

USER GUIDE

Enterprise IP Solutions

OfficeServ Installation Tool

SAMSUNG

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Samsung Telecommunications America

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CHAPTER 1

INTRODUCTION

What is the OfficeServ™ Installation Tool?

The OfficeServ Installation Tool is a Windows™ application that allows programming of the OfficeServ™ 7000 Series phone systems from a PC over a data network or modem. The Installation Tool allows access to OfficeServ™ Man Machine Code (MMC) programming through an intuitive programming interface without the need to memorize MMC numbers or keypad programming procedures.

In addition to system programming the Installation Tool also provides the ability to manage files on the system media card allowing administrators to upgrade main system software without the need for a media card reader. The Installation Tool also allows downloading, uploading, and comparison of system databases as well as offline editing of stored databases.

What can the Installation Tool do for me?

➤ **Organize Site Connections**

Save connection properties for multiple phone systems for quick access with the Link Control.

➤ **Local and Remote Administration**

Connect via LAN, Internet, or modem to any OfficeServ™ 7000 Series system from anywhere.

➤ **Manage System Databases**

Download system databases to your PC for archiving or offline editing. Upload databases to the system to push large changes with minimal service downtime.

➤ **Manage Media Card Files**

View, add, or delete operating system files on the Media Card for your OfficeServ™ 7000 Series system to ease version upgrades for the processor and interface cards.

➤ **Compare Databases**

The Database Compare function helps you track changes between archives by detecting and displaying any differences between two saved databases.

➤ **Store Programming Favorites**

Bookmarks increase efficiency by allowing you to save a list of commonly used programming screens.

➤ **Search Menus**

The search feature greatly reduces headaches by allowing you to search for a programming option by MMC number, field name, or menu item name.

What are the Installation Tool System Requirements?

➤ Minimum PC Requirements

Component	Requirement
CPU	Pentium IV - 1 GHz or higher
RAM	512 MB RAM or higher
Hard Drive	30 MB or more free space
Operating System	Microsoft Windows™ (all editions)
MODEM Card (Optional)	1200 bps or faster (for MODEM connection types only)
Network Interface Card (Optional)	10/100T or faster Ethernet NIC (for LAN connection types only)

➤ Minimum OfficeServ™ Requirements

System	Processor	Minimum Version
7030	MP03	Version 4.41a
7100	MP10	Version 4.04a
7100	MP10a	Version 4.24a
7200-S	MP20S	Version 4.45a
7200	MCP	Version 4.14k
7200	MP20	Version 4.23b
7400	MP40	Version 4.14k



Samsung recommends backing up all saved OfficeServ™ 7000 Series databases on your PC before upgrading or uninstalling the Installation Tool to avoid any possibility of lost data.

CHAPTER 2

SETUP



The screenshots provided in this section were taken on a PC running Windows™ XP Professional Service Pack 2. Other operating systems may cause variations in color and/or appearance.

Installing the OfficeServ™ Installation Tool

- Unzip the installation file obtained from the Samsung GSBN website and launch the 'Setup' file.
- At the "Welcome" screen click **[Next>]** to begin the installation process.

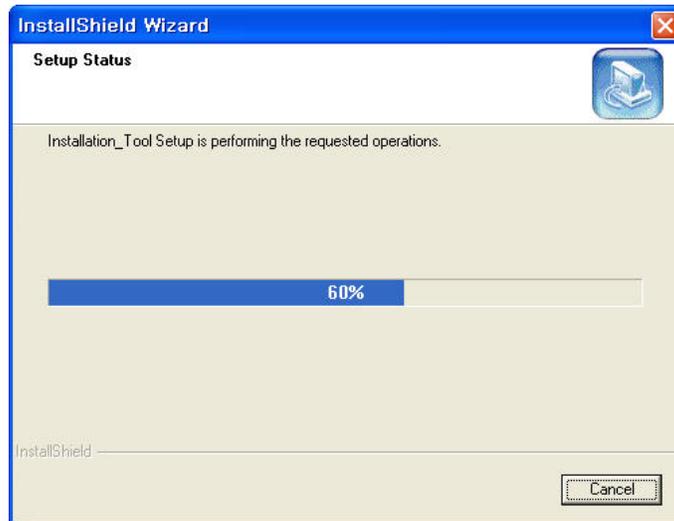


- At the "Choose Destination Location" screen click **[Next>]** to proceed with installation in the default folder (C:\Program Files\Samsung Electronics\Installation_Tool) or click **[Browse...]** to choose a custom location.



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- The "Setup Status" screen displays installation progress. Clicking **[Cancel]** will abort the installation.

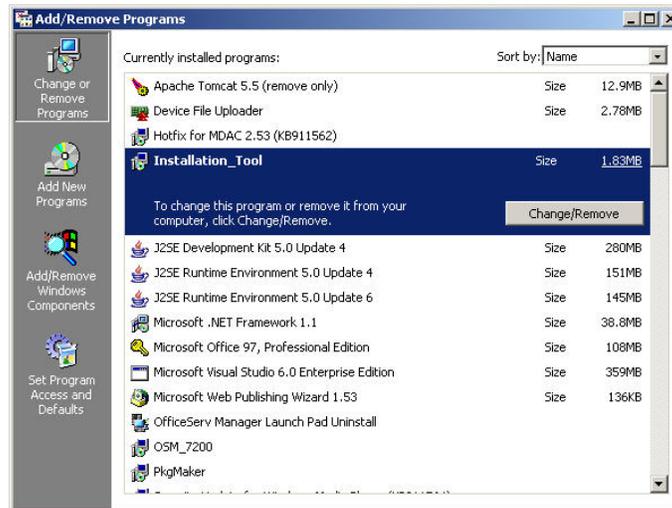


- At the "Wizard Complete" screen click **[Finish]** to exit and complete the installation.

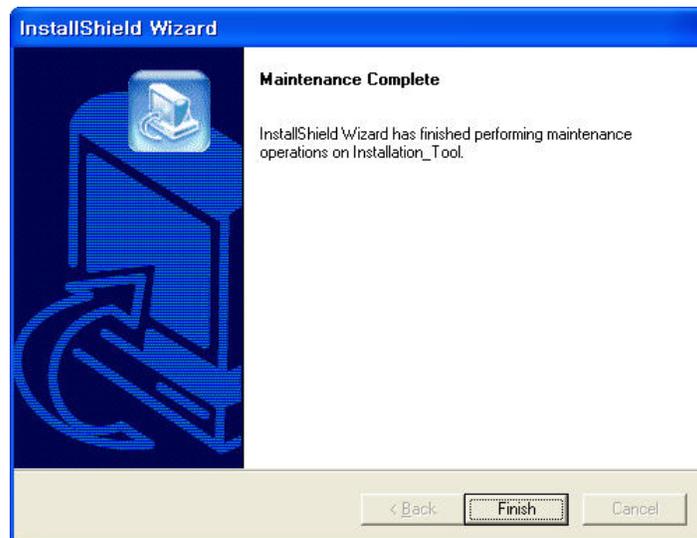


Uninstalling the OfficeServ™ Installation Tool

- Open the Control Panel. In Windows XP you can do this by clicking **[Start]** → **[Settings]** → **[Control Panel]**.
- From the Control Panel double-click "Add or Remove Applications".
- Select [Installation_Tool] from the list and then click **[Change/Remove]**.



- A progress bar will be displayed showing removal progress.
- At the "Maintenance Complete" screen click **[Finish]** to exit and complete removal.



