



InformaCast[®] Desktop Notifier[™] 14.6.1

Installation and User Guide for InformaCast Fusion with a Windows Environment

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Overview

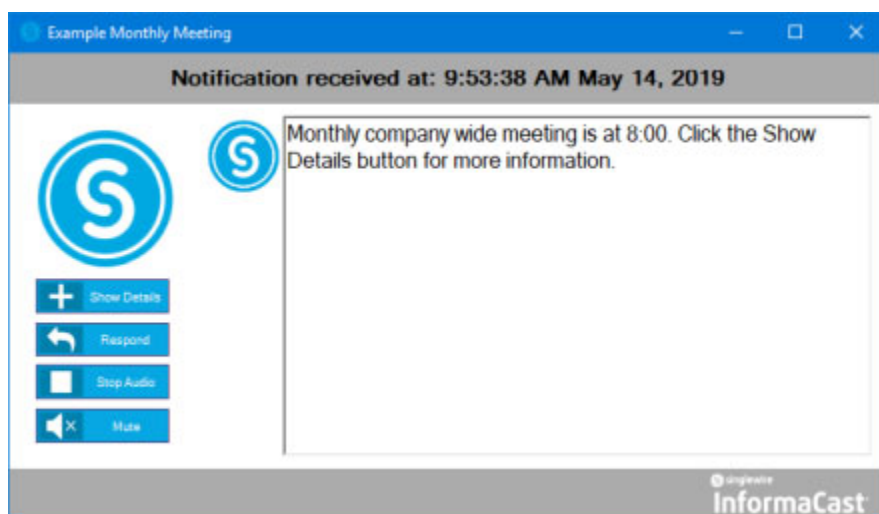
The InformaCast Desktop Notifier allows Windows and Mac computer desktops to receive InformaCast Fusion notifications.

InformaCast Desktop Notifier instances register with InformaCast Fusion similarly to IP speakers and can be added to InformaCast Fusion's device groups with the same process you'd use when adding IP speakers.

The InformaCast Desktop Notifier starts up automatically upon user login, contacts the InformaCast on-premises server for registration, and then listens for its inclusion in the device group of an InformaCast Fusion notification. Four distinct components make up the InformaCast Desktop Notifier:

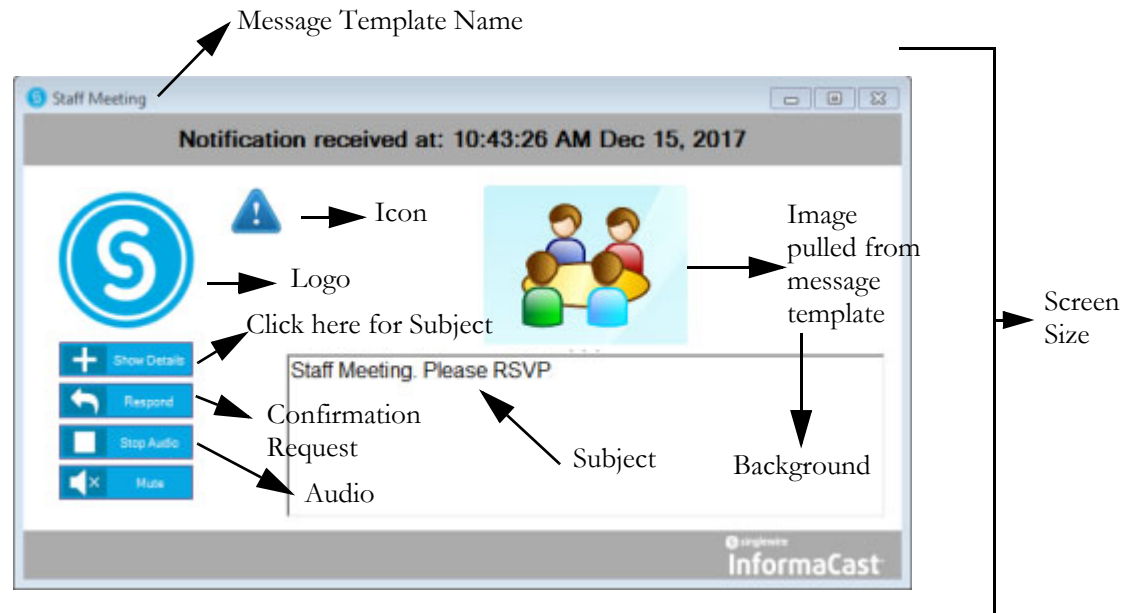
- The Notification window
- The InformaCast Desktop Notifier menu
- The InformaCast Fusion user interface
- A speaker properties file

The Notification window displays/plays InformaCast Fusion notifications on Windows or Mac desktops.



The **Subject** field of an InformaCast Fusion message template displays immediately in the right pane of the Notification window while the **Body** field's contents (if configured) will display upon clicking the **Show Details** button in the left pane.

Depending on whether the InformaCast Fusion message template contains audio or confirmation requests, the **Respond**, **Stop/Start Audio**, and **Mute Audio** buttons will either be enabled or disabled. Several other Notification window components are customizable, and these are labeled in the following picture.

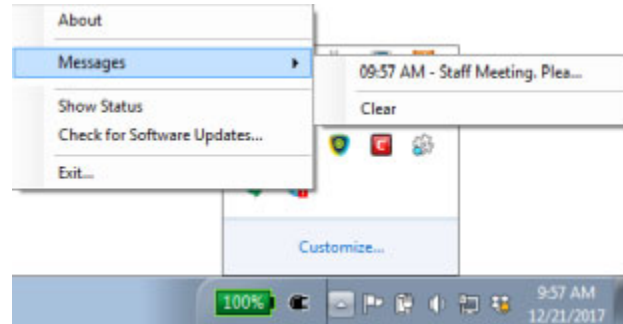


In addition to receiving notifications through the Notification window, InformaCast Desktop Notifier instances can also receive less intrusive notifications through other means:

- A badge, i.e. an incrementing of the number of notifications overlaid on the InformaCast Desktop Notifier's icon in the Task Bar)
- A toast, i.e. a brief, automatically expiring pop-up window
- A ticker, i.e. a scrolling banner at the bottom of users' screens

See "Modify Settings with the InformaCast Fusion User Interface" on page 20 for more information.

The InformaCast Desktop Notifier menu (shown in the following picture) provides access to an About window and Status report, and houses the commands to check for software updates (if configured), or exit the application altogether as well as two sub-menu options to see your received notifications and clear those notifications from your screen.



The InformaCast Fusion user interface allows for the customization of the Notification window's appearance and the initial display type, i.e. immediate, badge, ticker, etc. These settings can also be controlled by a policy file; however, the InformaCast Fusion user interface is the preferred medium for this configuration.

Lastly a speaker properties file houses the settings for the method in which the InformaCast Desktop Notifier retrieves the speaker configuration file from the InformaCast Fusion on-premises server, its MAC address, the on-premises server's port number on which it listens for InformaCast Fusion communication, and automatic update parameters.

Intended Audience

This guide is intended to walk you through the installation and administration of the InformaCast Desktop Notifier. It is written with two audiences in mind: its administrators and users.

There are several versions of this guide:

- Windows environments in conjunction with InformaCast Advanced Notification (InformaCast)
- Mac environments in conjunction with InformaCast
- Windows environments in conjunction with InformaCast Fusion
- Mac environments in conjunction with InformaCast Fusion

Please ensure you have the right version by looking at the cover page or the environment type printed at the bottom of every page.

User Guide Standards

Specific fonts are used to represent specific kinds of information in this user guide. The fonts and their meanings are listed here:

- **Bold fonts** indicate the name of a button, text field, or other element with which you interact and any text that you must enter.

- *Italic fonts* indicate the name of an area or section on one of the InformaCast Desktop Notifier's windows.
- Angled brackets enclose text that varies with your specific environment, i.e. `http:\\<Your IP Address>` means that you would enter your specific IP address instead of the brackets and what they enclose.
- Blue, underlined text indicates a hyperlink.

There are several kinds of notification boxes used in this guide.

- **Tip.** These offer advice or “best practices.”
- **Note.** These contain additional information, usually relevant in special cases.
- **Caution.** These contain information about a procedure that may reduce the performance of your system.
- **Warning.** These contain information about a procedure that can impair or disable your system.

Prerequisites

The InformaCast Desktop Notifier has the following requirements:

- A successful installation of InformaCast Fusion 3.6.0 or later with an installed license key for InformaCast Desktop Notifier instances (contact sales@singlewire.com if you don't have a license key that includes the InformaCast Desktop Notifier)



Note Versions 3.5.0 or later allow you to control the behavior of the InformaCast Desktop Notifier through InformaCast Fusion's user interface. Earlier versions of InformaCast Fusion are encouraged to upgrade to the latest release.

- A screen resolution of at least 640x480
- Windows 10 x64
- Administrative access to an Intel-based Windows OS
- A PC meeting Microsoft's recommended hardware requirements for Windows 10



Note The InformaCast Desktop Notifier requires a minimum of .NET 4.6.2; the installation will not proceed if this prerequisite is not met.

- Supported Virtual Desktop Interface (VDI) Products (optional):
 - VMware Horizon 7.4 or newer with VMware Horizon 7 View Client (Windows and MacOS 4.7) (64-bit x86)
 - Citrix XenDesktop 7.4 or newer with Citrix Receiver (Windows 4.11 and MacOS 12.8.1)
 - VMware vSphere 6.5 or newer with Microsoft Remote Desktop (Windows built-in and MacOS 8.027325)

VDI Environments

Several VDI products are supported with the InformaCast Desktop Notifier. The actual configuration of your VDI environment is your responsibility and outside the scope of this user guide; however, there are a few extra configuration steps (see “Configuration Details” on page 5) that you can take to ensure a more seamless integration between your VDI environment and the InformaCast Desktop Notifier.

Citrix Environments

The InformaCast Desktop Notifier supports being installed in a pooled-desktop, Citrix environment, which can be assigned to users statically or randomly:

- Static, virtual desktops are assigned to users upon first logon and for all subsequent sessions. According to [Citrix documentation](#), static desktops “allow for certain application limitations to be overcome, particularly around licensing where users may need to run applications from desktops with persistent names, IP addresses and/or MAC addresses.”
- Random, virtual desktops “are arbitrarily assigned to users during logon and returned to the pool when they logoff[;]...virtual desktops are considered disposable after each use, helping to keep a clean and consistent environment.”

When using random pooled desktops, several extra configuration steps must be taken to ensure that users aren’t assigned the same MAC address (see “Set the MAC Address of the InformaCast Desktop Notifier” on page 26).

Microsoft Remote Desktop Services

The InformaCast Desktop Notifier supports Microsoft Remote Desktop Services (RDS) configured with the full Desktop experience. You can connect using a Microsoft Remote Desktop Client to a Microsoft Windows or VMware server, which provides an RDS Desktop Pool. Because the InformaCast Desktop Notifier relies on the network MAC address to register and receive broadcasts with InformaCast Fusion, pooled desktop sessions for session-based virtualization are not supported.

VMware Horizon

The InformaCast Desktop Notifier can be installed in a VMware Horizon environment. When doing so, be sure to [enable Multimedia redirection in your Global Policies](#) as needed to receive multicast audio. You may choose to configure Automated Desktop Pools, Manual Desktop Pools, or RDS Desktop Pools. User assignment within these pools may be either Dedicated or Floating. Because the MAC address is used to register and receive broadcasts, if the VDI is not persistent and desktop settings are not preserved, upon startup, each VDI may be assigned a new MAC address and could be seen in InformaCast Fusion as a new device. If you’re using non-persistent desktops, extra configuration steps must be taken to ensure that users aren’t assigned the same MAC address (see “Set the MAC Address of the InformaCast Desktop Notifier” on page 26).

Configuration Details

While the configuration of your VDI environment is outside the scope of this user guide, there are a few extra configuration steps you can perform in your VDI environment to allow the InformaCast Desktop Notifier to handle events such as initial logins and session reconnections.

**Note**

It is assumed that VDI sessions are not shared across multiple devices.

Because these changes may need to be merged with your other applications, the InformaCast Desktop Notifier's default installation process does not perform these changes automatically. It is expected that your System Administrator will make the requisite changes. The following table contains the VDI events that may require extra configuration steps along with the supported VDI products.

VDI Events	Microsoft Remote Desktop Services ^a	VMware Horizon ^b	Citrix Receiver ^c
An initial connection or login, i.e. when device details are sent to the InformaCast Fusion on-premises server	The InformaCast Desktop Notifier should run via a standard installation upon login.	The InformaCast Desktop Notifier must <i>not</i> run via a standard installation, i.e. Startup Programs; it relies on VMware Horizon Group Policy. ^d CommandsToRunOnConnect must include: [INSTALLDIR]\VDISessionMonitor.exe connect ^e	The InformaCast Desktop Notifier must <i>not</i> run via a standard installation, i.e. Startup Programs; it relies on Citrix's SessionStateMonitor . StartupCommands must include: [INSTALLDIR]\VDISessionMonitor.exe connect
A session resumes from different device, i.e. when new device details are sent to the InformaCast Fusion on-premises server	No extra steps are required. Reconnections are detected using standard Operating System Events.	The InformaCast Desktop Notifier should use VMware Horizon Group Policy. CommandsToRunOnReconnect must include: [INSTALLDIR]\VDISessionMonitor.exe reconnect	The InformaCast Desktop Notifier should use SessionStateMonitor . ReconnectCommands must include: [INSTALLDIR]\VDISessionMonitor.exe reconnect
A session disconnects	No extra steps are required. The InformaCast Desktop Notifier terminates upon logout.	The InformaCast Desktop Notifier should use VMware Horizon Group Policy. CommandsToRunOnDisconnect must include: [INSTALLDIR]\VDISessionMonitor.exe disconnect	The InformaCast Desktop Notifier should use SessionStateMonitor . DisconnectCommands must include: [INSTALLDIR]\VDISessionMonitor.exe disconnect

a. Terminal Services APIs

b. Windows Registry values set by Horizon View

c. WinFrame APIs

d. Running the InformaCast Desktop Notifier installation within a VDI automatically disables program startup via standard Windows facilities. If you are creating a base image elsewhere or need to do this manually, you can use Task Manager to disable startup. For a more flexible option, you may instead control program startup behavior using Group Policy.

e. The value [INSTALLDIR] represents the Microsoft Windows Software installation absolute filesystem path.

VDI Environment Caveats

The following VDI access mechanisms are currently unsupported:

- Multi-hop scenarios, i.e. a session or connection to a VDI which in turn initiates another connection to one or more other VDIs
- Web browser access (due to browser and vendor limitations)
- Access from personal or company-owned devices from non-corporately-controlled networks (IP addresses may overlap using Network Address Translation)

- Mobile phones on corporately controlled networks

Microsoft Kiosks

The InformaCast Desktop Notifier can be installed in a [Microsoft Kiosk environment](#) that is configured to use either:

- Shell Launcher
- Assigned Access Configuration

Shell Launcher

The [Shell Launcher](#) method supports different shells for different users or groups and might be preferable if you do not want to use the Windows 10 Tile Interface and Start menu. Either a Windows 10 Enterprise or Education Operating System version is required, and you must add the **Shell Launcher** option under **Lockdown** in the Windows Features list.

Assigned Access Configuration

The [Assigned Access Configuration](#) method supports multiple or single application variations and can also be used on more versions of Windows than the Shell Launcher method, i.e. Windows 10 Pro. Please note that permissions within this method can be done by user or group. More detailed installation instructions are [available from Microsoft](#).

