



Enterprise IP Solutions

OfficeServ 7000 Series

Installation Tool User Guide

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Samsung Telecommunications America

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INTRODUCTION

Purpose

This User Guide contains an introduction, installation, and user information section for the OfficeServ 7000 Series Installation Tool. The Installation Tool is a PC-based MMC (Man Machine Communication) application designed to configure the OfficeServ 7000 Series key phone systems.

Document Content and Organization

This User Guide is comprised of five chapters.

[CHAPTER 1 : Installation Tool: Introduction](#)

In this chapter, a brief introduction to the Installation Tool application and its main functions are discussed.

[CHAPTER 2 : Installation Tool: Installing the Application](#)

In this chapter, the installation environment and specific directions on how to install/uninstall the Installation Tool application are discussed.

[CHAPTER 3 : Installation Tool: How To Use](#)

In this chapter, the steps on how to use the Installation Tool and use its menus are discussed in detail.

[CHAPTER 4 : Application Windows and Programming Example](#)

In this chapter, the Application Windows (which are used to set the OfficeServ 7000 Series parameters) are discussed. Examples of some programming steps are also provided.

[CHAPTER 5 : MMC and Installation Tool Cross Reference](#)

In this chapter, cross reference information between the Installation Tool Menu numbers and MMC numbers are provided.

Conventions

The following types of paragraphs contain special information that must be carefully read and thoroughly understood. Such information may or may not be enclosed in a rectangular box, separating it from the main text, but will always be preceded by an icon and/or a bold title.

**WARNING**

Provides information or instructions that the reader should follow in order to avoid personal injury or fatality.

**CAUTION**

Provides information or instructions that the reader should follow in order to avoid a service failure or damage to the system.

**CHECKPOINT**

Provides the operator with checkpoints for stable system operation.

**NOTE**

Indicates additional information as a reference.

**EXAMPLES**

Indication that there is a application example which should be remembered.

Console Window Output

- The lined box with ‘`Courier New`’ font will be used to distinguish between the main content and console output window text.
- ‘**`Courier New`**’ font will indicate the value entered by the operator on the console window.

Revision History

EDITION	DATE OF ISSUE	REMARKS
00	03. 2008.	Original

PRECAUTIONS

In order to ensure product safety and proper operation, information presented with the following icons should be carefully read before installing or using the product:

Symbols

**Caution**

Indication of a general caution.

**Restriction**

Indication for prohibiting an action for a product.

**Instruction**

Indication for commanding a specifically required action.

CAUTION



Caution when installing/uninstalling the IT

Existing data may be lost during installation/uninstallation of the IT. Backup all OfficeServ system data before proceeding.



Caution when uploading

When uploading an OfficeServ system database, the card slot configuration of the database being uploaded should be identical to the key phone system's card slot configuration. It may be necessary to reboot the OfficeServ 7000 system after the upload procedure (the technician will be prompted with a message.) To protect memory data from accidental deletion, please ensure that the MP10/MCP/MP40 card's backup switch is set to the **[ON]** position.

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CHAPTER 1 Installation Tool: Introduction

In this chapter, a brief introduction to the Installation Tool application and its main functions are discussed.

Introduction to the Installation Tool

The Installation Tool (IT) is a PC-based Man Machine Communication (MMC) program designed to help phone system administrators by eliminating multiple types of system programming utilities (Web MMC, OSM.) The IT works on a PC (see page 3 for PC OS requirements) and connects to all the OfficeServ 7000 Series systems (see page 4 for OfficeServ software requirements) over a LAN, WAN, or modem connection.

This single application solution makes it easy and convenient for system administrators, because the IT's user-friendly GUI can be utilized to change system, station, and trunk parameters, save or restore system databases, and perform file management functions (write files to the Smart Media or MMC Plus Cards) on all of the OfficeServ 7000 Series systems.

With IT it is now possible to compare OfficeServ 7000 Series databases, which makes it simple for system administrators to verify and pinpoint modifications in the system programming from one database to another. The IT can also be configured with convenient bookmarks, which offers simple one click access to the most commonly used parameters.

Although the programming structure of the IT has moved away from a purely MMC design it is still possible to correlate the IT Menu numbers with specific MMC numbers. By using the “**by MMC**” search field and “**MMC Mouse Over**” feature it is easy to determine which IT Menu belongs to which MMC number.

Functionality

Easy Management of System Databases

The IT manages all of the OfficeServ 7000 key phone systems from a single application. Phone system administrators use the IT Link Control window to log into any OfficeServ 7000 Series system. This eliminates the need of requiring multiple types of system programming utilities (Web MMC, OSM.)

Uploading and Downloading OfficeServ 7000 Series System Databases

The IT can be used to download an OfficeServ 7000 Series key phone system database to a PC or to upload a key phone system database system from a PC to an OfficeServ 7000 key phone system.

Offline Database Programming

The IT can be used to download an OfficeServ 7000 Series key phone system database. Once downloaded, the phone system administrator can make programming changes to the downloaded database while off-line. The modified database can then be uploaded to an OfficeServ 7000 key phone system. (The card configuration of the OfficeServ 7000 Series system database and OfficeServ 7000 Series system must match.)

Uploading and Deleting OfficeServ Application Files

The IT can be used to upload OfficeServ application files to the OfficeServ 7000 key phone system or to delete an OfficeServ application file from the system. These files are used for upgrades to the Operating System of an OfficeServ 7000 Series system, and for LCP, LP40, and TEPRI card software upgrades.

Local and Remote Administration

The IT works on a PC running Windows 98, 2000, XP, and Vista, and connects to all the OfficeServ 7000 Series systems running MP10/MCP/MP40 version 4.XX or higher (see page 4 for OfficeServ software requirements) over a LAN, WAN, or modem connection.

OfficeServ 7000 Database Comparing

The IT can compare OfficeServ 7000 Series databases. This valuable tool makes it simple for phone system administrators to verify and pinpoint modifications in the system programming. The databases being compared must be from the same OfficeServ 7000 Series type. (OfficeServ 7400 to OfficeServ 7400.)

Menu Bookmarks

For IT menus that are accessed on most OfficeServ 7000 Series system installations (such as menu 2.1.2 - used for entering the IP Address of the MP10, MCP, and MP40) the IT can be configured with menu bookmarks, which offer simple one-click access.

Search by MMC or by IT Menu Number

The IT has a search window that can be set to search by MMC number or by IT menu number. This feature makes it is easy for the phone system administrators to determine which IT menu belongs to which MMC number and vice versa.

CHAPTER 2 Installation Tool: Installing the Application

In this chapter, the installation environment and specific directions on how to install/or uninstall the Installation Tool (IT) application are discussed.

Installation Environment

This section provides a list of the IT installation package items as well as the minimum PC requirements for a successful installation.

Package Items

- Installation File: IT(yy.mm.dd.)zip
- User Guide



NOTE

Package

The file name formatting IT(yy.mm.dd.)zip: yy.mm.dd refers to the release date/version.
(ex: IT(070615.)zip)

Minimum PC Requirements

Listed below are the minimum PC requirements for the IT to function properly.

H/W	Requirement	
PC	CPU	Pentium III or faster
	Main Memory	Minimum of 512 MB
	HDD Drive	At least 30 MB
	Operating Systems	Microsoft Windows 98
		Microsoft Windows 2000 (all editions)
		Microsoft Windows XP (all editions)
		Microsoft Windows Vista (all editions)
Modem	1,200~115,200 baud rate when using a modem connection to the OfficeServ 7000 system	
LAN (Ethernet)	10/100 Base-T when using a LAN/Internet connection to the OfficeServ 7000 system	

Minimum OfficeServ 7000 Series Software Version Requirements

Listed below are the minimum phone system software requirements for the IT to function properly.

H/W	Minimum Software Version Requirement
7100 MP10	Version 4.04a
7200 MCP	Version 4.14k
7400 MP40	Version 4.14k

**When installing or uninstalling the IT**

Samsung recommends backing up all 7000 Series System databases to a safe location before proceeding with an installation/uninstallation of the IT.

Installing the Application

The installation procedure for the IT application is as follows:

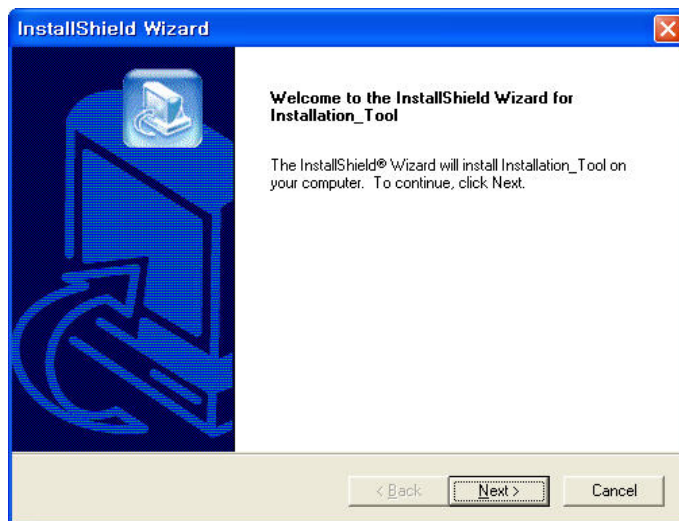


NOTE

Install/Uninstall Procedure

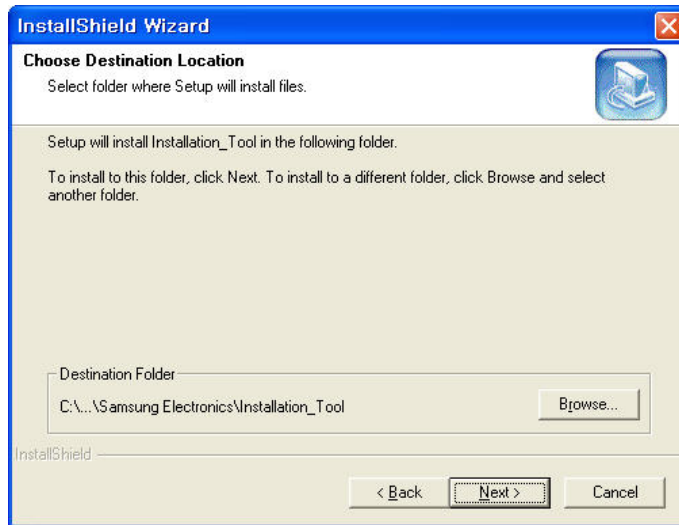
The windows seen during the installation of the IT application may vary depending upon the Operating System being used on the PC. The Install and Uninstall process documented in the manual was gathered using the Windows XP Professional Operating System.

1. Unzip the installation file if needed and then launch the 'Setup.exe' file. The following setup window will be displayed:

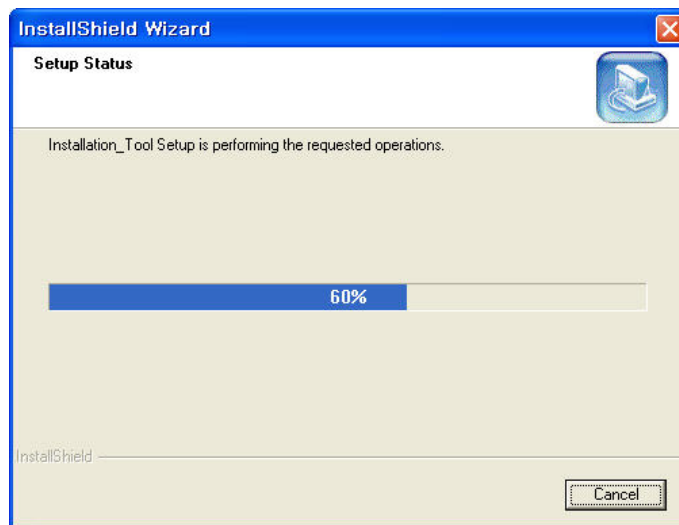


2. On the <Welcome> window, click on the [**N**ext>] button to initiate the installation process.

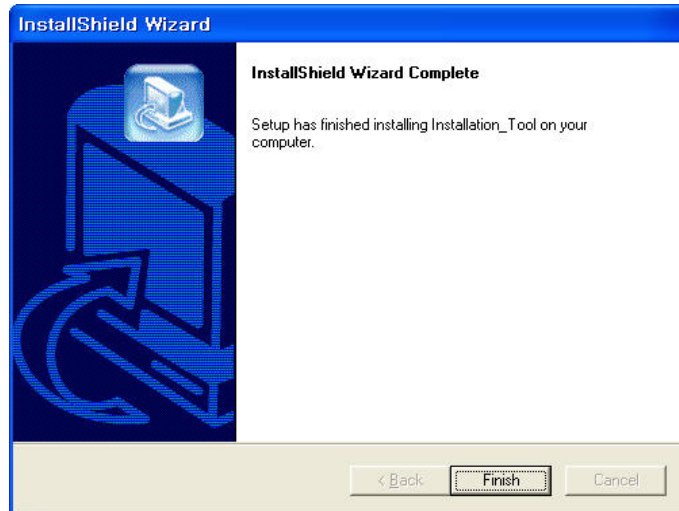
3. On the <Choose Destination Location> window, click on the **[Browse...]** button and select the location where the application is to be installed. Click on the **[Next>]** button to continue the installation.



4. The following progression bar is displayed to indicate that the application is being installed. To cancel the installation, click on the **[Cancel]** button.



