iControl Solo

Standalone PC-based control

Release Notes

Version 6.00

M786-1800-342

11 March 2014

Miranda

A BELDEN BRAND

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Warranty Policies

Warranty information is available in the Support section of the Miranda Web site (www.miranda.com).

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1 Requirements

This section details the requirements that must be met prior to installing iControl Solo on your PC or laptop. It also provides upgrading and configuration guidelines.

About iControl Solo

iControl Solo is a PC-based control application that offers affordable control directly from your desktop. It allows easy list-based control and configuration of up to 100 Densité series and/or Imaging series modules, and does not require a Miranda Application Server.

More advanced control requirements involving simultaneous, multi-device monitoring and error logging, and a customized, highly-graphical user interface can be met with the iControl Solo Web and iControl Solo PM applications.

System Requirements

IMPORTANT: iControl Solo supports only Windows 7 platforms

Starting in version 6.00, PCs running iControl Solo *must have Windows 7 installed*. Windows XP is not supported.

The PC or laptop must meet the following system requirements to be compatible with this release:

Recommended	• 2 GB of RAM • Intel Core i3 or better • 100 MB of free hard drive space • 1024 × 768 display resolution or better
Required	• Windows 7 • Ethernet NIC (for Densité[1])

1. CPU-ETH or CPU-ETH2 controller.

Installing iControl Solo

REQUIREMENTS

Make sure you meet the following conditions before beginning this procedure:

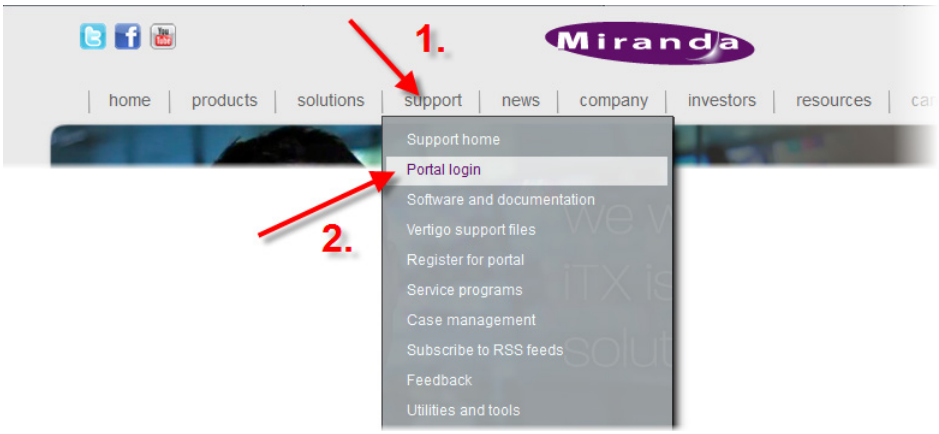
- The client PC on which you would like to install iControl Solo is connected to the Internet. Be advised that the downloadable file is large. Miranda recommends a high-speed connection.
- Your system meets the outlined requirements (see see page 1).

To install iControl Solo on a client PC

1. On the client PC, open a Web browser window and type `www.miranda.com` in the address bar.

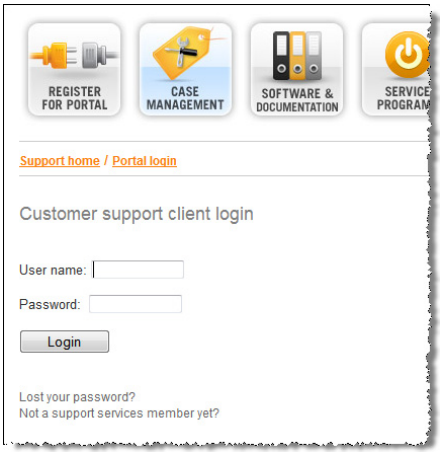
   The Miranda home page appears.

2. Mouse over **Support** in the navigation bar, at the top of the page, and then click **Portal login**.

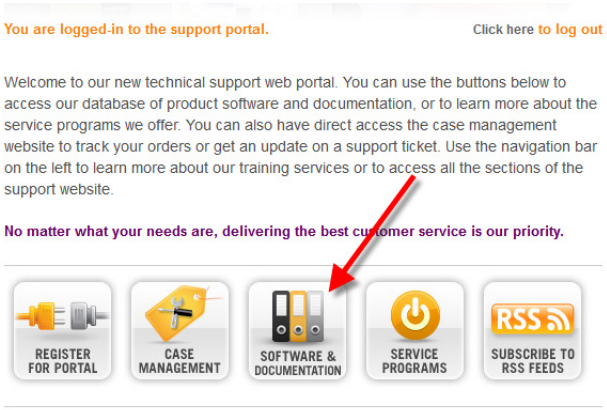


   The Customer support login page appears.