Caveats

Several caveats exist for using Microsoft Kiosks:

- In Tablet mode, the Immediate initial display type will steal users' focus from the window/application in which they are active, possibly interrupting the task in which they were engaged.
- In Tablet mode, the Ticker initial display type will default to the Badge initial display type.
- In Tablet mode, the InformaCast Desktop Notifier only supports the **Max** display size setting for the Notification window, i.e. if a notification profile has the **Small**, **Medium**, or **Large** display size setting selected, it will be ignored in favor of the **Max** display size setting.
- In any mode, if the Taskbar is unavailable due to the Kiosks user interface and a broadcast arrives where the initial display type for the Notification window is Toast, Badge, or Ticker, the initial display type will automatically be changed to an Immediate display type instead.

These changes were necessary due to the intricacies of merging Microsoft's Kiosks with the InformaCast Desktop Notifier. Without them the Kiosk environment could not be supported.



Note

The Tablet mode caveats exist for all Windows 10 users, not just Microsoft Kiosks environments.

Getting Help

Before contacting Singlewire Support personnel, check the [Support Community](#) for a solution. If you still have questions, you can [initiate a request for support](#). Please include:

- Account contact information

- InformaCast Fusion maintenance contract number
- Detailed description of problem
- Windows platform version
- Product name and version



Installing the InformaCast Desktop Notifier

After determining how you will set up the InformaCast Desktop Notifier (see “Setting Up the InformaCast Desktop Notifier” on page 9 for more information), you should download the InformaCast Desktop Notifier installation files and install the InformaCast Desktop Notifier (either individually or en masse).

Download the Installation Files

The installation files for the InformaCast Desktop Notifier are located on Singlewire’s website. If you have trouble obtaining the InformaCast Desktop Notifier’s installation files, [contact sales@singlewire.com](mailto:sales@singlewire.com).

Step 1 Go to support.singlewire.com and log into your account.



Note If you don’t yet have a Singlewire account, you’ll need to create one before you can access the installation files.

Step 2 Go to <https://support.singlewire.com/s/download-idn>. The InformaCast Desktop Notifier Download page appears.

Step 3 Ensure the **Software Download** tab is selected and click the **Download Now** button for the Windows installation. The installation files download to your computer.

Step 4 Navigate to the location of your downloaded installation file and extract it from the ZIP file.

Step 5 Determine the type of installation you’d like to perform for the InformaCast Desktop Notifier and proceed to the correct section:

- “Install the InformaCast Desktop Notifier Individually” on page 10
 - “Install the InformaCast Desktop Notifier En Masse” on page 17
-

Install the InformaCast Desktop Notifier Individually

Once you have downloaded and extracted the installation files, you can install the InformaCast Desktop Notifier. The steps in this section show you how to install the InformaCast Desktop Notifier on individual computers. If you'd like to perform a mass installation, see "Install the InformaCast Desktop Notifier En Masse" on page 17.

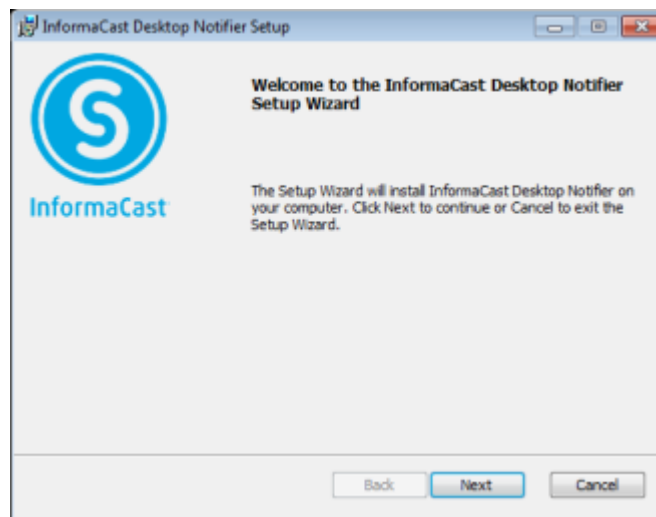
There are two ways of performing individual installations:

- Through the installer
- Silently, through command-line parameters

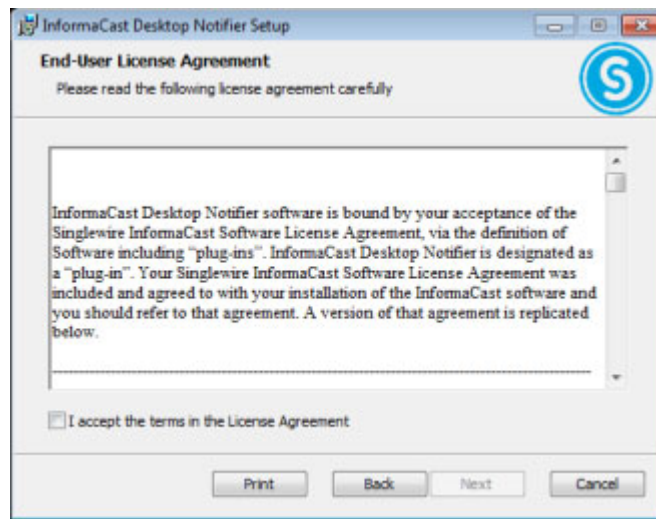
Install Using the InformaCast Desktop Notifier Installer

The InformaCast Desktop Notifier's installer is a wizard that walks you through the installation process step by step.

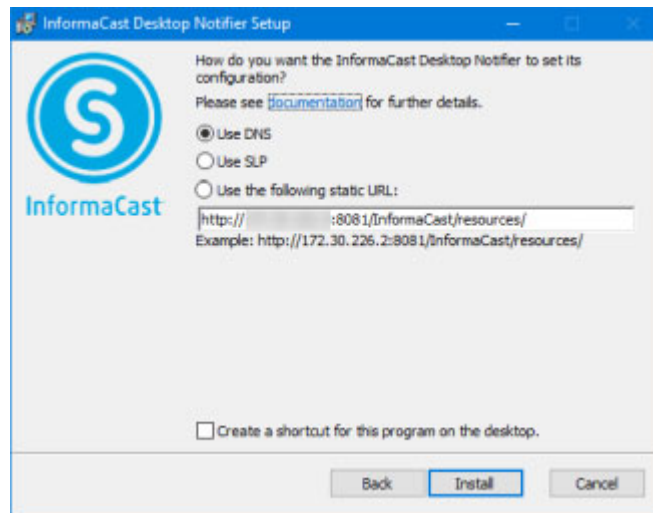
- Step 1** Navigate to where you saved your download files and double click the **DesktopNotifier.msi** file. The InformaCast Desktop Notifier Setup window appears.



- Step 2** Click the **Next** button. The InformaCast Desktop Notifier Setup window refreshes with an end user license agreement.



- Step 3** Click the **I accept the terms in the License Agreement** radio button and click the **Next** button. The InformaCast Desktop Notifier Setup window refreshes with a question as to how the speaker configuration file will be discovered and the option to create a desktop shortcut.



- Step 4** Determine how the InformaCast Desktop Notifier will find its speaker configuration file:
- If DNS is configured correctly on your network, clicking the **Use DNS** radio button will allow the InformaCast Desktop Notifier to use DNS to detect the InformaCast Fusion on-premises server. Multiple DNS domains can also be supported for distributed activation.



Note By default, `_informacast_tcp` is the default service name/protocol name for the InformaCast Fusion on-premises server, and it is prepended to the search suffixes used on InformaCast Desktop Notifier instances.

- If multicast is configured correctly, clicking the **Use SLP** radio button will allow SLP to automatically detect the InformaCast Fusion on-premises server—even if its IP address changes. Multiple servers can also be supported for distributed activation.

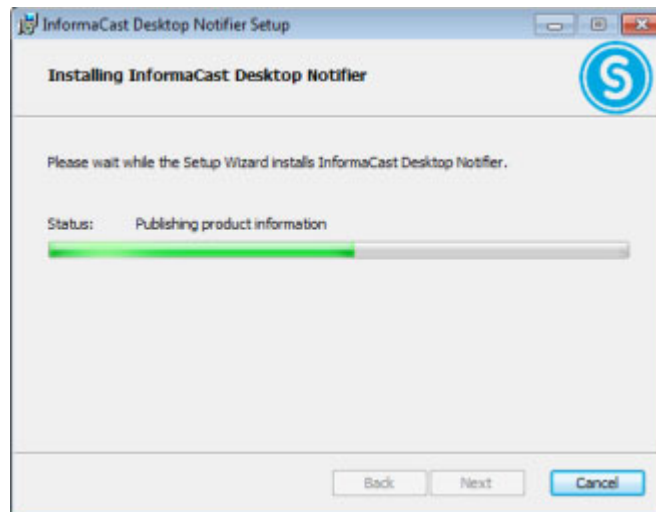


Note DNS and SLP rely on the InformaCastSpeaker.cfg file, which must contain the correct IP address of your InformaCast Fusion on-premises server. By default, the InformaCastSpeaker.cfg file is located on the on-premises server in /usr/local/singlewire/InformaCast/web/resources.

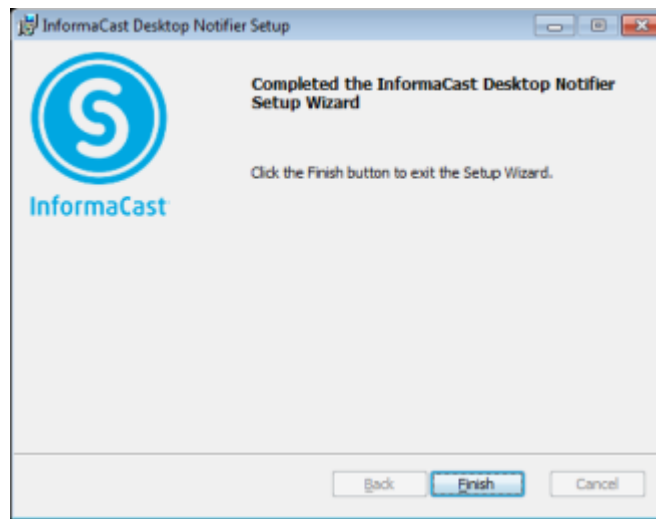
- If you'd like to specify a certain InformaCast Fusion on-premises server from which to pull the speaker configuration file, clicking the **Use the following static URL** radio button and entering an IP address in the corresponding field will ensure that the specified InformaCast Fusion will provide its speaker configuration file.

For more information on DNS versus SLP versus a static URL, see “Determine Speaker Configuration File Retrieval Method” on page 22.

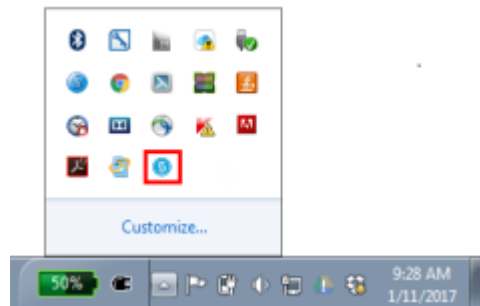
- Step 5** Deselect the **Startup and configure when installation completes** checkbox (optional) if you want to defer initial program startup and configuration rather than configure a value for a MAC address. This is useful when creating a single base image that you will be reusing on multiple computers because it prevents multiple computers from being seen as the same device via the saved MAC address that is captured from the network interface when the InformaCast Desktop Notifier starts. Using Group Policy to control startup behavior is also highly recommended; it is installed and started automatically for all users otherwise in the default InformaCast Desktop Notifier installation process.
- Step 6** Select the **Create a shortcut for this program on the desktop** checkbox if you'd like to be able to access the InformaCast Desktop Notifier from a desktop shortcut.
- Step 7** Click the **Install** button. The InformaCast Desktop Notifier Setup window refreshes, showing you the progress of the installation.



When the installer is finished, the InformaCast Desktop Notifier Setup window refreshes with a success statement.



Step 8 Click the **Finish** button to exit the installer. The Singlewire logo will appear in your Taskbar, which is in the lower right corner of your screen.



The InformaCast Desktop Notifier will also be available through your Windows **Start** menu, and if you selected the **Create a shortcut for this program on the desktop** checkbox, the InformaCast Desktop Notifier icon will appear on your desktop. There will also be a Singlewire folder added to your file structure: C:\Program Files (x86)\Singlewire\DesktopNotifier.

Install Using Command-line Parameters

If you'd like to install the InformaCast Desktop Notifier on individual machines without being prompted for any information, you can perform a silent install through your command line. If you'd like to perform one installation for multiple machines, see "Install the InformaCast Desktop Notifier En Masse" on page 17.

Before installing the InformaCast Desktop Notifier through your command line, you should have followed the steps in:

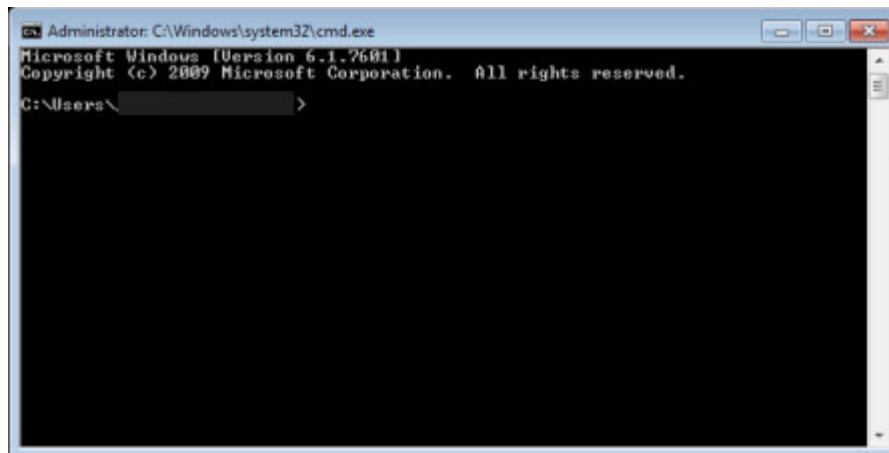
- "Configuring InformaCast Fusion" on page 19

- “Download the Installation Files” on page 9

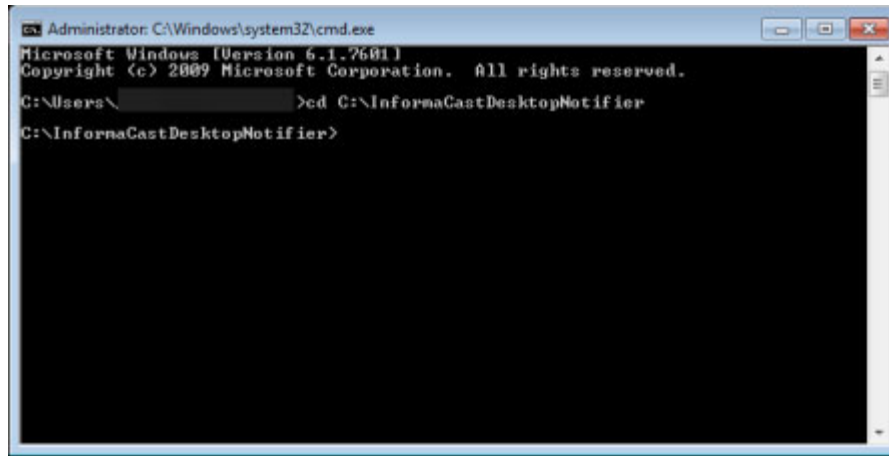
When performing a command-line installation, you have several parameters available to you:

- **INSTALLDIR.** Sets the directory where the InformaCast Desktop Notifier will be installed. The default location is C:\Program Files (x86)\Singlewire\DesktopNotifier. This parameter is optional; you only need to cite it if you want to enter a location different from the default.
- **LOCATOR_TYPE.** Controls whether the InformaCast Desktop Notifier will use DNS, SLP, or a static IP address to retrieve the speaker configuration file from InformaCast Fusion (see “Determine Speaker Configuration File Retrieval Method” on page 22 for more information). The valid entries are: **DNS**, **SLP** or **STATIC**. The default is **DNS**. This parameter is optional; you only need to cite it when you intend to use **SLP** or **STATIC**.
- **STATICURL and STATICURL1 - STATICURL11.** **STATICURL** sets the complete URL for a static configuration when **STATIC** is chosen as the method for retrieving the speaker configuration file from InformaCast Fusion. The valid entry is InformaCast Fusion’s URL, e.g. http://<InformaCast Fusion IP Address>:8081/InformaCast/resources/, where <InformaCast Fusion IP Address> should be replaced with the InformaCast Fusion on premises server’s IP address. This parameter is required if you cited **STATIC** for the **LOCATOR_TYPE** parameter. **STATICURL1 - STATICURL11** sets the additional URLs for a static configuration in a distributed activation environment.
- **INSTALLDESKTOPSHORTCUTS.** Controls whether a shortcut to the InformaCast Desktop Notifier will appear on your desktop upon completion of the installation process. The valid entry is **1** (include desktop shortcut). This parameter is optional; you only need to cite it if you want to install a desktop shortcut.

