

# D-View 7 Network Management System User Manual

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# Preface

D-Link reserves the right to revise this publication and to make changes in the content hereof without obligation to notify any person or organization of such revisions or changes. Information in this document may become obsolete as our services and websites develop and change.

## Manual Revisions

Revision	Date	Description
1.0	April 11, 2014	Initial release
1.1	April 24, 2015	Corrections
1.2	August 22, 2016	Modified for new software version

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# Introduction

D-Link strives to provide easy-to-use devices and software for users. Networking is a core technology for data communication. Based on abundant experience and profound understanding on end-user network management requirements, D-Link introduces D-View 7. Network administrators can now efficiently manage and monitor, device configuration, fault tolerance, performance, and security of multiple networks and management switches with D-View 7, a Simple Network Management Protocol (SNMP) Network Management System.

This is a comprehensive standards-based management tool designed to centrally manage critical network characteristics such as availability, reliability and resilience in a consistent manner. D-View accommodates a wide range of devices including:

- Wireless AP
- Wireless Controller
- Unified AP
- Unified Switch
- Smart / Managed Switches
- Other SNMP supported devices



This guide does not discuss network design, management concepts or provide detailed explanations of SNMP, MIB, RMON and associated concepts. We assume the reader is familiar with these networking concepts; hence variables defined in D-View menus are self-explanatory.

# About This Document

## Scope

Use this document to learn, use, and configure the different features of D-View 7.



## Audience

This document is written for network managers, system administrators, and/or IT personnel who would need to work with D-View 7.

# Document Conventions

## Reader Alert Conventions

Reader alerts are used throughout this document to notify the reader of essential information. The following table explains the meaning of each alert.

Reader Alert	Meaning
	Alerts to supplementary information that is not essential to the completion of the task at hand.
	Alerts to supplementary information.

## Style Conventions

The following table explains the meaning of each style convention used in this guide.

Style Element	Meaning
<b>Bold font</b>	Use for describing user interface elements and characters that need to be typed into the interface. For example, Hierarchy Topology Workplace and type <code>http://192.168.1.1</code> .
<i>Italic font</i>	Variables for which the reader must supply a specific value. For example: <i>Filename.ext</i> can refer to any valid file name.
Courier New font	Samples of code and file paths and names.
<b>Courier New Bold font</b>	A command that is typed at the command prompt. For example, <b>ipconfig</b> .

## Available License

After installing D-View, the trial version is automatically activated and allows evaluation of the product with a full feature set with no expiration date. The trial version includes support for 25 nodes and 2 probes. Additional licenses can be purchased and added at any time. Added licenses are accumulated, and there is no expiration date on additional license. Licenses are sold in electronic packs for adding additional nodes, or additional probes. The two types of licenses are different and need to be purchased separately.

A node is any SNMP devices discovered in D-View 7. The node license determines how many devices the D-View 7 can manage.

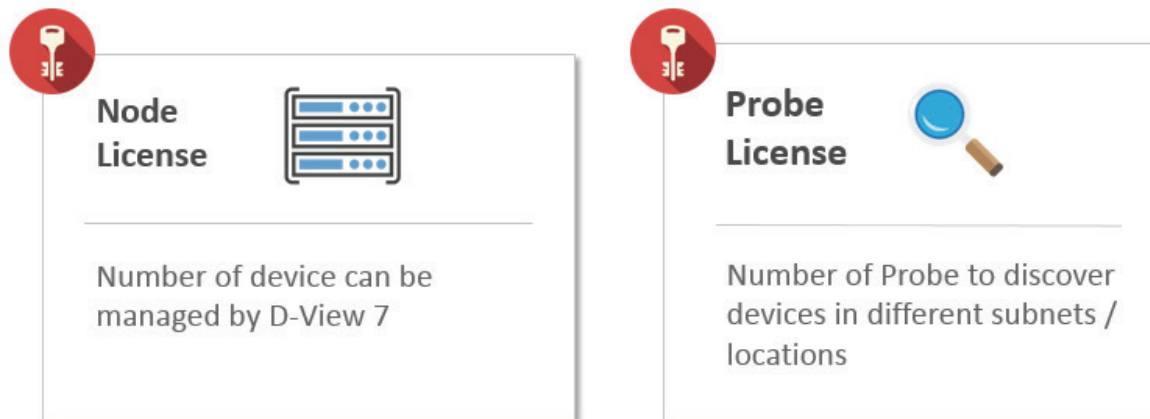
A probe is the remote agent which communicates between the D-View 7 server and devices. The probe license determines how many probes a D-View 7 server can use to communicate with devices from different subnets.

An example for a need to purchase additional licenses would be;

- 1) A single location has 290 nodes that need to be monitored. In this example an additional 250 node license pack, and a 25 node license pack could be combined with the default free 25 node licenses to allow up to 300 nodes.
- 2) Four separate locations each have 5 nodes. In this example an additional 5 probe license pack could be combined with the default free 2 probe license to allow up to 7 probes, that could discover a total of 25 nodes (the default 25 node licenses included with D-View 7).

To find out more about how to activate additional licenses on the D-View 7 server, please see **Activation** on page 25.

To find out more about how to manage additional licenses on the D-View 7 server, please see **License** on page 65.



# System Requirements

## Server

- CPU Dual core, 3.0 GHz or above
- RAM 8 GB or above
- Hard disk 120 GB or above (depends on the number of devices managed)  
'C' drive for core server  
'D' drive for MongoDB database
- OS Windows 7 64-bit (English version, Professional Edition or above)  
Windows 8 64-bit (English version, Professional Edition or above)  
Windows 8.1 64-bit (English version, Professional Edition or above)  
Windows 10 64-bit (English version, Professional Edition or above)  
Windows Server 2008 R2 64-bit (English version, Standard Edition or above)  
Windows Server 2012 64-bit (English version, Standard Edition or above)

## Probe

- CPU Single core, 2.0 GHz or above
- RAM 2 GB or above
- OS Windows XP 32 or 64-bit  
Windows 7, 32 or 64-bit (English version)  
Windows 8, 32 or 64-bit (English version)  
Windows 8.1, 32 or 64-bit (English version)  
Windows 10, 32 or 64-bit (English version)  
Windows Server 2008 32 or 64-bit (English version, Standard Edition or above)  
Windows Server 2008 R2 32 or 64-bit (English version, Standard Edition or above)  
Windows Server 2012 32 or 64-bit (English version, Standard Edition or above)

## Client

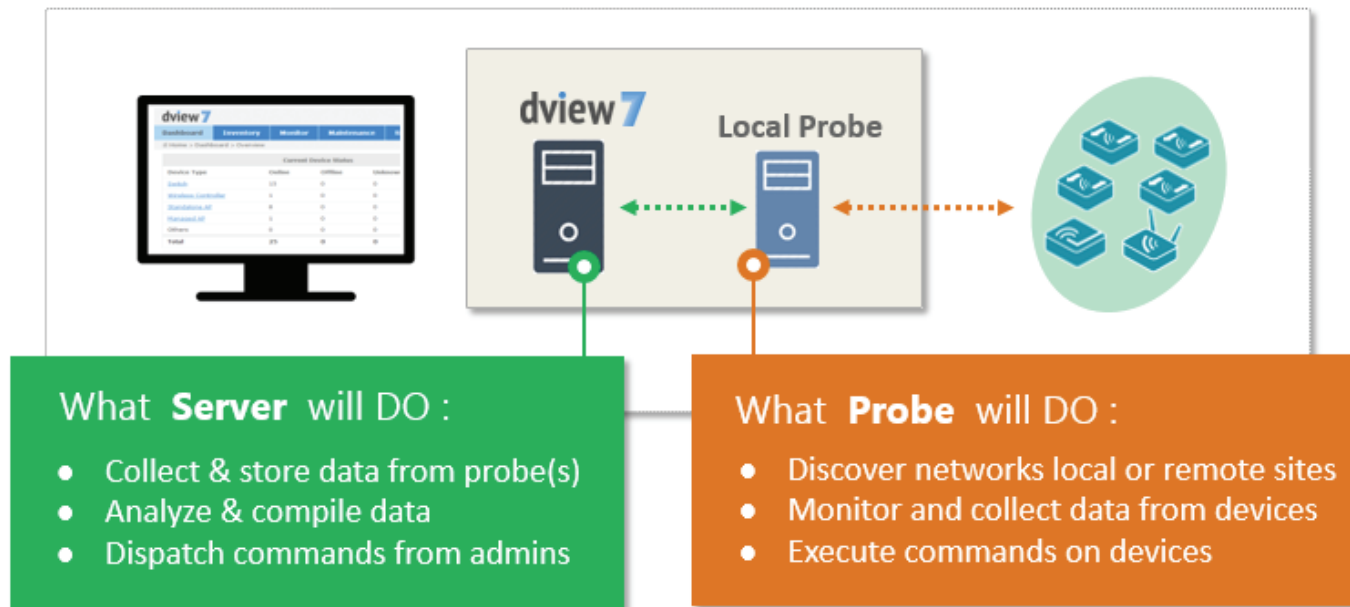
- CPU Single Core 2.0 GHz or above
- RAM 2 GB or above
- Browser Chrome, Firefox, and IE 10 or above

# Understanding Basic D-View Concepts

D-View 7 has been redesigned to utilize a more streamlined server and probe architecture. Each component has a fundamental role, and they work together to give network administrators a greater level of control and management ability over the network.

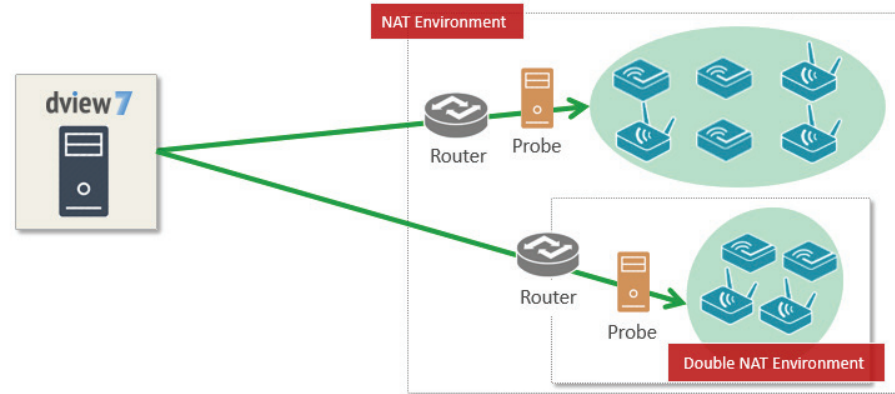
The D-View 7 server is responsible for collecting and storing data that it receives from various probes. It analyzes and compiles the data received and presents it in easy to understand graphs or data views. The server also acts a centralized command center, allowing network administrators to target specific devices or network segments and perform maintenance and administration without any complicated setup.

A probe is used to collect data from SNMP devices, issue command to devices, and communicate with core server. After installing D-View 7, it will have an embedded local probe but an administrator can install additional probes if needed. Probes allows administrators to effectively monitor parts of networks that would otherwise be inaccessible due to firewalls, NAT, or a complicated network environment what make devices hard to access through SNMP.

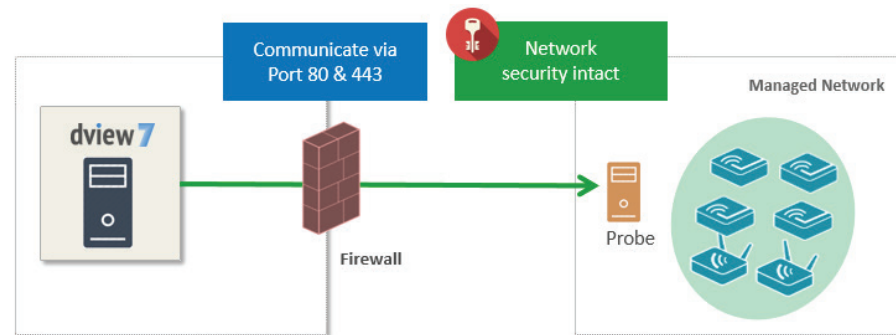


## D-View 7 Server

Utilizing the server-probe architecture enables D-View 7 to get a view of the overall network topology versus traditional network management systems. Deploying probes in network segments that would otherwise be inaccessible from the outside allows network administrators to gain full control of networked resources without having to reconfigure the network in a way that could potentially be not secure.



The server-probe architecture also facilitates a more secure networking environment by eliminating the need to have unnecessary ports open for each segment of the network that needs to be monitored. By deploying a probe within the desired network segment, certain ports such as SNMP, traps, or others that could potentially be exploited are no longer required to be exposed. D-View 7 leverages HTTP and HTTPS to communicate securely, using standardized communication protocols that leave network security policies intact.



When probes try to connect to the core server, they will try to use HTTPS first. Depending on how IIS has been set up, if HTTPS is enabled, then communication between the core server and probes will be in HTTPS. If IIS has not been set up, then a HTTP connection will be used instead.

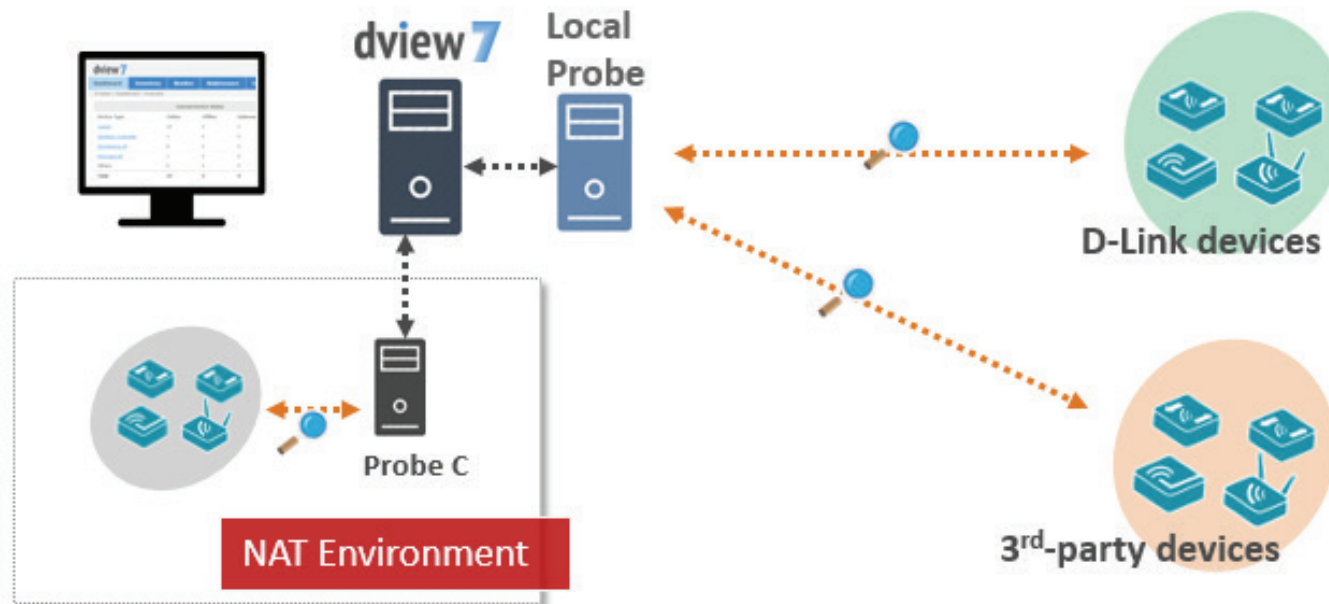
# Probe

D-View 7 probes are the primary component in connecting networking devices with the D-View 7 server. Probes run as a background process, performing network discovery for new devices, polling existing devices for statistics data, and acting as a staging point for forwarding data to the D-View server for networks behind a firewall or in a NAT environment.

Probes for D-View 7 are not limited to D-Link products, and will communicate with any network device that supports industry standard reporting protocols based on SNMP.

Deploying individual probes for a particular network segment helps to alleviate bandwidth constraints, as that data is collected by the probe before being forwarded to the D-View 7 server to be compiled and analyzed. This reduces network overhead by reducing the number of open connections, and the need to have all of the devices communicating directly with the server. Separating network devices into groups also becomes easier as identification based on a number of criteria can more easily be applied for a given network topology.

Probes are also responsible for executing commands received from the D-View 7 administrator on devices that are directly connected to the probe. Examples of this would be performing a reboot, managing event logs, or making changes to a configuration on a device.

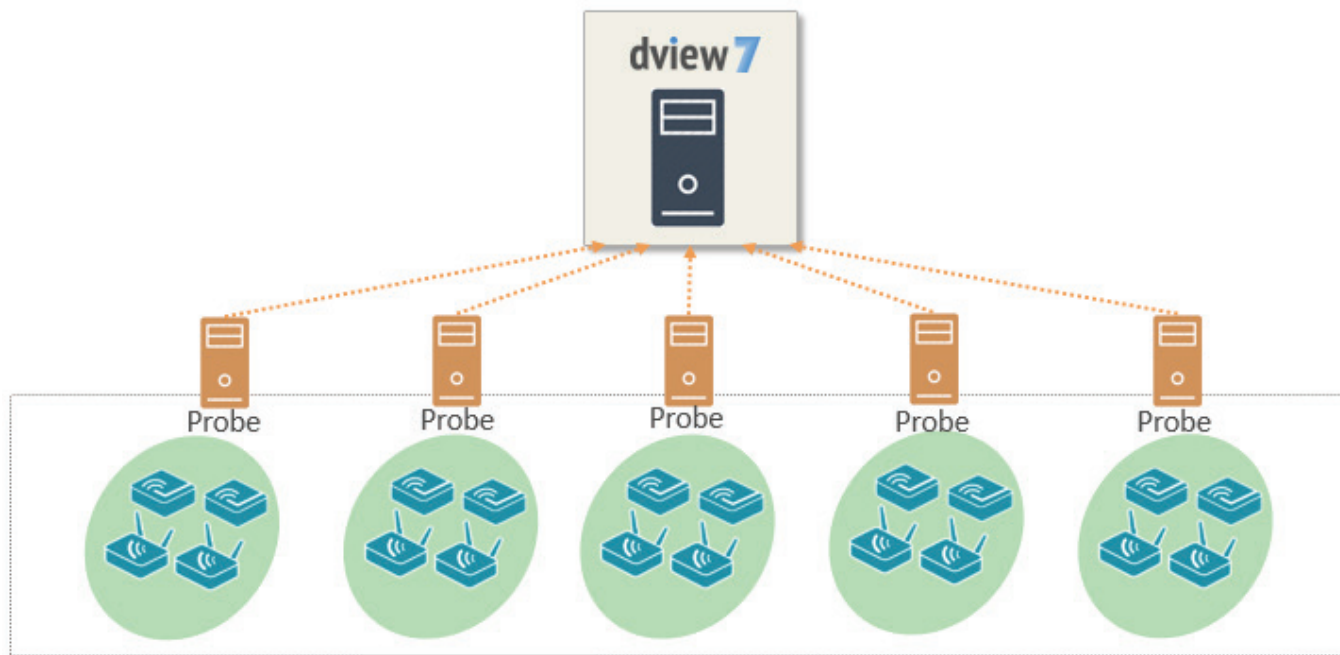




# Sensor

D-View 7 comes preconfigured with a number of sensors that can be used to gather network statistics. Sensors can also be customized down to the device level in order to give network administrators up-to-date information based on any number of criteria. Administrators can log into the D-View 7 server and use the sensor setup wizard to specify a metric such as CPU utilization, and then assign the sensor to any number of devices, groups, or whole network segments. Sensors will then be deployed to the device dashboard, and will gather the necessary information in real-time, updating at specified intervals, and storing the analyzed data for historical reporting.

Sensors can also be assigned to separate workspaces within D-View 7, allowing administrators to create different network environments based on access controls built into D-View 7. This will help to create different workspaces for different teams based on the same number of devices and network topology, but enable different teams to focus on what matters.



## Databases

The D-View 7 backend is built on MongoDB, a document-oriented NoSQL database. MongoDB is made available under the GNU AGPL v3.0 license and the driver is based on Apache License v2.0. The aim of MongoDB is to provide a database that delivers high performance, high availability, and automatic scaling.



Some of the key features of MongoDB are;

- Support for embedded data models reduces I/O activity on database system.
- Indexes support faster queries and can include keys from embedded documents and arrays.
- Provide automatic failover.
- Provide data redundancy.
- Automatic sharding distributes data across a cluster of machines.
- Replica sets can provide eventually-consistent reads for low-latency high throughput deployments.

To find out more information about MongoDB, please visit the main MongoDB website at <http://www.mongodb.org>

<http://docs.mongodb.org/manual/administration/production-notes/>



**Note:** For production environments, please ensure that D-View 7 and MongoDB are installed onto a 64-bit operating system.

# D-View 7 Setup and Configuration

To install D-View 7, please make sure that the system it will be installed on meets the following requirements:

- Meets the Server requirements in the System Requirements section
- Is connected to a network that has Internet access

Additionally, the following components are also needed. If any of the below components are not present at the time of the D-View 7 installation, the installation wizard will install the missing components.

- IIS
- .NET Framework 4.0
- Windows Firewall is enabled
- ASP, ASP.NET, ISAPI Extensions, and ISAPI Filters are installed
- MongoDB

To begin the installation process, download the D-View 7 setup application from the D-View website. After the download has completed, navigate to where the setup application was downloaded to, and double-click on the setup application to begin.

The setup application by default installs all of the necessary components needed to operate in trial mode. Trial mode has all of the same features as a licensed D-View 7 server, but is limited to 25 nodes and 2 probes. To learn more about licensing and the activation process for D-View 7, please refer to **Activation** on page 25.

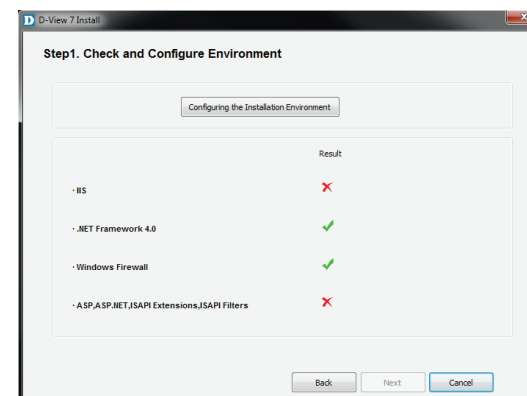
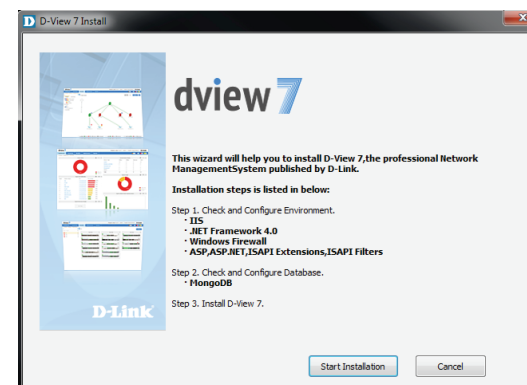
# Installation

After double-clicking the setup application file, the installation wizard will start. Select the preferred language to install. Currently D-View 7 supports the following languages:

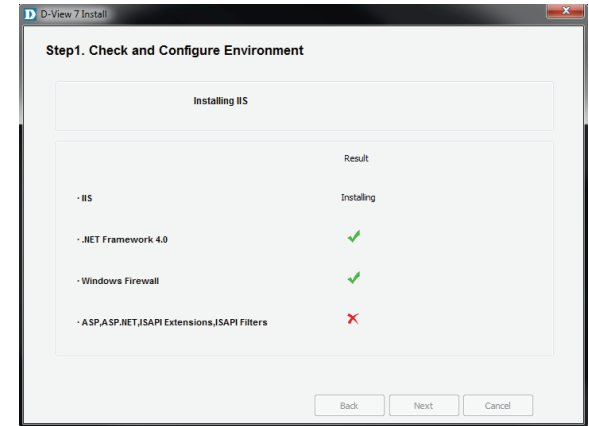
- English
- Simplified Chinese
- Traditional Chinese

After selecting the preferred installation language, D-View 7 will check to make sure that the necessary components needed to run are installed and properly configured. Click **Start Installation** to continue.

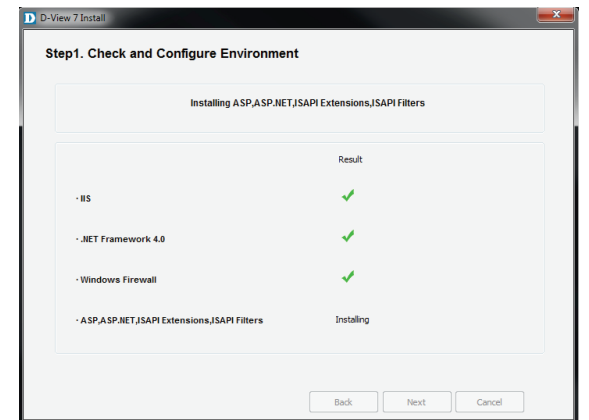
If D-View 7 detects that any components are not present or configured properly, it can attempt to download, install, and configure the missing components. Missing or improperly configured components will have a red X listed next to their name. Click **Configuring the Installation Environment** to have D-View attempt to fix any issues.



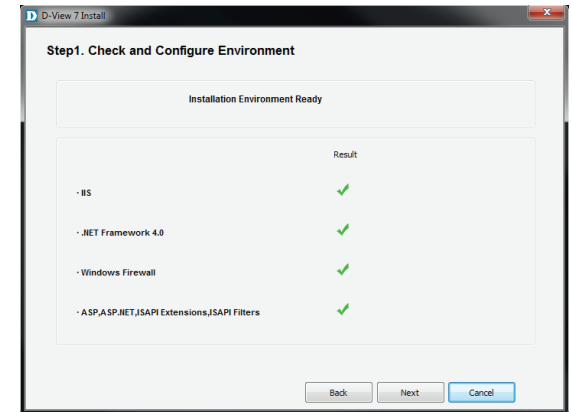
The D-View 7 setup application will display its current progress for each missing or not properly configured component.