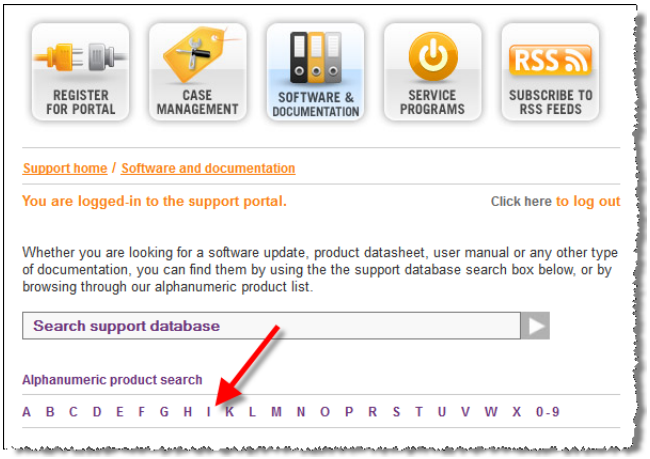
3. Log on using your Miranda Support Services account's user name and password.



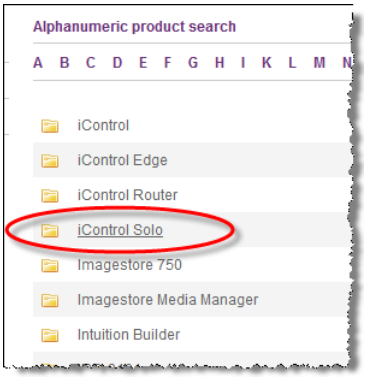
4. On the Support Portal page, click the **SOFTWARE & DOCUMENTATION** icon.



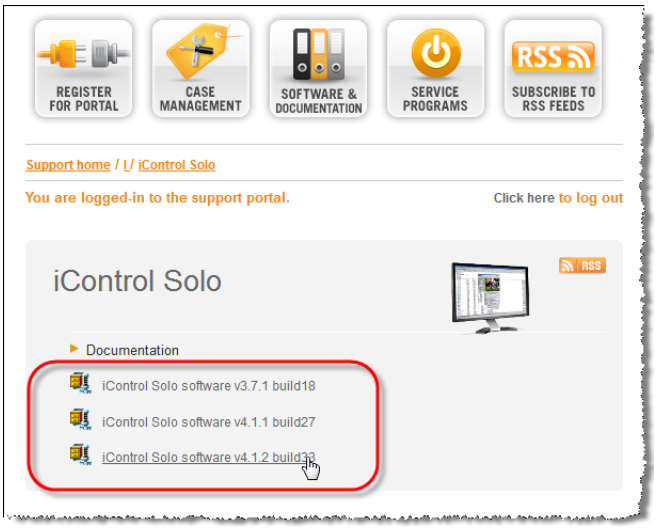
5. On the Software and documentation page, click **I** (indicated in the graphic, below).



6. Click **iControl Solo**.

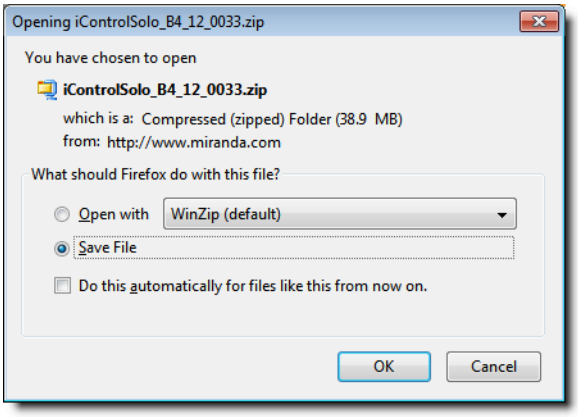


7. On the iControl Solo page, click the link corresponding to the software build you would like to download.

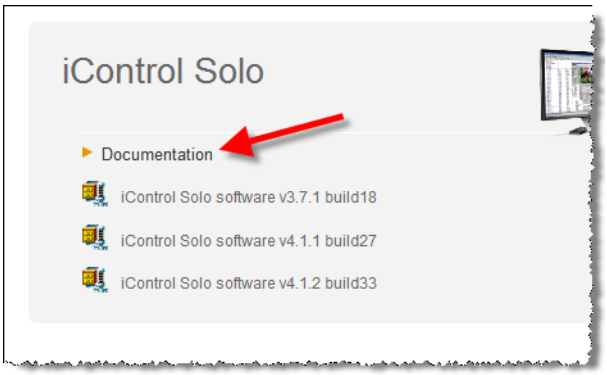


8. Follow your Web browser's file download instructions, as required.

> **Note:** The graphic, below, is the **Download** window from Mozilla Firefox version 8.0.



9. To download documentation, click **Documentation** on the iControl Solo page.



10. Click the link corresponding to the document you would like to download.

Configuration Guidelines

Miranda Imaging Frames (Symphonie or Quartet 2)

- iControl Solo supports a maximum of 100 Miranda interface cards (Densité and Imaging combined).
- Quartet 1 and iControl Solo frames are not supported.
- A maximum of four frames can be connected to each RS-422 communication port.
- When critical on-air equipment is controlled (e.g. incoming feeds) do not connect more than two frames per RS-422 communication port.
- When using Symphonie frames that are fully loaded with XVP-801/811 and/or DAP-781 cards, do not connect more than one frame per RS-422 communication port.

