GE
Security

FCWnx 7.5.1
Release Notes

Content

Introduction

Note: A new license is required for all FCWnx 7.5.1 installations, including new installations and upgrades.

The printed FCWnx 7.5.1 Release Notes document that is included in your FCWnx 7.5.1 media kit includes late-breaking information on this product and notes on new enhancements and/or fixes. Where information differs between the printed release notes and the manual or release notes on the Facility Commander Wnx Installation DVD, the printed release notes supersede the documentation on the DVD.

For installation instructions, refer to the Facility Commander Wnx 7.5 Installation Manual (Professional, Enterprise, or Global Edition) included on the Facility Commander Wnx Installation DVD, as well as the Documentation CD.

The default local windows user account "secure" password used in FCWnx 7.0 SP3 and earlier has changed from "master" to "SecurityMaster08" (case sensitive).

For customers running 64-bit operating systems, refer to the `64-bit-Readme.pdf` file, located on the FCWnx 7.5.1 Installation DVD. To open the file:

1. From the FCWnx 7.5.1 Installation DVD main page, click Browse DVD.

2. Double-click the 64-bit folder, and then double-click `64-bit-Readme.pdf`.

Included in your shipment

The following CD/DVDs are included in your Facility Commander Wnx media kit:

FCWnx 7.5.1 Software Installation DVD: Contains installation software for FCWnx 7.5.1. Also contains basic training demonstration modules, currently available National Language Support (NLS) packs, and Application Program Interface (API) tools.

The DVD also contains currently available FCWnx Service Packs, Feature Packs, and/or Hot fixes as well as the latest PXNplus, DirecDoor, and ACUXL controller firmware files.

FCWnx 7.5.1 Video Drivers DVD: Contains separately licensed third party video drivers optionally supported by FCWnx. GE Security video drivers are standard and are automatically installed from the FCWnx Software Installation DVD for your convenience.

FCWnx 7.5.1 Microsoft Updates DVD: Contains Microsoft product updates.

Documentation CD: Contains the latest manuals for GE Security products.

FCWnx 7.5.1 New Features

Note: The FCWnx 7.5 documentation has not been updated to reflect FCWnx 7.5.1 new features.

The following is a brief description of new features included with FCWnx 7.5.1. Refer to "FCWnx 7.5.1 New Feature Details" on page 16 for specific information on new functionality.

Technology platforms

FCWnx 7.5.1 supports the following new technology platforms:

- Windows Server 2008 R2 (64-bit)
- Windows 7 (32-bit and 64-bit)
- Virtualization: Compatible with VMWare and Hyper-V environments. Refer to EMC's VMWare Infrastructure Enterprise and Microsoft's Virtual Server 2008 with Hyper-V documentation for installation and setup procedures. Each virtualized machine must be configured to at least the minimum requirement for memory and disk space allocation specified in the Facility Commander Wnx 7.5 Installation Manual (Professional, Enterprise, or Global Edition).

New system features

SQL Password For FCWnx: The License screen includes a new SQL Password For FCWnx field. A user can now enter a password that will satisfy the password strength rules of their IT department.

Multiple NIC support: The system now allows the license to survive multiple network interface cards (NIC). This was a licensing problem when wireless NICs were used with laptop computers.

Schedule Host and API alarms: Host and API alarms can now be scheduled the same way that panel alarms are. Previously, this option was disabled for these types of alarms.

Use It or Lose It: This feature has been enhanced to allow a number of days from 1 to 999 inclusive.

Alarm Monitor Sorting: You can now sort the columns of the Alarm Monitor form.

Enhanced Wide Area Network Communications: Changes have been introduced to improve system robustness in high latency network environments with respect to the Alarm, Activity, and Client monitoring functions.

New video features

VisioWave renderer: Integrated the VisioWave rendering engine for utilizing hardware rendering for all VisioWave (VOS) devices and Sym devices.

Support for new video devices: Support for the following video devices:

- Discovery 105E
- Discovery ECVRS
- DVSRxU-16/4/8
- Evolution 28XX
- TruVision NVR40
- TruVision TVR10
- UltraView NVR80
- Pelco DX8100

New device types and icons: Each video device model is categorized as one of the following four device types: DVR, NVR, Storage, or Encoder. In the VMC navigation tree, new icons have been added for each device type.

