

Announcing the New Network eManager®

Introduction

The new Network eManager application is designed to reduce the time needed to manage multiple CIX equipment sites. Situations when an administrator needs to configure multiple CIX systems as a group include:

- Multiple CIX systems in a Strata NET configuration.
- Setting up several CIX systems, at different sites, through the dealership LAN at the same time.
- Several sites, at different geographical locations, each with its own CIX, all managed centrally over a WAN.

The Network eManager application is changing the way the user can manage multiple CIX equipment sites. While eManager can manage one CIX system during one administration session, Network eManager can manage a group of CIX systems in a single session.

Advantages of Network eManager

To manage multiple CIX sites, the eManager user has to switch between CIX system sites by navigating back to a connection page. This closes the currently open pages, disconnects from the CIX system, and cleans all data collected from the eManager application. Once back on the connection page, the user selects the next single CIX and begins managing that system.

With Network eManager, the user selects an Equipment Group from a tree view. An Equipment Group can include any number of CIX systems and associated Strategy Enterprise Servers (SES). Once an Equipment Group is selected, the user can connect to all members in the selected group. After a successful connection, Network eManager navigates to a menu with all of the member CIX systems of the connected Equipment Group available as destinations. The user can manage all member CIX systems of the selected Equipment Group without navigating back to the selection page. Compared to eManager, the new features in Network eManager provide three ways for managing multiple CIX systems more efficiently:

- Instant selection of a group member CIX system added to existing eManager pages. These pages target one CIX system at a time, but the instant selection control allows switching systems without closing the current page and navigating back to the connection page.
- New functions added to existing eManager pages allow the user to apply changes or to extend operations to all group member CIX systems at once.
- New pages and functions, designed to provide tools to make managing Strata NET sites easier and faster, are added. These functions operate across the member CIX systems in an Equipment Group.

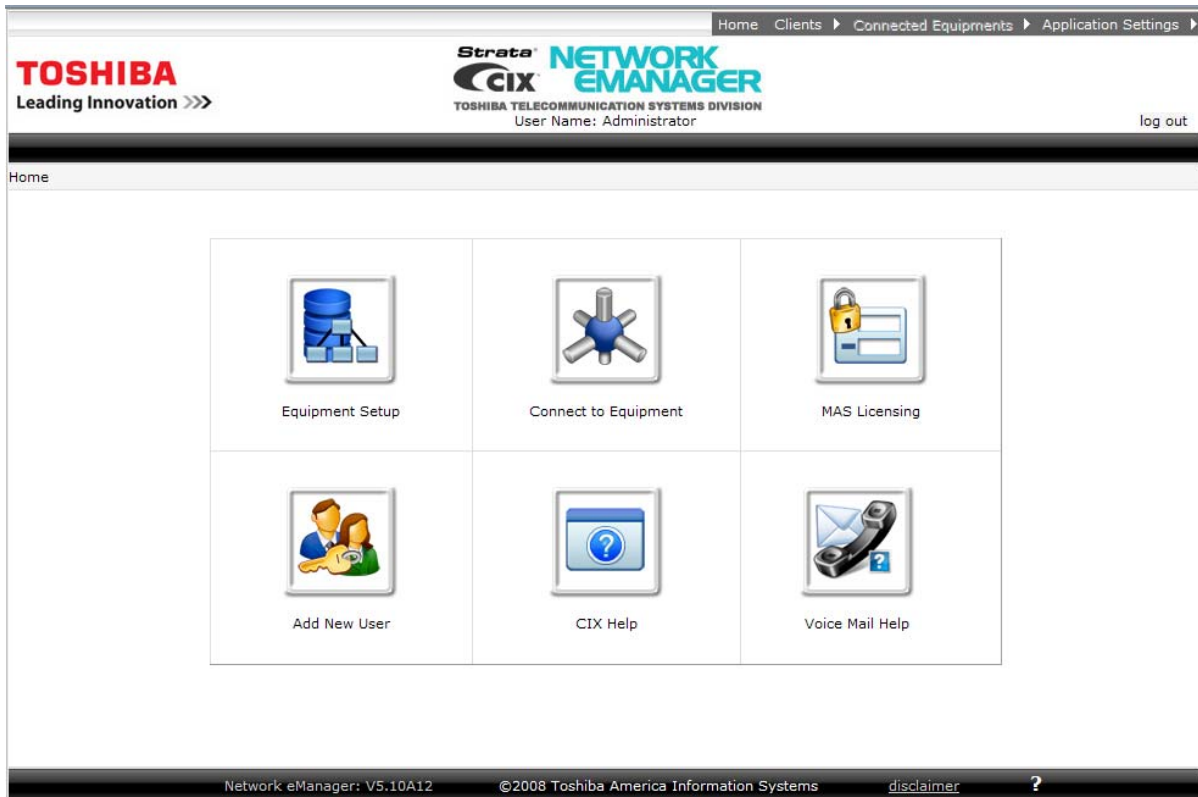


Figure 1 Network eManager screen

What's New in Network eManager

Network eManager Main Menu

When a user logs into Network eManager the main menu appears. The main menu has four options.