Miranda Densité Frames

- iControl Solo supports a maximum of 100 Miranda interface cards (Densité and Imaging combined).
- Thumbnail, audio level, closed captioning, and other similar probing features are not supported in iControl Solo.
- Each frame must be registered to a single iControl Solo application. Ensure that the frame is not registered to an iControl Solo Application Server RCP-100 or RCP-200 device. Having the same frame report to multiple Densité Managers may result in repeated loss of connection and system instability. The Densité Controller only supports one client connection at a time.

2 Release Notes

iControl Solo version 6.00 is a major release introducing two new Densité services. The Release Notes document lists new features, bug fixes, known issues and limitations as well as peripheral cards and devices supported in the current release.

What's Changed?

The following is a list of new features, enhancements, newly fixed bugs, and newly discovered known issues—listed by their reference numbers—as well as newly supported cards or card firmware in this release:

New and changed in iControl Solo version 6.00

New and enhanced	Fixed bugs	Known issues	Cards and devices
ICONTROL-6245 , on page 7		ICONTROL-18127 , on page 14	

New Features and Enhancements

New in Version 6.00

Densité Upgrade Manager

★ [Ref. #ICONTROL-6245] As of version 6.00 of iControl Solo, remotely upgrading firmware and software on your Densité cards involves using **Densité Upgrade Manager**, which is a new component of iControl Solo. **Densité Upgrade Manager** replaces the functionality of **Miranda Interface Updater**, which is now deprecated, and adds important new functionality and ease of use. **Densité Upgrade Manager** introduces the notion of upgrade packages, which are Densité card software and firmware bundled together. Packages, themselves, have version numbers.

There are several advantages when using **Densité Upgrade Manager**, including—but not limited to—the following:

- ***No Application Server upgrade***: Ability to support new Densité cards without having to upgrade the entire iControl Solo software
- ***Batch mode***: Ability to upgrade any Densité cards subset, including all cards in the system at once
- ***No Densité frame downtime***: While a Densité card is upgraded, you will not lose connectivity to the Densité frame nor the other cards in the frame

- ***Test upgrade***: Ability to upgrade a specific Densité card, test it and, only after, deploy the new firmware on the entire system
- ***Centralized interface***: Ability to see all card firmware versions running on each card of the entire system from a centralized interface

New in Version 4.43

Densité Services

- [Ref. #ICONTROL-12081] **IRG-3401**: iControl version 4.43 introduces support for the IRG-3401 (version 100) Densité card. The IRG-3401 is a very dense versatile ASI-to-IP/IP-to-ASI gateway, perfect for signal aggregation with high channel count. Any of its 12 DVB-ASI ports are configurable as inputs or outputs. The IRG-3401 card simultaneously can accommodate a customizable number of ASI-to-IP and IP-to-ASI gateways fitting any application requirements.
- [Ref. #ICONTROL-16518] **SME-1901**: iControl version 4.43 introduces support for the SME-1901 (version 100) Densité card. The SME-1901 Streaming Media Encoder is an SDI (SD, HD, 3Gbps) 1×4 DA with H.264 streaming encoding. It also offers a wealth of advanced probing options like loudness monitoring, metadata status, and content monitoring such as video loss, black, freeze or audio loss.

New in Version 4.40

Densité Services

- [Ref. #ICONTROL-12646/16154] **FIO-901**: iControl Solo version 4.40 introduces the FIO-901 controller card for a LUMO fiber converter frame.
- [Ref. #ICONTROL-16057/16154] **XVP-3901**: Together with firmware version 3.2.0 of this Densité card, iControl Solo version 4.40 enhances its XVP-3901 offering by supporting loudness logging.

New in Version 4.30

Logging and Analyzing Loudness Data

- Certain devices like the Kaleido-Solo are capable of monitoring the loudness of audio streams. The data generated from monitoring may be streamed to your client PC where iControl Solo's *Loudness Logger* can record and archive this stream of loudness data.

  After (or even during) the logging of loudness data, iControl Solo's *Loudness Analyzer* can plot a log file's loudness, making visible the data in units of LUFS (EBU) or LKFS (A85) over the time period covered by the file. Loudness Analyzer allows you to zoom into the data plot as well, effectively taking a subset of the time frame analyzed while increasing data granularity in the chart.

See also

For more information, see the "Loudness Logging and Analyzing" section in the "Using iControl Solo" chapter of the *iControl Solo User Guide* (**M786-1800-334**).

New in Version 4.14

Densité Services

- [Ref. #35393] The control panels of the following Densité cards were enhanced in iControl Solo version 4.14 to accommodate support for the DSP-710 Dolby decoder module:
  - ADX
  - EAP
  - DAP
  - AMX
  - XVP

New in Version 4.12

Densité Services

- [Ref. #32704] iControl Solo Version 4.12 now supports the Axino Multi-Program IP Transport Stream Loudness Processor. The Axino probes and analyzes embedded audio signals within a multi-channel signal and enables automatic loudness control.

IMPORTANT: This feature in BETA mode in iControl Solo version 4.12

iControl Solo version 4.12 only supports the Axino Multi-Program IP Transport Stream Loudness Processor in BETA mode.

See also

For more information, see the *Axino Multi-Program IP Transport Stream Loudness Processor Guide to Installation and Operation* (**M948-9900-100**).