5. When the InstallShield Wizard finishes installing the application, the following window will be displayed:

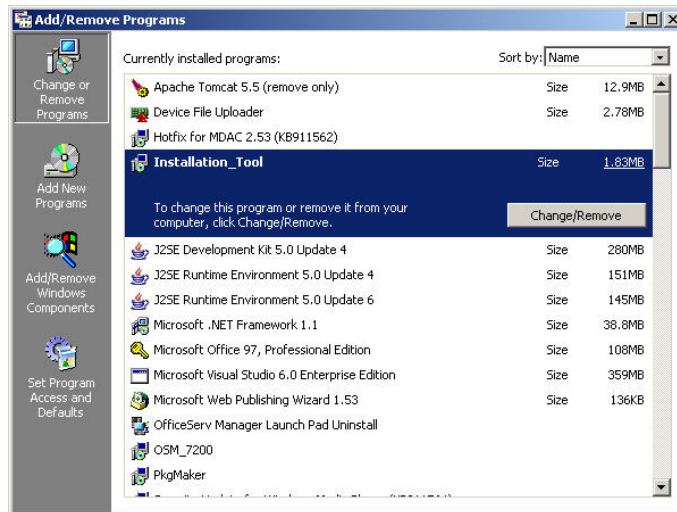


6. Click on the **[Finish]** button to close the window.

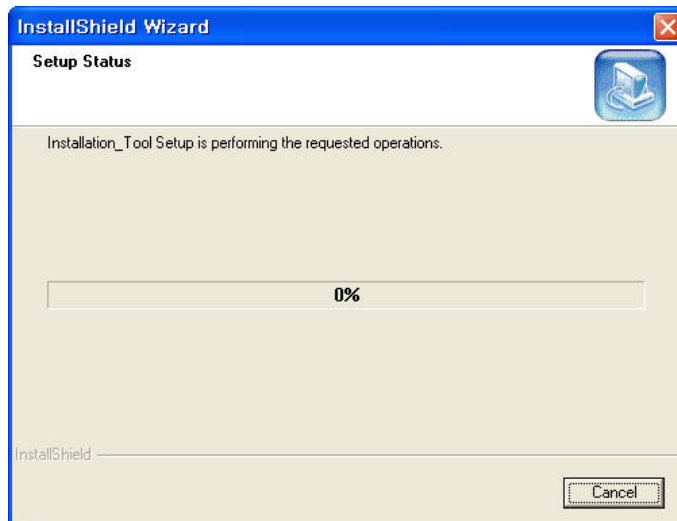
Uninstalling the Application

To uninstall the IT application, proceed as follows:

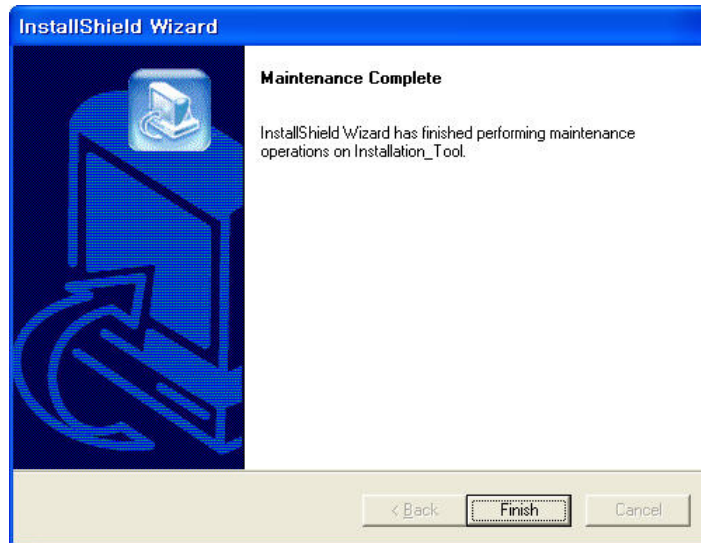
1. From the Windows Taskbar, click on **[Start] → [Settings] → [Control Panel] → [Add/Remove Applications]**. From the list, select **[Installation Tool]** and click on **[Change/Remove]**.



2. The following progression bar will be displayed to indicate that the IT application is being uninstalled:



3. When the InstallShield Wizard finishes uninstalling the IT application, the following window will be displayed:



4. Click on the **[Finish]** button to close the window.

CHAPTER 3 Installation Tool: Usage

In this chapter, the steps on how to use the Installation Tool and use its menus are discussed in detail.

Launching the Installation Tool

After a successful installation of the IT application, it is ready to be launched.

There are two different ways to launch the IT application:

- From the Windows Taskbar, click on [Start] → [All Programs] → [Samsung Application Program Module] → 'Installation Tool'.
- From the desktop, double-click the  icon.

When the IT application is launched, the following window will be displayed:

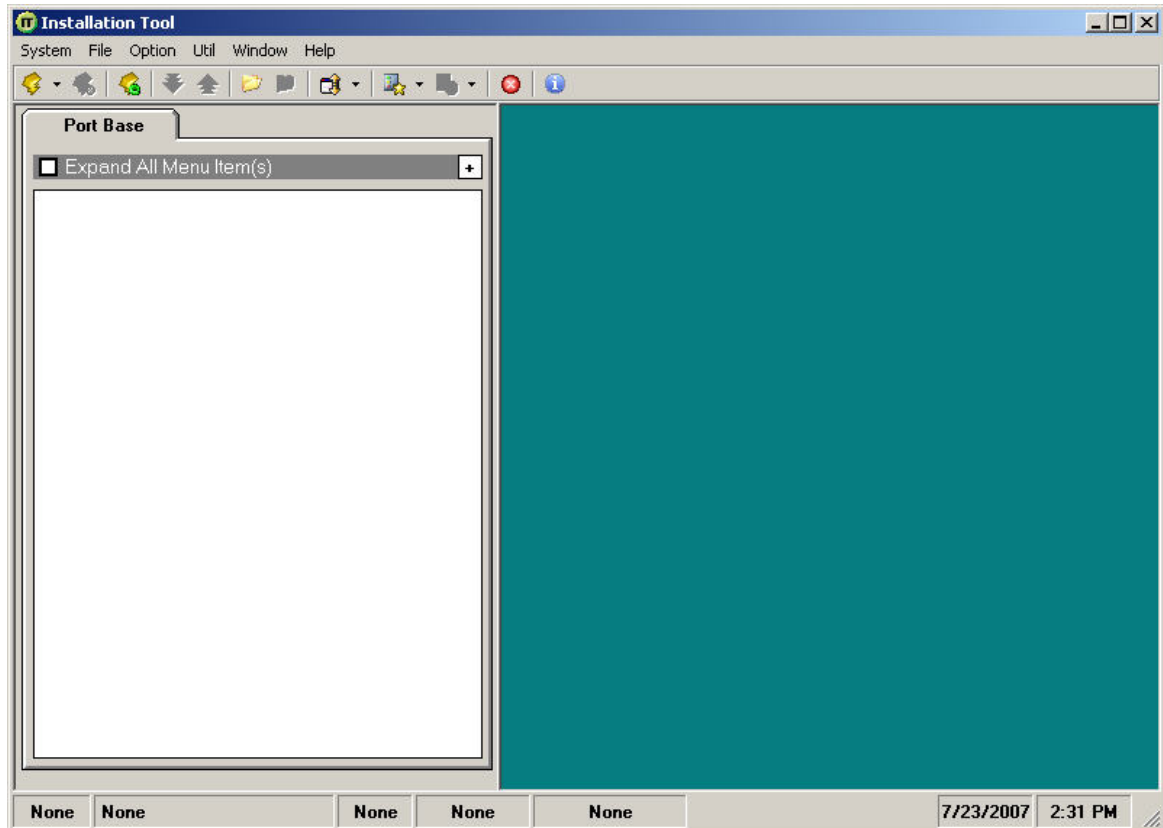


The Installation Tool Version number is displayed in the lower right hand corner of the launch window.

Once Installation Tool has been opened, the version level may also be viewed by selecting “Help” and “about”.

Window Layout

Once the login process has been completed, the main window of the IT application will be displayed:



The details for the window layout are listed in the following table.

Window Layout	Details
Menu	Displays all the menu functions used in the application (System, File, Option, Util, Window, and Help.)
Toolbar	Displays the most commonly used functions (The icons in the Toolbar are covered in the IT Main Window Toolbar Icon section of this User Guide.
Main Window	Displays the selected function on the window.
Menu Window	Displays the parameter window and the page index.
Status Bar	Displays information such as online time/user DB file name, system type/locale/version, date and time.

IT Main Window Toolbar Icon

The IT Toolbar and various windows have several icons that are used to perform various functions. The following table presents several details of the icons found throughout the IT.

Icon	Details
	Connect: Used to connect the user's PC with the key phone system (MP10/MCP/MP40) selected in the Link Control window.
	Disconnect: Used to disconnect the user's PC from the key phone system being managed.
	Link Control: Used to open the Link Control window which is used to configure the OfficeServ 7000 sites being managed.
	Download DB: Used to download an OfficeServ 7000 Series system database file from the MP10/MCP/MP40 to a user's PC.
	Upload DB: Used to upload an OfficeServ 7000 Series system database file from the user's PC to an MP10/MCP/MP40.
	Open: Used to open an OfficeServ 7000 Series database file.
	Close: Used to close an OfficeServ 7000 Series database file.
	File Control: Used to upload/delete a file on the OfficeServ 7000 Series system.
	Bookmark: Used to manage bookmarked windows/files/displays of the OfficeServ 7000 Series page index.
	History: Used to delete the historical information on previously opened windows/displays of the page index.
	Exit: Used to terminate the IT application.
	Information: Used to display the IT application version number and creation date.

System Menu

The **[System]** menu provides functions such as connecting or disconnecting from an OfficeServ 7000 Series system, uploading and downloading the database from an OfficeServ 7000 Series system, and opening the Link Control window.



NOTE

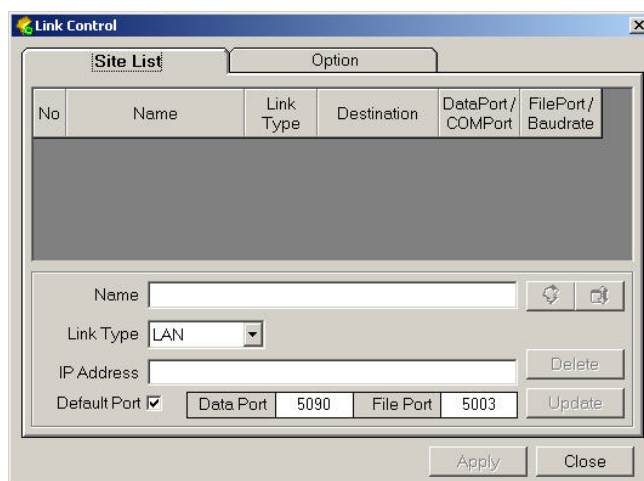
Using the [System] Menu

The **[System]** menu's **[Link Control]** can only be used when the IT is not connected to a system. The **[Download DB From System]** and **[Upload DB To System]** options can only be used when logged into a system.

Link Control

Site List

In order to connect to an OfficeServ 7000 Series system the site information must be entered into the Link Control. The **[Link Control]** sub-menu is used to configure the communication environment between the IT and the OfficeServ 7000 Series key phone system(s.) Click on the **[System] → [Link Control]** sub-menu and the following window will be displayed:



Refer to the following table for a description of each Link Control parameter.

Field	Details	
Name	Used to enter the name of the customer site.	
Link Type	Used to select the connection type for the PC doing IT administration.	1. LAN – Local Area Network 2. MODEM (Not supported on the OS 7200.)
IP Address	If the Link type is set to LAN, this parameter can be modified. Enter the IP Address assigned to the MP10/MCP/MP40.	
Telephone	If the Link type is set to Modem, this parameter can be modified. Enter the phone number associated to the OfficeServ 7000 Series system modem (Not supported on the OS 7200.)	
Data Port	If the Link type is set to LAN, this parameter can be modified. Enter the port number that the IT will use to connect to the MP10/MCP/MP40 over the LAN connection (only use in specific circumstances such as NAT.)	
File Port	If the Link type is set to LAN, this parameter can be modified. Enter the port number that the IT will use for file transfers to the MP10/MCP/MP40 over the LAN connection (only use in specific circumstances such as NAT.)	
COM Port	If the Link type is set to Modem, this parameter can be modified. Select the modem's COM port.	
Baud rate	If the Link type is set to Modem, this parameter can be modified. Select the appropriate modem speed.	
[Delete] Button	Used to delete the selected site information.	
[Update] Button	Used to store the selected site information.	
[Apply] Button	Used to select the site which the IT will connect to when the [Connect] button is clicked.	
[Close] Button	Used to close the Link Control window.	

The Two [Link Type] Settings

From the <Link Control> window's **[Link Type]** field, select one of the two following connection methods.

- Modem: Use the PC's modem to connect to the key phone system.
(COM 1~10: We suggest using an external modem for this purpose.)
- LAN: Use the PC's LAN to connect to the key phone system.
(You may use a cross-over LAN cable to connect directly to the key phone system's LAN port. Alternatively, you may use a straight LAN cable to connect to the network.)

If the Link Type for a particular site is set to LAN, an IP address must be obtained from the System Administrator. This IP address may be programmed into the system using MMC 830. Once programmed, the same IP address must be entered on the IP Address line in Link Control. Enter the IP Address of the MP10/MCP/MP40 card and then click the [Update] button to save the change. If different ports need to be used, then uncheck the [Default Port] box and then enter the appropriate port information for the [Data Port] (MP10/MCP/MP40 Connectivity) and the [File Port] (Upload Files to Storage Media.)

The screenshot shows the 'Link Control' window. It has two tabs: 'Site List' and 'Option'. The 'Site List' tab is active, displaying a table with the following data:

No	Name	Link Type	Destination	DataPort / COMPort	FilePort / Baudrate
1	7100 Site A	LAN	216.62.86.101	5090	5003
2	7200 Site B	LAN	216.62.86.102	5090	5003
3	7400 Site C	LAN	216.62.86.103	5090	5003

Below the table, there are input fields for configuring a site:

- Name: 7100 Site A
- Link Type: LAN (dropdown menu)
- IP Address: 216.62.86.101
- Default Port: ☒ (checkbox)
- Data Port: 5090
- File Port: 5003

Buttons include 'Delete', 'Update', 'Apply', and 'Close'. There are also icons for connecting to the site (a yellow diamond) and uploading files (a folder icon).



Entering the system IP

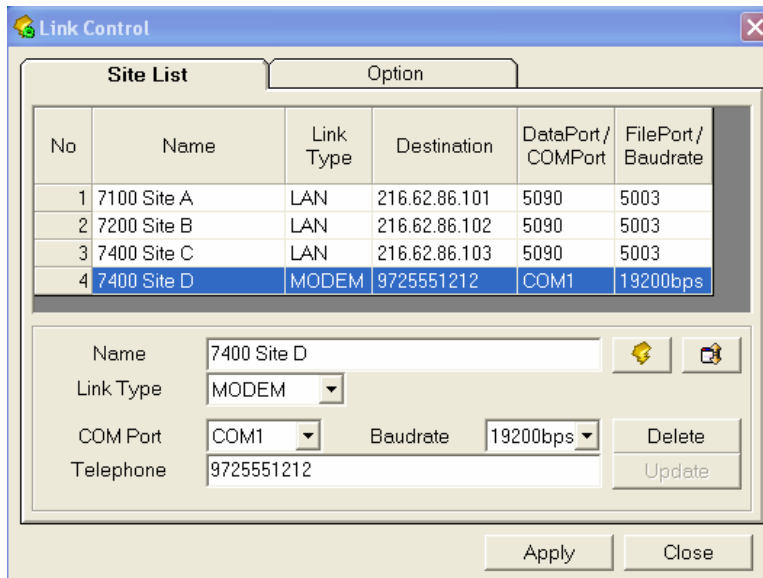
The IP address field in the IT refers to the OfficeServ 7000 Series system's IP address to which the IT will connect. The information can be verified by logging into an OfficeServ 7000 Series system via KMMC, and then by viewing MMC 830 'ETHERNET PAR'.

Once a site is defined and highlighted in the top section of the <Link Control> window (like in the picture above), simply click on the  icon to connect to the MP10/MCP/MP40.

The  icon is used to upload OfficeServ application files to the storage media.