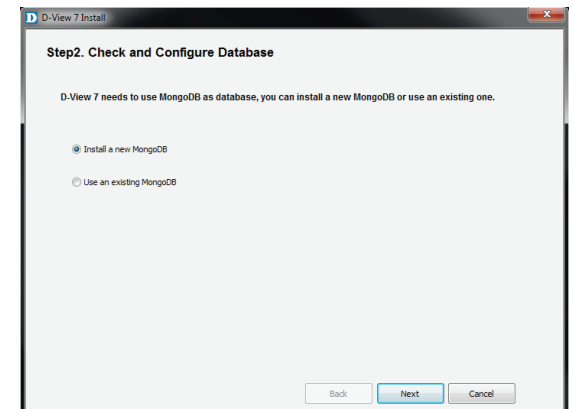
Depending on the speed of the network connection, or if an additional component is already installed but not configured properly, the setup application can take several minutes to complete. If an additional component is already installed, but needs to make changes that might impact other applications, the installation wizard will wait for user confirmation to continue.



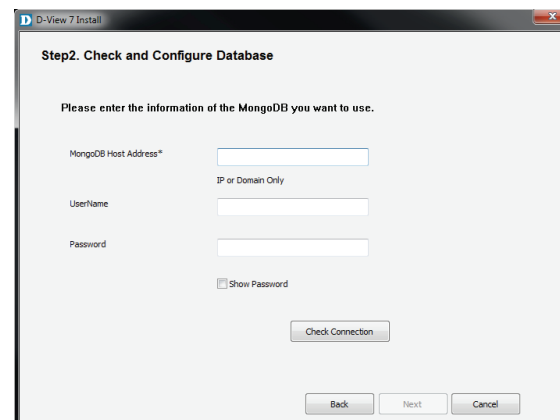
After the D-View 7 setup application has completed configuring the system environment, each additional component should have a green checkmark listed next to its name. Click **Next** to continue the installation process.



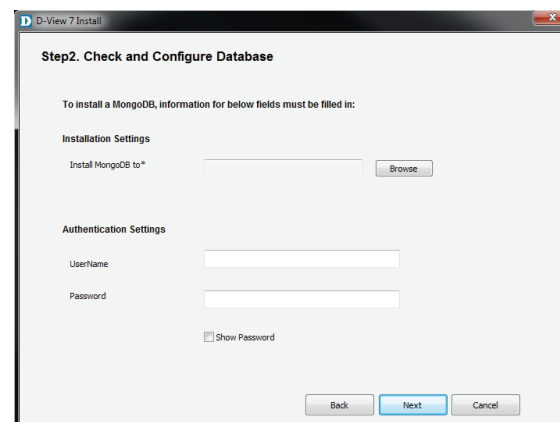
D-View 7 also requires MongoDB and can either download and install MongoDB, or use an existing MongoDB installation. To continue, choose to either **Install a new MongoDB** or **Use an Existing MongoDB** and then click **Next**.



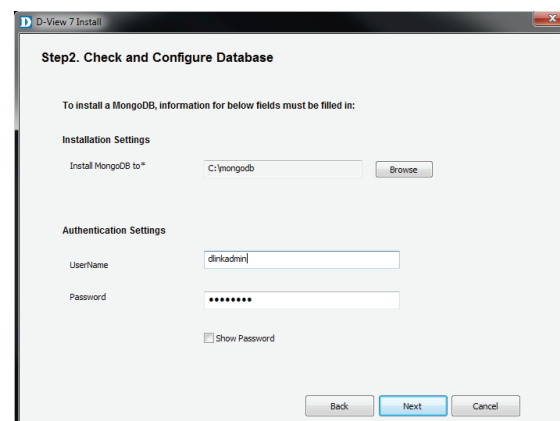
If D-View 7 will be installed using an existing MongoDB instance, enter the hostname or IP address of the database. An admin level account for the existing MongoDB database is also needed as the D-View 7 installation wizard will need to configure settings to operate properly. Enter the **Username** and **Password** and click **Check Connection** to verify that the credentials are valid. Once the existing MongoDB credentials have been verified, click **Next** to continue.



If D-View 7 will be installed with a new MongoDB instance, click **Browse** to navigate to the folder where the MongoDB application will be installed to. Also enter the **Username** and **Password** that will become the administrative account for the D-View 7 MongoDB instance.



Once the MongoDB installation path has been chosen, and the D-View 7 administrative credentials have been set, click **Next** to continue.

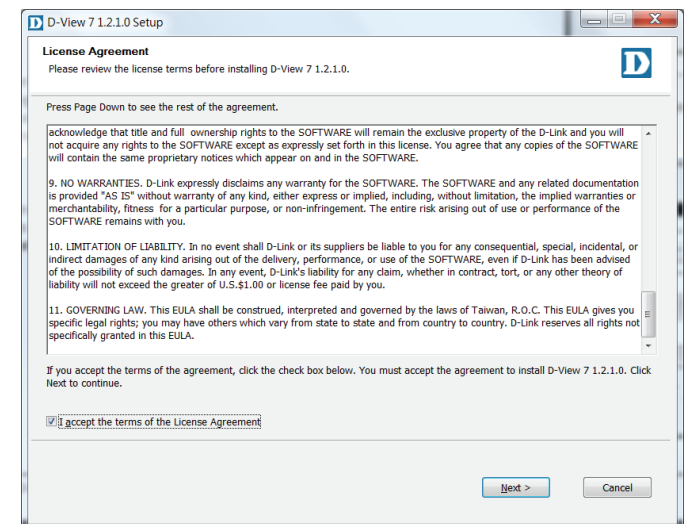
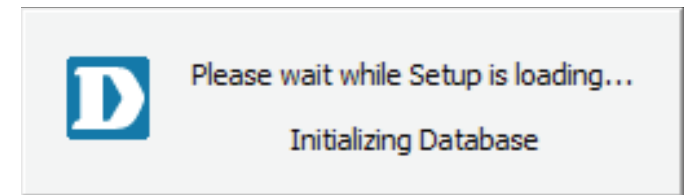
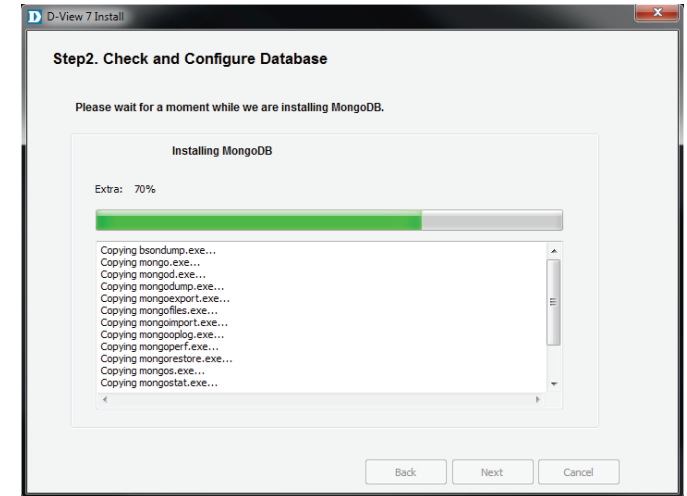


# Installation

The D-View 7 setup application will continue the installation process by creating the necessary database with the credentials supplied. Depending on the speed of the network connection, or if additional components are needed, the setup application can take several minutes to complete the MongoDB installation process. If D-View 7 needs to make changes that might impact other applications, the installation wizard will wait for user confirmation to continue or not.

Once the D-View 7 setup application has completed the MongoDB installation, it will load the MongoDB service and initialize the D-View 7 database. Depending on whether D-View is using a new or existing database, the initialization process could take several minutes to complete.

After the database has been successfully setup and started, the D-View 7 setup will continue. Accept the software license by checking off the license agreement button, and click **Next** when ready.





# Installation

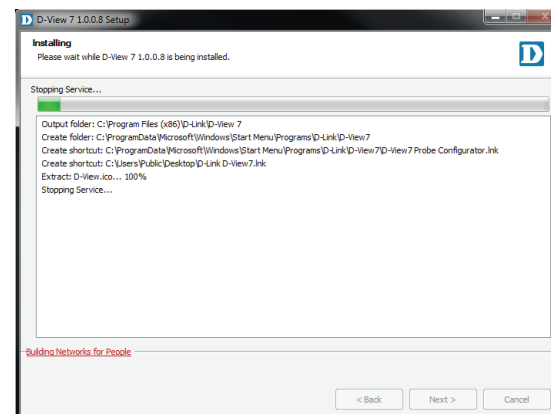
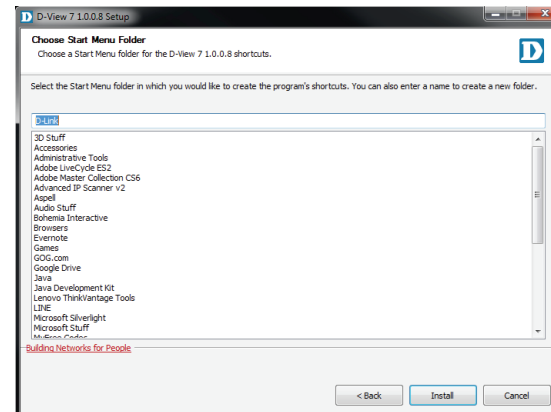
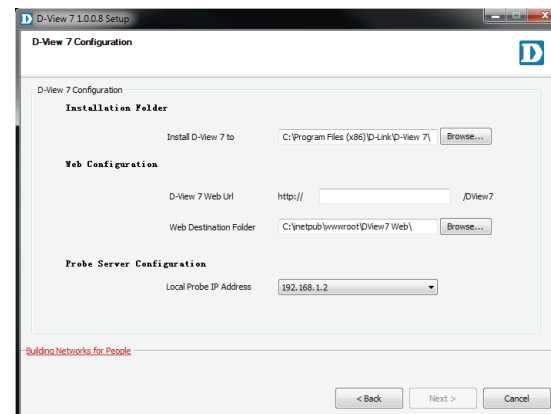
By default, the main D-View 7 application will install itself into the Program Files directory "C:\Program Files\D-Link\D-View 7". If a different installation path is desired, click **Browse** to navigate to the folder where the D-View 7 application will be installed to. Next, enter the default URL that users will use to access the D-View 7 application. This can be either a hostname such as domainname.com or an IP address such as 192.168.0.100.

The Web Destination Folder is usually "C:\inetpub\wwwroot\DView7 Web\". If a different path for the web site is desired, click **Browse** to navigate to the folder where the D-View 7 web files will be installed to.

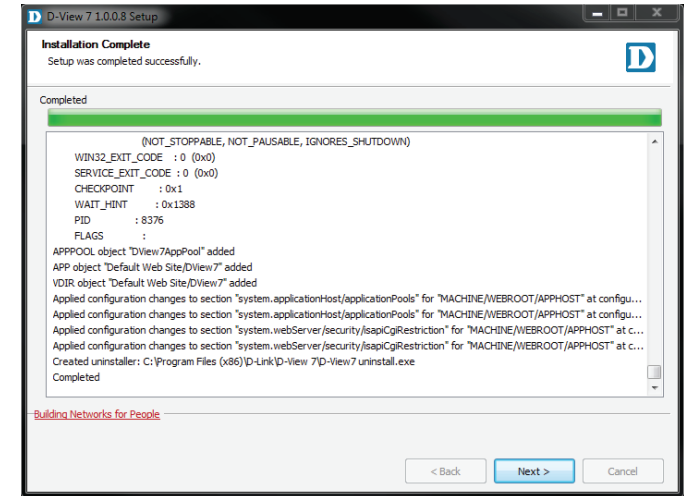
A probe will also be set up for the current subnet that the D-View 7 server is attached to. From the drop down menu, select the correct IP address that the probe will use to determine which subnet to monitor. Click **Next** when ready.

D-View 7 installs shortcuts in the Windows start menu to provide access to the management panel and for uninstallation. If a different path for the shortcut is desired, enter the name of the folder where the D-View 7 shortcuts will be created. Click **Install** when ready.

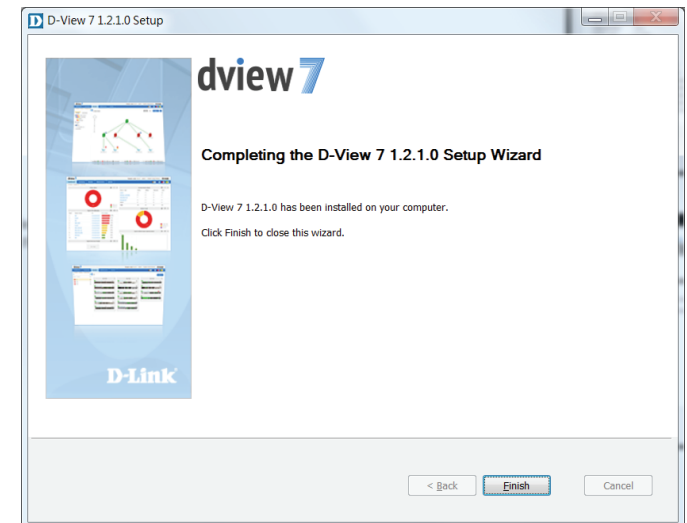
The progress indicator will display how much time is left until the installation process is completed. Depending on the speed of the system, the setup application can take several minutes to complete the installation process.



At the end of the installation process, the setup application will display a summary of all of the changes that were made to the system. Click **Next** to finalize the D-View 7 installation.

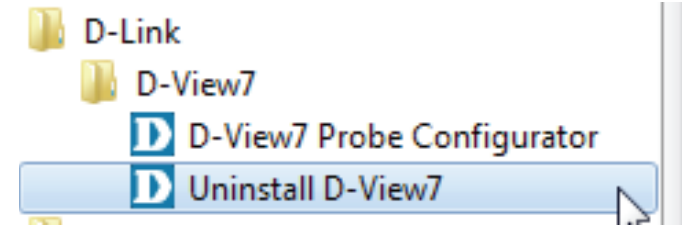


The D-View 7 setup is now complete. D-View 7 can now be accessed by typing in "http://<hostname or IP>/DView7/" into any browser.

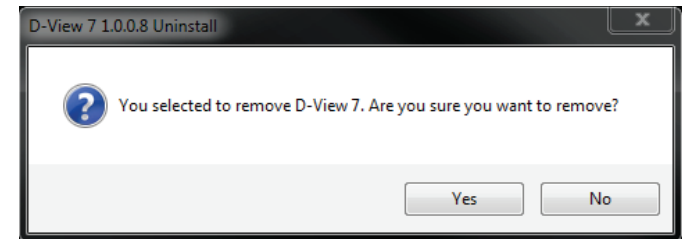


# Uninstallation

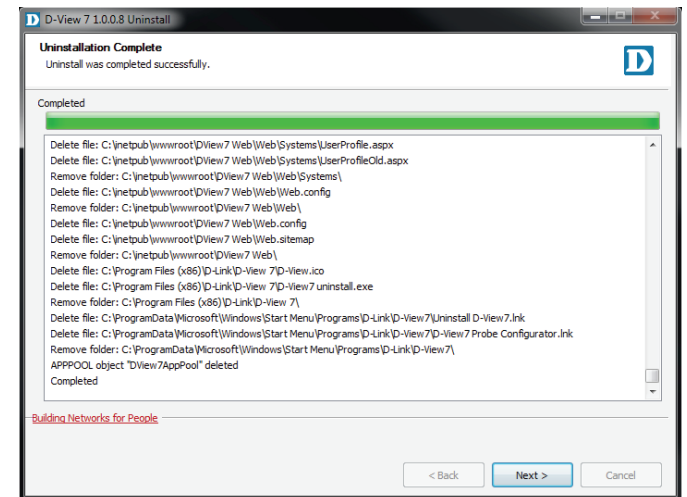
To uninstall the D-View 7 server, start the **Uninstall D-View7** application by clicking on **Start > D-Link > D-View7 > Uninstall D-View7** from the Windows Start menu.



A pop-up prompt will confirm that D-View 7 will be removed from the system. Click **Yes** to continue or **No** to cancel.

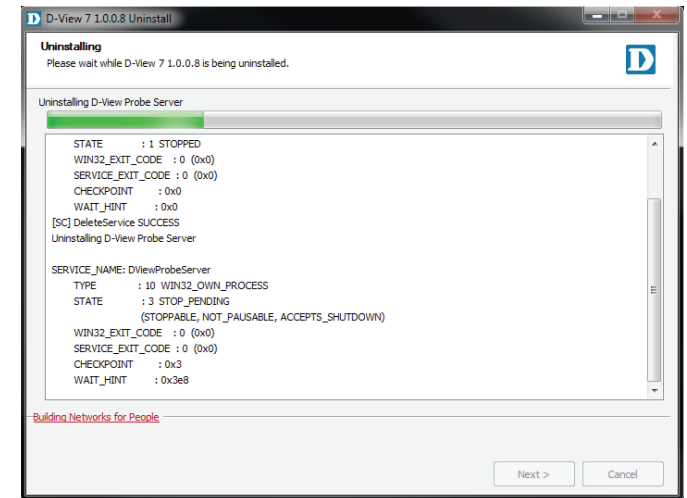


The progress indicator will display how much time is left until the uninstallation process for the D-View 7 service is complete. Depending on the speed of the system, the uninstallation can take several minutes to complete the process. Click **Next** to continue.

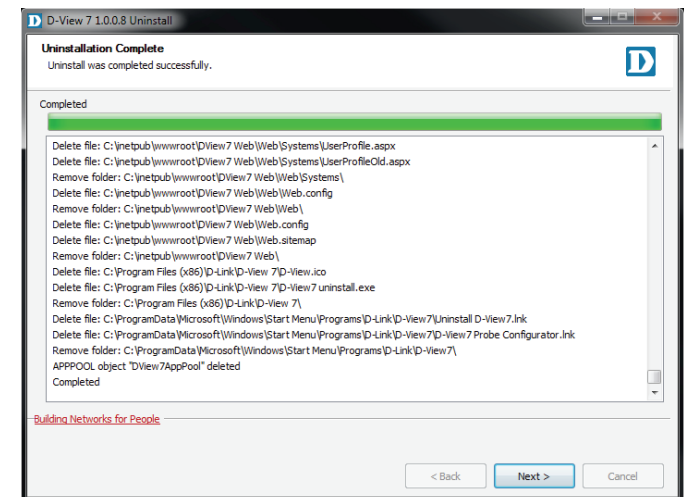


## Installation

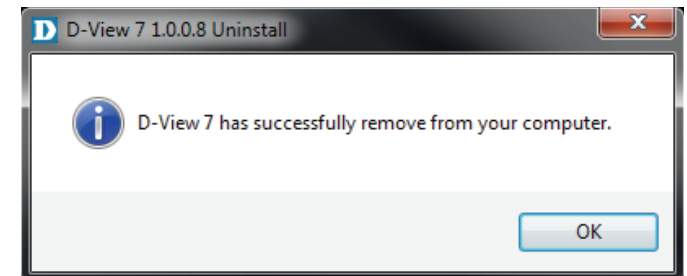
The D-View 7 probe service will also be uninstalled. The progress indicator will display how much time is left until the uninstallation process for the probe service is complete. Depending on the speed of the system, the uninstallation can take several minutes to complete the process.



When the uninstallation is complete, click **Next** to continue.



The D-View 7 application has been successfully removed. Click **OK** to complete the uninstallation process.



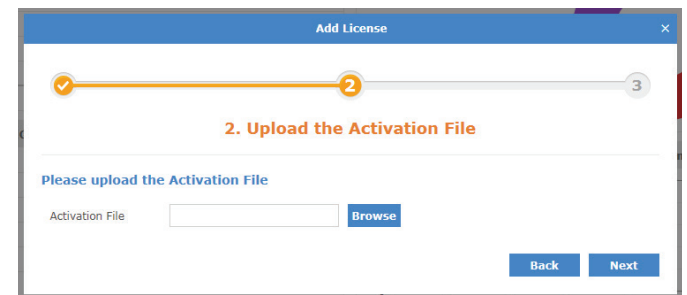
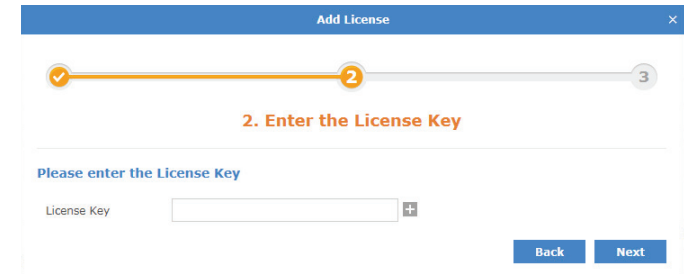
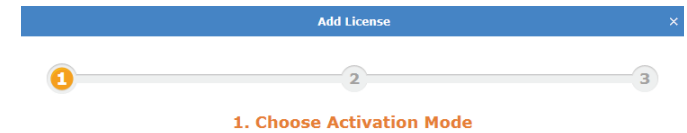
# Activation

Activation of additional licenses can be completed either online or offline. The activation wizard can be started at any time by clicking on the **Upgrade** button located at the top of the D-View toolbar. Licenses can also be added from the License management page. To learn more about license management, please see **License** on page 65.

Clicking the **Upgrade** button will open the License activation wizard and will allow D-View to either be activated over the Internet, or activated using a license file that has been transferred from another system.

If activating over the Internet, enter the license key that was given with the purchased additional node or probe license pack. Multiple licenses can be activated at the same time by clicking on the "+" sign next to the license key field. The system will automatically recognize what type of license is being added and will verify it with D-Link's licensing servers. Once the license has been verified, the license key will be added to the license management page. To learn more about license management, please see **License** on page 65.

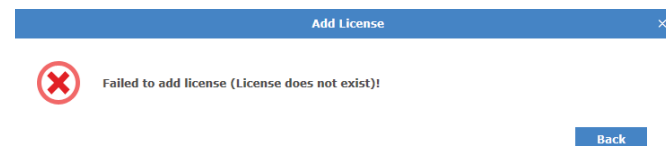
If offline activation is required, click **Browse** to navigate to the folder where the D-View 7 activation file is located. Click **Next** to continue.



## Installation

If the license key entered or activation file used can not be verified with D-Link's activation servers, please check to ensure that the license key does not contain any invalid characters and that the MAC address of the system being used matches the MAC address that was used to register D-View.

Once the license key or activation file has been verified, the D-View 7 server will automatically adjust the number of available nodes or probes, depending on the license type. Licenses can be managed by clicking on **System > License** from the D-View 7 tool bar. For more information about licenses, please see **License** on page 65.



3. Result

Successfully added the license(s) to the D-View 7.

License Summary			
License NO.	Registration Date	Probe Server	Node
9F39A649D740856D8F82	2014-06-10 17:47	0	50
<b>NEW</b> 6AA8C6E77E0B813BC72	2014-06-10 17:47	0	50
7F78D9595A01A8441929	2014-06-10 17:47	0	100
<b>Total</b>		<b>0</b>	<b>200</b>

**To Dos**

1. Activate Probe Servers  
You can activate additional Probe Server by entering the **Activation Code** to the Probe Server.
2. Go to [Inventory](#), where you can find the managed and unmanaged devices. You may create device group(s) here and put devices into different group(s).
3. The Default Sensors is automatically added to monitor and maintain the managed devices. However, you may go to [System > Sensor Settings](#) to create customized sensors and apply them on each device.

Finish

## Upgrading From A Previous Version

It is not possible to migrate the data from an existing D-View 6.0 installation to D-View 7 due to the new database technology introduced with D-View 7. D-View 7 uses a completely different design and architecture that allows network administrators to more easily manage end devices as well as streamline their workflow process.

If D-View 6 is currently installed on a network, a number of steps can be taken to ensure that deploying D-View 7 goes smoothly:

1. Install D-View 7 on a new server.
2. Collect the subnet information and SNMP communities from D-View 6.
3. Configure the discovery network and SNMP communities in the D-View 7 and start to discover the network.

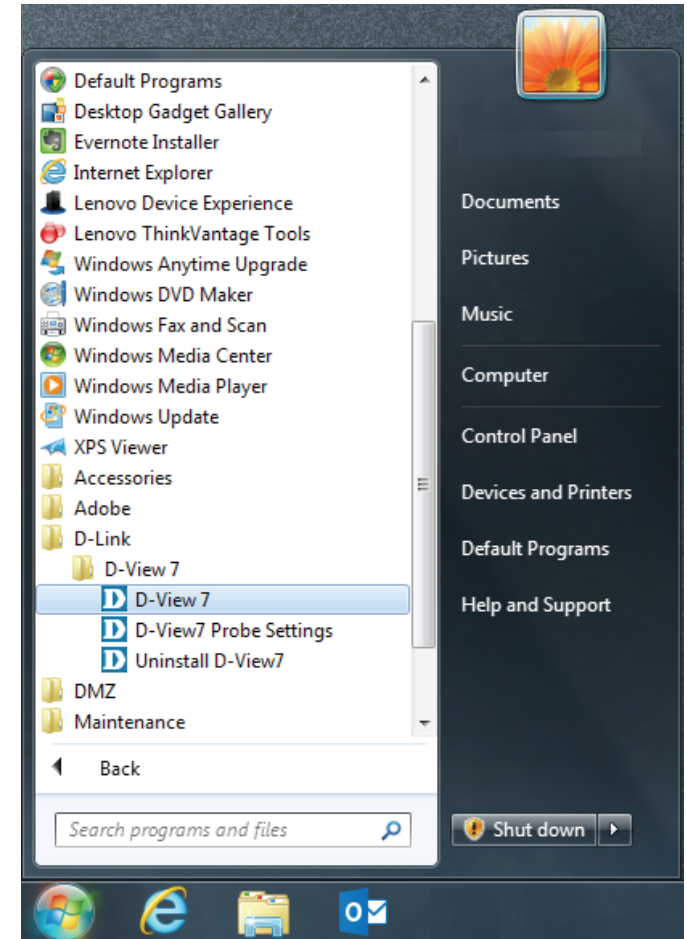


**Note:** Do not install D-View 6 and D-View 7 on the same server! Doing so will cause database and network conflicts.

# Launching the D-View 7 Dashboard

To start the **D-View 7** dashboard click on **Start > All Programs > D-Link > D-View 7 > D-View 7**.

