
InetSupervisor-

InetSup_SetupManual

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1 Operating System Setup

1.1 Install the Windows Professional or Server Operating System

InetSupervisor requires a Windows operating system of *windows 2000* or later. The operating system must be of a professional or server edition (*windows XP home* will not work). When prompted for computer name enter “LONSERVER”. **It is recommended that the LONSERVER be configured with a static IP address.**

1.2 Install the “IIS” Option for Windows OS:

1. Click **Start**, then **Settings**, then select **Control Panel**.
2. Double click **Add/Remove Programs**. When the **Add/Remove Programs** dialog box opens (**FIGURE 1.**), select **Add/Remove Windows Components**.

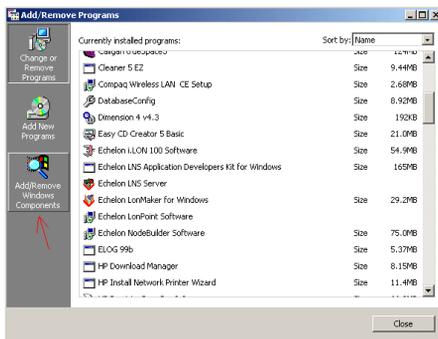


FIGURE 1.



FIGURE 2.

3. When the **Windows Components Wizard** dialog box opens (**FIGURE 2.**), place a check mark on **Internet Information Services (IIS)**, then click **Next**.
4. Follow the on-screen instructions. When the **Windows Components Wizard** has completed, click **Finish**.
5. Close the **Add/Remove Programs** dialog box.

1.3 Install the Latest Operating System Service Pack

NOTE: This step is not necessary to install **InetSupervisor**, but it will increase your computer's protection against viruses.

1. Click **Start**, then **Windows Update** (FIGURE 3).

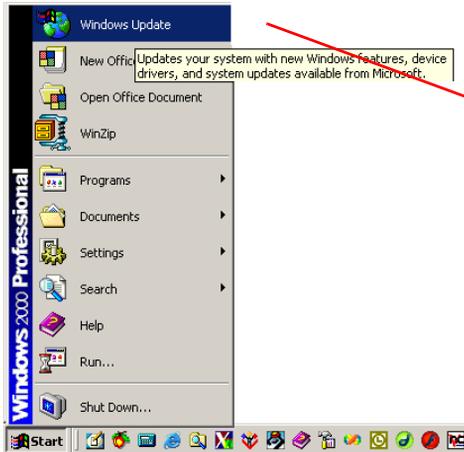


FIGURE 3.



FIGURE 4.

2. When **Microsoft Windows Update - Internet Explorer** opens (FIGURE 4.) select **Scan For Updates**.
3. Once updates have been found select **Critical Updates and Service Packs**.
4. Follow the on-screen instructions and close **Internet Explorer** when finished.

2 Lonworks Network Installation

2.1 Install Echelon Network Management LNS 3.0

1. Install *LonMaker for Windows 3.0* (or later) with the latest service pack. Check <http://www.echelon.com> for the latest updates. **InetSupervisor** will work with most LNS 3.0 or later databases.
2. Build and commission the LonWorks network. Set up your computer to be an LNS Server.

It is not necessary to run the LNS Server during the operation of InetSupervisor.

note: If not using a Lonworks network please skip this step

3 InetSuite Installation

3.1 Download installer

Place *Inetsupervisor* CD in the CD-ROM drive or download from www.InetSupervisor.com. If downloading the InetSupervisor Suite from the Internet navigate to <http://www.InetSupervisor.com> and click on the InetDownload button. Download the installation CD .rar or .zip file. When the download is done unpack the installation files to a temporary location. For information and tools to unpack the com-

pressed files please visit www.winzip.com or www.rarlab.com. If installer does not start automatically or if running from a download start the installation program by clicking on *Launch.exe*(**Figure 5**) .



Figure 5

From here click *Install Products* to choose which products to install(**Figure 6**).



Figure 6

1. **DotNet Framework:** This installs Microsoft's *DotNet* framework. It is required to run InetSupervisor.
2. **Database Server:** The DatabaseServer needs to be installed in most cases. The exception is if the PC already has a default instance of the MS SQL Server installed. Typically software from Honeywell, CSI, and Circon installs the MS SQL Server.
3. **Database Config:** This is required for InetSupervisor. It gives a portal to manipulate and configure the Inetsupervisor configurations and databases.
4. **Concentrator Service:** Required to handle alarming, trends, schedules, ect. It must be installed on the same computer as the SQL server.
5. **HMI Web:** Installs the virtual web directory for Inetsupervisor web pages.
6. **LNS Driver Service:** Install if you are going to attach to a LonWorks network. This must be installed on the computer with the LNS server to communicate with the LNS network. The LNS server must be installed prior to installing the LNS Driver Service.
7. **BACnet Driver:** Install if InetSupervisor is to communicate with a BACnet over IP network including Johnson Controls.
8. **Alarm Manager:** A client side alarm management utility. It may be installed on any computers. This is to be installed on remote computers

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9. **HMI Web Service:** Provides the necessary frame-work for remote communications with outside applications like the *Alarm Manager*. This is necessary if using remote applications.
 10. **TEAM:** This installs InetSupervisor's phone-based after-hours tenet scheduling and billing system *InetTEAM*.