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- Step 1** Log onto the machine on which you want to install the InformaCast Desktop Notifier (either manually or remotely).
- Step 2** Ensure that your unzipped DesktopNotifier.msi file is present (you performed these steps in “Download the Installation Files” on page 9).
- Step 3** Access **Command Prompt**, right click it, and select **Run as Administrator**. A command window appears.



- Step 4** Enter `cd "<C:\DesktopNotifier.msi\Location>"`, where `<C:\DesktopNotifier.msi\Location>` is replaced with the actual location of the DesktopNotifier.msi file, and press the **Enter** key. The command window refreshes.



- Step 5** Determine which command you will enter depending on your parameters:

- **Default.** If you want to install the InformaCast Desktop Notifier with its default location of `C:\Program Files (x86)\Singlewire\DesktopNotifier` and the default value of DNS for retrieving the speaker configuration file from InformaCast Fusion, enter `msiexec /i "DesktopNotifier.msi" /qn` and press the **Enter** key.
- **New Location.** If you want to install the InformaCast Desktop Notifier with a new location (instead of `C:\Program Files (x86)\Singlewire\DesktopNotifier`) and the default value of DNS for retrieving the speaker configuration file from InformaCast Fusion, enter `msiexec /i "DesktopNotifier.msi" /qn INSTALLDIR="<C:\New\Location>"`, where `<C:\New\Location>` is replaced with the path to your new location, and press the **Enter** key.
- **SLP.** If you want to install the InformaCast Desktop Notifier with its default location of `C:\Program Files (x86)\Singlewire\DesktopNotifier`, but use SLP to retrieve the speaker configuration file from InformaCast Fusion, enter `msiexec /i "DesktopNotifier.msi" /qn LOCATOR_TYPE="SLP"` and press the **Enter** key.
- **New Location and SLP.** If you want to install the InformaCast Desktop Notifier with a new location (instead of `C:\Program Files (x86)\Singlewire\DesktopNotifier`) and use SLP to retrieve the speaker configuration file from InformaCast Fusion, enter `msiexec /i "DesktopNotifier.msi" /qn INSTALLDIR="<C:\New\Location>" LOCATOR_TYPE="SLP"` and press the **Enter** key.
- **Static.** If you want to install the InformaCast Desktop Notifier with its default location of `C:\Program Files (x86)\Singlewire\DesktopNotifier`, but use a static IP address to retrieve the speaker configuration file from InformaCast Fusion, enter `msiexec /i "DesktopNotifier.msi" /qn LOCATOR_TYPE="STATIC" STATICURL="http://<InformaCast Fusion IP Address>:8081/InformaCast/resources/"`, where `<InformaCast Fusion IP Address>` is replaced with the InformaCast Fusion on-premises server's actual IP address, and press the **Enter** key.

If you're using InformaCast Fusion in a distributed activation environment, you can configure up to 11 other IP addresses, in which case you'd enter **msiexec /i "DesktopNotifier.msi" /qn LOCATOR_TYPE="STATIC" STATICURL="http://<InformaCast Fusion IP Address Primary>:8081/InformaCast/resources/" STATICURL1="http://<InformaCast Fusion IP Address Secondary>:8081/InformaCast/resources/"**, where <InformaCast Fusion IP Address Primary> is replaced with the IP address of your primary on-premises server and <InformaCast Fusion IP Address Secondary> is replaced with the IP address of your secondary on-premises server, and press the **Enter** key.

- **New Location and Static.** If you want to install the InformaCast Desktop Notifier with a new location (instead of C:\Program Files (x86)\Singlewire\DesktopNotifier) and use a static IP address to retrieve the speaker configuration file from InformaCast Fusion, enter **msiexec /i "DesktopNotifier.msi" /qn INSTALLDIR="<C:\New\Location>" LOCATOR_TYPE="STATIC" STATICURL="http://<InformaCast Fusion IP Address>:8081/InformaCast/resources/"**, where <C:\New\Location> is replaced with the path to your new location and <InformaCast Fusion IP Address> is replaced with the InformaCast Fusion on-premises server's actual IP address, and press the **Enter** key.

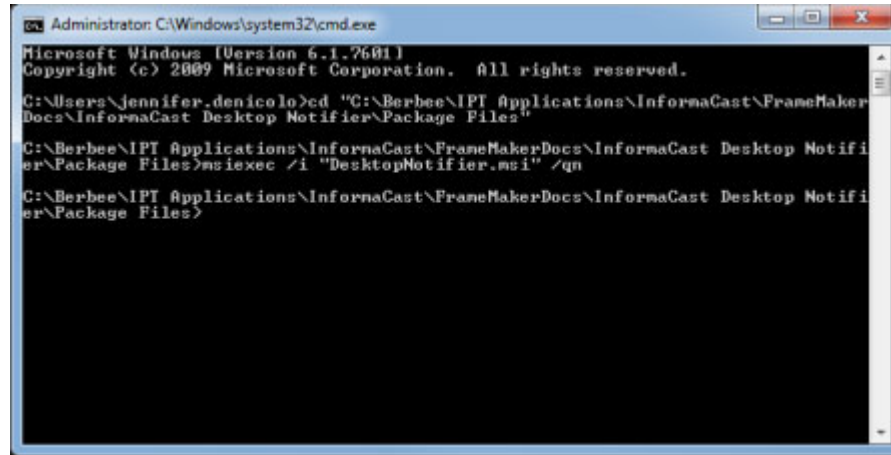
If you're using InformaCast Fusion in a distributed activation environment, you can configure up to 11 other IP addresses, in which case you'd enter **msiexec /i "DesktopNotifier.msi" /qn INSTALLDIR="<C:\New\Location>" LOCATOR_TYPE="STATIC" STATICURL="http://<InformaCast Fusion IP Address Primary>:8081/InformaCast/resources/" STATICURL1="http://<InformaCast Fusion IP Address Secondary>:8081/InformaCast/resources/"**, where <InformaCast Fusion IP Address Primary> is replaced with the IP address of your primary on-premises server and <InformaCast Fusion IP Address Secondary> is replaced with the IP address of your secondary on-premises server, and press the **Enter** key.



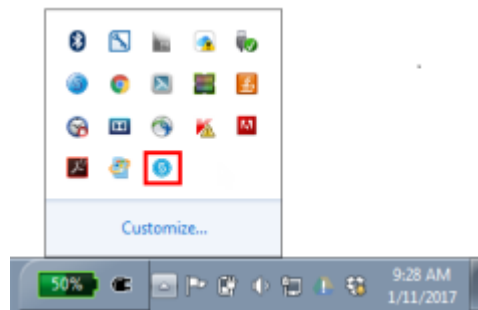
Tip

If you want to install the desktop shortcut, enter a space and append **INSTALLDESKTOPSHORTCUTS=1** following the **qn** for a default installation or after the last set of quotes in any of the other installations. For example, for a new location with a static URL, you'd enter **msiexec /i "DesktopNotifier.msi" /qn INSTALLDIR="<C:\New\Location>" LOCATOR_TYPE="STATIC" STATICURL="http://<InformaCast Fusion IP Address>:8081/InformaCast/resources/" INSTALLDESKTOPSHORTCUTS=1**, where <C:\New\Location> is replaced with the path to your new location and <InformaCast Fusion IP Address> is replaced with the InformaCast Fusion on-premises server's actual IP address, and press the **Enter** key.

The Command window refreshes and the InformaCast Desktop Notifier is installed.



The Singlewire logo will appear in your Taskbar, which is in the lower right corner of your screen.



The InformaCast Desktop Notifier will also be available through your Windows **Start** menu, and if you selected the **Create a shortcut for this program on the desktop** checkbox, the InformaCast Desktop Notifier icon will appear on your desktop. There will also be a Singlewire folder added to your file structure: C:\Program Files (x86)\Singlewire\DesktopNotifier.

Install the InformaCast Desktop Notifier En Masse

If you'd like to install the InformaCast Desktop Notifier on multiple machines without being prompted for any information, you can perform a silent install through Group Policy, wherein you install the InformaCast Desktop Notifier with pre-defined settings. If you'd like to perform individual installations, see "Install the InformaCast Desktop Notifier Individually" on page 10.

Before installing the InformaCast Desktop Notifier en masse, you should have followed the steps in:

- "Configuring InformaCast Fusion" on page 19
- "Download the Installation Files" on page 9

Group Policy, in conjunction with the DesktopNotifier.msi, allows you to perform silent installations of the InformaCast Desktop Notifier. Configuring Group Policy for your environment is solely your responsibility, but more information can be found at:

- support.microsoft.com/kb/816102
- technet.microsoft.com/en-us/windowsserver/bb310732.aspx

Now that you've installed the InformaCast Desktop Notifier, you'll need to configure it.



Configuring InformaCast Fusion

Configuring InformaCast Fusion for use with the InformaCast Desktop Notifier involves establishing communication between the computers running InformaCast Desktop Notifier and InformaCast Fusion and performing various administrative functions.

-
- Step 1** Establish communication between InformaCast Fusion and computers running the InformaCast Desktop Notifier in one of two ways:
- [Automatically add computers running the InformaCast Desktop Notifier to InformaCast Fusion](#)
 - [Manually add computers running the InformaCast Desktop Notifier to InformaCast Fusion](#)
- Step 2** Perform administrative functions on added InformaCast Desktop Notifier instances:
- [Edit the details of InformaCast Desktop Notifier instances](#)
 - [Test InformaCast Desktop Notifier instances](#)
 - [View the InformaCast Desktop Notifier's status](#)
 - [Reboot the InformaCast Desktop Notifier](#)
 - [Delete InformaCast Desktop Notifier instances from InformaCast Fusion](#)
-



Configuring the InformaCast Desktop Notifier's Settings

The InformaCast Desktop Notifier has several configurable settings that can be accessed either through the InformaCast Fusion user interface, a speaker properties file, or a customizable text file.

Modify Settings with the InformaCast Fusion User Interface

Settings modified through the InformaCast Fusion user interface are documented in the InformaCast Fusion Help System, and they include:

- [Customizing the Notification window with a notification profile's **Desktop/IP Phone** tab](#)
- [Setting the display status of the Clear and Exit commands for users' menus and optionally adding a custom logo to replace the default Singlewire logo](#)



Note

If you make any changes to your Notification window, [send a test notification](#) to ensure that your changes were incorporated.

Modify Settings with the Speaker Properties File

Outside of the InformaCast Fusion user interface, you can also modify a speaker properties file for other InformaCast Desktop Notifier configuration settings:

- “Set the Number of Concurrent Notification Windows” on page 21
- “Determine Speaker Configuration File Retrieval Method” on page 22
- “Allow Reconfiguration of the InformaCast Desktop Notifier” on page 23
- “Determine the SLP Scope for the InformaCast Desktop Notifier” on page 25
- “Set the Port Number for the InformaCast Desktop Notifier” on page 25
- “Set the MAC Address of the InformaCast Desktop Notifier” on page 26
- “Set the Network Interface for the InformaCast Desktop Notifier” on page 26
- “Configure Application Updates for Users” on page 26
- “Add a Domain Name to the Reported Name Rule Filter” on page 28

Before making any configuration changes through the speaker properties file, you should know how to access it and save it appropriately for making any configuration changes.

Access the Speaker Properties File

When modifying the InformaCast Desktop Notifier's settings with its speaker properties file, *where* you access the file determines its name and relevance:

File Name	File Location
Spel.properties.sample	C:\Program Files (x86)\Singlewire\DesktopNotifier
Spel.properties	C:\ProgramData\Singlewire\DesktopNotifier

Due to the similar name, yet disparate locations, the Spel.properties.sample file in the Program Files (x86) subdirectory will be referred to as the “speaker properties file,” and the Spel.properties file in the ProgramData subdirectory will be referred to as the “speaker properties overrides file.”

The speaker properties overrides file will override anything set in the Spel.properties.sample file.

Step 1 Navigate to C:\Program Files (x86)\Singlewire\DesktopNotifier.

Step 2 Open the Spel.properties.sample file in your preferred text editor.

Step 3 Save it as Spel.properties.

Saving it in this manner means that your default Spel.properties.sample file is always available as a backup in case of errors in your changes.

Also, until the Spel.properties.sample file is saved as Spel.properties, the InformaCast Desktop Notifier won't read it.

Set the Number of Concurrent Notification Windows

If notifications sent to InformaCast Desktop Notifier instances are not cleared, e.g. a user doesn't close each Notification window after reading the notification, multiple Notification windows will appear on the user's screen until the maxwindows parameter is met. Once the maxwindows parameter is met, the oldest Notification window will be replaced by newer notifications' content. By default, the maximum number of concurrent windows is set to 50, but you can limit or expand that parameter.

Step 1 Access the Spel.properties file (if this is your first time opening it, follow the steps in “Access the Speaker Properties File” on page 21).

Step 2 Scroll to the line:

```
#client.maxwindows=50
```

Step 3 Remove the # preceding **client.maxwindows** and replace the default value of **50** with a numeric value to suit your environment.



Note The highest value accepted for this parameter is 100. Any value over 100 causes the InformaCast Desktop Notifier to automatically reset the parameter to 50.

Step 4 Save your changes to the speaker properties file.

- Step 5** Restart each InformaCast Desktop Notifier to pick up the speaker properties file changes. See [Reboot the InformaCast Desktop Notifier](#) for more information.

Determine Speaker Configuration File Retrieval Method

InformaCast Desktop Notifier instances obtain their configuration, which includes the location of the InformaCast Fusion on-premises server, their registration interval, their remote logging configuration, etc., from a file called “InformaCastSpeaker.cfg,” which is typically located in /usr/local/singlewire/InformaCast/web/resources. This file can be retrieved from InformaCast Fusion itself using the Domain Name System (DNS) or Service Location Protocol (SLP), or you can statically set the IP address (or addresses as is the case with distributed activation) to which InformaCast Desktop Notifier instances look for the file. Without the InformaCastSpeaker.cfg file, InformaCast Desktop Notifier instances cannot fully register with InformaCast Fusion.

DNS is the most seamless option of the three because you most likely have DNS set up already and it is not dependent upon multicast being enabled across your network. SLP is the next option, but if multicast isn't configured correctly on the network, the InformaCast Desktop Notifier will not work properly. You might also choose a static URL over DNS and SLP if you want to specify a specific on-premises server from a pool of on-premises servers from which to pull the speaker configuration file.

During your installation of the InformaCast Desktop Notifier, you selected your retrieval method, but you may want to change it post installation.

- Step 1** Access the Spel.properties file (if this is your first time opening it, follow the steps in “Access the Speaker Properties File” on page 21).