CHAPTER 3

OPERATION

Launching the Installation Tool

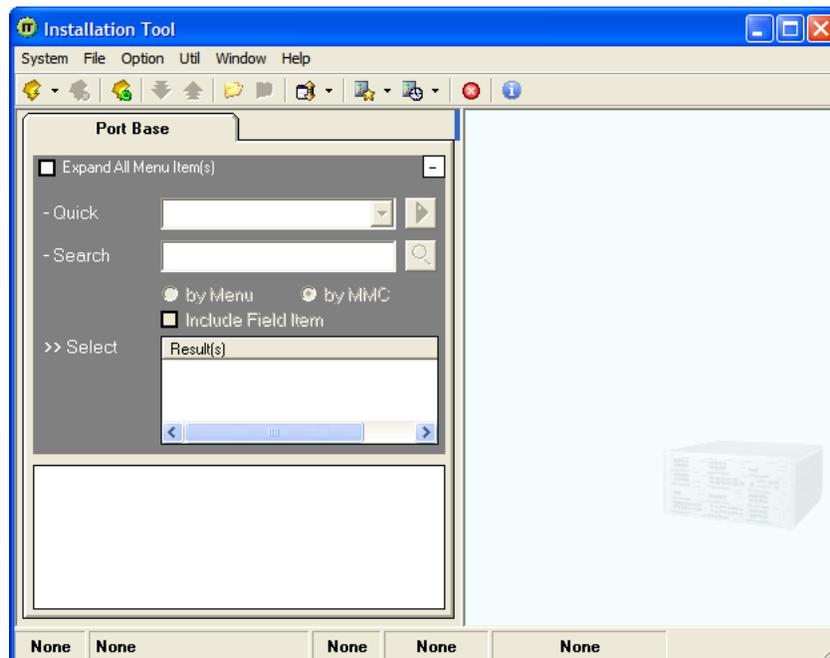
There are two methods to launch the Installation Tool:

1. From the Windows™ Start Bar by clicking **[Start] → [All Programs] → [Samsung Application Program Module] → [Installation Tool]**
2. From the desktop by double-clicking the Installation Tool icon ().

During the Installation Tool initialization a splash screen will be displayed showing the software version number. This version number can also be accessed through the Help menu of the main Installation Tool window.

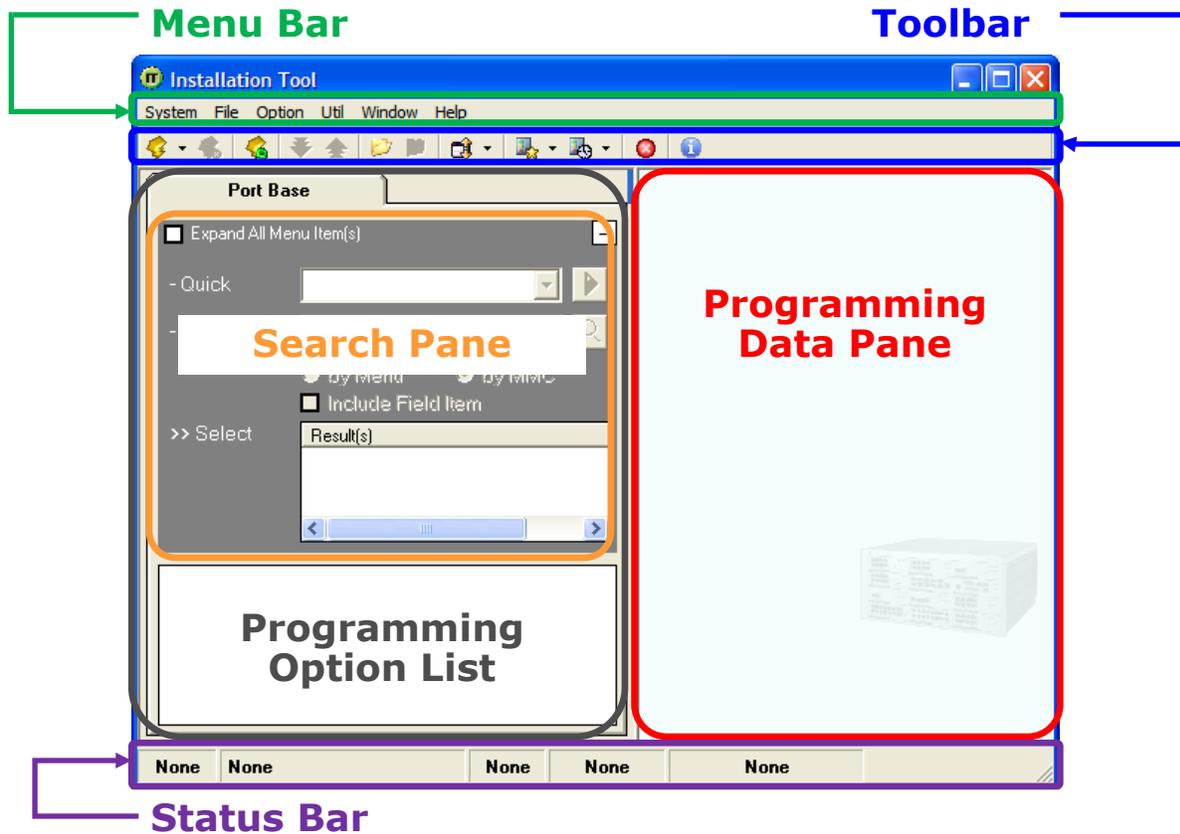


After initializing the splash screen will disappear and the main Installation Tool window will be shown.



Installation Tool Window Layout

The purpose of the Installation Tool is to maximize speed and efficiency of system programming. The design of the interface is crucial to this, and so the main window is broken down into 6 distinct areas, as illustrated below:



- **Menu Bar**
System main menu, used to access Installation Tool features
- **Toolbar**
Used for quick access to the most commonly used features
- **Search Pane**
Used to search for system programming options
- **Programming Option List**
When connected to a live system or offline database, this area will list all available programming options for the system or database
- **Programming Data Pane**
Contains the programming data for the selected option and is where programming actually occurs
- **Status Bar**
Displays information about current connections and other status data

Menu Bar

System File Option Util Window Help

The menu bar is used to access general functions of the Installation Tool. The menu works just like any other Windows™ application menu bar. Click a title heading to see the options contained in that menu.

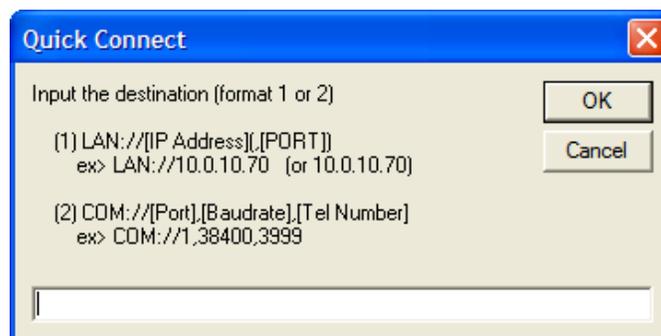
System Menu

➤ Connect

The Connect menu option attempts to connect to the OfficeServ™ system defined in the currently active connection. The active connection is defined by the Link Control window as detailed below.

➤ Quick Connect

Occasionally it is necessary to connect to a system that you do not wish to create a site entry for in the Link Control. For these occasions the Quick Connect option was developed. When selected this menu option will open the following dialog box:



As shown, there are two options to connect: LAN or COM. LAN is used to connect to a system over a data network. COM is used to connect via MODEM.

LAN

For LAN connections there are two possible parameters: IP address and Port.

- The IP address parameter is mandatory and will typically either be the SYSTEM IP ADDR from MMC 830 if you are connecting from on site or SYSTEM PUBLIC IP from MMC 830 if you are at a remote location.
- The Port parameter is optional and determines the TCP port communications with the system will occur on. This parameter is optional because for most connections it will remain at the system default of 5090.

The command string for Quick Connect will be **LAN://<ipaddress>** when port is not specified and **LAN://<ipaddress>, <port>** when the port must be changed from 5090.

As an example, typing **LAN://10.0.0.1** into the text box and pressing **[OK]** will cause a connection to be made to IP address 10.0.0.1 port 5090.

COM

For COM connections there are three mandatory parameters: COM Port, Baud Rate, and Phone Number.