3.2 *Install DotNet Framework*

1. Click on *DotNet Framework*. Follow on-screen instructions to complete the installation. This must be installed before any other installations begin.

3.3 *Install DatabaseServer*

1. Click on *DatabaseServer*. Follow on-screen instructions to complete the installation.
2. **Restart** the computer when installation completes.

3.4 *Install DatabaseConfig*

1. Click on *Database Config*. Follow on-screen instructions. If you have not installed *DotNet Framework* the installer will prompt you to install this first.
2. The *Database Config* application will automatically start. You may start using the program or close it and continue the installation process.

3.5 *Install Concentrator*

1. Click on *Concentrator Service*.
2. Read and click on Accept to agree to the software licence agreement.
3. Follow on-screen instructions to complete the installation.

3.6 HMI Web

1. Click on *HMIWeb*. Please note that you need to have the IIS Web Server installed prior to this step. See beginning of this manual for IIS installation instructions.
2. Follow on-screen instructions to complete the installation.

3.7 Install LNSDriver

1. Install this only if you are using an *LNS database* with *LNS Turbo*.
2. Click on *LNSDriver Service*.
3. Read and click on Accept to agree to the software licence agreement.
4. Follow on-screen instructions to complete the installation.

3.8 Install BACnetDriver

1. Install this if you planing to use InetSupervisor with a BACnet over IP network. InetSupervisor will work generic BACnet over IP databases including Johnson Controls.
2. Click on *BACnet Driver*.
3. If asked if you wish to install the Microsoft Visual J# .NET Redistributable Package click Yes(**Figure**

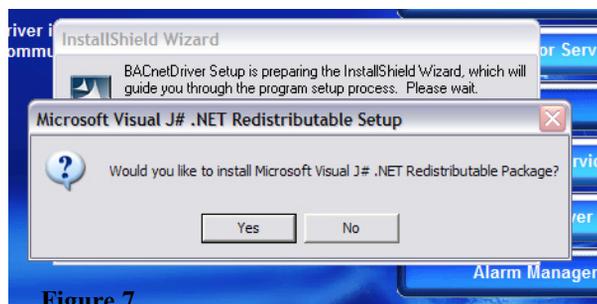


Figure 7

- 7).
4. When finished click ok.
5. Read and click on Accept to agree to the software licence agreement.
6. Follow on-screen instructions to complete the installation.

3.9 Install Alarm Manager

1. Click on *Alarm Manager*.
2. Read and click on *Accept* to agree to the software licence agreement.
3. Follow on-screen instructions to complete the installation.

3.10 Install HMIWeb Service

1. Click on *HMIWeb Service*. Please note that you need to have the IIS Web Server installed prior to this step. See beginning of this manual for IIS installation instructions.
2. Follow on-screen instructions to complete the installation.

3.11 Installing TEAM

Please refer to the InetTEAM users guide for installation instructions.

3.12 Finish

When you have finished installing all of the programs you wish to use, you may click *Menu* to return to the Launch menu and then *Exit* to exit the installation program. Please reboot the computer at this time.

4 Configuring InetSupervisor

4.1 Registration

InetSupervisor ships with 20 database points available free. To add more points InetSupervisor need's to be upgraded. To upgrade InetSupervisor:

1. Click **Start**, then **Programs**, **HMI**, **DBConfig**. The InetSupervisor Login dialog box will appear. Log-in with default user name "q" and password "q" (**Figure 8**).



Figure 8.