- Equipment Setup — This new location is where the CIX system sites are built. The Equipment Setup will allow the technician to add new equipment or add equipment to an existing site, update the equipment and delete the equipment.
- Connect to Equipment — This new option allows the user to select one, or multiple CIX systems.
- MAS Licensing — This new MAS Licensing utility is similar to the previous eManager utility.
- Add New User — This is where individual eManager user IDs can be built with one of four permission levels.

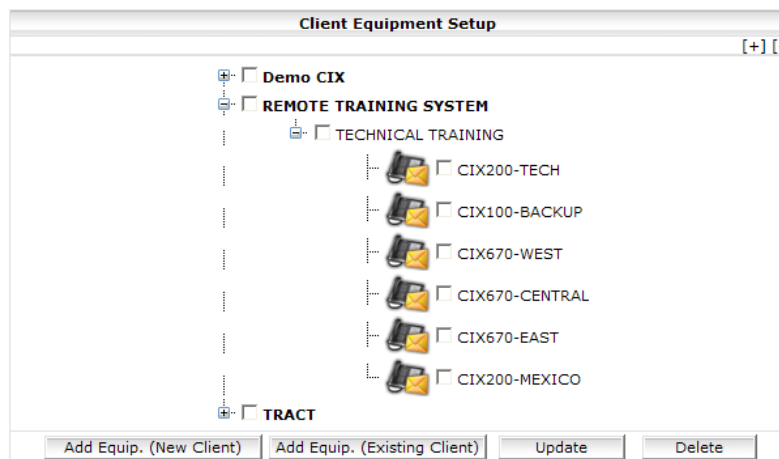
Equipment Setup

The Client Equipment Setup is used to build new equipment groups, add equipment to existing groups, update equipment, and delete equipment. The Equipment is setup in a three tier format;

- Company
- Site
- Equipment

In the example below, Toshiba Training is a company with one site, Remote Training System. At that site are seven systems. The buttons at the bottom of the screen are:

- **Add Equipment (New Client)** – Add a new Company, a site and the first system (Equipment) at that site.
- **Add Equip. (Existing Client)** – Add a site to a company or a system to a site.
- **Update** – Change a company name, site name, system name or, any information about the system.
- **Delete** – Delete the checked item. If a system is checked only that system is deleted. If a site is checked all of the equipment assigned to that site is deleted. If a company is checked all of the sites and equipment is deleted.



Add Equipment Window

The Add Equipment window is used to add a new Company Name, a new Site Name or, new Equipment to a site. When adding a company all of the data, including a site and one system must be entered. When a

site or system the screen, shown below file have the company name and/or the site name fields filled, based on what was selected when the Add Equip (existing client) button was clicked.

Add Equipment	
Company Name:	<input type="text"/>
Site Name:	<input type="text"/>
Equipment Name:	<input type="text"/>
IP Address:	<input type="text"/>
Community Name:	<input type="text"/>
Confirm Community Name:	<input type="text"/>
Voice Mail IP Address(optional):	<input type="text"/>
Dialup Connection Phone Number(optional):	<input type="text"/>
<input style="border: none;" type="button" value=" <<< Back "/> <input style="border: none;" type="button" value=" Add Equip. (New Client) "/>	

Connecting To Multiple CIX Systems

One of the most powerful features of the Network eManager is the ability to connect to multiple systems at one time. The eManager user can connect to multiple CIX systems in multiple nodes in multiple locations simultaneously. This feature requires that an IP connection is possible to all the equipment that the user wants to connect to.

In this example by simply clicking on the Toshiba Training main tree, it places a check mark to all the branch equipment underneath.