The default web browser will launch and present the login screen.



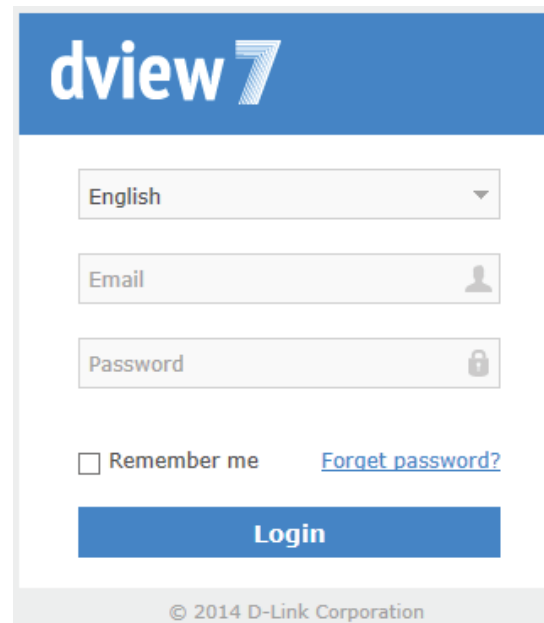


## Logging into the D-View 7 Dashboard

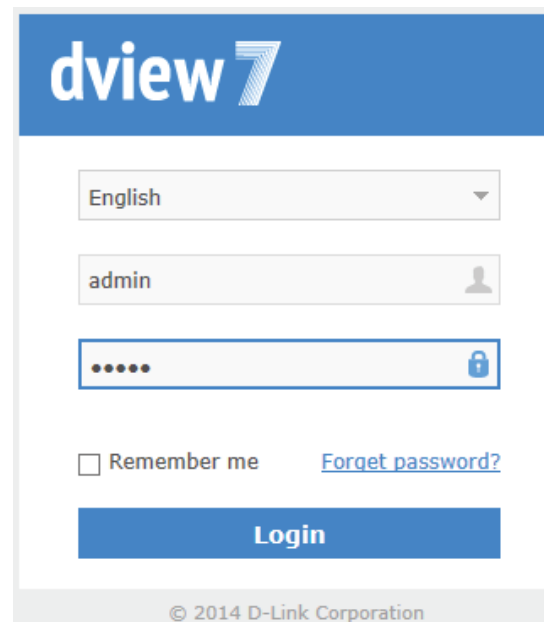
To log into D-View 7 enter an email/username and password and then click **Login**.

The default login credentials for the administrator account are email: "admin" and password: "admin".

This password can be changed later from the **User Profile > Security** panel.



The screenshot shows the D-View 7 login interface. At the top is the 'dview 7' logo in a blue header. Below the logo is a language dropdown menu set to 'English'. There are three input fields: 'Email' with a person icon, 'Password' with a lock icon, and a 'Remember me' checkbox. A blue 'Login' button is positioned below the input fields. At the bottom of the form area, there is a link for 'Forget password?' and a copyright notice '© 2014 D-Link Corporation'.



This screenshot shows the same D-View 7 login interface, but with the 'admin' user name entered in the 'Email' field. The password field is masked with five dots. The 'Remember me' checkbox remains unchecked, and the 'Login' button is still present. The 'Forget password?' link and the '© 2014 D-Link Corporation' copyright notice are also visible at the bottom.

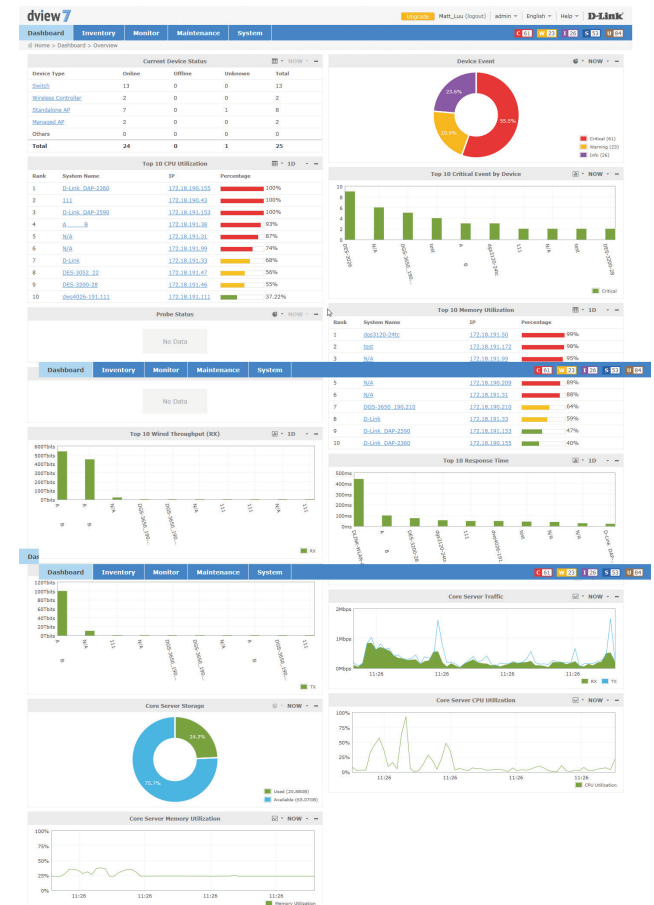
# Dashboard

D-View's dashboard interface provides easy access to all views and tools from a single location. The dashboard is made up of a number of different widgets that can be created and rearranged based on the current users preferences.

By default, D-View will open the Overview dashboard. This dashboard contains a basic set of metrics that would be helpful to a network administrator. The widgets contained within the Overview dashboard can be rearranged by clicking and dragging a widget title bar.

D-View also has a Wireless dashboard, which contains widgets that are specific to the wireless capable devices that are present on the D-View managed network.

For more details on how to use and manage the Overview and Wireless dashboard, please see **Dashboard Interface** on page 31.

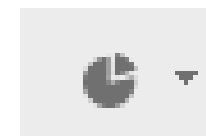


## Dashboard Interface

Each widget in the Overview and Wireless dashboard has three available options to help customize the displayed data by either changing the widget style, changing the time period for the data being displayed, or to completely minimize the widget from view.



To change the widget display type, click on the drop down option. This will allow the widget to switch between a visual graph mode, or a grid/table view that displays data only.



To change the time period for the data that is currently displayed, click on the drop down menu and select the time period desired. If the time period option is greyed out, the widget is only able to display the most current available data.



To hide the widget from view, click on the "-" sign. To expand the widget and show its data again, click on the "+" sign. At any point the widgets may be rearranged by clicking and dragging the title bar into the desired order.



## Customized Dashboard

D-View allows for the creation of customized dashboards that contain a variety of different metrics. Dashboards are unique to the current workspace, so if more than one user shares a workspace, the newly created dashboard will be shared among the users. If it is necessary to separate dashboards between different users, the users must be in different workspaces. To find out more about setting up workspaces, please see **User Management** on page 68.

To begin creating a customized dashboard, hover over the **Dashboard** menu item, and click on **Customized**

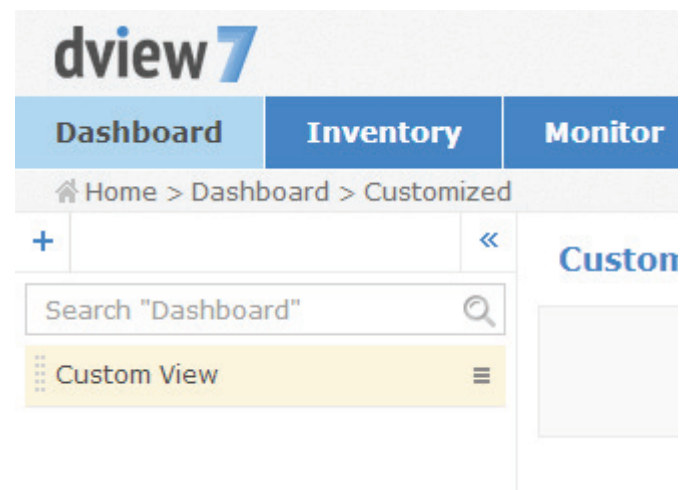
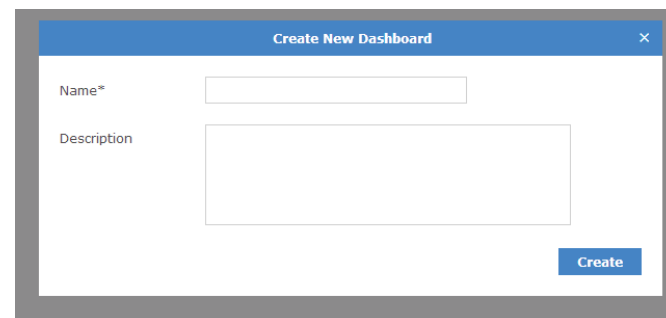
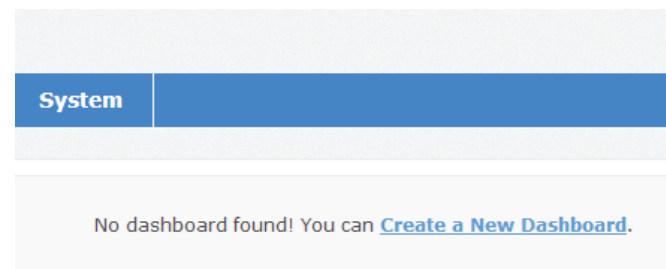
If D-View has just been installed, or if this is a new workspace, the customized dashboard list will be empty. Click on the **Create a New Dashboard** link to start creating a new dashboard.

When the **Create New Dashboard** dialogue box opens, enter a unique name for the dashboard. An optional description for the dashboard may also be entered to help identify it. Click **Create** to save the dashboard to the current workspace.

The newly created dashboard will appear in a column list on the left side of the browser. To add another customized dashboard, click on the "+" sign at the top of the dashboard list. To hide the dashboard list from view, click the "<<" sign at the top of the dashboard list. Dashboards may also be filtered by entering a part or the whole name of the dashboard into the search box.

The dashboard list can be reordered by clicking the left part of the dashboard name, and dragging the selected item either up or down in the list.

To rename or delete a dashboard, click on the drop down menu item located on the right part of the dashboard name.



## Customized Dashboard Widgets

If this is a new dashboard, click on the **Add a New Widget** link to begin adding a new widget. If the dashboard has no widget, click the **Add a New Widget** link to create a new widget. If there is an existing widget, click on the **Add Widget** button located in the upper right of the Customized View to access the widget.

When the **Create New Widget** dialogue box opens, enter a unique name for the widget, and select the device that will provide the sensor data for the widget. The available types of sensors will change depending on the type of device that is selected. Some sensor options have additional options that must be specified before the widget can successfully be created. By default, the interval for the time period is set to 1 minute. Click **Create** to save the widget to the dashboard.

Once the widget has been saved, it will appear in the **Custom View** area. To rename a widget, click on the name in the widgets title bar.

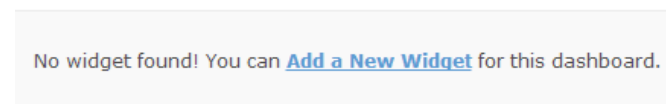
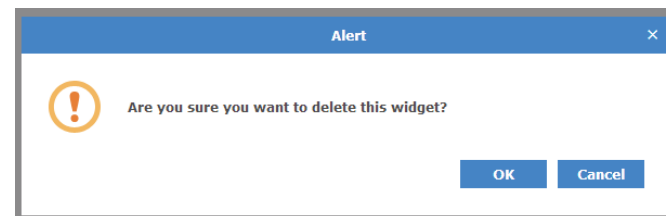
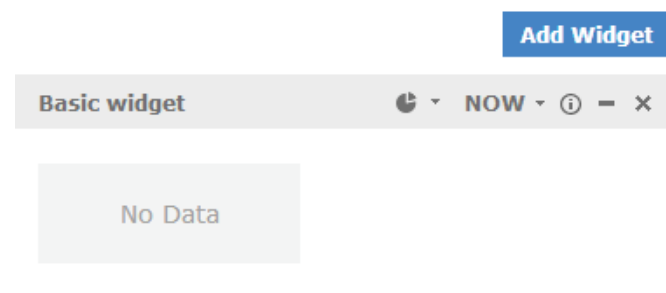
To change the widget display type, click on the drop down option. This will allow the widget to switch between a visual graph mode, or a grid/table view that displays data only.

To change the time period for the data that is currently displayed, click on the drop down menu and select the time period desired. If the time period option is greyed out, the widget is only able to display the most current available data.

To display information about the device that the widget is associated with, hover over the information icon.

To hide the widget from view, click on the "-" sign. To expand the widget and show its data again, click on the "+" sign. At any point the widgets may be rearranged by clicking and dragging the title bar into the desired order.

To delete the widget, click on the X icon. A confirmation dialogue box will open to confirm the widget deletion.

A dialog box titled "Create New Widget" with a close button (X). It contains a text input field for "Name\*", a dropdown menu for "Choose a device\*" with "Choose one Item" selected, and a blue "Create" button.

# Inventory

The Inventory list shows hardware devices that are on the network and their relevant information such as IP address, Serial Numbers, and Firmware. The inventory list is separated into two major sections, managed and unmanaged. By default, the Inventory list will open the D-View Managed devices panel view. The managed device list can be further organized by applying labels to groups of devices. When a new device is added to the network, D-View will automatically add it to the unmanaged device list if it is discoverable. Devices that are in the managed list will be moved to the unmanaged list if they have been deleted from a specifically labelled group.

To create a new label click on the "+" sign in the upper left corner of the device list column. A popup window will open; enter a unique label name, assign a color to the label, and add a description to describe the label. Click **Create** to save the label to the device list. Labels are unique to the workspace that the user is currently in, and users in the same workspace will share labels.

The newly created inventory label will appear in a column list on the left side of the browser. To add another inventory label, click on the "+" sign at the top of the inventory label list. To hide the inventory label list from view, click the "<<" sign at the top of the inventory label list. Inventory labels may also be filtered by entering a part or the whole name of the inventory label into the search box.

The inventory label list can be reordered by clicking the left part of the label name, and dragging the selected item either up or down in the list.

To rename or delete an inventory label, click on the drop down menu item located on the right part of the inventory label name.

To add a device to a newly created inventory label, click on the **D-View Managed** link at the top of the inventory label list. In the **D-View Managed** panel, use the checkbox to select which devices to apply a label to and then click the **Label** drop down menu item to select the appropriate labels. Click **Apply** to save the selected label to the chosen devices.

Status	System Name	IP	MAC	Device Type	Model Name	FW Version	Label
N/A	172.18.191.247	3C:09:98:27:1C:CB	Unified AP	DWL-8900AP	4.1.0.11	N/A	F0001
N/A	172.18.191.200	14:06:4D:60:E6:60	Unified Switch	DWS-3160	1.00.038	A1	8385120000
N/A	172.18.191.31	00:1C:FD:17:08:44	L2 GE Switch	DGS-3000-10	2.00.016	A1	N/A
N/A	172.18.191.20	00:1E:58:4F:FA:10	L2 FE Switch	DGS-3028	2.00.017	A1	N/A
111	172.18.191.43	00:13:07:48:28:70	L2 FE Switch	DGS-3010P	N/A	N/A	N/A
A	172.18.191.152	00:05:50:55:93:A0	Standalone AP	DAP-3020	1.16	N/A	N/A
A	172.18.191.38	00:24:01:FB:7F:C9	L2 GE Switch	DGS-3000-24	2.00.016	A1	P4M2197000
DGS-3020	172.18.191.44	00:13:46:6D:3E:3C	L2 FE Switch	DGS-3026	N/A	N/A	N/A
DGS3028_20	172.18.191.33	00:18:11:81:5A:FC	L2 FE Switch	DGS-3028	1.00.832	N/A	N/A
DGS-3052_22	172.18.191.47	00:18:11:16:6E:4C	L2 FE Switch	DGS-3052	1.00.832	N/A	N/A

**dview7**

Dashboard Inventory Monitor Maintenance System

Home > Inventory

**D-View Managed (25)**

Search "Label"

- Label001 (17)
- Label002 (22)

Status Sys Nar

**Create New Label**

Name\*

Label Color

Description

Create

# Unmanaged

By default, newly discovered devices will appear in the **Unmanaged** device panel view.

To move devices from unmanaged to the managed device panel view, use the checkbox to select which devices to move, then click **Move to Managed**. To completely remove a device from D-View management, click on the **Delete Device** button.



**Note:** This will permanently remove the device and cannot be undone.

To export a list of all of the devices currently in the Unmanaged device panel view, click on **Export** to download a CSV file that can be imported into a spreadsheet application.

Devices may also be filtered by entering a keyword into the search box. Available search options will automatically appear under the search box, select the field to filter the results by. The advance search will allow for multiple filtering criteria.

Unmanaged Total 67

<input type="checkbox"/>	System Name *	IP *	MAC *	Device Type *	Model Name *	FW Version *	HW Version *	Serial Number *	Discover Time *
<input checked="" type="checkbox"/>	N/A	172.18.190.122	N/A	Unknown	N/A	N/A	N/A	N/A	2014-05-16 19:24
<input checked="" type="checkbox"/>	N/A	172.18.190.124	N/A	Unknown	N/A	N/A	N/A	N/A	2014-05-16 19:24
<input checked="" type="checkbox"/>	N/A	172.18.190.111	N/A	Unknown	N/A	N/A	N/A	N/A	2014-05-16 19:24
<input type="checkbox"/>	N/A	172.18.190.120	N/A	Unknown	N/A	N/A	N/A	N/A	2014-05-16 19:24
<input type="checkbox"/>	N/A	172.18.190.18	N/A	Unknown	N/A	N/A	N/A	N/A	2014-05-16 19:24
<input type="checkbox"/>	N/A	172.18.190.2	N/A	Unknown	N/A	N/A	N/A	N/A	2014-05-16 19:24

Unmanaged Total 67

Advanced Search x Export

Model Name

System Name

Discover Time

Device Type

IP Range

Search Close

# Managed

Devices that are in the Managed device panel view can be directly managed by selecting either the System Name, or IP Address of the device. The number of devices that are currently in the Managed devices list, as well as the number of online, and offline devices is displayed in both the Inventory List column, as well in the device panel view.

To move devices between managed and unmanaged, use the checkbox to select which devices to move, then click **Move to Unmanaged**. To add a device to an inventory label, use the checkbox to select which devices to apply a label to and then click the **Label** drop down menu item to select the appropriate labels. Click **Apply** to save the selected label to the chosen devices.

To export a list of all of the devices currently in the Managed device panel view, click on **Export** to download a CSV file that can be imported into a spreadsheet application.

Devices may also be filtered by entering a keyword into the search box. Available search options will automatically appear under the search box, select the field to filter the results by. The advance search will allow for multiple filtering criteria.

To reorder the current device panel view, click on the column title to sort by either ascending or descending.

To manage a device, click on its corresponding **System Name**, or **IP Address** link.

D-View Managed Total 35 ( ● 32 ● 3 ● 0 )

Label	System Name	IP	MAC	Device Type	Model Name	FW Version	HW Version	Serial Number	Discover Time	Label
<input checked="" type="checkbox"/>	N/A	172.18.191.164	00:22:44:66:88:00	Unified AP	DWL-6600AP	4.1.0.11	N/A	1004748	2014-05-16 19:25	
<input type="checkbox"/>	N/A	172.18.191.168	1C:AF:F7:1F:1F:40	Unified AP	DWL-8600AP	4.1.0.11	N/A	H06301226	2014-05-16 19:25	
<input type="checkbox"/>	N/A	172.18.191.247	5C:D9:98:27:1C:C0	Unified AP	DWL-8600AP	4.1.0.11	N/A	F0001	2014-05-16 19:25	
<input type="checkbox"/>	N/A	172.18.191.31	00:1C:F0:17:08:44	L2 GE Swtch	DGS-3200-10	2.00.016	A1	N/A	2014-05-16 19:24	N/A

D-View Managed Total 35 ( ● 32 ● 3 ● 0 )

**Label** ▼

**Move to Unmanaged**

---

**Status** ▲ ▼

**System Name** ▲ ▼

**IP** ▲ ▼

**M**

---

---

**W Version** ▲ ▼

**Serial Number** ▲ ▼

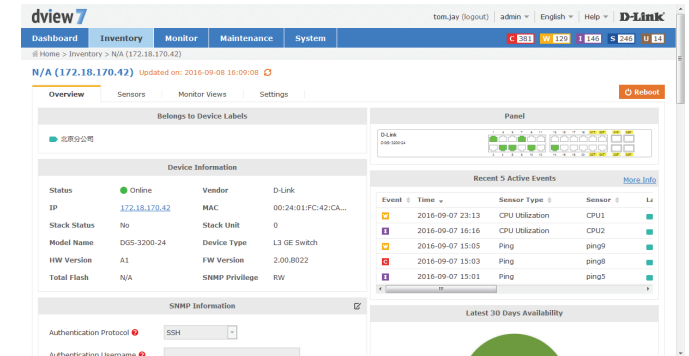
**Discover Time** ▲ ▼

**Label**

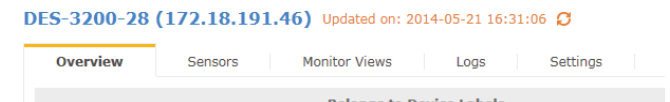


# Device Detail Overview

The device detail overview gives a more complete dashboard view of a device. The default overview tab displays basic information that allows network administrators to get the information they need as quickly as possible.



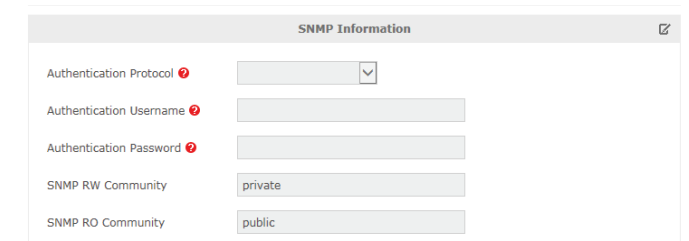
The number and type of widgets, as well as available tabs displayed will depend on the type of devices.



Certain functions will also be available, such as the ability to Reboot a device, or configure additional settings.



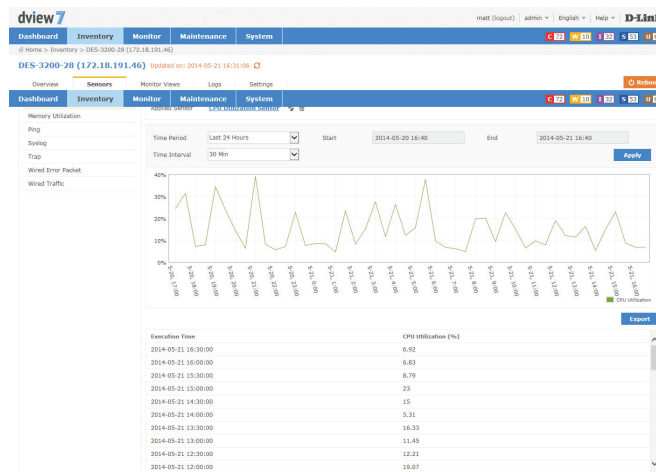
By default widgets are not able to be edited, and will only display information that has been manually entered. To edit information for a widget click on the **Edit** icon. This will allow the user to add information to any of the editable fields for that widget.



## Device Detail Sensors

Every class of device has its own default sensors that can be accessed from the device detail sensors tab. For example, wireless access points will have sensors for different types of metrics that relate to wireless clients, wireless traffic, or ping time. While routers and switches will have sensors that show metrics such as CPU utilization, wire speeds, and wired error packets.

Customized sensors can be setup and applied to any device that is in the D-View Managed inventory list. For more information on how to create new sensors, please refer to **Sensor Settings on page 70**.

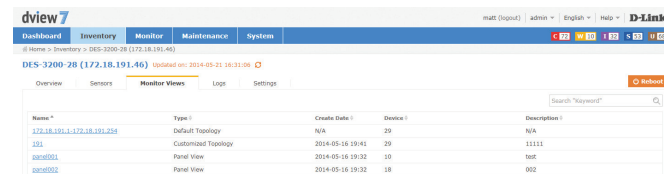


## Device Details Monitor Views

The monitor views tab displays a list of all the topologies that the currently selected device is a part of. Clicking on the name link to a topology will open a new window with the topology view that includes the currently selected device.

Topologies may also be filtered by name by entering a keyword into the search box.

The monitor view displays the name of the topology, the type of topology it is a part of, the date the topology was created, the number of devices that are associated with the topology, and if available a description of the topology.



