



EN

Operation and Installation Guide Programming Software



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Documentation Conventions

Tips, Notes, Cautions, and Warnings



Important Notes - Information for successful operation and programming. Also tips and shortcuts can be included here.



Caution - These caution the operator that physical damage to the program or equipment might occur.

Warning - These warn of the possibility of physical damage to the operator.

Action Icon Legend

These symbols signify mouse operations:



Double-click the left mouse button.



Click the left mouse button once.

Click the left mouse button once and hold.



Click the right mouse button once.

Press a key.

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1.0 Getting Started

1.1 Parts List

Table 1: Parts List				
Qty.	Aty. Description Part Number			
1	D6600 CD-ROM			
1 D6600 Receiver				

1.2 Network Communications

The D6600 Central Station Communications Receiver/Gateway NetCom system supports data network communications. NetCom allows the D6600 receiver to connect to Ethernet networks, and process messages both to and from most networks in user datagram protocol (UDP) or internet protocol (IP). Use a COM4 or a COM1 connection from the D6600 receiver to connect to the network adapter. Reports from alarm control panels from the PSTN network, or other data networks can be sent to the central station automation software through a local-area network (LAN) or wide-area network (WAN). Alarm control panels status and connection can be monitored over the network. Update or upgrade the D6600 through the network connection. Remote program the D6600 through the D6200 software. Refer to the following documents about network communications and their installation requirements.

- NetCom System Guide (P/N: 4998122712)
- D9133TTL-E Installation Guide (P/N: 4998122717)
- C900TTL-E Installation Guide (P/N: 4998122718)
- DX4020 Installation Guide (P/N: 49522)
- D6680 Network Adapter Installation Guide (P/N: 4998138732)
- DeviceInstaller Operation and Installation Guide (P/N: 4998138688)

Figure 1: D6600 NetCom System Connection Diagram - C900TTL-E and any Control Panel



- 1 Any manufacturer's control panel
- 2 C900TTL-E Dialer Capture module
- 3 Host PC running D6200 Programming Administrative Software
- 4 Ethernet hub
- 5 D6680 Network adapter
- 6 D6600 Central Station Receiver (CSR)
- 7 Connection Control panel telco jack to C900TTL-E "Panel" jack
- 8 Connection C900TTL-E Ethernet jack to Ethernet hub
- 9 Connection Host PC network interface card (NIC) to Ethernet hub
- 10 Connection Ethernet hub to D6680
- 11 Connection Ethernet hub to second D6680
- 12 Connection D6680 to D6600 COM4 port
- 13 Connection Second D6680 to D6600
- COM 1 port (optional)



12

24

3. Installation 2.0 D6600CDv1.xx (D:) In a network configuration, if both the Artest - -+ A P P & Miller & A & K X D6200 and D6202 are installed on the ٠ alersi (201 same PC, you can only run one - Name application at a time. I read no tot Redwork Externate Modules D6600CDv120 (D:) Diside Documentation Di202 Automation Save and back up the different databases Select an Bers to view its Di200 Plogramma (NetCom Account, Dialed Number Identification Service (DNIS), and Caller Capacity: 703 HB ID) and configurations (CPU, Line, and Used 112 M 1 Pres: 580 MB Network) after installing the software. Load these files back into the receiver. *[4] 8.66.60 Thy Compo 1. 4. 2 D6200 Programmer 2D6700 LI Cheerin 3 后见×4 D REND D D-DAZIE Program Ban Fran 000V3.00.408 17.040 00412:24.46 3 9(25)2 No Folder 34.5000412-32-99 those is D6200 Programmer best along Ny Securet (Phy Consulation BALERN - LONDARE 5. D6200 V1.xx.exe Welcome to the InstallShield Wizard for D6200 The Installighted Moved TMI with the motal count or your contractory. To continue, click Rent 2. My Computer THE R Ind Distant Links + 1 -Shokes G 12 62 Xm Dh. • 24 Al Hy Computer newsitive Disk (ALC) Carr Contractione Volume (C.O. Corpact Dec (C) 涌 6. My Computer Next > Deleved on Tochhol (H) telect air bes to uses its descention-"Prints on "pipelars" (11) Cata on Torrist? (2) the files and fullers on your Riddelighein dt in h epointel (mo InstallShield Wigard Complete Clate on Toine2 (L.) See also: "Schema en Tplatti (Pil) integrised installing 0.9200 on your comp T in fatiation (n.) Hy Documento Hy Madwark Places A Cardrid Pagel Network and Dali-up Connections Hy Campular

7.

Finish

LI obsettio

3.0 Operation

The D6200 allows the user to view, change, upload and download all of the D6600's programming parameters via a network OR the receiver's and the host's serial COM ports. Through the D6200 software, the user can:

- Edit CPU and line card parameters.
- View the status of all accounts in the databases.
- Add, edit, or delete accounts.
- Configure network operations.

The D6600 programming is loaded from four different files:

- CPU/Host/Network Configuration File
- Line Card Configuration File
- NetCom Account Database File
- DNIS Account Database File OR Caller ID Database File

These four files can be modified, uploaded, or downloaded separately.

The version numbers used in the screen shots throughout this manual are for demonstration only. They may differ from the software version numbers you have.

3.1 Log On

A window appears prompting the user for the correct User ID and Password necessary to log on again.



- 1. Enter 6200 (default User ID).
- 2. Press [TAB].
- 3. Enter 6200 (default User Password).

3.2 Environment Option

1.

With the D6200, you can choose between the 6600 mode and 6100 mode.













3.3 Connection Settings

The connection settings allows for the configuration of communication parameters for the D6200 to communicate with

• The D6600 Receiver

1.

 Network devices (C900TTL-E, D9133TTL-E, DX4020 or D6680)



2. • RS-232 comport connection

(Refer to Section 3.3.1 RS-232 Connection) or

TCP/IP network connection

(refer to Section 3.3.2 Network Connection)

3.3.1 RS-232 Connection



Set Menu Item 6.1.5 to 0 (disabled) in the receiver to communicate using the COM4 for RS-232 direct connection.

Table 2: RS-232 Settings

COM port	COM1 to COM8
Data bits select	8 bits
Parity check select	None, Odd or Even
Stop bits select	1 bit or 2 bit
Baud Rate Speed	38400

Figure 3: D6200 RS-232 Connection Settings

mection Mode 15-232 comport	connection	C TOPP N	dwork cosnection
6	Local PC RS-2	S2 comport set	lings
COM port se P COM1 C COM2 C COM2	C COM3	C COMS C COMB	C COM7 C COM8
(* 8 bits Party check (* None Stop bits sat (* 1 bit	saleit Cott C ett C 2 lei	Even	
8a.	at Note Speed	38480 1	
OK	1		Cancel

3.3.2 Network Connection



Set Menu Item 6.1.5 in the receiver to 1 (enabled) to communicate using the TCP/IP network connection if the D6680 is connected to COM4.

Set Menu Item 6.2.5 in the receiver to 1 to communicate using the TCP/IP network connection if the D6680 is connected to COM1.

At D6600:

1. Access receiver programming menus.

1 EVENT DATABASE Welcome Manager...



Enter the IP address and port number of the 15. connected D6680.

Primary Receiver		
Receiver IP Address	R	ACR

16. If a backup receiver is used,



Enter the IP address and the port number of the backup receiver.

er Part

Backup Receiver	
Receiver IP Address:	Receiver Port

The local PC IP address cannot be changed (the software detects it during installation).

17. To use encryption,



Set the 16-byte key string to the default value:





D6200 Software Status Bar Figure 4:





If the PC running the D6200 software is connected to a NetCom naming convention (NNC) network, the server could change the IP address. If this happens, the D6200 software cannot communicate with the receiver until the Receiver is programmed with the new assigned PC IP address. To avoid this, use a static IP address for the PC running the D6200 software.



Make the encryption key string the same for all devices (D6680, D6600, D9133TTL-E, DX4020, C900TTL-E, D6202, and D6200). Program the devices in the following order:

- D6202 (Automation if used) 1.
- 2. D6680
- 3. D6600
- 4. D9133TTL-E, DX4020, and C900TTL-E
- 5. D6200 (last)

3.3.3 Password Protection

The D6200 Programming Software is password protected.

To log in, the user must enter the correct User ID and Password upon opening the D6200 software. Only one user can be logged on at a time.

To log off, select **Administration** \rightarrow **Log Off**. A window pops up prompting the user for the correct User ID and Password necessary to log on again.

The D6600 offers several passwords for multiple users. Each level has certain restrictions (refer to *Table 3*).



The default User ID is "6200." The default Password is "6200."

The D6200 passwords do not correspond with the D6600 passwords.

This default user ID can access to all security levels and features. Change the default User Password to something other than "6200."



Valid passwords consist of a maximum of eight alphanumeric characters (0 to 9, A to F). Customize the default passwords using the D6200 software.