2. The **DatabaseConfig** dialog box will appear (**Figure 9**).

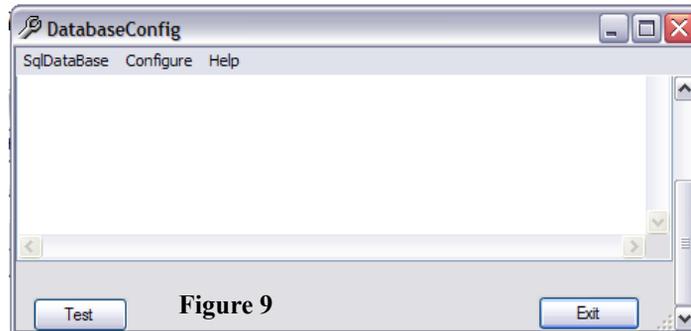
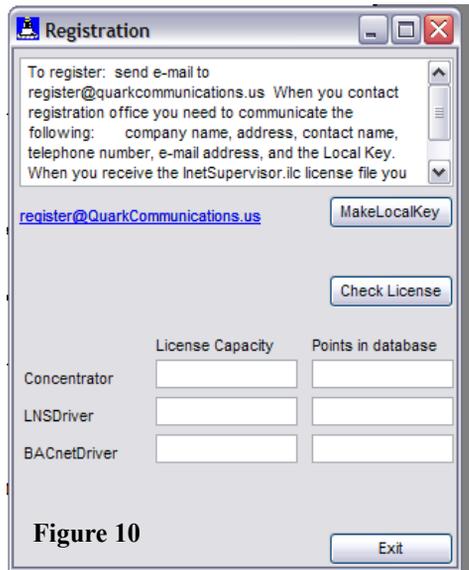


Figure 9

3. Click **Configure, Registration** the **Registration** utility will show(**Figure 10**).



4. Click **MakeLocalKey**
5. A file named **InetLicense.LocalKey** in the **C://Lonworks/Apps/QCI/** folder, this file needs to be e-mailed to your local dealer along with company name, address, contact name, telephone number, e-mail address and the amount of point you wish to purchase. They will send back a file named **InetLicense.ilc** place this file in the same folder and restart computer. When adding additional points after the first upgrade please make a new **InetLicense.LocalKey** and send both **InetLicense.LocalKey** and existing **InetLicense.ilc** files to your dealer.

You may see your current database point counts and license capacity by clicking on the **Check License** button in the Registration utility.

4.2 Configure DatabaseConfig

1. Click **Start**, then **Programs, HMI, DBConfig**. A dialog box with instructions to configure the **LNS Network Name and LNS Network Interface card** may appear. If this is the case, click **OK** to continue.
2. The InetSupervisor Login dialog box will appear. Log-in with default user name “q” and password “q”
3. The **DatabaseConfig** dialog box will appear

4. Click *Configure*, then *SQL Database*

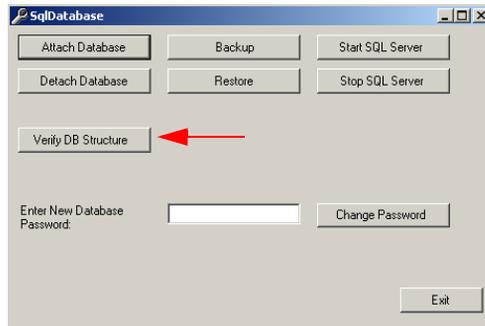


Figure 11

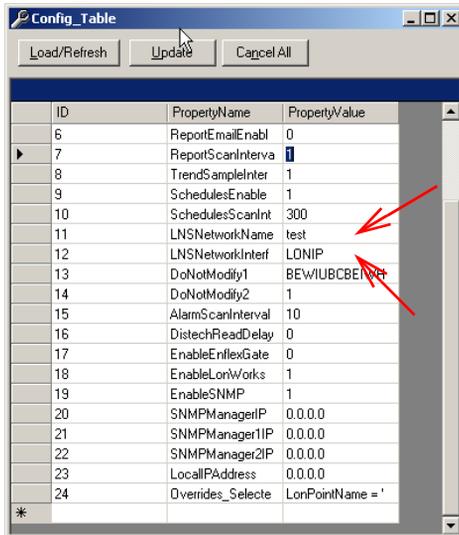
5. Click *Verify Database Structure (Figure 11)* to update the database to its latest version.
6. Exit when the control is done checking the database

NOTE: Do not skip database updating, even on new installations. It will take a few seconds.

4.3 Modify InetSupervisor Startup Parameters:

1. Click *SqlDatabase*, then select *Config Table*
2. Click *Load/Refresh* to populate the table.

3. Enter the *LNS Network Name* into its *Property Value* field (see the top arrow in **Figure 12.**).



The screenshot shows a window titled "Config_Table" with three buttons: "Load/Refresh", "Update", and "Cancel All". Below the buttons is a table with the following data:

ID	PropertyName	PropertyValue
6	ReportEmailEnabl	0
7	ReportScanInterva	1
8	TrendSampleInter	1
9	SchedulesEnable	1
10	SchedulesScanInt	300
11	LNSNetworkName	test
12	LNSNetworkInterf	LONIP
13	DoNotModify1	BEWUUBCBEWU
14	DoNotModify2	1
15	AlarmScanInterval	10
16	DistechReadDelay	0
17	EnableEnflexGate	0
18	EnableLonWorks	1
19	EnableSNMP	1
20	SNMPManagerIP	0.0.0.0
21	SNMPManager1IP	0.0.0.0
22	SNMPManager2IP	0.0.0.0
23	LocalPAddress	0.0.0.0
24	Overrides_Selecte	LonPointName = '

Figure 12.