Connect to Client Equipment	
[+] [-]	
+ Demo CIX	
+ <input checked="" type="checkbox"/> REMOTE TRAINING SYSTEM	
+ <input checked="" type="checkbox"/> TECHNICAL TRAINING	
+ <input checked="" type="checkbox"/> CIX200-TECH	
+ <input checked="" type="checkbox"/> CIX100-BACKUP	
+ <input checked="" type="checkbox"/> CIX670-WEST	
+ <input checked="" type="checkbox"/> CIX670-CENTRAL	
+ <input checked="" type="checkbox"/> CIX670-EAST	
+ <input checked="" type="checkbox"/> CIX200-MEXICO	
+ TRACT	
Please choose connect mode: <input type="radio"/> StrataNET mode <input checked="" type="radio"/> Non-StrataNET mode	
Connect using Dial-Up: <input type="checkbox"/> (one equipment at a time)	
<input style="border: none;" type="button" value=" Connect "/>	

Connection Mode

There are two ways to connect to Network eManager. The default is Non-Strata Net mode. The Strata Net mode allows the technician a feature to automatically build Network DNS to multiple nodes simultaneously.

Add New Stations

The Add New Stations utility allows the technician to add a station DN to multiple systems in multiple nodes in a Strata Net system by simply clicking on the Node Selection Panel.

MAS Licensing

The MAS licensing screen is used to; Upload, Delete, View, Issue Licenses, Activate Licenses, and View Current Licenses.

License Management

Every MAS is preloaded with an eManager server. For eManager server the MAS in the same PC is local, and other MAS systems are remote. To issue and activate MAS licenses, you need to be logged in to the eManager server in the local MAS.

Local MAC Address: 0002B3E98E12
Local Serial Number: 001B7TCE12

Uploaded License Container Files in eManager Server			
Date/Time	Name	Serial Number	Local Status

Upload
Delete
View
Issue Licenses
Activate Licenses

View Current Licenses

Add New User

The Account Setup utility creates new Network eManager users, each with one of four levels of permissions.

Add New User

Level: Level-4 View Levels Default Permission

User Name:

Password:

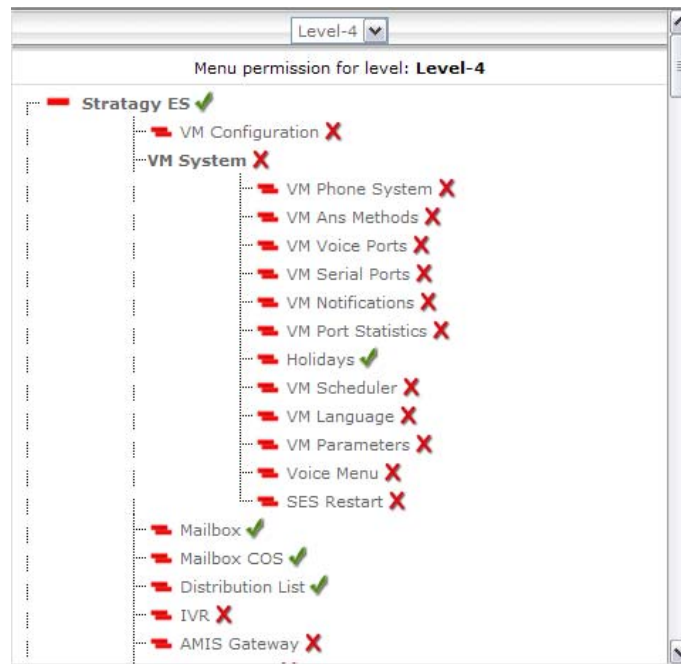
Confirm Password:

Directory Folder Name:

Allow this user to access Equipment Setup page. Yes No

Create New User

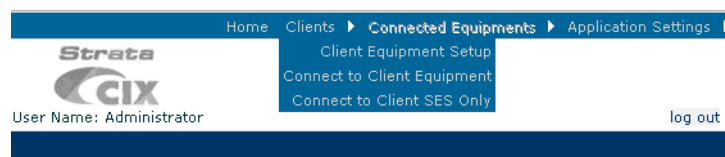
Clicking on the View Levels Default Permission will show the different access permissions of each level.



The Network eManager Toolbar Setup Menu

In addition to the icons on the main menu page, there is a set of menus on the top right hand corner of the Network eManager screen. These menus, similar to the icons on the body of the page, include a menu item, Connect to Client SES Only.

Click on Connect to Client SES Only menu, to connect to the SES in the selected system. Only the Voice Mail menu will be available, all other menu items will be disabled.



Application Settings

The Application Settings menu is used to change the color theme of Network eManager, perform account setup and set restriction access. The Account Setup and Restriction Menus are identical to the icon-based menus.