The screenshot shows the 'Monitor Views' tab in the D-Link D-View 7 interface. The page title is 'DES-3200-28 (172.18.191.46)' and it was updated on '2024-05-21 16:31:08'. The 'Monitor Views' tab is active, showing a table with columns: Name, Type, Create Date, Device, and Description. A search box is located at the top right of the table area.

Name	Type	Create Date	Device	Description
<a href="#">172.18.191.1-172.18.191.254</a>	Default Topology	N/A	29	N/A
<a href="#">121</a>	Customized Topology	2024-05-16 19:41	29	11111
<a href="#">pan001</a>	Panel View	2024-05-16 19:32	10	test
<a href="#">pan002</a>	Panel View	2024-05-16 19:32	18	002

## Device Details Logs

Devices that have support for local or remote logging will have a logs tab, which list all of the events for that device. D-View 7 supports both the Trap and Syslog standards and can receive either if a remote networking device is configured properly.

The Logs view can be filtered by time period using the drop down menu. The events are listed in chronological order, starting with the name of the event, the SNMP version that was used by the remote device, the category of event for the message, and the message itself.

Devices that have notifications setup correctly will also have their events added to the D-View tool panel event notification area. These alerts are for all devices setup correctly and clicking on either **Critical**, **Warning**, **Informative**, **System**, or **Unmanaged** will allow the administrator to review and take action as necessary.

To configure a device to use D-View 7 as a Trap or Syslog server, click on the **Settings** tab and refer to **Device Details Settings** on page 41.

The screenshot displays the D-View 7 web interface. At the top, there is a navigation menu with tabs for Dashboard, Inventory, Monitor, Maintenance, and System. Below the menu, the breadcrumb path is Home > Inventory > DES-3200-28 (172.18.191.46). The main heading is DES-3200-28 (172.18.191.46) Updated on: 2014-05-21 16:31:06. There are several tabs: Overview, Sensors, Monitor Views, Logs (selected), and Settings. Under the Logs tab, there is a 'Show' section with 'Trap Log' and 'Syslog' buttons. Below this is a table with columns: Time, SNMP Version, Generic Type, and Message. The table is currently empty. At the bottom of the interface, there is a 'Reboot' button. The footer area shows 'matt (logout)', 'admin', 'English', 'Help', and the D-Link logo. A status bar at the very bottom shows indicators for Critical (72), Warning (10), Informative (32), System (53), and Unmanaged (68).

# Device Details Settings

The **Device Details Settings** tab is available for devices that are able to receive configuration commands from the D-View 7 server. This will include classes of device such as managed switches, managed access points, and routers/firewall devices. Some of the options for the settings tab may change depending on the device.

## Options for APs

**SNTP / NTP Status:** This option shows whether or not the device currently selected is configured to send status updates for NTP. To configure this option, use the management software for the device.

### DHCP Server

**Status:** This option shows whether or not the device currently selected is configured to send status updates for DHCP. To configure this option, use the management software for the device.

### Trap Status:

If the currently selected device is able to send Trap status to D-View and is not currently configured to do so, D-View 7 can attempt to configure the device. To do so, click on the **"Set D-View as Trap Server"** button. D-View 7 will attempt to make the necessary changes on the currently selected device and if successful, will change the interface to show that the option has been toggled on.

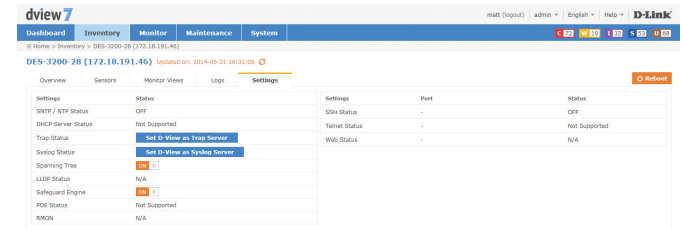
### Syslog Status:

If the currently selected device is able to send Syslog status to D-View and is not currently configured to do so, D-View 7 can attempt to configure the device. To do so, click on the **"Set D-View as Syslog Server"** button. D-View 7 will attempt to make the necessary changes on the currently selected device and if successful, will change the interface to show that the option has been toggled on.

### Operation Mode:

This shows the current operating state of the device. To configure this option, use the management software for the device.

### SSH Status:



SNTP / NTP Status OFF

DHCP Server Status Not Supported

Trap Status [Set D-View as Trap Server](#)

Syslog Status [Set D-View as Syslog Server](#)

Operation Mode Access Point

If the currently selected device supports remote SSH log in, the SSH service for the device can be controlled by D-View 7. Use the toggle to enable or disable the remote SSH service. If the status is reported as "**Not Supported**" the service may still be available, but status notifications may not be enabled. To enable status notifications for SSH, use the management software for the device. By default, SSH is set to port 22. If the SSH service is running on a non standard port, enter the correct port by clicking on the edit button and entering the correct port value.

#### Telnet Status:

If the currently selected device supports remote Telnet log in, the Telnet service for the device can be controlled by D-View 7. Use the toggle to enable or disable the remote Telnet service. If the status is reported as "**Not Supported**" the service may still be available, but status notifications may not be enabled. To enable status notifications for Telnet, use the management software for the device. By default, Telnet is set to port 23. If the Telnet service is running on a non standard port, enter the correct port by clicking on the edit button and entering the correct port value.

#### Web Status:

If the currently selected device supports remote Web log in, the status of the SSH service for the device can be controlled by D-View 7. Use the toggle to enable or disable the remote SSH service. If the status is reported as "**Not Supported**" the service may still be available, but status notifications are not enabled. To enable status notifications for SSH, use the management software for the device. By default, Web Status is set to port 80. If the remote Web log in service is running on a non standard port, enter the correct port by clicking on the edit button and entering the correct port value.

Settings	Port	Status
SSH Status	-	OFF
Telnet Status	23 	<input checked="" type="checkbox"/> ON 
Web Status	80 	<input checked="" type="checkbox"/> ON 

Settings	Port	Status
SSH Status	-	OFF
Telnet Status	23 	<input checked="" type="checkbox"/> ON 
Web Status	80 	<input checked="" type="checkbox"/> ON 

Settings	Port	Status
SSH Status	-	OFF
Telnet Status	23 	<input checked="" type="checkbox"/> ON 
Web Status	80 	<input checked="" type="checkbox"/> ON 

## Options for Managed Switches

**SNTP / NTP Status:** This option shows whether or not the device currently selected is configured to send status updates for NTP. To configure this option, use the management software for the device.

### DHCP Server

**Status:** This option shows whether or not the device currently selected is configured to send status updates for DHCP. To configure this option, use the management software for the device.

### Trap Status:

If the currently selected device is able to send Trap status to D-View and is not currently configured to do so, D-View 7 can attempt to configure the device. To do so, click on the "**Set D-View as Trap Server**" button. D-View 7 will attempt to make the necessary changes on the currently selected device and if successful, will change the interface to show that the option has been toggled on.

### Syslog Status:

If the currently selected device is able to send Syslog status to D-View and is not currently configured to do so, D-View 7 can attempt to configure the device. To do so, click on the "**Set D-View as Syslog Server**" button. D-View 7 will attempt to make the necessary changes on the currently selected device and if successful, will change the interface to show that the option has been toggled on.

### Spanning Tree:

If the selected managed switch supports the spanning tree protocol, D-View 7 can enable or disable the service. To enable the spanning tree protocol ensure that the on/off toggle is set to **On**.

### LLDP Status:

If the selected managed switch supports status updates from the Link Layer Discovery Protocol, D-View 7 can enable or disable the service. To enable LLDP status updates ensure that the on/off toggle is set to **On**.

### Safeguard Engine:

If the selected managed switch supports D-Link's Safeguard Engine, D-View 7 can enable or disable the service. To enable Safeguard

**POE Status:** Engine updates ensure that the on/off toggle is set to **On**.

SNTP / NTP Status OFF

DHCP Server Status Not Supported

Trap Status [Set D-View as Trap Server](#)

Syslog Status [Set D-View as Syslog Server](#)

Spanning Tree  ON

LLDP Status  ON

Safeguard Engine  ON

If the selected managed switch supports status updates for Power over Ethernet, D-View 7 can enable or disable the service. To enable PoE status updates ensure that the on/off toggle is set to **On**.

#### RMON:

If the selected managed switch supports status updates for Remote Network Monitoring, D-View 7 can enable or disable the service. To enable RMON status updates ensure that the on/off toggle is set to **On**.

#### SSH Status:

If the currently selected device supports remote SSH log in, information on the SSH service status will be displayed here. If the status is reported as "**Not Supported**" the service may still be available, but status notifications may not be enabled. To enable SSH, see **Batch Configuration** on page 58. By default, SSH is set to port 22.

#### Telnet Status:

If the currently selected device supports remote Telnet log in, the Telnet service for the device can be controlled by D-View 7. Use the toggle to enable or disable the remote Telnet service. If the status is reported as "**Not Supported**" the service may still be available, but status notifications may not be enabled. To enable status notifications for Telnet, use the management software for the device. By default, Telnet is set to port 23. If the Telnet service is running on a non standard port, enter the correct port by clicking on the edit button and entering the correct port value.

#### Web Status:

If the currently selected device supports remote web log in, the status of the web service for the device can be controlled by D-View 7. Use the toggle to enable or disable the remote web service. If the status is reported as "**Not Supported**" the service may still be available, but status notifications are not enabled. To enable status notifications for the web service, use the management software for the device. By default, Web Status is set to port 80. If the remote Web log in service is running on a non standard port, enter the correct port by clicking on the edit button and entering the correct port value.

POE Status

Not Supported

RMON

N/A

Settings	Port	Status
SSH Status	-	OFF
Telnet Status	23 	<input checked="" type="checkbox"/> ON 
Web Status	80 	<input checked="" type="checkbox"/> ON 

Settings	Port	Status
SSH Status	-	OFF
Telnet Status	23 	<input checked="" type="checkbox"/> ON 
Web Status	80 	<input checked="" type="checkbox"/> ON 

Settings	Port	Status
SSH Status	-	OFF
Telnet Status	23 	<input checked="" type="checkbox"/> ON 
Web Status	80 	<input checked="" type="checkbox"/> ON 



# Monitor

The **Monitor** section contains various views that give network administrators a visual overview of different aspects of their network. The default view for Monitor is the Device View Switch tab. The Device View list all of the discovered devices by category. Topology view shows how devices are interconnected with the use of topology maps. Rack View can be used to simulate physical racks, and network stack layouts. Event View keeps a log of all received events by discovered devices in chronological order. Monitor Logs displays captured Trap and Syslog messages from devices on the network.

To learn more about Device View, please refer to **Device View** on page 46.

To learn more about Topology View, please refer to **Topology View** on page 47.

To learn more about Rack View, please refer to **Rack View** on page 52.

To learn more about Event View, please refer to **Event View** on page 54.

To learn more about Monitor Logs, please refer to **Monitor Logs** on page 55.

# Device View

The **Device View** section shows devices listed by type and gives more insight into certain aspects of each type of hardware than the inventory page. The default view for Monitor is the switch tab. For each category of device, the status, most recent event, and other relevant information such as IP, MAC address, and others is shown. Clicking on a device's name or IP address will open that device's detail page. Clicking on the link to the probe that it is attached to will open the probe's detail page.

To export a list of all of the devices currently in the Managed device panel view, click on **Export** to download a CSV file that can be imported into a spreadsheet application.

Devices may also be filtered by entering a keyword into the search box. Available search options will automatically appear under the search box, select the field to filter the results by. The advance search will allow for multiple filtering criteria.

To reorder the current device panel view, click on the column title to sort by either ascending or descending. For some categories of devices, the column list can be customized by clicking on the "+" at the end of the column list. From the drop down menu, select which columns to display and click **Apply** to save the changes.

To manage a device, click on its corresponding **System Name**, or **IP Address** link.

Status	Event	System Name	IP	MAC	Model Name	Vendor	Location	Uptime	LLDP Status	Trap Status	System Status	App Version	FW Version	Attached Probe	DHCP Status
●	N/A	172.18.191.31		00:1C:F9:17:08:44	DGS-3200-15	D-Link	N/A	1 day 2:00:07	OFF	ON	ON	A1	2.00.016	Local Probe	Not Supported
●	N/A	172.18.191.09		00:1E:58:4F:FA:10	DES-3528	D-Link	N/A	1 day 2:00:22	ON	OFF	OFF	A1	2.00.017	Local Probe	Not Supported
●	111	172.18.191.43		00:15:83:48:38:79	DES-3516F	D-Link	003	1 day 2:00:04	Not Supported	Not Supported	Supported	N/A	N/A	Local Probe	Not Supported

Status	Event	System Name	IP	MAC	Model Name	Vendor	Location	Uptime	Managed AP	LLDP Status	Trap Status	System Status	Attached Probe	DHCP Status
●	N/A	172.18.191.209		14:06:40:60:66:60	DWS-3100-24C	D-Link	N/A	1 day 2:05:55	QoS	OFF	ON	OFF	Local Probe	Not Supported
●	048825-181,111	172.18.191.111		00:00:00:00:00:00	DWS-4026	D-Link	000-4026-111	1 day 2:19:54	-	ON	N/A	ON	Local Probe	OFF

Status	Event	System Name	IP	MAC	Model Name	Vendor	Location	Uptime	Connection Time	Managed Status	Managed by
●	N/A	172.18.191.247		SC:09:98:27:1C:00	DWL-8500AP	D-Link		1 day 0:20:58	0 day 0:00:01	Managed	(Admin) drc@cs.cmu.edu (172.18.191.20)
●	N/A	172.18.191.168		1C:A8:F7:1F:1F:40	DWL-8500AP	D-Link		1 day 2:05:49	0 day 0:00:01	Managed	(Admin) drc@cs.cmu.edu (172.18.191.20)
●		172.18.191.152		00:05:50:55:93:A0	DAP-3520	D-Link		0 day 17:26:23	N/A	Stand-alone	N/A

# Topology View

The Topology View creates network maps based on the interconnecting devices that have been discovered by a probe on a subnet. The default Topology View is the initial probe that was installed on the D-View 7 server system. Additional probes, and subnets are listed in the probe list, located on the left side of the screen.

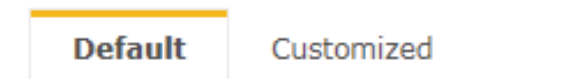
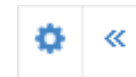
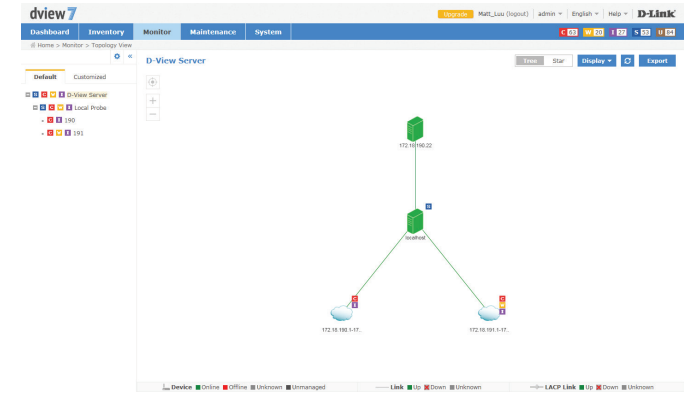
Clicking on the gear icon will display a menu that can be used to toggle the display of certain event levels for the devices that are shown in the topology map. Click the "<<" icon to hide the topology list.

The Topology View always shows the Default tab, which contains the D-View 7 probe, its subnet, and all devices on the subnet that have been discovered. To customize the view, click on the Customized tab. To create a new topology, click on the "+" located at the upper left hand corner of the topology list.

This will open the Create New Topology wizard. To generate a topology, choose to either Automatically, or Manually generate a topology.

**If Automatically generating a topology**, choose a central switch, will be the starting point for the topology map. Next, select the number of hops that should be included in the topology map. A list of linked devices will be shown that will be used to create the topology map. Click **Next** to continue.

**If Manually generating a topology**, select the devices that should be used from the list of available devices. Click **Next** to continue.



Create New Topology

1
2

**1. Choose Device**

Topology Generate Way

Automatically: Select one device and set hops to generate the topology

Manually: Generate the topology of selected devices

Choose a Central Switch\*

Choose one Item

Analysis topology within Hops of Chosen devices

2 Hops

Linked Devices						
System Name	IP	D-View Managed	Model Name	Device Type	Probe	Location
No Data Found						

Next

## Monitor

Enter a name for the topology map that will be shown in the topology list.

Optionally, enter a description to help identify the topology map.

Next, select the display type for the topology map. A star topology will show connections, starting from the central switch, moving outwards by the specified number of hops. A tree view reorients the same information in a top down view, starting with the central switch and moving downward by the specified number of hops.

The central device for display can also be changed by clicking on the drop down menu and selecting any listed device to be used as the starting point. Leaving the **Auto** option checked will create the map using the central switch that was selected in the previous step. Click **Back** to make any changes, or click **Apply** to save the new topology map.

Topology maps may also be filtered by entering a part or the whole name of the topology label into the search box.

The topology list can be reordered by clicking the left part of the name, and dragging the selected item either up or down in the list.

To rename or delete an topology map, click on the drop down menu item located on the right part of the topology name.

Navigating the topology map is done by left clicking anywhere on the map and dragging the map in the desired direction. Use the "+" or "-" controls to zoom in and out on the map. Clicking the target icon will zoom the map out and center it on the central switch for the current topology.

In the default topology view, the map layout can be changed from a top down tree, to a star view by clicking on either option. The **Display** button shows a drop down menu that can toggle the display of informational elements. Clicking the refresh icon will redraw the map with the most current information. Clicking the **Export** button will create a PNG image file of the current view.

The screenshot displays the 'Create New Topology' dialog box. It features a 'Topology Information' section with input fields for 'Name\*' and 'Description', radio buttons for 'Display Type' (Star and Tree), and a dropdown menu for 'Central Device for display' with an 'Auto' checkbox. Below the dialog is a list of existing topology maps, including 'Topology 1', 'Topo002', 'Topo001', and '191topo'. At the bottom, there are navigation and control buttons: 'Tree', 'Star', 'Display' (with a dropdown arrow), 'Export', and a search icon.

Hovering the mouse cursor over any device will open a pop up window that contains some basic information for that device, such as the devices IP address, MAC address, and recent events that originated from the device.

Event	Time	Alert Message
S	2014-06-11 11:14:15	2014/6/11 11:14:15 N/A (172.18.191.188) has been Discovered
S	2014-06-09 14:34:43	2014/6/9 14:34:43 N/A (172.18.191.115) has been Discovered
S	2014-06-09 09:32:45	2014/6/9 9:32:45 N/A (172.18.191.248) has been

In the customized topology view, it is also possible to edit the connections between devices. With a customized topology selected, click on the **Edit** button.



The top section of the topology map will change, displaying the edit functions available for the current topology map.

The **Auto Arrangement** button will open a pop up that enables changing the display type of the current topology map, as well as changing the central starting device.

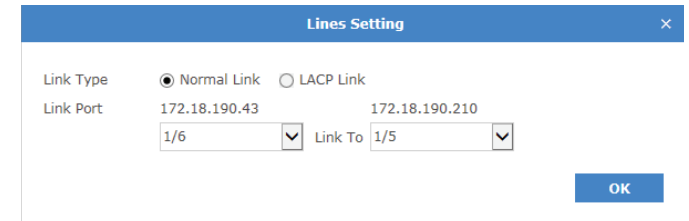
Display Type:  Star  Tree

Central Device for display: N/A  Auto

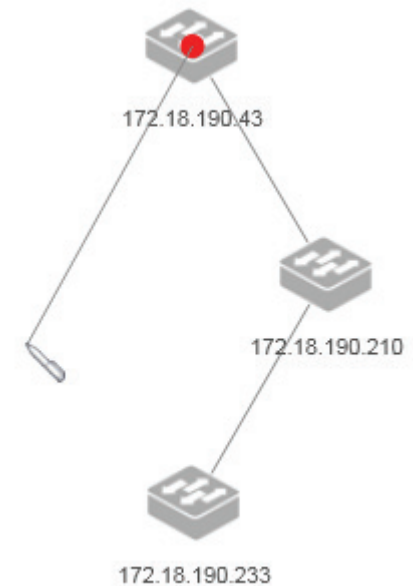
The **Edit Devices** button will open a pop up that can be used to select new devices to be added, or to remove existing devices. To remove existing devices, uncheck the device and click **Save**. To add new devices, click **All**. The device list will refresh and display all available devices. Check which devices to add and click **Save**.

	System Name	IP	D-View Managed	Model Name	Device Type	Probe	Location	Label
<input checked="" type="checkbox"/>	N/A	172.18.191.164	Yes	DWL-6600AP	Unified AP	Local Probe	N/A	N/A
<input checked="" type="checkbox"/>	N/A	172.18.191.247	Yes	DWL-8600AP	Unified AP	Local Probe	N/A	N/A
<input checked="" type="checkbox"/>	N/A	192.168.0.17	Yes	N/A	Unknown	000	N/A	N/A

The **Edit Lines** button will open a pop up that can be used to change the type of line that is shown connecting devices. Click on any line between two devices and then click **Edit Lines**. The **Link Type** can be changed from **Normal Link**, to **LACP Link** and the subnet type can also be set. Click **OK** to save any changes.



Drawing new connections between devices is done by hovering over an existing device. A red dot will appear and the mouse cursor will change to a pencil cursor. Click and drag from the existing device to any other device to create the line. To edit the newly created link, click the line and then click **Edit Lines**.



Any existing line or device can also be deleted by clicking the desired link or device and then clicking the **Delete** button.



To support a 3rd party device:

1. If the 3rd party's information has been configured in the Customized Identified Device Model List (see **About** on page 74), and if the device supports LLDP, D-View 7 will automatically create a link with the device.

To do this, the information in the "Start Port Index" and "Port Count" fields needs to be identical with the device's SNMP MIB ifTable. These fields can be reached by going to the **About** page, clicking on the **Customized Identified Device Model List** tab, and pressing the **Edit** button in the Action column.

2. If the 3rd party device cannot fulfill the criteria mentioned above, a link can be drawn manually in the Customized Topology view.

# Rack View

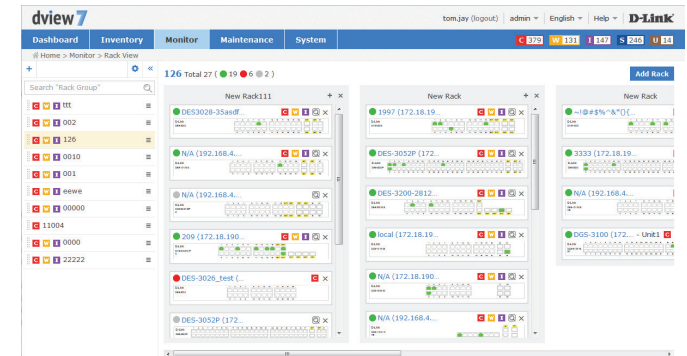
The Rack View creates virtual racks that can simulate physical racks, or be used to group devices based on preference. Multiple racks are listed in the rack list, located on the left side of the screen.

To create a new rack group click on the "+" sign in the upper left corner of the rack group column. A pop up window will open; enter a unique rack group name, and add a description to describe the rack group. Click **Create** to save the rack group to the rack group list. Labels are unique to the workspace that the user is currently in, and users in the same workspace will share labels.

The newly created rack group will appear in a column list on the left side of the browser. To add another rack group, click on the "+" sign at the top of the rack group list. To hide the rack group list from view, click the "<<" sign at the top of the rack group list. Rack groups may also be filtered by entering a part or the whole name of the rack group into the search box.

The rack group list can be reordered by clicking the left part of the label name, and dragging the selected item either up or down in the list.

To rename or delete an rack group, click on the drop down menu item located on the right part of the rack group name.

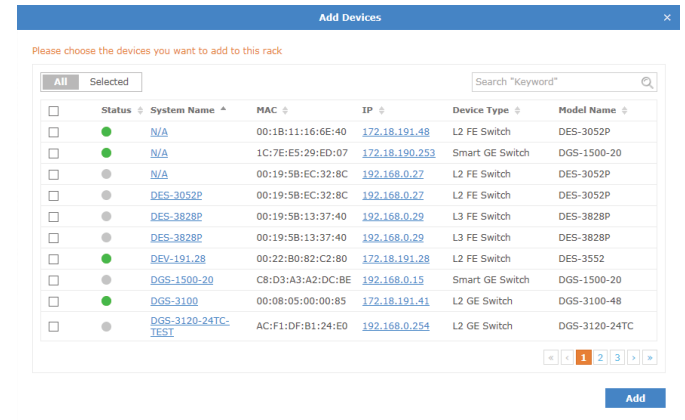
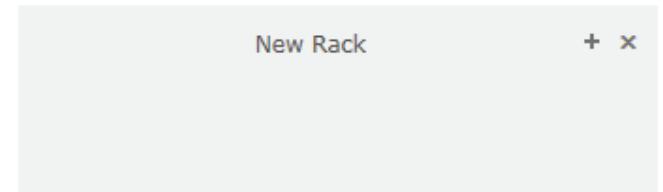




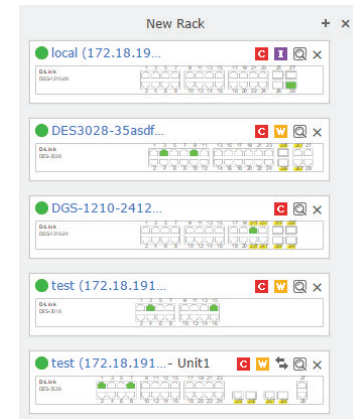
# Monitor

To create a rack click the **Add Rack** button. This will add an empty rack to the rack view for the current rack group. The rack will be empty, and created with the default title of "New Rack" To change the rack title, click the title and enter the desired value. To add a device to the rack, click the "+" sign in the upper right corner of the virtual rack.