4. Enter the *LNSNetworkInterfaceName* into its *Property Value* field (see the bottom arrow on **FIGURE 12.**).
5. Click *Update* to write changes into the database. Note that the *LNSNetworkName* and *LNSNetworkInterfaceName* are both case sensitive.
6. Close the *Config Table*.
7. Restart the *DB Config* application. The application will now open without the previous dialog box.

4.4 Register InetSupervisor:

1. Click *Start*, then *Programs, HMI, DBConfig*.
2. Type your name and password (default username is *q*, default password is *q*) in the Login dialog box.
3. The *DatabaseConfig* dialog box will appear.
4. Click on *Configure*, then select *Registration*.

4.5 Importing LNS Network Variables (“Points”):

1. Click *Start*, then *Programs, HMI, LNSConfig*.

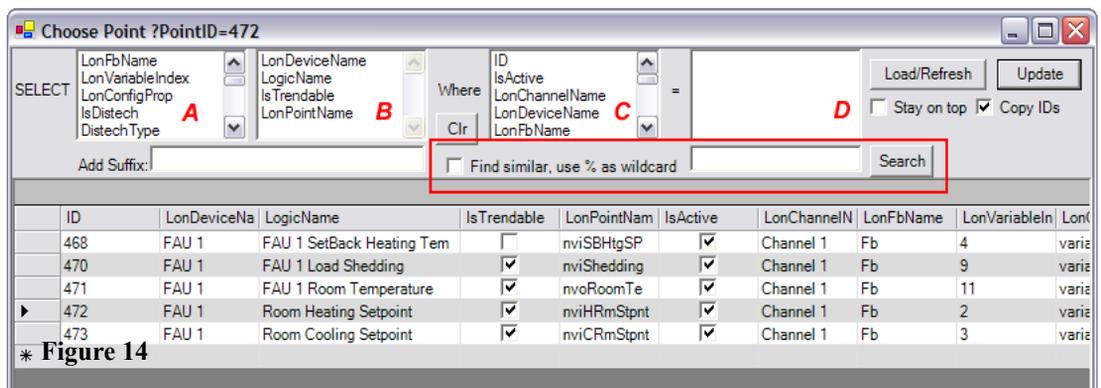
5 The DatabaseConfig Points_Table

5.1 Build in search and filter capabilities

The **Points_Table**, shown below in **Figure 14**, has some powerful search and display functions related to working with the **Building Automation System Point Variables**. Display the table by opening the **DatabaseConfig Utility** and then clicking **SQL Database/Points_Table**. Click **Load** to populate the table. The **Update** button is used to save any table changes to the database (a must for affecting changes). The box in the upper left (**A**) shows all the table columns (point attributes). Box **B**, just to the right, shows which columns will be displayed first (from left to right). These are user-selected by clicking column names in box **A**.

The points displayed can be narrowed-down (searched) by selecting a column name (attribute) in the **Where** box (**C**) and a specific value of the attribute in the “=” box (**D**).

By way of example, you are interested in displaying certain attributes of certain system points. You want to display points that have the **LogicName** “*occupancy*”, and the configuration attributes you’re most interested in viewing are **IsActive**, **LonIsDigital**, **LogicName**, **PointValue**, **LonDigOn**, **LonDigOff**, and **PointIsAlarm**. So in box **A** we select these seven point attributes and as you click them they appear in box **B**. You want to display only the points where the attribute **LogicName** has the value “*occupancy*”. So in box **C** we click **LogicName** and when we do, all assigned logic names will appear in box **D**. You click the one we’re interested in, namely “*occupancy*”. In a few seconds, the table refreshes, displaying all relevant points and attributes. In addi-



tion if we wanted only the points for a specific group units, you can change the selection in box **C**

to reflect the group like ***LonDeviceName***. Check the box called **Find similar**, then type in the group you wish to see then click search, the table refreshes, displaying all relevant points. For example if you wish to see all equipment associated with AHU 2 type %AHU 2% and any name in ***LonDeviceName*** with AHU 2 in it will be displayed. The % symbol is used to as a wild card for the search engine. If you place a % before the search string than the engine will display any points with the search string at the end. The opposite is true if you use it at the end of the search string. If % is placed on both sides then it will look for the search string anywhere in the point. If you do not use the symbol then only point that match exactly as the search string will be displayed.