- COM Port determines the port on your PC that the MODEM is connected to. This can be obtained in Windows XP by clicking **[Start] → [Settings] → [Control Panel] → [Printers and Other Hardware]** and double-clicking **"Phone and Modem Options"**. Once loaded click the **Modems** tab and the COM port is listed under the column **Attached To**.
- Baud Rate determines the connection speed. This setting is typically 38400. The MODEMS will auto-negotiate a baud rate upon connection, so this parameter can safely be set at 38400 if the correct speeds are not known.
- Phone number tells the Installation Tool what number to dial after accessing the MODEM to connect to the system.

The command string for Quick Connect will be **COM://<port>,<baud>,<number>** for MODEM connections.

As an example, typing **COM://2,38400,5551234** into the text box and pressing **[OK]** will cause the MODEM on COM 2 to dial 5551234 and attempt to connect to the system at 38.4k baud.

➤ Disconnect

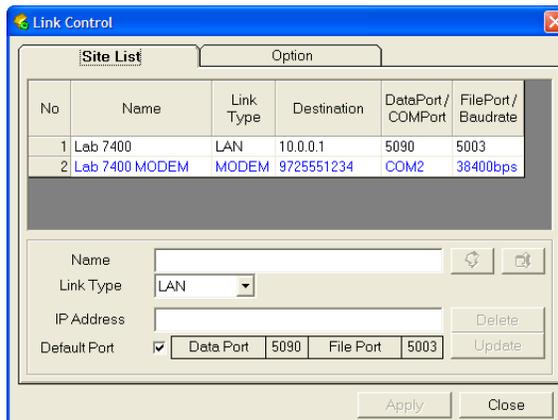
The Disconnect menu option causes the Installation Tool to log out of programming for the currently connected system and then disconnect.

➤ Link Control

The Link Control window is a connection manager for your OfficeServ™ system connections. It contains 2 main tabs: Site List and Option.

Site List

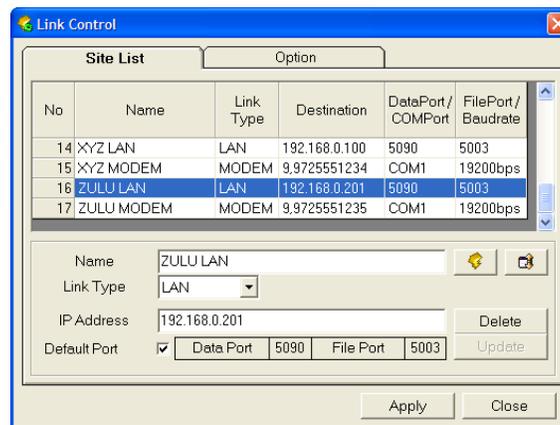
The Site List window is the site management portion of the Link Control. It allows you to add, edit, or delete site information as well as view data for all your stored connections.



The site connection listed with blue text is the currently active site. Currently active means that this is the site that will be connected to when you click Connect from the **System** menu, File Control from the **Util** menu,  in the toolbar, or  in the toolbar.

Clicking a site in the Site List will cause the connection detail for that site to populate in the lower half of the window. To edit the data make your changes and then click **[Update]**. You will be prompted to confirm and then receive a success notification. You may also connect to the system by click the  button or connect to the Media Card browser by clicking the  button.

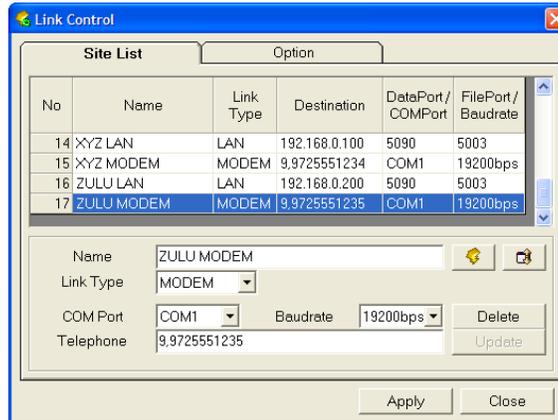
Create a LAN Site Connection



To create a new LAN site connection you must enter a few pieces of information:

- **Site Name** sets the name for the connection, which is used mainly for your reference.
- **Link Type** should be set to LAN, which is the default.
- **IP Address** sets the IP address to connect to the system on. This will typically either be the SYSTEM IP ADDR from MMC 830 if you are connecting from on site or SYSTEM PUBLIC IP from MMC 830 if you are at a remote location
- **Default Port** sets the IP connection ports to use for this site. The default is 5090 for programming and 5003 for Media Card access. To set new values you must uncheck the Default Port checkbox.

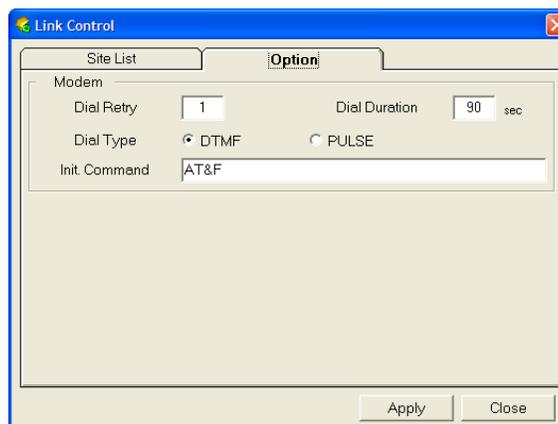
Create a MODEM Site Connection



To create a new MODEM site you must enter several pieces of connection information:

- **Site Name** sets the name for the connection, which is used mainly for your reference.
- **Link Type** should be set to MODEM.
- **COM Port** determines the port on your PC that the MODEM is connected to. This can be obtained in Windows XP by clicking **[Start]** → **[Settings]** → **[Control Panel]** → **[Printers and Other Hardware]** and double-clicking **"Phone and Modem Options"**. Once loaded click the **Modems** tab and the COM port is listed under the column **Attached To**.
- **Baudrate** determines the connection speed. This setting defaults to 19200bps.
- **Telephone** is the phone number to dial after accessing the MODEM to connect to the system.

Option

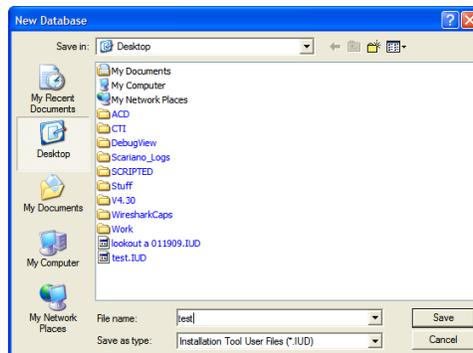


The Option tab allows you to set configuration parameters for MODEM connections. Once changes have been made you must click **[Apply]** to save them.

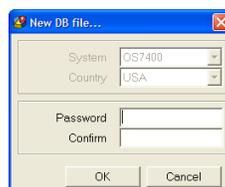
- **Dial Retry** sets the number of outcall attempts to make. The default is 1, which means that if the call fails or isn't answered there will be no more attempts made.
- **Dial Duration** sets the length of time to wait for a connection to be made. The default setting is 90 seconds, which means that if a connection isn't established within 90 seconds of seizing the trunk the call will be considered a failed attempt.
- **Dial Type** sets whether the MODEM should dial using DTMF or Pulse dialing.
- **Init Command** sets the initialization string to use to setup the MODEM call. The default is AT&F, which is compatible with 99% of MODEMs manufactured since 1990. It is recommended that you leave this setting as is unless instructed to change it by the MODEM manufacturer.

➤ Download DB

- The Download DB option is used to save a copy of the system database to your PC for later use. The Download DB option is only available when the Installation Tool is connected to a live system. After clicking this option a window will appear asking you to specify a file name and location to download to. If you specify a file name that already exists you will be prompted to overwrite the file. If you choose **[No]** the download process will be cancelled.