Clicking the "+" sign will open a pop up window with a list of available devices. Select the devices to add to the rack and click **Add**.



Newly added devices will be added into the rack. Devices can be moved between racks by clicking and dragging the desired device to any available rack.



# Event View

The **Event View** shows a list of all received events from devices that have been discovered and all system events that have taken place on the D-View 7 server. By default, the Event View shows the **Device** tab, which list events for discovered devices. To show events for the D-View 7 server, click on the **System** tab.

Each tab in **Event View** has an **Active Events** section, as well as an **Acknowledged Events** section. New events will be stored in the Active Events section until they have been marked as acknowledged. To move between each section, click on either the **Active Events** button or **Acknowledged Events** button.

To archive events, use the check box to select the event. The **Acknowledge** button will appear in the upper left corner of the Event View window.

Events may also be filtered by entering a keyword into the search box. Available search options will automatically appear under the search box, select the field to filter the results by. The advance search will allow for multiple filtering criteria.

To export a list of all of the events for the currently selected section, click on the **Export** button which will download a CSV file that can be imported into a spreadsheet application.

While in the **Device** tab, clicking on the link to a source will open a new window with the detailed device view for that event.

Event	Time	Source	Alert Message	Acknowledged Events
<input type="checkbox"/>	2014-05-09 11:30	CPU Utilization	CPU Utilization >= 80% for 1 Times	Yes
<input type="checkbox"/>	2014-05-09 11:30	CPU Utilization	CPU Utilization >= 90% for 1 Times	Yes
<input type="checkbox"/>	2014-05-09 11:28	CPU Utilization	CPU Utilization >= 70% for 1 Times	Yes
<input type="checkbox"/>	2014-05-09 11:28	CPU Utilization	CPU Utilization >= 90% for 1 Times	Yes
<input type="checkbox"/>	2014-05-09 11:27	CPU Utilization	CPU Utilization >= 90% for 1 Times	Yes
<input type="checkbox"/>	2014-05-09 11:25	CPU Utilization	CPU Utilization >= 70% for 1 Times	Yes
<input type="checkbox"/>	2014-05-09 11:25	CPU Utilization	CPU Utilization >= 80% for 1 Times	Yes
<input type="checkbox"/>	2014-05-09 11:21	CPU Utilization	CPU Utilization >= 70% for 1 Times	Yes
<input type="checkbox"/>	2014-05-09 11:17	CPU Utilization	CPU Utilization >= 90% for 1 Times	Yes
<input type="checkbox"/>	2014-05-09 11:17	CPU Utilization	CPU Utilization >= 90% for 1 Times	Yes
<input type="checkbox"/>	2014-05-09 11:17	CPU Utilization	CPU Utilization >= 90% for 1 Times	Yes
<input type="checkbox"/>	2014-05-09 11:17	CPU Utilization	CPU Utilization >= 90% for 1 Times	Yes
<input type="checkbox"/>	2014-05-09 11:16	CPU Utilization	CPU Utilization >= 90% for 1 Times	Yes
<input type="checkbox"/>	2014-05-09 11:16	Ping	Response Time >= 600ms for 1 Times	Yes
<input type="checkbox"/>	2014-05-09 11:08	CPU Utilization	CPU Utilization >= 90% for 1 Times	Yes
<input type="checkbox"/>	2014-05-09 10:08	CPU Utilization	CPU Utilization >= 90% for 1 Times	Yes
<input type="checkbox"/>	2014-05-08 20:20	Wired Traffic	TX >= 100Gbps for 1 Times	Yes
<input type="checkbox"/>	2014-05-08 19:35	Wired Traffic	RX >= 100Gbps for 1 Times	Yes
<input type="checkbox"/>	2014-05-08 18:03	Wired Traffic	TX >= 100Gbps for 1 Times	Yes

Event	Time	Source	Action	Target	Alert Message
<input type="checkbox"/>	2014-05-08 17:47	Local Probe (localhost)	Discover	N/A (172.18.190.49)	2014/5/8 17:47:02 N/A (172.18.190.49) has been Discovered
<input type="checkbox"/>	2014-05-08 17:46	Local Probe (localhost)	Discover	D-Link (172.18.190.233)	2014/5/8 17:46:44 D-Link (172.18.190.233) has been Discovered
<input type="checkbox"/>	2014-05-08 16:43	Local Probe (localhost)	Discover	N/A (172.18.190.26)	2014/5/8 16:43:54 N/A (172.18.190.26) has been Discovered
<input type="checkbox"/>	2014-05-08 16:43	Local Probe (localhost)	Manage	N/A (172.18.190.209)	2014/5/8 16:43:18 N/A (172.18.190.209) has been Managed
<input type="checkbox"/>	2014-05-08 16:41	admin	Manage	D-Link OMP-2500 (172.18.191.153)	2014/5/8 16:41:01 D-Link OMP-2500 (172.18.191.153) has been Managed
<input type="checkbox"/>	2014-05-08 16:40	admin	UnManaged	N/A (172.18.190.233)	2014/5/8 16:40:54 N/A (172.18.190.233) and N/A (172.18.191.132) have been UnManaged
<input type="checkbox"/>	2014-05-08 16:11	Local Probe (localhost)	Discover	N/A (172.18.190.126)	2014/5/8 16:11:12 N/A (172.18.190.126) has been Discovered
<input type="checkbox"/>	2014-05-07 20:57	Local Probe (localhost)	Discover	N/A (172.18.190.222)	2014/5/7 20:57:58 N/A (172.18.190.222) has been Discovered
<input type="checkbox"/>	2014-05-07 15:45	Local Probe (localhost)	Discover	D-Link OMP-2500 (172.18.191.153)	2014/5/7 15:45:05 D-Link OMP-2500 (172.18.191.153) has been Discovered
<input type="checkbox"/>	2014-05-05 16:35	Local Probe (localhost)	Discover	N/A (172.18.191.243)	2014/5/5 16:35:05 N/A (172.18.191.243) has been Discovered
<input type="checkbox"/>	2014-05-05 15:32	Local Probe (localhost)	Discover	N/A (172.18.190.50)	2014/5/5 15:32:25 N/A (172.18.190.50) has been Discovered
<input type="checkbox"/>	2014-05-05 13:58	Local Probe (localhost)	Discover	N/A (172.18.191.248)	2014/5/5 13:58:55 N/A (172.18.191.248) has been Discovered
<input type="checkbox"/>	2014-05-05 11:21	Local Probe (localhost)	Discover	N/A (172.18.190.53)	2014/5/5 11:21:08 N/A (172.18.190.53) has been Discovered
<input type="checkbox"/>	2014-05-05 09:47	Local Probe (localhost)	Discover	N/A (172.18.190.71)	2014/5/5 9:47:54 N/A (172.18.190.71) has been Discovered
<input type="checkbox"/>	2014-05-05 09:47	Local Probe (localhost)	Discover	N/A (172.18.190.48)	2014/5/5 9:47:52 N/A (172.18.190.48) has been Discovered
<input type="checkbox"/>	2014-05-05 09:47	Local Probe (localhost)	Discover	N/A (172.18.190.27)	2014/5/5 9:47:50 N/A (172.18.190.27) has been Discovered
<input type="checkbox"/>	2014-05-05 09:47	Local Probe (localhost)	Discover	N/A (172.18.190.18)	2014/5/5 9:47:47 N/A (172.18.190.18) has been Discovered
<input type="checkbox"/>	2014-05-04 16:45	Local Probe (localhost)	Discover	N/A (172.18.191.223)	2014/5/4 16:45:10 N/A (172.18.191.223) has been Discovered
<input type="checkbox"/>	2014-05-04 14:09	Local Probe (localhost)	Discover	N/A (172.18.191.176)	2014/5/4 14:09:46 N/A (172.18.191.176) has been Discovered
<input type="checkbox"/>	2014-05-04 14:09	Local Probe (localhost)	Discover	N/A (172.18.190.224)	2014/5/4 14:09:31 N/A (172.18.190.224) has been Discovered

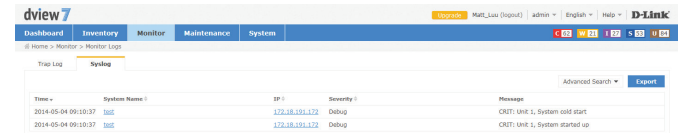
# Monitor Logs

The **Monitor Logs** view shows a list of all received Trap and Syslog events from devices that have been discovered. By default, the **Monitor Logs** view shows the **Trap Log** tab, which lists Trap events for discovered devices. To show Syslog events for discovered devices, click on the **Syslog** tab.

Events may also be filtered by entering a keyword into the search box. Available search options will automatically appear under the search box, select the field to filter the results by. The advanced search will allow for multiple filtering criteria.

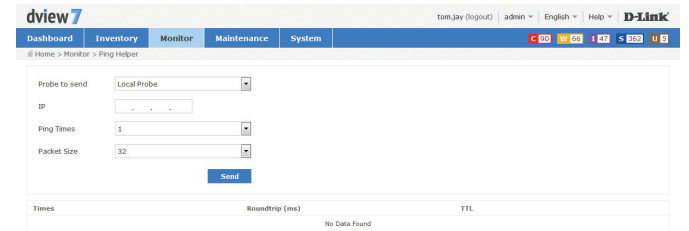
To export a list of all of the events for the currently selected section, click on the **Export** button, which will download a CSV file that can be imported into a spreadsheet application.

While in either tab, clicking on the link to a source will open a new window with the detailed device view for that event.



# Ping Helper

The **Ping Helper** page is used to perform a ping test from either the local or remote probe. The IP address to be pinged, the number of pings and the packet size can be entered, and the results are shown in the bottom half of the window.



The screenshot shows the 'dview 7' web interface. The top navigation bar includes 'Dashboard', 'Inventory', 'Monitor', 'Maintenance', and 'System'. The 'Monitor' tab is active. The breadcrumb trail is 'Home > Monitor > Ping Helper'. The page contains a form with the following fields:

- 'Probe to send': A dropdown menu with 'Local Probe' selected.
- 'IP': A text input field.
- 'Ping Times': A dropdown menu with '1' selected.
- 'Packet Size': A dropdown menu with '32' selected.

A blue 'Send' button is located below the form fields. Below the form is a table with the following structure:

Times	Roundtrip (ms)	TTL
No Data Found		

# Maintenance

The Maintenance section contains **Batch Config, Firmware Management, Config Management, Task Management**.

**Batch Config** contains a number of different templates that can be used to configure multiple devices at the same time. It is also possible to use the built-in **Script Template** editor to create customized templates that can be saved for later use.

**Firmware Management** is used to deploy firmware upgrades to multiple devices at the same time.

**Config Management** is used to backup and restore configurations for a single or multiple devices at the same time.

**Task Management** is used to view and manage currently running as well as historical task.

To learn more about **Batch Config** please refer to **Batch Configuration** on page 58.

To learn more about **Firmware Management** please refer to **Firmware Management** on page 59.

To learn more about **Config Management** please refer to **Configuration Backup & Restore** on page 60.


To learn more about **Task Management** please refer to **Task Management** on page 63.

# Batch Configuration

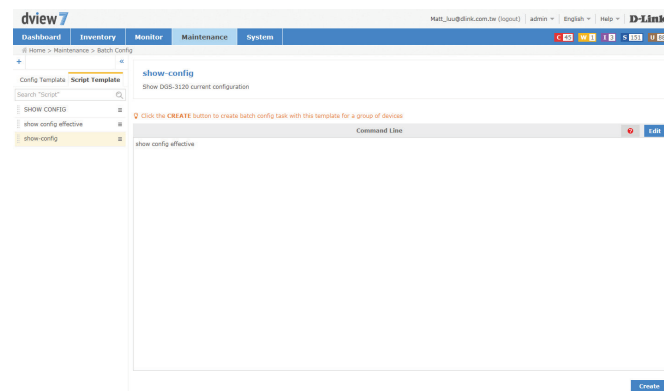
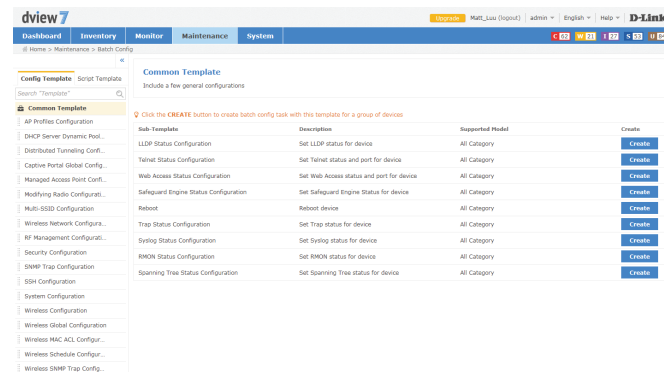
Groups of devices can be simultaneously configured or controlled using the **Batch Config** utility. There are a number of default configuration templates that can be used, which are sorted by the device type they are applicable to.

The default view for **Batch Config** is the **Common Template** section. The general configuration templates listed apply to a range of devices. To begin using a template. Click on the **Create** button. A pop up window will appear that will list the steps necessary to create a task that can either be run on a recurring basis, or one time only. The steps to complete task creation are outlined below:

1. Set the configuration behavior. For example, the **LLDP Status Configuration** task has the option to either enable or disable the LLDP status setting on a device.
2. Select the device(s) that the task will be assigned to.
3. Set the name of the task. This will be the name that the task will be identified as on the device. Optionally, set a description and a schedule to run the task.
4. Check to ensure that all of the details of the task are correct. If they are, click **Submit** to finalize the task. Otherwise, click **Back** to make any desired changes.

Customized batch configurations can also be created by using the **Script Template** function. To create a custom template, click on the **Script Template** tab and then click on the "+" sign at the top of the script template list. A pop up window will open where the custom script name, description, and custom commands can be entered. Basic guidelines for creating custom scripts can be found in the online help, which can be accessed by clicking on the  button at the upper right corner of the command line input box.

Once a custom script has been successfully created, a new task for the custom script can be made by clicking on the Create button at the lower right corner of the **Script Template** view. The process for creating a new task is the same as the one used with the pre-made batch configuration templates found in the Config Template tab.



# Firmware Management

The **Firmware Management** view is used to manage the deployment and tracking of firmware to devices on the network. The default view for **Firmware Management** shows a list of devices that have been remotely upgraded using D-View 7's firmware deployment feature. The list can be sorted and searched using the advance search function. Deploying new firmware to a single device or multiple devices can be accomplished by clicking the **Firmware Upgrade** button. A pop up window will open where the firmware binary and the target devices can be selected.

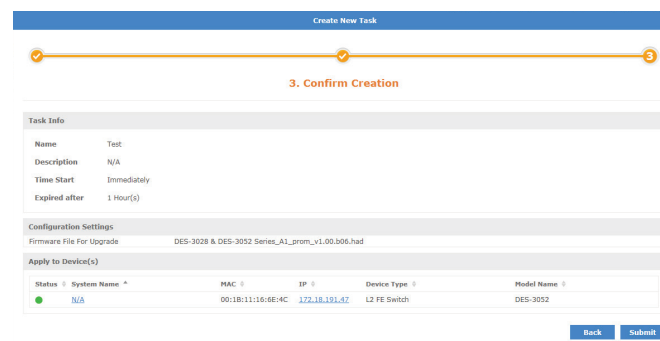
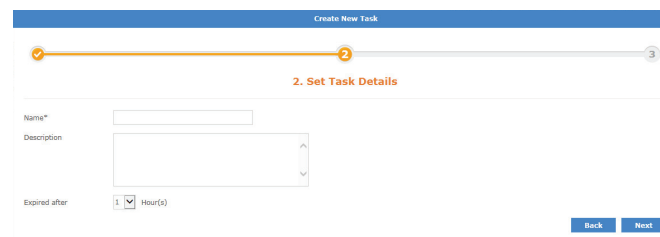
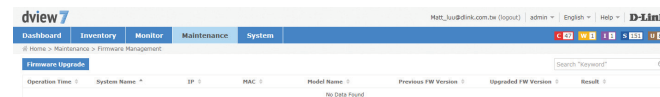


**Note:** Ensure that the firmware binary selected matches the type of device selected in the first step of the firmware deployment process. Selecting the wrong type of device will cause the process to not complete properly.

It is also important to follow any precautions listed on the firmware download page to ensure that the process completes without any issues.

After selecting the proper firmware binary and selecting the proper device to upload the firmware into, click **Next**. Set the task details that will be used to identify the job for that device. Optionally, set a description and a time to live for the job. The default expiration time for the firmware upgrade process is 1 hour. Click **Next** to continue.

Confirm all of the details are correct and click **Submit** to finalize the firmware upgrade process. Click **Back** to make any changes. The task will begin immediately and the status of the task can be found by going to the **Task Management** view under the **Maintenance** section. To find out more about Task Management, please see **Task Management** on page 63.



# Configuration Backup & Restore

The **Config Management** view is used to backup and restore configurations for a single or multiple devices at the same time. The default view for Config Management shows a list of previous backup or restore task that have been performed. The list can be sorted by any of the listed columns, and can be filtered using the advance search feature. The **Export** button will download a copy of all the jobs currently displayed.

To backup a single device or multiple device configuration, click on the **Backup** button.

A pop up window will open which can be used to select the device(s) that will have their configurations backed up. Click **Next** to continue.

Enter a name for the task that will be used by D-View 7's Task Management feature to track the backup process. Optionally, enter a description and the frequency of the backup job that will be performed. If necessary, the start time can also be delayed, or time to live can be adjusted to allow the backup job more time to complete. Click **Next** to continue.

Operation Time	Type	System Name *	IP	MAC	Model Name	Result
2014-04-26 15:43	Backup	N/A	172.18.192.31	00:1C:F0:17:08:44	DOS-3200-10	Success
2014-04-26 15:43	Backup	111	172.18.192.43	00:15:E9:48:3B:70	DES-3010F	Success
2014-04-26 15:43	Backup	2000AF	172.18.192.11	00:22:44:66:88:00	DWL-3600AP	Success
2014-04-26 15:43	Backup	A_B	172.18.192.28	00:04:00:FB:7F:CD	DOS-3200-24	Success
2014-04-26 15:43	Backup	DES-3028	172.18.192.44	00:13:4E:ED:3E:3C	DES-3028	Success
2014-04-26 15:43	Backup	DES-3052_2222	172.18.192.47	00:18:11:16:6E:4C	DES-3052	Success
2014-04-26 15:43	Backup	DES-3200-26-ctrl0	172.18.192.06	00:1E:58:EE:A6:69	DES-3200-28	Success
2014-04-26 15:43	Backup	gw3120-24rc	172.18.192.30	34:98:0A:54:F7:3F	DOS-3120-24TC	Success
2014-04-26 15:43	Backup	DOS-3050_192.210	172.18.192.210	00:1C:9D:75:AC:80	DOS-3050	Success
2014-04-26 15:43	Backup	D-LINK	172.18.192.32	00:47:44:35:26:29	DES-3026	Success
2014-04-26 15:43	Backup	D-LINK_8600_AF	172.18.192.161	1C:AFF7:1F:25:00	DWL-8600AP	Success
2014-04-26 15:43	Backup	D-LINK_AF	172.18.192.247	5C:D9:98:27:1C:00	DWL-8600AP	Success
2014-04-26 15:43	Backup	D-LINK_DAP-2310	172.18.192.110	00:DE:FA:25:C0:00	DAP-2310	Success
2014-04-26 15:43	Backup	D-LINK_DAP-2360	172.18.192.103	5C:D9:98:03:80:05	DAP-2360	Success
2014-04-26 15:43	Backup	D-LINK_DAP-2553	172.18.192.151	00:05:0D:84:04:01	DAP-2553	Success
2014-04-26 15:43	Backup	D-LINK_DAP-2690	172.18.192.156	00:11:22:33:44:55	DAP-2690	Success
2014-04-26 15:43	Backup	D-LINK_DAP-3690	172.18.192.166	FC:75:16:29:66:60	DAP-3690	Success
2014-04-26 15:43	Backup	D-LINK_WLAN_AF	172.18.192.151	00:1C:F0:08:6E:69	DWL-8500AP	Success
2014-04-26 15:43	Backup	a_b	172.18.192.28	00:18:58:4F:FA:10	DES-3028	Success
2014-04-26 15:43	Backup	test	172.18.192.43	00:13:4E:ED:3E:44	DES-3028	Success

**1. Device**

Status	System Name *	MAC	IP	FW Version	HW Version	Location	Model Name	Label
<input type="checkbox"/>	N/A	00:18:11:16:6E:4C	172.18.192.47	2.00.827	6C 64 20 32 2E 30 30 2E 80 41 F2 00_A_	N/A	DES-3052	
<input type="checkbox"/>	N/A	00:18:11:16:6E:40	172.18.192.48	1.00-932	6C 64 20 31 2E 30 30 20 80 41 F 1 B0 1_00_A_	N/A	DES-3052P	N/A
<input type="checkbox"/>	N/A	1C:7E:ES:29:ED:07	172.18.192.253	2.10.002	A1	N/A	DOS-1500-20	N/A
<input type="checkbox"/>	N/A	00:19:58:EC:32:8C	192.168.0.27	1.00-830	6C 64 20 31 2E 30 30 20 80 34 F 1 AC 1_00_A_	N/A	DES-3052P	N/A
<input type="checkbox"/>	ctrl0>cdvcs>ctrl0	00:17:9A:95:20:14	172.18.192.06	4.2.0.2	N/A	124	DWS-4026	N/A
<input type="checkbox"/>	111	00:15:E9:48:3B:70	172.18.192.43	N/A	N/A	023	DES-3010F	
<input type="checkbox"/>	123	00:17:9A:95:1F:00	172.18.192.93	3.0.0.14	N/A	11	DWS-3026	N/A
<input type="checkbox"/>	a	00:05:5D:55:93:A0	172.18.192.152	1.15	N/A	N/A	DAP-3520	
<input type="checkbox"/>	A_B	00:24:01:FB:7F:CD	172.18.192.38	2.00.016	A1	TEST Lab	DOS-3200-24	
<input type="checkbox"/>	DAP-2690-B1	78:54:2E:AD:6B:D0	192.168.0.28	3.00	N/A	DHQ-Nehru	DAP-2690B	N/A

**Next**

**2. Set Task Details**

Name\*

Description

Type  One Time  Recurrent

Time Start

Expired after  Hour(s)

**Back** **Next**



Confirm all of the details are correct and click **Submit** to finalize the configuration backup process. Click **Back** to make any changes. The task will begin immediately and the status of the task can be found by going to the **Task Management** view under the **Maintenance** section. To find out more about Task Management, please see **Task Management** on page 63.

To begin the configuration restore process, click on the **Restore** button. A pop up window will open which can be used to select the source file for the configuration restore process. Choosing the **System** option will use a configuration file for a device that has been successfully backed up using the D-View 7 backup process. Choosing the **System** option allows for multiple devices to be restored at the same time, provided that the device has been successfully backed up using the D-View 7 backup process previously.

The **Upload** option will allow a single device to be restored, using a configuration file that has been generated for a specific device. Click **Next** to continue.

**If the System option was chosen**, select the device(s) that will have its configuration restored. The device list will show the last configuration backup that was successfully performed. Devices can be filtered by using the advance search feature. Click **Next** to continue.

Status	System Name	MAC	IP	Device Type	Model Name
	N/A	00:19:58:EC:32:8C	192.168.0.27	L2 FE Switch	DES-3052P

System  
You can restore devices which have been backed up in D-View 7. You should restore the config file separately for each of the selected devices.

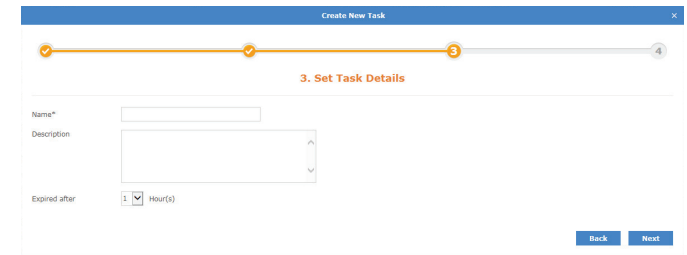
Upload  
You can upload one file for the devices that you want to be restored.

No File

Status	System Name	MAC	IP	Location	Model Name	Label	Backup File*
<input type="checkbox"/>	N/A	00:18:11:16:6E:4C	172.18.191.47	N/A	DES-3052		2014/6/3 16:23:34_172.18.191.47P
<input type="checkbox"/>	N/A	00:18:11:16:6E:40	172.18.191.48	N/A	DES-3052P	N/A	2014/6/3 16:23:34_172.18.191.48P
<input type="checkbox"/>	111	00:15:E9:4B:3B:70	172.18.190.43	023	DES-3010F		2014/6/3 16:23:33_172.18.190.43P
<input type="checkbox"/>	123	00:17:9A:95:1F:00	172.18.191.95	11	DWS-3026	N/A	2014/6/3 16:23:33_172.18.191.95P
<input type="checkbox"/>	A_B	00:00:3D:35:93:A0	172.18.191.132	N/A	DAP-3520		2014/5/30 19:29:34_172.18.191.13P
<input type="checkbox"/>	A_B	00:24:01:FB:7F:C9	172.18.191.38	TEST Lab	DGS-3200-24		2014/6/3 16:23:34_172.18.191.38P
<input type="checkbox"/>	DES-3026	00:13:46:ED:3E:5C	172.18.191.44	Beijing1111	DES-3026		2014/6/3 16:23:33_172.18.191.44P
<input type="checkbox"/>	DES3028-25	00:18:11:B1:5A:FC	172.18.191.35	123	DES-3028		2014/6/3 16:23:33_172.18.191.35P
<input type="checkbox"/>	DES-3200-28	00:1E:58:6E:A6:ED	172.18.191.46	ssssss	DES-3200-28		2014/5/30 19:29:34_172.18.191.46P
<input type="checkbox"/>	DGS-1210-24	00:18:E7:74:29:F7	172.18.191.12	B1_LAB_ops_1210-24	DGS-1210-24		2014/6/3 16:23:33_172.18.191.12P

Enter a name for the task that will be used by D-View 7's Task Management feature to track the restore process. Optionally, enter a description or adjust the time to live to allow the restore job more time to complete. Click **Next** to continue.