New in Version 4.11

Densité Services

- [Ref. #32344] **HDA-193N-D-3SRP-F**: iControl Solo introduces the new REAR module HDA-193N-D-3SRP-F in support of the HDA-1931 and HDA-1911 Densité cards.
- [Ref. #29942] **HMP-1801**: iControl Solo now allows you to select a serial protocol (either **Oxtel** or **VDCP**) on the control panel of firmware version 5.1.0 or later of the HMP-1801 Densité card.

IMPORTANT: If your HMP-1801 card does not have firmware version 5.1.0 or later, the **Protocol** tab will not be available.

See also

For more information, see the *HMP-1801 High Definition Media Player Guide to Installation and Operation* (**M864-9900-108**).

Miranda Interface Updater

- [Ref. 31326] iControl Solo now includes the Miranda Interface Updater as an integrated component, available in the **Tools** menu.

New in Version 4.10

Software Installation

- [Ref. #31192] Starting with version 4.10, to launch iControl Solo, you need only open the executable file available from Miranda's technical support portal:

  `http://www.miranda.com/support/`

  On the Miranda technical support Web site, type `iControl Solo` in the **Search support database** box, click the Search arrow, and then follow the download instructions.

Densité Services

- [Ref. #31399] **HDA-1851**: Support for the new HDA-1851 Densité card. The HDA-1851 card is an HD/SD/ASI distribution amplifier with up to nine outputs and automatic equalization for up to 140 meters. It also offers signal presence detection and remote reporting. The card's multiformat features make it ideal for applications where HD and SD signals may co-exist. iControl Solo version 4.10 introduces firmware version 1.0.0 of the HDA-1851 Densité card.
- [Ref. #31399] **HDA-1861**: Support for the new HDA-1861 Densité card. The HDA-1861 card is a reclocked HD/SD/ASI distribution amplifier with up to nine outputs and automatic equalization for up to 140 meters. Reclocking of the video signals provides an additional level of signal integrity in long cable length applications. The HDA-1861 DA supports both HD-SDI (SMPTE-292M) and SDI (SMPTE-259M-C) and also offers signal presence detection and remote reporting. iControl Solo version 4.10 introduces firmware version 1.0.0 of the HDA-1861 Densité card.
- [Ref. #29511] **HLP-1801**: Support for firmware version 2.0.0. In addition to the LOCAL lipsync probing mode, this firmware version allows you to use the remote fingerprint analyzer offered with iControl Solo version 4.10. The HLP-1801 Densité card, using firmware version 2.0.0, can send the audio and video fingerprint for lipsync analysis at the iControl Solo level.
- [Ref. #31025] **SDA-1402**: Support for the new SDA-1402 Densité card. The SDA-1402 card has the same functionality as the SDA-1401 card but adds compatibility with the rear connector panels of the HDA-18xx and HDA-19xx cards. iControl Solo version 4.10 introduces firmware version 1.0.0 of the SDA-1402 card.
- [Ref. #29986] **XVP-3901**: Support for firmware version 3.0.0. This version supports the following additional enhancements:

- New AFD
- ALC4 additional programs
- 625 Teletext
- SPF Info Tab
- New 704-pixel resolution
- SD aspect ratio auto mode
- Fingerprint Analysis support

- [Ref. #30201] **XVP-1801**: Support for firmware version 1.4.0. This version allows users to select 720 or 704 horizontal output pixels when converting from HD to SD.
- [Ref. #29898] **HCO-1822**: Support for the new HCO-1822 Densité card. The HCO-1822 card replaces the HCO-1821 card and adds support for iControl Solo's Fingerprint Analysis and the Miranda Automatic Loudness Control features. The HCO-1822 card's Fingerprint Analysis support includes two inputs and one output for probing.

  Note: Configuring MPEG encoding with 704 pixels in ATSC applications produces an output image that is narrower with reduced anamorphism.

- [Ref. #29511] **HLP-1801**: Support for firmware version 2.0.0. This version adds support on the HLP-1801 Densité card for iControl Solo's Fingerprint Analysis feature. The HLP-1801 card provides two inputs for probing.

New in Version 3.71

Densité Services

- [Ref. #29277] **SCO-1421**: Support for firmware version 3.0.0. This version adds support on the SCO-1421 Densité card for ETS 290 probing and TS bit rate pie chart representation.
- [Ref. #29279] **IRD-3101/3111**: Support for firmware version 3.2.4. This firmware version supports the new IRD-3101 and IRD-3111 Densité cards, which are SD-only versions of the IRD-3802 and IRD-3811 cards, respectively.
- [Ref. #29071/29072] **3DX-3901**: Support for firmware version 1.2.0. This version includes HANC/VANC metadata pass-through (e.g. Closed Captioning, Timecode, AFD) and support for 3Gbps Level B Dual stream for 1080i, 1080p23.98, 1080p23.98SF, 1080p25, 1080p29.97 and 720p stream formats.

New in Version 3.70

Densité Services

- [Ref. #27941] **3DX-3901**: Support for the new 3DX-3901 card (firmware version 1.1.0) . The 3DX-3901 is a new Densité card which provides all essential stereoscopic signal processing functions on a single card.
- [Ref. #27128] **HMP-1801**: Support for firmware version 5.0.0 of the HMP-1801 Densité card. This version introduces a new 3D option.