Level #	Level Name	Description	Access	
1	Manager (1 user)	The manager has full programming control and access to all menu features. The manager can change any other passwords.	Alarm Database CPU Configuration Line Cards Configuration Host Programming Software Versions Network Configuration Account Database Configuration Registered Accounts	
2	Supervisor (3 users)	The supervisor has full programming control and access to all menu features. The supervisor can change any password except the manager's.	Alarm Database CPU Configuration Line Cards Configuration Host Programming Software Versions Network Configuration Account Database Configuration Registered Accounts	
3	Operator (6 users)	The operator has restricted programming control and access to some menu features. The operator can not change any passwords	Alarm Database Software Versions Registered Accounts	

Table 3: Password Levels and Restrictions





3.5 D6200 Icon Bar



3.6 D6200 Administration



3.6.1 User Management



2. Enter User ID and password



Master User (6200) access rights cannot be edited, nor can the master user account be deleted. To change the master password, use the Administration → Change Password menu.

Table 4: Access Rights to the D6200 Menu Options

1 - Add a user - Click the Add button. Enter the

Adding, Editing, or Deleting Users

- Add a user Click the Add button. Enter the user name, password, access rights, and then click the OK button.
- 2 **Delete a user** Click the appropriate cell, then click the Delete button.
- 3 Edit a user name, password or access rights -Click the appropriate cell, and then click the Modify button. This allows the user to modify the current value. Make the appropriate changes, then click the OK button.
- 4 Click the **<u>Restore</u>** button to restore the previously saved user configurations.
- 5 Click the **<u>Close</u>** button and the changes are automatically saved.

Access Rights

Figure 6:

Users of the D6200 Programming Software can be granted access rights to varying D6200 menu options. When adding or editing users from the User Management window, select access rights from one of four categories shown in *Table 4*.

If no access rights are designated, the user access rights default to Read/Off Line Modification.

Level	Access Rights	Description
1	All	Users can access all the D6200 menu options.
2	All Except User Management	Users can access all the D6200 menu options except user management.
3	Read/Off Line Modification	Users can read configurations from the D6600 and modify parameters but cannot program the D6600.
4	User Defined	Users can select or remove any of the menu options by double clicking on the menu title listed. A check mark indicates the user was granted access to the item. No check mark indicates the user was denied access to that option.

Save and Restore User Management Files

Click the <u>**Close**</u> button once the user configurations are established. This saves user configurations into a hidden file, which can be useful for updating all user configurations when performing D6200 upgrades.

After installing a new version of the D6200, click the **<u>Restore</u>** button. The previously saved user configurations are now loaded into the new D6200.

3.6.2 Changing User Password



- 2. Enter valid user ID and password.
- ^{3.} <u>о</u>к



- 4. Enter new password
 Enter new password:
- 5. Retype password
- Retype password:
- 6. Change

1.

3.6.3 Environment Option

Auministration				
🖳 Connection S	ettings			
User Manage	ment			
Change Pass	word			
✓ Tool Bar Display On/Off				
 Status Bar Dis 	splay On/Off			
Environment	Option			
<u> </u> Log Off	5			
🗓 Exit	Ctrl+F10			
		_		
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Receiver	nt option Type	×		
Receiver	n t option Type :600 Mode	×		
Receiver	n t option Type :600 Mode :100 Mode	×		

Chine

Disange

2. 💽 6600 Mode





3.7 TeleCom Configuration

3.7.1 CPU Configuration

Opening the Configuration File

This option loads the CPU configuration file that is saved on the Host PC.



- 2. Select the desired configuration file.
 - Open



4. Change desired options.



Reading the Configuration File



2. Change desired options.



3.

3.

Editing the Configuration File

1. Change desired options.



3. Enter a filename.



Sending the Configuration File

After modifying the configuration file, send it back to the receiver for the changes to take effect.

Changed parameters take effect immediately at the receiver. For example, after making modifications to the line formats, update the line card.

The parameter file is in the receiver.

3.7.2 Line Card Configuration

Opening the Configuration File

1.

3.

5.

This option loads the CPU configuration file saved on the Host PC.

Administra (CPU Configuration Planagement CPU Configuration Planagement CPU Configuration Planagement CPU Configuration Management	I (provide get) Configuration from File
	DNE Outuboor Management Caller ID(DNE database adjection	Read Manage Line Configuration from Receive Line Card Removes Setup
Open Roceiver	line Card Configuration Tile	
	north Inc Dannel Dannel Dannel	
	File came J	Corvigencial Plan

2. Select the desired configuration file.

Une Card Con	figurations		
Line Care t	Line Card 2	Line Card 3	Line Card 4:
G Line 1	C Line 5	C Line B	C Lite 13
C Line 2	C Line 6	C Line 10	C Line 14
C Line 3	C Lite 7	C Line 11	C Line 15
C Line 4	C Line B	C Line 12	C Line 16
Line Care 5::	Line Card &	Live Card 7	Line Card &
C LINI 17	C Line 21	C Life 25	C Line 29
C Line 18	C Line 22	C Line 26	C Line 38
C Line 19	C Line 23	C Line 27	C Lite 31
C LIN 20	C Line 24	C Line 28	C Life 32

4. Select a line.

🛛 🎢 🛛 Select to Modify

Refer to Editing the Configuration File on page 20.

Reading the Configuration File

	Configuration Management	💶 🕰 OpenMenape Ur	e Configuration From P
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D6200 Commu	exation Status		
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Reading Receiver	Line Card configuration	W	
Stre Cort Con	hyerations		
Line Care 1	ligar above Lina Card 2	Line Card 3	Line Card 4
Store Cord Con Line Care 1 9 [Line 1]	Line Catel 2 C Line 5	Line Card 3	Line Card 4
Succession Con Line Caret	Line Card 2 C Line 5 C Line 6	Line Card 3 C Line B C Line 10	Line Card 4 C Line 13 C Line 14
Line Card Con Line Card 1 (F Line 1) (F Line 2) (F Line 3)	Line Catd 2 C Line 5 C Line 5 C Line 7	Line Card 3 C Line 9 C Line 10 C Line 11	Line Card 4 C Line 13 C Line 13 C Line 15
Line Cars 1 F Line 1 F Line 2 F Line 3 F Line 4	Line Card 2 C Line 5 C Line 5 C Line 7 C Line 8	Line Card 3 C Line 9 C Line 10 C Line 11 C Line 12	Line Card 4 C Line 13 C Line 14 C Line 14 C Line 14
Une Care 1 C Line 1 C Line 2 C Line 3 C Line 3 C Line 4 Line Care 6	Lina Card 2 C Lina 5 C Lina 5 C Lina 6 C Lina 7 C Lina 8 Lina Card 6	Line Cart 3 C Line 0 C Line 10 C Line 11 C Line 12 Line Card 7	Line Card 4 C Line 12 C Line 12 C Line 14 C Line 14 C Line 14 Line Card 6
Line Care t C Line 1 C Line 2 C Line 3 C Line 4 Line Care 5 C Line 17	Line Card 2 C Line 5 C Line 5 C Line 7 C Line 8 Line Card 6 C Line 21	Line Card 3 C Line 9 C Line 10 C Line 11 C Line 12 Line Card 7 C Line 25	Line Card 4 C Line 12 C Line 14 C Line 14 C Line 15 C Line 24 C Line 23
Line Cars 1 P Line 2 C Line 2 C Line 3 C Line 4 Line Cars 5 C Line 18	Line Card 2 C Line 5 C Line 5 C Line 7 C Line 8 Line Card 6 C Line 21 C Line 22	Line Card 3 C Line 10 C Line 10 C Line 11 C Line 12 Line Card 7 C Line 25 C Line 26	Line Card 4 C Line 12 C Line 13 C Line 14 C Line 20 C Line 23 C Line 33 C Line 33 C Line 33
Line Caret G Line 1 C Line 2 C Line 3 C Line 4 Line Caret 5 C Line 15 C Line 19	Line Card 2 C Line 5 C Line 5 C Line 7 C Line 7 C Line 7 C Line 21 C Line 22 C Line 22	Line Card 3 C Line 9 C Line 9 C Line 10 C Line 11 C Line 12 Line Card 7 C Line 25 C Line 27	Line Card 4 C Line 13 C Line 14 C Line 14 C Line 16 C Line 20 C Line 30 C Line 30 C Line 30
Line Care 1 F Line 1 F Line 2 F Line 3 F Line 4 Line Care 5 C Line 15 F Line 18 F Line 19 F Line 20	Line Card 2 C Line 5 C Line 5 C Line 7 C Line 7 C Line 8 Line Card 8 C Line 21 C Line 22 C Line 23 C Line 24	Line Card 3 C Line 9 C Line 10 C Line 11 C Line 12 Line Card 7 C Line 25 C Line 28 C Line 28	Line Card 4 C Line 10 C Line 11 C Line 15 C Line 10 C Line 20 C Line 20 C Line 20

2. Select a line.



Refer to Editing the Configuration File on page 20.

Editing the Configuration File



1. Change desired options.



Sending the Configuration File

After modifying the configuration file, send it back to the receiver for the changes to take effect.

Changed parameters take effect immediately at the receiver. For example, after making modifications to the line formats, update the line card.



The parameter file is in the receiver.

3.8 NetCom Configuration

3.8.1 Network Configuration

Opening the Configuration File

This option loads the CPU configuration file saved on the Host PC.