Note: If you are having trouble getting the table to load, make sure of the following:

1. ***LNS Network Name and Network Interface*** are configured correctly in the ***Config Table (DatabaseConfig/SqlDataBase/Config Table/LoadRefresh)***.
2. ***LonWorks*** network is configured correctly (in ***LonMaker*** network setup, “***Network Attached***”, ***interface name verified***, and “***Onnet***”).
3. Points have been imported (***LNSConfig/Configure/Import LonWorks Points/select Current Channel/Load Variables/Import Selected***). If the ***Current Channel*** window is blank, you’re not properly configured.
4. Exit and restart ***DatabaseConfig***.
5. Make sure your PC knows the ***IP Address*** and ***Port*** of the ***Network Interface***.

6 Creating Project-Specific Web Pages:

6.1 Configure DreamWeaver SITE

1. Install and Configure *DreamWeaver*. If you plan to install a full version of the *DreamWeaver* software, do so now. Alternately, you may install a trial version available at <http://www.macromedia.com>
2. Accept all default options during installation.

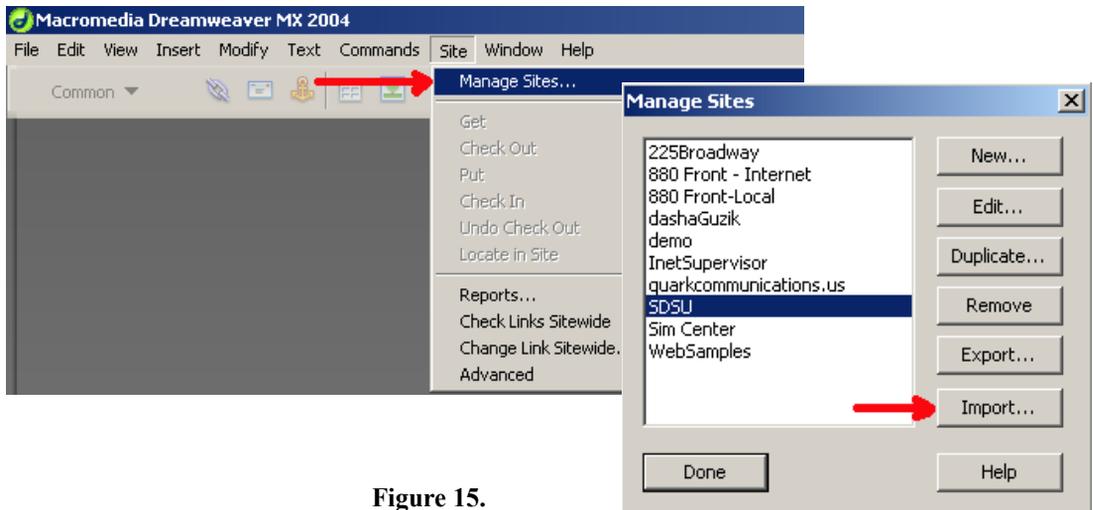


Figure 15.

3. Click *Site/Manage Sites*, then *Import* from the *Site Menu* pictured on the right of **Figure 15**. This may differ for some versions of *DreamWeaver*, i.e. *Site/Edit Site/Import*. Point to *HMI.ste* file located in *C:\LonWorks\apps\QCI\Others* directory. This will automatically configure the *DreamWeaver* to work with the installed web site framework.

Note: *DreamWeaver* comes with a great set of manuals and lessons. You can access these from the Help menu.

6.2 Create Web Pages with Dynamic Information from the LNS Network

Note: This section presents an overview of graphics generation. For a more complete description, refer to the *InetSupervisor Users Guide* and the *Flash Users Guide*.

1. Make a new **.asp** page in *DreamWeaver*. Go to **File/New**, when the new document wizard appears choose Dynamic Page in the **Category** pane and ASP VBScript in the **Dynamic Page** pane, click create(**Figure 17**). This can also be done on the **Local Folder** pane, right-click in the root directory, then select **New File (Figure 16)**. Make sure the new file gets created in the web's root directory.
2. When the new file is created, give it the name **test** with an **.asp** extension.
3. Double click the file to open the **Designer (main work area)**.

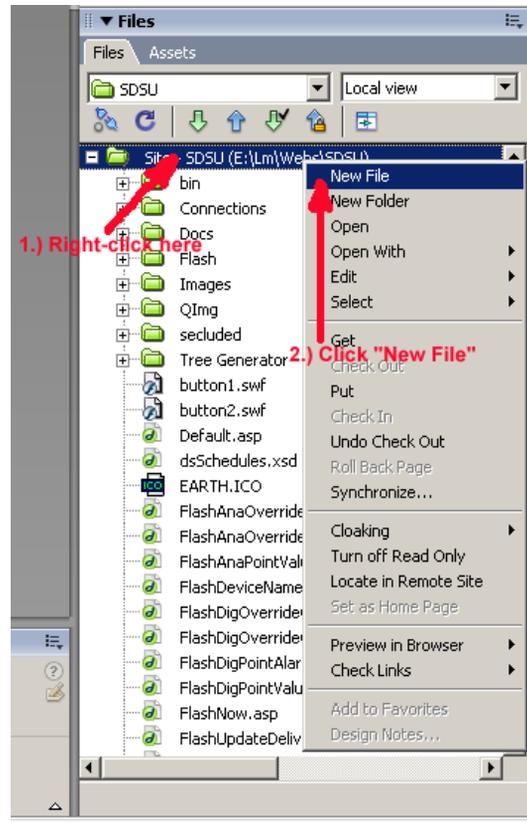


Figure 16.