- Step 2** Scroll to the following lines:

```
# The type of configuration to use (default is DNS). DNS uses SRV RR values
# as defined in RFC2782 and RFC6335. The service name is 'informacast' and
# protocol is 'tcp'. An example of load balancing configuration requests with
# two servers with a search domain of 'example.com' is as follows (name TTL
# class SRV priority weight target):
# _informacast._tcp.example.com. 86400 IN SRV 10 10 8081 fusion1.example.com.
# _informacast._tcp.example.com. 86400 IN SRV 10 10 8081 fusion2.example.com.
#
# If SLP is used, it is dynamic, but the InformaCast server must allow that.
#
# If STATIC is used, one or more URLs are provided (the relative path must
# also match if DNS is used). The path should name a directory that includes
# the InformaCastSpeaker.cfg (or MAC address specific) file.
#endpoint.configuration.locator.type=DNS
#endpoint.configuration.locator.type=SLP
#endpoint.configuration.locator.type=STATIC
```

DNS is used by default and requires no changes to be made.

- Step 3** Use SLP by removing the # preceding `endpoint.configuration.locator.type=SLP` and skip to Step 7.

- Step 4** Use a static URL by removing the `#` preceding `endpoint.configuration.locator.type=STATIC`. Then scroll to the following lines:

```
# The STATIC configuration locator type whose use is specified above will use
# this URL for retrieving endpoint configurations. The IP address and port
# should match the server configuration that you are using.
#static.configuration.url=http://10.0.0.2:8081/InformaCast/resources/
```

- Step 5** Remove the `#` preceding `static.configuration.url` and replace `10.0.0.2` with the IP address of your InformaCast Fusion on-premises server.

If you're *not* using InformaCast Fusion in a distributed activation environment, skip to Step 7. If you *are* using InformaCast Fusion in a distributed activation environment, scroll to the following lines:

```
# When using the STATIC configuration locator type, you may specify
# up to 11 additional servers to pull the configuration from. These
# are typically your subscriber servers in your resiliency cluster.
#static.configuration.url1=
#static.configuration.url2=
#static.configuration.url3=
#static.configuration.url4=
#static.configuration.url5=
#static.configuration.url6=
#static.configuration.url7=
#static.configuration.url8=
#static.configuration.url9=
#static.configuration.url10=
#static.configuration.url11=
```

The `static.configuration.url1-11` properties allow you to enter up to 11 other InformaCast Fusion IP addresses.

- Step 6** Remove the `#` preceding each `static.configuration.url` line that you plan to use and enter the IP address of the InformaCast Fusion on-premises server from which you want the InformaCast Desktop Notifier to retrieve the `InformaCastSpeaker.cfg` file after the `=`.
- Step 7** Save your changes to the speaker properties file.
- Step 8** Restart each InformaCast Desktop Notifier to pick up the speaker properties file changes. See [Reboot the InformaCast Desktop Notifier](#) for more information.

Allow Reconfiguration of the InformaCast Desktop Notifier

The InformaCast Desktop Notifier can detect network changes on computers running its application, e.g. IP address changes through DHCP, statically-assigned IP addresses in OS preferences, disabled network adapters, etc., re-register those computers, and reconfigure them with updated policy information that you manually placed in your speaker properties file on your on-premises server(s), such as new logos, modified banner text, different color scheme, etc. The reconfiguration process differs slightly between computers using DNS or SLP to register with InformaCast Fusion versus those using a list of static IP addresses.

If you're using DNS or SLP to connect your InformaCast Desktop Notifier instances to InformaCast Fusion, when network changes occur and the `endpoint.configuration.reconfigurable` parameter is set to "true," your computers will re-run DNS or SLP discovery, discover the InformaCast Fusion on-premises servers, query them for the `InformaCastSpeaker.cfg` file, and pull from the first

successfully-responding InformaCast Fusion on-premises server the list of servers with which to register. Once registered, your computers will also re-read their policy information and change their configuration from this same server if any changes have occurred. If the `endpoint.configuration.reconfigurable` parameter is set to “false” and network changes occur, your computers won’t re-run DNS or SLP discovery—they will re-register with the last-known list of InformaCast Fusion on-premises servers—and they won’t reconfigure themselves.

If you’ve configured static IP addresses for your InformaCast Desktop Notifier instances, when network changes occur and the `endpoint.configuration.reconfigurable` is set to “true,” your computers will re-register with their list of configured InformaCast Fusion on-premises servers. Once registered, your computers will also re-read their policy information and change their configuration if any changes have occurred from the same first-successfully-responding InformaCast Fusion server with which it was statically configured. If `endpoint.configuration.reconfigurable` is set to false and network changes occur, your computers will re-register with their list of InformaCast Fusion on-premises servers, but they won’t reconfigure themselves.


Note

Re-registration *always* occurs. The `endpoint.configuration.reconfigurable` parameter only affects whether new InformaCast Fusion on-premises servers will be discovered (DNS and SLP only) and policy information updated.


Caution

When you’re using DNS or SLP as your speaker configuration file retrieval method and the `endpoint.configuration.reconfigurable` parameter is set to “true,” re-discovery of InformaCast Fusion on-premises servers and reconfiguration can take some time. If you have an environment that remains relatively stagnant, e.g. you don’t change the list of servers to register with based on distributed activation configuration or manually update your speaker properties file outside of the InformaCast Fusion user interface, you may want to set the `endpoint.configuration.reconfigurable` parameter to “false.”

Step 1 Access the `Spel.properties` file (if this is your first time opening it, follow the steps in “Access the Speaker Properties File” on page 21).

Step 2 Scroll to the following line:

```
#endpoint.configuration.reconfigurable=true
```

InformaCast Desktop Notifier instances can reconfigure themselves by default.

Step 3 Disable this reconfiguration ability by removing the `#` preceding `endpoint.configuration.reconfigurable=true` and replace `true` with `false`.

Step 4 Save your changes to the speaker properties file.

Step 5 Restart each InformaCast Desktop Notifier to pick up the speaker properties file changes. See [Reboot the InformaCast Desktop Notifier](#) for more information.

Determine the SLP Scope for the InformaCast Desktop Notifier

The `endpoint.configuration.locator.scope` parameter is used for logically differentiating groupings of SLP services or specifying an explicit search value for DNS SRV resource records. Changing the `endpoint.configuration.locator.scope` parameter should only occur in lab conditions, and in general the parameter should remain commented out of the speaker properties file.

If you're using DNS to retrieve the `InformaCastSpeaker.cfg` file, you can override the service name, protocol, and PC search suffixes by modifying this parameter. By default, the service name and protocol are `_informacast_tcp`, and your search suffixes are most likely set by your DHCP administrator.



Caution

If you're using SLP to retrieve the `InformaCastSpeaker.cfg` file and you change this parameter, InformaCast Desktop Notifier instances will not be able to communicate with InformaCast Fusion via SLP. [Contact Singlewire Support](#) if you'd like to change this parameter's value. They will evaluate your need and walk you through possible solutions.

Step 1 Access the `Spel.properties` file (if this is your first time opening it, follow the steps in "Access the Speaker Properties File" on page 21).

Step 2 Scroll to the following lines:

```
# Used to differentiate groupings of SLP services or specify an explicit
# search value for DNS SRV resource records (overrides the service name,
# protocol, and PC search domains). When SLP is used, it should always be
# set to 'Berbee Applications', the scope desktops expect (this is also the
# default value if not set). Change this value only in lab conditions.
#
# SLP Example:
#endpoint.configuration.locator.scope=Berbee Applications
# DNS Example:
#endpoint.configuration.locator.scope=_informacast._tcp.example.com
```

Step 3 Remove the `#` preceding `endpoint.configuration.locator.scope` under DNS Example and replace `_informacast._tcp.example.com` with your own information, e.g. your own service name, protocol, and PC search suffixes, etc.

Step 4 Save your changes to the speaker properties file.

Step 5 Restart each InformaCast Desktop Notifier to pick up the speaker properties file changes. See [Reboot the InformaCast Desktop Notifier](#) for more information.

Set the Port Number for the InformaCast Desktop Notifier

By default, the InformaCast Desktop Notifier listens for notifications from InformaCast Fusion on port 8082. If this port isn't open on your firewall, InformaCast Desktop Notifier instances won't be able to receive notifications from InformaCast Fusion. If you have a port conflict, you may need to change the port that the InformaCast Desktop Notifier uses by modifying the `endpoint.port.number` parameter in the speaker properties file.

[Contact Singlewire Support](#) if you'd like to change this port number. They will evaluate your need and walk you through possible solutions.

Set the MAC Address of the InformaCast Desktop Notifier

The MAC address of an InformaCast Desktop Notifier instance is essentially its unique ID; it is sent with all server requests to identify the computer. By default, the MAC address is set based on the first found network interface, but it is possible to set a specific MAC address instead by modifying the `endpoint.hardware.address` parameter in the speaker properties file. By default, this setting is ignored, but it can be uncommented to apply.

For example, if you're using non-persistent desktops in a VDI environment or creating a single base image that you will be reusing on multiple computers, you should uncomment the following line and enter dynamic after the =

```
#endpoint.hardware.address=_MAC_ADDRESS_
```

When you enable this dynamic option, no MAC address will be saved upon program startup; however, for computers with multiple network interface cards, that same computer may be seen as multiple devices depending on which interface is active. In those scenarios, you may want to save the MAC address on subsequent starts for consistency. On your initial installation, you can choose to defer initial program startup and configuration rather than configure any value for a MAC address (see Step 5 on page 12 in "Install Using the InformaCast Desktop Notifier Installer"). If you are creating a shared base image, this option may be better (your base image is taken for new installation on computers where it's desirable to have a unique and consistent device identifier for InformaCast Fusion). If you are upgrading your image from a prior install, it is best to use this option after first performing an uninstall of the old version.

[Contact Singlewire Support](#) if you'd like to set a specific MAC address. They will evaluate your need and walk you through possible solutions.

Set the Network Interface for the InformaCast Desktop Notifier

By default, the InformaCast Desktop Notifier will use all network interfaces to listen for HTTP requests from the on-premises server; however, this setting can be modified to limit those interfaces to only one, e.g. an Ethernet card, by modifying the `endpoint.ip.address` parameter in the speaker properties file. By default, this setting is ignored, but it can be uncommented to apply.

[Contact Singlewire Support](#) if you'd like to limit your network interfaces. They will evaluate your need and walk you through possible solutions.

Configure Application Updates for Users

The `client.autoupdateurl` parameter defines the URL where InformaCast Desktop Notifier instances will look for any updates to the application.

The InformaCast Desktop Notifier uses NetSparkle (netsparkle.codeplex.com/), to supply automatic update framework, allowing you to queue updates of the InformaCast Desktop Notifier application for your users to install. By default, this parameter is set to none. Once you have configured NetSparkle, you can update this parameter with your specific URL.

In an example situation, you make your DesktopNotifier.msi file available to your users online. Your users would install the InformaCast Desktop Notifier, and when you have updates to the application, e.g. a new version of the InformaCast Desktop Notifier, you'd place the updated DesktopNotifier.msi file on the NetSparkle server where InformaCast Desktop Notifier instances would see the update and prompt their users to install it.

**Note**

Properly configuring NetSparkle for your environment is solely your responsibility. More information on configuring NetSparkle is available at netsparkle.codeplex.com/documentation and netsparkle.codeplex.com/wikipage?title=How%20to%20generate%20a%20DSA%20signature.

Step 1 Go to netsparkle.codeplex.com/, download NetSparkle, and configure it for your environment.

Step 2 Access the Spel.properties file (if this is your first time opening it, follow the steps in “Access the Speaker Properties File” on page 21).

Step 3 Scroll to the following lines:

```
# The Sparkle appcast URL
#client.autoupdateurl=none
```

Step 4 Remove the # preceding **client.autoupdateurl=none** and replace **none** with the actual URL of your NetSparkle server.

Step 5 Save the speaker properties file.

The InformaCast Desktop Notifier is now configured to look for your NetSparkle server and periodically check for updates.

Step 6 Download or create the appcast.xml file from your NetSparkle server and open it with your preferred text editor.

```
<?xml version="1.0" encoding="utf-8"?>
<rss
version="2.0"
xmlns:sparkle="http://www.andymatuschak.org/xml-namespaces/sparkle"
xmlns:dc="http://purl.org/dc/elements/1.1/"> <channel>
  <title>InformaCast Desktop Notifier</title>
  <link>https://<YourNetSparkleServerURL>/Windows-appcast.xml</link>
  <description>Most recent changes with links to updates.</description>
  <language>en</language>
  <item>
    <title>Version Update Test Title</title>
    <sparkle:releaseNotesLink>
https://<YourNetSparkleServerURL>/release-notes.html
    </sparkle:releaseNotesLink>
    <pubDate>Fri, 15 Dec 2017 11:16:11 +0000</pubDate>
    <enclosure
url="https://<YourNetSparkleServerURL>/DesktopNotifier.msi"
sparkle:version="4.1.1.57"
length="8884224"
type="application/x-msi"

sparkle:dsaSignature="iLz6T3wv0Xvoaabc7uuEeeC3m1Yoy9nGp0fBQj0PuYqgzRhQJRTtig
==" />
    </item>
  </channel>
</rss>
```

- Step 7** Ensure that the link associated with `<sparkle:releaseNotesLink>` contains the updated release notes information that you want to distribute to your users, e.g.
`<YourNetSparkleServerURL>/release-notes.html`.

The following is an example of the contents in `release-notes.html`, a link that is shared across multiple appcast RSS/XML files:

```
<html>
<title>This is the title</title>
<body>
Version 4.1.1 adds some great new features such as:
<ul>
<li>New menu option to check for updates if configured appropriately.</li>
<li>The ability to force check for updates even if <i>Skip this version</i>
was previously chosen.</li>
</ul>
</body>
</html>
```

- Step 8** Ensure that the text in quotes following `<enclosure url=` is the actual URL of your NetSparkle server, e.g. `url="https://<YourNetSparkleServerURL>/DesktopNotifier.msi"`.
- Step 9** Replace the text in quotes following `sparkle:version=` with the actual version of the InformaCast Desktop Notifier.



Note The version number must increment or InformaCast Desktop Notifier instances will not detect the update.

- Step 10** Upload the modified `appcast.xml` and `DesktopNotifier.msi` files to the NetSparkle server. Your InformaCast Desktop Notifier is now set to automatically update when new versions of the `DesktopNotifier.msi` file are placed on the NetSparkle server.
- Step 11** Restart each InformaCast Desktop Notifier to pick up the speaker properties file changes. See [Reboot the InformaCast Desktop Notifier](#) for more information.

Add a Domain Name to the Reported Name Rule Filter

Optionally, you can prepend a domain name to the Reported Name rule filter. In environments with overlapping computer names, this can prove helpful in better identifying an endpoint, e.g. if you use Active Directory child domains or trust relationships.

There are three options when configuring the Reported Name rule filter:

- **None.** No additional domain information is available for the Reported Name rule filter. This is the default option.
- **User.** The endpoint domain for the logged on user, which will include the connecting client device in a VDI environment (if available), and may differ from the user's domain for their login in VDI session. In a non-VDI environment, this value is obtained directly from the computer running the InformaCast Desktop Notifier.

- **Client.** The domain to which the client device is joined, which may differ from the joined domain of the VDI session. This option is best utilized where all computers are joined to domains and local/non-domain accounts are not used. In a non-VDI environment, this value is obtained directly from the computer running the InformaCast Desktop Notifier.

Support for user and client options is dependent upon your VDI vendor's support. The chart in the following table may aid you for your environment (Windows PC and Mac PC are local logins while Microsoft RDS, VMware Horizon, and Citrix are remote logins):

Value	Windows PC	MacOS PC	Microsoft RDS	VMware Horizon	Citrix
User	Yes	Yes	No	Yes, with restrictions	No
Client	Yes	Yes	No	Yes, with restrictions	No



Note For all cells with 'No,' the only domain information available is for the established VDI session (user login/domain name for the VDI rather than user login or client device domain name from the connecting device). Since these values may differ in practice, no value is assumed.

Step 1 Access the `Spel.properties` file (if this is your first time opening it, follow the steps in "Access the Speaker Properties File" on page 21).