Remote storage support: Support for configuring remote storage for video devices (requires support by the video driver).

Set and reset the preset position: Support for resetting the position of a defined preset for a PTZ camera (requires support by video driver).

New alarm types: The following new alarm types are now supported (requires support by video driver):

- Camera analytics alarm
- Camera trouble alarm
- Video device health trouble alarm
- Video device health fail alarm

Create Evidence CD: The create evidence CD feature has been updated, and it can also be launched from the Video Console. A Terms & Conditions dialog for reviewing an Evidence CD is included.

Sub-Navigation tree: In the Video Console Custom View tab, a sub-navigation tree has been added to display only the devices that are current being displayed in the video pane.

Support for up to 256 cameras: The limitation for number of cameras supported by a video device has been increased to 256.

Video device status from Navigation Tree: The video device status is now available from the navigation tree by right-clicking on the video device, and then selecting Status.

Navigation Tree size: The navigation tree size can be customized from the Video Viewer Preferences panel. The new size does not take effect until you log off, and then log on to the FCWnx application.

Time Zone tab: A Time Zone tab has been added to the Video Equipment form to allow video devices to be configured to a specific time zone regardless of the host computer's time zone.

FCWnx 7.5 New Features

Technology platforms

FCWnx 7.5 supports the following new technology platforms:

- Windows Vista
- Windows Server 2008
- SQL 2008 Express (FCWnx 7.5 Professional Edition)
- SQL 2008 Server (FCWnx 7.5 Enterprise and Global Editions)
- Crystal Reports Server 2008 for external reporting (replacement for Report Commander option, no longer supported)

Controller support

FCWnx 7.5 provides base license support for Micro or ACU series controller system deployments. An upgrade and migration path for GE's InfoGraphics Diamond II customer ACU installations is also provided.

New system features

Use or lose it: Automatic credential deactivation based on duration of inactivity compliance policy.

Threat level access: Ability to define the hierarchy of personnel allowed access per controller.

Alarm lock down: Ability to change the PXNPlus controller operation mode based on local alarm inputs from global event triggers.

Local keypad extended unlock/shunt: PXNplus controller support for reader keypad extended unlock command with local shunt and pre-alarm announcement.

Alarm category: Provides user definable classification of alarm records for augmenting alarm monitor assessment.

New external reports: Added "Who Has Access" and "Reader Where When" reports for easy auditing.

Application notes

Installing FCWnx or applying Service Packs/Feature Packs

When installing FCWnx or applying an FCWnx Service Pack on any computer, you must be logged on with a Windows user account (local or domain) that is a member of the Administrators group. The Administrators group must have permission to apply required registry changes (full permission control).

Note: The recommended installation for a workgroup environment is to use a common windows user account and password with local administrator permissions on all computers. This allows the remote FCWnx client installations to register their license on the server.

To install the FCWnx application or an FCWnx Service Pack/Feature Pack on any National Language Support (NLS) operating system that does not have a local "Administrators" group created in English by Windows, a fully permissioned Administrators group must be created.

FCWnx default port assignments

FCWnx uses the following default port assignments when installed. FCWnx also communicates through DCOM requests via the operating system. The operating system dynamically handles the port assignments for DCOM and the default range used for communication are 1024-65535.

You can configure DCOM to use TCP rather than RPC at the operating system level, effectively optimizing the number of ports required. Contact Technical Support for configuration assistance.

Service	Port assigned
Media server:	8085 (HTTP - inbound from video client) 8085 (HTTP - inbound from video client) 8086 (HTTP - inbound communication from host) 8087 (HTTP - outbound to host) 8088 (TCP - inbound stream requests from video client)
Video devices:	
SymSafe/SymDec	1024 (TCP – command and control) Random (UDP – video streams)
DVMRe and StoreSafe	1024 (TCP)
VisioWave	4001 (TCP – command and control) 4444 (TCP – event control) 11001 (TCP – storage control) 5001 – 5256 (UDP – video streams) 8001 – 8256 (TCP – PTZ control)
DVSRxU and TruVision TVR 10	8000 - (TCP – command and control)
Integral	18772 (TCP – (command and control)
Intellex	5000 - 5002 (TCP – (command and control)
Nice	2024 (TCP – (command and control)
Panasonic	80 (HTTP – (command and control)