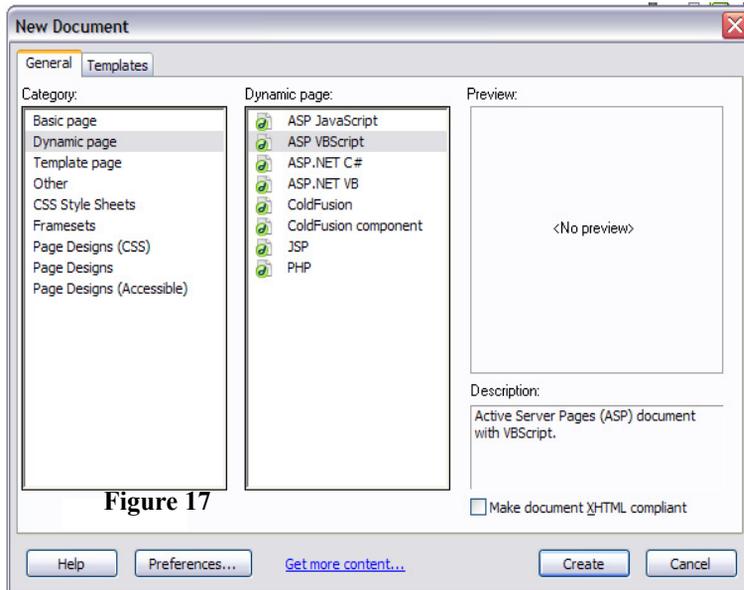


Figure 17

4. Within the *Designer* click *Insert*, then select *Layer*. Or alternately, click the *Layer* icon. (Figure 18 and 19)
5. Press the *F11* key if the *Assets* window is not open. Select *Flash Assets*. The graphical components used to build a page will be displayed to the right of the *Designer*. Open the folders to display the files.



Figure 18

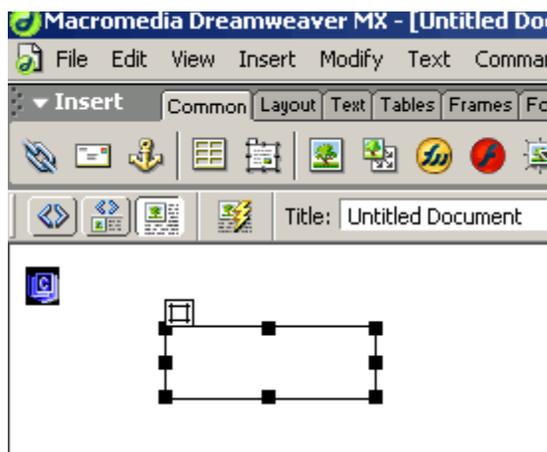


Figure 19

6. As a simple example of generating a system graphic. Under *Files* on the right side of *DreamWeaver*, in the folder *Site-hmi/FX/001/F*, find the *Flash* component named *Fx-PtVal-20x50.swf*. Click/hold on it and drag and drop it onto your layer (Figure 20). A desired description of the information displayed by the flash component can be entered as text by clicking adjacent to the flash component within the layer.
7. You can use other *Flash* components, starting with “*Fx-*”, to:
 - provide override capability for points - “*Fx-Override-PtVal.swf*”

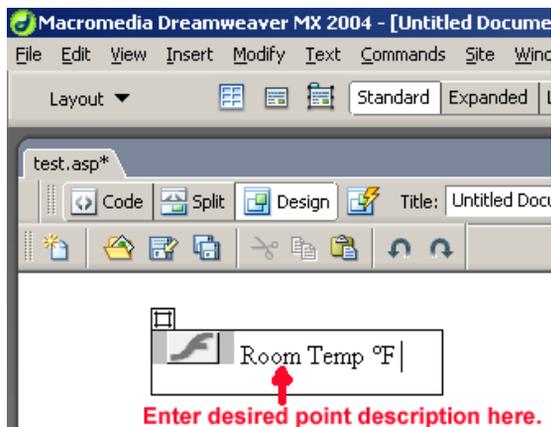


Figure 20

- display the point value for points - “*Fx-PtVal-20x50.swf*”
- provide 3-D animated graphics - using components prefixed with “*Fx-3d*”
- refer to the *Flash Users Guide* for full description of each flash component and their functionalities.