- [Ref. #27027] **WDA-1001**: Support for the new WDA-1001 card (firmware version 1.0.0). The WDA-1001 is a World Clock Distribution Amplifier which provides 8 outputs and support for a wide range of clock frequencies and amplitudes.
- [Ref. #27026] **DDA-1113/DDA-1133**: Support for the new DDA-1113/1133 cards, digital audio (DA) cards that support AES3 digital audio standards (75 and 110 ohm) and provide 9 outputs.
- [Ref. #27024] **FIO-1901**: Support for the new FIO-1901 series of cards, which provides serial digital video to/from fiber optic cable for the Densité frames. The series supports SD, HD, 3Gbps and DVB-ASI signals using SFP modules in many different configurations.

  Note: The FIO-1901 Densité cards in iControl Solo 3.70 are in Beta stage.

- [Ref. #27006] **IRD-3811**: New iControl Solo alarms to log BER, CNR and signal-strength problems that may be encountered with the DVB-S2 and VQ modules.
- [Ref. #26534] **AMX-3981, ADX-3981**: Support for firmware version 2.0.0. This version adds various hardware options, such as Automatic Loudness Control from Linear Acoustic and Junger Audio, Dolby Digital (AC-3) encoder, Dolby E & Digital (AC-3) decoder, etc.
- [Ref. #26534] **EAP-3901**: Support for the new EAP-3901 and EAP-3101 cards (firmware version 2.0.0). The EAP-3901 is an advanced embedded audio processor supporting 3Gbps/HD/SD input. The EAP-3101 is limited to SD-In. Both cards provide down-mixing, Proc Amp, channel shuffling and mixing, and options for Automatic Loudness Control (ALC), Dolby encoding and decoding.
- [Ref. #26533] **SCO-1421**: Support for the new SCO-1421 card (firmware versions 101 and 200). The SCO-1421 is a 2 × 1 intelligent ASI changeover switch with built-in MPEG-TS probing.
- [Ref. #25724] **FXE-1501**: Support for the FXE-1501 card. This card is an Ethernet-to-Fiber transceiver that converts 10/100/1000BASE-T Ethernet over unshielded twisted pair (UTP) to 1000BASE-SX/LX Gigabit Ethernet-over-fiber, using an SFP module.

New in Version 3.60

Densité Services

- Support for the Kaleido-Modular-3901 is an 8-input 2-output multi-viewer on a card. It is the most space and energy efficient multi-viewer system, with up to 20 multi-viewer outputs per 3RU frame, consuming only 300 Watts in total. It also offers expansion up to 288 multi-viewer outputs when connected to an upstream router.
- [Ref. #25724] Introduction of the BETA version of the FXE-1501 Densité card. This card is an Ethernet-to-Fiber transceiver that converts 10/100/1000BASE-T Ethernet over unshielded twisted pair (UTP) to 1000BASE-SX/LX Gigabit Ethernet over fiber, using an SFP module.

  Note: The FXE-1501 Densité card in iControl Solo 3.60 is in a Beta stage. For more information, see the *FXE-1501 Fiber Ethernet Transceiver Guide to Installation and Operation* (**M909-9900-100**).

- [Ref. #26610] Support for the ADX-3981 Densité card (firmware version 1.0.0). The ADX-3981 Densité card is a 3G/HD/SD 8-AES audio and metadata de-embedder. For more information, see the *ADX-3981 3Gbps/HD/SD 8 AES Audio & Metadata De-embedder Guide to Installation and Operation* (**M923-9900-101**).
- [Ref. #26110] Support for the AMX-3981 Densité card (firmware version 1.0.0). The AMX-3981 Densité card is a 3G/HD/SD 8-AES audio and metadata embedder. For more information, see the *AMX-3981 3Gbps/HD/SD 8 AES Audio & Metadata Embedder Guide to Installation and Operation* (**M922-9900-101**).

Fixed Bugs

Fixed in Version 6.00

Fixed in Version 4.30

Densité Services

- [Ref. #19004] When you open a service's control panel by using the `Show Info control panel` command (right-click a device in iControl Solo, and then click **Show info control panel**), the **Info** tab may not be the window in focus.

Fixed in Version 4.14

Densité Services

- [Ref. #35693] When an XVP-3901 control panel is repeatedly opened and closed, iControl Solo may freeze.

Fixed in Version 4.12

Densité Services

- [Ref. #32038] The firmware version of a Dolby Digital or a Dolby E Encoder does not appear in iControl Solo.
- [Ref. #31082] **3DX-3901**: In the 3DX-3901 Control Panel, the Critical Health Failure alarm is not visible in the Alarm Configuration panel.
- [Ref. #33089] **FIO-1901**: In the FIO-1901 Control Panel, when attempting to copy a FIO-1901 card's alarm profile to other cards, the other cards are not visible in the **Copy to other cards** menu.

Fixed in Version 4.11

Densité Services

- [Ref. #31472] **HMP-1801**: When selecting a Preload, a different clip than the one you chose may cue and play.

- [Ref. #23734] Audio-streaming may intermittently cut off due to audio loss packets. This may result in an audible tick or pop

Fixed in Version 4.10

- [Ref. #28868] **IRD-3811**: When the IRD-3811 control panel is opened and closed frequently, the system CPU and memory usage may increase beyond expected levels.
- [Ref. #23734] Audio-streaming may intermittently cut off due to audio loss packets. This may result in an audible tick or pop.