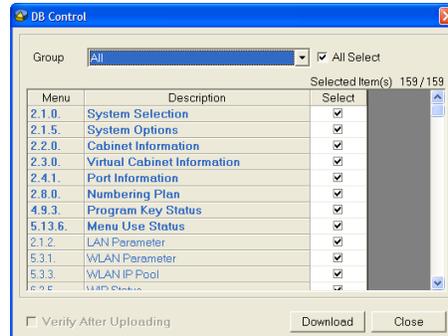


- After specifying a file a window will appear allowing you to set a password to access the database file. The password may be blank or any alphanumeric sequence up to 16 characters. The Password and Confirm fields must match or an error will appear and you will have to retry.

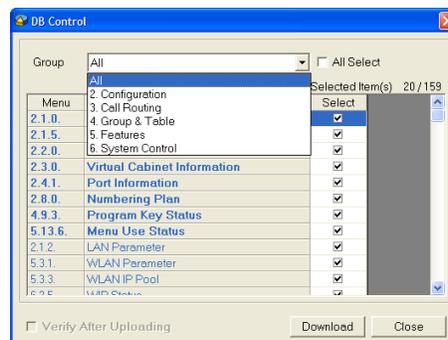


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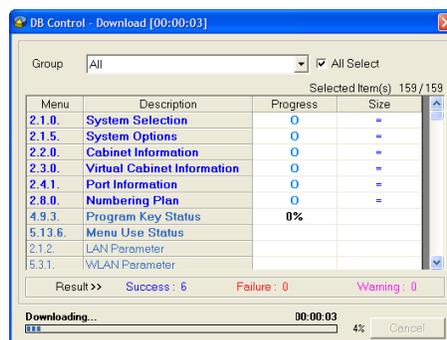
- Once the password is set the DB Control window appears. This window is used to specify which programming options to download. By default the All Select checkbox is checked, which means that all programming options will be downloaded. If you wish to specify only a certain set of options to download uncheck the All Select box.



- The Group drop-down allows you to navigate through the programming option menu blocks to select items. There are 20 programming options that contain critical system profile information. These options are mandatory download pieces and do not allow you to uncheck them. They are 2.1.0, 2.1.2, 2.1.5, 2.2.0, 2.3.0, 2.4.1, 2.6.9, 2.8.0, 3.1.1, 3.3.2, 3.3.4, 3.3.5, 4.1.1, 4.1.2, 4.2.1, 4.9.3, 5.13.6, 5.3.1, 5.3.3, and 6.2.5.



- After you have selected all items you want to download click [Download]. The screen will change to show you the status of the download.

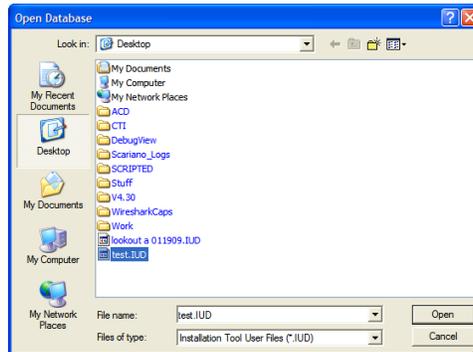


- When the download is complete a message will appear telling you how long the process took. Typical download time is less than a minute.

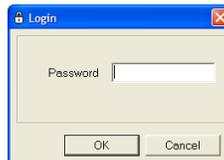


➤ Upload DB

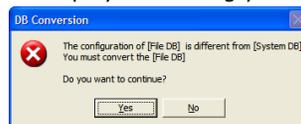
- The Upload DB option is used to write a previously saved database to a live system. The Upload DB option is only enabled if the Installation Tool is connected to a live system. After clicking this option a window will appear that allows you to locate the saved database you want to upload from your computer.



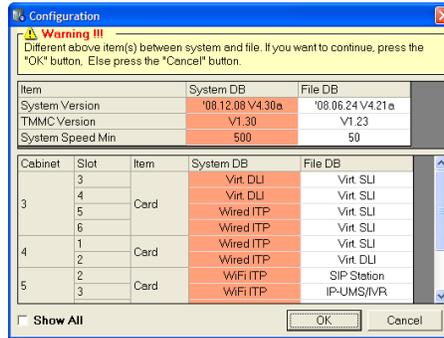
- After specifying a file a window will appear asking you to enter the password to access the database file. This is the password set at the time of the database download and not the system technician passcode used to access KMMC or the Installation Tool password used to log in to the system. If the password is entered incorrectly an error will be shown and you will have to try again.



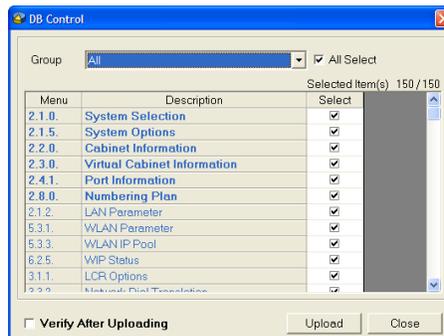
- Once the password is entered successfully the database file will be checked against the connected system. If the database file was created with an older version of software than is currently running on the system you will be prompted to convert the database. If you choose not to convert the database the upload process will be cancelled. If you choose to convert the database a window will be displayed showing you the conversion progress.



- After the version check routine has completed a hardware check will be performed to ensure the configuration matches between the connected system and the database. If any discrepancies are found a warning window will be displayed showing you the configuration conflicts. You may continue to upload and resolve the warnings later or you may cancel the upload process to resolve the issues before uploading. The **Show All** checkbox will display all database information instead of just the warning information.



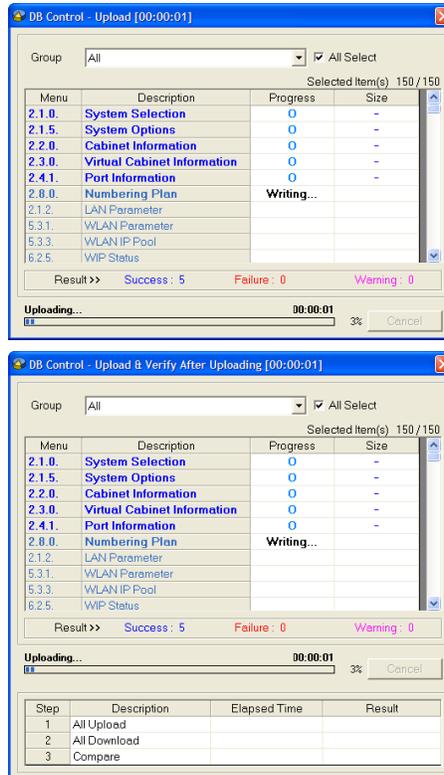
- DB Control window appears. This window is used to specify which programming options to upload. By default the All Select checkbox is checked, which means that the entire database will be uploaded. If you wish to specify only a certain set of options to upload uncheck the All Select box.



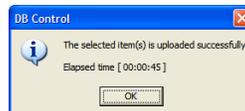
- The Group drop-down allows you to navigate through the programming option menu blocks to select items. There are 18 programming options that contain critical system profile information. These options are mandatory upload pieces and do not allow you to uncheck them. They are 2.1.0, 2.1.2, 2.1.5, 2.2.0, 2.3.0, 2.4.1, 2.6.9, 2.8.0, 3.1.1, 3.3.2, 3.3.4, 3.3.5, 4.1.1, 4.1.2, 4.2.1, 5.3.1, 5.3.3, and 6.2.5.
- Checking the **Verify After Uploading** checkbox will cause the Installation Tool to perform a validation check after the upload is complete to ensure all data has been written correctly. The validation check will upload the database and immediately download it again. The original database and the newly downloaded database will be compared to ensure data integrity.

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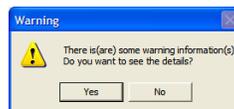
- After you have selected all items you want to upload click **[Upload]**. The screen will change to show you the status of the upload. If **Verify After Uploading** is checked the window will expand to include the status of the verification process.



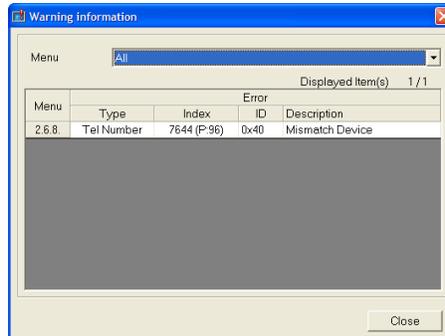
- When the upload is complete a result message will appear telling you how long the process took. Typical upload time is less than a minute. If **Verify After Uploading** was checked the result window will also display the time for each step of the verification process.