8. Before you can use components for digital points you must define these points as digital. Refer to the *InetSupervisor Users Guide* for detailed instructions on this topic.
9. Each graphical component (not *Fx-Communicator.swf*) will likely have a system point (variable) associated with it. Here’s how a graphic is linked to a point. Press **Ctrl+F3** to open the *Properties* window. Click on the *Flash* component you dropped in the layer to select it. In the *Properties* window, type in a *PointID* for the *Flash* component. For example, to assign the PointID 155, your *Properties* window



Figure 21

would look like this: *Flash/Fl-PtVal-20x50.swf?PointID=155* (Figure 21)(no spaces, make sure the question mark precedes “PointID”). The point addressing is critical, case sensitive and requires the exact syntax as documented herein. The *Users Guide* describes how to assign point IDs using the *Points Table* utility. This utility automates assignment of point IDs to flash components. The *PointID* gets automatically assigned during the Point-Import process. ID's can be browsed by launching the *DBConfig* application. Enter your user name and the password (*default username is q, default password is q*) in the LogIn dialog box, then click *SQL Database, Points_Table/LoadRefresh*. Here you can search by *LonDevice-Name, LonPointName, or LogicName* or any way of your choosing as mentioned in the *DatabaseConfig Points_Table* for all available points. If *Copy ID's* is check marked and you click any where on the row of a point the control will place the string *?PointID=* and the ID number of the row highlighted will

be placed in your copy clipboard. The number can be verified at the to left of the controls head (FIGURE 22)

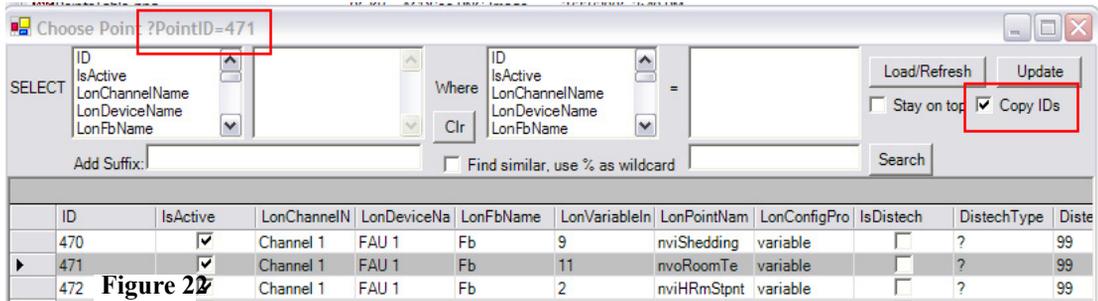


Figure 22

You can then paste (Ctrl + V) the string onto the end of the file name.

- As you build your graphics, you can view them as they'll appear on the Web by pressing key **F12** to launch **Internet Explorer**. At the web-browser page, click **Refresh**. Often the browser will create a cache of all pages viewed and cause the old page to not be refreshed. To enable automatic refresh, in the browser, click **Tools, Internet Options, Temporary Internet Files, Settings, Check for newer version of stored pages, Every visit to the page** (Figure 23).

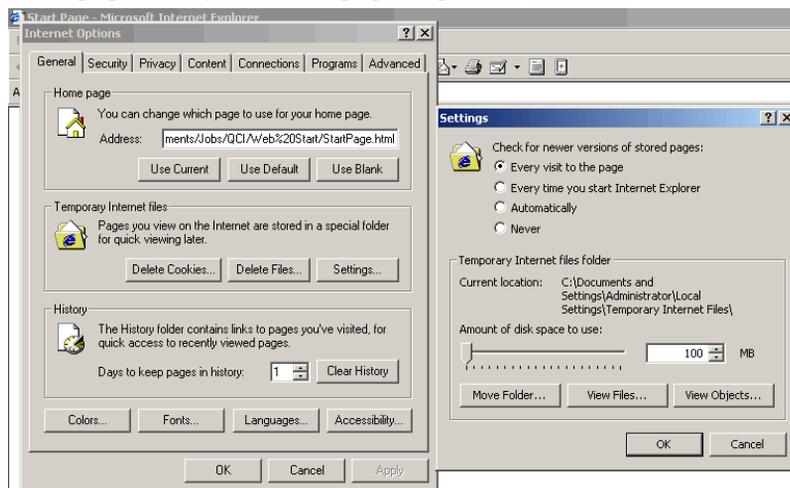


Figure 23

11. You can view the pre programmed pages related to the functions of *InetSupervisor* by typing *http://localhost/hmi/QFrameset.asp* in the address bar of *Internet Explorer* at the *LonServer* or any other computer attached to the network. You may have to substitute *localhost* with the name of the web-server computer or its IP address. For the default screen the *Username* is *q* and the *Password* is *q*(**Figure 24**). You can edit Login information via the *Database Config* utility (in the *WebUsers Table*). In the left frame is a navigation tree, expand the *Project Pages folder* and click the *Add Your Pages Here* file(**Figure 25**).