2. Refer to *Editing the Configuration File* on page 21.

Reading the Configuration File

1.

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C6200 Communication Stats			
Connecting			
CONNETER OK Reading Receiver CPL Metwork	conferra	ione .	
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ALCONTRACTOR	province 1 accounting province	In the second se	B A Base Among and Among

2. Refer to *Editing the Configuration File*.

Editing the Configuration File

	E T C THE R R LOUIS COMPANY		
	AT LODA DOLE NOR	- REALOW BUILDE	
	\$1200040aaaa	P statistications	
	51303ME794	P BILLING CONTRACTOR	
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1. Change desired options.

Sending the Configuration File

After modifying the configuration file, send it back to the receiver for the changes to take effect

Changed parameters take effect immediately at the receiver. For example, after making modifications to the line formats, update the line card.



The parameter file is in the receiver.

3.9 Databases

3.9.1 Caller ID

You can only access the Caller ID Database through the D6200 software. It logs all the phone numbers coming into the receiver and associates each with a handshake.

Figure 7: Caller ID Database Management menu

er Manage Calle 12 Database Carliga etce Iron File. ad Manage Calle 13 Database Carliga etce Iron Piscone

The database is either:

- automatically created by the receiver or
- manually created by the user

The database is created with the first 16000 phone numbers entered or received.

Handshake Optimization utilizes the caller ID information provided by the public switched telephone network (PSTN) to create a database of a maximum of 16000 dialers. The receiver uses this Caller ID information to first output the required handshake for that particular dialer. If the dialer does not respond to the optimized handshake, the receiver outputs the handshakes programmed for that line. For more information on the Caller ID Database, refer to the *D6600 Program Entry Guide* (P/N: 4998122702).



The D6600 is capable of storing only a DNIS Database or a Caller ID Database at one time, not simultaneously.

D6200 | Operation and Installation Guide | 3.0 Operation

Enabling Caller ID Database

Administration TeleCom NetCom System Management Language Help

CPU Configuration Management	1
Caller ID Database Management	•
DNES Database Monagement	•
Caller ID/DNIS database selection	N



2.	C Enabl	le Caller ID and disable DNIS functio	n
3.			

Opening the Database

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4.

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Adds a new number.

Modifies an existing number.

Deletes an existing number.

Saves the database with a new name (refer to *Saving the Database with a New Name* on page 24).

Sends the database to the receiver (refer to *Sending the Database* on page 24).

Reading the Database from the Receiver

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Sage as

Adds a new number.

Modifies an existing number.

Deletes an existing number.

Saves the database with a new name (refer to *Saving the Database with a New Name* on page 24).



Sends the database to the receiver (refer to *Sending the Database* on page 24).

Saving the Database with a New Name

2. Enter new filename.



3.

1.

2

1.

Begin the new name for the Caller ID Database with CID.

Save

Sending the Database

After modifying the configuration file, send it back to the receiver for the changes to take effect.

Changed parameters take effect immediately at the receiver.

Send to Receiver

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The database is in the receiver.

3.9.2 DNIS

The Dialed Number Identification Service (DNIS) Database identifies the proper handshake and communication format based on the DNIS account number received and can only be accessed through the D6200 software.



The maximum capacity is 2000 DNIS accounts. All accounts must be manually entered using the D6200 software.



Refer to the D6600 Program Entry Guide (P/N: 4998122702) for more details.

Enabling DNIS Database



Opening the Database

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Adds a new DNIS account.

Modifies an existing DNIS account.

Deletes an existing DNIS account.

Saves the database with a new name (refer to Saving the Database with a New Name on page 24).



Sends the database to the receiver (refer to *Sending the Database* on page 24).

Reading the Database from the Receiver

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Adds a new DNIS account.

Modifies an existing DNIS account.

Deletes an existing DNIS account.

Saves the database with a new name (refer to *Saving the Database with a New Name* on page 26).

Sends the database to the receiver (refer to *Sending the Database* on page 26).

Saving the Database with a New Name

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2. Enter a new name.



3.

1.

Begin the new name for the DNIS Database file with DNIS.

Sending the Database

Save

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After modifying the configuration file, send it back to the receiver for the changes to take effect.

Changed parameters take effect immediately at the receiver.



The database is in the receiver.

2.

3.9.3 NetCom Accounts

Program each NetCom account to before the D6600 can supervise control panels connected to the network through Bosch Security Systems D9133s or C900s*.

The Account Database File stores the programming for the field accounts. The D6600 processes signals, manages, and supervises field accounts using the information in this file.

* Account databases are either ALL NNC (NetCom Naming Convention) or ALL Static IP Addresses.

Enable or disable NNC accordingly before opening and editing any account database.

If the D6600 is rebooted, all account database configurations are lost. Use the D6200 to save all database configuration changes to the "ACTXX.DB" file (where xx = filename string. After rebooting the D6600, reload the database to the receiver.

Both the D6600 receiver and the D6200 software maintain the NetCom account databases in either NNC mode or Static IP mode.

NetCom Naming Convention (NNC)





The Bosch 9000 Series Control Panels use up to a ten-digit account number, but the receiver only identifies the last eight digits of the account number. For example, if the account number in the control panel is 1234567890, the account number (NNC number) in the database is 34567890.

Keep all account numbers to eight digits or less if running in NNC mode.

The D6200 must also have NNC enabled (checked).



The account database structure in the D6200 Programming software supports NNC Number not Static IP Address.

If the NetCom system operates, with both static IP addresses and dynamic IP addresses (NNC) the account database must run in NNC mode and all field devices must be able to support NNC. The C900TTL-E must be running version 1.10 or greater and the 9000 Series control panel must be running version 6.30 or greater.

NNC mode references all accounts by either:

• AREA 1 account code sent from the control panel – when using a D9133TTL-E or a DX4020 • Serial number of the C900TTL-E (version 1.10 or greater) dialer capture module.

Opening the Database File

2.

1. Determine the type of network that is hosted.

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- 3. Select the desired database.
- 4. Open

Reading the Database from the Receiver

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Editing the database file

The following screen captures illustrate all the options available in the account database using static IP addresses. If NNC is enabled, all options remain the same except that IP Address fields are replaced by NNC Number fields.

Figure 9:	NetCom	Account Da	atabas	e Cor	nfigura	tion					
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	0.0.0.4	00000004		1	100	45	1	0	0		
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	0005	00000005	0	1	100	45	1	0	0		
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2 - Searc	h by IP Addi	ress (or NNC	numbe	er) - A	llows		6 - Account	t optio	ns - Th	ese options affe	ect the individual
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pa	ge 35.										

Add/Edit Account



Each account listing has three tabs of settings.

4. Select the tab at the top of each screen to view or modify.



Account

- 1. Select the tab at the top of each screen to view or modify.
- 2. Select the appropriate Net Device type in the Net Device field.

Net Device:		R
	C900TTL-E D9133TTL-E DX4020	
Tect Interval:	Г ^{DX4020}	

3. Enter all other pertinent data on this screen (optional).

Settings Tab

Figure 10: S	Settings Tab	
	Account Settings Notes	
3-	Virtual Account : 00000001	Virtual Receiver:
4-	Enable Communication : Yes	Time Sync:
5	Virtual Line: 0 • Poll Rate Panel Poll: 100 • Secon	Priority Level : 0 - 4
	Redirect Automation	Backup Automation
	IP Address: 0 0 0 1 Port Number: 0	IP Address: 0 0 0 1 Port Number: 0
	Anti-Substitution Options ReSynchronization: Yes	Static Key: 8089
	Status: 0 7	Changed Time:
	QK	Close
1 - IP Addre	ess or NNC Number	6- Poll Rate
2 - MAC Ac	iaress ccount	7 - Anti-Substitution (Resynchronization) 8 - Ack Wait
4 - Enable (Communications	9 - Time Sync
5 - Virtual L	ine	10 - Virtual Receiver

IP Address/NNC Number (*Item 1* in *Figure 10* on page 31)

For a STATIC account, enter the IP Address of each NIM in the database on the SETTINGS screen for each account (IP Address field).



For a NNC account, enter either the SERIAL NUMBER (C900TTL) or the AREA 1 ACCOUNT CODE (D9133TTL).

NNC Number:	01020304
directly Revised to problem.	

MAC Address (Item 2 in Figure 10)



The MAC address is for reference only.

This six-byte (twelve-digit) address is hard-coded into the device (C900TTL-E, D9133TTL-E, or DX4020) and identifies the device on the network. Refer to the NIM's installation guide for information on finding the MAC address.

Virtual Account (Item 3 in Figure 10)

Enter the account number of the control panel as it is to be identified in the automation system.

Virtual Account : 1123



The Virtual Account number must have the same number of digits in the dialer account number.



A Virtual Account number identifies the control panel which lost its network connection when a "Communication Failure" message appears. If the Virtual Account Replacement function is disabled [refer to *Menu Item 6.8.4 Virtual Account Replacement* in the *D6600 Program Entry Guide* (P/N: 4998122702)], the default message "ACT0000 Communication Failure" appears. If this happens, load the NetCom database from the D6600 into the D6200 and view the individual account states to identify which control panel has lost its network connection.

