



# READ ME FIRST

iControl Edge enables television service providers to cost-effectively monitor hundreds of television signals spread across multiple remote locations, using remotely controlled EdgeVision devices, set-top-boxes, DVRs, and receiver/decoders. It consists of a suite of existing Miranda products and third-party devices that have been specifically packaged into an *off-the-shelf* monitoring solution.

At each remote head-end, set-top box signals are fed into Densité control probes, an Allegro-1-Analog encoder/server, or an EdgeVision device (which can replace both a Densité control probe and an Allégro-1. The signals are then streamed back to the Network Operations Center's iControl Edge monitoring system.

Each device (Application Server, EdgeVision device, Allégro frame, Densité frame and cards, Global Caché GC-100 network adapter, etc.) ships with its standard documentation.

**IMPORTANT:** Some of the constituent products may have features that are **NOT** supported in the context of iControl Edge.

Your primary references for deploying and operating your system are the *iControl Edge Installation and Setup Guide (M867-0602-104)* and the *iControl Edge Operator's Overview (M867-0700-104)*. If you cannot find these documents after following the pre-installation instructions, please contact [support@miranda.com](mailto:support@miranda.com).

## What's Changed?

The following is a list of features, enhancements, bugs and known issues — listed by their reference numbers — that are new or changed in this release:

New and changed in iControl Edge version 1.51 (listed by reference #)

New and enhanced	Fixed bugs	Known issues
	<a href="#">ICE-207</a> , on page 13	

## Pre-Installation Instructions

Your primary reference for deploying your system is the *iControl Edge Installation and Setup Guide* that you will find directly on the Application Server. To access this document, you need to start the Application Server and connect it to your network.

First make sure the following items have been shipped with your Application Server:

- Application Server
- Hardware documentation for the Application Server
- Dell installation DVD
- Rack mounting kit (rails, screws and washers)
- Power cord

If applicable, make sure the following items have been shipped with your EdgeVision units:

- EdgeVision unit
- Printed user documentation (Quick Start Guide)
- Audio/Video connector cables
- Ground lug
- Power cord
- Infrared cables
- Four rubber pads (when used as a table-top device)
- AC secure wire clips

If applicable, make sure the following items have been shipped with your GC-100 network adapters:

- Global Caché GC-100 network adapters (one for each set of six set-top boxes to be controlled)
- One AC power supply unit and AC cord
- Six IR emitter cables
- Six stick-on shields

If applicable, make sure the following items have been shipped with your Densité frames:

- Densité housing frame with one controller card
- The Densité-series devices you ordered:

### Possible Densité card combinations

--- Video probes ---	--- Audio probes ---
VCP-1021 Composite Video Control Probe	ACP-1721 Digital Audio Control Probe

**Possible Densité card combinations (Continued)**

--- Or any of the following ---	--- With any of the following ---
<ul style="list-style-type: none"> <li>• DEC-1002 10-Bit Composite to SDI Decoder</li> <li>• DEC-1003 10-Bit Composite to SDI Decoder</li> <li>• DEC-1021 12-Bit Composite to SDI Decoder</li> <li>• DEC-1023 12-Bit Composite to SDI Decoder</li> </ul>	<ul style="list-style-type: none"> <li>• UAP-1781 Eight-Channel Universal Audio Processor</li> <li>• UAP-1783 Eight-Channel Universal Audio Processor</li> <li>• AAP-1741 Four-Channel Analog Audio Processor</li> </ul>
--- Or the following probe ---	--- With the following converter ---
HCP-1801HD/SD SDI Control Probe	ADC-800 CAM HDV Camera HD/SD A-to-D Converter

- One ADC-800 CAM HDV camera HD/SD A-to-D converter, for each HCP-1801 module you ordered
- Blank rear panels (for empty slots)
- One AC power supply unit and AC cord
- A second power supply and AC cord (optional)

If applicable, make sure the following items have been shipped with your Allégro systems:

- Allégro unit
- Rack mounting kit (rails, screws and washers)
- AC power cord

## Task 1: Configuring a Client PC or Laptop's Network Settings

You will use a client PC to configure the new Application Server. The client PC must have network settings that will allow it to communicate with an iControl Application Server in its default state.

