



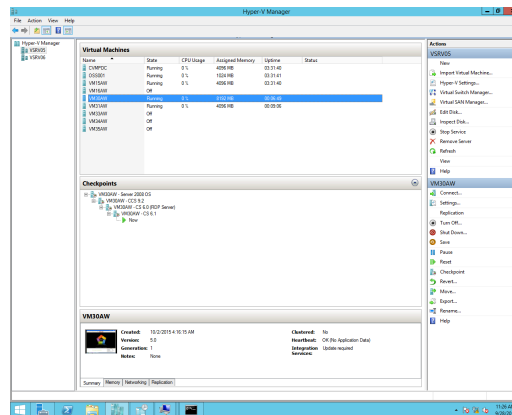
Foxboro™ DCS

Hypervisor Technology — Microsoft® Hyper-V™ Hypervisor

PSS 41S-8HYPRVOV

Product Specification

December 2024



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Overview

Virtualization of the Control Core Services and EcoStruxure™ Foxboro™ DCS Control Software is accomplished by using the Microsoft® Hyper-V Hypervisor, which provides the ability to create and manage a virtualized environment, reducing the number of physical servers and workstations which would be otherwise required in your system. Hyper-V virtualization enables you to consolidate multiple Foxboro DCS servers or workstations on one physical virtualization server.

Consolidation typically:

- Reduces the physical area required for server and workstations stations
- Reduces the power required for servers and workstations
- Can reduce the overall server or workstation cost (depending on the specific configuration)

Virtualization also increases the flexibility for changing computer resources by enabling virtual machines resource specifications, such as RAM, hard drive space, and CPU usage, to be faster and more convenient to modify than physical servers or workstations.

Microsoft Hyper-V Hypervisor is provided with the purchase of a V95 based on Windows Server® 2022 operating system.


For more information on supported virtual machines, see *EcoStruxure™ Foxboro™ DCS Model V95 Virtualization Server for Windows Operating Systems* (PSS 41H-4V95).

Features

- Creation of Control Core Services, Foxboro™ DCS Control Software, and off-Control Network virtual machines
- Virtual machine resource management regarding amount of RAM, hard drive space, NIC network connections, and quantity of CPUs
- Setup and management of virtual networks that enable virtual machines to communicate on the Foxboro™ DCS Control Network, DCS Auxiliary Communications Network (ACN), and/or other physical networks
- Ability to revert the virtual machine to a previous state with the use of temporary instant backups called “snapshots” which capture the state, data, and hardware configuration of a running virtual machine
- Virtual machine behavior management regarding the shutdown and startup of a virtualization host server

Related Documents

| Topic | Document |
|--|--|
| Centralized Virtualization Management | <i>EcoStruxure™ Foxboro™ DCS Centralized Virtualization Management for Windows Server 2022 User's Guide (B0700JH)</i> |
| DCS Auxiliary Communications Network (ACN) Configuration | <i>EcoStruxure™ Foxboro™ DCS Switch Configurator Application Software (SCAS) for the Control Network User's Guide (B0700CA)</i> |
| Security Products | <i>EcoStruxure™ Foxboro™ DCS Trellix Security Products (PSS 41S-4Trellix)</i> |
| | <i>EcoStruxure™ Foxboro™ DCS Trellix ENS 10.7 and ePO 5.10 SP1 for Windows Server 2022 Installation and User's Guide (B0700XD)</i> |
| Thin Clients | <i>EcoStruxure™ Foxboro™ DCS Thin Client (PSS 41H-4THNCLNT)</i> |
| | <i>EcoStruxure™ Foxboro™ DCS Thin Client with Windows® 10 User's Guide (B0700WC)</i> |
| Virtualization | <i>EcoStruxure™ Foxboro™ DCS Virtualization for Windows Server 2022 User's Guide (B0700WW)</i> |
| Virtualization Servers | <i>EcoStruxure™ Foxboro™ DCS Model V95 (HPE DL380 Gen11) Virtualization Host Server for Windows Server 2022 User's Guide (B0700JF)</i> |

 **WARNING:** This product can expose you to chemicals including lead and lead compounds, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.p65warnings.ca.gov/.

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