Step 2 Scroll to the following lines:

```
# Allowed options for the domain name component (Active Directory or Workgroup)
# in the reported name field include:

# none - No domain information is provided (default), only the machine PC name
#       is used for the reported name field.
# user - Prepend the domain of the person who is logged in (for a VDI, this is
#       the logged on user's domain from the device they connect from if
#       available).
# client - Prepend the domain the PC is joined to (for a VDI, this is from the
#       device they connect from if available).
#client.domain.source=none
```

None is used by default.

Step 3 Configure the display of the Reported Name rule filter by removing the `#` preceding `client.domain.source=none` and replacing `none` with one of the following values:

- **User.** The endpoint domain for the logged on user, which will include the connecting client device in a VDI environment (if available), and may differ from the user's domain for their login in VDI session. In a non-VDI environment, this value is obtained directly from the computer running the InformaCast Desktop Notifier.
- **Client.** The domain to which the client device is joined, which may differ from the joined domain of the VDI session. This option is best utilized where all computers are joined to domains and local/non-domain accounts are not used. In a non-VDI environment, this value is obtained directly from the computer running the InformaCast Desktop Notifier.

Step 4 Save your changes to the speaker properties file.

- Step 5** Restart each InformaCast Desktop Notifier to pick up the speaker properties file changes. See [Reboot the InformaCast Desktop Notifier](#) for more information.

Ignore Specific MAC Addresses with a Customizable Text File

Several software VPN vendors use the same MAC address when you install their software across all the computers in your environment. The MAC address is normally a unique identifier tied to the physical network interface of a computer and is also used to uniquely identify an InformaCast Desktop Notifier instance to InformaCast Fusion. If multiple computers in an environment share the same MAC address, the last one that registered will be the only one to receive a notification.

The following MAC addresses are ignored by default:

- 02004c4f4f50 (Microsoft Loopback Adapter)
- f4cfe24cbe50 (Cisco AnyConnect VPN Adapter)
- 00059a3c7a00 (Cisco AnyConnect VPN Adapter)
- 0205857FEB80 (Juniper Networks Virtual Adapter)

If this list is insufficient or doesn't meet your needs, you may add to it.

- Step 1** Open your preferred text editor.

- Step 2** Enter the MAC addresses you want to ignore, one per line:

```
# Ignore the same MAC addresses that are by default excluded

02004c4f4f50
f4cfe24cbe50
00059a3c7a00
0205857FEB80
acde48001122
```

You can place comments in this file. Precede them by a pound sign (#).

```
# This is a custom value for our XYZ VPN Software Adapter
0123456789ab
```

Colons (:), spaces, and dashes (-) will be removed.

If the resultant value is 12 characters and looks like a MAC address, e.g. characters such as a-z, A-Z, or 0-9, InformaCast Desktop Notifier will add it to a list of exclusions.

When the InformaCast Desktop Notifier is started for the first time, the values included in this file will be ignored from the possible MAC addresses chosen from your network adapters.

- Step 3** Save the file as **MACAddressExclusions.txt** in the installation root directory (typically located in C:\Program Files (x86)\Singlewire\DesktopNotifier).



Note You will need elevated privileges to save this file if you're using the default installation directory permissions.

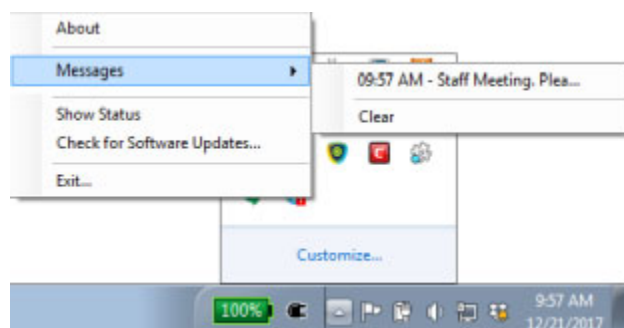
- Step 4** Restart each InformaCast Desktop Notifier to pick up the MAC address exclusions. See [Reboot the InformaCast Desktop Notifier](#) for more information.
-



Using the InformaCast Desktop Notifier

Singlewire's InformaCast Desktop Notifier has a minimal user interface; all of its commands are available by clicking the **Singlewire** icon in the Taskbar.

The InformaCast Desktop Notifier menu (shown in the following picture) provides access to an About window and Status report, and houses the commands to exit the application altogether as well as two sub-menu options under **Messages** to see your received notifications and clear those notifications from your screen. If you've configured InformaCast Desktop Notifier instances to look for any updates to the application, you will also have a **Check for Software Updates** option (see "Configure Application Updates for Users" on page 26 for more information).



The commands available to you are:

- About ("About the Desktop Notifier" on page 33)
- Show Status ("View the InformaCast Desktop Notifier's Status" on page 33)
- Check for Software Updates ("Check for Software Updates" on page 33)
- Messages ("Receive and Respond to Notifications" on page 36)
- Clear ("Clear Notifications" on page 39)
- Exit ("Exit the InformaCast Desktop Notifier" on page 39)



Note

Unlisted in the InformaCast Desktop Notifier menu is the ability to stop/start notifications through your Action Center (see "Stop/Start Notifications" on page 35).

Receiving and responding to notifications requires no interaction with the InformaCast Desktop Notifier's menu. All of your interactions will take place within the Notification window (see "Receive and Respond to Notifications" on page 36) or through one of the other initial display types, e.g. Toast, Ticker, or Badge.

If you have further questions about the InformaCast Desktop Notifier, check the [Support Community](#) for a solution.

About the Desktop Notifier

Selecting **About** from the InformaCast Desktop Notifier menu allows you to view your version information and a summary of the application (see picture). You can also access links to the software license agreement, the open source libraries used, and the uninstallation procedure (see “Uninstall the InformaCast Desktop Notifier” on page 40 for more information). Click the **X** button to exit this window.

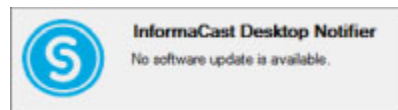


View the InformaCast Desktop Notifier’s Status

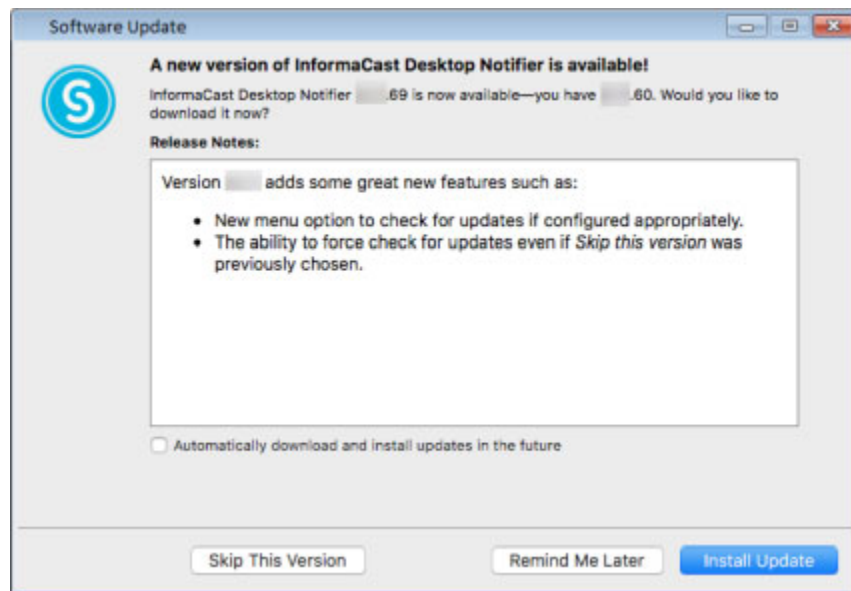
Selecting **Show Status** will open a webpage that contains the Status report, which can help you when troubleshooting issues with the InformaCast Desktop Notifier. The Status report can also be accessed through [InformaCast Fusion](#).

Check for Software Updates

If you’ve configured InformaCast Desktop Notifier instances to look for updates to the application (see “Configure Application Updates for Users” on page 26), the **Check for Software Updates** option will appear in the InformaCast Desktop Notifier menu. When you select it, if there are no updates to the software, a pop-up dialog box will inform you:



If there are available updates, the Software Update pop-up window will appear and you can choose to skip the update, be reminded of it later, or install it:








You can also choose to have the InformaCast Desktop Notifier automatically download and install its own updates (once they're detected) in the future.

Stop/Start Notifications

If you'd like to stop notifications from being displayed on an InformaCast Desktop Notifier instance while still leaving the InformaCast Desktop Notifier running, go to **Settings | System | Notifications & actions** and scroll down to the *Get notifications from these senders* area.

Get notifications from these senders

Select a sender to see more settings. Some senders might also have their own notification settings. If so, open the sender to change them.

	Cortana On: Banners, Sounds	<input checked="" type="checkbox"/> On
	Get Office On: Banners, Sounds	<input checked="" type="checkbox"/> On
	InformaCast Desktop Notifier On: Banners, Sounds	<input checked="" type="checkbox"/> On
	Java Update Checker On: Banners, Sounds	<input checked="" type="checkbox"/> On
	OneDrive On: Banners, Sounds	<input checked="" type="checkbox"/> On

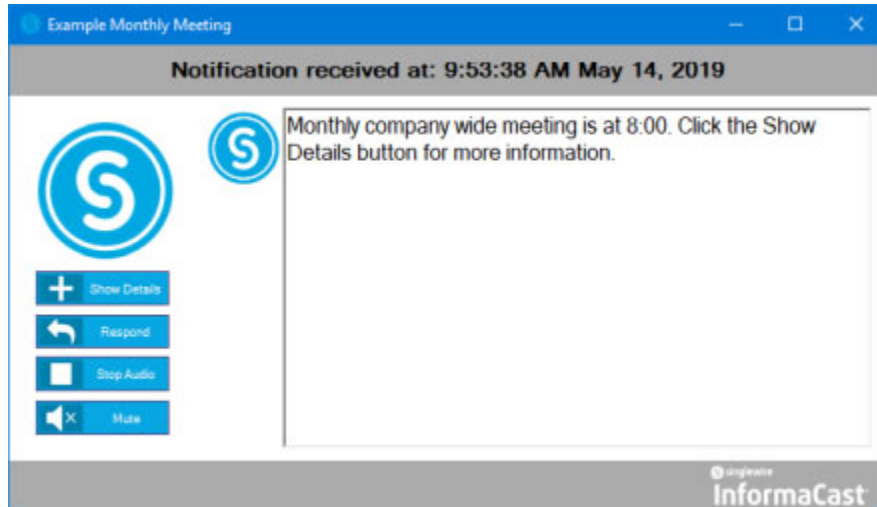
Click the toggle button for InformaCast Desktop Notifier to turn off notifications.

Click the toggle button again to turn notifications back on.

Receive and Respond to Notifications

Depending on your personal settings and the type of notification that has been initiated, when a message template with text and/or audio is sent out to InformaCast Desktop Notifier instances, you will see several possible initial display types similar to the following:

- **Immediate.** The Notification window will display, showing your configured banner text, any images/icons, and the contents of the **Subject** field of the InformaCast Fusion notification. The notification's audio and a sound may play, but that is dependent upon your platform's preferences.

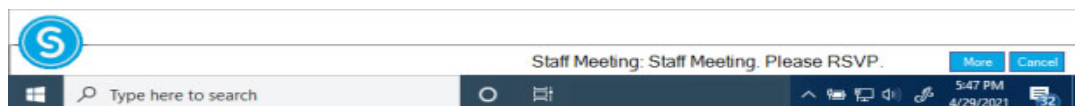


- **Toast.** A small notification pop-up window will display, showing your configured banner text and the contents of the **Subject** field of the InformaCast Fusion notification. The notification's audio and a sound may play, but that is dependent upon your platform's preferences.



Click the notification to display the Notification window.

- **Ticker.** A scrolling banner will display at the bottom of users' screens that contains your configured banner text and the contents of the **Subject** field of the InformaCast Fusion notification. The notification's audio and a sound may play, but that is dependent upon your platform's preferences.



Mouse over the banner to stop it from scrolling. Scroll speed and repetitions are set on a notification profile's **Fusion Server** tab (see [“Add a Notification Profile in the “InformaCast Fusion Installation and User Guide”](#) for more information). Click the banner or **More** button to display the Notification window. Click the **Cancel** button to dismiss the ticker without opening the Notification window.

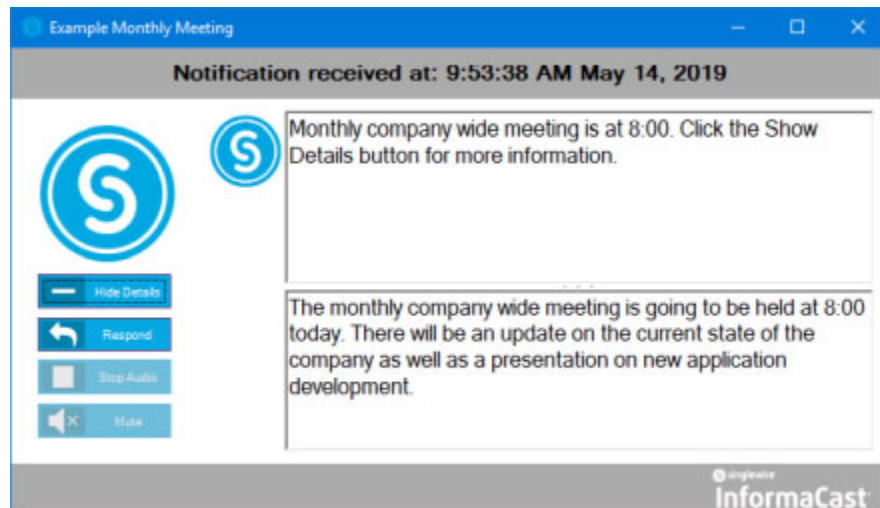
- **Badge.** No initial visual notification will display with the exception of incrementing the number of notifications overlaid on the InformaCast Desktop Notifier's icon in the Task Bar. The notification's audio and a sound may play, but that is dependent upon your platform's preferences.



Click the icon to display the InformaCast Desktop Notifier's menu. Go to **Messages** and select a notification to display the Notification window.

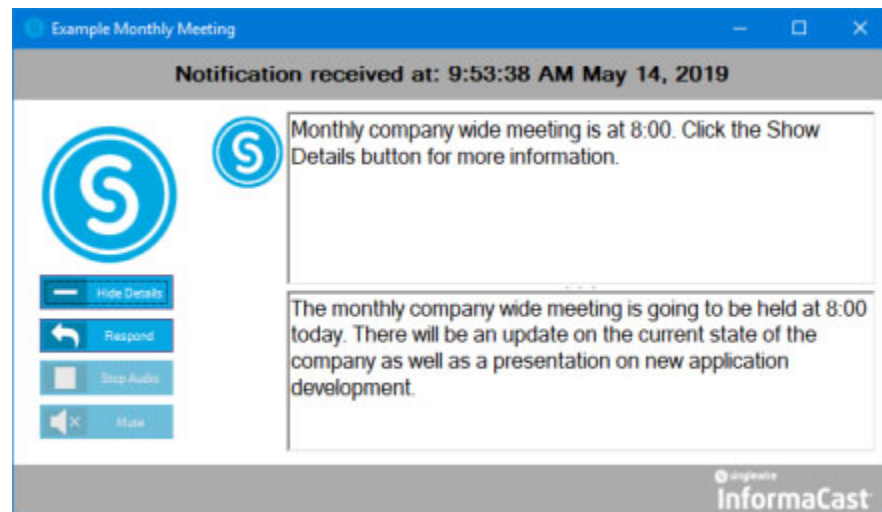
You can also select **Messages** from the InformaCast Desktop menu to bring into focus a specific received notification.

