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User Manual – Rel. 08.2.00 – 07/21
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1 Overview

For high-availability network management, the Industrial HiVision network management system enables you to install the software at 2 different locations. This provides a redundant design for:

- the network management station itself
- the connections between the 2 network management stations
Figure 1: Application for redundant Industrial HiVision installation
(4) - NAS (Network-Attached Storage), SAN (Storage Area Network)
2 Failover Cluster
2.1 System Requirements

The system requirements for a redundant network management setup using Industrial HiVision are as follows:

- Windows Servers 2019 with a shared NAS (Network-Attached Storage) or SAN (Storage Area Network)

The prerequisites are as follows:

- You have connected and configured NAS or SAN on both servers for example, over iSCSI (Internet Small Computer Systems Interface).

Figure 2: Using a shared NAS
2.2 Failover Clustering Installation

To install the Failover Clustering feature, perform the following steps for each server:

- Open the Server Manager application and click the Add roles and features option.

  The Add Roles and Features Wizard opens.

- In the Before You Begin dialog, click the Next button.
In the **Installation Type** dialog, select the **Role-based** or **feature-based installation** radio button. Then click the **Next** button.
In the Server Selection dialog, perform the following steps:

- Select the Select a server from the server pool radio button.
- In the Server Pool frame, select the desired destination server.
- Click the Next button.

In the Server Roles dialog, mark the File server and the Storage Services checkboxes, then click the Next button.
In the Features dialog, mark the Failover Clustering checkbox.

In the Add Roles and Features Wizard popup window, click the Add Features button.

In the Features dialog, click the Next button.
In the **Confirmation** dialog, click the **Install** button.

In the **Results** dialog, after the feature installation process is complete, click the **Close** button.
To finish the installation, restart the destination server.

### 2.2.1 Creation of the cluster

- Open the Failover Cluster Manager tool.
- In the Actions frame, select the Create Cluster option.
2.2 Failover Clustering Installation

The Create Cluster Wizard opens.

- In the Before You Begin dialog, click the Next button.

- In the Select Servers dialog, perform the following steps:
  - In the Enter server name field, specify the name of the servers or their IP addresses one at a time.
  - Click the Add button for each server.
  - Click the Next button.
**Note:** Verify that the selected servers are not part of other clusters.

□ In the Access Point for Administering the Cluster dialog, perform the following steps:
  ▶ In the **Cluster Name** field, specify the name of the cluster.
  ▶ In the **Address** field, specify the IP address of the cluster.
  ▶ Click the **Next** button.

**Note:** Verify that the IP address of the cluster is in the same range as the servers.
In the **Confirmation** dialog, click the **Next** button.
In the Creating New Cluster dialog, wait until the creation process ends.

In the Summary dialog, click the Finish button.
2.2.2 Validation of the Failover Cluster

To validate the Failover Cluster, perform the following steps:

- Open the Failover Cluster Manager tool.
- Click the name of your cluster (for example `hivisioncluster`) and select the Validate Cluster option in the Actions frame.

The Validate a Configuration Wizard opens.
- In the Before You Begin dialog, click the Next button.
In the **Testing Options** dialog, select the **Run all tests** radio button. Then click the **Next** button.

In the **Confirmation** dialog, click the **Next** button.
In the **Validating** dialog, wait until the validation tests end.

In the **Summary** dialog, click the **Finish** button.
2.3 Installation of Industrial HiVision

To install the Industrial HiVision application, perform the following steps:

- Install the Industrial HiVision application on the first server. Use the NAS storage area as installation directory.

  **Note:** Refer to the "Industrial HiVision (Network Management System)" user manual, "Software Overview" chapter for the installation steps.

- During the installation process, in the Configure start of services dialog, select the Start services automatically at system start option.

- To stop the cluster service, perform the following steps:
  - Open the Failover Cluster Manager tool.
  - Click the name of your cluster (for example hivisioncluster) and select the More Actions option in the Actions frame.

  - In the drop-down list, click the Shut Down Cluster entry.
Install the Industrial HiVision application on the second server. Use the same directory in the NAS storage area as for the installation on the first server.

**Note:** In this case you overwrite intentionally the previous installation.

**Note:** Refer to the "Industrial HiVision (Network Management System)" user manual, "Software Overview" chapter for the installation steps.

During the installation process, in the **Configure start of services** dialog, select the **Start services automatically at system start** option.

*Figure 3: Summary of storage*
2.3.1 Clustering of Hirschmann Industrial HiVision xx.x.xx Service

To add the Hirschmann Industrial HiVision xx.x.xx Service, perform the following steps:

☐ Open the Failover Cluster Manager tool.

☐ Click the Roles entry and select the Configure Role option in the Actions frame.

☐ The High Availability Wizard opens.

☐ In the Before You Begin dialog, click the Next button.

☐ In the Select Role dialog, select the Generic Service role and click the Next button.
In the **Select Service** dialog, select the **Hirschmann Industrial HiVision xx.x.xx Service** option and click the **Next** button.

In the **Client Access Point** dialog, perform the following steps:

- In the **Name** field, specify the name of the access point.
- In the **Address** field, specify the IP address of the access point.
- Click the **Next** button.
**Note:** Verify that the IP address of the access point is a free IP address, in the same range as the servers.

- In the **Select Storage** dialog, click the **Next** button.

- In the **Replicate Registry Settings** dialog, click the **Next** button.
In the **Confirmation** dialog, click the **Next** button.

In the **Summary** dialog, click the **Finish** button.
Figure 4: Roles

- Verify that the entries in the Cluster Service Properties dialog are as follows:
2.3 Installation of Industrial HiVision

- Verify that the Cluster Service is started on both servers.
2.3 Installation of Industrial HiVision
Appendix

A Appendix
A.1 FAQ

Answers to frequently asked questions can be found at the Hirschmann HiVision Website:

www.hivision.de
B  Readers’ Comments

What is your opinion of this manual? We are always striving to provide as comprehensive a description of our product as possible, to help ensure trouble-free operation. Your comments and suggestions help us to further improve the quality of our documentation.

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