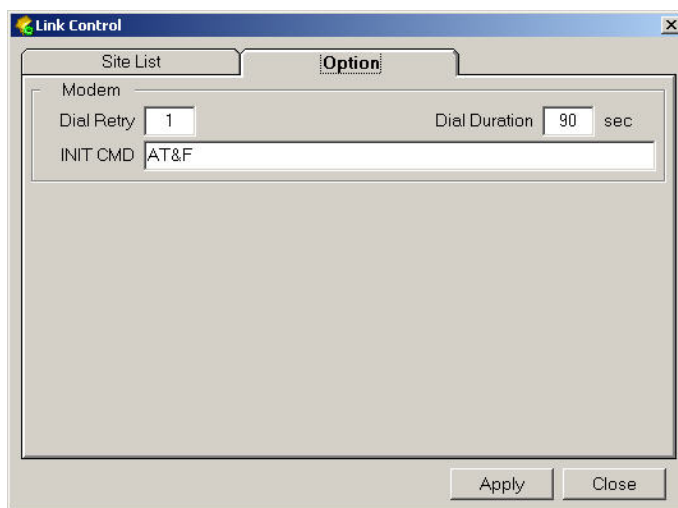
In order to change a particular parameter on a defined site, highlight the site (like in the picture above), modify the parameters on the bottom part of the window, and then click the **[Update]** button.

If the **[Link Type]** for a particular site is set to Modem, enter the COM port number, the baud rate, and the telephone number for the modem connected to the MP10/MCP/MP40 and then click the **[Update]** button to save the change.



Option

The **[Option]** tab may be selected to set additional information regarding the modem connection (between the IT and the key phone system.)



Once a site is defined and displayed in the bottom section of the <Link Control> window, simply click on the  icon to connect to the MP10/MCP/MP40.

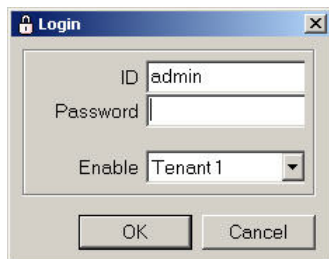
The  icon is used to upload OfficeServ system files to the storage media.

Refer to the following table to configure the modem's options:

Field	Details
Dial Retry	Used to set the number of attempts (dial counts) for the modem connection.
Dial Duration	Used to set the connection time (uptime) for the modem connection.
INIT CMD	Used to set the modem's initialization command.

Connect

Once the OfficeServ site is defined in Link Control, use the **[Connect]** sub-menu to connect the IT to an OfficeServ 7000 Series key phone system. Click on the **[System]** → **[Connect]** sub-menu and the following window will be displayed:



A screenshot of a 'Login' dialog box. It has a title bar with a lock icon and the word 'Login'. Inside, there are three fields: 'ID' with the text 'admin', 'Password' which is empty, and 'Enable' with a dropdown menu showing 'Tenant 1'. At the bottom are 'OK' and 'Cancel' buttons.

Enter the correct 'ID' and 'Password' then click the **[OK]** button.
The IT then downloads the initial data and switches to on-line mode.



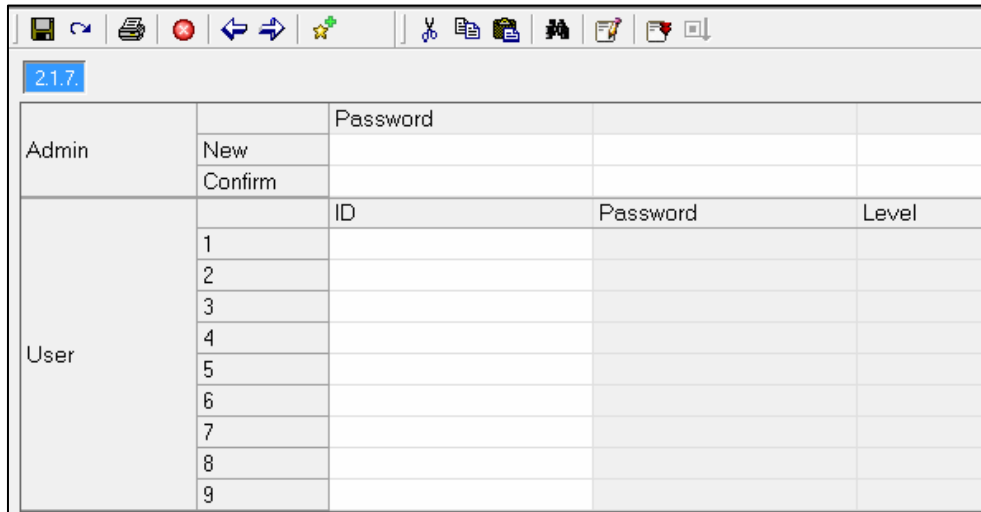
NOTE

Entering the password

After three unsuccessful login attempts, the IT application will automatically close. The default values for the IT **User ID** and **Password** are **admin** and **samsung**.

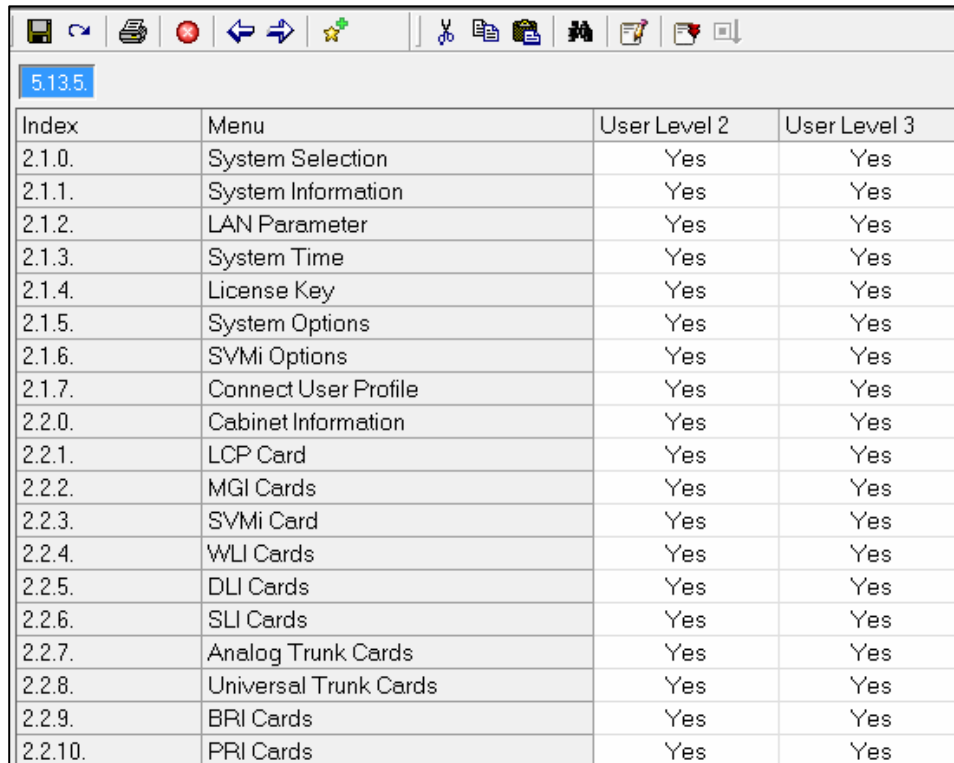
In order to secure the OfficeServ 7000 Series system from unauthorized access, it is highly recommended that the default IT password be changed. This password is not correlated with any password settings used in KMMC programming and must be done using the IT menu 2.1.7. If this password is lost or forgotten, Samsung Technical Support must be contacted for assistance.

In addition to changing the IT password, menu 2.1.7 can be used to create (9) separate user accounts with their own passwords. Each user account can be assigned a permission level (2-3.)



Admin		Password		
	New			
	Confirm			
User		ID	Password	Level
	1			
	2			
	3			
	4			
	5			
	6			
	7			
	8			
	9			

The permission levels are defined in IT menu 5.13.5 which is used to allow or deny specific IT menus.



Index	Menu	User Level 2	User Level 3
2.1.0.	System Selection	Yes	Yes
2.1.1.	System Information	Yes	Yes
2.1.2.	LAN Parameter	Yes	Yes
2.1.3.	System Time	Yes	Yes
2.1.4.	License Key	Yes	Yes
2.1.5.	System Options	Yes	Yes
2.1.6.	SVMi Options	Yes	Yes
2.1.7.	Connect User Profile	Yes	Yes
2.2.0.	Cabinet Information	Yes	Yes
2.2.1.	LCP Card	Yes	Yes
2.2.2.	MGI Cards	Yes	Yes
2.2.3.	SVMi Card	Yes	Yes
2.2.4.	WLI Cards	Yes	Yes
2.2.5.	DLI Cards	Yes	Yes
2.2.6.	SLI Cards	Yes	Yes
2.2.7.	Analog Trunk Cards	Yes	Yes
2.2.8.	Universal Trunk Cards	Yes	Yes
2.2.9.	BRI Cards	Yes	Yes
2.2.10.	PRI Cards	Yes	Yes

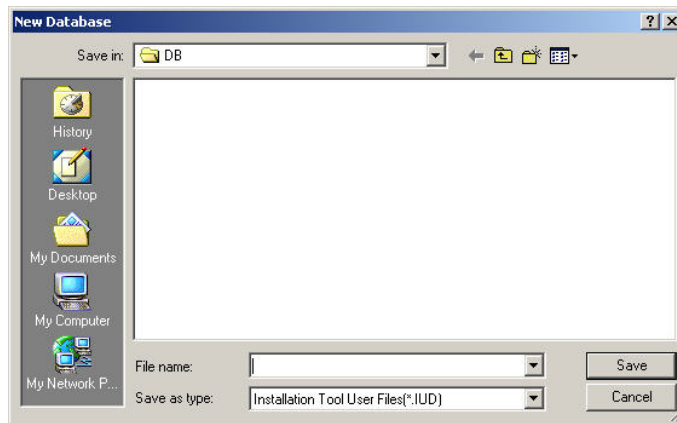
Disconnect

While in on-line mode, click on the **[System] → [Disconnect]** sub-menu to disconnect from the OfficeServ 7000 Series system and switch to off-line mode.

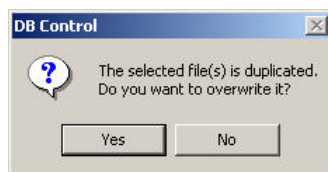
Download DB From System (MP10/MCP/MP40)

This sub-menu is used to download the key phone system database to the user's PC.

1. Click on the **[System] → [Download DB From System]** sub-menu. Once the <New Database> window opens, either create a new file or select an existing one.



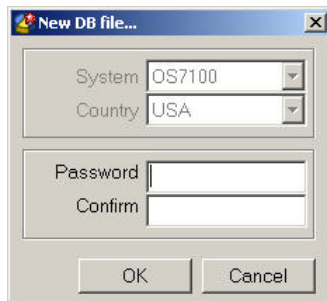
2. When an existing database file is selected, the following window will be displayed:



To overwrite the existing download file, click on the **[Yes]** button. Otherwise, click on the **[No]** button to cancel the download.

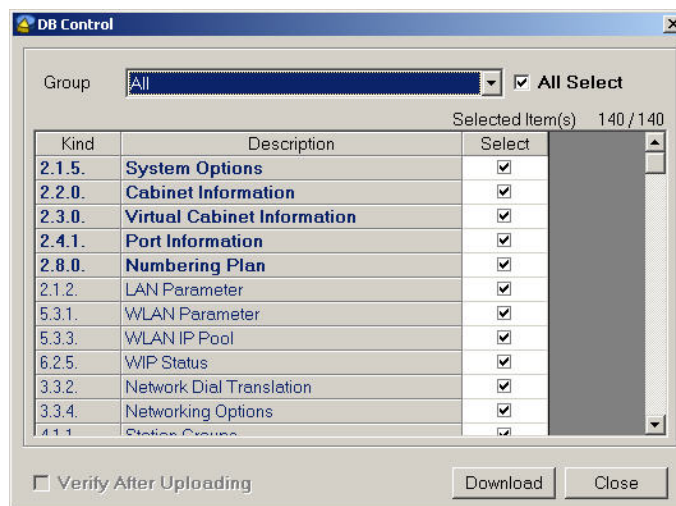
Downloading a newly created file

When creating and downloading a new database file, the following window will be displayed:



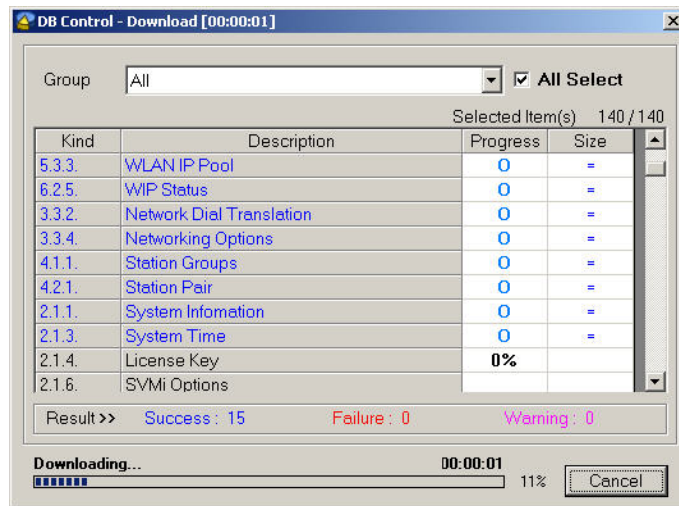
On the <New DB file...> window, enter and confirm the Technician Level 'Password' of the OfficeServ 7000 Series system being downloaded (Default password is 4321.)

3. After the download file is created, the following <DB Control> window will be displayed:

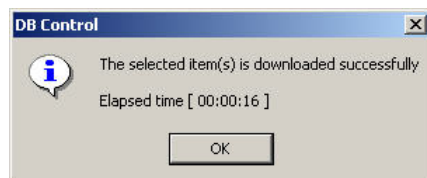


4. Select the desired feature group to be downloaded. To download all the feature groups, click on the [All Select] box. All feature groups are selected to be downloaded by default.

5. After selecting the desired feature blocks, click on the **[Download]** box. The following window will be displayed as the IT application initiates the downloading process. To cancel the download, simply click on the **[Cancel]** button.



6. When the download is finished, the following window will be displayed: Click on the **[OK]** button to close the window.



NOTE

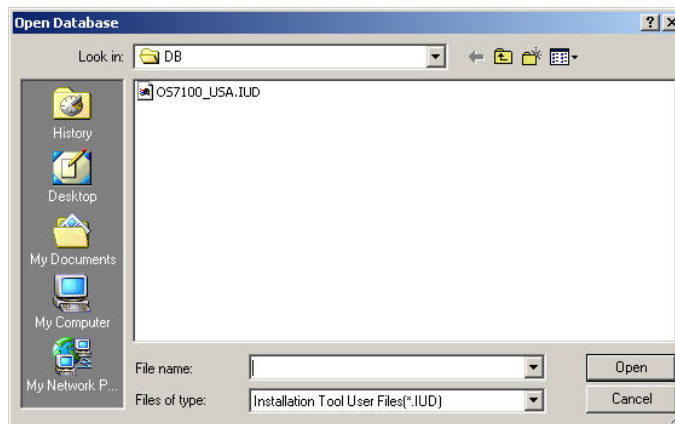
Download Speeds

Database download speeds will vary depending on type of connection and quality of connection. For example, a 3 cabinet OfficeServ 7400 with a good WAN connection with plenty of bandwidth will take approximately 30 seconds to download a database. The same system with a modem connection will take around 10 minutes to download a database.