In the following Notification window, the displayed message template has both the **Subject** and **Body** fields configured, as well as a confirmation option selected from the **Confirmation Request** dropdown menu. The **Subject** field's contents are visible immediately in the Notification window, i.e. “Monthly company-wide meeting is at 8:00 a.m. Click the Show Details button for more information.”



While the audio is still running, you can click the **Stop Audio** button to stop the audio as it is playing or the **Mute** button to continue playing the audio, but at a silent volume level. These buttons will gray out and become unavailable once the audio is done playing. If the sent message template does not include audio, e.g. a Text message type, these buttons will not appear.

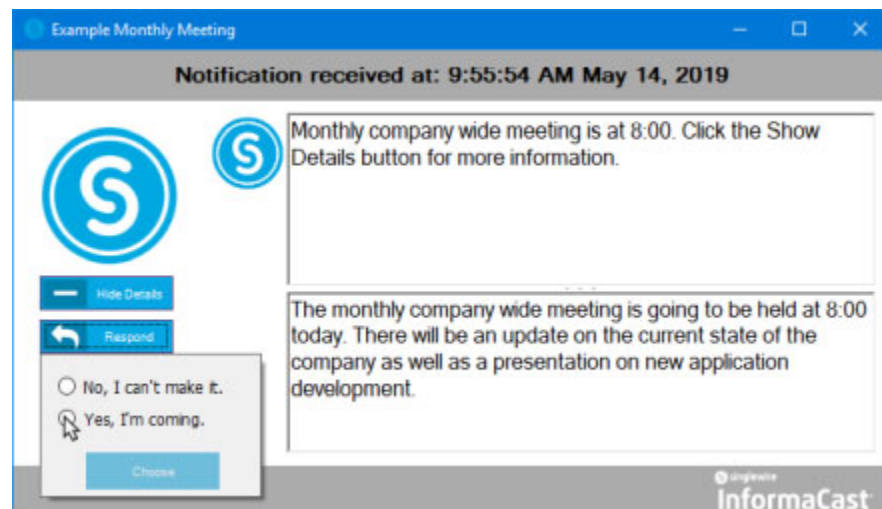
Clicking the **Show Details** button will reveal any additional information, i.e. the contents of the message template's **Body** field:



Hyperlinks of varying formats are supported in both the **Subject** and **Body** fields' contents. For example, singlewire.com, www.singlewire.com, and <http://www.singlewire.com> will all redirect you to Singlewire's website. Email addresses will also be automatically recognized and linked with your platform's default email program.

If the **Body** field of the sent message template is empty, the **Show Details** button will not appear.

If the sent notification has attached confirmation requests, clicking the **Respond** button will reveal any confirmation information and follow-up instructions:



In this example, two possible selections were configured. Select an option and click the **Choose** button to confirm with InformaCast Fusion.

If confirmation requests are not assigned to the sent message template, the **Confirm** button will not appear.

Click the **X** button to close the Notification window.



Note

If you're not receiving the notifications you expect, check your Windows notification settings. Enter **notifications and actions settings** in the Windows **Type here to search** field to open the Notifications & actions window. Ensure that no Windows settings are impeding the delivery of your InformaCast Desktop Notifier notifications.



Tip

For more information on creating notifications that will display on an InformaCast Desktop Notifier instance, please see [“Manage Message Templates”](#) and [“Manage Notification Profiles”](#) in the “InformaCast Fusion Installation and User Guide.”

Clear Notifications

Clear, under **Messages** in the InformaCast Desktop Notifier menu, allows you to clear all locally received notifications. The Action Center also offers the ability to clear broadcasts separately.

Exit the InformaCast Desktop Notifier

Select **Exit** from the InformaCast Desktop Notifier menu to exit and shut down the application.

Start the InformaCast Desktop Notifier again through your desktop shortcut (if possible) or go to **Start** | **All Programs** | **Singlewire** | **InformaCast Desktop Notifier** .

Uninstall the InformaCast Desktop Notifier

Once you've installed the InformaCast Desktop Notifier, you may need to uninstall it at a later date.

- Step 1** Select **About** from the InformaCast Desktop Notifier menu. The About InformaCast Desktop Notifier window appears.



- Step 2** Scroll to the bottom of the About InformaCast Desktop Notifier window and click the **Uninstall the InformaCast Desktop Notifier** link.

- Step 3** Click the **Yes** button on the Windows Installer dialog box.

The InformaCast Desktop Notifier will be removed from your computer along with its associated files.



Note The log for the InformaCast Desktop Notifier will remain on your system. If you want to remove it separately, go to /the **Singlewire** entry under **Applications** in the Event Viewer.

Upgrade the InformaCast Desktop Notifier

In order to stay current with the latest InformaCast Desktop Notifier features, you need to upgrade your instances to the latest version.



Note If you have “Check for Software Updates” on page 33 configured correctly, the InformaCast Desktop Notifier might be checking for newer versions and installing them for you.

- Step 1** Follow the steps in “Download the Installation Files” on page 9 to obtain the latest version of the InformaCast Desktop Notifier’s installation files.

- Step 2** Follow the steps in “Uninstall the InformaCast Desktop Notifier” on page 40.

Failing to uninstall your current version may cause instability in your newer InformaCast Desktop Notifier version.

- Step 3** Follow the steps in “Install the InformaCast Desktop Notifier Individually” on page 10 to upgrade the InformaCast Desktop Notifier using the latest version of the installation files.



Note If you’d like to silently install through Group Policy, please follow your vendor’s guidelines. Configuring Group Policy for your environment is outside the scope of this user guide.



Release Notes

The following sections contain the release notes for the InformaCast Desktop Notifier.

InformaCast Desktop Notifier 14.6.1

The following information pertains to the InformaCast Desktop Notifier 14.6.1.

Announcement

Discontinued Support for 32-bit Windows Environments. The InformaCast Desktop Notifier no longer supports Windows 32-bit environments due to its advanced age and general disuse by customers. Supporting the InformaCast Desktop Notifier in a Windows 32-bit environment has moved to “best effort,” i.e. testing the application in a 32-bit environment has ceased, and if you run into problems, Singlewire Support will only attempt to make the InformaCast Desktop Notifier work in your original environment; any discovered bugs will not be fixed.

InformaCast Desktop Notifier 14.3.1

The following information pertains to the InformaCast Desktop Notifier 14.3.1.

Resolved Issues

- **Installations in Non-English Languages Caused Permissions Issues.** Certain permissions within installations of the InformaCast Desktop Notifier relied on an Active Directory parameter being in the English language; however, non-English language versions of Active Directory used translations of that parameter's name, which caused permissions issues when running the InformaCast Desktop Notifier. The InformaCast Desktop Notifier's installation process has been updated to rely on a parameter that does not change based on the language used by Active Directory, and installations of the InformaCast Desktop Notifier should succeed as expected.
- **Large Numbers of Re-registrations Could Cause a Memory Leak.** In environments with large numbers of InformaCast Desktop Notifier instances, a memory leak was identified, which could eventually lead to an InformaCast Fusion crash, especially during device re-registration due to network configuration changes. The creation and maintenance of HTTP sessions has been improved, and InformaCast Fusion should no longer run out of memory while handling InformaCast Desktop Notifier re-registrations.

InformaCast Desktop Notifier 14.2.1

The following information pertains to the InformaCast Desktop Notifier 14.2.1.

New Feature

- **Newly Excluded MAC Address.** To avoid conflicts in registration with other software vendors using a specific MAC address, the 0205857FEB80 MAC address has been added to the InformaCast Desktop Notifier's exclusions list. No InformaCast Desktop Notifier instance will use this MAC address; it will be automatically skipped during the registration process.

Announcements

- **Ended Support for Pre-configuring Installation.** The process of pre-configuring your installation of the InformaCast Desktop Notifier is no longer being supported due to the difficulty and cost-prohibitive nature inherent in unpacking and repacking the MSI file.
- **Discontinued Support for 32-bit InformaCast Desktop Notifier for VMware Horizon.** The InformaCast Desktop Notifier no longer supports its 32-bit version in the VMware Horizon VDI environment due to VMware dropping support for 32-bit virtual machines.
- **Discontinuing Support for 32-bit Windows Environments.** In an upcoming release, the InformaCast Desktop Notifier will no longer support Windows 32-bit environments due to its advanced age and general disuse by customers. Effective January 2022, supporting the InformaCast Desktop Notifier in a Windows 32-bit environment will move to "best effort," i.e. testing the application in a 32-bit environment will cease, and if you run into problems, Singlewire support will only attempt to make it work in your original environment; any discovered bugs will not be fixed.

InformaCast Desktop Notifier 14.0.1

The following information pertains to the InformaCast Desktop Notifier 14.0.1.

Announcement

Release Version Numbering. InformaCast and InformaCast Fusion both run upon a common platform, and their version numbers largely fall in sync or in direct succession. The InformaCast Desktop Notifier's functionality is largely dependent on InformaCast/InformaCast Fusion's available features, and due to this dependency future releases of the InformaCast Desktop Notifier will now keep in step with InformaCast/InformaCast Fusion's version numbering instead of maintaining its own version path. Version parity should also provide clarity in terms of feature compatibility.

InformaCast Desktop Notifier 12.23.1

The following information pertains to the InformaCast Desktop Notifier 12.23.1.

New Feature

New Ticker Banner Cancel Button. When a notification with the Ticker initial display type is sent to an InformaCast Desktop Notifier instance, the scrolling banner that is displayed now has a **Cancel** button, allowing you to dismiss the ticker without opening the Notification window.

Resolved Issue

Improved InformaCast's Network Change Detection. Previously, when an InformaCast Desktop Notifier instance changed networks from one that did not have access to InformaCast Fusion to one that did, it would not detect InformaCast Fusion's presence until it was manually restarted. The InformaCast Desktop Notifier has been updated to better detect network changes, and it no longer requires a restart when moving from networks without InformaCast Fusion to ones with it.

Announcement

Release Version Numbering. InformaCast and InformaCast Fusion both run upon a common platform, and their version numbers largely fall in sync or in direct succession. The InformaCast Desktop Notifier's functionality is largely dependent on InformaCast/InformaCast Fusion's available features, and due to this dependency future releases of the InformaCast Desktop Notifier will now keep in step with InformaCast/InformaCast Fusion's version numbering instead of maintaining its own version path. Version parity should also provide clarity in terms of feature compatibility.

InformaCast Desktop Notifier 4.8.1

The following information pertains to the InformaCast Desktop Notifier 4.8.1.

Newly Excluded MAC Address. To avoid conflicts in registration with other software vendors using a specific MAC address, the acde48001122 MAC address has been added to the InformaCast Desktop Notifier's exclusions list. No InformaCast Desktop Notifier instance will use this MAC address; it will be automatically skipped during the registration process.

InformaCast Desktop Notifier 4.7.1

The following information pertains to the InformaCast Desktop Notifier 4.7.1.

- **Improved InformaCast Fusion's Network Change Detection.** InformaCast Desktop Notifier instances could generate high loads of requests for speaker configurations, slowing down network speeds. InformaCast Fusion now has a smarter method for determining whether a full reconfiguration is necessary based on enhanced network monitoring that ensures a network change worthy of a full reconfiguration actually occurred, falling back to cached configuration information if not.
- **General Improvements.** Small administrative changes were made to the InformaCast Desktop Notifier's user interface.

InformaCast Desktop Notifier 4.6.1

The following information pertains to the InformaCast Desktop Notifier 4.6.1.

New Features

- **Expanded Support for Microsoft Kiosks.** The latest version of the InformaCast Desktop Notifier now supports kiosks and digital signs on Windows PC Desktop editions.
- **New Minimum .NET Version.** The InformaCast Desktop Notifier requires a minimum of .NET 4.6.2; installing the InformaCast Desktop Notifier will not proceed if this prerequisite is not met.

Announcements

- **Windows 10 Caveats.** Several caveats exist for using Windows 10 in Tablet mode:
 - In Tablet mode, the Immediate initial display type will steal users' focus from the window/application in which they are active, possibly interrupting the task in which they were engaged.
 - In Tablet mode, the Ticker initial display type will default to the Badge initial display type.
 - In Tablet mode, the InformaCast Desktop Notifier only supports the **Max** display size setting for the Notification window, i.e. if a notification profile has the **Small**, **Medium**, or **Large** display size setting selected, it will be ignored in favor of the **Max** display size setting.

In addition, in any mode, if the Taskbar is unavailable due to the Kiosks user interface and a broadcast arrives where the initial display type for the Notification window is Toast, Badge, or Ticker, the initial display type will automatically be changed to an Immediate display type instead.

These changes were necessary due to the intricacies of merging Windows 10 with the InformaCast Desktop Notifier.

- **Streamlined Support for Windows 7 and 8.** The InformaCast Desktop Notifier no longer supports Windows 7 and 8 due to Microsoft's impending end-of-life date for these operating systems and industry preferences for Windows 10.

InformaCast Desktop Notifier 4.5.1

The following information pertains to the InformaCast Desktop Notifier 4.5.1.

New Features

- **New DNS Registration Capability.** InformaCast Desktop Notifier instances can now retrieve the InformaCastSpeaker.cfg file and register with the InformaCast Fusion on-premises server through DNS instead of SLP or a statically configured IP address. DNS is the most seamless option of the three because you most likely have DNS set up already, and it is not dependent upon multicast being enabled across your network.
- **New Dynamic InformaCast Desktop Notifier Configuration Interval.** InformaCast Desktop Notifier instances now use a dynamic configuration interval when obtaining the speaker configuration, which limits concurrency and improves server reliability. When the on-premises server receives a lot of traffic, it now provides an optimization to tell connecting clients the interval at which they should retry connections to obtain the speaker configuration, which is most likely sooner than the default interval. This allows for optimized speaker configuration and better maintained active registrations in cases of mass configuration requests, e.g. a power outage causing all InformaCast Desktop Notifier instances to startup concurrently.
- **New Proportional Sizes for Notification Window.** The size of the Notification window, denoted by the **Small**, **Medium**, and **Large** radio buttons on the **Desktop/IP Phone Display** tab of the Notification Profile Details page, has been updated to be proportional to the screen's orientation, i.e. portrait or landscape. This improvement makes broadcasts more aesthetically pleasing and ensures a better fit for the Notification window within the total visible screen.

Announcements

- **Streamlining Support for Windows 7 and 8.** Subsequent versions of the InformaCast Desktop Notifier will no longer support Windows 7 and 8 due to Microsoft's impending end-of-life date for these operating systems and industry preferences for Windows 10.
- **Removed Explorer.exe Dependency.** Previous versions of the InformaCast Desktop Notifier relied upon a dependency within Microsoft Windows' Explorer.exe and its associated Taskbar, i.e. the dependency provided the ability to display the Singlewire icon and InformaCast Desktop Notifier menu in the System Tray. To allow customers to create their own managed user interface, this dependency has been removed. If the Taskbar is unavailable, e.g. due to a managed user interface, and a broadcast arrives where the initial display type for the Notification window is toast, badge, or ticker; the initial display type will automatically be changed to an immediate display type instead.

InformaCast Desktop Notifier 4.3.1

The following information pertains to the InformaCast Desktop Notifier 4.3.1.

New Feature

New Alert Tones. Several new sounds were added to the **Alert Tone** dropdown menu on the Create Message Template/Message Template Details page, increasing your versatility when notifying your recipients of incoming notifications.

Resolved Issue

- **Fixed Issue with Respond Dropdown Menu's Default Size.** On high-resolution monitors (HDPI screens), it was possible for the Notification window to display confirmation request options in a small popup, e.g. from a message template configured with confirmation requests. The initial size of this menu's window has been improved and should appear larger on these displays.
- **Fixed Issue With # and ? Characters in URLs.** In previous versions of the InformaCast Desktop Notifier, when the # or ? character was included in a URL's component identifier that was then displayed in the Notification window, the link would not be clickable. Links with # and ? displayed in the Notification window can now be clicked.