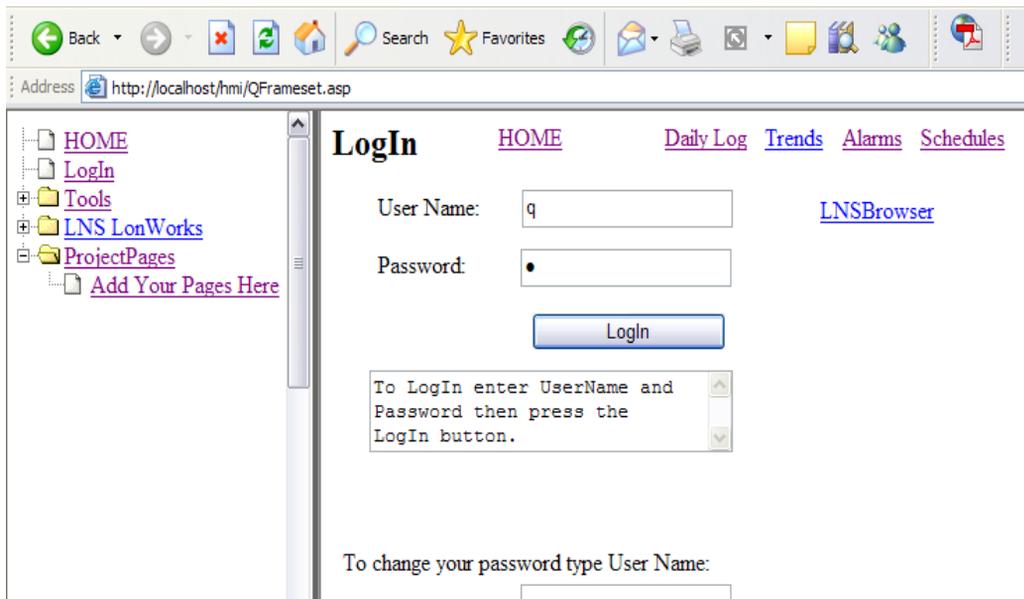


Figure 24

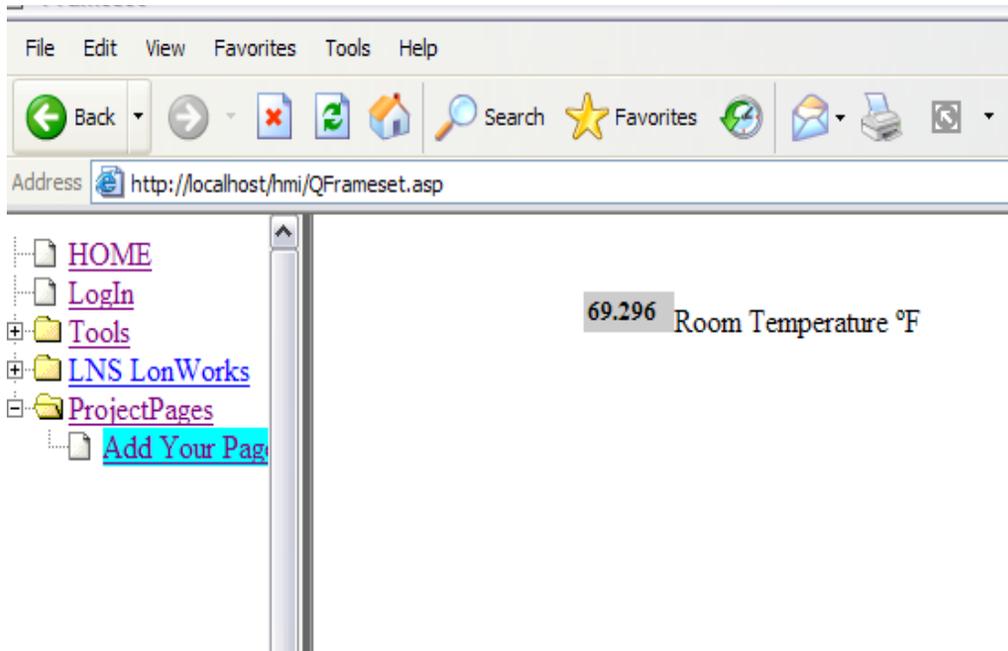


Figure 25

To add graphics, more functionality and information, please read the *Inetsupervisor User Guides*, *Flash User Guide*, and *DreamWeaver* help files

Check for updates to this manual at <http://www.InetSupervisor.com>

If you have further questions, send an E-mail to Technical Support at Quark Communications: support@quarkcommunications.us or call 760-634-6845