Enable Communications (Item 4 in Figure 10)

Enables or disables communication between the NetCom control panel and D6600.

Enable Communication : Yes

Virtual Line (Item 5 in Figure 10)

Enter the line number (0 to 34) to identify the control panel and account if the automation system is used in combination with the alarm control panel account number. If the line number is not used, enter zero.

Virtual Line:



Poll Rate (Item 6 in Figure 10)

Set the Poll Rate to match the account's (control panel or C900) Poll Rate.



Entering a value from the D6600 keypad that is not a multiple of five results in that value rounded down to the nearest value. For example, enter 91 sec and that value is rounded down to 90 sec.

This value (in five sec multiples [such as 5, 10, 15...]) determines the time the receiver expects a poll from the control panel. The D6600 reports an Off Normal status after a missed poll and programmed Ack Wait Time (refer to Ack Wait). Make sure the poll rates remain consistent for all control panels within the same network.

The receiver monitors a polling range from zero to 1275 sec. The 9000 Series control panel sends a range of polls (0 to 65535 sec). Program the 9000 control panel poll rate within the receiver's capabilities (0 to 1275 sec).

The C900TTL-E's poll rate ranges from:

- 0 to 255 sec using the C900 control commands from the D6200 software
- 30 or 240 sec depending on the DIP switch position on the C900TTL-E

Any C900 control command sent to the receiver (and to the selected C900TTL device) from the D6200 software supersedes any DIP switch settings. The DIP switch settings take affect when the C900TTL-E reboots.

Match the control panel's programmed poll rate and the poll rate entered into the NetCom database to the same value or as close as possible.



C900 v1.10 or greater has a 75 sec default poll rate when DIP Switch 7 is in the OFF position.

Anti-Substitution (Resynchronization) (*Item* 7 in *Figure 10* on page 31)

Set Resynchronization to YES if employing Antisubstitution or Anti Replay protection. Refer to Section 6.0 C900TTL-E Implementation of Anti-Substitution Protection in the C900TTL-E Installation Guide (P/N: 4998122718) for more information.

-Anti-Substitu ReSynch	ition Options nronization: Yes 💌
Default:	Yes
Selection:	Yes or No
Yes	Receiver issues a new static key* to this account the next time it communicates with the control panel.
No	Receiver does not issue a new static key*, the control panel must use the key it received from the first communication with the receiver. If this key is incorrect, the communication causes an alarm.
* The receiver side suppor secure beca	r issues static keys to all new accounts. If the panel ts this 'key', the communication becomes more ause substitution and replay are ruled out.

Virtual Receiver (Item 8 in Figure 10)

The D6600 handles multiple PSTN lines, so each account must have a different receiver number.

virtual meber	ver. U 🔳
Default:	0
Selection:	0, 01 to 99
0	The D6600 uses a common receiver number programmed in <i>Menu Item 2.2.30</i> in the D6600 ().
01 to 99	The D6600 uses this number for sending information from the NetCom Account to the automation software.

Time Sync (*Item 9* in *Figure 10*)

If set to 1 and the account is a D9133TTL-E connected to a 9000 Series Control Panel (running version 6.3 or greater), the receiver syncs the control panel's time with the receiver's time If set to 0, the times are not synchronized.

Time Sync:

And the second second second second

Ack Wait (refer to Item 10, Figure 10)

The time (in seconds) that the D6600 waits after the poll rate interval expires for an ACK message from the NetCom control panel.

Ack Wait: 15 🔹 💌 Seconds

Notes tab

Use this screen to log information unique to each account.

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r	PACENT				
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Copy a Account

This command can only be accomplished using the D6200 Programming Software.

To copy an account:

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select an existing account	10.04	0001001		1	100	10		+			
select an existing account	06.88	10070081		1.1	108	-8.	1.1	1.4			
select an existing account	10.00	INCOME.		1	10	-16			. 8		
select an existing account	PHT.	HOUSE.	_	1.1	. 19.			. 9			
select an existing account	24.24	1001000		1	104	- 44	- 1	- 6			_
select an existing account		100000 Bill	-	1	178		1	1.4			-
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Any Account information from the copied account is transferred to the copy with only the IP Address/NNC number left blank.



Enter an IP address (or NNC number, if NNC is enabled) for this new account.



Import an Account

You can only import an account using the D6200 Programming Software.

To import an account from another database:

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Select the database where the source account to be copied is residing.

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0.0.0101	00000101		1	100	Τ
0.0.0102	90000102		1	100	Ι
0.0.0100	00000103		1	100	1
0.0.0.104	00000104		1	100	1
0.0.0.105	0/00001/05		1	100	1
0.0.0.106	00000106		1	100	1
0.0.0107	00000107		1	100	1
0.0.0.100	00100000		1	100	1
0.0.0109	00000109		1	100	1
0.0.0.11	00000011		1	100	
0.0.0110	00000110		1	100	1
6.0.0.111	00000111		1	100	1
0.0.0112	00000112		- 1	100	
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6.0.0.114	00000114		1	100	1
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To select more than one account in different parts of the list, highlight the first one and then hold down the [Ctrl] and click the second one.

To select a series of accounts, highlight the first one, hold down the [Shift] key and click the last desired account.



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Delete an Account

6.

Deletes the designated IP or Area 1 (if NNC is enabled) account from the database.





Deletes the selected account(s).

Cancels the delete operation.

The account is deleted and disappears from the list of accounts.

Saving the Database with a New Name

NetCom account database files can be saved with a different file name but only within the database file.

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5.	Save		
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	tollowing error of	ccurs:	
	Person		
	Account database N	le nust be named in this format: "ACTARAR.D	6"
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		0	

Sending the Database

Send the database back to the receiver after modifying it from the D6200 interface for the changes to take effect.





1.

Searching for Account 3.9.4

OK

Three options are available in the D6200 Programming Software in searching for an account:

Search by key field .

it parent

- Search by NNC Number (if enabled) or by IP • Address
- Search by combined options



Search by Key Field

Any of the account fields can be used to search for a particular text string.

Figure 12: Search by Key field Search by Key field Search by: Account Name ٠ 60 Find value:

Available fields in the "Search by:" drop down list:

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- Account Name •
- Administrator
- Virtual Account
- Control panel Type •
- Control panel Communication Format
- Zip

- Phone Number
- Fax Number
- Contact 1
- Time Sync Resynchronization

Contact 1 Telephone

Contact 2 Telephone

Contact 3 Telephone

Contact 4 Telephone

Contact 5 Telephone

Contact 2

Contact 3

Contact 4

Contact 5

Use the "Find value:" field to enter a specific text string.

Click the GO button to search.

Search by NNC Number or IP Address

Find an account by a specific NNC number or an IP Address as the criteria.

The search box uses either NNC number or IP Address depending on if NNC Enabled checkbox is checked.

Enter the NNC number or IP Address and click the **GO** button to start the search.

Search by Combined Options

A combination of Virtual account, Virtual line, Enable and Control panel poll rate search options are available to find an account.



Click the **View resynchronized accounts log** button to view a log of the last time accounts were

synchronized (refer to Anti-Substitution

(*Resynchronization*) on page 33) between the D6200 and the receiver.

3.9.5 C900 Commands

The D6200 can send commands to active and enabled C900TTL-E modules on a NetCom network.

Figure 14: C900 Commands

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			000 Comm		
		-	900 Comm	and	
			900 Comm	and	
		-	900 Comm	and	
		9	900 Comm	and	

These commands (accessed from inside an open NetCom Account Database) are in two categories:

- Dialer Status
- Transmission rate

To send a C900 command, refer to *Changing C900 Transmission Settings and Retrieving C900 Status* on page 39.



Select a C900 IP address or NNC account from the **Select C900** drop down menu (*Item 1* in *Figure 15*) by pressing the **Select** button (*Item 2* in *Figure 15*).

Modify the C900 Dialer Status (*Item 4* in *Figure 15*) and C900 Message Transmission Rate (*Item 6* in *Figure 15*) parameters after selecting a C900. Click the **Change** button (*Item 5* and *Item 8* in *Figure 15*) to send the commands to the C900. Sending of the commands is shown by a slowly advancing taskbar (*Item 3* in *Figure 15*).

After the C900 polls the receiver, the D6200 delivers the commands to the C900. Once a command is scheduled for delivery to the C900 and the poll rate is set for 30 sec, the command delivery might take up to 30 sec. Once the history log displays (*Item 13* in *Figure 15*) the ACK from the C900, the module operates according to the command that was sent. If more than one command is queued for a specific module within a single poll period, the C900 only recognizes the last queued command. All other commands are ignored by the C900.

The Poll Rate listed in the **C900 Transmission Rate** section (*Item 6* in *Figure 15*) is the poll rate the C900 uses if that command is sent to a C900TTL-E overriding the DIP switch poll rate setting. To maintain polling synchronization, consider the Account Database Poll Rate to track this modified C900 polling rate.

The history log screen displays all C900 control activity including sent commands, receiver ACKs to changed commands, status inquiries. The history log screen can be used as a C900 control programming record.



Save as

This button saves a copy of the current History log screen (*Item 13* in *Figure 15* on page 38).



<u>ال</u> 1.