Fixed in Version 3.70

- [Ref. #27177/T103446] **XVP-1801**: After saving a user profile, and then restoring the factory default settings, reloading the saved user profile may fail.
- [Ref. #25957] **FXE-1501:** The *Rear module* type and *Fiber module* type are missing in the FXE-1501 **Info** panel in iControl Solo.
- [Ref. #25829] **FXE-1501:** The Link Loss FWD selection is missing from the FXE-1501 **Config / Status** panel in iControl Solo.

Fixed in Version 3.60

- [Ref. #15314] When Densité services are often stopped and restarted by Standby/Online actions made with a Densité Manager, an *OutOfMemory* error may eventually result.
- [Ref. #25942] On the IRD-3802 and IRD-3811 Densité cards, the service panel may become unresponsive and may close when TR 101 290 probing is enabled.
- [Ref. #23288] On the HMP-1801 Densité card, the control panel may not reflect the correct card mode when toggling between RECORD and PLAYBACK modes.
- [Ref. #25525/25578] On the HMP-1801 Densité card, the GPI configuration of both RECORD and PLAYBACK modes may not work properly.
- [Ref. #25554] On the HMP-1801 Densité card, the Thumbnail and ALM panels may have unexpected behaviors including:
  - The aspect ratio of the thumbnail may be incorrect.
  - The ALM speed may be incorrect.
  - The Thumbnail and ALM are disabled when switching from PLAYBACK to RECORD modes, and vice versa.
- [Ref. #25428] On the HMP-1801 card, alarms may not be saved correctly at all times.

Known Issues and Limitations

The following is a list of known issues and limitations associated with iControl Solo. The star (★) symbol indicates a new issue in iControl Solo version 6.00.

★ [Ref. #ICONTROL-18127] If you are upgrading from iControl Solo version 5.00 to version 6.00, and you are monitoring any of the following cards, then, after the upgrade, you may find

firmware upgrades for those cards (through **Densité Upgrade Manager**) may produce a `Software Installation Error` message. The aforementioned Densité cards are as follows:

- FRS-3901
- HLP-1801
- AMX-3981
- EAP-3101
- EAP-3901
- ADX-3981

Workaround:

1. Install iControl Solo version 6.00.
2. Upgrade the Densité cards (listed above) to **`Upgrade Package 3.0.1-RC1`**.

- [Ref. #ICONTROL-16189] When a Densité 3+ is connected to the Densité Manager of iControl version 4.4x, iControl shows that there are 21 slots available when, in fact, there are only four available.
- [Ref. #ICONTROL-16025] If you have an active loudness data source and you attempt to remove the Kaleido-Solo in the Densité Manager, you may receive an error message indicating the device is unavailable.

  Workaround:

  1. Remove the Kaleido-Solo from the Densité Manager while the source is still active.

     In Loudness Logger, the Kaleido-Solo should still be visible but will display as unavailable.
  2. In the Loudness Logger list, right-click the Kaleido-Solo and stop the service.

     Although an error message appears, the service will stop.
- [Ref. #ICONTROL-16023] **XVP-3901**: If the XVP-3901 card is logging loudness data and you enable then disable loudness monitoring, the loudness logging activity may be interrupted, that is, the log file will close while a new one is created. The overall effect is a loss of logged loudness data.
- [Ref. #ICONTROL-15959] If you have an XVP-3901 card whose *Loudness* option is not enabled, and you attempt to start logging from and then subsequently enable the card's *Loudness* option, the **Loudness Logger** status for that card remains `<card> waiting for data`.

  Workaround: In **Loudness Logger**, once the option is enabled, right-click the service, toggle the log to **OFF**, and then toggle the log back to **ON**.
- [Ref. #ICONTROL-12724] **HCO-3901**: When the refresh rate of an HCO-3901 card is set to 10 seconds, after you power up the card, thumbnails do not display on the thumbnail panel.

  Workaround: Toggle the refresh rate to FAST and then back to 10 seconds.

- [Ref. #ICONTROL-12902] **Axino, Kaleido Solo-900/910**: When attempting to rename either an Axino service or Kaleido Solo-900/910 service in iControl Solo, these services may disappear from iControl Solo's view.

  Workaround: Restart iControl Solo.

- [Ref. #ICONTROL-12901] **Lumo Controller Service**: When attempting to rename the Lumo controller service in iControl Solo, the controller may disappear from iControl Solo's view.

  Workaround: Restart iControl Solo.

- [Ref. #37262] **Loudness Logger/Analyzer**: If the Loudness Logger is active while you switch inputs to the Kaleido-Solo (KS910), the Logger may not recover (restart logging) automatically. In such a case, on the Loudness Logger configuration page, the corresponding KS910 would display `NO DATA`.

  Workaround: To recover logging capability, do the following:

  1. Open the Densité Manager.
  2. Select the problematic Kaleido Solo.
  3. Put the Kaleido Solo in *Standby* mode.
  4. Put the Kaleido Solo in *Online* mode.