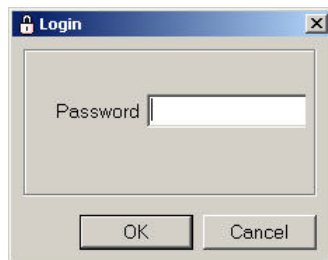
Upload DB To System

While in the on-line mode, this sub-menu may be used to upload an OfficeServ 7000 Series system database from the user's PC to a key phone system.

1. Click on the [System] → [Upload DB To System] sub-menu. The following window will be displayed:

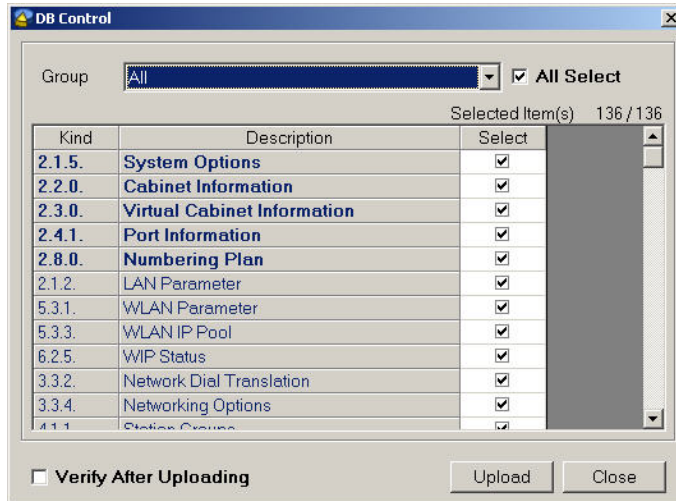


2. Select the appropriate .IUD file and then click the [Open] button to display the following login window.

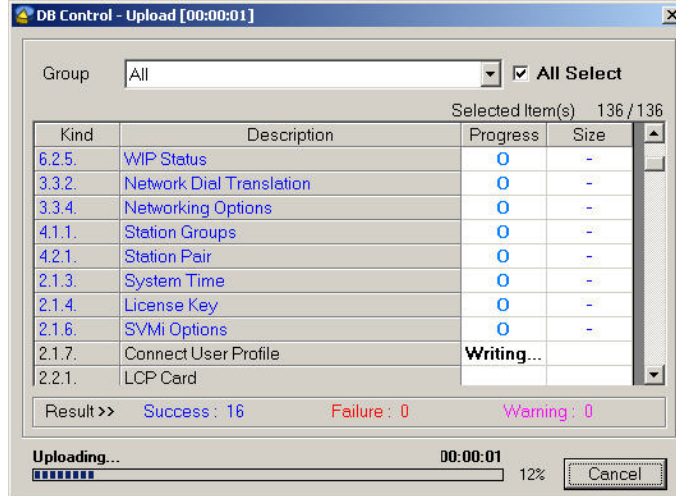


In the <Login> window, enter the database file's 'Password' to open the <DB Control> window (Default password is 4321.)

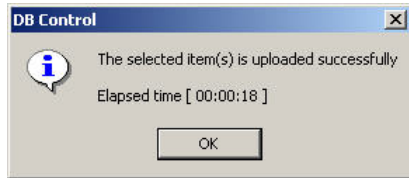
3. In the <DB Control> window, select the desired feature blocks to upload to the OfficeServ 7000 Series key phone system. To upload all feature blocks, click on the **[All Select]** button. By default, all feature block menus are selected for uploading.



4. Once the feature blocks are selected, click on the **[Upload]** button to initiate the uploading process. To cancel the uploading process, click on the **[Cancel]** button.



5. When the uploading process has finished the following window will be displayed:
Click on the **[OK]** to close the window.



NOTE

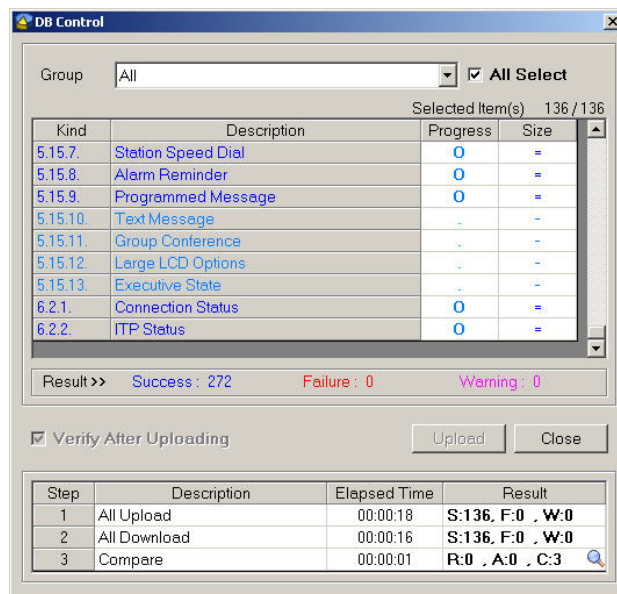
Upload Speeds

Database upload speeds will vary depending on type of connection and quality of connection. For example, a 3 cabinet OfficeServ 7400 with a good WAN connection with plenty of bandwidth will take approximately 30 seconds to upload a database. The same system with a modem connection will take around 10 minutes to upload a database.

Upload DB - Verify After Upload

Within the <DB Control> window, the **[Verify After Uploading]** box may be checked. This will make sure the IT application compares the database being uploaded to the key phone system with the active database.

Once the IT has executed the 'All Upload' → 'All Download' → 'Compare' process the following result window will be displayed:



The Result information found within the <DB Control> window has the following meaning as it pertains to the feature blocks being compared between databases:

F: Fail, **W:** Warning, **R:** Removal, **A:** Addition, **C:** Change.

Step	Description	Elapsed Time	Result
1	All Upload	00:00:29	S:147, F:0, W:0
2	All Download	00:00:34	S:147, F:0, W:0
3	Compare	00:00:02	R:0, A:0, C:3 

Click on the  icon to view the verification log. This will display card removals, card additions, and database changes.



Upload/download failure

If the upload/download fails, an error message will be displayed and the upload/download will be cancelled.

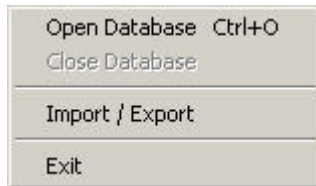


Caution when uploading

- When uploading a database, the card slot configuration of the user's PC database should be identical to that of the active key phone system's card slot configuration.
- It may be necessary to reboot the OfficeServ 7000 Series system after the upload process (a message will be issued.) To protect system data from being accidentally deleted, please ensure that the MP10/MCP/MP40 card's backup switch is set to **[ON]**.

File Menu

The **[File]** menu provides functions such as opening and closing the user database, importing and exporting an Excel file, and exiting the IT application.



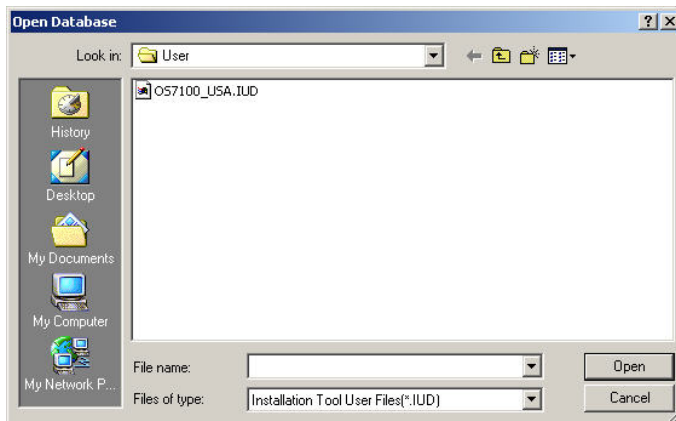
NOTE

Using the [File] Menu

The **[Open Database]** and **[Import/Export]** sub-menus can only be used while in the off-line mode.

Open Database

The **[Open Database]** sub-menu can be used to open an OfficeServ 7000 Series database file. This can only be used while the IT is in the off-line mode. Once the **[File] → [Open Database]** sub-menu is selected the following window will be displayed:



Select a database file (.IUD) then click the **[Open]** button. The following <Login> window will be displayed (Default password is 4321.)



Enter the correct password to open the selected database file.



Entering the password

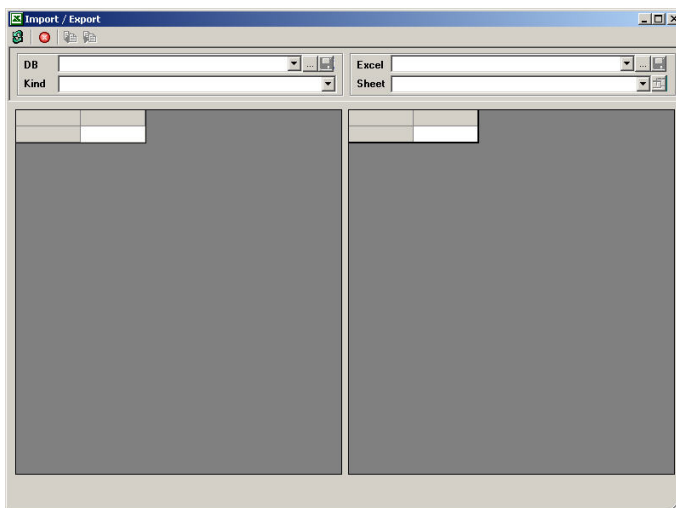
After three unsuccessful login attempts, an error message will be displayed and the IT application will close.

Close Database

This sub-menu is used to close an OfficeServ 7000 Series system database file. This can only be used while in the off-line mode. Click on the **[File] → [Close Database]** sub-menu to close an opened database.

Import/Export

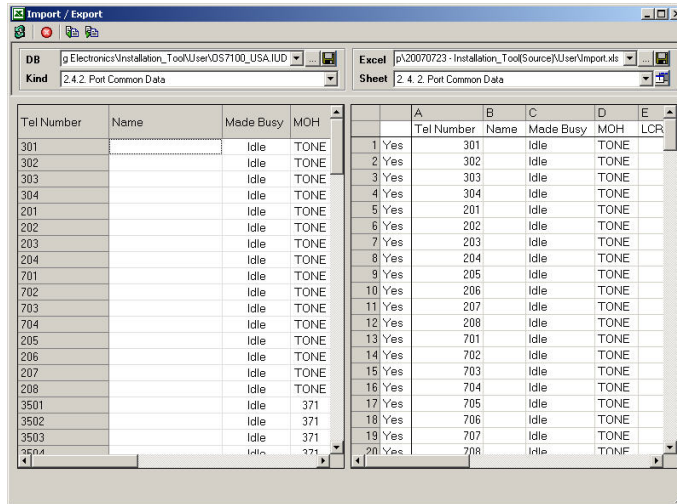
This sub-menu is used to import or export a specific feature block from or to an Excel file (*.xls.) This can only be used while in the off-line mode. Click on the **[File] → [Import/Export]** sub-menu and the following window will be displayed:



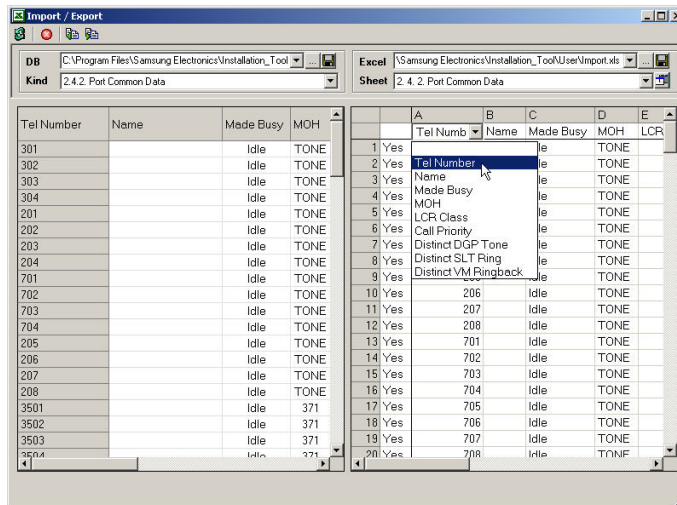
Importing the Excel File (Example)

Below is an import example. The '2.4.2 Port Common Data' is used to illustrate this procedure.

1. Click on [...] to set the appropriate paths for the database file and the Excel file.



2. Select the page and sheet. In the Excel section, select the field name and whether to include it in the document.



3. Click on **[Copy To Left]** to move the document to the file section and then click the **[Save]** button to save the database contents to the file.

Exit

This sub-menu is used to terminate the IT application. Click on the **[File] → [Exit]** sub-menu to terminate the application.



NOTE

Save changes on exit

When there is unsaved data, a 'Do you want to save change(s)?' message will be displayed: Click on the **[Yes]** button to save the changes. Otherwise, click on the **[No]** button to discard the changes.

Option Menu

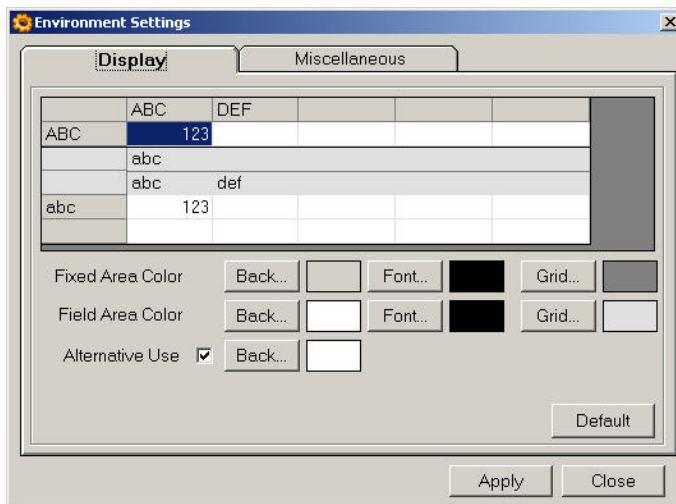
The **[Option]** menu consists of two sub-menus entitled Environment Settings and Language.



Environment Settings

Display

This sub-menu is used to configure the IT applications attributes such as color scheme and other options which will be discussed in this section of the User Guide. Click on the **[Option]** → **[Environment Settings]** sub-menu and the following window will be displayed:

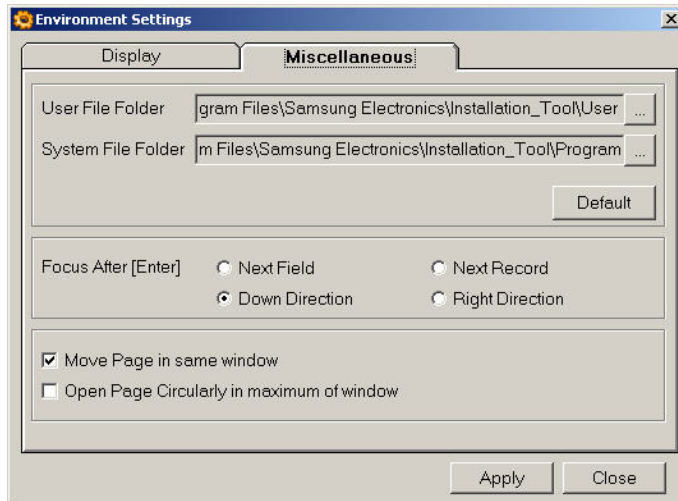


Refer to the following table to configure the IT window.