- If any warnings or error were encountered you will be prompted to view them after closing the result message window. You may click **[Yes]** to view the error or warning message details.



- The warning or error information will be displayed in a new window. The errors or warnings will be displayed by programming option number and device. A short description will alert you to the area you should look at in this programming option to resolve the error.



File Menu

➤ Open

The Open option is used to open a saved database for offline editing. After clicking this option a window will appear that allows you to locate the saved database you want to edit from your computer. The Open option is only enabled if no database is currently being edited and the Installation Tool is not connected to a live system.

➤ Close

The Close option is used to close the connection to a saved database that is being edited.

➤ Exit

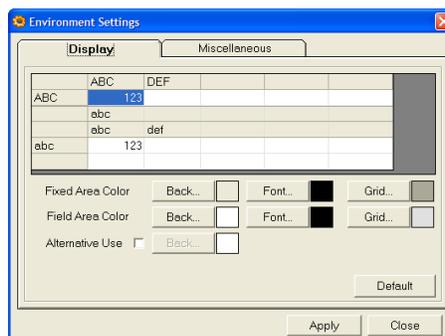
The Exit option is used to exit the Installation Tool application entirely. After clicking this option you will be prompted to confirm you wish to exit.

Option Menu

➤ Environment Settings

The Environment Settings option is used to set interface functionality for the Installation Tool. It has 2 main parts: Display and Miscellaneous.

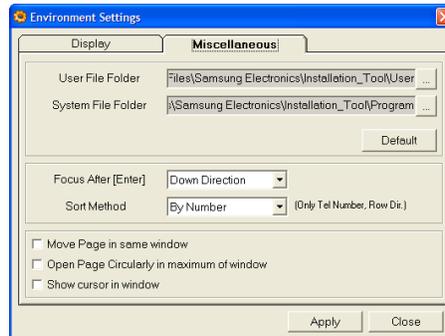
Display



The Display tab lets you set the test, grid, and background colors for cells in the programming options windows. **Fixed Area Color** sets information for row and column

names and headings. **Field Area Color** sets information for editable fields where you will be typing data. The **Alternative Use** checkbox lets you set an alternate row background color that will be used for the Field Area Color to enhance contrast when viewing multiple rows. Clicking **[Default]** will set all colors to the Installation Tool defaults.

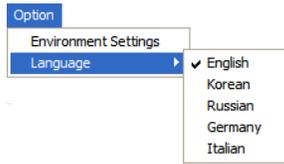
Miscellaneous



The Miscellaneous tab sets various options for the Installation Tool.

- **User File Folder** determines where downloaded databases will be stored by default.
- **System File Folder** sets the location where downloaded Media Card files will be stored by default.
- **Focus After [Enter]** determines which cell should be highlighted after you have hit the **[Enter]** key in a programming option. The options are Next Field, Next Record, Down Direction, and Right Direction. Next Field will take you to the right when editing row-based data and down when editing column-based data. Next Record will take you to the right when editing column-based data and down when editing row-based data. Down Direction will always take you down and the Right Direction will always take you to the right regardless of the data layout you are editing.
- **Sort Method** determines how to sort large tables of information. By Number will sort ports by phone number. By Port will sort ports by the order they appear in the cabinet.
- **Move Page in same window** will cause the Next and Previous buttons in the programming data pane to open each programming option in the same window rather than opening a new window for each option.
- **Open Page Circularly in maximum of window** will suppress the normal "Too Many Opened Windows" error and instead close the oldest programming option open and allow you to open the newly selected option.
- **Show cursor in window** will cause red arrows to appear in the programming option window showing you which cell you will be editing if you click your mouse.

➤ Language



The Language option is used to set the language for Installation Tool’s user interface. The default language is English. After clicking a new language a prompt will be displayed alerting you that all programming option windows will need to be closed in order to change the language. Clicking yes will immediately close all programming windows and set the new language.

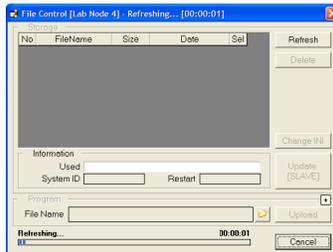


Changing the Installation Tool language does not make changes to any connected system or saved databases, it only changes the language used to display information through the Installation Tool.

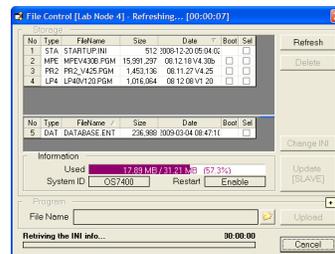
Util Menu

➤ File Control

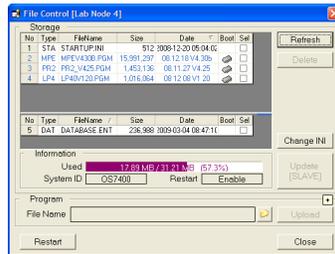
The File Control option allows you to connect to an OfficeServ™ 7000 Series system processor’s Media Card to view, add, or delete files. This is mainly for purposes of upgrading system or interface card software. Clicking the File Control option will cause the File Control window to open and attempt to connect to the Media Card of the currently active site. Upon successful connection File Control will download a list of files on the card.



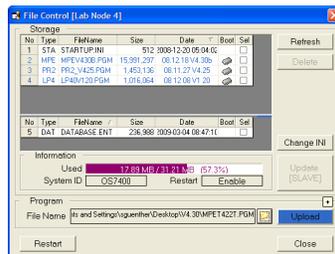
After downloading the file list the system initialization file will be downloaded. This “INI” file indicates which files will be used during the boot process. This is important when you have more than one version of software on the same Media Card. Boot file will be indicated with a small microchip icon (📷).



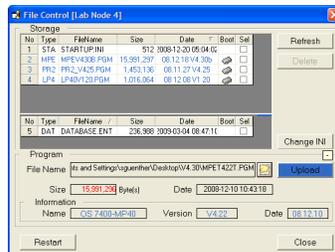
The File Control window is broken into several areas.



- The topmost section of the Storage pane lists the processor and interface card files.
- Below that is a list of saved databases on the card. These databases are created from a keyset using MMC 815.
- The Information pane contains space usage data about the Media Card as well as the system type and whether or not this system can be restarted by clicking **[Restart]**.
- The Program pane allows you to select a file to upload to the Media Card. Simply click the folder (📁) icon to browse for the file you want to upload.



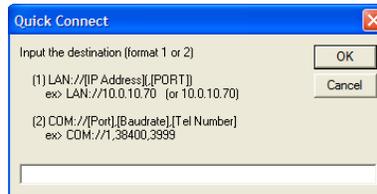
- The **[Refresh]** button will reload the Media Card file content.
- The **[Delete]** button will delete any files marked with a check in the Sel column from the Media Card and then refresh the screen.
- The **[Change INI]** button will create a new system initialization file indicating that any files marked with a microchip in the Boot column should be used for booting the system.
- The **[Update [SLAVE]]** button is for future use and can be ignored.
- The small "+" in the upper right corner of the will expand the Program pane to show details about files to be uploaded.



- The **[Upload]** button will upload the selected file to the Media Card and then refresh the screen.

➤ Quick File Control

The Quick File Control option is very similar to the Quick Connect option and is used to quickly make changes to Media Card files in a system you do not wish to create a site in Link Control for. When selected this menu option will open the following dialog box:



As shown, there are two options to connect: LAN or COM. LAN is used to connect to a system over a data network. COM is used to connect via MODEM.

LAN

For LAN connections there are two possible parameters: IP address and Port.

- The IP address parameter is mandatory and will typically either be the SYSTEM IP ADDR from MMC 830 if you are connecting from on site or SYSTEM PUBLIC IP from MMC 830 if you are at a remote location.
- The Port parameter is optional and determines the TCP port communications with the system will occur on. This parameter is optional because for most connections it will remain at the system default of 5090.