Perform one of the following procedures depending upon your client PC's operating system:

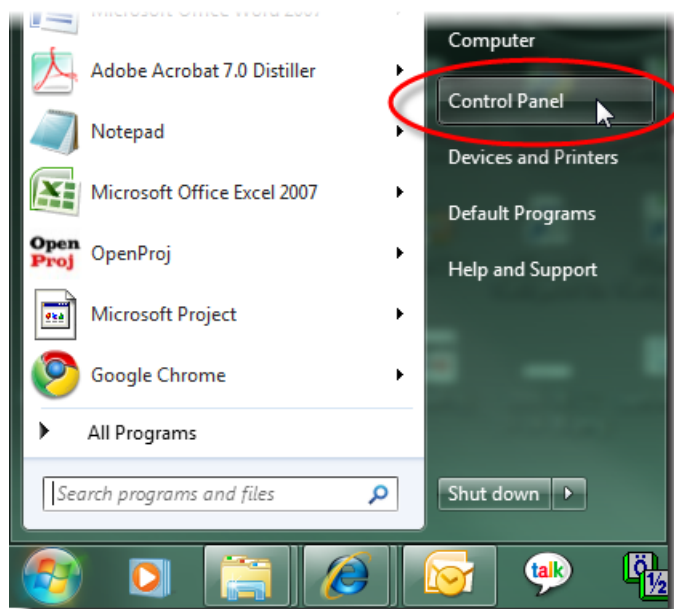
- ["Configuring TCP/IP Settings of a Client PC Running Windows 7", on page 3](#)
- ["Configuring TCP/IP Settings of a Client PC Running Windows XP Professional", on page 7](#)

### Configuring TCP/IP Settings of a Client PC Running Windows 7

#### To configure the TCP/IP settings

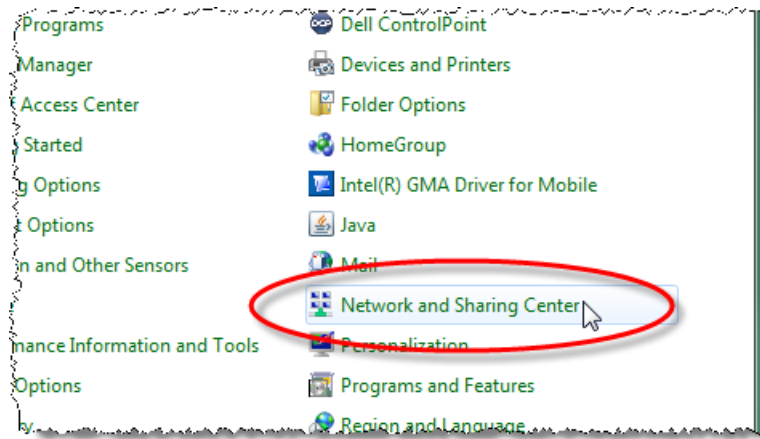
1. From the Windows 7 **Start** menu, click **Control Panel**.