Field	Details
Fixed Area	Used to set the title field's background/text/line color.
Field Area	Used to set the content field's background/text/line color.
Alternative Use	Used to set the repeated background color for the content field.
[Default] Button	Used to apply default values to the IT's window properties.
[Apply] Button	Used to apply custom values to the window properties.
[Close] Button	Used to close the Environmental Settings window.

Miscellaneous

This menu is used to set additional information regarding the IT application's environment.



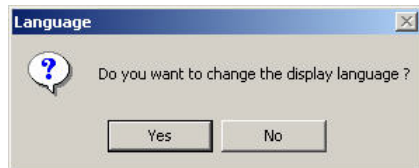
Refer to the following table to configure:

Field	Details
User File Folder	Used to set the initial location for the user database file selection.
System File Folder	Used to set the initial location for the system application file selection.
[Default] Button	Used to apply default values to IT's file location properties.
Focus After [Enter]	Used to set the cursor position after pressing the Enter key within a page.
Move Page ...	Used to select whether to display the target page in the current page when moving to the target page.
Open Page ...	Used to select whether to display the target page in the oldest opened page when the maximum (opened) page count is reached.
[Apply] Button	Used to apply custom values to the option properties.
[Close] Button	Used to close the Environmental Settings window.

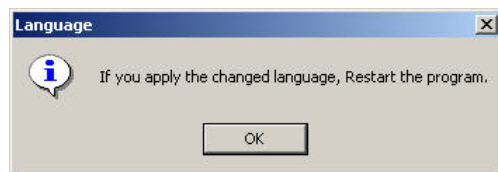
Language

Select the language to be displayed in the IT application using the **[Option] → [Language]** sub-menu. Currently the available languages choices are English, Korean, Russian, German, and Italian.

1. From the **[Option] → [Language]** sub-menu select which language to use.
If a new language is chosen, the following message will be displayed:



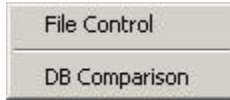
2. To change to the selected language, click the **[Yes]** button.
If the **[Yes]** button is clicked the following window will be displayed:



3. Click on the **[OK]** button to complete the language choice and reboot the IT application.

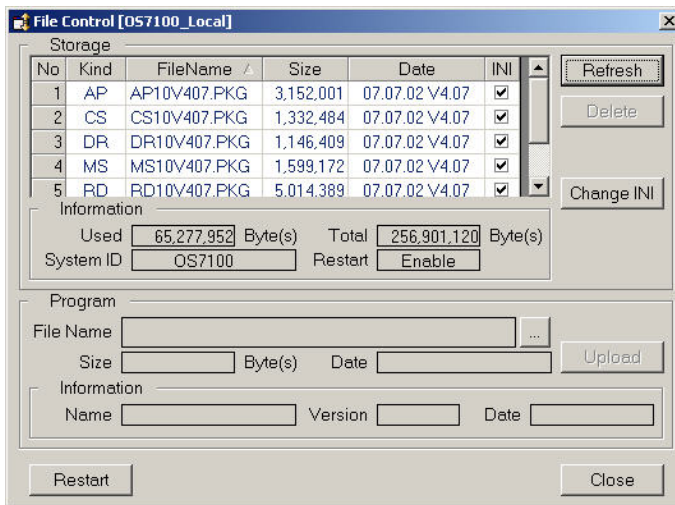
Util

The [Util] menu consists of the File Control and Database Comparison sub-menus.



File Control

To upload or delete a file (OfficeServ 7000 Operating System, Database, T1/PRI version, Startup, etc..) on the key phone system's Smart Media, MMC, or SD card, click on the [Util] → [File Control] sub-menu. The following window will be displayed:



This window shows the contents of the media card.

Refer to the following table to use the File Control:

Field	Details
[Refresh] Button	Used to refresh the system file index.
[Delete] Button	Used to delete the selected file.
[Change INI] Button	Used to select which initialization file to use during the system startup. The current file is displayed as blue within the index. You must check the box in the INIT field to modify the selection.
[Restart] Button	Used to restart the system with the new application.
[Close] Button	Used to close the File Control window.
[Upload] Button	Used to move the selected files from the IS Tool to the OfficeServ 7000 Series key phone system's storage Media.

**Using the [Change INI] button**

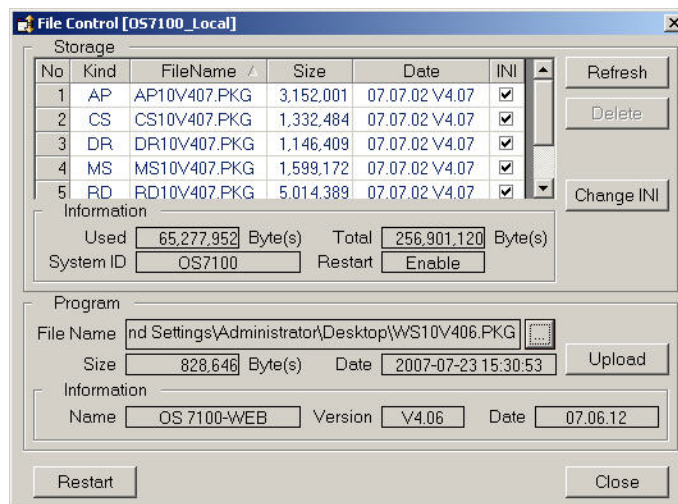
The **[Change INI]** button can only be used in OS7100.

Uploading the Application File (Example)

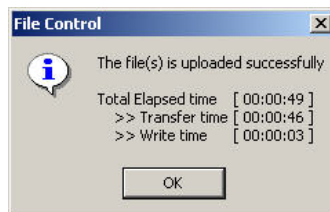
1. Click on [...] and select the location (path) and name of the file to upload to the key phone system's Smart Media, MMC, or SD card.



Only 1 file may be uploaded at a given time



2. Click on the **[Upload]** button to upload the file.
3. Upon successful completion of the file upload, the following message will be displayed:

**Uploading the file**

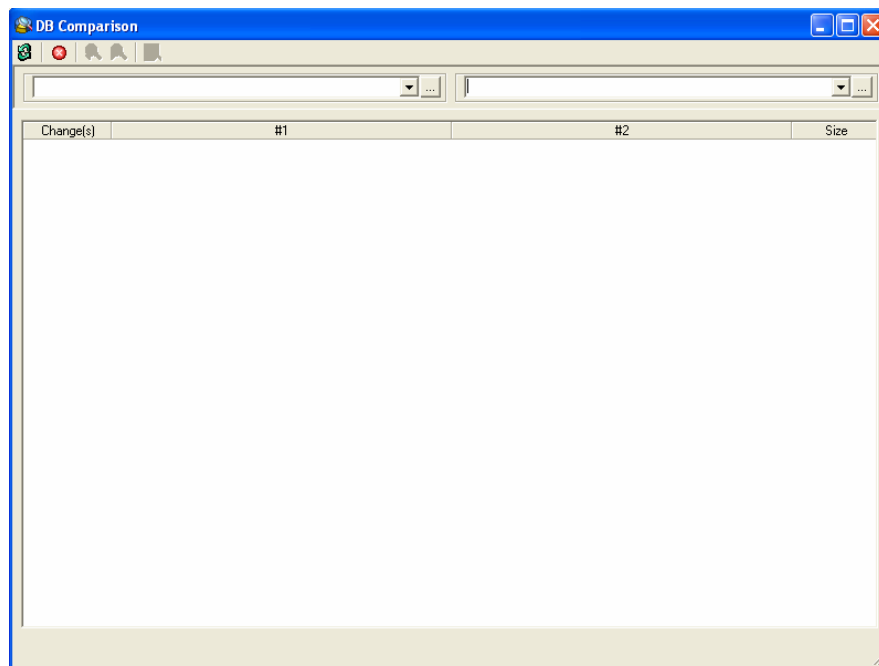
The 'file upload' feature simply puts software on the media card. In order to upload a file to the various OfficeServ 7000 system cards, 'MMC 818' must be used.

DB Compare

With the DB Compare feature, downloaded OfficeServ 7000 Series databases may be compared to each other. This functionality makes it simple for system administrators to verify and pinpoint modifications in the system programming from one database to another.

While in the off-line mode, this sub-menu is used to compare 2 OfficeServ 7000 Series system databases from the user's PC.

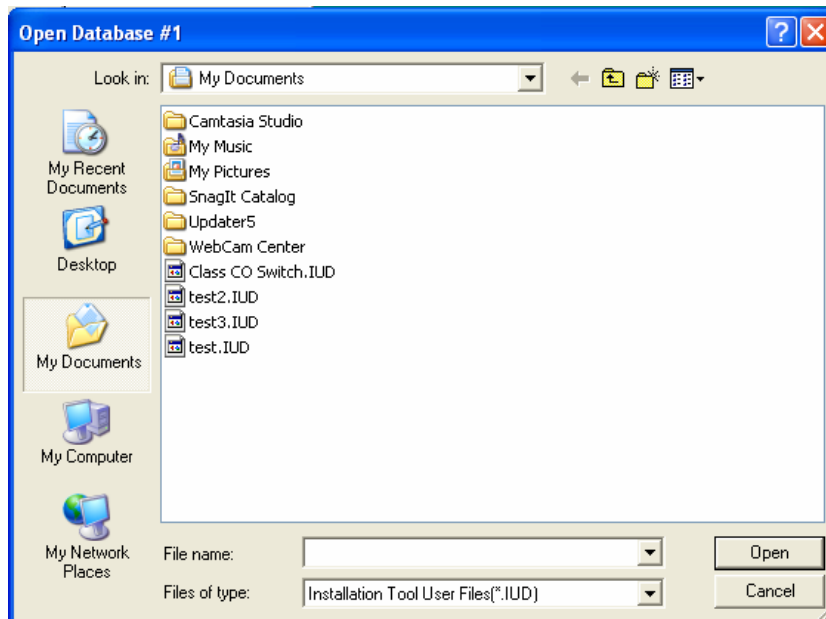
1. Click on the [Util] → [DB Comparison] sub-menu. The following window will be displayed:



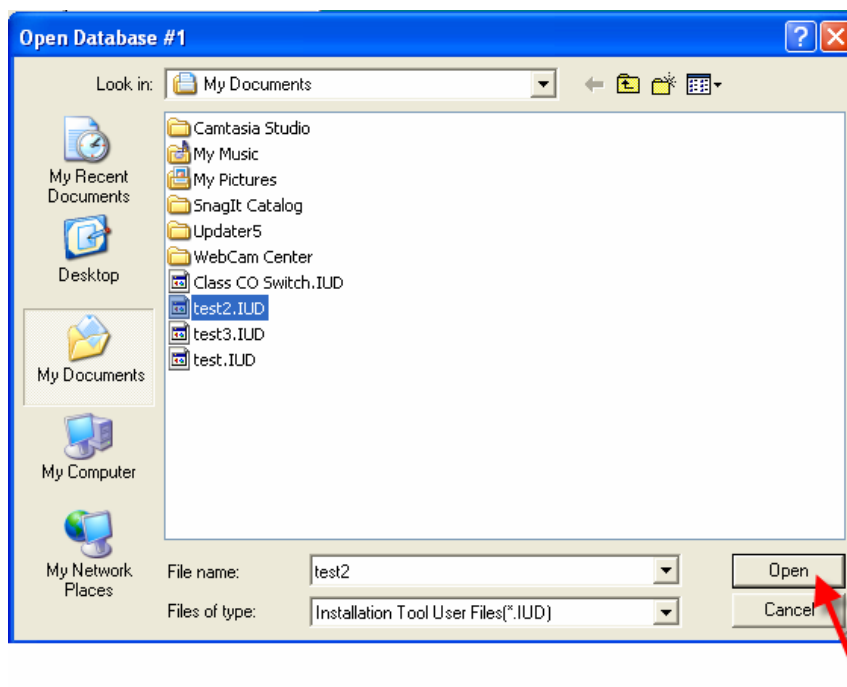
2. Click on the [...] icons to select the appropriate OfficeServ databases.



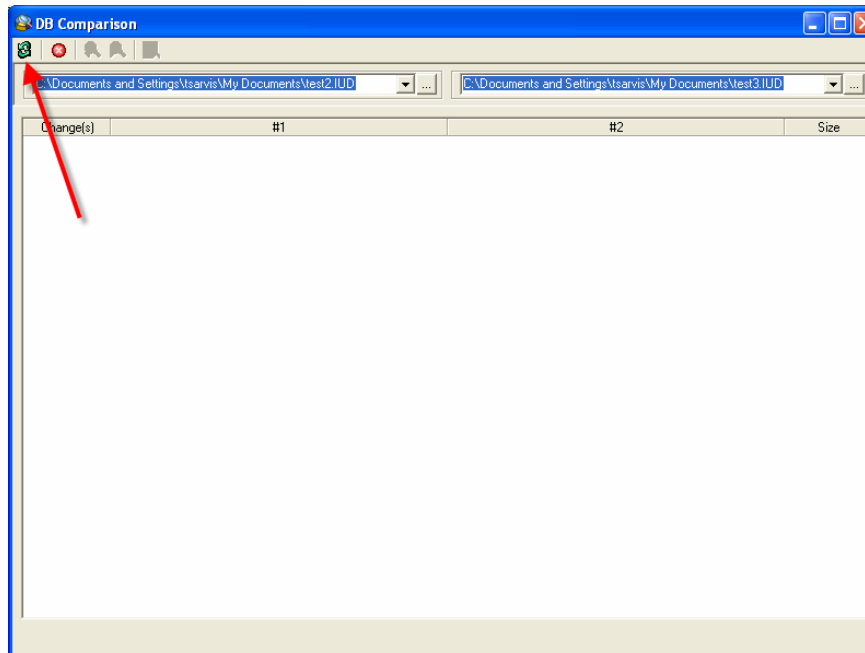
3. Once a  icon is selected the following window will open.