The command string for Quick File Control will be **LAN://<ipaddress>** when port is not specified and **LAN://<ipaddress>, <port>** when the port must be changed from 5090.

As an example, typing **LAN://10.0.0.1** into the text box and pressing **[OK]** will cause a connection to be made to IP address 10.0.0.1 port 5090.

COM

For COM connections there are three mandatory parameters: COM Port, Baud Rate, and Phone Number.

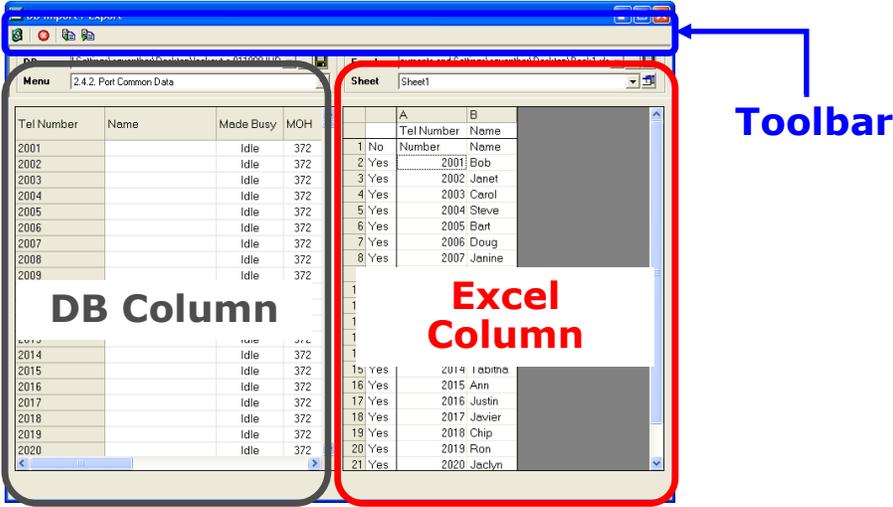
- COM Port determines the port on your PC that the MODEM is connected to. This can be obtained in Windows XP by clicking **[Start]** → **[Settings]** → **[Control Panel]** → **[Printers and Other Hardware]** and double-clicking **"Phone and Modem Options"**. Once loaded click the **Modems** tab and the COM port is listed under the column **Attached To**.
- Baud Rate determines the connection speed. This setting is typically 38400. The MODEMS will auto-negotiate a baud rate upon connection, so this parameter can safely be set at 38400 if the correct speeds are not known.
- Phone number tells the Installation Tool what number to dial after accessing the MODEM to connect to the system.

The command string for Quick File Control will be **COM://<port>,<baud>,<number>** for MODEM connections.

As an example, typing **COM://2,38400,5551234** into the text box and pressing **[OK]** will cause the MODEM on COM 2 to dial 5551234 and attempt to connect to the system at 38.4k baud.

➤ **DB Import / Export**

The DB Import/Export option allows you to export data from a saved database to an Excel spreadsheet or import data from a Microsoft Excel™ spreadsheet into a saved database. The DB Import/Export option is only enabled if no database is currently being edited and the Installation Tool is not connected to a live system

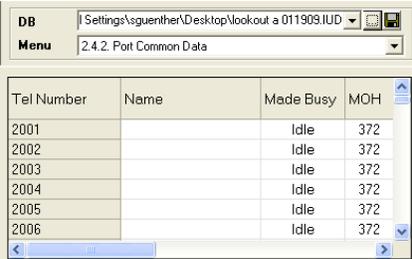


As shown above, the DB Import/Export window has three main components:

Toolbar

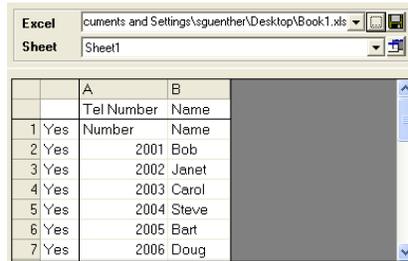
Icon	Name	Description
	Start / Refresh	Refresh the current Database and Excel™ sheet
	Close	Close the DB Import/Export window
	Copy to Left	Import selected data from the Excel™ sheet to the Database
	Copy to Right	Export data from the database to the Excel™ spreadsheet

DB Column



The DB Column is where you choose a database to export from or import to. It also allows you to select which programming option to import to or export from and lets you view the data in that programming option.

Excel™ Column



The Excel™ Column is where you choose an Excel™ spreadsheet to export to or import from. It also allows you to select which sheet in the workbook to import from or export to and lets you view the data in that sheet.

Importing Data to the Database

- Select a database to import to by clicking the [...] button in the DB column and browsing to the file.
- Enter the password for the database
- Select a programming option to import to from the Menu drop-down.
- Select an Excel™ spreadsheet to import from by clicking the [...] button in the Excel™ column and browsing to the file.
- Select a sheet to import from using the Sheet drop-down.
- In the leftmost column of the Excel™ data pane set Yes for the items you wish to import and No for the items you wish to skip. By default all items are Yes.
- Click the Copy to Left icon (📄) in the toolbar.
- Click the Save button (💾) in the DB column to save changes to the file.

Exporting Data from the Database

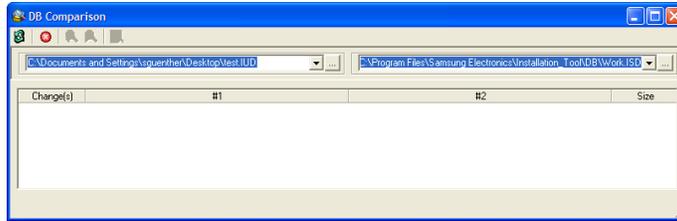
- Select a database to export from to by clicking the [...] button in the DB column and browsing to the file.
- Enter the password for the database
- Select a programming option to export out of from the Menu drop-down.
- Select an Excel™ spreadsheet to export to by clicking the [...] button in the Excel™ column and browsing to the file.
- Select a sheet to export to using the Sheet drop-down. You can export to a new sheet by clicking the New Sheet icon (📄)
- Click the Copy to Right icon (📄) in the toolbar.
- Click the Save button (💾) in the Excel™ column to save changes to the file.



The Installation Tool only allows the use of .XLS Excel™ files. This is the format used by Microsoft Office™ 2003 and older. Office™ 2007 uses an .XLSX format by default, which is incompatible. To create Installation Tool compatible Excel spreadsheets with Office™ 2007 you must choose to save the file as **Excel 97-2003 (.XLS)**.

➤ **DB Comparison**

The DB Comparison option lets you compare two databases to find any differences between them. This is extremely useful when troubleshooting conversion or upgrade issues.



The DB Comparison window has three basic pieces: the Toolbar, the Database Selection Row, and the Results Pane.

Toolbar

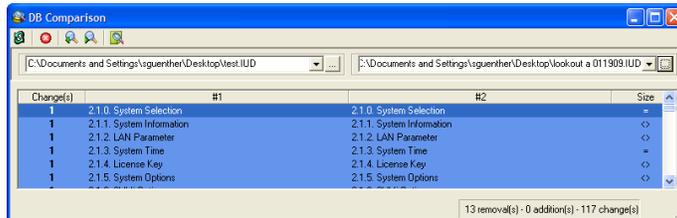
Icon	Name	Description
	Compare / Refresh	Start the DB Comparison process
	Close	Close the DB Data Comparison window
	Previous	Select the previous mismatch in the list
	Next	Select the next mismatch in the list
	View Details	Opens a new window showing details of the currently selected mismatch

Database Selection Row

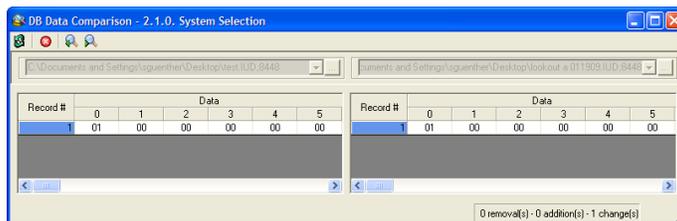
Click either [...] button to select the databases for the comparison operation. Then click the Compare button () in the Toolbar to start the comparison.