Navigating The New Menus

Navigating to the program commands is slightly different than the previous eManager releases.

The program menu is no longer on the side of the screen; it is now on top of the Network eManager screen. When you click on the command, a drop-down box displays the commands in that function set. For example, all of the Station-related programs are now under the Station main menu. The list of station DNs are still on the right side. The Node Selection Panel allows you to see the data values from different CIX systems by simply clicking on the equipment name without having to log out.

The left column on the screen shows the Node Connection Panel. All of the current CIX sites that you are connected to are shown. The graphic in the middle of the screen shows the details of all the CIX equipment in the node. The detail information includes: Equipment Type, Equipment Version, Equipment Name, IP Address, Voice Mail, MAC Address and Country.

One node will be highlighted to indicate the current node connection. Clicking on the other nodes will display the data for that given node.

Network eManager Command Structure

Network eManager no longer displays the following menus that were a part of the previous eManager "Home" page.:

- Basic Configuration
- Advance Configuration
- Utilities
- Switch Equipment

The commands and functions of those menus have been moved to the following menus:

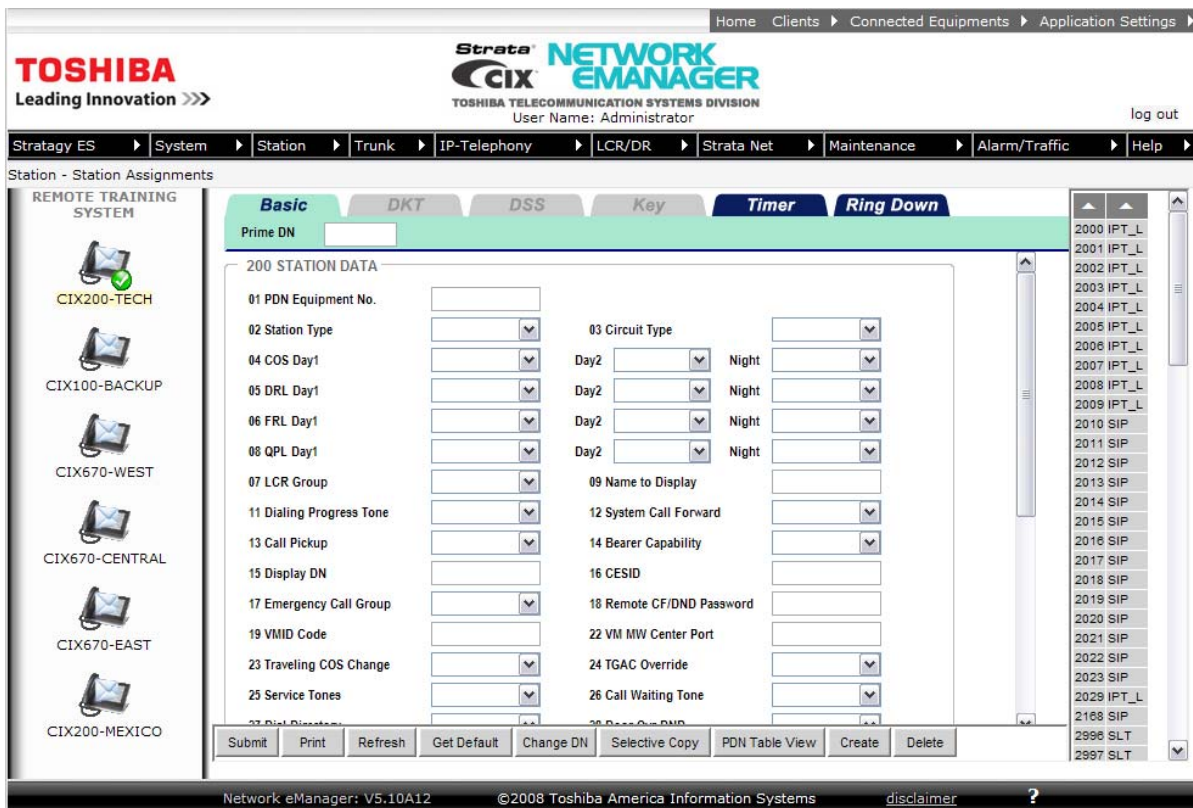
- Stratagy ES
- Commands
- Systems
- Stations
- Trunk
- IP Telephony
- LCR/DR
- Strata Net
- Maintenance
- Alarm/Traffic

All of the programming covered in the Basic Configuration, Advance Configuration and Utilities are merged under different menus in the new Network eManager. For example, in the previous eManager, the Backup procedure was under the Utilities > Data Backup. The path to the Backup procedure in the Network eManager is Maintenance > CIX Data Backup. The Data Backup procedure will covered in more detail in this document.