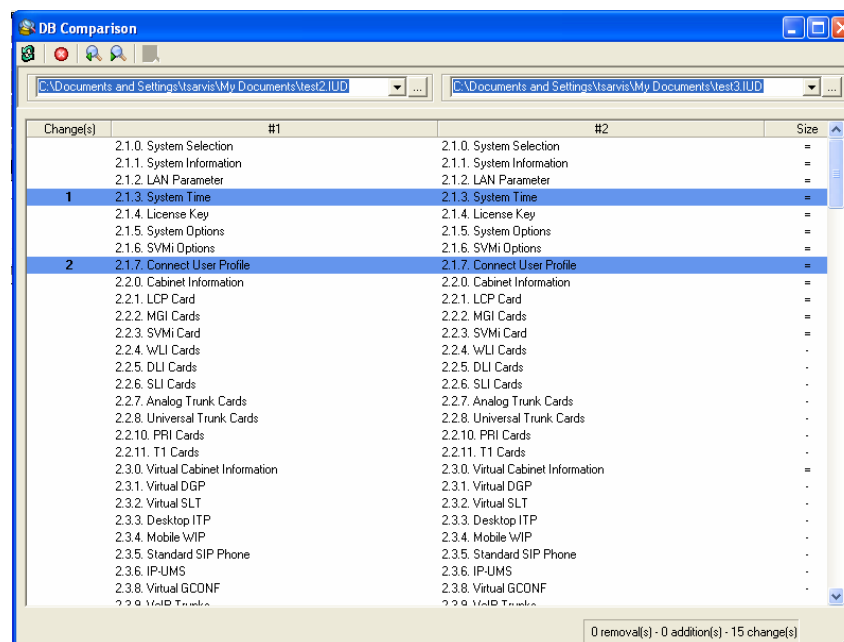
4. Select a database and then click the **[Open]** button



5. Once the 2 databases have been selected click on the  icon to compare the databases



6. Once the data base compare process has been completed the following window will be displayed:



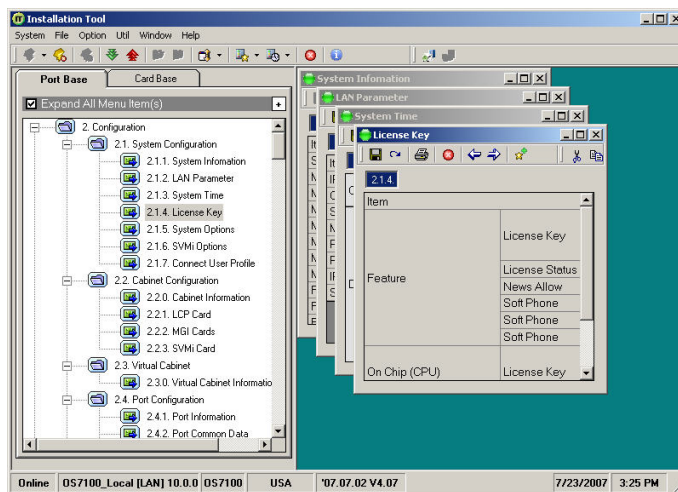
Window Menu

The alignment method may be changed using the [**Window**] menu.



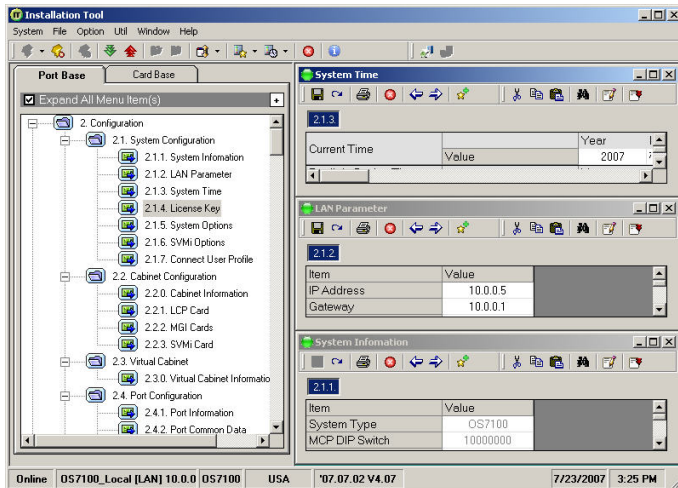
Cascade

Click on the [**Window**] → [**Cascade**] sub-menu to arrange the windows in a cascading style as shown below:



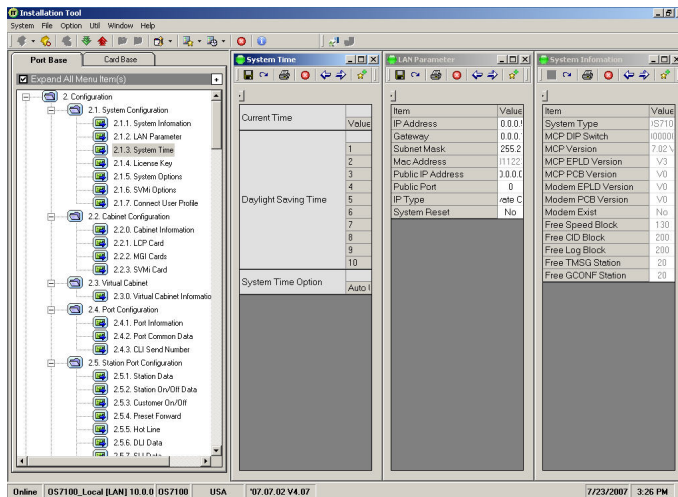
Tile Horizontally

Click on the [Window] → [Tile Horizontally] sub-menu to tile the windows horizontally as shown below:



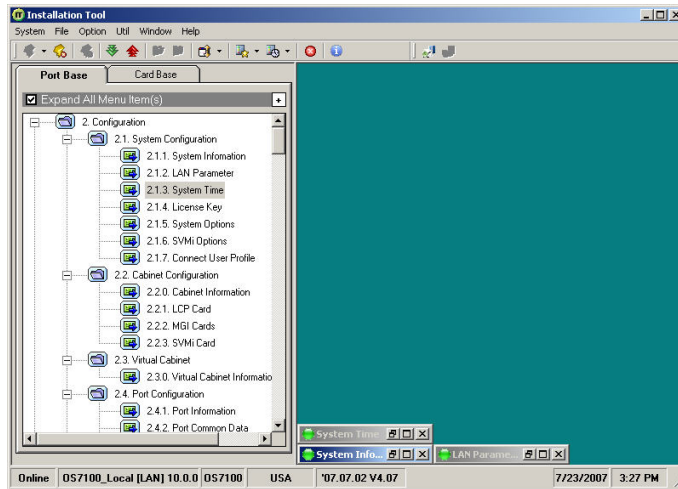
Tile Vertically

Click on the [Window] → [Tile Vertically] sub-menu to tile the windows vertically as shown below:



Arrange Icons

Click on the **[Window] → [Arrange Icons]** sub-menu to minimize all windows and arrange them as shown below:



Close All

Click on the **[Window] → [Close All]** sub-menu to close all opened windows.

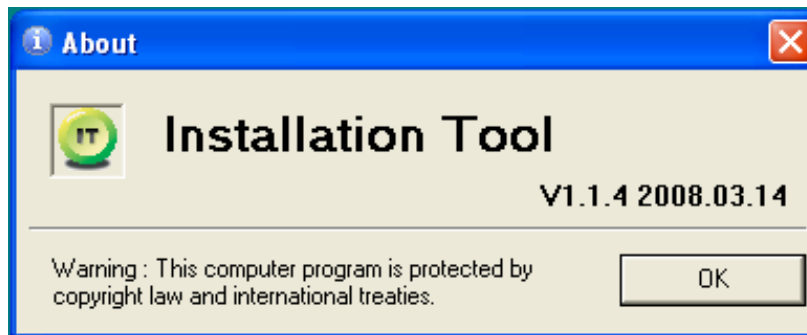
Help Menu

The **[Help]** menu is used to display the information of the Installation Tool.



Information

This sub-menu displays additional information such as the IT application's version, copyright, policy/permission and date. Click on the **[Help] → [About...]** sub-menu to display the following window:

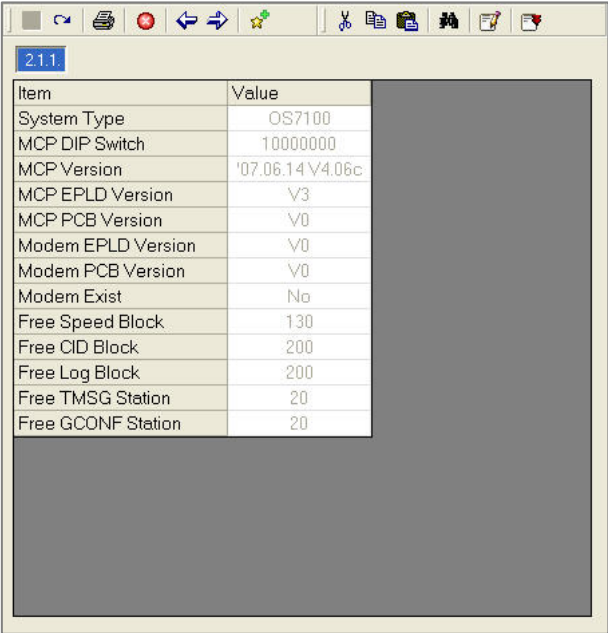


CHAPTER 4 Application Window and Programming Example

In this chapter, an introduction to the Application Windows, which are used to set up the OfficeServ 7000 Series system from within the IT, is provided. In addition, examples of some of the feature blocks are also provided.

Feature Block Menu Windows

System modifications are accomplished by changing parameters within each feature block menu window. Below is an example taken from feature block menu 2.1.1:



The screenshot shows a software window titled '2.1.1.' with a standard toolbar at the top. Inside the window is a table with two columns: 'Item' and 'Value'. The table lists various system parameters and their current values.

Item	Value
System Type	OS7100
MCP DIP Switch	10000000
MCP Version	'07.06.14 V4.06c
MCP EPLD Version	V3
MCP PCB Version	V0
Modem EPLD Version	V0
Modem PCB Version	V0
Modem Exist	No
Free Speed Block	130
Free CID Block	200
Free Log Block	200
Free TMSG Station	20
Free GCONF Station	20

Feature Block Menu Window Icons

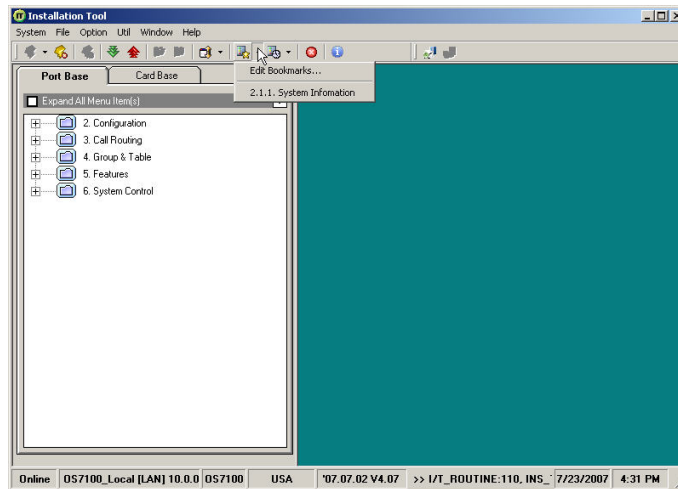
Below are details of the Feature Block Menu window icons:

Icon	Details
	Save: Used to save to a file in off-line mode, or to upload a file in on-line mode.
	Reload: Used to refresh a page.
	Print: Used to display a preview of the page to print. (Click on [Print] from the preview window to print.)
	Close: Used to terminate the feature block window.
	Previous: Used to move to the previous page.
	Next: Used to move to the next page.
	Add to Bookmarks: Used to add the current page to the bookmark.
	Cut: Used to cut the selected text from a field.
	Copy: Used to copy the selected text from a field.
	Paste: Used to paste the previously cut/copied text to another field. You cannot paste if the data on the clipboard and the target field are of different data type.
	Search: Used to search within a field.
	Repeat: Used to enter a series of consecutive numbers in the selected field. You can use ',' to define the intervals.
	Focus after [Enter]: Used to display and change the current value for the cursor position after pressing the Enter key. Users can select between right and down.

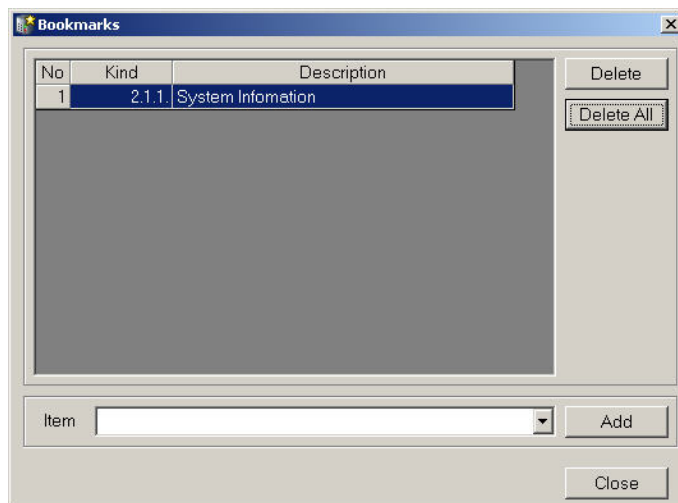
Menu Bookmark

The Bookmark feature is for storing IT menu choices that are used extensively. This way they are quickly loaded by the phone system administrator. In order to add a Menu Bookmark, do the following:

Click on a feature block to open.

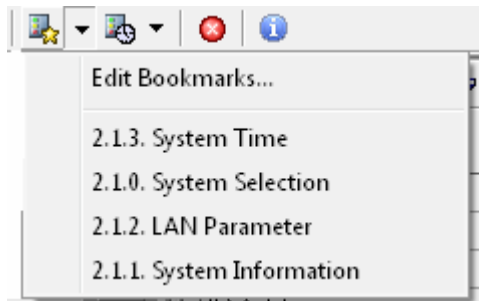


Once a feature block is open, click on the Bookmark  pull-down menu and select **[Edit Bookmarks...]**. Once this is done the following window will open. Use the Item pull down menu and select the feature block to be added.



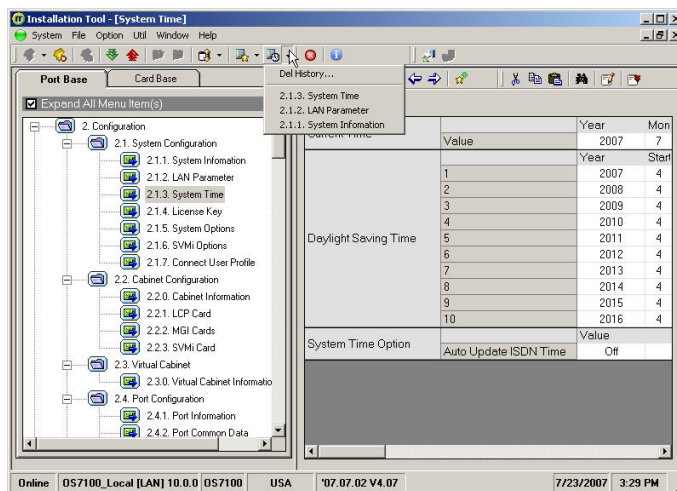
Once a feature block is selected, click the **[Add]** button.

Once the Menu Bookmarks are defined, select the Bookmark  pull down menu and select the defined IT menu to open.

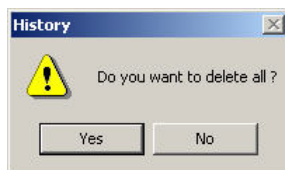


History

To display the history of the recently opened IT menu blocks select the pull down menu next to the  Icon.



Click on the  and **[Del History...]** then the **[Yes]** button to delete the history.