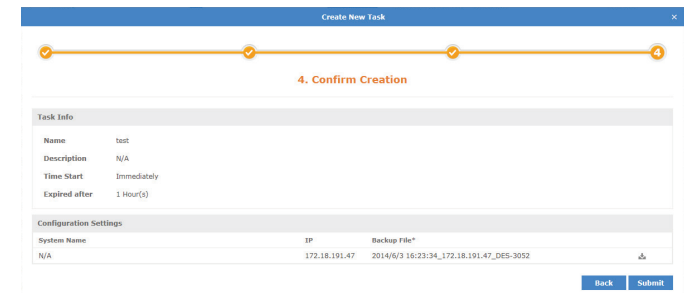
Confirm all of the details are correct and click **Submit** to finalize the configuration restore process. Click **Back** to make any changes. The task will begin immediately and the status of the task can be found by going to the **Task Management** view under the **Maintenance** section. To find out more about Task Management, please see **Task Management** on page 63.



The screenshot shows the 'Create New Task' dialog box at step 3, 'Set Task Details'. A progress bar at the top indicates four steps, with step 3 highlighted. The form contains the following fields:

- Name\***: A text input field.
- Description**: A text area with a scroll bar.
- Expired after**: A dropdown menu with '1 Hour(s)' selected.

Buttons for 'Back' and 'Next' are located at the bottom right.



The screenshot shows the 'Create New Task' dialog box at step 4, 'Confirm Creation'. The progress bar shows all four steps completed. The form displays the following information:

**Task Info**

Name	test	
Description	N/A	
Time Start	Immediately	
Expired after	1 Hour(s)	

**Configuration Settings**

System Name	IP	Backup File*
N/A	172.18.191.47	2014/6/3 16:23:34_172.18.191.47_DES-3052

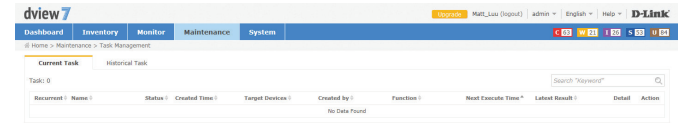
Buttons for 'Back' and 'Submit' are located at the bottom right.

# Task Management

The **Task Management** view is used to view and manage currently running as well as track task that have been previously run. The default view for Task Management shows a list of current task that are being performed, as well as task that occur on a recurring basis. The list can be sorted by any of the listed columns, and can be filtered using the advance search feature. The **Export** button will download a copy of all the jobs currently displayed.

The latest results for any job can be seen by clicking on the link listed in the **Latest Result** column. Details for the job can also be found by clicking on the **Magnifying Glass** icon. Clicking on the **Pause** icon will cause the job to suspend until the **Play** icon is clicked, resuming the job. The **Trash** icon will delete the job.

To view a list of previously completed task, click on the **Historical** tab. The Historical Task list can be sorted by any of the listed columns, and can be filtered using the advance search feature. The **Export** button will download a copy of all the jobs currently displayed.



# System

The System section contains **License, Discovery, User / Workspace, Sensor Settings, Notification Center, System Logs**, and **About**.

The **License** page is used to view and manage licenses for nodes as well as probes that are attached to the D-View 7 server.

The **Discovery** page is used to manage the discovery function of the different probes that are used to discover devices.

The **User/Workspace** page is used for account and workspace management.

The **Sensor Settings** page is used to create sensors that are used by devices to generate the data needed for the device dashboard widgets.

The **Notification Center** is used to generate notifications when a notification rule is matched. Notifications can be either emails or script execution.

The **System Logs** page is used to view system events that have taken place on the D-View 7 server.

The **About** page shows information related to D-View 7.

To learn more about **License** please refer to **License** on page 65.

To learn more about **Discovery** please refer to **Discovery & Probe Setting** on page 67.

To learn more about **User/Workspace** please refer to **User Management** on page 68.

To learn more about **Sensor Settings** please refer to **Sensor Settings** on page 70.

To learn more about the **Notification Center** please refer to **Notification Center** on page 71.

To learn more about **System Logs** please refer to **System Logs** on page 73.

To learn more about **About** please refer to **About** on page 74.

# License

The License view allows the D-View 7 administrator to perform activations for adding nodes or probes, as well as managing existing licenses. The License List **Export** button will download a copy of all the data for both probes and nodes. The Probe List **Export** button will download all of the information related to probes that are currently on the network.

To add a new license for either a probe or node, click on the **Add License** button. This will open a pop up window that will start the activation wizard. To find out more about the activation process, please see **Activation** on page 25.

To deactivate a license, click on the **Deactivate License** button. This will disassociate the D-View 7 licence with the server and deactivate D-View 7. This could be used to re-allocate licenses to another server, if a server move or replacement is required, or return the server to factory defaults. This cannot be reversed, and once D-View 7 is deactivated, it is not possible to use D-View 7 until it is reset or reinstalled.



If you choose the **Deactivate License** option, all of the license(s) listed will be released at the same time. It is not possible to deactivate a single license number.

Click the **I understand the risk and confirm to deactivate** check box to confirm that you wish to go ahead with the licence deactivation. Once you have done this, you will be presented with 3 options: **Export Database**, **Reset System** and **Logout**. The **Export Database** option allows you to back up the database for use in a new installation of D-View 7. The **Reset System** option will reset D-View 7 and remove all configuration and device information from the server. The **Logout** option allows you to log out from the D-View 7 interface.

License NO.	Activation Date	Probe	Node
23C21DF1727DD70A9B75	2014-08-11 15:08	0	1000
2C9FCC901110CDAC1B6E	2014-05-13 14:12	0	50
23C21DF1727DD70A9B75	2014-08-11 15:08	0	1000
2C9FCC901110CDAC1B6E	2014-05-13 14:12	0	50
7F78D9595A01A8441929	2014-05-16 19:11	0	100
23C21DF1727DD70A9B75	2014-08-11 15:08	0	1000
2C9FCC901110CDAC1B6E	2014-05-13 14:12	0	50
ACE1E98B66439962C05B	2014-05-16 11:44	0	100
7F78D9595A01A8441929	2014-05-16 19:11	0	100
23C21DF1727DD70A9B75	2014-08-11 15:08	0	1000
2C9FCC901110CDAC1B6E	2014-05-13 14:12	0	50

License NO.	Registration Date	Probe Server	Node
23C21DF1727DD70A9B75	2014-08-11 15:08	0	1000
2C9FCC901110CDAC1B6E	2014-05-13 14:12	0	50
23C21DF1727DD70A9B75	2014-08-11 15:08	0	1000
2C9FCC901110CDAC1B6E	2014-05-13 14:12	0	50
7F78D9595A01A8441929	2014-05-16 19:11	0	100
23C21DF1727DD70A9B75	2014-08-11 15:08	0	1000
2C9FCC901110CDAC1B6E	2014-05-13 14:12	0	50
ACE1E98B66439962C05B	2014-05-16 11:44	0	100
7F78D9595A01A8441929	2014-05-16 19:11	0	100

**WARNING**

The process CANNOT be reversed. Once you deactivated, you CANNOT use the D-View 7 anymore. You cannot use this system until you reset or reinstall D-View 7. The license(s) listed above will be released at the same time. Are you sure you want to deactivate D-View 7?

I understand the risk and confirm to deactivate.

Confirm

To unbind licences, click the **Unbind License** button. This will disassociate the D-View 7 licence with the server, but leave you with a trial version of D-View 7. This could be used to re-allocate licenses to another server, if a server move or replacement is required. Once this has been done, a dialog box will pop up, asking you to confirm the action. Click **OK** to confirm that you wish to unbind the licenses with the server.

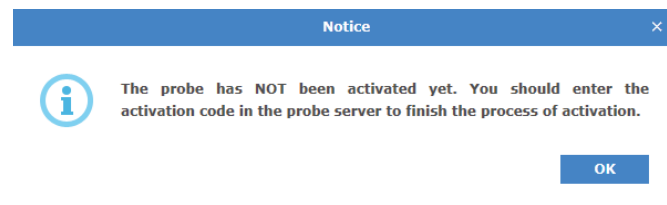
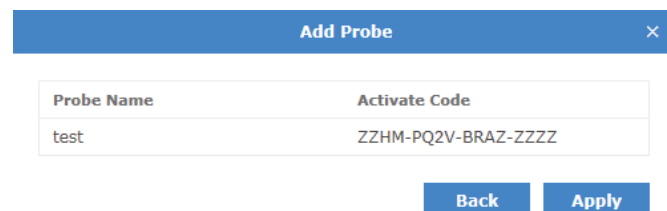
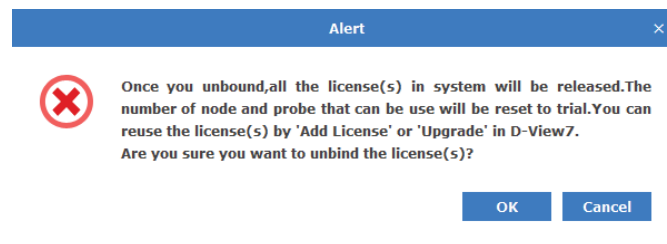


If you choose the **Unbind License** option, and D-View 7 is returned to the trial version, if you have more than 25 managed nodes or more than 2 probes, D-View 7 will stop monitoring all devices until the extra nodes and probes are removed from the system.

Activating a probe is a two part process. To activate a probe, first add the additional probe license following the activation process outlined on 25. Next, click on the **Add Probe** button in the Probe Server List section of the License view. Enter a name to help identify the probe. Click **Next** to continue.

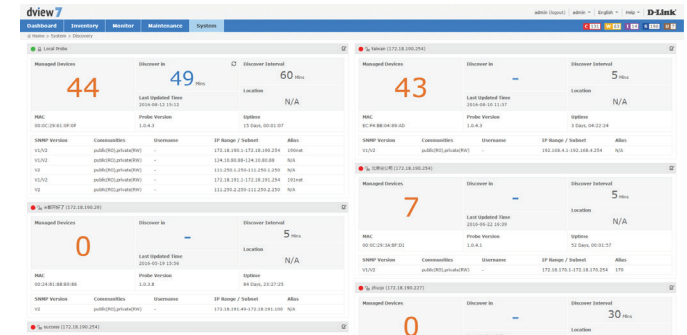
D-View 7 will automatically assign an available license code to the newly created probe. It will also issue an activation code that will need to be entered into the probe server to activate it.

Write down the activation code, and enter it into the remote probe server to finish the probe activation process. The probe will remain inactive on D-View 7 server until the activation code has been entered and has successfully connected back to the D-View 7 server.

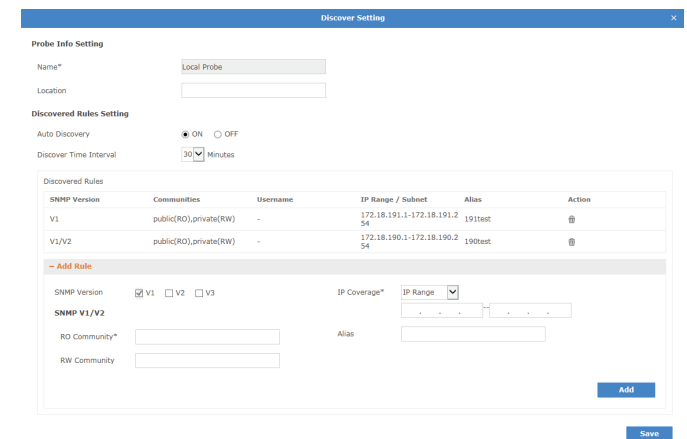


# Discovery & Probe Setting

The **Discovery** view allows the D-View 7 administrator to monitor and manage active probes that are paired with the D-View 7 server. Each probe is listed in its own widget that gives details such as the probe availability, whether the probe is using HTTP or HTTPS to communicate with the central server, the name and IP address. The number of managed devices is also displayed, along with the last time the device information was updated, the next discovery time and the discover interval. The discovery rules are displayed below the probe summary information.



To make any changes to an existing probes setting, click on the **Edit** icon in the upper right corner of a probes widget. A pop up window will open that displays all of the available options and rules that have been set for the selected probe. Auto discovery must be set to **On** in order for the discovery rules to be effective. To add a new discovery rule, click on "**+ Add Rule**" which will expand the rule set by one line. Enter the SNMP version that will apply to the rule, the IP coverage (range or subnet), the Read Only and Read Write community values, and optionally an alias to help identify the rule. Click **Add** to save the rule. To finalize the changes to the probe, click the **Save** button.



# User Management

The User / Workspace view shows all of the user accounts and all of the available workspaces. By default, the User / Workspace list will show all the user accounts for all workspaces.

Users on the D-View 7 server can be assigned to a specific workspace, which can be configured to limit the amount of or type of devices that are available to those users.

To create a new workspace click on the "+" sign in the upper left corner of the workspace list column. A popup window will open; enter a unique workspace name, and add a description to describe the workspace. Click **Next** to continue. Select the devices that will be a part of the workspace. If the selected device has any devices it depends on, such as a wireless controller, make sure to add those as well. Click **Next** to continue. For each device, set the device privileges for the workspace. Privileges can be set on both the device and its modules. Click **Submit** to save the workspace to the workspace list.

The newly created workspace will appear in a column list on the left side of the browser. To hide the workspace list from view, click the "<<" sign at the top of the workspace list. Workspaces may also be filtered by entering a part or the whole name of the workspace name into the search box.

The workspace list can be reordered by clicking the left part of the workspace name, and dragging the selected item either up or down in the list.

To rename or delete a workspace, click on the drop down menu item located on the right part of the workspace name.

The **Export** button will download a copy of all the jobs currently displayed.

The screenshot shows the D-View 7 User Management interface. The top navigation bar includes Dashboard, Inventory, Monitor, Maintenance, and System. The main content area displays a table of users and their assigned workspaces. The table has columns for Status, Name, Last Login Time, Last Login IP, Last Login OS, Last Login Browser, and Workspace. The workspace list is visible on the left side of the interface.

Status	Name	Last Login Time	Last Login IP	Last Login OS	Last Login Browser	Workspace
	122	N/A	N/A	N/A	N/A	2
	122	2016-08-15 16:05	172.18.190.49	Windows 10	Chrome	51.0.2704.106
	492328113	2016-05-20 14:25	172.18.190.20	Windows 7	Chrome	50.0.2661.102
	5943608@ea.com	2016-08-12 10:18	172.18.190.254	Windows 10	Chrome	48.0.2564.116
	admin	2016-09-08 10:15	172.18.190.37	Windows 7	Chrome	51.0.2704.106
	Andy.Wiano	N/A	N/A	N/A	N/A	2
	DIP	2016-08-25 13:00	172.18.190.254	Windows 10	Firefox 48.0	1
	tsuju	2016-09-08 16:19	172.18.190.28	Windows 10	Chrome	51.0.2704.106
	Eranny.thaana	2016-09-08 15:44	172.18.190.254	Windows 7	IE 11.0	1
	hahona.ji	2016-09-08 16:27	172.18.190.211	Windows 10	Chrome	51.0.2704.106
	bonavan.vana	2016-03-16 11:20	172.18.190.64	Windows 7	Chrome	44.0.2403.157
	Ironban	N/A	N/A	N/A	N/A	1



To add a new user to the D-View 7 Server, click on the **New User** button.

A pop up window will open. The Account Source can be set to Local or OpenID.

If an Account Source of **Local** is chosen, enter the user's email address, name, password, confirm the password, enter a description (optional) and choose an account type of **Admin** or **User**.

If the account is set to **User**, a Privilege box will appear that will allow the administrator to set the user account privileges. The account privileges are based on workspaces, so it is important to ensure that the workspace has the correct permissions for the devices that the user is going to be assigned to.

If an Account Source of OpenID is chosen, enter the user's email address, name, description (optional) and choose an account type of **Admin** or **User**.

Click **Submit** to save the newly created user account.

An activation email will be sent to the email address specified in the email address field.

There is no limit to the number of user accounts or workspaces on the D-View 7 server.

**Create New User**

Before create a new user, please make sure the SMTP server ([System > About](#)) has been set correctly, since an activation email need to be sent to this user's email address.

Account Source:  Local  OpenID

Email Address\*:

Name\*:

Password\*:

Repeat Password\*:

Description:

Account Type:  Admin  User

Privilege\*

Enable	Name	Device Privilege	Module Privilege
<input type="checkbox"/>	test	Read Only	Read Only
<input type="checkbox"/>	台灣	Read Only	Read Only
<input type="checkbox"/>	HK	Read Only	Read Only
<input type="checkbox"/>	555555555	Read Only	Read Only

# Sensor Settings

The **Sensor Settings** view shows a list of available sensors based on the type of data collected by the sensor. The sensors configured here will show up as a widget on the dashboard of a device that the sensor is assigned to. Certain sensors will not be applicable to specific types of devices (e.g. Wireless sensors for switches or other devices that have no wireless capability). To create a new sensor for a single device or multiple devices, select the sensor type based on the desired data to be collected, and click on the **New Sensor** button.

A pop up window will open. Enter a unique name that will be used to identify the sensor in the sensor list. Using the drop down menu, select a time interval for how often the sensor will collect data from the assigned device(s). Optionally, enter a description to help identify the sensor. Click **Next** to continue.

Sensors can be configured to send alerts based on certain thresholds. An administrator can also configure notifications to be sent when either an informative event, warning event, or critical event is detected on a device. Depending on the type of sensor, notifications can also be sent for certain types of devices (e.g. Wireless AP sensors can apply to a standalone AP, a managed AP, or a rogue AP). To configure a notification, first enable the event level desired. The hierarchy of event levels always goes from **Info**, to **Warning**, to **Critical**. To enable a **Critical** level event, **Info** and **Warning** must also be enabled. Next set the threshold level. For some sensors this will be a numerical value, for other sensors such as **CPU Utilization** it will be a percentage. Set the number of times the event must be detected. If an event is detected multiple times, the alert can also be escalated to a higher priority by enabling **Escalation**. Set escalation to **On** or **Off**, and set the number of times the event must be repeated before being escalated. Escalation can only be enabled if the higher priority alert level is also enabled. To reset all entered values, click the **Reset** button. Click **Next** to continue.

Select the device(s) that will be assigned to the new sensor. Devices can be filtered by using the advance search feature. Click **Finish** to save the new sensor. To view the new sensor, go to the Inventory View and find a device that the newly created sensor was assigned to. The sensor will appear as a new widget within the devices detailed dashboard view.

The screenshot displays the D-Link D-View 7 interface for configuring a new sensor. The main window is titled "Create New Wireless AP Type Sensor" and is divided into three numbered steps:

- 1. Set Sensor Information:** This step includes a "Name\*" text field, an "Interval" dropdown menu set to "1 Min", and a "Description" text area. A "Next" button is located at the bottom right.
- 2. Set Alert Rule:** This step is titled "Setting Event Trigger Rules" and features a "Reset" button. It contains four columns for event levels: "Settings", "Info Event", "Warning Event", and "Critical Event". Each column has a "Trigger" dropdown and radio buttons for "ON" and "OFF". Below these are "Alert when trigger repeat for" and "Escalation" (with "On" and "Off" radio buttons) and "Escalation when status repeat for" fields, each with a "Times" input.
- 3. Apply to Device(s):** This step shows a table of available devices for selection. The table has columns for "Status", "System Name", "MAC", "IP", "Device Type", "Model Name", and "Label".

Status	System Name	MAC	IP	Device Type	Model Name	Label
<input type="checkbox"/>	chmto-cdu>chmto	00:17:9A:95:20:14	172.18.191.05	Unified Switch	DWS-4026	N/A
<input type="checkbox"/>	123	00:17:9A:95:1F:00	172.18.191.05	Unified Switch	DWS-3026	N/A
<input type="checkbox"/>	DWC-1000	88:A3:86:78:AB:F0	152.168.0.18	Wireless Controller	DWC-1000	N/A
<input type="checkbox"/>	88:A3:86:78:AB:F0	88:A3:86:78:AB:F0	152.168.0.18	Wireless Controller	DWC-1000	<input checked="" type="checkbox"/>
<input type="checkbox"/>	dws3160-24TC	14:0E:4D:66:7D:C9	172.18.191.09	Unified Switch	DWS-3160-24TC	N/A
<input type="checkbox"/>	DWS-3160-24TC	14:0E:4D:66:7D:C9	152.168.0.32	Unified Switch	DWS-3160-24TC	N/A
<input type="checkbox"/>	DWS-3160-24TC	14:0E:4D:66:7D:C9	152.168.0.33	Unified Switch	DWS-3160-24TC	N/A
<input type="checkbox"/>	DWS-4026	00:00:00:00:00:02	172.18.191.111	Unified Switch	DWS-4026	<input checked="" type="checkbox"/>
<input type="checkbox"/>	DWS-4026-COMPLEXNAME	00:17:9A:95:55:0C	152.168.0.33	Unified Switch	DWS-4026	N/A
<input type="checkbox"/>	DWS-4026-COMPLEXNAME	00:17:9A:95:55:0C	152.168.0.33	Unified Switch	DWS-4026	N/A

# Notification Center

The **Notification Center** shows the notification rules that have been configured for devices in D-View 7. The name of the notification rule is entered, and then the sensor type, device and alert conditions are selected. These are the conditions that will trigger the alert. After this, the notification method is chosen. This can be an email notification or script execution.

Click the **Add Notification Rule** button to add a notification rule. Enter the name of the rule and a description and press **Next** to continue.

Choose the sensor type. This can be **CPU Utilization, Memory Utilization, Ping, Syslog, Trap, Wired Error Packet, Wired Traffic, Wireless AP Type, Wireless Client, Wireless Error Packet, Wireless Traffic (bit), or Wireless Traffic (packet)**. Depending on the sensor type chosen, a sensor (or device probe) can also be chosen.

Select the devices to apply to notification rule to. This can be done in the choose device section of the window, and different devices will be displayed, depending on the sensor type chosen. Use the search feature to search for devices in the table, and use the **Notify when the alarm happen** tick boxes to choose the alert level to provide notifications on. Ensure that at least 1 device is selected, and click **Next** to continue.

Name	Status	Source Device	Sensor	Trigger Event	Method	Latest Notify Time	Latest Result	Action
00	Active	0	HTTP Sensor - 010101	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Send Email	N/A	-	<input type="checkbox"/> <input type="checkbox"/>
dd4434	Active	0	SNMP Sensor - 238CPU	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Send Email	N/A	-	<input type="checkbox"/> <input type="checkbox"/>
fd4fd4	Active	0	SNMP Sensor - 123	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Send Email	N/A	-	<input type="checkbox"/> <input type="checkbox"/>
fd4fd4	Active	0	HTTP Sensor - ddd4d	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Execute Script	N/A	-	<input type="checkbox"/> <input type="checkbox"/>
12	Active	0	CPU Utilization	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Execute Script	N/A	-	<input type="checkbox"/> <input type="checkbox"/>
123	Active	0	Wired Traffic	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Send Email	2016-05-24 10:57	-	<input type="checkbox"/> <input type="checkbox"/>
test	Active	1	Trap	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Send Email	2016-07-27 17:44	-	<input type="checkbox"/> <input type="checkbox"/>
ddd	Active	1	CPU Utilization	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Send Email	2016-09-07 14:47	-	<input type="checkbox"/> <input type="checkbox"/>
WLY TEST	Active	1	CPU Utilization	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Execute Script	2016-09-07 14:47	-	<input type="checkbox"/> <input type="checkbox"/>
fd4d	Active	10	Memory Utilization	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Execute Script	2016-09-08 12:01	-	<input type="checkbox"/> <input type="checkbox"/>
edd	Active	6	CPU Utilization	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Send Email	2016-09-08 14:24	-	<input type="checkbox"/> <input type="checkbox"/>

**1. Set Profile Information**

Name\*

Description

**Next**

**2. Set Conditions**

Sensor Type: **CPU Utilization**

Choose Device:

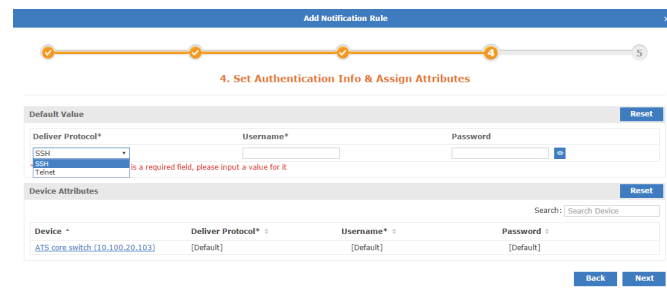
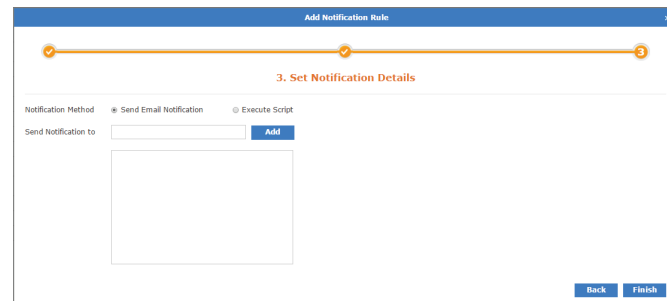
Status	System Name	IP	Model Name	Label
<input type="checkbox"/>	N/A	10.90.90.251	DGS-3120-24TC	
<input type="checkbox"/>	ATS_core_001	10.100.20.103	DGS-3120-24TC	
<input type="checkbox"/>	RTHC_core_001	10.90.90.251	DGS-3120-24TC	
<input type="checkbox"/>	CACTM_Core-Switch_251	10.90.90.251	DGS-3120-24TC	
<input type="checkbox"/>	CACTM-1510-248	10.90.90.248	DGS-1510-28P	
<input type="checkbox"/>	CACTM-1510-249	10.90.90.249	DGS-1510-28P	
<input type="checkbox"/>	CACTM-1510-250	10.90.90.250	DGS-1510-28P	
<input type="checkbox"/>	CHSC_Core-Switch_251	10.90.90.251	DGS-3120-24TC	
<input type="checkbox"/>	CI_3120-24TC_251	10.90.90.251	DGS-3120-24TC	
<input type="checkbox"/>	CHVSS_3120-24TC	10.90.90.251	DGS-3120-24TC	

Set the notification method. If the email notification is chosen, enter the email address to receive notifications and press **Add** to add the email address to the notification rule. If the execute script option is chosen, a command line window is displayed to enter the command that needs to be executed on the device being matched by the notification rule. Choose to apply the script to itself or other devices. If the email notification was chosen, press **Finish**, or if the execute script option was chosen, press **Next** to continue.

