ControlPoint

Software Version 5.9.0

Support Matrix

Micro Focus®

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- Software Version number, which indicates the software version.
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Contents

Requirements

This section provides information about the requirements to successfully install and run Micro Focus ControlPoint 5.9.0 and its related components. For questions about any of these requirements, contact Micro Focus Support.

ControlPoint

This section describes the requirements for ControlPoint 5.9.0.

Hardware

This section identifies the hardware that ControlPoint 5.9.0 requires.

ControlPoint database server

The following table lists the minimum hardware requirements for the ControlPoint database server.

Component	Minimum requirement
Processors	64-bit environment - Server class processors with 16 cores, with speeds of 2.5 GHz or better (minimum).
Memory	64-bit environment **Small volumes of scanned metadata**: 32 GB RAM as a minimum, especially for the server hosting the ControlPoint databases. **Large volumes of scanned metadata**: Scale requirements depend on many factors including data sizes, usage patterns, infrastructure, and so on. The SQL Server RAM allocation should be based on the **ControlPointMetaStore** primary and secondary database file total size. Use the following table as a guide:

Range (GB)	RAM allocation factor
< 512	0.150
512 - 1024	0.100

Component	Minimum requirement
	<table><tr><th>Range (GB)</th><th>RAM allocation factor</th></tr><tr><td>1024 - 2048</td><td>0.050</td></tr><tr><td>> 2048</td><td>0.025</td></tr></table> The following examples show calculations for the recommended allocation of RAM given **ControlPointMetaStore** `*.mdf` and `*.ndf` files totaling 400, 800, and 1200 GB: • **400 GB** → 400 x 0.15 = 60 GB • **800 GB** → 512 x 0.15 + (800 - 512) x 0.10 = 76.8 + 28.8 ≈ 106 GB • **1200 GB** → 512 x 0.15 + (1024 - 512) x 0.1 + (1200 - 1024) x 0.05 = 76.8 + 51.2 + 8.8 ≈ 137 GB **NOTE:** Also, ensure that other services are not located on the same host.
Storage	For optimal performance, adhere to these guidelines: • Use the fastest performance-quality drives with the best I/O bandwidths available. For improved read and write performance of the **ControlPointMetaStore** database, Micro Focus recommends the use of an enterprise-level solid-state drive (SSD). • During ControlPoint installation: ◦ Allocate the **ControlPointMetaStore** and **tempdb** databases on their own dedicated hard drive due to high disk usage. ◦ Distribute the **ControlPointMetaStore** database across multiple drives.

Other ControlPoint servers

The following table lists the minimum hardware requirements for other ControlPoint servers.

Component	Minimum requirement
Processors	• 64-bit environment ◦ Server class processors with 16 cores, with speeds of 2.5 GHz or more (minimum)
Memory	• 64-bit environment ◦ 32 GB RAM as a minimum, especially for the server hosting the ControlPoint databases.
Network interface card	1 Gbps

Software

This section identifies the software that ControlPoint 5.9.0 requires.

Application	Requirements
Operating system	One of the following: • Windows Server 2019 • Windows Server 2016 • Windows Server 2012 R2 • Windows Server 2012 For more information about these operating systems, see your Windows Server documentation. **NOTE:** If you upgrade Windows Server, you must then reinstall ControlPoint so the application can verify that required components, such as IIS and the .NET Framework, are still available. If it determines any have changed or are missing, the installation process alerts you to reinstall them.
Windows Communication Foundation (WCF)	WCF Services HTTP Activation enabled For more information, see your Microsoft Windows Server documentation.
Internet Information Server (IIS)	One of the following, depending on Windows Server version: • IIS 10.0 on Windows Server 2019 • IIS 10.0 on Windows Server 2016 • IIS 8.5 on Windows Server 2012 R2 • IIS 8.0 on Windows Server 2012
IIS features	When configuring the Web Server (IIS) role for the ControlPoint Administration Console, activate the following: • Common HTTP Features, including Static Content
IIS modules	For proper operation of the ControlPoint API: • URL Rewrite 2.1
Microsoft .NET Framework	Both of the following: • Version 3.5 • Version 4.5
Microsoft	All of the following:

Application	Requirements
Visual C++ Redistributable Packages	- Microsoft Visual C++ 2019 Redistributable Package - Microsoft Visual C++ 2017 Redistributable Package - Microsoft Visual C++ 2015 Redistributable Package - Microsoft Visual C++ 2013 Redistributable Package - Microsoft Visual C++ 2010 Redistributable Package - Microsoft Visual C++ 2005 Redistributable Package Included for convenience in the `vcredist` subdirectories of ControlPoint IDOL packages you create.
Web browser	Required only on servers hosting ControlPoint Data Analysis and IIS: Google Chrome 72 or later
SQL Native Client	SQL Native Client, which is included for convenience in the `sqlNativeClient` subdirectories of ControlPoint IDOL packages you create.

NOTE: For Connector-related software requirements, see .

Databases

ControlPoint 5.9.0 has the following database requirements.

Application	Requirements
SQL Server	One of the following: - SQL Server 2019 Enterprise or Standard - SQL Server 2017 Enterprise or Standard - SQL Server 2016 Enterprise or Standard, SP 2 and later
SQL Server service packs and updates	Apply all currently-available and pushed SQL Server updates (critical updates and publicly-pushed individual updates) from Windows Update

Web browsers

ControlPoint 5.9.0 web applications support the following web browsers:

- Chrome 72 or later
- Edge 83 or later
- Internet Explorer 11.0

Micro Focus software compatibility

This section provides information about other Micro Focus software that is compatible with ControlPoint 5.9.0.