Results Pane

The results pane will display the list of mismatched programming options (programming options that are different between the two databases).



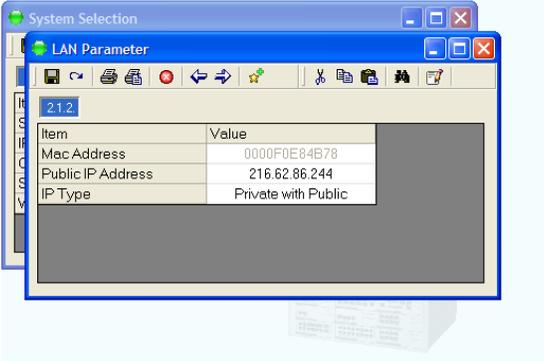
If you click the View Details button in the Toolbar you can view the raw data for the changes. The details are listed in hexadecimal and are shown only for your reference.



Windows Menu

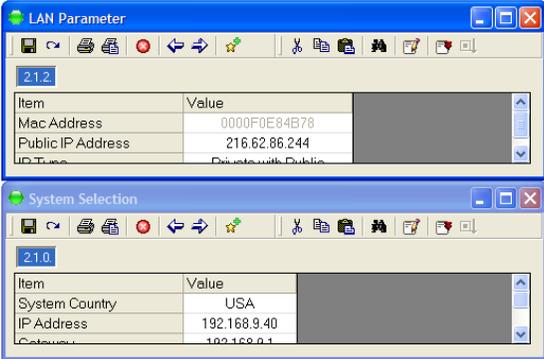
➤ Cascade

The Cascade option will sort all open programming options in a staggered layout as shown below. This is useful when you have several options you want to edit in sequence rapidly.



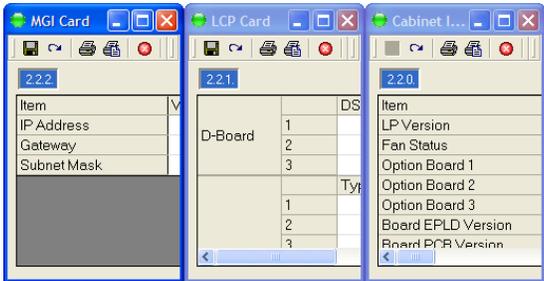
➤ Tile Horizontally

The Tile Horizontally option will rearrange all open programming option windows into equal sized horizontal rows as shown below. This is useful when trying to compare two similar programming options.



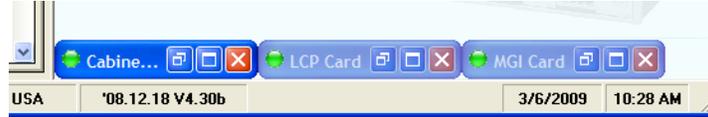
➤ Tile Vertically

The Tile Vertically option will rearrange all open programming option windows into equal sized vertical columns as shown below. This is useful when trying to compare two similar programming options.



➤ **Arrange Icons**

Arrange Icons will minimize all open programming option windows into small bars along the bottom of the Programming Data Pane as shown below. This is handy when you have a large

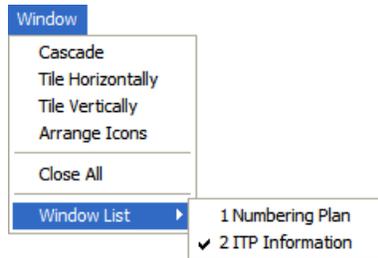


number of options open and you want to close a selected few rapidly.

➤ **Close All**

The Close All option will simultaneously close all open programming option windows. If any options have unsaved changes you will be prompted whether or not you wish to save changes.

➤ **Window List**



The Window List option is only available if more than one programming option is open simultaneously. The Window List will display all currently open programming options as shown above. You can select which option is currently displayed for editing by clicking an item from the list.

Help Menu

➤ **Compatibility Table**

Installation Tool	System				
	OS7100	OS7200	OS7400	OS7030	OS7070
V1.29	-	-	-	-	V1.00
V1.29a	-	-	-	-	V1.01
V1.30	V4.30	V4.30	V4.30	V4.30	V4.30
V1.30a	V4.30a	V4.30a	V4.30a	V4.30a	V4.30a
V1.30b	V4.30h	V4.30h	V4.30h	V4.30h	V4.30h
V1.30c	V4.30k	V4.30k	V4.30k	V4.30k	V4.30k
V1.40	V4.40	V4.40	V4.40	V4.40	V4.40
V1.43	V4.41	V4.42	V4.42	V4.41	V4.43
V1.43a	V4.41a	V4.42a	V4.42a	V4.41a	V4.43a
V1.43b	V4.41b	V4.42b	V4.42b	V4.41b	V4.43b
V1.46	V4.46	V4.46	V4.46	V4.46	V4.46
V1.46a	V4.46a	V4.46a	V4.46a	V4.46a	V4.46a
V1.46c	V4.46c	V4.46c	V4.46c	V4.46c	V4.46c
V1.46d	V4.46d	V4.46d	V4.46d	V4.46d	V4.46d

The Compatibility Table window displays a list of systems and software versions the Installation Tool is compatible with.



The Installation Tool may connect to systems running software versions that are not listed in the compatibility table, but these connections should be avoided as differing compatibilities may cause data loss.



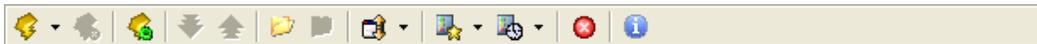
The OS7030 and OS7070 systems listed in the compatibility chart are not for sale in the United States, so these columns should be disregarded.

➤ About



The About menu option will display the Installation Tool software version and date code for easy reference.

Toolbar



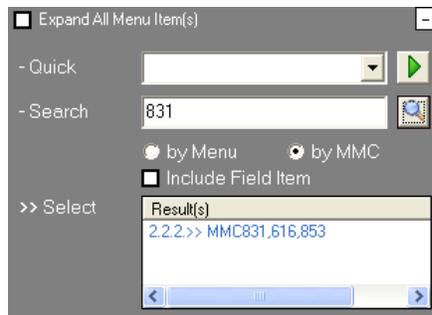
The quick access toolbar allows you to use the most common features of the Installation Tool, such as connecting to a system or downloading a database, from a single click. The toolbar can be customized to add or remove options by double-clicking any empty space in the toolbar. By default all options are added to the toolbar.

TOOLBAR ICON FUNCTION DESCRIPTIONS

Icon	Name	Description
	Connect	Connects to the currently active site in the Link Control window
	Disconnect	Disconnects from the system you are currently connected to
	Link Control	Opens the Link Control site management window
	Download Database	Downloads the programming database for the system you are currently connected to
	Upload Database	Uploads a saved programming database to the system you are currently connected to
	Open Database	Opens a previously saved database for editing
	Close Database	Closes the saved database you are currently editing

Icon	Name	Description
	File Control	Opens the Media Card browser window
	Bookmarks	Accesses your personal list of most-accessed programming options
	History	Accesses programming options you have recently closed
	Exit	Exits the Installation Tool
	About	Displays version information for Installation Tool

Search Pane



The search pane is used to look up a programming option's menu number by name, field, or by MMC number. This is useful when you aren't sure exactly which menu option contains the information you want to change. The box in the upper right hand corner shows or hides the Search Pane.

Quick

Allows you to select a programming option from the drop down list to directly load without having to use the search function or find it manually in the menu tree. Simply select an item from the drop-down list and then press the green arrow to the right of the drop-down box.