Service	Port assigned
Pelco	9002 (TCP – (command and control)

General

- The SQL Server default "sa" password has changed from "master" to "SecurityMaster08" (case sensitive).
- After upgrading to FCWnx 7.5 or newer, you must make sure that the correct Windows User Name password is entered on the Preferences form or you will get an error when trying to flash the controller.
- If upgrading from FCWnx 7.0 to 7.5 or newer, Service Pack 3 must be applied before performing the database conversion.
- Microsoft no longer includes WinHlp32.exe as a component of the Windows operating system. This may cause problems for customers who want to upgrade to Windows Vista or to Windows Server 2008, but still rely on the 32-bit .hlp files. The Microsoft WinHlp32.exe for Windows Vista and WinHlp32.exe for Windows Server 2008 are available on the Microsoft Updates CD included with your media kit.
- FCWnx 7.5 or newer is not supported on Windows Server 2000 or SQL Server 2000.

Running FCWnx

As part of the initial FCWnx installation, a local SPAdmin group is created on each machine that FCWnx is installed on. A default local Windows user account "secure" is also created and assigned membership to the local SPAdmin group. This allows you to log on to the Windows "secure" user account and then run the FCWnx application.

To open and operate FCWnx on any computer, the Windows user account must be a member of the SPAdmin group, but that Windows user account is not required to be a member of the Administrators group.

Global Edition deployments

For Global applications, you must rerun SecurityConfig after the successful installation of global and regional servers.

For Global systems upgrading from FCWnx 7.5 to 7.5.1: After applying the FCWnx 7.5.1 upgrade to the global server and all regions, all regions/subscribers must be reinitialized with a new snapshot as follows:

1. Click Start, Programs, Microsoft SQL Server 2005 or 2008, and then SQL Server Management Studio.

2. At the Connect to Server dialog, connect to your SPSQL instance.

3. Click your computer name and SPSQL instance, Replication, and then Local Publications to display a list of local publications.

4. Right-click on SecurePerfect SPPublication. Click Reinitialize All Subscriptions.

5. On the Reinitialize Subscription(s) dialog, click the Use a new snapshot radio button. Make sure the Generate the new snapshot now check box is checked. Click Mark For Reinitialization.

6. Exit SQL Server Management Studio.

7. Relicense and then run SecurityConfig.

For Global applications running on Windows Server 2008, the Distributed File System services must be manually installed in accordance with Microsoft Windows Server 2008 requirements.

Prior to initiating a region recovery after a region database failover occurs, the repaired or restored region database should be online and replicating for at least 15 minutes to avoid any synchronization conflicts in the client table when a recovery is performed prematurely.

Changes to security devices hosted in a different region than the client workstation will not be applied until replication occurs on the remote database. It is recommended that administration of devices be done at a client workstation within the same region as the device. Refer to the FCWnx 7.5 Help for more information.

It is recommended that you disable the replication job before you add a region to a Global system, and then enable it after the region is added. To disable the replication:

1. Click Start, Programs, Microsoft SQL Server 2005 or 2008, and then SQL Server Management Studio.

2. At the Connect to Server dialog, connect to your SPSQL instance.

3. Click your computer name and SPSQL instance, SQL Server Agent, and then Jobs to display a list of jobs.

4. Right-click on your computer name\SPSQL-SecurePerfect-SPPublication-1. Click Disable.

5. Exit SQL Server Management Studio.

6. After the region is added, enable the replication job by following the steps above except; in step 4, click Enable.

Controller support

FCWnx 7.5 and 7.5.1 support the following controllers and firmware:

- ACUX, ACUXL, and ACURS series controllers (ACUXL firmware 08.39.03 or newer)
- M5, M3000, and Micro/2000 using a PXN or PXNplus CPU board (Micro firmware 7.5.14 or newer)
- DirecDoor (Micro firmware 7.5.14 or newer)

M-Series Controller Parameter Block configuration: M5, M2000, and M3000 PXNplus based controllers and DirecDoor controllers can be flash upgraded from within FCWnx using the Controller Monitor. Although Parameter Block information can also be viewed using the Flash Controller option from the Controller Monitor, that information can only be edited for reconfiguring these controllers directly using the browser-based integrated configuration tool on the controllers. Refer to the Controller Firmware Tools documents on the Documentation CD for additional information.