Accessing Multiple Systems

A powerful feature of Network eManager is the ability to access the programming data on multiple CIX systems without having to log-off of one system then, log-on to the next system.

In this example, Network eManager is currently viewing the Station programming data for the CIX670-WEST switch. Program 200 displays the familiar list of stations on the right with the details of each station in the work area.



Accessing the Data from Multiple Systems

By simply clicking on a different system in the Node Selection Panel, the Administrator can switch from viewing the Station Programming data at one node to viewing the data from another node without having to logout.

Node Selection Panel

The Node Selection Panel provides the following features:

- Provides a list of the group member CIX systems and CIX/SES pairs (nodes).
- Allows the user to show the data from another node on the current page by simple clicking on the node.
- Indicates Active Node with a distinct glyph. The Active Node is the CIX or CIX/SES pair that is currently accessed by the page.

The New “Copy To” Multiple Equipment

A powerful feature of Network eManager is the ability to selectively copy data from one CIX system to multiple CIX systems.

For example, to copy selected fields in Program 260, Full IP Station Assignments:

1. Click on all the fields to be copied. For example; COS Day1, DRL Day1, FRL Day1, QPL Day1 and LCR Group. The 'Highlight All' button is still available to select all values for a copy.
2. Click the 'Select Copy To PDN(s)' button
3. Notice that PDNs from different systems are visible. Select all the PDNs the selected fields will be copied to.

The New “Apply To” Multiple Equipment

Network eManager allows the user to modify programming and Apply To multiple CIX systems. When you click the Apply To button, the Apply To Group CIX dialogue box appears. From the dialogue box, the user can select which CIX systems the changes will be applied to.

When the Submit button is clicked, the changed program values will propagate to all of the connected systems. There is no need to switch back and forth between CIX systems to copy the changed data to different systems.

Backing Up The Database On Multiple CIX Systems

CIX Data Backup

Network eManager can backup data from multiple systems. This new function can save significant time when preparing to update the CIX system software on multiple nodes and when a backup needs to be done on each node.

The new database backup method of provides extended functionality including:

- Selecting the new software file directly from the user's PC.
- Selecting multiple CIX systems for update and starting the procedure at once without further user interaction during the procedure.

The following actions must be done before the update process can start:

- Locate the new CIX software by CIX system type.
- Decide which CIX systems will be updated, type should match with software.
- Decide, for each system, whether the new software should be automatically activated after it is uploaded.
- Decide, for each system, whether the current CIX database should be restored during the new software activation. If yes, Network eManager will create a CIX database backup prior uploading the new software.

Backing Up The Database On Multiple CIX Systems

The new CIX Data Backup is under **Maintenance -> CIX Data Backup**. The user can select which systems need to be backed up or can select all of the systems at the site. If any of the systems fail to backup it will not halt the entire backup operation. The backup procedure will continue to run for the other systems.

Updating the Software On Multiple CIX Systems

The new CIX Software Update is located under the **Maintenance -> CIX Software Update**. In the Upload window you have the option of backing up the CIX systems prior to the upgrade. If the user clicks on the <Yes> button, the database backup screen will be displayed allowing you to select the databases to backup. Once the backup procedure has been completed, click on the Browse button to find the corresponding CIX software update for each CIX system that needs to be backed up. The update software must match the corresponding system otherwise the update procedure will fail. Then click on the Upload file(s) to eManager server button. Network eManager will then copy the update software to a designated folder in the Network eManager server.

When all the CIX software updates have been uploaded, press the <Start> button to complete the process.

Note Network eManager requires the update file you download from the Toshiba F.Y.I. website remain in zip format. Do not unzip the update file or the update process will fail.

Creating Network DNs in Multiple Systems

The new Network eManager can automatically build Network DN stations from one system and have it automatically created in the other nodes of a Strata Net network. From the Network eManager configuration screen, click on Strata Net -> Network DN Setup -> Add New Station.

Note The Strata Net menu only becomes available for access if Strata Net mode was chosen during the connection.

Note Only one DN can be created across multiple nodes at one time.

In the Add New Station window, the following information needs to be filled in:

- User Name
- Phone Type
- Extension

In the 'Update Network DN table in all nodes?' line on the bottom of the screen click to select the 'Yes' radio button.