2. Type a new name for the log file.

Sa<u>v</u>e as



Changing C900 Transmission Settings and Retrieving C900 Status

The printer records all commands and related C900 status changes which are also sent to the automation software. The D6200 sends Low Battery, Reboot, and Dialer Diagnostic C900 status messages first to the receiver and then to the automation software and printer.



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ŕ	<u>C</u> 900 Command





4.



The status of a C900 might have changed since the last time the Account database was read from the receiver.

For an accurate C900 Account status, read the Account database from the D6600 before making any C900 changes.



C900 Status must be 1 to send a command to that C900.



(refer to *Table 5* on page 41)

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7.

5.

C<u>h</u>ange

The D6200 sends this command to the receiver. On the next poll, the receiver retransmits the command to the C900.

The history log file records all status changes.

👫 🗈 Query selected C900 status

The last command sent to the C900 appears in the history log display upon the next poll the D6600 receives from the C900.

<u>19-17-2002 13</u>	44:00 172:30 1:15	For a more detail
	plain C900 status	explanation.
(1) C900	172.30 1.15itatus(58) (re	Necepit, Impuit opers, Output active:
~	DK.	-

C900 Command Descriptions

The following sections describe these Control Commands.

Refer to *Appendix D: NetCom Messages* in the *D6600 Computer Interface Manual* (P/N: 4998122703) for D6600 messages output descriptions for these commands.

Table 5: C900 Command Descriptions								
Command Name		Description						
Switch to Intercept	 Switch to intercept 	Forces the C900 to work in the Intercept mode and allows the C900 to receive the dialer signals and sends them to the D6600 through a LAN/WAN.						
Switch to Fallback	Switch to fallback	Forces the C900 to work temporarily in the fallback mode, so the dialer can use the PSTN to communicate with the central stations remotely controlling the dialer for PSTN remote programming.						
		If a C900 is switched to fallback, an optional message can be created every 30 min reminding the operator that the C900 is in the fallback mode and might return to the intercept mode for LAN/WAN communications.						
		The C900 automatically switches to Intercept after one hour of switching to Fallback or turns to Intercept mode immediately upon receiving the command Switch to Intercept.						
Disable Intercept	Disable intercept	Remotely removes a defective C900 from service. The dialer is connected to the PSTN until the Intercept command is enabled or the C900 reboots.						
Activate Output	 Activate output 	Activates Output 4 on the C900 (an open collector output) when connected to annunciating devices or directly to a control panel input to signal various conditions.						
Deactivate Output	 Deactivate output 	Deactivates Output 4 on the C900 (an open collector output) when connected to annunciating devices or directly to a control panel input to signal various conditions.						
Poll Rate	gal Pada 🥵 💌 tecarate	Upon reboot, the C900 reverts to the DIP switch settings for the poll rate.						
		For UL Fire Listed, make Poll Rate 75 sec.						
		C900 v1.09 or less has a 30-second default poll rate when DIP switch 7 is in the OFF position.						
		C900 v1.10 or greater has a 75-sec default poll rate when DIP switch 7 is in the OFF position.						
Active (C900 Acknowledgement from Dialer)	Autive 1 T seconds	Specifies the wait before the C900 receives the acknowledgment or other information from the dialer. The C900 waits for the dialer to respond to the Handshake. A valid entry is 0 to 255. Entering a 0 uses the default of 1 sec.						
Retry (Elapsed Wait Time)	Betry: 5 💌 seconds	Specifies the wait in seconds before C900 responds to a message before resending the command.						
		The C900 retries nine times before deciding that the host has failed. Valid entry is 0 to 255. Entering a 0 uses the default of 5 sec. Resend this value to the C900 after the C900 reboots.						
Hold (Before Transmitting Message)	Bott 1 258 mont	Specifies the wait (in 256 ms increments) after the C900 receives any message before it transmits another message. Valid entries are from 0 to 255. Entering 0 uses the default of 256 ms.						

3.10 Network Utilities

3.10.1 Show Accout Status

Using this command, the operator views all the accounts in the database in a summary form.

Read the database from the D6600 into the D6200 for and up-to-date account status.

The summary contains following information for each account:

- IP Address
- Status
- Status Changed Time
- Anti-Sub
- Poll Rate
- Virtual Account Number
- Name

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show more summary details

- 3. 🐴 🔽 <u>C</u>lose
- Closes the window.

3.10.2 Network Device Setup

Using this command, the user can configure other connected network devices such as the C900TTL-E, D9133TTL-E, DX4020, and D6680.

If these automated commands do not work properly, refer to *Section 5.2 Assigning IP Addresses Using Telnet* on page 53 to connect to the device manually using Telnet, assign the IP address, and ping the IP address.

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eigning IP Addres down a ster to assign down a ster to assign a stere IF addres	IN: When P address to an interim The spectra and mail	Contra Research on the MA	C Additional julies refer tool to

- Assign IP Address
- Ping Device
- Telnet to Device
- Query Device Information
- List All NetCom Devices
- Configure NetCom Device Encryption Key

Assign an IP address

From here (*Figure 16*) the user can assign an IP address to a network device.

Figure 16: Network Device Setup – Assign IP Address
Street Envire Setup
и манно в напру В исс манност с напру В (r.g. 10.00 м.4.00 м.0.0) (r.g. 10.00 м.4.00 м.00 м.00 м.00 м.00 м.00 м.0
3
Assigning P Address: This feature is used to usign a fixed P address to a device (search on the WAC Address (also indemid to as the numbers or Etherspic address). This can be used to other If Assign a rear to address.
Address to assign tech. The P activest which you want to a single to the device, routine estimation respectively and the second statement of the second statement of the device, for example: 10-20-44-14-01-18 Marc Address faile: This is the MAC address of the device, for example: 10-20-44-14-01-18 Marc Address faile: This is the MAC address of the device, for example: 10-20-44-14-01-18
1 - IP Address to Assign
2 - MAC Address

- 3 Status of the Assigned IP
- 4 Information Window

The user can:

- select or enter an IP address from a drop-down menu of IP addresses (*Item 1* in *Figure 16*)
- select or enter a MAC address from a drop-down menu of MAC addresses (*Item 2* in *Figure 16*)
- set the IP Address once it is chosen

The bottom of the window (*Item 4* in *Figure 16*) shows on-line help to guide the user and provides additional information.

Ping Device

From here (*Figure 17*), the user uses the packet internet grouper (PING) utility to verify the IP address of the network device.

Figure 17: Network Device Setup – Ping Device

Ant	work Device Senter
4	1 → DHEF KARES [] Truestrei [] () ← (2)
	3→ <u>tu</u> <u>pm</u>
	And in start
	4
	Ŷ.
2 PI	ng Device:
****	neh minikan.
2150 2150	denot ferrar. The P Jaconski of The cleaner you want to Prog. multitie entered a stranger between to of example: 2021 (18.11) of storage: This fact distance that which intervalities for the units you're transmission
9 Tr	inet to device:
This	kelow is used to open a Televit seconds: In the device, Manded prevarily in configure carbon 🔳
-	IP Addresses to PING
-	Timeout interval (in ms) before IP address is
	ninged again

- 3 Send a PING command to the selected IP
- 4 Status of the Assigned IP
- 5 Information window

Here, the user can:

- enter an IP address or select from a drop-down menu of IP addresses (*Item 1* in *Figure 17*)
- enter a timeout interval in milliseconds (*Item 2* in *Figure 17*)
- ping the device to verify communication (*Item 4* in *Figure 17*)

The bottom of the window (*Item 5* in *Figure 17*) shows on-line help to guide the user and provides additional information.

Telnet to Device

From here (*Figure 18*), the user can connect to the network device using the telnet program.



5 - Information window

The user can:

- enter an IP address or select from a drop-down menu of IP addresses (*Item 1* in *Figure 18*)
- enter port number or select from a drop-down menu of port numbers (*Item 2* in *Figure 18*)
- initiate a telnet session to communicate with the device (*Item 3* in *Figure 18*)

The bottom of the window (*Item 5* in *Figure 18*) shows on-line help to guide the user and provides additional information.

For more information, refer to the following installation guides:

- C900TTL-E: C900TTL-E Installation Guide (P/N: 4998122718)
- D9133TTL-E: *D9133TTL-E Installation Guide* (P/N: 4998122717)
- DX4020: DX4020 Installation Guide (P/N: 49522)

Query Device Information

From here (*Figure 19*), the user can get information about a network device.

Figure 19: Network Device Setup – Query Device Information



- 4 Device Firmware Version
- 5 Information Window

The user can:

- enter an IP address or select from a drop-down menu of IP addresses (*Item 1* in *Figure 19*)
- get information about the device at the IP address(*Item 2* in *Figure 19*)

List All NetCom Devices

From here (*Figure 20*) the user can get a list all online NetCom devices in the current LAN. The MAC address and IP address of the devices appear if they detected.

Click **Save** to save the MAC and IP information to a text file after all online NetCom devices in the LAN appear.



Configure NetCom Device Encryption Key

This feature is not supported at this time.

