

How to do a general firmware update using Industrial HiVision and Multiconfig

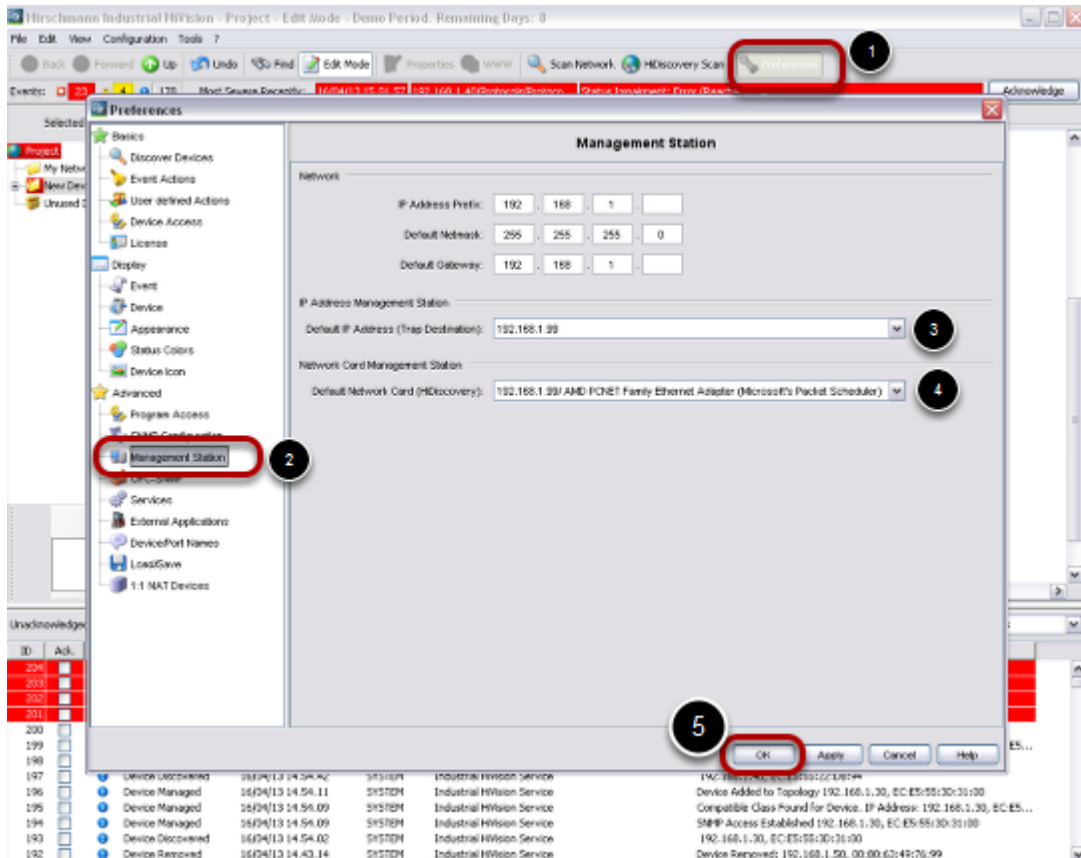
- 2018-02-21 - Industrial HiVision

The goal of this procedure is to update the firmware of several switches using Industrial HiVision and Multiconfig.

Prerequisites

1. Power up all the switches and connect them together creating a bus topology.
2. Download and install Industrial HiVision (IHV) on a pc. IHV can be downloaded here: <http://hivision.de/English/download/index.phtml>. The program has full functionalities for a limited period of 30 days.
3. The firmware you want to installed has been stored on your pc.

Set up preferences



The screenshot shows the Hirschmann Industrial HiVision software interface. The main window is titled "Hirschmann Industrial HiVision - Project - Edit Mode - Demo Period. Remaining Days: 0". The "Preferences" dialog box is open, showing the "Management Station" configuration. The "Network" section has fields for "IP Address Prefix" (192.168.1), "Default Netmask" (255.255.0), and "Default Gateway" (192.168.1). The "IP Address Management Station" section has a "Default IP Address (Tras Destination)" dropdown set to "192.168.1.29". The "Network Card Management Station" section has a "Default Network Card (HiDiscovery)" dropdown set to "192.168.1.29 AMD FCNET Family Ethernet Adapter (Microsoft's Packet Scheduler)". The "OK" button is highlighted with a red circle and a "5" in a black circle. The "Management Station" option in the left sidebar is highlighted with a red circle and a "2" in a black circle. The "Preferences" button in the top toolbar is highlighted with a red circle and a "1" in a black circle. The "Default IP Address" dropdown is highlighted with a red circle and a "3" in a black circle. The "Default Network Card" dropdown is highlighted with a red circle and a "4" in a black circle.