InformaCast Desktop Notifier 4.2.2

The following information pertains to the InformaCast Desktop Notifier 4.2.2.

New Feature

Improved the Display of Icons on Phones and Desktop Notifier Instances. Several enhancements were made to the display of icons added through the **Icon** field notification profile's **Fusion Settings** tab. Not only can you now add larger icon files, those icons will display larger, especially on newer phones with bigger displays. Phones and Desktop Notifier instances previously had a required icon image size of 38x64 pixels. 100x100 is now recommended, although not required. In addition, phones no longer have the icons left justified or cropped. Desktop Notifier instances also don't have cropped icons, but the justification remains left justified due to additional user customization options for the Notification window's size.

InformaCast Desktop Notifier 4.2.1

The following information pertains to the InformaCast Desktop Notifier 4.2.1.

New Features

- **Expanded Support for VDI Environments.** The latest version of the InformaCast Desktop Notifier, which is compatible with InformaCast Fusion 3.6.0, now supports several Virtual Desktop Interface (VDI) products: VMware Horizon 7, Citrix XenDesktop 7.4, and VMware vSphere 6.5.
- **New Rule Filters.** Due to the expansion of VDI support, two new rule filters, Reported IPv4 Address and Reported Name, have been added to InformaCast Fusion to allow you to filter by the client IP address and name of the true endpoint device. In a VDI environment, this is where the VDI client connection originates from (which does not have any other extra InformaCast Fusion software installed on it) as opposed to a non-VDI environment where it would be the location the InformaCast Desktop Notifier is running. These rule filters can be used when creating device and/or activation groups with rules, and when managing license filters.
- **Automatically Remove Unregistered InformaCast Desktop Notifier Instances.** A new dropdown menu on the Network Parameters Details page allows you to automatically remove configured and unregistered InformaCast Desktop Notifier instances after a set number of days. Removed InformaCast Desktop Notifier instances will re-register with InformaCast Fusion if reconnected to your network, but they will reappear as either unconfigured or automatically added depending on the status of the **Automatically Add InformaCast Desktop Notifier Instances and LPI Paging Zones** checkbox.
- **New VDI and Base Image Startup Behavior.** A new checkbox in the installation process, **Startup and configure when installation completes**, allows you to defer initial program startup and configuration rather than configure a value for a MAC address. This is useful when creating a single base image that you will be reusing on multiple computers because it prevents multiple computers from being seen as the same device via the saved MAC address that is captured from the network interface when the InformaCast Desktop Notifier starts.

Resolved Issues

- **Startup Process Removed Systray Icons.** Starting the InformaCast Desktop Notifier, e.g. initially, during upgrades, etc., accidentally removed Systray icons from Windows. The startup process was modified to be less intrusive.
- **Blurry Text/Images in the Notification Window.** Previous versions of the InformaCast Desktop Notifier used Windows' built-in automatic window resizing for high DPI screens or text scaling preferences to display text and images in the Notification window. This could result in blurry text or images. The InformaCast Desktop Notifier no longer relies on Windows for its text/image resizing resulting in clearer text/images.

InformaCast Desktop Notifier 4.1.1

The following information pertains to the InformaCast Desktop Notifier 4.1.1.

New Features

- **New Notification Window Controls Added to InformaCast Fusion.** Previous versions of the InformaCast Desktop Notifier had you controlling the look and behavior of the Notification window through a policy configuration file (IDN_Policy.cfg), which could be confusing and cumbersome. The InformaCast Fusion web interface now provides those same controls through tabs on the Notification Profile Details page, improving the usability of the controls. The InformaCast Fusion user interface should now be the primary interface through which you control the Notification window's look and behavior.

If you are upgrading the InformaCast Desktop Notifier from a pre-4.1.1 version and you have modified your IDN_policy.cfg file(s), that information will be preserved; however, it will override anything you try to configure using the InformaCast Fusion user interface. As such, if you want to use the InformaCast Fusion user interface to control your Notification window's display behavior, you should remove your old IDN_Policy.cfg file(s), which include both the one on your InformaCast Fusion on-premises server and on any computers already running the InformaCast Desktop Notifier.

- **New Command Display Controls Added to InformaCast Fusion.** Previous versions of the InformaCast Desktop Notifier had you controlling the commands that appear in users' InformaCast Desktop Notifier menus with a policy configuration file (IDN_Policy.cfg), which could be confusing and cumbersome. The InformaCast Fusion web interface now provides those same controls through the Desktop Notifier Settings page (**Admin | Settings | Desktop Notifiers**), improving the usability of the controls. On this page, you can set the menu display status for the **Stop/Start Broadcasts** (Windows 7 only), **Clear**, and **Exit** commands as well as set a new logo (the Singlewire logo appears by default) for the Notification window.
- **Separated InformaCast Desktop Notifier Devices from IP Speakers.** InformaCast Desktop Notifier instances are now separate devices (and have a separate device view) from IP speakers. Previously, InformaCast Desktop Notifier instances were listed along with other IP speaker types on the List IP Speakers page. There is now a new left navigation menu option, **Recipients, Desktop Notifiers**, and selecting it will bring you to the List Desktop Notifiers page where you'll have similar controls as the List IP Speakers page:
 - See a list of all of registered InformaCast Desktop Notifier instances
 - Reboot the InformaCast Desktop Notifier on all computers running it
 - Delete all non-registered InformaCast Desktop Notifier instances
 - Add an individual, registered InformaCast Desktop Notifier instance
 - Adjust the volume of the InformaCast Desktop Notifier instances
- **New Check for Software Updates Menu Option.** If you've configured InformaCast Desktop Notifier instances to look for updates to the application (see "Configure Application Updates for Users" on page 26), the **Check for Software Updates** menu option will appear in the InformaCast Desktop Notifier menu, allowing your users to check for software updates at their discretion. Previously, it may have taken a full day or longer to receive software updates, or if they were skipped, users could not change their minds later and receive an update.

When you select the **Check for Software Updates** menu option, if there are no updates to the software, a pop-up dialog box will inform you. If there are available updates, the Software Update pop-up window will appear and you can choose to skip the update, be reminded of it later, or install it. You can also choose to have the InformaCast Desktop Notifier automatically download and install its own updates (once they're detected) in the future. Additionally, the InformaCast Desktop Notifier now fully supports DSA public key replacement on all platforms for automatic software update verification).

- **Added Support for Distributed Activation.** During a static pre-configuration of your installer, you can now add multiple InformaCast Fusion on-premises servers to which InformaCast Desktop Notifier instances can register.
- **Improved Status Report.** Several improvements to the Status report have increased its usability:
 - All servers from which the InformaCastSpeaker.cfg file may be retrieved from will be listed in the *Current State* section. The server used will be listed in the “Obtained from” row in the *Configuration Details* section.
 - Once a configuration file server is chosen, the values read from the InformaCastSpeaker.cfg file will be shown in the *Configuration Details* section.
 - Each server with which the InformaCast Desktop Notifier registers now has its own row in the *Registration Details* section.
 - The *Streaming Statistics* section will now list notifications across all registered servers, and the “Source” column was added to differentiate from which server the notification originated (this should correspond to one of the entries in the “Broadcast Source URLs” column).
- **New Icon Controls.** A default icon, i.e. an exclamation point surrounded by a triangle, is displayed in the Notification window to the left of the **Subject** field's contents. The icon can now be completely removed or you can return to the default icon after customizing it in the InformaCast Fusion user interface.
- **New Controls for Scrolling Speed.** The **Scroll Speed Adjustment** dropdown menu on the Desktop Notifier Details page allows you to increment/decrement the value set in the **Scroll Speed** dropdown menu on the **Fusion Settings** tab of the Notification Profile Details page. Positive values increase the scroll speed; negative values decrease it.
- **Increased Speed of Connection Retries and Decreased Standard Polling Interval.** During initial configuration of the InformaCast Desktop Notifier (in either SLP or static environments), if a configuration error occurs, the InformaCast Desktop Notifier will retry configuration within seconds of detecting a network state change. Additionally, if those retries aren't initially successful and a network state change *isn't* detected, subsequent configuration retries will occur within five minutes (instead of the previous 10-minute intervals).
- **Reworked Network Address Changes and Availability/Unavailability Events.** If network changes/availability events do occur, they are queued and re-registration will occur after 10 seconds. This 10-second interval is extended as needed, i.e. as long as another event continues to occur, the 10-second delay is extended. This delay should help with roaming users, e.g. those walking between multiple wireless access points, or if a lot of network cards (virtual or physical) occur on the same system since multiple events were not previously coalesced.
- **Refined Active Session Tracking.** On a multi-user, shared PC, the active session is now the most recent/active person, i.e. the person currently using the keyboard/monitor/mouse. With this change, the InformaCast Desktop Notifier is now ignoring sleep and resume events on non-active

sessions. Previously including these events may have triggered the starting/stopping of the web server, and the first successful port-bind may have caused the person with an inactive session to get notifications.

- **Connection Failure Pop-up Window Changed to Toast Notification with Improved Text.** In previous versions of the InformaCast Desktop Notifier, when either an SLP or static connection was attempted and could not be made, a pop-up window appeared with an **OK** button. The InformaCast Desktop Notifier still attempted to configure the software in the background when the message was dismissed and the pop-up window wouldn't appear on subsequent attempts and failures. Due to its intrusive nature and required user interaction (even though it was only informational), this pop-up window has been changed to a toast notification: it displays for a few seconds (even if the computer is in tablet mode) and disappears without requiring user interaction. On Windows 10, there will also be a history event in the Action Center. Additionally, its text has been improved to notify users that a connection will continue to be attempted and may take up to five minutes to occur.
- **Expanded Ability to Ignore MAC Addresses.** Several software VPN vendors use the same MAC address when you install their software across all the computers in your environment. The MAC address is normally a unique identifier tied to the physical network interface of a computer and is also used to uniquely identify an InformaCast Desktop Notifier instance to InformaCast Fusion. If multiple computers in an environment share the same MAC address, the last one that registered will be the only one to receive a notification. You can now add a text file, `MACAddressExclusions.txt`, to your installation root directory (typically located in `C:\Program Files (x86)\Singlewire\DesktopNotifier`). When the InformaCast Desktop Notifier is started for the first time, the values included in this file will be ignored from the possible MAC addresses chosen from your network adapters.
- **Connection Failure Error Improved.** In previous versions of the InformaCast Desktop Notifier, when either an SLP or static connection was attempted and could not be made, a pop-up window with an **OK** button or toast notification appeared (the format depended on your version: pre-4.0 was a pop-up window, but it changed to a toast notification in 4.0.x). The InformaCast Desktop Notifier still attempted to configure the software in the background when the error was dismissed and it wouldn't reappear on subsequent attempts and failures. Due to its intrusive nature and user interaction (even though it was only informational), this error has been improved: it displays for a few seconds and disappears without requiring user interaction. Additionally, its text has been improved to notify users that a connection will continue to be attempted and may take up to five minutes to occur.

Resolved Issues

- **Fixed Issue with Multihomed Computers and Multicast.** Previously, Microsoft Windows InformaCast Desktop Notifier instances that were also running in a multihomed environment, i.e. connected to more than one network through physical or virtual NICs, could run into multicast issues where they could incorrectly choose the wrong NIC to receive audio based on the OS's interface priority: an interface prioritized higher by Windows may not be the one on which multicast audio is sent. This would have resulted in receiving notifications with no audio. The InformaCast Desktop Notifier now does a multicast join on every active network interface and develops an affinity to the first-responding interface (in case audio is sent on multiple subnets).
- **Fixed Issue with High CPU Utilization.** Some environments were experiencing high CPU utilization when server heartbeat registration activities overlapped other notification events, such as receiving a notification. Reorganized REST requests and callbacks to resolve the issue.

InformaCast Desktop Notifier 4.0.2

The following information pertains to the InformaCast Desktop Notifier 4.0.1.

- **Resolved Loopback Issue.** The “Microsoft Loopback Adapter” network interface reports its Network Interface Type as an Ethernet Type (rather than a Loopback Type as implied by its name). This Microsoft Network Interface may be used in some VPNs or other specialized network environments with a default MAC address of 02-00-4C-4F-4F-50. If an adapter with this description or MAC address exists on a fresh installation, it will now be ignored (like any other network interfaces that denote themselves with the Loopback Type). In addition, after a software upgrade, a different MAC address will be determined (the prior version of InformaCast Desktop Notifier stored this MAC address in the initial configuration).

**Note**

Using the Microsoft KM-TEST Loopback Adapter on Windows 10 may prevent you from receiving multicast audio. If you need multicast audio, disable this adapter in Windows’ Device Manager.

- **New Support for InformaCast Fusion.** With Singlewire’s release of InformaCast Fusion 3.0.1 (a cloud-based, on-premises and mobile device notification system that allows you to send messages comprised of text, audio, images, and confirmations to your defined recipients), the InformaCast Desktop Notifier has gained a wider audience; it can now receive broadcasts/notifications from both InformaCast and InformaCast Fusion.

InformaCast Desktop Notifier 4.0.1

The following information pertains to the InformaCast Desktop Notifier 4.0.1.

New Features

- **New Visual Broadcast Types.** In previous versions of the InformaCast Desktop Notifier, when a broadcast was sent to computers, the Broadcast window appeared on users’ screens, and it contained banner text and the contents of the **Short Text** and **Long Text** fields of an InformaCast message as well as its audio and confirmation options (if configured). That type of broadcast display is now referred to as an “Immediate” display and there are three new types:
 - *Toast*—A small notification pop-up window will display, showing your configured banner text and the contents of the **Short Text** field of the InformaCast broadcast. The broadcast’s audio and a notification sound may play, but that is dependent upon your platform’s preferences.
 - *Ticker*—A scrolling banner will display at the bottom of users’ screens that contains your configured banner text and the contents of the **Short Text** field of the InformaCast broadcast. The broadcast’s audio and a notification sound may play, but that is dependent upon your platform’s preferences.
 - *Badge*—No initial visual notification will display with the exception of incrementing the number of broadcasts overlaid on the InformaCast Desktop Notifier’s icon in the Task Bar. The broadcast’s audio and a notification sound may play, but that is dependent upon your platform’s preferences.

With both ticker and toast notifications, only one will be shown at a time if multiple broadcast messages are received, i.e. the previous one will close.