Known issues

General

- If .NET Framework 3.5 (with no service pack) is installed on your system, you must uninstall it and all versions of .NET Framework prior to installing FCWnx 7.5, which installs .NET Framework 3.5 SP1.

- Some graphics cards may have problems rendering video for VisioWave and SymSuite devices. Verify that the graphics card driver is upgraded to latest available version. If the latest video card driver is installed and there are still issues, reduce the hardware acceleration feature for the graphics card (if applicable).

- The Windows 7 operating system has the following limitations rendering video for VisioWave and SymSuite devices:

  Graphic cards may not function, even if the latest drivers are installed (such as NVIDIA QUADRO FX 500).

  Systems with two or more graphic cards may not function.

- **VisioWave and Symsuite devices:** FCWnx v.7.5 supported a 3x3 display (9 simultaneous streams at full ips and resolution). In FCWnx v.7.5.1, support has been increased to a 4x4 display (16 streams at full ips/resolution). While it is possible to process more streams of video, based on reducing the frame rate and resolution when the system is used to process more than 16 streams it will continue to consume system resources until it reaches the system maximum (dependent on configuration and resources). Exceeding the system resources available for video processing will cause the video client to disappear or lockup. Log off and log on will restore the video session, but will require reducing the total number of simultaneously viewed streams in order to maintain stability of the video viewer.

- While VSC and FCWnx may be run on the same machine, they may not be run simultaneously, as they utilize the same application code for video rendering. If you have a requirement for concurrent operation, they can be run in two separate Virtual Machine instances on the same physical machine.

- When configuring a Pelco video device, the device's time zone must be set to GMT time.

For machines running Windows XP or Windows 2003

- You must be logged in with local administrator rights to run the SecurityCnfg Utility.

- If the Firewall is selected ON, File and Printer Sharing on the Firewall Exceptions list must be enabled.

- Simple File Sharing is a feature in Windows XP that removes file sharing security options available in other versions of Windows. This setting must be disabled for FCWnx to operate successfully between servers and clients.

For machines running Windows Vista, Windows 2008, or Windows 7

- You must be logged in as the local administrator to run the SecurityCnfg Utility.

- You must be logged in with administrator rights to create databases and Licenses.

- User logged into the machine must be part of the SPAdmin Group to run FCWnx.

- The automatic windows updates feature must be disabled during installation.

- If the Video Management Console (VMC) will be running on this computer, Windows Communication Foundation HTTP Activation must be enabled.

- If the Firewall is selected ON, the following selections must be enabled in the Firewall Exceptions List:

  File and printer sharing
  Network discovery
  Workgroup Only: Remote Administration (The Remote Administration selection is not available in Windows 7 by default. Refer to your Window 7 documentation for details on enabling this selection.)

- The OH Receiver interface is not supported on machines running Windows Vista or Windows 2008.

- GE third party video drivers are not compatible on machines running Windows Vista, Windows 7, or on 64 bit operating systems.

- Photo ID credentialing printers and image capture devices may not have compatible drivers for Windows Vista or 64 bit operating systems.

SQL Server 2008

You must update SQL Server 2008 with Microsoft SQL Server 2005 Backward Compatibility Components before installing an Enterprise or Global system, if it was not installed during SQL Server 2008 setup. The Microsoft SQL Server 2005 Backward Compatibility Components can be found on the FCWnx Software Installation DVD in SQLExpress/SQLServer2005_BC.msi.

Micro Controllers only (PXNPlus and DirecDoor)

On the Reader tab of the Reader form, the reader's Physical Type must be set to "Normal" (not "Credential and PIN Required" or "Credential or Keypad Entry") to use the Reader Type Event Schedules to switch between physical types.

Installing FCWnx 7.5.1

Note: A new license is required for all FCWnx 7.5.1 installations, including new installations and upgrades.

New Installation

To install a new installation of FCWnx 7.5.1:

1. From the FCWnx 7.5.1 Installation DVD main page, click "Install FCWnx 7.5.1."

2. Follow the installation instructions specified in Facility Commander Wnx 7.5 Installation Manual (Professional, Enterprise, or Global Edition) included on the Facility Commander Wnx Installation DVD, as well as the Documentation CD.