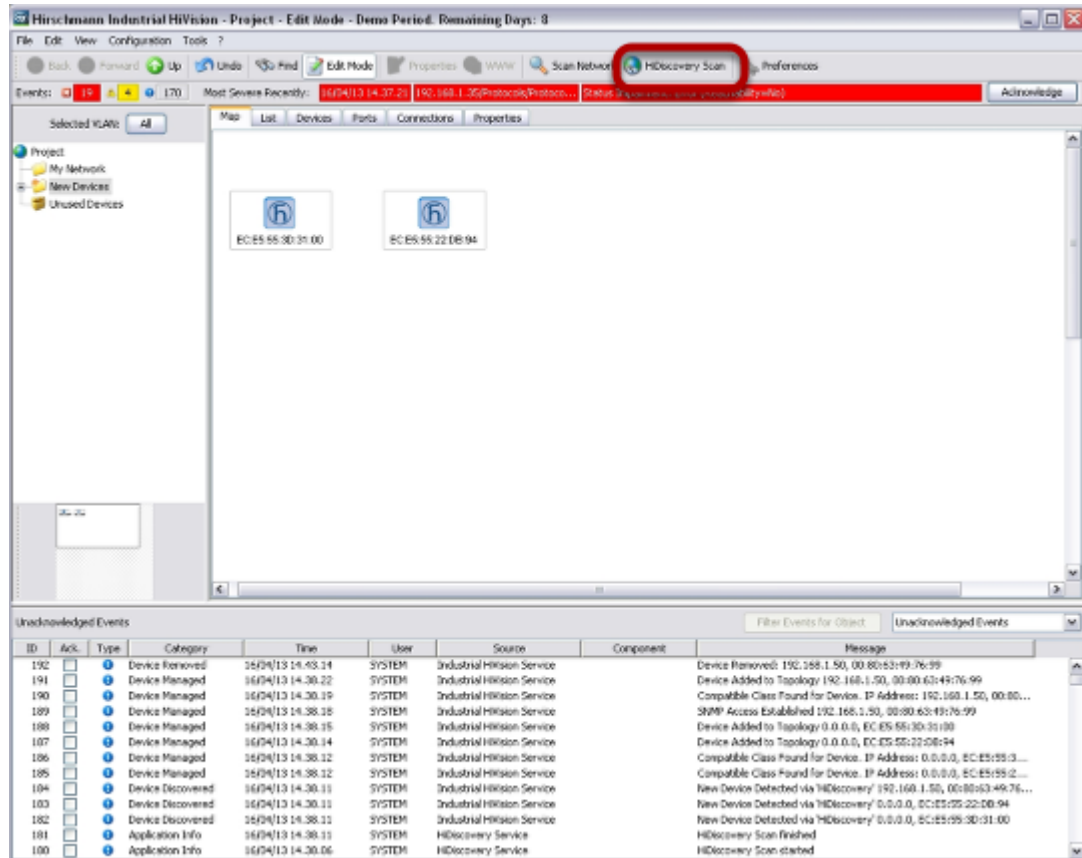
1. Connect the pc with IHV to one of the switches of the network.

2. Launch IHV.
3. Go to 'Preferences', 'Management Station' and check that in 'Default IP Address' and 'Default Network Card' is selected the right network card of your pc. Click ok.

Disable Firewall on you pc

Disable all firewalls on your pc.

Discover the switches of your network



Click 'HiDiscovery Scan'. The system will look for Hirschmann switches. In the example, 2 new switches had been discovered.

IP assignment



Assign an IP address to each switch, right clicking on a switch, 'IP configuration'.



Type IP and subnet mask according to your network addressing plan.

Optional

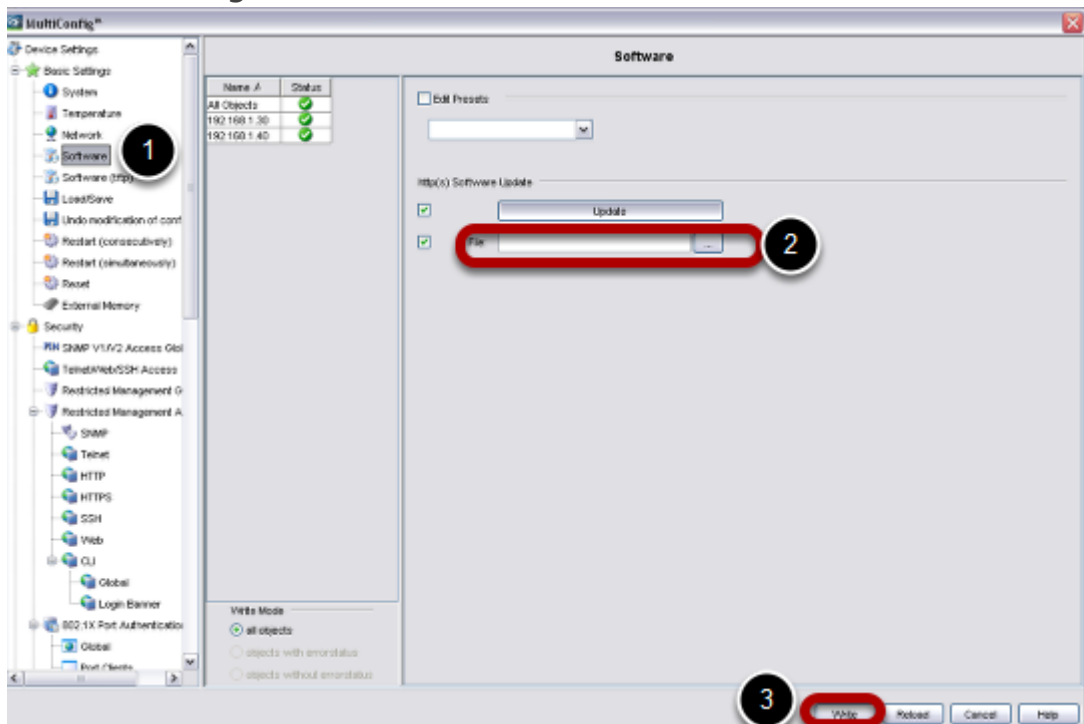
If you want to create the network topology, right click in an empty space and select auto topology.