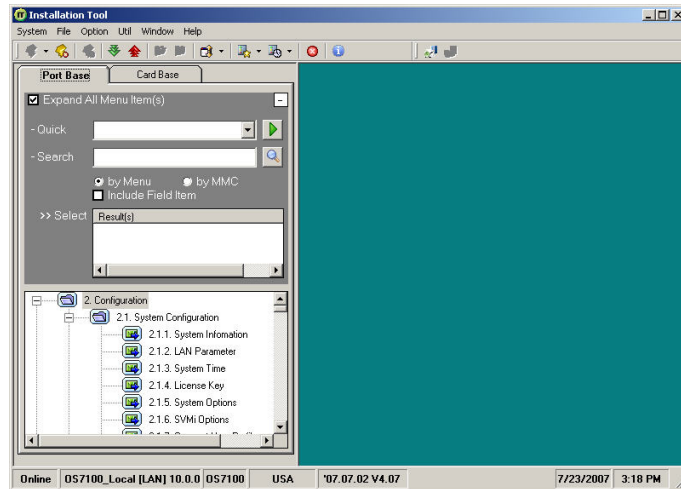
Click on the **[OK]** button to complete the deletion process.

Feature Block Programming (example)

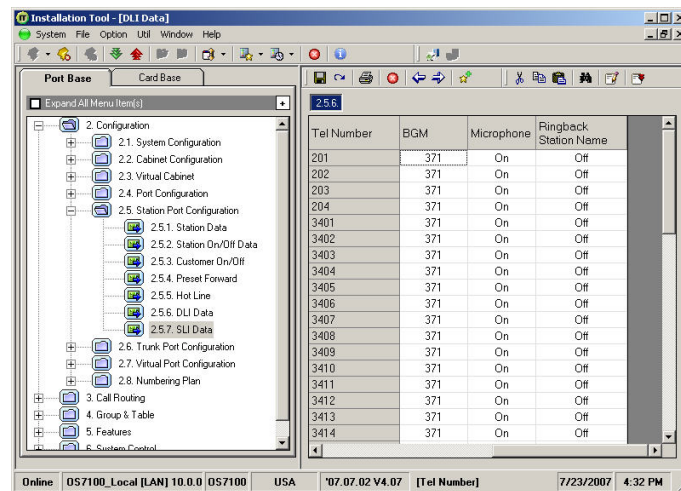


This section illustrates a programming example of a feature block. The 2.4.2 feature block (Port Common Data) is used to illustrate this procedure.

1. Click on the **[System] → [Connect]** sub-menu. The following window will be displayed:



2. From the main IT window, click on the **[2 Configuration] → [2.4 Port Configuration] → [2.4.2 Port Common Data]** feature block to display the following window:



3. Set each parameter appropriately and then click on the  icon to save changes.

4. Click on the  to close the feature block.

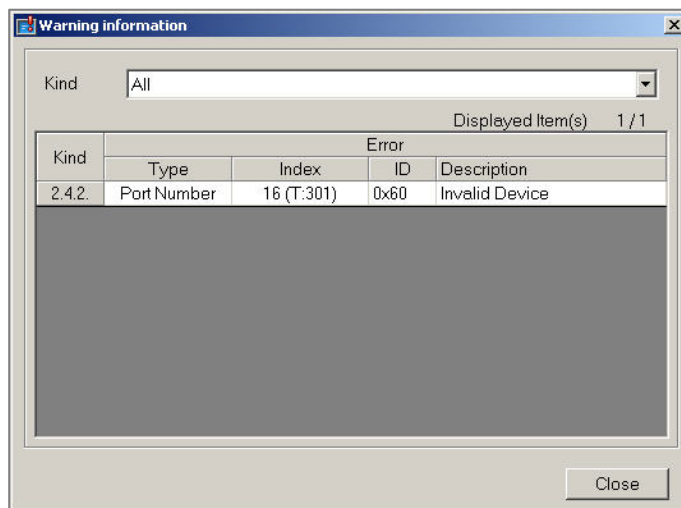
Displaying the OfficeServ 7000 Series System Properties

When a feature block is open the IT displays the corresponding OfficeServ 7000 system field properties on the very bottom of the IT window. System type, IP address, connection method, system software version, time, and date are displayed as shown below:

Online	OS7100_Local [LAN] 10.0.0	OS7100	USA	'07.07.02 V4.07	[Read Only]	7/23/2007	4:32 PM
--------	---------------------------	--------	-----	-----------------	-------------	-----------	---------

Error on Saving

The IT application will display all available values regardless of the system type or local settings. When the user selects an incorrect value, the following <Warning Information> window will be displayed:



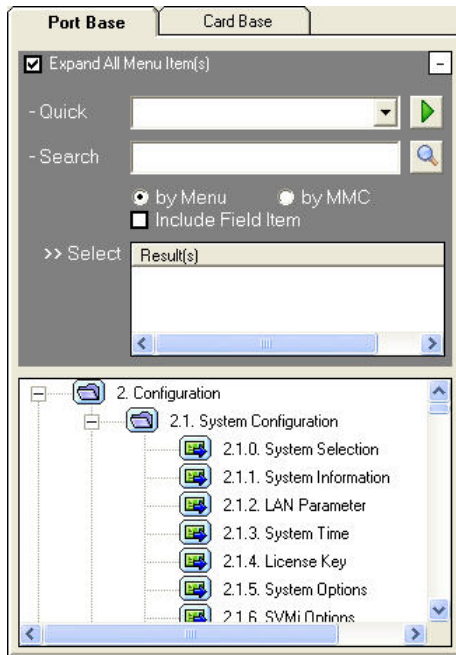
NOTE

Warning Information window

The <Warning Information> window is displayed when an error occurs during the save process while in the on-line mode.

Port Base

The **[Port Base]** tab opens a window consisting of the search utility and the IT feature block menus. It is used to navigate to IT menus and to perform searches based on MMC number or IT menu number.

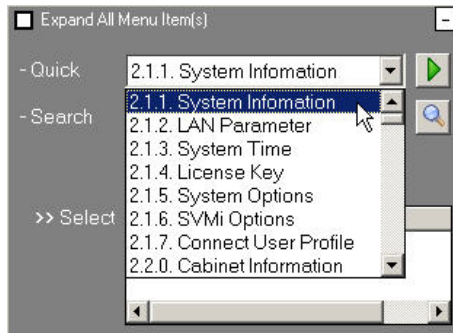


Refer to the following table to configure:

Field	Details
Expand All Menu Item(s)	Used to display all the IT feature block menus.
Quick	This pull down menu is used to display all the IT feature blocks. You can quickly jump to feature block after selecting from this field.
Search	Used to search from the menu/MMC content.
Include field item	Used to select whether to include the title within the page (in addition to the menu title) in the search.
Select	Used to display the search results. Click on a feature block to open the corresponding parameters.

Quick

Contains a list of all the feature blocks. Using the keyboard, type '2' → '.' → '2' → '.' → '0' to select the corresponding '2.2.0 Cabinet Information' page. Press the  button to open the feature block.



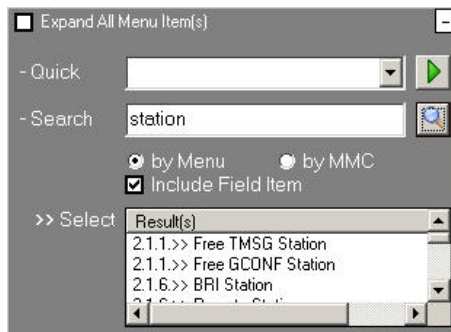
NOTE

Selecting the page

When selecting with the mouse or the cursor key, you may click on the  button on the right to open the corresponding page.

Search (by Menu)

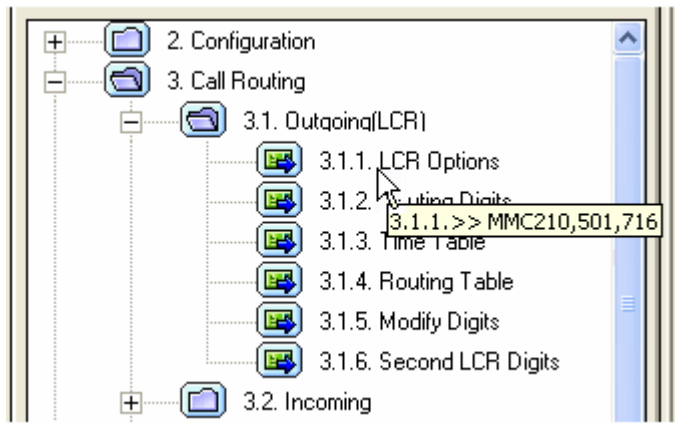
Select **[by Menu]**. In the **[Search]** field, enter the keyword and click on the  button. The corresponding menu names are displayed in the **[Result(s)]** box.



When the **[Include Field Item]** is selected, the search results include the menu names and the titles within the page.

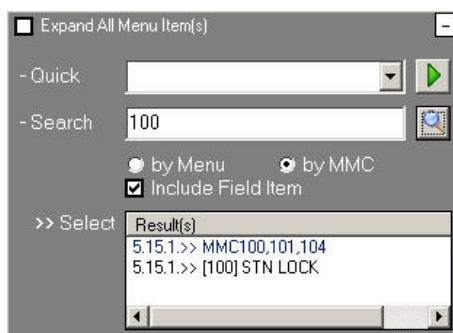
Tooltips

Tooltips are useful icons that appear when a user hovers over expanded menu items. The information displayed associates the menu item with one or more MMCs used when programming a specific step.



Search (by MMC)

Select the **[by MMC]** radio button. In the **[Search]** field, enter the desired MMC number and click on the  button. The corresponding menu (with the MMC number) is displayed in the **[Result(s)]** box.



When the **[Include Field Item]** is selected, the search results display the specific field within the MMC number as well as the menu.

Card Base

The [Card Base] tab displays the configuration of the current system's configuration.

The screenshot shows the 'Card Base' tab in a configuration window. It has two sub-tabs: 'Physical' and 'Virtual'. Under 'Physical', there are three expandable sections for 'Cabinet 1', 'Cabinet 2', and 'Cabinet 3'. Each cabinet section contains a table of components.

Cabinet 1		
LP40	TEPRI2	TEPRI2
MP40	TEPRI2	TEPRI2
TEPRI2	TEPRI2	TEPRI2
TEPRI2	MG164	GPLIMIT

Cabinet 2		
LP40	16MWSLI	16MWSLI
		16DLI2
SVM120E(12)	TEPRI	TEPRI
GWIMT	GPLIMIT	GPLIMIT

Cabinet 3		
LP40		

Clicking the ☒ icon to the left of a cabinet number will display the cabinet information as shown below:

2.2.0

Cabinet Number1

Item	Value			
LP Version	'07.11.12 V1.17			
Fan Status	On			
Option Board 1				
Option Board 2	CRM			
Option Board 3				
Cabinet EPLD Version	V1			
Cabinet PCB Version	V1			
LP EPLD Version	V2			
LP PCB Version	V1			
External Ringer 1	None			
External Ringer 2	None			
Slot Number	1	2	3	4
Previous Card	TEPRI2	TEPRI2	MP40	TEPRI2
Previous Service 1	TEPRI-TP	TEPRI-TP	MP40	TEPRI-TP
Previous Service 2	TEPRI-T1	TEPRI-T1		TEPRI-T1
Previous Service 3				
Current Card	TEPRI2	TEPRI2	MP40	TEPRI2
Current Service 1	TEPRI-TP	TEPRI-TP	MP40	TEPRI-TP
Current Service 2	TEPRI-T1	TEPRI-T1		TEPRI-T1
Current Service 3				
Card Status	Enable	Enable	Enable	Enable
Card Version	'07.10.25 V4.21	'07.10.25 V4.21	NO VERSION DATA	'07.10.25 V4.21
DIP Switch	11011000	11011000	10000111	11011000
Option Board				
EPLD Version	V2	V2		V2
PCB Version	V1	V1		V1

The phone system administrator may also click on a card to get the card's information as shown below:

Slot	Channel No	Port Number	Device	Tenant No	Tel Number
7	1	928	PRI TRUNK	1	7385
	2	929	PRI TRUNK	1	7386
	3	930	PRI TRUNK	1	7387
	4	931	PRI TRUNK	1	7388
	5	932	PRI TRUNK	1	7389
	6	933	PRI TRUNK	1	7390
	7	934	PRI TRUNK	1	7391
	8	935	PRI TRUNK	1	7392
	9	936	PRI TRUNK	1	7393
	10	937	PRI TRUNK	1	7394
	11	938	PRI TRUNK	1	7395
	12	939	PRI TRUNK	1	7396
	13	940	PRI TRUNK	1	7397
	14	941	PRI TRUNK	1	7398
	15	942	PRI TRUNK	1	7399
	16	943	PRI TRUNK	1	7400
	17	944	PRI TRUNK	1	7401
	18	945	PRI TRUNK	1	7402
	19	946	PRI TRUNK	1	7403
	20	947	PRI TRUNK	1	7404
	21	948	PRI TRUNK	1	7405
	22	949	PRI TRUNK	1	7406
	23	950	PRI TRUNK	1	7407

Unlike the **[Port Base]** tab, the **[Card Base]** tab only displays the ports corresponding to the given card. The corresponding menu is also displayed on the upper section of the window.



NOTE

Using **[Card Base]**

[Card Base] is enabled in on-line mode.

CHAPTER 5 MMC and Installation Tool Cross Reference

The following table displays a cross reference for MMC codes and Installation Tool codes. Locate the appropriate MMC or Installation tool code needed to be referenced.