3.11 System Management

System Management Language H
Download Event Database
Date/Time Synchronization
Firmware Version
Firmware Utilities

From the D6200 System Management menu, you can:

- **Download Event Database** –Sends all the events that have occurred in the D6600 receiver to the PC running the D6200 software and saves it to a file.
- **Date/Time Synchronization** Sets the time and date on the receiver to the time and date on the PC.
- Firmware Version Connects the D6200 to the receiver and retrieves all the version numbers for the firmware running on the D6600. Refer to *Section 3.11.3 Firmware Version* on page 46.

3.11.1 Event Database

You can receive the event database from the D6600 receiver and save it as a file to the PC running the D6200 software.



Bosch Technical Support uses the event database file to troubleshoot problems.

Use the D6200 software to download the database and save it to the Host PC:









3.11.2 Date/Time Synchronizations

You can use the D6200 Programming Software package to synchronize the receiver's time with the PC's time.



OK

2.

<u>0</u>K

3.11.3 Firmware Version

1.



Connecting	
Connented OK	1
Receiver CPU Version (01.81.84.42	
Line Card 1 L1,2 DSP Version : 01.01 64	
Line Card 1 L3 4 DSP Version 102.00 ID 51	- March
Line Card 2 L7 8 DSP Version 168	
Line Card 31,8,18 DSP Version INA	
Line Card 3 L11,12 DBP Version :NA	
Line Card 4 LT3,14 DSP Version : NA	H

26200 Communication Status		13
Line Cand 5 L17,18 DBP Version: NAA Line Cand 5 L11,21 DBP Version: NAA Line Cand 5 L11,21 DBP Version: NAA Line Cand 6 L21,23 DBP Version: NAA Line Cand 6 L21,24 DBP Version: NAA Line Cand 7 L23,28 DBP Version: NAA Line Cand 8 L23,28 DBP Version: NAA Line Cand 8 L23,29 DBP Version: NAA Line Cand 8 L23,29 DBP Version: NAA Line Cand 8 L31,22 DBP Version: NAA Line Cand 8 L31,22 DBP Version: NAA	-	ŌK
Decrementing . Decremented OK		

2.

<u>0</u>K

箫

3.12 Firmware Utilities



- Manual Upgrade Wizard Manual process of decompressing firmware upgrade files on PC then using D6200 to install the new versions. Refer to *Appendix A: Manual Firmware Upgrade Procedure* on page 59.
- Manual Remote Execute Firmware –A command sent to execute the software upgrade after copying files to the receiver.
- **One-Button Operations** Automated commands to:
 - upgrade firmware (refer to Section 4.1 Performing a One-Button Upgrade on page 49)
 - backup configurations and databases ()
 - restore configurations and databases ()
 - prepare files to send to Bosch Technical Support for troubleshooting ()

3.12.1 One Button Backup

Using this feature (*Figure 22*), the D6200 guides the user through backing up all the files necessary to either reinstall the user configurations and databases later or document any changes made.



3.12.2 One Button Restore

Using this feature (*Figure 23*), the D6200 guides the user through restoring all the user configurations and databases back to the receiver.

Figure 23: One Button Restore



3.12.3 One Button Tech Support

Using this feature (*Figure 24*), the D6200 automatically places all the files needed by Bosch Technical Support in one compressed file that can be emailed to Bosch Technical Support for troubleshooting.

The only difference between this button and the One Button Backup is that the receiver's event database is included in the zip file

When done, the dialog box shows the file name and location.



3.13 Language and Help Menus

3.13.1 Language Menu



English is the only available language at this time

3.13.2 Help Menu



Shows the help files for the D6200 software and the current D6200 software revision number (refer to *Figure 25* on page 48).

Figure 25: D6200 About window
Abut
D6200 http://www.teachaecurty.us
Programming Software V1.10.21.3 Copyright: Bosch Security Systems 1998 - 2004 All rights reserved
OK.

4.0 Firmware Upgrade Procedure

4.1 Performing a One-Button Upgrade

Using this feature (accessible from the D6200 menus or a shortcut icon), the D6200 automatically installs the latest firmware upgrades to the receiver.

Manually complete the upgrade (refer to *Appendix A: Manual Firmware Upgrade Procedure* on page 59) if the One-Button upgrade procedure isn't successful.



Refer to Figure 26.

Figure 26: Acknowledge all pending events before perform	ning One Button Upgrade
Information Please make sure all pending events have been admoniedged or the One Button Upgrade you will have to manually admoniedge them before and during the upgrade process. OK	e process will fail. If you do not have automation connected to the receiver,
	Confirm ▼ Image: Confirm Current CPU Version: 01.02.00.12 Current loaded PSTN Version(s) in D6600: 01.02.00.06 02.02.00.07 20.00.01.10 [4 N/A] CPU Version to be upgraded: 01.02.00.12 PSTN Version(s) to be upgraded: 01.02.00.06 02.02.00.07 20.00.01.10 Do you want to continue?

8.

5.	漸	Yes

If the receiver is already running the latest CPU version,



4.2 Line Card Firmware Setup (D6600 Only)

The D6600's CPU firmware can support up to four different versions of Line Card firmware. Two digital signal processor (DSP) chips control the four lines of each line card [one chip controls each pair of lines (1 and 2 or 3 and 4)]. The D6600 receiver's CPU card can hold up to four versions of line card firmware, but only two versions are available per line card. Select the version you want to run from the Line Card Firmware Setup screen and click the Accept & Program button to tell the line card to run that version of the firmware.

Use the Line Card Firmware Setup in the D6200 Programming Software when the D6600 has more than one line card firmware version loaded into the CPU card. The D6200 Programming Software must be online with the D6600 Receiver use this feature. Refer to *Section 3.3 Connection Settings* on page 9.

1.

 Construction
 Construction

 Construction
 Construction



2.



Each line card (controlling two phone lines) can have up to two different firmware versions available for use. The D6600's CPU card can store up to four different versions.

For example, to change the version number of Line Card 1 Line 3,4 from 01.01.04.41 to 02.00.00.44, click the drop down menu and select "02.00.00.44."



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	Tencam Mekcala Systems O'Ni Centupation Manager Ten Exclusion Manager Calle 2/2023 Batalane et			
	Line Caid Farmage Setup		X	
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	Construction of the second sec	1041343123	ok .	

5.0 Troubleshooting

5.1 Uninstalling the D6200 Software



4.	Change/Remove
	06200
	This sell remove D6200 from your computer. Do you wish to proceed?
	Yes No
5.	

5.2 Assigning IP Addresses Using Telnet



The IP and MAC addresses shown here are for demonstration only.

5.2.1 Initial Assignment of the IP Address using ARP

Read this entire section before beginning. Make sure there is power to the network device (C900TTL-E, D9133TTL-E, DX4020, or D6680) and the Ethernet Network RJ45 connections are in place.

Т
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 $\left(\right)$

To connect to the network device (C900TTL-E, D9133TTL-E, DX4020 or D6680) using Telnet, make sure the network device and the PC that is configuring it are on the same gateway (the device that connects the LAN to the WAN).

Once the network device is configured and has an IP address, changes can be made by opening a telnet session from anywhere on the network.

Use the ARP program to assign the network device (C900TTL-E, D9133TTL-E, DX4020, or D6680) its new IP address once you have the IP address and the network administrator confirms that it is ready.

The Address Resolution Protocol (ARP) program creates a temporary association between an IP address and a hardware address, such as a MAC. The ARP program installs into the C:\WINDOWS directory by default by Microsoft[®] Windows[®] 98, Windows 98SE, Windows Me, Windows 2000, Windows NT, and Windows XP during the operating system's installation.

Use the command syntax in *Figure* 27 at the MS-DOS prompt (usually C:\WINDOWS or command prompt for Windows NT and 2000, usually C:\WINNT):



found on the label of the network device (C900TTL-E, D9133TTL-E, DX4020, or D6680).

ARP Command Usage

1.



 Type arp -s xxx.xxx.xxx yy-yyyy-yy-yy-yy
 (xxx xxx yy xxx is the IP address of the network)

(xxx.xxx.xxx is the IP address of the network device and yy-yy-yy-yy-yy-yy is the MAC hardware address).

(ENTER]

c:/>

• IP address and MAC address accepted.



3.

No error messages indicate that the ARP command was successful.

4. Type arp -g.

5.2.2 Using Telnet to Finish the Configuration

If you are using Windows 98, refer to Section 5.2.3 Using Windows 98 Telnet.

If you are using Windows 2000/XP, refer to Section 5.2.4 Using Windows 2000/XP Telnet on page 55.

5.2.3 Using Windows 98 Telnet

1.





2.	Connect Edit Jerminel Help Earnight System
	Ege Alt+F4
	Connect 💌
	Host Name:
	IermType: vt100
	Connect Cancel
3.	Connect
	Host Name: 172.17.10.70
	Port: 1
	IermType: v100
	Connect Cancel
	Type the network device's IP add

Type the network device's IP address in the Host Name field,

In this example, the IP address is 172.17.10.70. Type 1 into the Port field and leave the TermType field at vt100.