- **New Alert Tones.** In the IDN_Policy.cfg file, you can now configure an audio alert tone to play before a broadcast. Several alert tones are included in your installation: accent, bright, chime, chirp, crystal, EAS intro, fire alarm, industrial alarm, klaxon, tone, and tornado siren (the WAV files are typically located in C:\Program Files (x86)\Singlewire\DesktopNotifier\Sounds/). By default, no alert tone is set, i.e. silent is used in the IDN_Policy.cfg file, and you can also select your system's default notification platform sound rather than one of the standard tones.
- **New Priority Profiles.** In the IDN_Policy.cfg file, you can now determine a broadcast's display based on the priority set for an InformaCast message (**Messages** | **Send or Edit Messages** | **Add/Edit** button | **Audio** tab). The IDN_Policy.cfg file can also specify a priority range. When priorities overlap (either in the IDN_Policy.cfg file or between the policy configured on the server and that on a desktop), the configured values are merged; the first time a setting is seen in the configuration, it is regarded as authoritative and won't be overridden. For example, you have your Immediate display listed as the first display in your preferences list, it's set to a message priority level of 3, and its settings include all defaults with the exceptions of a max screen size and a custom bunny logo. Later in your preferences list, you have a range of priority values that includes priority level 3, e.g. 2-4. This range's settings include all defaults with the exceptions of a blue background, customized banner text, and a custom elephant logo. With these settings, when an InformaCast message with a priority level of 3 is sent to InformaCast Desktop Notifier instances, users will see a Broadcast window, i.e. Immediate display, set to its maximum size with a custom bunny logo, a blue background, and customized banner text.
- **New Action Center Support.** The InformaCast Desktop Notifier now integrates with the preference settings available in the Action Center (Windows 8.1 and 10 only). All received broadcasts will be reflected in this list unless your preferences dictate otherwise (some platforms allow you to disable them entirely). Broadcasts can be turned on/off and the InformaCast Desktop Notifier itself can be turned on/off individually. In addition, you can hide broadcasts while using your computer for a presentation, turn Banner displays on/off, and configure whether the alert tone will play before a broadcast is received regardless of the broadcast's audio content (or lack thereof). If you turn off broadcasts, they will still be received and accessible from the InformaCast Desktop Notifier's menu, but Immediate display is suppressed.
- **New Locked Screen Support.** For Windows 10, despite the initial display type selected, the InformaCast Desktop Notifier will detect a user's locked screen and show a Toast display of the broadcast per your platform's preferences (this can be further configured and/or turned on/off in the Action Center). The time a broadcast is displayed on the locked screen is subject to platform limitations, i.e. other applications on the desktop generating notifications, the inactivity of the system, etc.
- **Improved Usability of Broadcast Window's Buttons.** In the Broadcast window, buttons will now only show if they are relevant to the displayed broadcast. If no **Long Text** field contents are provided in a broadcast, the **Show/Hide Details** button will no longer display. If a response or confirmation is not requested, the **Respond/Confirm** buttons will no longer display. If there is no multicast audio in a broadcast, the **Stop Audio** and **Mute Audio** buttons will no longer be displayed.
- **New Menu Option.** The InformaCast Desktop Notifier menu has a new Messages option where all messages received—irrespective of how they are initially displayed—will display along with the time of receipt and a brief summary taken from the contents of the **Short Text** field. Even if notifications are turned off in the Action Center, all messages will still be available through this menu option. Closing the Broadcast window or clearing messages locally will remove notifications from the **Messages** menu option.

- **New Clear Messages Functionality.** Previously, Broadcast windows could only be cleared through InformaCast (**Admin** | **System** | **Clear Devices**). There is now a new sub-menu option, **Clear**, under **Messages** in the InformaCast Desktop Notifier menu that allows you to clear all locally received broadcasts. Broadcast summaries display in Action Center, but are subject to platform preferences, i.e. length of the message displayed and format. The Action Center also offers the ability to clear broadcasts separately.
- **New Icon Support.** The icon shown in the Broadcast window has been relocated to the upper left corner (instead of the right) and additional customization options have been included. You can now elect to have no icon, the default icon, a custom icon, or the icon included with the InformaCast broadcast (if configured on the Add/Edit Message page). The same image requirements that apply for a custom image for the Broadcast window apply for a custom icon.
- **New Email Address Support.** In previous versions of the InformaCast Desktop Notifier, email addresses in the Broadcast window were not supported. They are now supported in both the **Short Text** and **Long Text** fields' contents; they will be automatically recognized and highlighted as links. When clicked, they will start the default email program if configured on that platform.
- **New Copy Functionality.** The text shown in the Broadcast window is now available for copying.
- **New Hyperlink Customization.** It is now possible to customize the hyperlink color shown in the Broadcast window. Previously, some platforms' automatic color selection was undesirable because of background color customizations. The default hyperlink color is now also taken from the HTML5 specification rather than relying on platform defaults.
- **Additional Version Identification.** The version number of the InformaCast Desktop Notifier now appears on the Status report (**Show Status** in the InformaCast Desktop Notifier menu). Previous versions of the InformaCast Desktop Notifier only noted the version in the About InformaCast Desktop Notifier window.
- **New VMware Support.** VMware Horizon 6 is now supported by the InformaCast Desktop Notifier.
- **New Restrictions to Idle Memory Usage.** Changes were made to minimize the InformaCast Desktop Notifier's memory usage when idle. The target soft memory consumption is now 10 MB of RAM (previous memory usage was around 30 MB when idle). In multi-user environments, such as Citrix or VMware Horizon using VDIs, this option is useful to minimize system resources. True memory usage in non-idle scenarios may be higher than 10 MB of RAM.
- **Improved Usability of Logging Features.** The **Event Log** option has been removed from the InformaCast Desktop Notifier's menu, which helped to reduce the memory usage. By using the platform's native logging instead (Event Viewer: **Control Panel** | **Administrative Tools** | **System Security** | **View event logs**), the usability of the log was enhanced since Event Viewer supports queries and advanced filtering across all applications.
- **New Exit Menu Configuration.** The configuration option to allow or deny users to exit the InformaCast Desktop Notifier has moved from the Spel.properties file to the IDN_Policy.cfg file. This allows you to configure this option centrally from your InformaCast server (like other policy settings) or set it as applicable locally on each client as needed.
- **Updated Stop/Start Broadcasts Behavior.** On all platforms (with the exception of Windows 7), the **Stop/Start Broadcasts** option is no longer available by default; it has been replaced in favor of the controls in the Action Center. For Windows 7, the IDN_Policy.cfg file now contains parameters to allow you to allow/deny the **Stop/Start Broadcasts** option in the InformaCast Desktop Notifier menu.

- **New Installation Location.** The InformaCast Desktop Notifier now installs in a DesktopNotifier subdirectory underneath C:\Program Files (x86)\Singlewire rather than in the Singlewire directory. In addition, the IDN_Policy.cfg file in C:\ProgramData\Singlewire has moved to a DesktopNotifier subdirectory.

Resolved Issues

Fixed Pre-configured Interactive Installations. Previously, when the InformaCast Desktop Notifier was pre-configured to use a static URL and an interactive installation was attempted with the installer, the **Use the following static URL** radio button would not be selected nor would the static URL populate its field. This has been fixed and the radio button will be selected and the field will populate with the pre-configured static URL.

InformaCast Desktop Notifier 3.1.0

- **New Hyperlink Support.** In previous versions of the InformaCast Desktop Notifier, hyperlinks had to be embedded, and even then were only supported in the **Long Text** field's contents. Hyperlinks of varying formats are now supported in both the **Short Text** and **Long Text** fields' contents. For example, singlewire.com, www.singlewire.com, and http://www.singlewire.com will all redirect you to Singlewire's website.
- **New Customizable Font Options for Short/Long Text Fields' Contents.** You can now customize the font name, size, style, and color for the contents of the **Short Text** and **Long Text** fields of an InformaCast message. The **Short Text** field of an InformaCast message displays immediately in the right pane of the Broadcast window while the **Long Text** field's contents (if configured) will display upon clicking the **Show Details** button in the left pane. The parameters the **Short Text** and **Long Text** fields can be set independently.
- **New Color Options for the Broadcast Window.** The background color of the Broadcast window as well as the text displayed from an InformaCast message's **Short Text** and **Long Text** fields now have new color choices available (set through the IDN_Policy.cfg file). Valid values can be any standard, HTML-based RGB value or name, e.g. either red or #ff0000 will display the color red. Also, over 100 named values are allowed, e.g. red, white, blue.
- **New Desktop Shortcut and Start Menu Options.** When installing the InformaCast Desktop Notifier, you now have the option to create a desktop shortcut upon completion of the installation wizard. The InformaCast Desktop Notifier is also now automatically added to your Windows **Start** menu.
- **Broadcast Window Enhancement.** When displaying an InformaCast broadcast with no text, e.g. Live Audio, Pre-recorded Audio, or Ad-hoc Audio messages, the Broadcast window will now display "Audio Broadcast" in place of where the contents of the **Short Text** field would normally appear. Previously, there was no visual indicator for audio only broadcasts.
- **New Override Settings for IDN_Policy.cfg File.** The Spel.properties file has new override settings that tell the InformaCast Desktop Notifier where to look for the IDN_Policy.cfg file:
 - *LocalOverride*—The InformaCast Desktop Notifier will look to the on-premises server for the IDN_Policy.cfg file, and override any duplicate settings with values set locally. This is the default setting if this parameter is left unconfigured.

- *RemoteOverride*—The InformaCast Desktop Notifier will look to its local copy of the IDN_Policy.cfg file, and override any duplicate settings with values set on the on-premises server.
- *LocalOnly*—The InformaCast Desktop Notifier will only look to its local copy of the IDN_Policy.cfg file and ignore the copy on the on-premises server, if it exists.
- *RemoteOnly*—The InformaCast Desktop Notifier will look to the on-premises server for the IDN_Policy.cfg file and ignore the local copy, if it exists.
- **New Clear Devices Command.** Starting with the release of InformaCast 11.5.1, if you'd like to remove stale Broadcast windows from your users' computers, you can use InformaCast's **Clear Devices** functionality (**Admin | System | Clear Devices**).
- **New Citrix Support.** The InformaCast Desktop Notifier now supports installation in a Citrix pooled-static or pooled-random desktop environment.
- **Improved Checking and Logging for MAC Addresses.** The InformaCast Desktop Notifier now checks that MAC addresses acquired during the installation's initial MAC address lookup or those entered in the Spel.properties file (either in C:\Program Files (x86)\Singlewire or C:\ProgramData\Singlewire\Spel.properties) are available and support multicast. Any differences between the initial MAC address lookup and one configured manually (if it exists) will also be logged in the Event View to assist in troubleshooting, if necessary.
- **Fixed Confirmation Response Duplicated in Open Broadcast Windows.** If users had multiple Broadcast windows with associated confirmations open on their desktops and selected a response for one window, that response would be duplicated across all open Broadcast windows. This issue has been fixed.
- **Improved Registration Speed of InformaCast Desktop Notifier with InformaCast After System Sleep.** When an InformaCast Desktop Notifier instance is put to sleep, InformaCast will eventually expire the registration per normal expiration rules. However, when the computer in question resumes from sleep, the regular background timer may take some time in re-registering the computer. Re-registration speed has been improved; the InformaCast Desktop Notifier will no longer wait for the normal background timer to complete, but instead register immediately. This avoids a slight delay and potential broadcast loss.
- **Reduced Performance with Animated Images.** Animated images can cause reduced performance in the InformaCast Desktop Notifier when between five to 10 concurrent broadcasts are displayed. This reduced performance includes an unresponsive user interface, high CPU load, and potential broadcast loss. If you choose to use animated images, closing Broadcast windows manually prior to five displayed Broadcast windows is recommended or you may choose to set the maximum number of concurrent Broadcast windows to five.

InformaCast Desktop Notifier 3.0.4

Added Ability to Display Formatting from Short Text Field. If your InformaCast message's **Short Text** field contains longer concatenated text or formatting, e.g. carriage returns, hyperlinks, etc., the space relegated to the **Short Text** field in the InformaCast Desktop Notifier's Broadcast window will expand and/or display a scroll bar to accommodate the text and show the specified formatting or combined concatenated text.

InformaCast Desktop Notifier 3.0.3

- **New Command-line Installation.** You can now install the InformaCast Desktop Notifier silently through your command line (see “Install Using Command-line Parameters” on page 13).
- **Fixed Issue with Pre-configuring Individual Windows Installations.** When pre-configuring the SpellPreconfigFile to use a static IP address from which to retrieve InformaCast’s speaker configuration file (as described in “Pre-configure the InformaCast Desktop Notifier’s Installation”) for use with individual, installer-driven Windows installations (as described in “Install Using the InformaCast Desktop Notifier Installer” on page 10), the static setting and IP address were being ignored in favor of an SLP setting. This issue has been resolved.

InformaCast Desktop Notifier 3.0.2

Fixed Issue with Pre-configuring Mass Windows Installations. When pre-configuring the SpellPreconfigFile to use a static IP address from which to retrieve InformaCast’s speaker configuration file (as described in “Pre-configure the InformaCast Desktop Notifier’s Installation”) for use with mass Windows installations (as described in “Install the InformaCast Desktop Notifier En Masse” on page 17), the static setting and IP address were being ignored in favor of an SLP setting. This issue has been resolved.

InformaCast Desktop Notifier 3.0.1

- **Improved Colors.** The background color selections in the IDN_Policy.cfg file, e.g. DEFAULT, WHITE, BLUE, GREEN, YELLOW, and RED, have been made more vibrant.
- **Fixed Configuration File/Network Connection Issue.** Previously, if you were using the InformaCast Desktop Notifier and you started it without a network connection, the InformaCast Desktop Notifier would look for its configuration file, not find it, log the issue, and remain offline. The new version of the InformaCast Desktop Notifier will continue periodically searching for its configuration file. This issue has been resolved.
- **Pop-up Windows Require Confirmation.** During manual upgrades from the Singlewire Desktop Notification System 2.0 to the InformaCast Desktop Notifier, the upgrade process can sometimes be interrupted with pop-up windows requiring confirmation. Select either the **OK** or **Cancel** buttons on the pop-up windows and the upgrade will resume and complete as normal. Also, the system will not reboot as one pop-up window indicates, nor is a reboot necessary. If you are upgrading through a silent installation with a Group Policy, your installation will not be affected.

InformaCast Desktop Notifier 3.0

- **New Name, InformaCast Desktop Notifier.** The Singlewire Desktop Notification System has been re-branded as the InformaCast Desktop Notifier, a member of the InformaCast suite of applications.
- **New, Updated User Interface.** The user interface of the InformaCast Desktop Notifier has been updated to make it more pliable for customization.

- **New Link Support.** Embedded links, e.g. `Singlewire Software`, are now supported by the InformaCast Desktop Notifier. Entering embedded links in the **Long Text** field of a message's **Text** tab will generate a selectable link in the Broadcast window.
- **Windows Firewall Support.** Steps have been added to ensure that your firewall parameters are properly set to allow communication between the InformaCast Desktop Notifier and InformaCast.
- **End of Software Maintenance for the Singlewire Desktop Notification System.** With the release of the InformaCast Desktop Notifier, the Singlewire Desktop Notification System has reached the end of its software maintenance period. Singlewire Support will continue to answer any configuration and troubleshooting questions that you may have, but no new features or bug fixes will be added to the Singlewire Desktop Notification System and you may be encouraged to upgrade to the InformaCast Desktop Notifier to resolve an outstanding issue.

Desktop Notification System 2.0

- **Message Confirmation Support.** The Singlewire Desktop Notification System now works with InformaCast's message confirmation functionality, allowing you to confirm messages through your desktop. Desktop Notification System 2.0 works with any InformaCast version Singlewire currently supports, but message confirmation functionality will only be available when the Desktop Notification System is used with InformaCast v8.1 or later.
- **New User Interface.** All of the Desktop Notification System's windows have a new look. The user interface can still be customized just as in the previous version, and all user interface customizations from the previous version will still work in this version.
- **New Feature for Policy File.** The format of the policy file used for customizing the user interface has an additional parameter that determines what text will be displayed in the banner area of every Broadcast window. You can use this parameter to display your name or any other text to help users identify the origin of each message. If this parameter is missing in the policy file, the default banner text, e.g. Singlewire Desktop Notification System, will display. The default banner text will always be displayed in non-Broadcast windows regardless of the contents of the policy file (examples of non-Broadcast windows are Event Log and About).
- **New Windows Installation Process.** The Singlewire Desktop Notification System for the Microsoft Windows platform is now installed using an MSI file, which can be used to run on a single machine, or to mass deploy the application across many Windows machines using tools such as Microsoft Group Policy or Microsoft SCCM.

Desktop Notification System 1.1.1

New Formatting Standards. Small documentation changes have been made to bring the Desktop Notification System's documentation in line with new formatting standards.

Desktop Notification System 1.1

Name Change. The Desktop Notification System's graphical user interface has been updated to reflect the company's change from Berbee to Singlewire.

Bug Affected Application's Closure. Previously, when invalid configuration information was entered into the Spel.properties file, the application would not close properly. This has been fixed.

Desktop Notification System 1.0.1

New Mac and Linux Support. The documentation for the Desktop Notification System has been improved to include more in-depth instructions concerning the Desktop Notification System on the Mac and Linux platforms.



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