- [Ref. #29836] **IRD-3811**: If your video output is SD and your reference is HD, the audio may not process correctly when either of the following conditions are true:

  - You have analog audio synchronized on an SDI output.
  - Your audio is de-embedded by a de-embedder with the same reference as the IRD card

- [Ref. #29503] If your Densité cards have firmware enabling support for fingerprint configuration, the control panels for these cards within iControl Solo will show fingerprint controls, even if the version of iControl Solo you are using does not support it. In this case, even if there are incoming lipsync and reference signals, iControl Solo is unable to detect, compare, nor analyze them.

- [Ref. #25584] On the HMP-1801 Densité card, profiles are not yet implemented on the control panel.

- [Ref. #24876] In the case of certain Densité cards, although their control panels are visible in the iControl Solo context, features related to User Defaults are not supported.

- [Ref. #21532] In the Densité Manager's **Target Information** window (on the DensiteManager control panel's **Configuration** tab, click **Add**), the **Redundancy Configuration** and **Mode** sections are not relevant in the context of iControl Solo.

- Some card services like the HCO-1821, the XVP-811 or the DAP-781 may take up to 60 seconds to initialize. In this case, the card may appear in the selected Navigator view but the associated control panel will not show statuses and parameter values.

- Startup time may be affected by having multiple frames configured in the Densité Manager, even if they are set to *Standby*.

- It can take up to two minutes to discover and initialize an Imaging frame.

- On rare occasions, the *copy profile* feature available with many of our Densité cards may not successfully copy parameters to all cards.

  Workaround: Reduce the number of cards to which parameters are copied.
- It could take up to one minute for iControl Solo Navigator to know that services are no longer available.
- The Miranda Imaging Quartet 1 and iControl Solo frame are not supported.
- Thumbnail, ALM and CC streaming on Miranda Densité series probes is not supported.
- The Reference Config feature (Config Status in Navigator) is not supported.

Cards and Devices Supported in this Release

Densité Cards

iControl Solo version 6.00 is compatible with both Densité Ethernet Controller (CPU-ETH and CPU-ETH2). In the case of CPU-ETH, it is strongly recommended to upgrade to the latest Densité Ethernet Controller version (3.00 or later). Any CPU-ETH2 version can be used but it is recommended to use version 2.0.4 or later.

For each Densité Series card supported in this release, the following table provides the card model, the currently supported firmware version of the card, and the iControl Solo version number that first supported this model.

The star (★) symbol indicates a new card, or new version of a card, that is supported in this release.

Card Model	Firmware Version	Introduced in iControl Solo Version
3DX-3901	1.2.0	3.70
AAP-1741	1.0.1	3.20 or earlier
ACP-1721	3.2.1	3.20 or earlier
ADA-1001		3.20 or earlier
ADA-1021		3.20 or earlier
ADA-1023	2.0.0	3.20 or earlier
ADA-1031	4.0.0	3.20 or earlier
ADA-1033	4.0.0	3.20 or earlier
ADC-1101	1.1.0	3.20 or earlier
ADC-1721	2.0.4	3.20 or earlier
ADC-1722	2.0.4	3.22
ADX-1121		3.20 or earlier
ADX-1141	1.0.6	3.20 or earlier

(*Continued*)

Card Model	Firmware Version	Introduced in iControl Solo Version
ADX-1841		3.20 or earlier
ADX-1842	3.0.5	3.20 or earlier
ADX-1851		3.20 or earlier
ADX-1852	3.0.5	3.20 or earlier
ADX-1881	1.2.1	3.20 or earlier
ADX-3981	2.0.1	3.60
AMX-1121	1.0.6	3.20 or earlier
AMX-1141	1.0.6	3.20 or earlier
AMX-1841	2.0.7	3.20 or earlier
AMX-1842	2.0.9	3.20 or earlier
AMX-1881	2.1.8	3.20 or earlier
AMX-3981	2.0.1	3.60
DAC-1721	2.0.5	3.20 or earlier
DAP-1781	3.3.6	3.22
DCO-1741	1.0.0	3.30
DCO-1781	1.0.0	3.30
DCP-1721	2.1.2	3.20 or earlier
DDA-1111	2.0.2	3.20 or earlier
DDA-1112	2.0.2	3.20 or earlier
DDA-1113	1.0.0	3.70
DDA-1131	2.0.2	3.20 or earlier
DDA-1132	2.0.2	3.20 or earlier
DDA-1133	1.0.0	3.70
DEC-1001	2.0.6	3.20 or earlier
DEC-1002	2.0.1	3.20 or earlier
DEC-1003	1.0.0	3.20 or earlier
DEC-1021	2.0.1	3.20 or earlier
DEC-1023	1.0.0	3.20 or earlier
DSK-3901	3.1.1	3.41
EAP-1101	2.0.1	3.22
EAP-1103	1.1.1	3.22
EAP-3101	2.0.1	3.70

(*Continued*)