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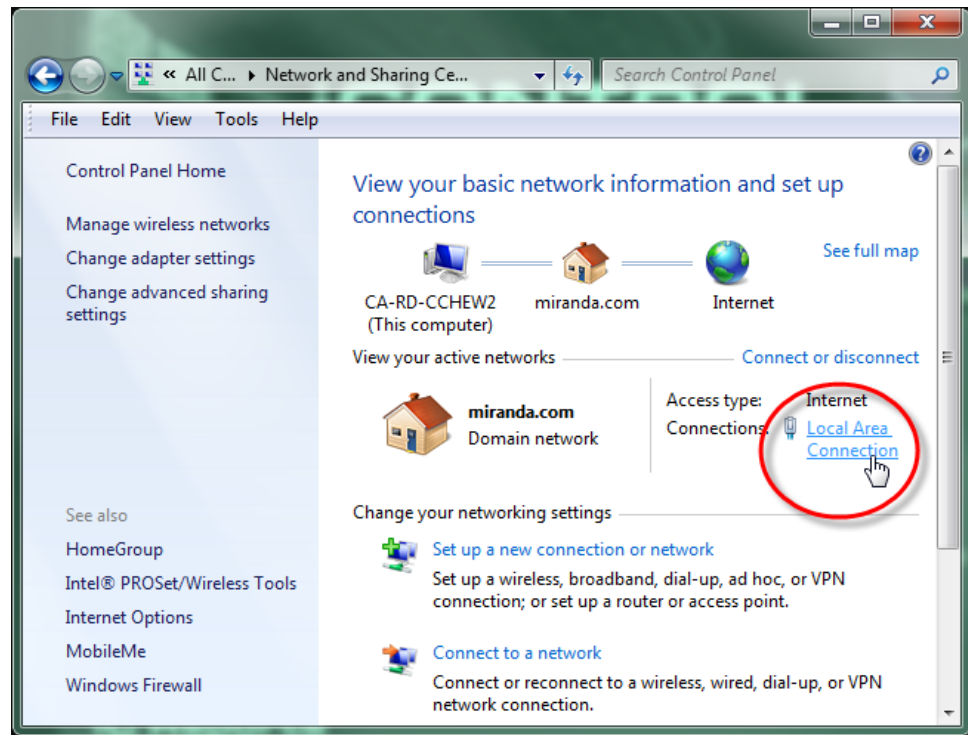
The Control Panel appears.

2. Click **Network and Sharing Center**.

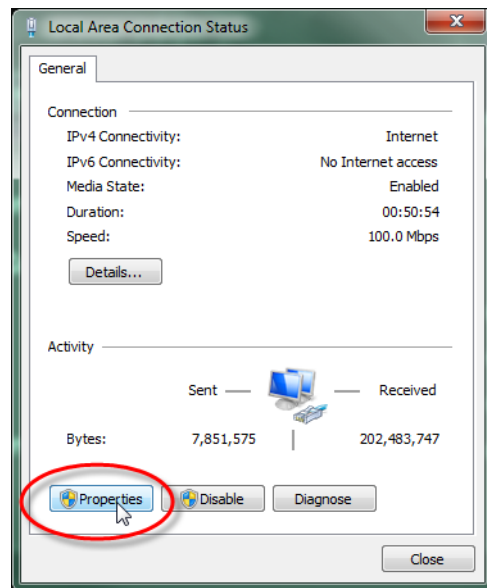


The **Network and Sharing Center** appears.

3. In the **Access type** area, click the link that corresponds to your LAN Internet connection (**Local Area Connection** in the example shown).



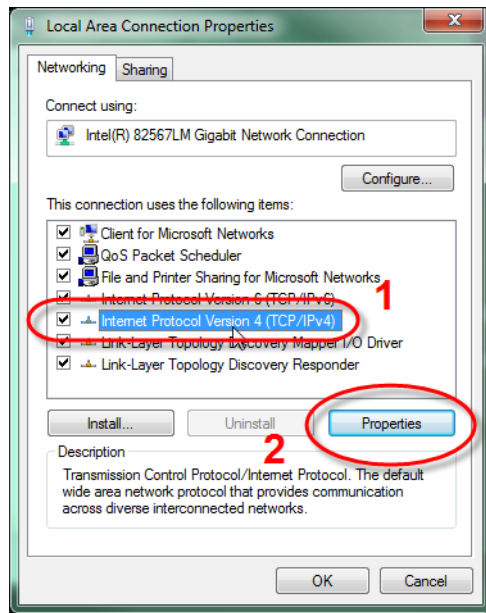
The **Local Area Connection Status** window appears.