Banances Farmore is disabled manances F600, L/F Mode 4C, Flow 00 Port 87708 Datagram Type 00 Pack Cntrl: 00

TCP Keepalive : 455 ARP cache timeout: 600x Mail zerver: 0.0.0.0 Unit : Demain : Recipient 1: Recipient 2: *** Trigger 1 Serial Sequence: 80,00 CP1: X CP3: X Message : Priority: L

- 8. To complete the procedure, refer to the appropriate installation guide:
 - C900TTL-E Installation Guide (P/N: 4998122718)
 - D9133TTL-E Installation Guide (P/N: 4998122717)
 - DX4020 Installation Guide (P/N: 49522)
 - D6680 Network Adapter Inguide (P/N: 4998138732)

5.2.4 Using Windows 2000/XP Telnet

Launch a telnet session to finish the IP address configuration of the network device.



Log into Windows 2000 with an Administrator privilege level.

6. This example uses the IP address of [ENTER] 172.17.10.70 and the MAC Address of 00-20-4a-72-04-0e. Your IP and MAC Sar 1281-167 93.6 address will differ. ess Enter to yo into Setup Mode hasis parameters Anare: Ethernet Matedetect Adr 018.025.124.148, so gateway set, setmask 255.255.0000.0 addy 818 1. 2 Help ate 27620, 1/F Made 4C, Flaw 200 nata 17 Adri Bill.H25.124.146, Part 80088 masci Hadai GB Diacena Hadai Hi Juzh Hadai GB Diacena Hadai Hi Port #38 71 Run... IT.XLS Shut Down... B Server configuration 1 Channel 1 configuration 7 Factory defaults 8 exit without never 9 neve and exit Namps Detay 5 6 6 2 Start 0 i 🍋 😂 Your choice ? 👿 🗟 🛒 🖸 🖶 🎊 💌 💌 ? × Run To complete the procedure, refer to the 7. appropriate installation guide: Type the name of a program, folder, document, or C900TTL-E Installation Guide Internet resource, and Windows will open it for you. (P/N: 4998122718) ٠ command D9133TTL-E Installation Guide (P/N: 4998122717) DX4020 Installation Guide (P/N: 49522) • OK Cancel Browse... D6680 Network Adapter Inguide (P/N: 4998138732) 2. 5.3 Using Ping OK The PING.EXE program determines whether a specific Command Prompt IP address is accessible by sending a packet of data to Microsoft Vindows 2000 (Version 5.00.2195) (C) Copyright 1985-2000 Microsoft Corp. the specified address and waiting for a reply. Troubleshooting network connections and verifying CINnetwork connections for the network devices are PING's primary uses. The colors are inverted here for clarity. PING.EXE is normally installed along with The normal prompt window appears with the networking component of Windows white text on black. Under Microsoft[®] Windows[®] 98, Windows 2000, and Windows NT. It is Command Prompt 3. not installed if you have not yet installed Microsoft Windows 2000 [Version 5.00.2195] (C) Copyright 1985-2000 Microsoft Corp. any networking components. PING.EXE can be extracted from the Windows Stelnet Installation CAB files. 4. Write down the IP address. [ENTER] You must know the IP address of the 5. Microsoft (R) Windows 2000 (TM) Version 5.00 (Build 2195) Welcome to Microsoft Telmet Client Telnet Client Build 5.00.99203.1 device you are attempting to verify. Escape Character is *CIRL+1* This example uses the IP address of licrosoft Telnet) open 172.17.10.70 1 10.25.124.148. Your IP address will 10.0 differ. Resultion C. MR (Ballis First to Ricronalt Talmet dlike Climet Build 5.80,97283 (rage Character to 'CER.+3' 🚳 Command Prompt 1. t fulled open 172-11.14.78 tette C:\>ping 10.25.124.148 Pressing [F3] displays the last line typed. Backspace over the port number (1) and change to 9999.

2.

C:\>

[ENTER]

```
Command Prompt

Civiping 18.25.124.148

Pinging 18.25.124.148 with 32 bytes of data:

Reply from 18.25.124.148 with 32 bytes of data:

Reply from 18.25.124.148: bytes-32 time(18bs ITL-128

Reply from 18.25.124.148: bytes-32 time(18bs ITL-128

Reply from 18.25.124.148: bytes-32 time(18bs ITL-128

Ping statistics for 18.25.124.148:

Parbets: Sent = 4. Received = 4. Last = 8 (8t loss),

Reproving the state of the state of the state of the state

C:v)

If unsuccessful,

C:v)

If unsuccessful,

C:v)

Request timed out.

Reque
```

If your machine is not properly configured, it might appear to be doing nothing. This also indicates the PING command has failed. You can usually terminate the PING command by pressing the **[Ctrl]** + **[C]** key combination (press and hold the **[Ctrl]** and press **[C]** once).

Bosch Security Systems | 2/05 | 4998154991D

6.0 Specifications

Table 6: D6200 Specifications

System PC	Communications	CD-ROM	20x to 48x	
Requirements	Requirements	Floppy Drive	3.5 in., 1.44 MB	
		Hard Disk	6 GB to 8 GB	
		Network Card	Windows supported (only required if communicating D6600)	
		Ports	One parallel	
			Two serial	
			Additional serial, parallel, and USB ports might be required	
			based on configuration.	
	Multimedia	Mouse	Windows compatible mouse	
			(Microsoft Serial, IBM PS/2)	
		Video	4 MB video RAM	
			Super VGA (800 x 600) display 32,000 colors	
	Operating System	Microsoft [®] Windows [®] 98, Windows 98 Second Edition, Windows Me,		
		Windows NT, Wind	lows 2000 and Windows XP	
	Processor	Pentium [®] III 450 MH	Hz or higher	
	RAM	128 MB		
D6200 Software	Compatible	D6600		
Specification	Receivers			
	Automation Modes	6500, SIA		

Appendix A: Manual Firmware Upgrade Procedure



Upgrade the receiver software files if they are not the latest revision(s).

Upgrade the firmware within the D6600 through the D6200 Software when the system is first started up to insure using the most recent revision of firmware. Future upgrades to the D6600 can be performed when they are made available.

A.1 Upgrading the D6200

All account database configurations are lost when the D6600 is rebooted. Save all database configurations that include NetCom account database ("ACTXX.DB") and Caller ID database ("XX.DB") or DNIS database ("XX.DB") files with the D6200. Reload these databases into the D6600 after the D6600 reboots.

Use the latest D6200 software when upgrading the D6600 with the latest firmware (CPU v01.02.01, PSTN D6640 v01.02.01, PSTN D6640 v02.02.00, and D6641 v20.00.02).

- 1. Extract the software from the CD-ROM.
- 2. Read the parameter files from the D6600.
- 3. Save them as XXXX.CPU and XXXX.LNC.
- 4. Install the new firmware versions.
- 5. Reload them into the D6600.

Perform the upgrade steps in the this order:

- For ITI format support in the D6640, load the PSTN firmware (version 02.02.01) into the receiver.
- 2. Upgrade both the newer released versions of CPU and Line Card firmware to the Receiver. An older CPU firmware version does not work with a new Line Card firmware version and vice versa.
- 3. If you are installing or upgrading the D6641, the PSTN firmware must be v20.00.02.

A.2 Backing up the D6600 Configuration and Database Files

Receive the different configuration and Database files from the D6600 and save them as separate files on the Host PC.

A.2.1 CPU/Network Configuration

 Select TeleCom → CPU Configuration Management → Read/Manage CPU Configuration from Receiver.

> A D6200 Communication Status window appears, the D6200 connects to the D6600, and the receiver sends the CPU/Network configuration file back to the D6200. After the transfer, the window automatically closes and the CPU/Network Configuration window automatically opens.

- 2. Click the Save as button to open a save dialog box to the C:\Program Files\D6200 folder on the Host PC.
- 3. Type in a new name for the configuration file and end with a .CPU extension.
- 4. Click Save.

A.2.2 Line Configuration

 Select TeleCom → Line Configuration Management → Read/Manage Line Configuration from Receiver.

A D6200 Communication Status window appears, the D6200 connects to the D6600, and the receiver sends the line configuration file back to the D6200. After the transfer, the window automatically closes and the Line Card Configuration window automatically opens.

- 2. Click the Save as button to open a save dialog box to the C:\Program Files\D6200 folder on the Host PC.
- 3. Type in a new name for the configuration file and end it with an .LNC extension.
- 4. Click Save.

A.2.3 Caller ID Database

 Select TeleCom → Caller ID Database Management → Read/Manage Caller ID Database Configuration from Receiver.

A D6200 Communication Status window appears, the D6200 connects to the D6600, and the receiver sends the Caller ID database to the D6200. After the transfer, the window automatically closes and the Caller ID Database Management window automatically opens.

- 2. Click the Save as button to open a save dialog box to the C:\Program Files\D6200 folder on the Host PC.
- 3. Type in a new name for the configuration file, beginning with CID and ending with a .DB extension.
- 4. Click Save to save the file

A.2.4 DNIS Database

- 1. Select **TeleCom** \rightarrow **Caller ID/DNIS Database**.
- 2. At the Caller ID/DNIS database selection window, select **Enable DNIS and disable Caller ID** function and click **OK** to close.
- Select TeleCom → DNIS Database Management → Read/Manage DNIS Database Configuration from Receiver.