Card Model	Firmware Version	Introduced in iControl Solo Version
EAP-3901	2.0.1	3.70
ENC-1101	2.0.2	3.20 or earlier
ENC-1103	1.0.2	3.20 or earlier
FIO-901	1.0.3	4.40
FIO-1811	1.0.2	3.20 or earlier
FIO-1821	1.0.2	3.20 or earlier
FIO-1831	1.0.2	3.20 or earlier
FIO-1841	1.0.3	3.20 or earlier
FIO-1851	1.0.3	3.20 or earlier
FIO-1901-RR	1.0.2	3.70
FIO-1901-TT	1.0.2	3.70
FIO-1901-RT	1.0.2	3.70
FIO-1901-R	1.0.0	3.70
FIO-1901-T	1.0.2	3.70
FLO-1601		3.20 or earlier
FOL-1601		3.20 or earlier
FRS-1101	2.0.4	3.22
FRS-1103	1.2.0	3.22
FRS-1801	2.0.2	3.22
FXE-1501	1.0.1	3.60
GPI-1501	1.0.0	3.31
HCO-1821	1.4.0	3.20 or earlier
HCO-1822	1.0.0	4.10
HCO-1831	2.0.2	3.20 or earlier
HCP-1801	2.0.8	3.20 or earlier
HDA-1801		3.20 or earlier
HDA-1802		3.20 or earlier
HDA-1811		3.20 or earlier
HDA-1812		3.20 or earlier
HDA-1822	1.0.3	3.20 or earlier
HDA-1832	1.0.3	3.20 or earlier
HDA-1841		3.20 or earlier

(*Continued*)

Card Model	Firmware Version	Introduced in iControl Solo Version
HDA-1851	1.0.0	4.10
HDA-1861	1.0.0	4.10
HDA-1911	1.0.6	3.22
HDA-1931	1.0.6	3.22
HDC-1801	1.1.2	3.20 or earlier
HDC-1861	1.1.2	3.20 or earlier
HLP-1801	2.0.0	3.50
HMP-1801	5.0.0	3.21
HRS-1801-IN	1.0.1	3.22
HRS-1801-OUT	1.1.6	3.22
IRD-3101	3.2.4	3.71
IRD-3111	3.2.4	3.71
IRD-3801	3.2.3	3.21
IRD-3802	3.2.3	3.20 or earlier
IRD-3811	3.2.3	3.22
IRG-3401	1.0.0	4.43
KMV-3901	5.1.1	3.60
LGK-3901	3.1.1	3.41
MMX-1801	1.2.2	3.20 or earlier
MSB-1121	1.1.0	3.20 or earlier
REF-1701	2.0.4	3.20 or earlier
REF-1801	1.0.2	3.20 or earlier
SCO-1421	3.0.0	3.70
SCP-1121	2.0.2	3.20 or earlier
SDA-1101		3.20 or earlier
SDA-1102	1.0.1	3.20 or earlier
SDA-1111		3.20 or earlier
SDA-1112	1.0.1	3.20 or earlier
SDA-1141		3.20 or earlier
SDA-1142	1.0.1	3.20 or earlier
SDA-1161	1.0.4	3.20 or earlier
SDA-1162	1.0.2	3.20 or earlier

(*Continued*)

Card Model	Firmware Version	Introduced in iControl Solo Version
SDA-1401	1.0.0	3.31
SDA-1402	1.0.0	4.10
SDM-1151		3.20 or earlier
SME-1901	1.0.0	4.43
SME-3101	1.0.2	3.50
SPG-1801	1.0.2	3.20 or earlier
UAP-1781	3.1.0	3.20 or earlier
UAP-1781	3.1.0	3.20 or earlier
UAP-1783	1.0.2	3.20 or earlier
VCP-1021	3.0.1	3.20 or earlier
VDA-1001		3.20 or earlier
VDA-1002	1.1.1	3.20 or earlier
VEA-1001		3.20 or earlier
VEA-1002		3.21
VEA-1021		3.20 or earlier
VEA-1023	1.1.1	3.20 or earlier
WDA-1001	1.0.2	3.70
XVP-1801	1.4.0	3.20 or earlier
XVP-3901	3.2.0	3.21

Contact Us

Miranda Technical Support

For technical assistance, please contact the Miranda Technical Support center nearest you:

Americas
Office hours: 9:00 a.m. - 9:00 p.m. (EST)
Telephone: 1-800-224-7882
Fax: +1 514 335 1614
E-mail: support@miranda.com

Asia
Office hours: 9:00 a.m. - 5:00 p.m. (GMT+8)
Telephone: + 852 2539 6987
Fax: + 852 2539 0804
E-mail: asiatech@miranda.com

Europe, Middle East, Africa, UK
Office hours: 9:00 a.m. - 6:00 p.m. (GMT)
Telephone: + 44 118 952 3444
Fax: + 44 118 952 3401
E-mail: eurotech@miranda.com

China
Telephone: + 86 10 5873 1814
E-mail: asiatech@miranda.com

France
Office hours: 9:00 a.m. - 5:00 p.m. (GMT + 1)
Telephone: + 33 1 55 86 87 88
Fax: + 33 1 55 86 00 29
E-mail: eurotech@miranda.com

EMERGENCY After Hours (Global)
Toll Free: 1-800-224-7882 (US and Canada)
Telephone: +1 514 333 1772

Corporate Head Office

Miranda Technologies Partnership
3499 Douglas-B.-Floreani, St-Laurent, Québec, Canada H4S 2C6

Telephone: +514 333 1772
Fax: +514 333 9828
Web: www.miranda.com