If the execute script option was chosen, use the choose device section of the window to choose the device to apply the command to. Ensure that at least 1 device is selected, and click **Next** to continue.

Enter the connection method (SSH or Telnet), the username and password required to connect to the device. Ensure that one set of credentials has been entered, and click **Next** to continue.

Optionally, enter an email address to receive the output from the script and press **Add** to add the email address to the notification rule. Click **Finish** to create the notification rule.



# System Logs

The **System Logs** view shows a list of all events that have taken place on the D-View 7 server.

Events may be filtered by entering a keyword into the search box. Available search options will automatically appear under the search box, select the field to filter the results by. The advance search will allow for multiple filtering criteria.

To export a list of all of the events, click on **Export** to download a CSV file that can be imported into a spreadsheet application.

Time	Category	User	Action	Target	Message
2014-05-09 11:20	Device	matt_lu@dlink.com.tw	Edit	dsw4026-191.111 (172.18.191.111)	
2014-05-09 11:20	Task	matt_lu@dlink.com.tw	Create		QuickTask_CustomDiscover_2014/5/9 11:20:15
2014-05-09 11:20	Device	matt_lu@dlink.com.tw	Edit	dsw4026-191.111 (172.18.191.111)	
2014-05-09 11:20	Task	matt_lu@dlink.com.tw	Create		QuickTask_SystemConfig_2014/5/9 11:20:04
2014-05-09 10:54	User	matt_lu@dlink.com.tw	Login		N/A
2014-05-09 10:54	User	junnan_sa@cn.dlink.com	Login		N/A
2014-05-09 10:43	User	junnan_sa@cn.dlink.com	Logout		N/A
2014-05-09 10:38	User	terral_yeh@dlink.com.tw	Login		N/A
2014-05-09 10:25	User	ivan	Login		N/A
2014-05-09 10:24	User	ivan	Logout		N/A
2014-05-09 10:08	User	terral_yeh@dlink.com.tw	Logout		N/A
2014-05-09 09:25	User	ivip@_l@dlink.com.tw	Login		N/A
2014-05-09 09:08	User	shameu_ju@dlink.com	Login		N/A
2014-05-08 18:32	User	shameu_ju@dlink.com	Logout		N/A
2014-05-08 17:47	Device	Local Probe	Discover	N/A (172.18.190.49)	
2014-05-08 17:46	Device	Local Probe	Discover	D-Link (172.18.190.233)	
2014-05-08 16:46	Device	admin	Edit	D-Link DAP-2500 (172.18.191.153)	
2014-05-08 16:46	Device	admin	Edit	D-Link DAP-2500 (172.18.191.153)	
2014-05-08 16:43	Device	Local Probe	Discover	N/A (172.18.190.302)	
2014-05-08 16:43	Device	Local Probe	Manage	N/A (172.18.190.206)	

# About

The **About** view shows the D-View 7 administrator details relevant to the D-View 7 server such as IP, MAC address, system uptime, and software version. By default, the **About** view shows the **Support Device Model List** tab, which list all of the devices that the current version of D-View 7 that is installed is compatible with. To show customized identified devices, click on the **Customized Identified Device Model List** tab.

Devices may be filtered by entering a keyword into the search box. Available search options will automatically appear under the search box, select the field to filter the results by. The advance search will allow for multiple filtering criteria.

Devices in the **Customized Identified Device Model List** tab can be edited by clicking on the **Edit** icon. This will pop up a window that will allow the administrator to input custom values for the **Device Type**, **Model Name**, **Hardware Version**, and **Vendor**.

The **About** view also allows the administrator to set the email settings for D-View 7 server. To edit the email settings used, click on the **Edit** icon next to **SMTP Server**. This will pop up a window that will allow the administrator to set the proper hostname and credentials that D-View 7 will use to send emails.

The screenshot shows the 'About' page in the D-View 7 interface. It includes a navigation bar with 'Dashboard', 'Inventory', 'Monitor', 'Maintenance', and 'System'. The 'About' section displays the following information:

Core Server IP	172.18.192.22	Software Version	1.0.0.6	Up View is up to date
Core Server MAC	00:24:81:08:06:8D	Last Update Date	N/A	
System Uptime	0 Day, 19:32:00	SMTP Server	smtp.135.com	

Below this is a table titled 'Supported Device Model List' with columns for Model Name, Device Type, System OID, and HW Version.

Model Name	Device Type	System OID	HW Version
DAP-Series			
DAP-2310	AP	1.3.6.1.4.1.171.10.37.42	
DAP-2360	AP	1.3.6.1.4.1.171.10.37.40	
DAP-2553	AP	1.3.6.1.4.1.171.10.37.35	
DAP-2590	AP	1.3.6.1.4.1.171.10.37.36	
DAP-2690	AP	1.3.6.1.4.1.171.10.37.29	
DAP-2690B	AP	1.3.6.1.4.1.171.10.37.45	
DAP-3520	AP	1.3.6.1.4.1.171.10.37.37	
DAP-3690	AP	1.3.6.1.4.1.171.10.37.41	
DES-Series			
DES-1210-00P	Switch	1.3.6.1.4.1.171.10.75.13	
DES-1210-08P	Switch	1.3.6.1.4.1.171.10.75.13.2	
DES-1210-28	Switch	1.3.6.1.4.1.171.10.75.9.9	
DES-1210-28	Switch	1.3.6.1.4.1.171.10.75.5.2	
DES-1210-28PME	Switch	1.3.6.1.4.1.171.10.75.19	
DES-1210-28PME	Switch	1.3.6.1.4.1.171.10.75.15.2	
DES-1210-28P	Switch	1.3.6.1.4.1.171.10.75.6	
DES-1210-28P	Switch	1.3.6.1.4.1.171.10.75.6.2	

The 'Identify' dialog box is shown with the following fields:

- System OID\*: 1.3.6.1.4.1.171.10.25.2.1
- Device Type: Smart GE Switch
- Model Name\*: 188
- HW Version: 00
- Vendor\*: dlink

A 'Save' button is located at the bottom right of the dialog.

# Appendix A

## MongoDB Database Upgrade

### Introduction

This tool is used to upgrade MongoDB from version 2.6 to version 3.2. It can be downloaded from the <http://dview.dlink.com/> website.

### System Requirements

Please see **System Requirements** on page 9 for more information.

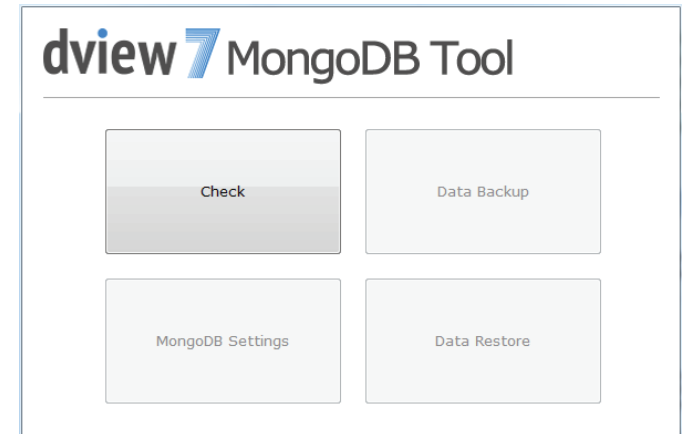
### Procedure

1. Launch the D-View 7 MongoDB upgrade tool application.
2. Read the utility usage announcement on the first page and press **Agree** if you understand and wish to proceed with the upgrade. If not, close the window to exit the upgrade tool.



3. The main page displays the **Check**, **Data Backup**, **MongoDB Settings**, and **Data Restore** options. When running the tool for the first time, the **Check** button is the only button available, and the remaining buttons become available after the check tool has been run.

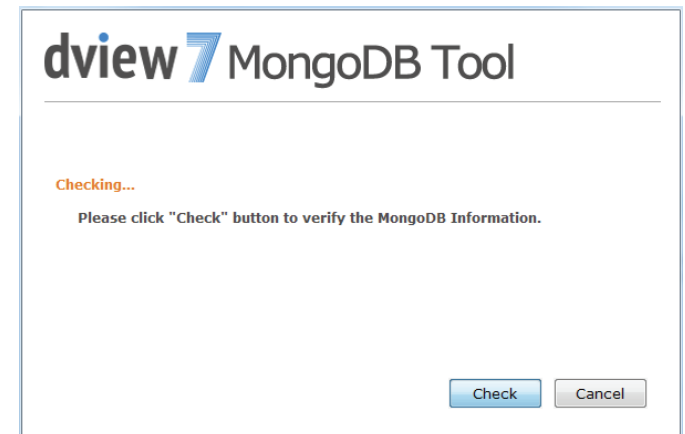
Click the **Check** button to check the MongoDB environment on the PC on which you are running the tool.



4. After clicking the **Check** button, a confirmation screen will be displayed. Click **Check** to begin the check, or press **Cancel** to return to the main screen.

A status message will be displayed, depending on the outcome of the check. Look at **MongoDB Database Upgrade Check Results** on page 83 for more information. Correct any problems and re-run the upgrade tool, until all checks pass.

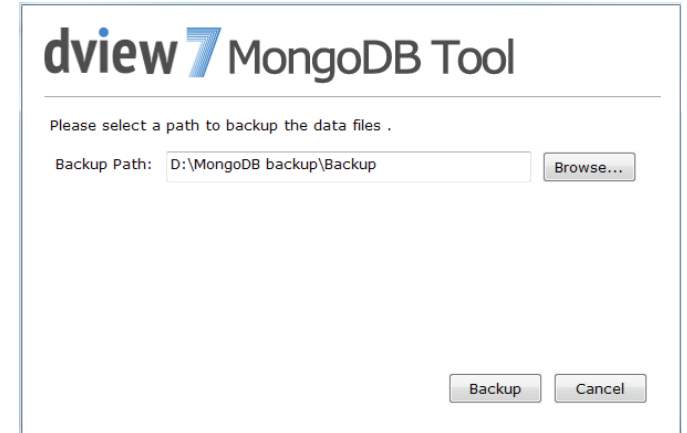
5. Once the check has been completed successfully, the **Data Backup** button will be displayed. Click this to perform a backup of the database before performing the upgrade.





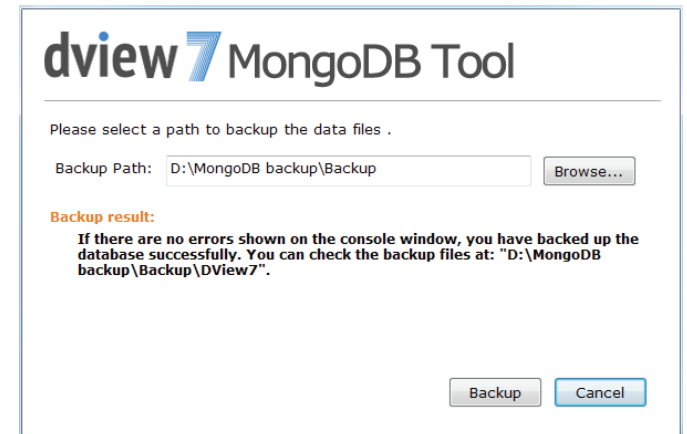
6. After clicking the **Data Backup** button, a window is displayed to choose the path of the backup. Enter the path manually or click **Browse...** to choose a path on the PC.

By default, a "Backup" folder will be created in the same folder as the upgrade tool. Press **Backup** to start the backup, or press **Cancel** to return to the main screen.



7. A dialog box will be displayed with the output of the backup, and the backup will be put in the DView7 sub-folder of the folder selected above.

When complete, and if the backup is successful, press **Cancel** to return to the main screen.



8. On the main page, click the **MongoDB Settings** button to either upgrade the MongoDB, register a Windows service, or install MongoDB. A different option will be available, depending on the status of MongoDB on the PC on which you are running the tool.

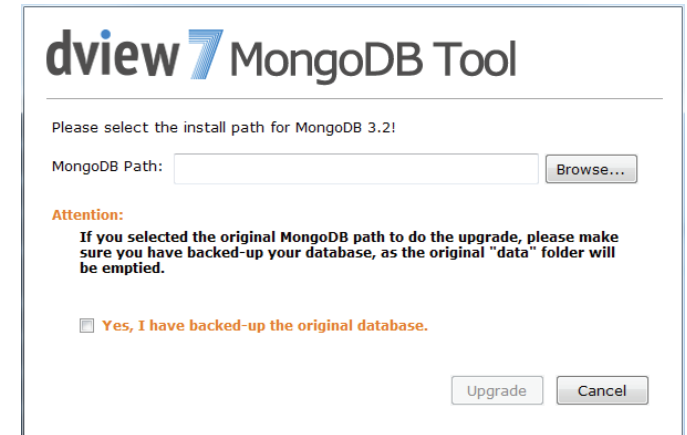
- i. If the **Upgrade** button is displayed:

Enter the path to the MongoDB installation or press **Browse...** to choose a path on the PC.

Note: make sure that you have backed-up your database using the backup option of this tool if you plan to upgrade the database of your existing installation. The original data folder will be emptied.

Tick the "Yes, I have backed-up the original database" box and press **Upgrade** to start the upgrade, or press **Cancel** to return to the main screen.

The status of the upgrade will be displayed below the installation path. When the upgrade is complete, press **Cancel** to return to the main screen.



The screenshot shows the 'dview 7 MongoDB Tool' interface for upgrading. It features a title bar with the logo and name. Below the title, it says 'Please select the install path for MongoDB 3.2!'. There is a text input field labeled 'MongoDB Path:' followed by a 'Browse...' button. An 'Attention:' section in orange text reads: 'If you selected the original MongoDB path to do the upgrade, please make sure you have backed-up your database, as the original "data" folder will be emptied.' Below this is a checkbox labeled 'Yes, I have backed-up the original database.' At the bottom right, there are 'Upgrade' and 'Cancel' buttons.

- ii. If the **Register** button is displayed:

Enter the path to the MongoDB "bin" folder or press **Browse...** to choose a path on the PC.

Press **Register** to register the Windows service, or press **Cancel** to return to the main screen.

When the service registration is complete, press **Cancel** to return to the main screen.



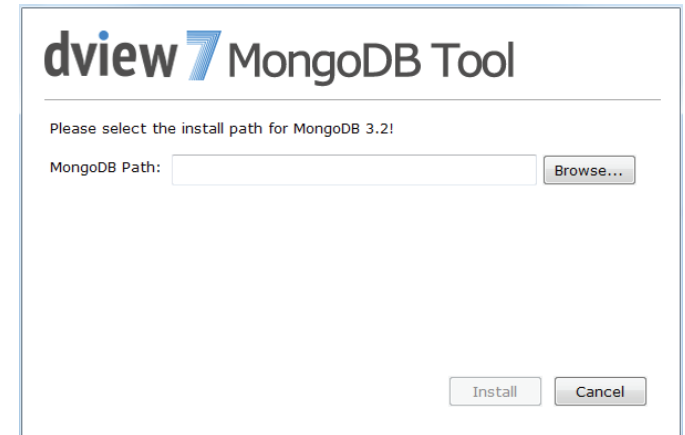
The screenshot shows the 'dview 7 MongoDB Tool' interface for registering a service. It features a title bar with the logo and name. Below the title, it says 'Please select the installed MongoDB 3.2 "bin" path.'. There is a text input field labeled 'MongoDB Path:' followed by a 'Browse...' button. At the bottom right, there are 'Register' and 'Cancel' buttons.

iii. If the **Install** button is displayed:

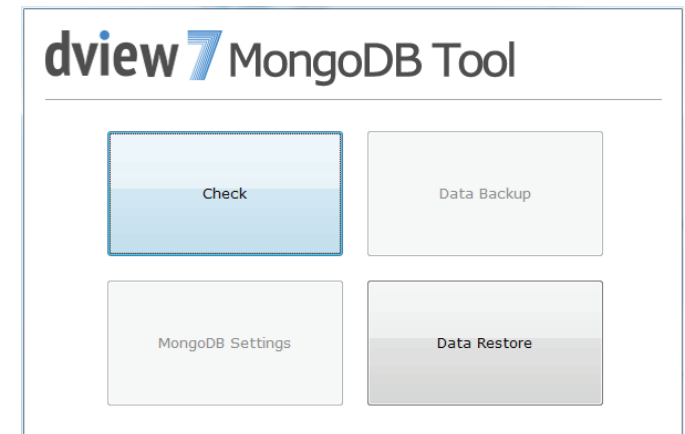
Enter the path for the MongoDB installation or press **Browse...** to choose a path on the PC.

Press **Install** to start the installation, or press **Cancel** to return to the main screen.

When the installation is complete, press **Cancel** to return to the main screen.

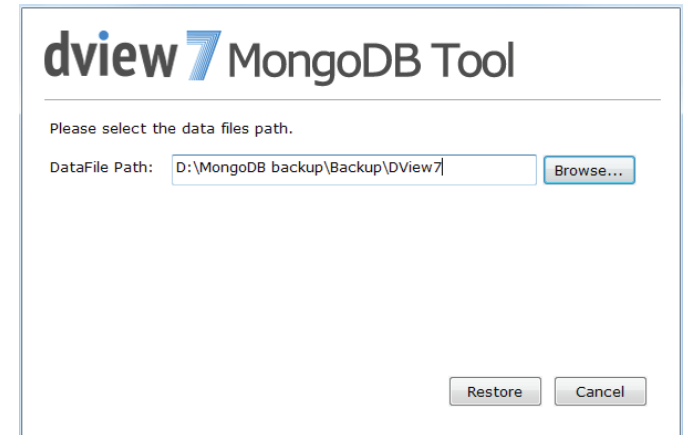


9. If MongoDB is installed and registered as a Windows service, the **Data Restore** button will be displayed. Click this to restore the MongoDB 2.6 database backup taken at the beginning of the process to MongoDB 3.2.



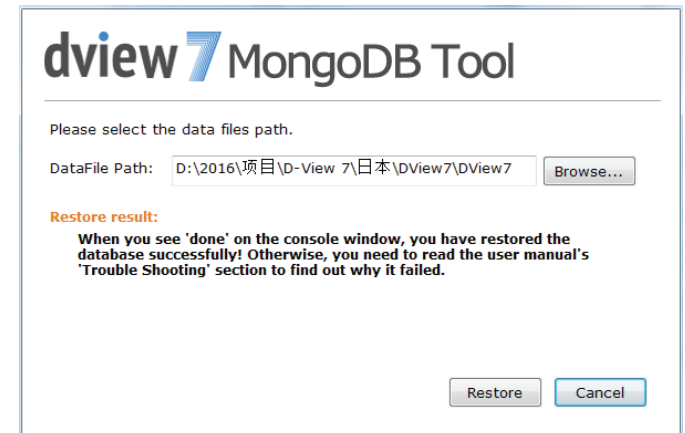
10. After clicking the **Data Backup** button, a window is displayed to choose the path of the backup files. Enter the path manually or click **Browse...** to choose a path on the PC.

Press **Restore** to start the restoration, or press **Cancel** to return to the main screen.



11. A dialog box will be displayed with the output of the backup. The key word "done" will be displayed at the end of the output if the restoration was successful. If there was a problem with the process, read the troubleshooting section below for more information.

When complete, press **Cancel** to return to the main screen.



## Troubleshooting

The following error messages may be displayed when using the MongoDB upgrade tool **Data Backup** or **Data Restore** options.

Message	Solution
Failed: error connecting to db server: no reachable servers	<ol style="list-style-type: none"><li>1. Try to start the MongoDB service in the Windows service manager.</li><li>2. If the service cannot be started. Please check the "Mongo.config" at the MongoDB install "bin" path, e.g.: D:\MongoDB\bin.  The contents of the "Mongo.config" should like follows:  <pre>directoryperdb = true logappend = true storageEngine = wiredTiger wiredTigerDirectoryForIndexes = true wiredTigerCollectionBlockCompressor = zlib serviceName = MongoDB serviceDisplayName = MongoDB logpath = D:\MongoDB\log.txt dbpath = D:\MongoDB\data</pre></li><li>3. When MongoDB service started, do the backup or restore again.</li></ol>

Message	Solution
<p>Failed: DView7.Bas_Template: error reading database: not authorized on DView7 to execute command { listCollections: 1, cursor: { batchSize: 0 } }</p>	<ol style="list-style-type: none"><li>1. Open the "Mongo.config" in the MongoDB install "bin" path, e.g.: D:\MongoDB\bin.</li><li>2. Search for the keyword "auth" in the file. If it exists with an entry of "auth = true", remove it. If it does not exist:  Run "cmd" as administrator Enter "sc stop MongoDB" and press Enter Enter "sc delete MongoDB" and press Enter Click the "Check" button to do the environment check If the "MongoDB Settings" button was enabled, click it to register the Windows service.</li><li>3. Restart the MongoDB service in the Windows service manager.</li><li>4. When MongoDB service started, do the backup or restore again.</li></ol>

## MongoDB Database Upgrade Check Results

MongoDB Version	MongoDB Service Status	Result	Button Status
2.6.5	Be registered as windows service named as "MongoDB"	You have already installed both MongoDB 2.6 and MongoDB 3.2 and MongoDB 2.6 is registered as a Windows service. You can use the "Database Backup" feature to back up the D-View 7 database and the "MongoDB Settings" feature to install, upgrade or register MongoDB 3.2.	Enabled: Data Backup MongoDB Settings  Disabled: Data Restore
2.6.5	Never be registered as windows service; No service named "MongoDB"	You have already installed MongoDB 2.6, but it has not been registered as a Windows service. You can use the "MongoDB Settings" feature to upgrade it to MongoDB 3.2, register it as a Windows service, and then use the "Database Restore" feature to restore the backed up files to MongoDB 3.2.	Enabled: MongoDB Settings  Disabled: Data Restore Data Backup
3.2.6	Be registered as windows service named as "MongoDB"	You have already installed MongoDB 3.2 and registered it as a Windows service. You can use the "Database Restore" feature to restore the backed up files to MongoDB 3.2.	Enabled: Data Restore  Disabled: Data Backup MongoDB Settings
3.2.6	Never be registered as windows; No service named "MongoDB"	You have already installed MongoDB 3.2, but it has not been registered as a Windows service. You can use the "MongoDB Settings" feature to register it as a Windows service and use the "Database Restore" feature to restore the backed up files to MongoDB 3.2.	Enabled: MongoDB Settings  Disabled: Data Backup Data Restore

MongoDB Version	MongoDB Service Status	Result	Button Status
2.6.5 3.2.6	3.2.6 was registered as windows service named as "MongoDB"	You have already installed both MongoDB 2.6 and MongoDB 3.2 and MongoDB 3.2 is registered as a Windows service. You can use the "Database Restore" feature to restore the backed up files to MongoDB 3.2.	Enabled: Data Restore  Disabled: Data Backup MongoDB Settings
2.6.5 3.2.6	2.6.5 was registered as windows service named as "MongoDB"	You have already installed both MongoDB 2.6 and MongoDB 3.2 and MongoDB 2.6 is registered as a Windows service. You can use the "Database Backup" feature to back up the D-View 7 database and the "MongoDB Settings" feature to install, upgrade or register MongoDB 3.2.	Enabled: Data Backup MongoDB Settings  Disabled: Data Restore
2.6.5 3.2.6	One of them was registered as windows service named as "MongoDB", but the tool cannot analysis which one supply the service.	You have already installed both MongoDB 2.6 and MongoDB 3.2 and one of them is registered as a Windows service. Please uninstall the unregistered one first.	Enabled: Null  Disabled: Data Restore Data Backup MongoDB Settings
2.6.5 3.2.6	Both them were not be registered as windows; No service named "MongoDB"	You have already installed MongoDB 2.6 and MongoDB 3.2, but they have not been registered as a Windows service. You can use the "MongoDB Settings" feature to register MongoDB 3.2 as a Windows service and use the "Database Restore" feature to restore the backed up files to MongoDB 3.2.	Enabled: MongoDB Settings  Disabled: Data Restore Data Backup



MongoDB Version	MongoDB Service Status	Result	Button Status
No 2.6.5 No 3.2.6	No "MongoDB" service	There is no MongoDB on this PC. You can use the "MongoDB Settings" feature to install MongoDB 3.2, register it as a Windows service, and then use the "Database Restore" feature to restore the backed up files to MongoDB 3.2.	Enabled: MongoDB Settings  Disabled: Data Restore Data Backup
No 2.6.5 No 3.2.6	There is a windows services named "MongoDB"	An unknown version MongoDB has been registered as a Windows service. This tool can only be used with the version of MongoDB installed by D-View 7 or this tool.	Enabled: Null  Disabled: Data Restore Data Backup MongoDB Settings

# Appendix B

## Adding a Remote Probe

### Introduction

This tool is used to install the probe software on a remote host. This is then added to D-View 7, to monitor devices that are not monitored directly by the probe software on the central D-View 7 host.