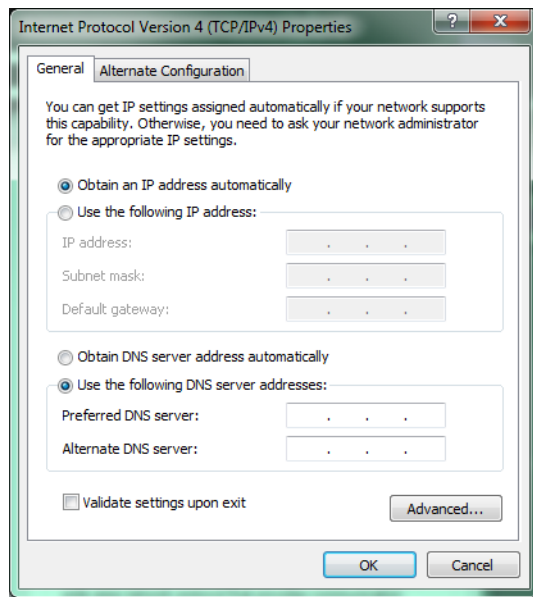
4. Click **Properties**.

The **Local Area Connection Properties** window appears.

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5. Select **Internet Protocol Version 4 (TCP/IPv4)**, and then click **Properties**.  
The **Internet Protocol Version 4 (TCP/IPv4) Properties** window appears.

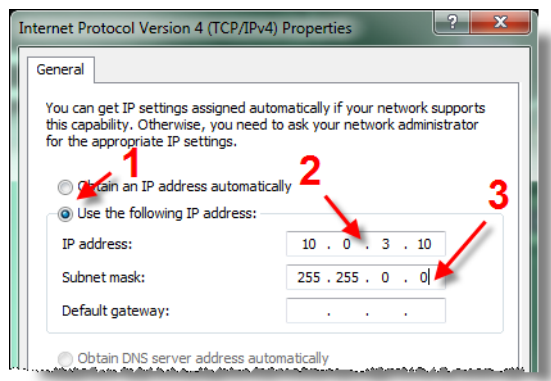


6. Take note of the PC's current settings.
7. Click **Use the following IP address**.
8. The default IP address of each new iControl Application Server is 10. 0. 3. 6. On the client PC, type an address in the same range (e.g. 10. 0. 3. 10) in the **IP address** field.
9. The default subnet mask of each new iControl Application Server is 255. 255. 0. 0. On the client PC, type 255. 255. 0. 0 in the **Subnet mask** field.

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**Note:** The default IP address and subnet mask settings for the Application Server are usually shown on a sticker on the top cover of its chassis.

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10. Click **OK** to apply these settings.
11. In the **Local Area Connection Properties** window, click **OK**.
12. Close the **Network and Sharing Center** control panel.

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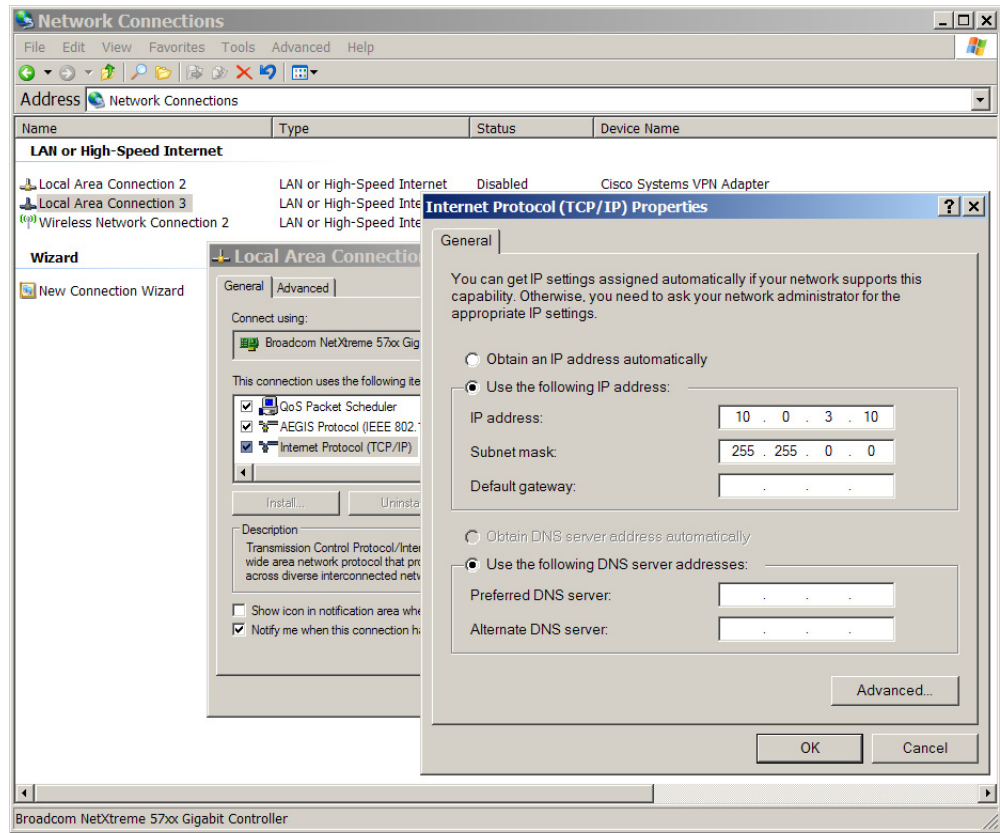
**Note:** Remember to return the PC to its original network settings once you have finished configuring the iControl Application Server.