Select all the switches you want to update



Click on 'List' tab, select all the switches you want to update, then right click, Multiconfig

Use Multiconfig



Go to 'Basic Settings', select 'Software'.

In 'File', please specify the path in which you stored the firmware to use.

Click 'Write'

Multiconfig operation completed



When Multiconfig completes the operations, you can see a green sign. To close this window, click 'Cancel'

Reboot the switches



Using again Multiconfig, go to 'Basic Settings', 'Restart (simultaneously)', 'Cold Start' and reboot the switches.

Check new firmware version

The screenshot shows the Hirschmann Industrial HiVision software interface. The main window displays a 'Devices' table with columns for Type, Status, Name, IP Address, Product, Chassis, System Name, Location, Contact, and Software Version. The 'Software Version' column for two devices is circled in red, showing the value '1.1.01'. Below the device list, the 'Unacknowledged Events' section shows a list of events with columns for ID, Ack., Type, Category, Time, User, Source, Component, and Message. Several events are highlighted in red, including 'Status worse' events for devices 230 and 231.

Type	Status	Name	IP Address	Product	Chassis	System Name	Location	Contact	Software Version
Light	OK	192.168.1.30	192.168.1.30	RSP35.080	RSP35	RSP-EC5553031	Hirschmann RSP	Hirschmann Aut...	1.1.01
Light	OK	192.168.1.43	192.168.1.40	RSP35.000	RSP35	RSP-EC5552200	Hirschmann RSP	Hirschmann Aut...	1.1.01

ID	Ack.	Type	Category	Time	User	Source	Component	Message
236	<input type="checkbox"/>	User Intervention	16/04/13 15:43:08	SYSTEM	Industrial HiVision			Refresh Device (FS): Device: 192.168.1.30, EC:55:55:30:31:00
235	<input type="checkbox"/>	User Intervention	16/04/13 15:43:06	SYSTEM	Industrial HiVision			Refresh Device (FS): Device: 192.168.1.40, EC:55:55:22:00:94
234	<input type="checkbox"/>	Status Better	16/04/13 15:42:34	SYSTEM	192.168.1.30	Protocol/Protocol Ph...		Status Improvement: OK (Reachability=Yes)
233	<input type="checkbox"/>	Status Better	16/04/13 15:42:05	SYSTEM	192.168.1.40	Protocol/Protocol Ph...		Status Improvement: OK (Reachability=Yes)
232	<input checked="" type="checkbox"/>	Status worse	16/04/13 15:42:05	SYSTEM	192.168.1.30	Protocol/Protocol Ph...		Status Impairment: Error (Reachability=No)
231	<input checked="" type="checkbox"/>	Status worse	16/04/13 15:41:46	SYSTEM	192.168.1.40	Protocol/Protocol Ph...		Status Impairment: Error (Reachability=No)
230	<input type="checkbox"/>	User Intervention	16/04/13 15:39:30	SYSTEM	Industrial HiVision			Refresh Device (FS): Device: 192.168.1.30, EC:55:55:30:31:00
229	<input type="checkbox"/>	Device Managed	16/04/13 15:27:03	SYSTEM	Industrial HiVision Service			Device Added to Topology: 192.168.1.40, EC:55:55:22:00:94
228	<input type="checkbox"/>	Device Managed	16/04/13 15:26:58	SYSTEM	Industrial HiVision Service			Compatible Class Found for Device: IP Address: 192.168.1.40, EC:55:55:22:00:94
227	<input type="checkbox"/>	Device Managed	16/04/13 15:26:58	SYSTEM	Industrial HiVision Service			SNMP Access Established: 192.168.1.40, EC:55:55:22:00:94
226	<input type="checkbox"/>	Device Discovered	16/04/13 15:26:52	SYSTEM	Industrial HiVision Service			192.168.1.40, EC:55:55:22:00:94
225	<input type="checkbox"/>	Device Managed	16/04/13 15:26:47	SYSTEM	Industrial HiVision Service			Device Added to Topology: 192.168.1.30, EC:55:55:30:31:00
224	<input type="checkbox"/>	Device Managed	16/04/13 15:26:45	SYSTEM	Industrial HiVision Service			Compatible Class Found for Device: IP Address: 192.168.1.30, EC:55:55:30:31:00

Under 'List' select all you switches, press 'F5', check that the new firmware version is shown.