A D6200 Communication Status window appears, the D6200 connects to the D6600, and the receiver sends the DNIS database to the D6200. After the transfer, the window automatically closes and the DNIS Database Management window automatically opens.

- 4. Click the **Save as** button to open a save dialog box to the C:\Program Files\D6200 folder on the Host PC.
- 5. Type in a new name for the configuration file with DNIS at the beginning and ending with a .DB extension.
- 6. Click Save.

A.2.5 NetCom Account Database

 Select NetCom → Netcom Account Database Management → Read/Manage Netcom Account Database Configuration from Receiver.

A D6200 Communication Status window appears, the D6200 connects to the D6600, and the receiver sends the NetCom account database to the D6200. After the transfer, the window automatically closes and the NetCom Account Database Configuration window automatically opens.

- 2. Click the **Save as** button to open a save dialog box to the C:\Program Files\D6200 folder on the Host PC.
- 3. Type in a new name for the configuration file beginning with ACT and ending with a .DB extension.
- 4. Click **Save** to save the file

A.3 Upgrading the CPU firmware

- Double-click the Bosch Security Systems icon located in the D6200 Programmer\Firmware CPU-D6610_01.02.00 folder on the D6600 CD-ROM. The file unzips to the necessary location.
- Open the D6200 Programming Software and select System Management → Firmware Upgrade Wizard to display active and inactive options. Options are displayed depending on which upgrade, (CPU, Line Card, or System Files) was unzipped.
- 3. Select the CPU option to be loaded to the D6600 and click **Next**.

The D6200 guides you through the rest of the installation process.

The receiver completely loads the CPU code (approximately 4 min to load the receiver with the new CPU software).

4. Select System Management → Remote Execute Firmware.

The receiver takes approximately 3 min to re-boot.



Clear the Event Buffer in the D6600 Receiver so the Remote Execute Firmware command can execute. If not, press the [ACKNOWLEDGE] button on the front of the receiver to clear the events out of the buffer.

A.4 Reloading the configuration file

A.4.1 CPU Configuration File

1. After the CPU firmware upgrade and the remote execute, the receiver resumes to its idle running stage (time and date displayed on the LCD or the pending events in the buffer). Reload the CPU configuration file you saved.

Select TeleCom → CPU Configuration Management → Open/Manage CPU Configuration.

The Open Receiver CPU/Network Configuration file dialog box appears pointing to the C:\Program Files\D6200 folder on the Host PC.

 Select the file name of the recently saved CPU/Network configuration file and click **Open**. The CPU configuration window opens. 4. Click the **Send to Receiver** button to send the file to the receiver.

A D6200 communication status window appears, connects to the receiver, and the D6200 sends the saved CPU/Network configuration file to the receiver.

- 5. When the transfer is done, click **OK** to close the window.
- To verify the CPU firmware upgrade took effect, use the D6200 Programming Software to select System Management Firmware Version. CPU v01.02.01 appears.

A.4.2 Line Configuration File

 Select TeleCom → Line Configuration Management → Open/Manage Line Configuration.

The Open Receiver Line Configuration file dialog box appears pointing to the C:\Program Files\D6200 folder on the Host PC.

- Select the file name of the recently saved line configuration file and click **Open**. The Line configuration window opens.
- Click the Send to Receiver button to send the file to the receiver.
 A D6200 communication status window appears

A D6200 communication status window appears, connects to the receiver, and the D6200 sends the saved Line configuration file to the receiver.

4. When the transfer is done, click **OK** to close the window.

A.4.3 Caller ID Database Configuration File

 Select TeleCom → Caller ID Database Management → Open/Manage Caller ID Database Configuration.

The Open Receiver Caller ID Database Configuration file dialog box appears pointing to the C:\Program Files\D6200 folder on the Host PC.

- Select the file name of the recently saved Caller ID Database configuration file and click **Open**. The Caller ID Database configuration window opens.
- 3. Click the **Send to Receiver** button to send the file to the receiver.

A D6200 communication status window appears, connects to the receiver, and the saved Caller ID Database configuration file is sent to the receiver.

4. When the transfer is done, click **OK** to close the window.

A.4.4 DNIS Database Configuration File

 Select TeleCom → DNIS Database Management → Open/Manage DNIS Database Configuration.

At the Open Receiver DNIS Database Configuration file dialog box appears pointing to the C:\Program Files\D6200 folder on the Host PC.

- Select the file name of the recently saved DNIS Database configuration file and click **Open**. The DNIS Database configuration window opens.
- 3. Click the **Send to Receiver** button to send the file to the receiver.

A D6200 communication status window appears, connects to the receiver, and the D6200 sends the saved DNIS Database configuration file to the receiver.

4. When the transfer is done, click **OK** to close the window.

A.4.5 Netcom Account Database Configuration File

 Select NetCom → NetCom Account Database Management → Open/Manage Netcom Account Database Configuration.

The Open Receiver NetCom Account Database Configuration file dialog box appears pointing to the C:\Program Files\D6200 folder on the Host PC.

2. Select the file name of the recently saved NetCom Account Database configuration file and click **Open**.

The NetCom Account Database configuration window opens.

- Click the Send to Receiver button to send the file to the receiver.
 A D6200 communication status window appears, connects to the receiver, and the D6200 sends the saved NetCom Account Database configuration file to the receiver.
- 4. When the transfer is done, click **OK** to close the window.

A.5 Upgrading the D6640 Line Card Firmware (v01.02.01)

- 1. Load the Line Card Firmware once the CPU firmware successfully loads.
- To upgrade the D6640 Line Card Firmware, double click the Bosch Security Systems icon located in the D6200 Programmer\Firmware\ PSTN-D6640_01.02.01 folder on the D6600 CD-ROM.

This unzips the file to the necessary location.

- Open the D6200 Programming Software and select System Management → Firmware Upgrade Wizard to display active and inactive options. Options appear depending on which file (CPU, Line Card, or System Files) was unzipped.
- Check the Line Card option to be loaded to the D6600 and click Next. The D6200 guides you through the rest of the installation process (approximately 2 min to load the receiver with the new Line Card Firmware).
- 5. After the Line Card upgrade, verify the Line Card Firmware upgrade took effect.
- Using the D6200 Programming Software, select System Management Firmware Version. PSTN v01.02.01 appears.



After the firmware loads and updates to the installed release, the line cards reset.

A.6 Upgrading the D6640 Line Card Firmware (v02.02.01)

- 1. Load the D6640 PSTN firmware (v02.02.01) into the receiver to support the ITI format.
- To upgrade the line card firmware, double click the Bosch Security Systems icon located in the D6200 Programmer\Firmware\PSTN-D6640_02.02.01 folder on the D6600 CD-ROM This unzips the file to the necessary location.
- Open the D6200 Programming Software, and select System Management → Firmware Upgrade Wizard to display active and inactive options. Options are displayed depending on which upgrade (CPU, Line Card, or System Files) is unzipped.
- Check the Line Card option to load to the D6600 and click Next. The D6200 guides you through the rest of the installation process (approximately 2 prints load)

installation process (approximately 2 min to load the receiver with the new line card firmware).

 After the line card upgrade, verify the line card firmware upgrade took effect. Use the D6200 Programming Software to select System Management Firmware Version. PSTN v02.02.01 appears.



After the firmware loads and updates to the installed release, the line cards reset.

A.7 Upgrading the D6641 Line Card Firmware (v20.00.02)

1. Load the D6641 PSTN firmware (v20.00.02) into the receiver.

- To upgrade the line card firmware, double click the Bosch Security Systems icon located in the D6200 Programmer\Firmware\PSTN-D6641_20.00.02 folder on the D6600 CD-ROM This unzips the file to the necessary location.
- Open the D6200 Programming Software and select System Management → Firmware Upgrade Wizard to display active and inactive options. Options are displayed depending on which upgrade (CPU, Line Card, or System Files) is unzipped.
- 4. Check the Line Card option to load to the D6600 and click **Next**.
- 5. The D6200 guides you through the rest of the installation process (approximately 2 min to load the receiver with the new line card firmware).
- After the line card upgrade, verify the line card firmware upgrade took effect. Use the D6200 Programming Software, to select System Management Firmware Version. PSTN v20.00.02 appears.



After the firmware loads and updates to the installed release, the line cards reset.

A.8 Upgrading the System Files

- 1. If the CPU firmware was upgraded from v01.01.01 or earlier, load the System Files on to the D6600.
- 2. To upgrade the System Files firmware, double click the Bosch Security Systems icon located in the D6200 Programmer\Firmware\System Files folder on the D6600 CD-ROM. This unzips the file to the necessary location.
- Open the D6200 Programming Software, and select System Management → Firmware Upgrade Wizard to display active and inactive options. Options are displayed depending on which upgrade (CPU, Line Card, or System Files) was unzipped.
- 4. Check the System File option to be loaded to the D6600 and click **Next** (approximately 10 sec to load the receiver with the new System Files firmware.

The D6200 guides you through the rest of the installation process.



Turn the receiver OFF and then ON for the system files to take effect (the receiver is fully operational after it is ON for approximately 3 min).

The firmware upgrade is now complete.

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