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## Configuring TCP/IP Settings of a Client PC Running Windows XP Professional

### To configure the TCP/IP settings

1. Open Windows Control Panel.
2. In Control Panel, click **Network Connections**.
3. Select the currently active Local Area Connection, and then right-click and click **Properties**.
4. In the **Local Area Connection Properties** window, select **Internet Protocol (TCP/IP)**, and then click **Properties**.
5. In the **Internet Protocol (TCP/IP) Properties** window, click **Use the following IP address**.



*Configuring TCP/IP settings on a PC running Windows XP.*

6. Take note of the PC's current settings.
7. The default IP address of each new iControl Application Server is 10. 0. 3. 6. On the client PC, type an address in the same range (e.g. 10. 0. 3. 10) in the **IP address** field.
8. The default subnet mask of each new iControl Application Server is 255. 255. 0. 0. On the client PC, type 255. 255. 0. 0 in the **Subnet mask** field.

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**Note:** The default IP address and subnet mask settings for the Application Server are usually shown on a sticker on the top cover of its chassis.

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9. Click **OK** to apply these settings.
10. In the **Local Area Connection Properties** window, click **OK**.
11. Close the **Network Connections** control panel.

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**Note:** Remember to return the PC to its original network settings once you have finished configuring the iControl Application Server.

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## Task 2: Physically Installing the Application Server

Miranda's Application Server is the hardware at the heart of the iControl Edge system, providing control, monitoring, logging and interface services. The Application Server is a



compact 1 RU server that interfaces to other iControl devices over TCP/IP. A user can connect to the Application Server via TCP/IP from any desktop or portable computer.

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**Notes**

- Older Application Servers may require hardware/firmware upgrades in order to run iControl Edge version 1.51.
  - If your Application Server is a Dell PowerEdge model, install the faceplate after the server is placed in a rack. If your Application Server is an older Supermicro model, install the faceplate before the server is placed in a rack.
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**To install the iControl Application Server**

1. Place the iControl Application Server in a standard 19in rack, using the rails, screws and washers provided. Make sure that the unit has adequate ventilation.
2. Connect power cords, and then turn the server on. The power switch is located on the front panel.
3. **[OPTIONAL]** Install the Miranda faceplate onto the front of the Application Server by sliding it onto the guide blocks on the side handles, then pushing it in until it clicks into place.