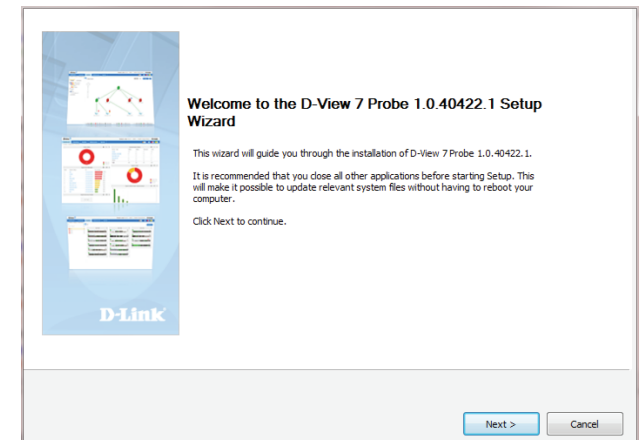
The tool can be downloaded from the <http://dview.dlink.com/> website.

### System Requirements

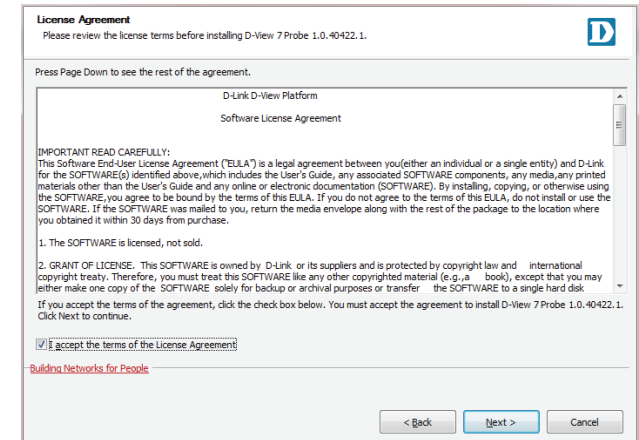
Please see **System Requirements** on page 9 for more information.

### Installation Procedure

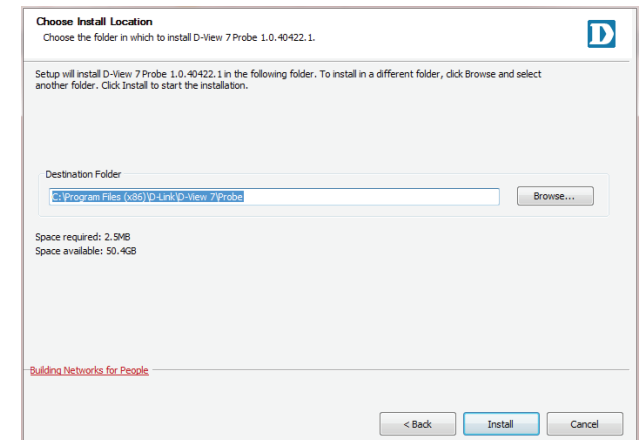
1. Launch the D-View 7 probe installation application.
2. Press **Next** on the welcome screen to start the installation process.



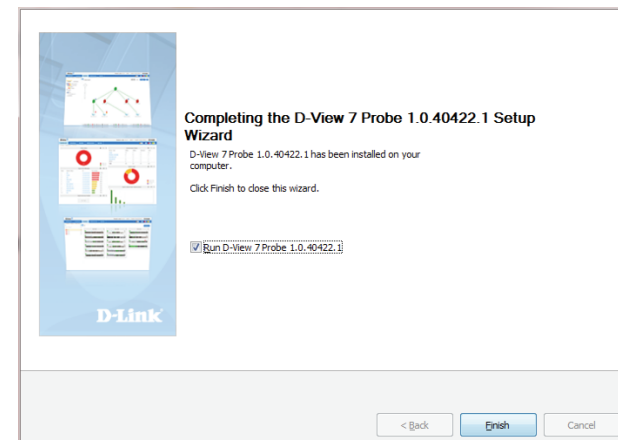
3. Read the license agreement and tick the **I accept the terms of the License Agreement** tick box if you accept the licence agreement and wish to proceed with the installation. Press **Next** to continue or press **Cancel** to exit the tool.



4. Enter the installation path for the installation or press **Browse** to choose a folder on the local file system. The space required and the space available are displayed below the installation folder. Press **Install** to install the software or press **Cancel** to exit the tool.



- When the installation has completed, a completion screen is displayed. Click the **Run D-View 7 Probe** tick box to run the software after exiting the installation tool, and press **Finish** to exit the tool.



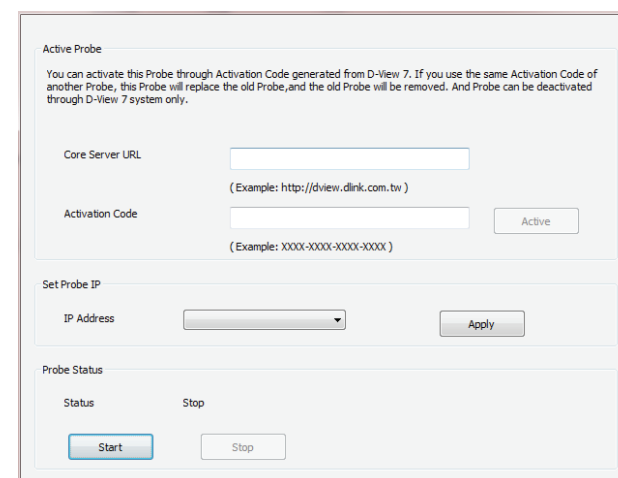
## Probe Activation

Once the probe has been installed, it needs to be licensed and added to the central D-View 7 server. When the probe software is run for the first time, a wizard is displayed to configure the licensing and central server settings.

- In the Active Probe section of the window, enter the URL of the core server in the **Core Server URL** field. This can be a Fully Qualified Domain Name (FQDN) such as: `http://dview.dlink.com.tw`, or an IP address, such as: `http://192.168.0.1`. Enter the activation code in the **Activation Code** field. This is taken from the D-View 7 license page on the core server and is in the format `XXXX-XXXX-XXXX-XXXX`. See **License** on page 65 for more information.



If you use the same activation code of another probe, the new probe will replace the old probe, and the old probe will be removed from D-View 7. Probes can only be deactivated through the central D-View 7 interface.



2. In the Set Probe IP section of the window, select the local probe **IP Address** to be used with the probe software.
3. In the Probe Status section of the window, the local probe status is displayed. Press the **Start** button to start the probe software, and press **Stop** to stop the probe software.

### **Probe Discovery**

Access the Discovery page on the central server to set the probe discovery rules. See **Discovery & Probe Setting** on page 67 for more information.

# Appendix C

## Accessing D-View 7 using HTTPS

### Introduction

This is used to configure Microsoft Internet Information Services (IIS) to be accessible using HTTPS. This allows D-View 7 to be accessed either from the Internet or a local LAN using a secure connection.

### System Requirements

In this example, IIS 7 is used, but the steps should be similar for any supported Windows Server operating system. Please see **System Requirements** on page 9 for more information.

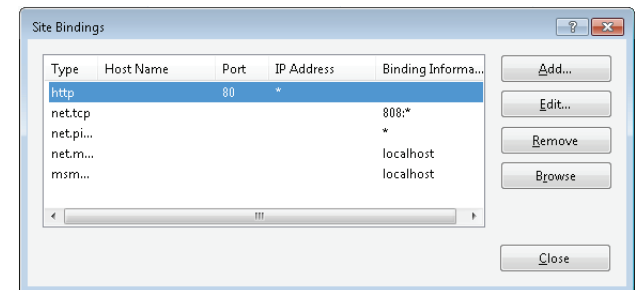
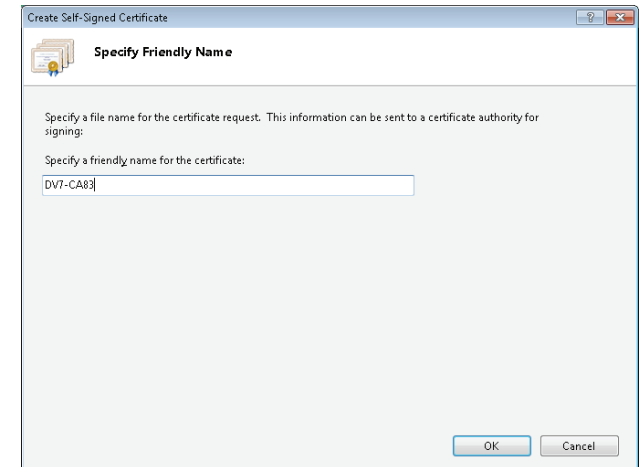
In addition to the software requirements, a signed certificate is required. This can either be a self-signed certificate or a certificate signed by a certificate authority. For this example, a self-signed certificate is used, but the process should be similar for a certificate signed by a certificate authority.

The Microsoft URL Rewrite Module 2.0 for IIS 7(x64) software package is also required for this example. This can be downloaded from the Microsoft Download Center.

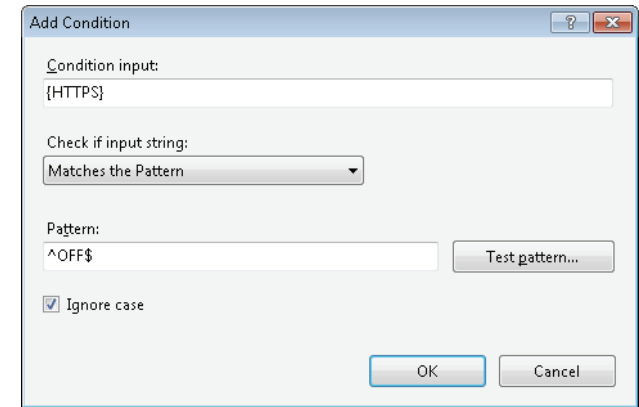
### Installation Procedure

1. Download and install the Microsoft URL Rewrite Module 2.0 for IIS 7(x64) package. Once this is complete, restart IIS by using the IIS Manager or by using the CLI. With the IIS Manager open and the server name selected in the Connections panel, you should see the URL Rewrite option displayed in the main window.
2. With the server name selected in the Connections panel, open the Server Certificates tool to launch the Server Certificates interface. In the Actions panel, select **Create Self-Signed Certificate** to launch the Create Self-Signed Certificate tool.

- In the Create Self-Signed Certificate tool, specify a name for the certificate. Press **OK** to continue or **Cancel** to exit. This should now show up in the Server Certificates interface.
- In the Connections panel, right-click the Default Web Site entry and select **Edit Bindings**. In the Site Bindings window, click the **Add** button and choose https as the **Type**. Choose the certificate created earlier in the **SSL certificate** field and press **OK** to continue or **Cancel** to exit. Press **Close** to exit the Site Bindings tool.
- With the server name selected in the Connections panel, select the URL Rewrite tool and click **Add Rule(s)...** in the Actions panel which is displayed. In the Add Rule(s) window, under Inbound rules, select Blank rule and press **OK** to continue or **Cancel** to exit.
- In the Edit Inbound Rule window, under **Name**, give the rule a name such as "HTTP to HTTPS redirect". In the Match URL section, under **Pattern**, enter a pattern such as "(.\*)"



7. In the Conditions section of the Edit Inbound Rule window, click **Add...** and enter a **Condition input** of "{HTTPS}". Under **Pattern**, enter a pattern of "^OFF\$" and press **OK** to continue or **Cancel** to exit.
8. In the Action section of the Edit Inbound Rule window, under **Action type**, choose an **Action type** of Redirect. Under Action Properties, enter a **Redirect URL** of "https://{HTTP\_HOST}/{R:1}" and a **Redirect type** of Found (302). In the Actions panel, press **Apply** to save the settings or **Cancel** to lose the settings.
9. It should now be possible to access D-View 7 using HTTPS. Try accessing D-View 7 using a URL such as https://<hostname or IP>/DView7/.





# Appendix D

## Uninstalling MongoDB Manually

### Introduction

Uninstalling MongoDB manually may be required if MongoDB is not removed as part of the uninstallation process, or if D-View 7 is installed in a high availability environment and MongoDB is installed on a different server to the D-View 7 server.

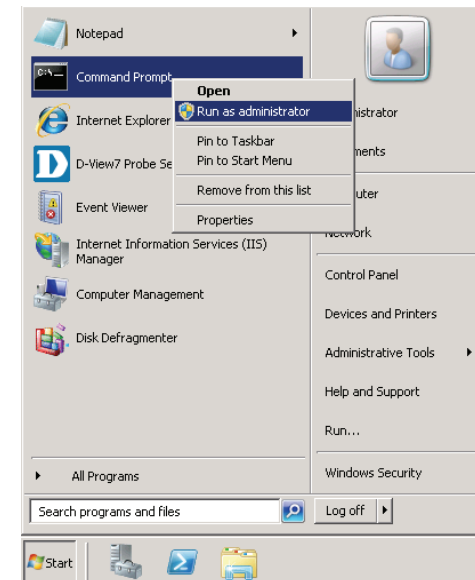
See **Uninstallation** on page 23 for more information on the uninstallation process.

### System Requirements

Please see **System Requirements** on page 9 for more information.

### Uninstallation Procedure

1. On the server that MongoDB is installed on, go to: **Start > All Programs > Accessories**, and right-click **Command Prompt** and choose **Run as administrator**.



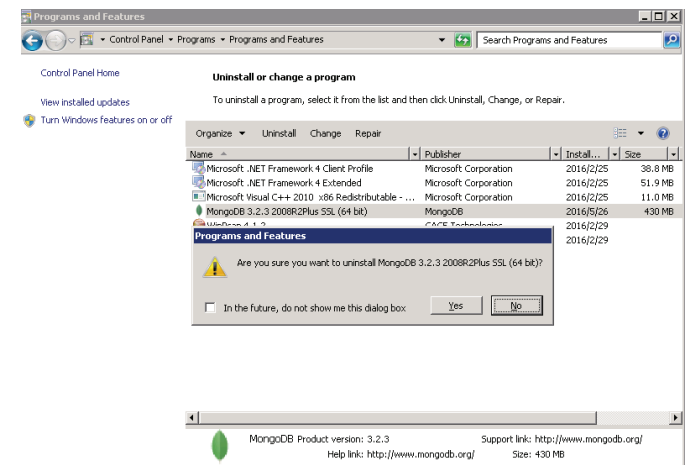
2. Enter "sc stop MongoDB" (without the quotes) and press **Enter**.

```
C:\Users\Coldlin>sc stop MongoDB
SERVICE_NAME: MongoDB
        TYPE               : 10  WIN32_OWN_PROCESS
        STATE                : 3   STOP_PENDING
                       (NOT_STOPPABLE, NOT_PAUSABLE, IGNORES_SHUTDOWN)
        WIN32_EXIT_CODE      : 0   (0x0)
        SERVICE_EXIT_CODE  : 0   (0x0)
        CHECKPOINT         : 0x2
        WAIT_HINT           : 0x7530
```

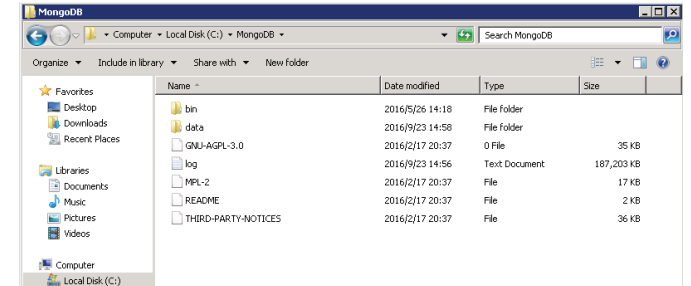
3. Enter "sc delete MongoDB" and press **Enter**.

```
C:\Users\Administrator>sc delete MongoDB
[SC] DeleteService SUCCESS
```

4. Go to: **Start > Control Panel > Programs and Features**, choose the MongoDB installation package and press **Uninstall**. Agree to the dialog box that is presented, asking if you want to uninstall MongoDB.



5. If you wish to uninstall the logs and data, go to the MongoDB installation folder and delete the **log** text file and **data** folder.



# Appendix E

## Migrating and Deactivating D-View 7

### Introduction

Migrating and deactivating D-View 7 may be required if D-View 7 needs to be moved to another server.



If remote probes are in use, it may be necessary to re-install D-View 7 on a host with the same IP address, in order to avoid re-installing the probe software on each of the remote probes.

The instructions refer to the old server (the D-View 7 being migrated from) and the new server (the D-View 7 server being migrated to). The old server has a licensed, working copy of D-View 7 on it, and the new server is a clean install of the Operating System and has no version of D-View 7 on it.

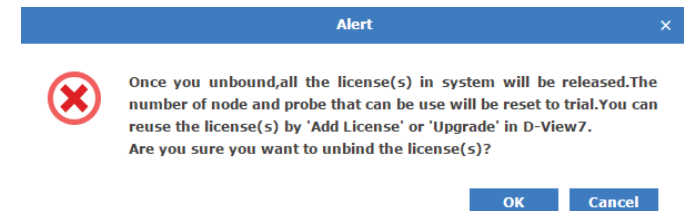
### System Requirements

These instructions are for D-View 7 version 1.2.1.0.

Please see **System Requirements** on page 9 for more information on the system requirements for D-View 7.

### Migration and Deactivation Procedure

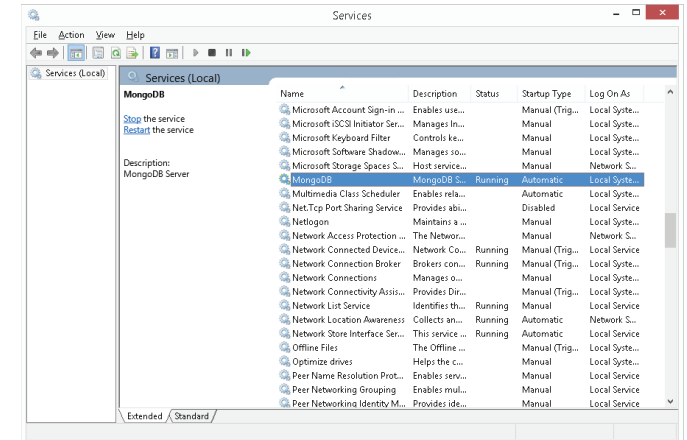
1. In D-View 7 on the old server, go to: **System > License** and click **Unbind Licence**. Press **OK** when asked if you are sure you want to unbind the licenses. This will return D-View 7 to a trial version. See **License** on page 65 for more information on the License page.



- On the old server, go to: **Start > All Programs > Accessories > Command Prompt**. Change directory to the folder that MongoDB is installed in and run `mongo.exe` to try to connect to the database:

```
cd D:\MongoDB\bin
mongo.exe
```

If there are any problems connecting to the database, ensure MongoDB is started by using the Windows Services manager.



- If the database is running, type "**use admin**" to switch to the admin database.

```
C:\bin>mongo.exe
MongoDB shell version: 2.6.5
connecting to: test
> use admin
switched to db admin
>
```

- Type "**show users**" to check whether you are authorized to use the admin database. If you get an "Error: not authorized message", enter the following to log-in as the admin user:

```
db.auth('admin','admin')
```

A result of "1" indicates that the command was successful.

```
> db.auth('admin','admin')
1
>
```

- Enter "**use DView7**" to switch to the DView7 database.

6. Enter the following to create a new user to perform the database backup:

```
db.createUser({
  user:"dview",
  pwd:"dview",
  roles:[{
    role:"readWrite",
    db:"DView7"
  }]
})
```

7. Exit the database session by typing "exit".  
 8. Run the following command at the Windows command line, substituting your own values for the ones below:

```
mongodump.exe -h host -d dbName -o dir -u user -p pwd
```

The values are:

- h: The MongoDB host IP address, e.g.: 127.0.0.1
- d: The database instance which is to be backed up, e.g. DView7
- o: The path of the database backup. It should be created before the backup operation and should be different to the MongoDB installation path.
- u: The username of the database user created earlier
- p: The password of the database user created earlier

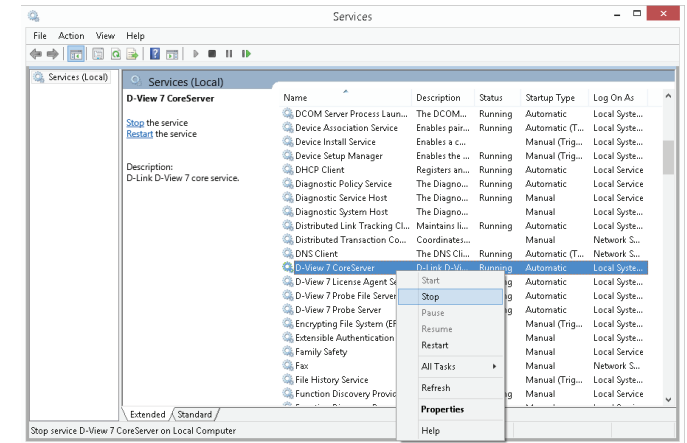
For example:

```
mongodump.exe -h 127.0.0.1 -d DView7 -o "D:\MongoDB backup" -u dview -p dview
```

```
> db.createUser(<<
... user:"dview",
... pwd:"dview",
... roles:[<
... role:"readWrite",
... db:"DView7"
... ]
... >>
Successfully added user: {
  "user" : "dview",
  "roles" : [
    {
      "role" : "readWrite",
      "db" : "DView7"
    }
  ]
}
```

```
Administrator: Command Prompt - mongodump.exe -h 127.0.0.1 -d DView7 -o... - □ ×
D:\mongo\bin>mongodump.exe -h 127.0.0.1 -d DView7 -o "D:\MongoDB Backup"
2016-10-21T15:35:07.165+0800 writing DView7.Snr_PortTraffic_Real to
2016-10-21T15:35:07.186+0800 writing DView7.Snr_ErrorPacket_Real to
2016-10-21T15:35:07.192+0800 writing DView7.Snr_ErrorPacket_HalfHour to
2016-10-21T15:35:07.198+0800 writing DView7.Snr_PortTraffic_HalfHour to
2016-10-21T15:35:08.711+0800 done dumping DView7.Snr_PortTraffic_HalfHour <15
1696 documents>
2016-10-21T15:35:08.715+0800 done dumping DView7.Snr_ErrorPacket_HalfHour <15
1696 documents>
2016-10-21T15:35:08.719+0800 writing DView7.Snr_WirelessClientStatic_RealLine
to
2016-10-21T15:35:08.722+0800 writing DView7.Snr_Ping_Real to
2016-10-21T15:35:08.951+0800 done dumping DView7.Snr_Ping_Real <38869 documen
ts>
2016-10-21T15:35:08.955+0800 writing DView7.Snr_PortTraffic_TwoHour to
```

9. Install D-View 7 on the new server. Once complete, if migrating to a new server with the same IP address, it may be necessary to deactivate the old server. This can be done by taking the old server offline or stopping the **D-VIEW 7 Core Server** service.



10. On the new D-View 7 server, perform the steps above to create the "dview" user.  
11. Run the following command at the Windows command line, substituting your own values for the ones below:

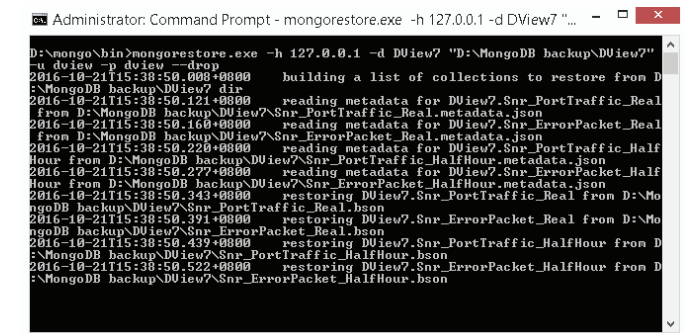
**mongorestore.exe -h host -d dbName -o dir -u user -p pwd -drop**

The values are:

- h: The MongoDB host IP address, e.g.: 127.0.0.1
- d: The database instance which is to be backed up, e.g. DView7
- o: The path of the database backup. Add the "DView7" folder to the original backup path to provide the full path to the backup made earlier
- u: The username of the database user created earlier
- p: The password of the database user created earlier
- drop: Drop the existing database so that the restore can be performed

For example:

```
mongorestore.exe -h 127.0.0.1 -d DView7 -o "D:\MongoDB backup\DView7" -u dview -p dview -drop
```



12. In D-View 7 on the new server, go to: **System > License > Add License** and upload the license previously removed from the old server. See **License** on page 65 for more information on the License page.

Once the process is complete, ensure that the previous version of D-View 7 on the old server remains deactivated.