Upgrade

From FCWnx 7.0 SP3 (and earlier) to FCWnx 7.5.1

Note: If you are upgrading from FCWnx 7.0 SP3 or earlier, the upgrade procedures to FCWnx 7.5.1 are the same as upgrading to FCWnx 7.5. Refer to the *Facility Commander 7.5 Upgrade Manual*, located on the Documentation CD included with your media kit, for detailed upgrade procedures.

To upgrade from FCWnx 7.0 SP3 and earlier to FCWnx 7.5.1:

1. From the FCWnx 7.5.1 Installation DVD main page, click "Install FCWnx 7.5.1."

2. Follow the upgrade instructions specified in the *Facility Commander 7.5 Upgrade Manual*, located on the Documentation CD included with your media kit.

From FCWnx 7.5 to FCWnx 7.5.1

The "Upgrade FCWnx v7.5 to FCWnx v7.5.1" utility should be applied to any FCWnx7.5 system, including the FCWnx Server and all FCWnx Client Workstations.

Note: Only local or domain account users that are logged in with Administrator group permissions can only apply this upgrade.

To upgrade from FCWnx 7.5 to FCWnx 7.5.1:

1. From the FCWnx 7.5.1 Installation DVD main page, click "Upgrade FCWnx 7.5 to FCWnx 7.51."

2. The End-User Software License Agreement page opens. Read the licensing agreement, and then click Accept.

3. The FCWnx Upgrade Utility page opens. Click Continue.

   The utility will check if there are executables running, which may interfere with the installation. If such programs are running the following dialog will appear:
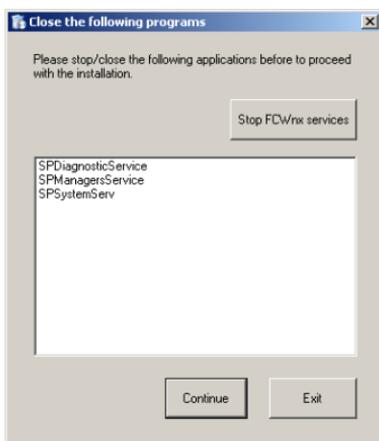
4. If FCWnx services are running click Stop FCWnx services.

   The application will attempt to stop some of the FCWnx related executables and perform the check again. If there are still applications in the list, they must be closed manually. After all services are stopped, click Continue.

5. If you are upgrading an FCWnx Database Server, the Database Logon dialog opens. Enter your SQL Server logon user name and password, and then click Ok.

    The upgrade installation begins.

6. After a successful upgrade installation, the License Setup dialog opens.

    Note: If the installation is not successful, close the dialog box, and then go into the FCWnx/Logs directory. Copy the `Upgrade.log` file, and then send it to Technical Support for assistance.

7. Complete the License and Set Security Settings in accordance with the Facility Commander Wnx 7.5 Installation Manual (Professional, Enterprise, or Global Edition) included on the Facility Commander Wnx Installation DVD, as well as the Documentation CD.

FCWnx 7.5.1 New Feature Details

License screen

The License screen includes a new SQL Password For FCWnx field. This field allows the user to specify 12 characters for the SQL password that the application will use to access the FCWnx database. By default it is set to the first 12 characters of the Machine Seed Key, however the user may change that password.
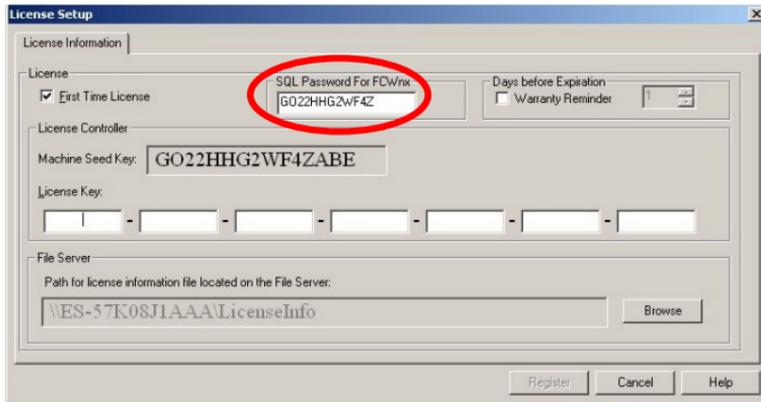
Alarm Monitor Screen

The Alarm Monitor has a new header with selectable columns. When the user clicks a column heading, that column will sort the alarms. There is an arrow on the side of the column that indicates if the sort is ascending or descending. If the column is clicked again, the sorting direction is toggled.