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**Notes**

- An unexpected power disruption, such as might occur during a power failure, can damage the file system on an iControl Application Server. It is strongly recommended that all Application Servers be connected to a standby power source, such as a UPS (Uninterruptible Power Supply), as a preventive measure.
  - Hardware documentation for the PowerEdge R310 is available from the Dell Web site:  
<http://support.dell.com/support/edocs/systems/peR310/>
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### Task 3: Locating the iControl Edge Installation and Setup Guide on the Server

To further configure the Application Server and make it available on your local network, you may need to:

- connect to the Application Server from a client PC or laptop
- access the iControl Edge Documentation page and download the complete Installation and Setup Guide

**To connect to the Application Server and access the iControl Edge Documentation page**

1. If you have not done so already, set the IP address of your client PC or laptop to 10. 0. 3. 10 with subnet 255. 255. 0. 0 (see "[Configuring a Client PC or Laptop's Network Settings](#)", on [page 3](#)).

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**Note:** Record your PC's existing settings so you can return to them later.

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2. Open a browser window on the client PC or laptop.
3. In the address bar, type 10. 0. 3. 6 (this is the default IP address of the Application Server).

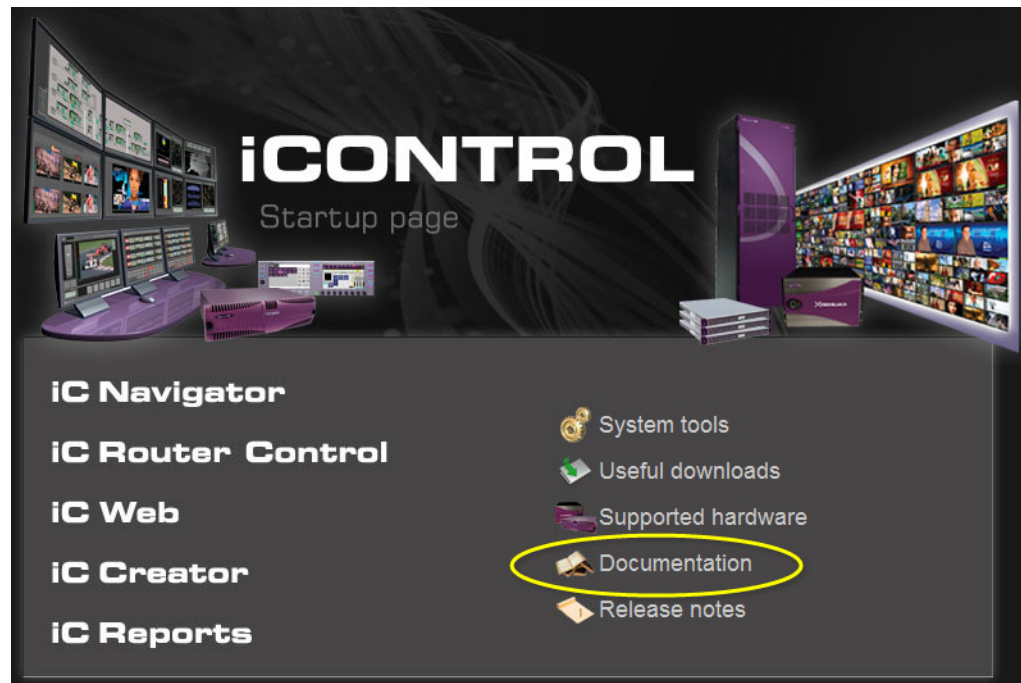
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**Note:** The default IP address and subnet mask for the Application Server are listed on a sticker on the top cover of the chassis.

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The iControl Startup Page appears:

4. Click **Documentation**.



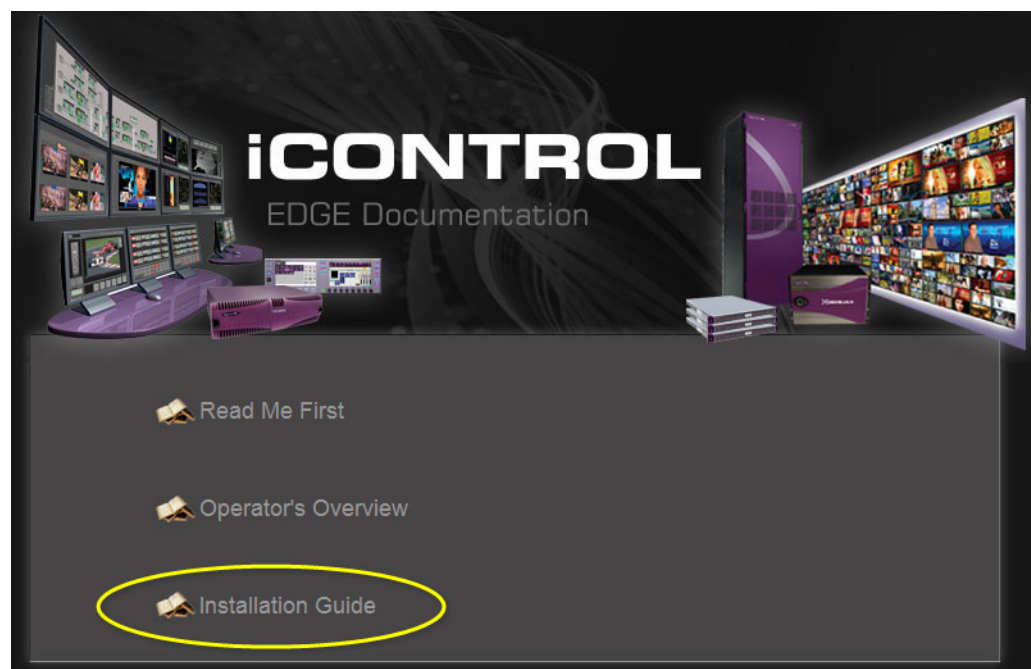
The iControl User Documentation page appears.

5. Click **iControl Edge Documentation**.



The iControl Edge User Documentation page appears.

6. Click **Installation Guide** to download the *iControl Edge Installation and Setup Guide* to your client PC or laptop.



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**Note:** Depending on your browser's settings, the \*.pdf file may open inside (or outside) a browser window, or your browser download manager may prompt you for a location where you may save the file.

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7. Make sure to save a copy of the *iControl Edge Installation and Setup Guide* to your hard drive for easier access until you have completed the installation and configuration of your iControl Edge system.

You can now refer to the *iControl Edge Installation and Setup Guide* to further proceed with the installation and configuration of the various devices that will be part of your system.

## New Features and Enhancements in iControl Edge

### New in Version 1.50

- [Ref. #26638] EdgeVision iControl Edge now supports interoperability with the Miranda EdgeVision device. An EdgeVision device, in the iControl Edge context, replaces the traditional functionalities of the following:
  - the GC-100 Network Adapter (for IR control)
  - the Alto and Allégro (for high-quality streaming)
  - Densité cards (for probing and thumbnails)

#### See also

For more information about:

- Installing an EdgeVision device, see the "Installing & Configuring EdgeVision Devices" section of the *iControl Edge Installation and Setup Guide*.
- EdgeVision changes to the configuration spreadsheet, see the "Modifying the iControl Edge Configuration Spreadsheets" section of the *iControl Edge Installation and Setup Guide*.
- Controlling EdgeVision from within iControl Edge, see the "Controlling an EdgeVision Device with a Soft Remote" section in the *iControl Edge Operator's Overview*
- Configuring EdgeVision within iControl Edge, see the "Configuring EdgeVision Devices" section in the *iControl Edge Operator's Overview*.

- [Ref. #13451] **Support for APC7900 PDU:** iControl Edge version 1.50 now supports the APC7900 power module. Each outlet of this network-reachable power module can be remotely power cycled through an iControl Edge Web page.

#### See also

For more information, see the "Power Cycling (through TCP/IP) a Set-Top Box" section in the *iControl Edge Version 1.50 Installation and Setup Guide*.

- [Ref. #23844 / 33148] **Support for Multi-Site Spreadsheet Inheritance:** iControl Edge now supports spreadsheet propagation from a master spreadsheet to multiple logical locations, effectively allowing a single Application Server to monitor multiple hubs.

