name / Number)
- Programmable function keys
- Hands free operation
- 2 Eth ports (internal switch)
- PoE / External supply
- SIP Client
- Headset connection
- Intercom operation





#### 6.2 FERNTEL IP



Industrial Phone for Indoor and Outdoor Environments, IP 65

- Display
- Caller ID (Name / Number)
- Caller ID (Name / Number)
- SIP client
- Desk / Wall mounting
- PoE / External supply
- Comes in Ex approved type (Zone 2/22)



#### 6.3 RESISTTEL IP



Industrial Phone for Indoor and Outdoor Environments, IP 66

- Display
- SIP client
- Hands free operation
- 2 Eth ports (internal switch)
- Desk / Wall mounting
- PoE / External supply
- Optional Relay output





# 7 NETWORKING EQUIPMENT

#### 7.1 SF-300



#### 24 port Ethernet switch with PoE

The SF-300 Ethernet switch with Power over Ethernet is required for the connection of IP telephones. Connect the IP telephones to the SF-300 switch using Cat5e patch panels. The SF-300 is in turn connected to the Phontech 6200's Ethernet connection. Power is supplied from the switch to the IP telephones over the Ethernet cable.





## 8 ACCESSORIES

## 8.1 50 PORT TELEPHONY PATCH PANEL

The 50 port Cat3 patch panel can be used when connecting FXS, FXO, UPN and E&M lines to the Phontech 6200 when structured cabling is used in the installation. This drawer style patch panel allows for easy access during termination of the field cable.



## 8.2 24 PORT CAT5E PATCH PANEL

The 24 port Cat5e patch panel is intended to be used for Ethernet lines, but may also be used for FXS, FXO, UPN and E&M lines.







## 8.3 6205 48 PORT PATCH PANEL FOR SHIPS CABLE.

The Phontech 6200 is primarily designed for use with structured cabling. When using traditional ships cable, the 6205 patch panel is used together with the termination module. The patch panel is connected to the termination module using a 25 pin DSUB cable.











#### 8.4 Y-CABLE FOR 6205 PATCH PANEL



When using this patch panel in combination with the E&M line board, and the keying inputs or outputs are used, a special Y-patch cable is required, Jotron item no: 18472.

The black RJ-45 jack is connected to the E&M port on the Phontech 6200 unit, the red RJ-45 jack is the audio line and the yellow RJ-45 jack is the key IO. The red and yellow jack is inserted in the 6205 patch panel at the desired locations.







# **CONTACT INFORMATION**

Jotron AS P.O.Box 54 3281 Tjodalyng Norway Tel: +47 33 13 97 00 Fax: +47 33 12 67 80 sales@jotron.com

#### Jotron UK Ltd. Crosland Park Cramlington NE23 1LA United Kingdom Tel: +44 (0) 1670 712000 Fax: +44 (0) 1670 590265 sales@jotron.com

#### Jotron Asia Pte. Ltd.

19 Loyang Way Changi Logistics Centre Rear Office Block 04-26 Singapore 508724 Tel: +65 65426350 Fax: +65 65429415 sales@jotron.com Jotron USA, Inc. 10645 Richmond Avenue, Suite 170 Houston, TX 77042 USA Tel: +1 713 268 1061 Fax: +1 713 268 1062 sales@jotron.com