Set and reset the preset position

Once you have defined a preset in the FCWnx application, you can reset the defined position for the preset from the Video Console Navigation Tree.

To reset the preset:

1. Select the desired PTZ camera from the Navigation Tree in the Video Console.

2. Move the view to the desired location.

3. Right click on the defined preset that you want to associate with the view, and then select Set Preset Position.

   A dialog opens to confirm your action. Click Ok.

Video Equipment form

The DVR form in FCWnx 7.5 was renamed the Video Equipment form in FCWnx 7.5.1. This form was redesigned to accommodate the new features of the FCWnx 7.5.1 video subsystem. This form is still located under Security Devices.

Time Zone tab: The Set the time zone field default value is set to None. This means that the device is using the host computer's time zone. It is recommended that you define the appropriate time zone instead of using the default value.

Evidence CD

The Create Evidence CD can now be opened from the Video Console.

To create an evidence CD, follow these steps:

1. Place a blank CD or DVD into your disc drive.

2. From the File menu in the Video Console, select Create Evidence CD. The Create Evidence CD dialog displays.

3. Click the Add button to select one or more files from the list, and then click Open.

4. The selected files appear in the Create Evidence CD dialog.

5. The files can be written to windows default CD burning directory, or a directory of your choice:

   a. Select the Windows CD Burning radio button and click Create to burn an evidence CD using Windows CD Burning directory.

   b. Select the Directory radio button, and then the "..." button to choose a directory to write the evidence file, and then click the Create button. A Windows Explorer view of the files will appear. You can drag the contents of this directory to the CD burning software of your choice to burn the evidence file to CD.

Once the CD has been created you can use it to play the videos on any other Windows PC. If the player does not start automatically, you can start it manually by double clicking Player.exe on the CD. Note that the player program can take a long time to load when running it directly from the CD. If you wish, you may copy the contents of the CD to a hard drive and run it from there for faster response time.

Remote storage on Digital Video Recorder form

GE Legend IP Dome or GE SynNet 1

When you select the GE Legend IP Dome or GE SynNet 1 devices on the Digital Video Recorder form Definition tab, the Primary Storage field is enabled and populated with all Symsuite devices. Select the appropriate device from the drop-down list.

- Primary Storage is a required field that must be configured.
- The Primary Storage field was called DVR Hostname in FCWnx 7.5.

VisioWave devices

When you select any VisioWave device on the Digital Video Recorder form Definition tab, the Primary Storage and Secondary Storage fields are enabled.

- Primary Storage is not a required field for any device except the GE Discovery 105E.
- Secondary Storage is not a required field.

TruVision TVR 10 and DVSRxU Video Devices

Alarm notifications

By default, these devices do not automatically notify the FCWnx video subsystem when an alarm occurs. The alarms and notifications must be setup and configured on the device. Please refer to the device documentation on how to enable notification for the alarms/events in the table below. The table also shows the mapping of the device alarm/event types to the FCWnx alarm types.

DVSRxU and TruVision TVR 10 Alarms/Events	FCWnx Alarms
Sensor Alarm	Camera General Alarm
HDD Full	Video Device Disk Full
Video Loss	Camera Video Loss
Motion Detection	Camera General Alarm
HDD Not Formatted	Video Device Health Trouble
Failed To Read HDD	Video Device Health Fail
Mask Alarm	Camera Health Trouble

Video device search

- These devices only support searching for alarms and motion detection.

- Event search (events generated by Video Triggers from FCWnx) and Text search are not available.

- Motion search retrieves motion detection events that have been configured and detected on the device itself. The motion search for these devices is not for post-recording motion search. Therefore, selecting a region of interest is not used for motion searches for these devices.

Technical Support

Contacting technical support

You can reach technical support by phone 8 a.m. to 7 pm. EST, Monday through Friday.

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