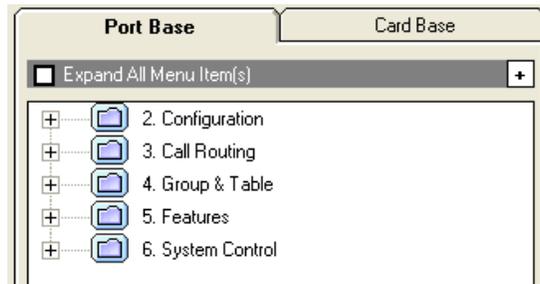
Search

The text box is used to enter your search criteria. Press the magnifying glass icon to perform the search. The radio buttons below the search box toggle whether to do a text search of programming option names or a numeric search of MMCs. The "Include Field Item" checkbox can be used to search programming fields inside of programming options instead of programming option names.

Select

This area displays the search results (if any) for the current search. To load a programming option, simply double-click the entry in the Select box.

Programming Option List



The programming option list displays all programmable options of the current system. It is divided into the Port Base and Card Base panes.

Port Base

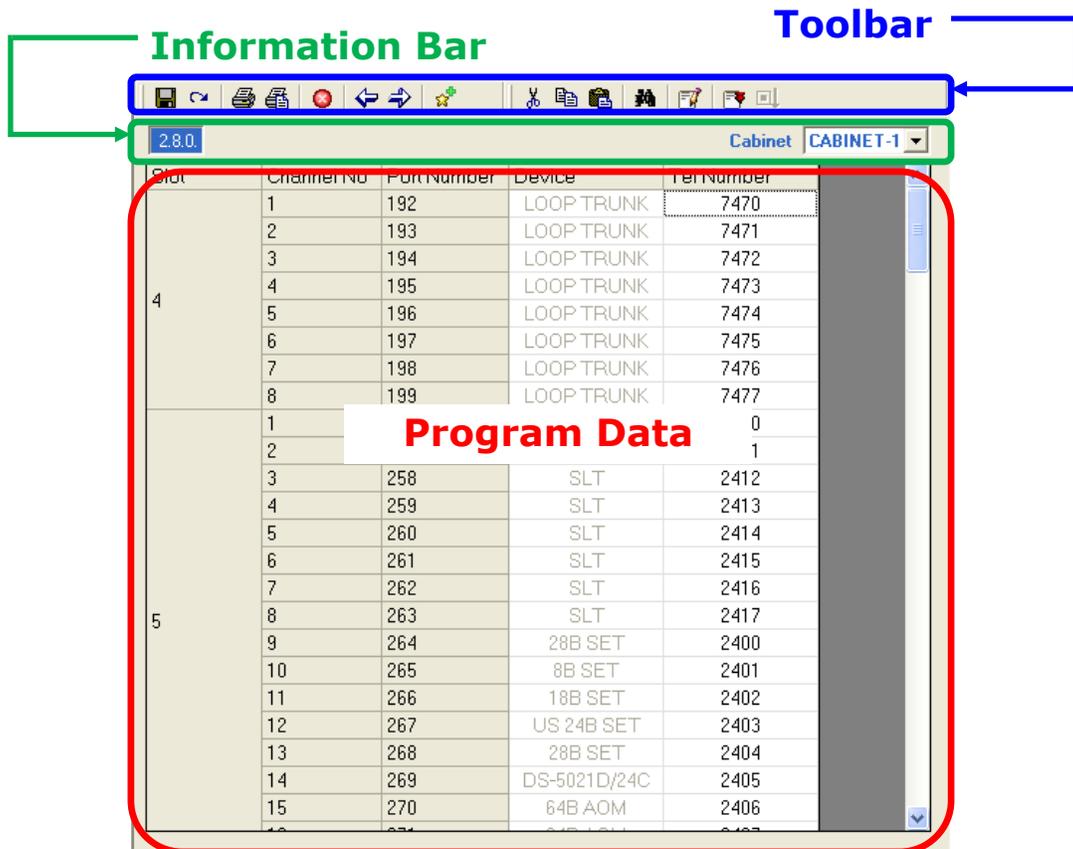
This pane displays all programming options for the current system in a menu tree format. Double-click the menu item to open its' contents. The "Expand All Menu Item(s)" checkbox will automatically expand the entire menu tree to save time searching for the menu you are looking for. Hovering over a programming option in the menu tree will show a tooltip displaying the MMC number or numbers related to this option.

Card Base

This pane displays the current system's physical structure. All cabinets will be displayed, as well as cards in those cabinets. Note that if an expansion cabinet is not installed it may still be displayed, but with only an LCP card installed. Click on a card slot to open a special programming option display that will have buttons for all menu options relating to the current card type or click the red checkmark to open information on the cabinet itself. Note that programming options opened in this manner cannot be added to your bookmarks list.

Programming Data Pane

The programming data pane is where most of your work in the Installation Tool will happen. This is the area where programming option data will be presented and where changes can be made. Each programming option has unique fields and characteristics, but all share some common traits as shown below:



Program Data

This is where you will actually make changes to data. Each programming option is displayed in a table format.

- Fields with a grey background are headers and contain such data as port numbers and timer names.
- Fields with grey text on a white background are read-only data fields meant for reference only.
- Fields with black text on a white background are editable data. To change data you can click the field and type your entry, or double-click the field to edit the existing data.

Information Bar

The information bar will always display the current programming option menu position, such as 2.1.1 or 5.1.7, to help you keep track of which programming option you are currently viewing. If you have opened a programming option from the Card Base view, this area will also contains buttons linking to other programming options.

In addition to this, some programming options also contain additional filters which are displayed as drop-down boxes in the information bar. These filters include such things as class of service or cabinet number and are used to help reduce the quantity of data displayed on the screen at once. This helps to reduce download times and also increase readability for you.

Toolbar

The toolbar is used to perform actions related to programming data, such as saving, copy/pasting, or sorting. This toolbar is separate from, and is displayed below, the main Installation Tool toolbar. Similar to the main Installation Tool toolbar, this toolbar can be customized by double-clicking any empty space.

PROGRAMMING DATA TOOLBAR ICON FUNCTION DESCRIPTIONS

Icon	Name	Description
	Save	Saves your programming changes for the current option
	Reload	Reloads the data for current programming option from the system
	Print	Prints the current programming option data table to a printer
	Print to Clipboard	Prints the current programming option data table to the clipboard for pasting into another application
	Close	Closes the current programming option.
	Previous	Opens the next programming option (i.e.- if viewing 2.1.0 this will load 2.1.1)
	Next	Opens the previous programming option (i.e.- if viewing 2.1.1 this will load 2.1.0)
	Add to Bookmarks	Adds this programming option to your bookmarks list. This list can be accessed from the main Installation Tool toolbar.
	Cut	Deletes the current field selection and places it in memory for later pasting
	Copy	Copies the current field selection to memory for later pasting
	Paste	Writes previously cut or copied field selections to the currently selected field or fields
	Find	Searches inside a programming option for specific text
	Repeat	Automatically fills a sequence of fields based on your criteria. A dialog will be displayed asking what the starting number should be and what the increment should be.
	Focus After [Enter]	Determines which field should be the next field for data entry after you press [Enter] . The options are Below or Right. Default is Below.

Icon	Name	Description
	Sort Method	Determines the sort order for the programming option. When the square icon is displayed the sort is in order of Port Position in the system. When the telephone icon is displayed the sort is in order of Station Number.

Status Bar



The status bar displays helpful reference information about current activity. It is divided into 8 sections as follows:

Connection Status

Displays whether you are Online (Connected to a live system) or Offline (disconnected or editing a saved database)

Connection Information

Displays the system you are currently connected to. If you are connected to a Quick Connect connection this will be the IP address or phone number used to access the system. If you are connected to a connection from the Link Control list this will display the connection name in addition to the IP address or phone number.

OfficeServ™ System Type

Displays the current OfficeServ™ 7000 Series system type you are connected to (OS7100, OS7200, and OS7400)

Country Code

Displays the country code the current system is set to

System Version

Displays the MP software version of the currently connected system

Action Information

This area shows information about the current activity. When editing a field in a programming option this area will show the valid data values for the field.

Date

Displays the current date

Time

Displays the current time