**See also**

For more information, see the “[Special Case] Spreadsheet Inheritance” section in the “Installation and Setup” chapter of the *iControl Edge Version 1.50 Installation and Setup Guide*.

## New in Version 1.20

- [Ref. #F201] Support for DVR devices and the ability to record a video stream for a predetermined period of time when an error is detected.
- [Ref. #21685/21686] Support for various screen resolutions, support for single-screen monitoring client workstation, enhanced support for systems with a specific number of probes (4, 8 or 16 players), and support for systems that do not include an Allégo streaming encoder/server.
- [Ref. #21770] The name of the currently monitored location now appears above the **Detailed Signal Analysis** area.
- [Ref. #19350] **Remote Control**: A soft remote reflecting the appearance and features of the physical remote used to control a specific set-top model appears in the **Probe Configuration** window. When you click a player’s **CONFIGURATION** button in the **Channel Monitoring** area, the corresponding cards’ control panel appears.
- [Ref. #19381] Audible alarms are managed through the **Mute/Unmute sound** and **Acknowledge** buttons at the bottom of the **Multi-Channel Monitoring** area of the Web page.
- [Ref. #22764] iControl Edge documentation is available by clicking the **Application Selector’s Documentation** button.
- [Ref. #23900] Custom buttons (to load a specific Web page or a custom iC Web page) can be added to the **Application Selector**. The current version of iC Edge supports up to two custom buttons, configured in the *Devices* spreadsheet’s *Config* worksheet.

## Fixed Bugs in iControl Edge

### Fixed in Version 1.51

- ★ [Ref. #ICE-207] If your setup includes an EdgeVision device, after you restart the GSM or your Application Server, you may not be able to find the EdgeVision service.

### Fixed in Version 1.50

- [Ref. #34290] Cycler text alarms may not be updated properly in virtual devices in iControl Edge, even if functioning properly according to the GSM service.
- [Ref. #27051] When there are more than 25 selector groups configured in the spreadsheet, the Web page may take longer than usual to load.

## Fixed in Version 1.20

- [Ref. #21725] After updating the iC Edge package, custom logos will have to be manually uploaded again to the `/var/tomcat4/webapps/icw/sites/EDGE/Images/Logos` directory on the Application Server.

## Known Issues

The star (★) symbol indicates a new issue found in iControl Edge version 1.51.

- [Ref. #24682] **Multi-location systems:** All locations within a distributed iC Edge system must have the same version of the configuration spreadsheets.

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**Note:** The version number specified in the Locations spreadsheet at the main location determines the parsing of the *Devices* spreadsheets for all locations that are part of the distributed system.

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- [Ref. #22051/21784] Glitches in an analog video signal may sometimes cause the associated *Densité* probe to report false un-freeze events. This results in invalid rows being added to the incident log.

- [Ref. #13847] When refreshing the iC Edge Web page after modifying a configuration spreadsheet on the server, it may happen that part of the Web page will be missing.

*Workaround:* Right-click the top part of the Web page, and then click **Refresh** on the menu.

- [Ref. #24128] **Blinking alarms:** In systems where the *blinkWhenUnacknowledged* option is enabled, acknowledging a blinking alarm does not always stop all associated blinking elements on the iC Web page. For instance, clicking **Acknowledge** may stop blinking in the **Channel Selector** area but not in the **Cycler** view; right-clicking a blinking alarm indicator in the **Cycler** view, and then clicking **Acknowledge** on the menu may stop blinking in the **Cycler** view but not in the **Channel Selector** area.

*Workaround:* Manually acknowledge any remaining blinking element—right-click the element you wish to stop blinking (or a parent element), and then click **Acknowledge** on the menu.

- [Ref. #24598] After restarting the GSM, new tab buttons may appear at the bottom of the **Channel Selector** area.

*Workaround:*

1. Once the script has finished loading, refresh the page.
2. If an iControl Edge Web page is already open and you open another page with a different resolution from the same iC Web client, some elements of the new page (e.g. buttons) may be incorrectly positioned.
3. Close iC Web and open it again to before opening the desired page.