MMC	Program Name	Installation Tool Menu	7100	7200	7400
100	STATION LOCK	5.15.1	✓	✓	✓
101	CHANGE USER PASSCODE	5.15.1	✓	✓	✓
102	CALL FORWARD	5.15.6	✓	✓	✓
103	SET ANSWER MODE	5.15.2	✓	✓	✓
104	STATION NAME	2.4.2, 5.15.1	✓	✓	✓
105	STATION SPEED DIAL	5.15.7	✓	✓	✓
106	STATION SPEED DIAL NAME	5.15.7	✓	✓	✓
108	STATION STATUS	2.4.1, 2.8.0, 6.2.1	✓	✓	✓
109	DATE/TIME DISPLAY	5.15.2	✓	✓	✓
110	STATION ON/OFF	5.15.2, 5.15.3, 5.15.4	✓	✓	✓
111	KEYSET RING TONE	5.15.5	✓	✓	✓
112	ALARM CLOCK	5.15.8	✓	✓	✓
114	STATION VOLUME	5.15.5	✓	✓	✓
115	SET PROGRAMMED MESSAGE	5.15.9	✓	✓	✓
116	ALARM REMINDER	5.15.8	✓	✓	✓
117	TEXT MESSAGE	5.15.10	✓	✓	✓
118	CONFERENCE GROUP	5.15.11	✓	✓	✓
119	CALLER ID/ ANI DISPLAY	5.15.3	✓	✓	✓
120	LARGE LCD OPTION	5.15.12	✓	✓	✓
121	STATION LANGUAGE ASSIGNMENT	5.15.3	✓	✓	✓
122	SPOT INFO SPD	5.15.2	✓	✓	✓
125	EXECUTIVE PRESENT STATE	5.15.13	✓	✓	✓
199	SHOW LICENSE STATUS	2.1.4	✓	✓	✓
201	CHANGE CUSTOMER PASSCODE	5.13.1	✓	✓	✓
202	CHANGE FEATURE PASSCODE	5.13.1	✓	✓	✓
203	ASSIGN UA DEVICE	5.13.1	✓	✓	✓
204	COMMON BELL CONTROL	2.2.1	✓	✓	✓
205	ASSIGN LOUD BELL	2.2.1	✓	✓	✓
206	BARGE-IN TYPE	5.13.1	✓	✓	✓
207	VMAA PORT	2.5.7		✓	✓
208	ASSIGN RING TYPE	2.5.7	✓	✓	✓
209	ASSIGN ADD-ON MODULE	4.2.3	✓	✓	✓

MMC	Program Name	Installation Tool Menu	7100	7200	7400
210	CUSTOMER ON/OFF PER TENANT	3.1.1, 3.3.4, 5.2.1, 5.2.2, 5.14.1-8	✓	✓	✓
211	DOOR RING ASSIGNMENT	3.2.7	✓	✓	✓
214	DISA ALARM RINGING STATION	5.13.1	✓	✓	✓
217	STATION PAIR	4.2.1	✓	✓	✓
218	RELAY TYPE	2.2.1	✓		
219	TRAFFIC REPORT PRINTOUT	5.13.1	✓	✓	✓
223	ISDN SERVICE TYPE	2.5.7	✓	✓	✓
224	AUDIO PROMPT	5.13.1	✓	✓	✓
225	IP-UMS/IVR	2.7.4		✓	✓
300	CUSTOMER ON/OFF PER STATION	2.4.2, 2.5.2-7	✓	✓	✓
301	ASSIGN STATION COS	4.7.1	✓	✓	✓
302	PICKUP GROUPS	2.5.1	✓	✓	✓
303	ASSIGN EXECUTIVE/SECRETARY	4.2.2	✓	✓	✓
304	ASSIGN EXTENSION/TRUNK USE	5.1.2, 5.1.3	✓	✓	✓
305	ASSIGN FORCED CODE	4.5.1	✓	✓	✓
306	HOT LINE	2.5.5	✓	✓	✓
308	ASSIGN BACKGROUND MUSIC SOURCE	2.5.6	✓	✓	✓
309	ASSIGN STATION MUSIC ON HOLD	2.4.2	✓	✓	✓
310	LCR CLASS OF SERVICE	2.4.2	✓	✓	✓
312	ALLOW CID / ANI	2.5.1	✓	✓	✓
314	ASSIGN STATIONS/STATION USE	2.5.1, 5.1.4	✓	✓	✓
315	CUSTOMER SET RELOCATION	6.3.6	✓	✓	✓
316	PRESET FORWARD NO ANSWER	2.5.4	✓	✓	✓
317	TIME/COST	5.15.4		✓	✓
320	BRANCH GROUP	2.5.1	✓	✓	✓
321	SEND CLI NUMBER	2.4.3	✓	✓	✓
324	SLI GAIN	5.4.5		✓	✓
326	RBT MSG	2.5.1	✓	✓	✓
327	MMS SERVICE	5.15.14			✓
400	CUSTOMER ON/OFF PER TRUNK	2.6.2, 2.6.5, 3.2.2	✓	✓	✓
401	C.O./PBX LINE	2.6.2	✓	✓	✓
402	TRUNK DIAL TYPE	2.6.1	✓	✓	✓
403	TRUNK TOLL CLASS	4.8.5	✓	✓	✓
404	TRUNK NAME	2.4.2	✓	✓	✓
405	TRUNK TELEPHONE NUMBER	2.6.1	✓	✓	✓
406	TRUNK RING ASSIGNMENT	3.2.1	✓	✓	✓
408	ASSIGN TRUNK MOH SOURCE	2.4.2, 3.2.2	✓	✓	✓
409	TRUNK STATUS READ	2.4.1, 2.8.0, 6.2.1	✓	✓	✓
410	ASSIGN DISA TRUNK	3.2.2	✓	✓	✓
411	T1 SIGNAL	2.6.9		✓	✓

MMC	Program Name	Installation Tool Menu	7100	7200	7400
412	TRK SIGNAL	2.6.6		✓	✓
414	ASSING CALLER ID / ANI TRUNKS	2.6.5	✓	✓	✓
416	E&M/DID RING	2.6.4		✓	✓
415	REPORT TRUNK ABANDON DATA	2.6.2	✓	✓	✓
417	TRK TMC GAIN	5.4.4	✓	✓	✓
418	TRUNK GAIN CONTROL	5.4.3	✓	✓	✓
419	DISTINCTIVE RINGING	2.4.2	✓	✓	✓
420	ANI / DNIS OPTIONS	5.13.1	✓	✓	✓
421	TRUNK COS	4.7.1	✓	✓	✓
422	COST RATE	5.12.1	✓	✓	✓
423	SET H-TRK	2.6.6		✓	✓
430	PRI CONTROL	2.6.8	✓	✓	✓
432	CONNECTION STATUS	6.2.1	✓	✓	✓
438	16 TRUNK GAIN	5.4.6	✓	✓	✓
500	SYSTEM-WIDE COUNTERS	5.14.3, 5.14.4, 5.14.6	✓	✓	✓
501	SYSTEM TIMERS	3.1.1, 3.3.4, 5.2.1, 5.2.2, 5.5.0, 5.14.1-8	✓	✓	✓
502	STATION-WIDE TIMERS	2.5.4, 2.5.5, 2.5.7	✓	✓	✓
503	TRUNK-WIDE TIMER	2.6.1, 2.6.3, 2.6.5, 3.2.2	✓	✓	✓
504	PULSE MAKE/BREAK RATIO	5.5.0	✓	✓	✓
505	ASSIGN DATE AND TIME	2.1.3	✓	✓	✓
506	tone CADENCE	5.7.1	✓	✓	✓
507	ASSIGN RING PLAN TIME	4.3.1	✓	✓	✓
510	SLI RING CADENCE	5.7.3	✓	✓	✓
511	MESSAGE WAITING LAMP CADENCE	5.5.0	✓	✓	✓
512	HOLIDAY ASSIGNMENT	4.3.2	✓	✓	✓
515	ASSIGN DAYLIGHT SAVINGS DATE	2.1.3	✓	✓	✓
600	ASSIGN OPERATOR GROUP	5.13.1	✓	✓	✓
601	ASSING STATION GROUP	4.1.1	✓	✓	✓
602	STATION GROUP NAME	4.1.1	✓	✓	✓
603	ASSIGN TRUNK GROUP	4.1.2	✓	✓	✓
604	ASSIGN INTERNAL PAGE ZONES	4.1.3	✓	✓	✓
605	ASSIGN EXTERNAL PAGE ZONE	4.1.3	✓	✓	✓
606	ASSIGN SPEED BLOCK	2.1.1, 2.1.5, 2.5.1	✓	✓	✓
607	UCD OPTIONS	4.6.1	✓	✓	✓
608	ASSIGN REVIEW BLOCK	2.5.6	✓	✓	✓
609	CALL LOG BLOCK	2.5.6	✓	✓	✓
611	ALLOW TEXT MESSAGING	2.5.6	✓	✓	✓
612	GROUP CONFERENCE ALLOW	2.5.6	✓	✓	✓
614	SET A STATION / C.O. LINE CALL GROUP	5.1.1	✓	✓	✓
615	MGI GROUP	4.1.4	✓	✓	✓

MMC	Program Name	Installation Tool Menu	7100	7200	7400
616	MGI USER	2.2.2	✓	✓	✓
701	ASSIGN COS CONTENTS	4.7.2	✓	✓	✓
702	TOLL DENY TABLE	4.8.1	✓	✓	✓
703	TOLL ALLOWANCE TABLE	4.8.2	✓	✓	✓
704	ASSIGN WILD CHARACTER	4.8.3	✓	✓	✓
705	ASSIGN SYSTEM SPPED DIAL	4.4.0	✓	✓	✓
707	AUTHORIZATION CODE	4.5.3	✓	✓	✓
708	ACCOUNT CODE	4.5.2	✓	✓	✓
709	TOLL PASS CODE/SPECIAL CODE TABLE	4.8.4	✓	✓	✓
710	LCR DIGIT TABLE	3.1.2	✓	✓	✓
711	LCR TIME TABLE	3.1.3	✓	✓	✓
712	LCR ROUTE TABLE	3.1.4	✓	✓	✓
713	LCR MODIFY DIGIT TABLE	3.1.5	✓	✓	✓
714	DID NUMBER AND NAME TRANSLATION	3.2.3	✓	✓	✓
715	PROGRAMMED STATION MESSAGE	5.13.3	✓	✓	✓
717	MY AREA CODE	2.1.5	✓	✓	✓
718	UCD AGENT ID	4.6.2	✓	✓	✓
719	IDLE DISPLAY	5.13.4	✓	✓	✓
720	COPY KEY PROGRAMMING	6.3.7	✓	✓	✓
721	SAVE STATION KEY PROGRAMMING	6.3.8	✓	✓	✓
722	STATION KEY PROGRAMMING	4.9.2	✓	✓	✓
723	SYSTEM KEY PROGRAMMING	4.9.1	✓	✓	✓
724	DIAL NUMBERING PLAN	2.4.1, 2.8.0	✓	✓	✓
725	SMDR/HM OPTS	5.6.3		✓	✓
726	VMAA OPTIONS	5.9.3		✓	✓
727	SYSTEM VERSION DISPLAY	2.1.1, 2.2.0	✓	✓	✓
728	CID / ANI TRANSLATION TABLE	3.2.6	✓	✓	✓
729	RATE CALCULATION	5.6.3, 5.12.2	✓	✓	✓
730	COSTING DIAL PLAN	5.12.3	✓	✓	✓
740	VM CARD RESTART	2.1.6	✓	✓	✓
741	USER MAILBOX	5.9.1	✓	✓	✓
743	AUTO RECORD	5.9.2	✓	✓	✓
744	VM DAY / NIGHT	2.1.6	✓	✓	✓
745	WARNING DESTINATION	2.1.6	✓	✓	✓
746	VM HALT	2.1.6	✓	✓	✓
747	VM ALARM	2.1.6	✓	✓	✓
748	ASSIGN VM MOH	2.2.3	✓	✓	✓
749	VM IN/OUT	2.2.3	✓	✓	✓
759	CLI RINGING	3.2.5	✓	✓	✓
763	IN DIGIT	3.1.6	✓	✓	✓
764	DISA PASS	3.2.8		✓	✓

MMC	Program Name	Installation Tool Menu	7100	7200	7400
801	CHANGE TECHNICIAN PASSCODE	2.1.5	✓	✓	✓
802	CUSTOMER ACCESS MMC NUMBER	5.13.2	✓	✓	✓
804	SYSTEM I/O PARAMETER	5.6.1	✓		✓
805	LEVEL & GAIN	5.4.1	✓	✓	✓
806	CARD PRE-INSTALL	2.2.0, 6.3.1	✓	✓	✓
807	ADJUST DIGITAL PHONE TONE QUALITY	5.4.2	✓	✓	✓
808	T1 PARAMETER	2.6.9		✓	✓
810	HALT PROCESSING	6.3.3	✓	✓	✓
811	RESET SYSTEM	6.3.1	✓	✓	✓
812	SET COUNTRY	2.1.5	✓	✓	✓
813	HOTEL OPERATION	2.1.5		✓	✓
815	CUSTOMER DATABASE COPY	2.1.5	✓	✓	✓
816	CONFERENCE GAIN	5.4.1	✓	✓	✓
820	ASSIGN SYSTEM LINK ID	3.3.1	✓	✓	✓
821	Q-SIG TRUNK	2.6.8	✓	✓	✓
822	VIRTUAL STATION TYPE	2.4.1, 2.8.0, 6.2.1	✓	✓	✓
823	NETWORK COS	4.7.3	✓	✓	✓
824	NETWORK DIAL PLAN	3.3.2	✓	✓	✓
825	NETWORK OPTIONS	3.3.4	✓	✓	✓
826	CLOCK SOURCE	5.5.0	✓	✓	✓
827	CRM DSP MODE	2.2.1			✓
829	LAN PRINTER PARAMETER	5.6.2	✓	✓	✓
830	ETHERNET PARAMETERS	2.1.2, 5.6.1	✓	✓	✓
831	MGI PARAMETERS	2.2.2	✓	✓	✓
832	VOIP OUTBOUND DIGITS	5.2.3, 5.2.4	✓	✓	✓
833	VOIP IP ADDRESS	5.2.5	✓	✓	✓
834	H.232 OPTION	5.2.1	✓	✓	✓
835	MGI DSP OPTION	5.2.9	✓	✓	✓
836	H.323 GK OPTION	5.2.1, 5.2.6	✓	✓	✓
837	SIP OPTIONS	5.2.2	✓	✓	✓
838	PRIVATE IP ADDRESS	5.2.8	✓	✓	✓
839	SIP USER	5.2.7	✓	✓	✓
840	IP SET INFO	2.7.1, 5.2.11, 6.2.2	✓	✓	✓
841	SYSTEM IP OPTION	2.1.4, 5.2.10, 5.4.1, 5.6.1	✓	✓	✓
842	SIP STN INFO	2.7.2, 6.2.3		✓	✓
845	WLAN PARAMETERS	5.3.1	✓	✓	✓
846	WIP INFO	2.7.3, 6.2.5	✓	✓	✓
848	WLAN IP/MAC	5.3.3	✓	✓	✓
849	WLAN CONFIG	5.3.1, 6.3.11 WIPCLEAR	✓	✓	✓
851	ALARM MONITORING	2.1.5, 6.1.1, 6.3.9	✓	✓	✓
852	SYSTEM ALARM ASSIGNMENTS	5.8.1, 6.1.1	✓	✓	✓

MMC	Program Name	Installation Tool Menu	7100	7200	7400
853	MAINTENANCE BUSY	2.4.2, 5.8.2	✓	✓	✓
854	DIAGNOSTIC TIME	5.8.3	✓	✓	✓
855	SYSTEM HARDWARE OPTIONS	2.1.1, 2.2.0	✓	✓	✓
856	TECH PROGRAMMING LOGS	6.1.2	✓	✓	✓
857	VIRTUAL CABINETS	2.3.0, 6.3.2	✓	✓	✓
859	HARDWARE VERSION	2.2.0, 2.2.1	✓	✓	✓
861	SYSTEM OPTION	2.1.3, 2.1.5, 3.3.4	✓	✓	✓
863	ACCESS NUMBER	3.3.3	✓	✓	✓
865	FAN POWER CONTROL	2.2.0	✓	✓	✓
890	PORT CLEAR	6.3.5	✓	✓	✓
901	SYSTEM CODING	2.1.5	✓	✓	✓
902	DIAGNOSTIC ITEMS	5.8.3	✓	✓	✓
990	MP MEMORY DUMP	6.3.4	✓	✓	✓