IDOL software and connectors

This release includes the IDOL software and connectors included with ControlPoint 5.9.0.

Component	Version	Operating system
Content Engine	12.6.0	Windows
Connector Framework	12.6.0	Windows
Content Manager Connector	12.7.0	Windows **NOTE:** Contact ControlPoint Support to obtain the required updated license.
Distributed Connector	12.6.0	Windows
Documentum Connector	12.4.0	Windows
Edge FileSystem Connector	12.6.0	Windows
Exchange Connector	12.6.0	Windows
File System Connector	12.6.0	Windows Includes file shares on CIFS and NFS on NetApp storage, and NTFS.
Hadoop Connector	12.0.1	Windows
IDOL Server	12.6.0	Windows
License Server	12.6.0	Windows
Notes Connector	12.4.0	Windows
Omni Group Server	12.6.0	Windows
SharePoint Remote Connector	12.6.0	Windows

IDOL grammars

ControlPoint 5.9.0 supports the following IDOL grammars:

- **GDPR grammars**
  - Address
  - Date
  - Driving
  - Health
  - MRTD (Machine Readable Travel Document)
  - Name
  - National ID
  - Passport
  - Postal code
  - Telephone
  - TIN (Tax Identification Number)
- **PII grammars**
  - PII Address
  - PII Date
  - PII Driving
  - PII Health
  - PII MRTD (Machine Readable Travel Document)
  - PII Name
  - PII National ID
  - PII Passport
  - PII Postal code
  - PII Telephone
  - PII TIN (Tax Identification Number)
  - PII Combined Address
  - PII Combined Date
  - PII Combined Driving
  - PII Combined Health
  - PII Combined Name
  - PII Combined National ID
  - PII Combined Passport
  - PII Combined Postal code

- ○ PII Combined Telephone

- ○ PII Combined TIN

For more information about either of these grammars, see the *Micro Focus IDOL PII Package* documentation, which contains both sets.

ControlPoint Connectors

This section describes the requirements for connectors used with ControlPoint ControlPoint.

ControlPoint IDOL and connectors

ControlPoint IDOL, Metastore, and connectors, which you install using deployment packages created during ControlPoint installation, have the following software and IDOL license requirements.

Software

Component	Requirements
ControlPoint IDOL packages	Install all of the following components on each target server: • Microsoft Visual C++ 2019 Redistributable Package • Microsoft Visual C++ 2017 Redistributable Package • Microsoft Visual C++ 2015 Redistributable Package • Microsoft Visual C++ 2013 Redistributable Package • Microsoft Visual C++ 2010 Redistributable Package • Microsoft Visual C++ 2005 Redistributable Package • SQL Native Client These items are included for convenience in the `vcredist` and `sqlNativeClient` subdirectories of the deployment package you create.

Content Manager Connector	Install and register Content Manager components as follows:
	
	• Install Content Manager `CM_client` and `CM_ComComponents` on all servers that will host the following:
	
	  ○ Content Manager Connector
	
	  ○ ControlPoint Administration Console
	
	  For installation information, see the *Micro Focus Content Manager Installation and Setup Guide*.
	
	• Register `Trimsdk.dll`

Component	Requirements
	To register this file, which is located in the CM94 client installation folder (`Micro Focus\Content Manager`, by default), run the following command: `regsvr32 trimsdk.dll`
Content Manager Connector permissions	Configure the following permissions: **table below**
Documentum Connector	Obtain .Jar files that the Documentum connector requires. The ControlPoint installation and upgrade processes require you to place these files in a specific location. For information or help obtaining these files, contact the Documentum Support team.
Exchange Connector	Install Exchange client software on all servers that will host the Exchange Connector. ControlPoint supports the following versions of Microsoft Exchange, each updated with its most recent service pack: • Microsoft Exchange Online

Configure the following permissions:

For the user that...	Do this...
Runs the Content Manager Connector account	• Add as a trusted account in Content Manager Enterprise Studio This user account impersonates the TRIMService account when retrieving items from the Content Manager dataset for indexing into ControlPoint IDOL. • Ensure the user is a valid Content Manager user Required to browse a Content Manager type of repository through the ControlPoint Administration Console.
Runs the ControlPoint Web Application Pool	• Add as a trusted account in Content Manager Enterprise Studio. This user account impersonates the user logged in to ControlPoint in order to retrieve the list of origins from the dataset.
Runs ControlPoint	• Ensure the user is a valid Content Manager user and has sufficient rights to view the origins.

Component	Requirements
	• Microsoft Exchange 2019 • Microsoft Exchange 2013 • Microsoft Exchange 2010
Notes Connector	Install Notes client software on all servers that will host the Notes Connector.
SharePoint Remote Connector	Enable Windows Identity Foundation (WIF) 3.5 on all servers that will host the SharePoint Remote Connector. ControlPoint supports the following versions of SharePoint, each updated with its most recent service pack: • SharePoint Online • SharePoint 2019 • SharePoint 2016 • SharePoint 2013 • SharePoint 2010

IDOL license

To use IDOL, you need either an OEM License Server or a valid Enterprise license key file. Contact Micro Focus Support to request the appropriate license file for your installation.

IDOL Connectors NiFi support

To add an XML repository to ControlPoint using IDOL libraries through NiFi, a server with the following components is required.

Component	Description
NiFi software	Apache NiFi 1.9.0 The *NiFi System Administrator's Guide*, available on the Apache NiFi website, identifies all NiFi system requirements and provides information about how to install, configure, and use NiFi.
Microsoft Visual C++ Redistributable Packages	Microsoft Visual C++ 2017 Redistributable Package
License server	Any license server, including the default one used by ControlPoint. The license file must support the NiFi connector.

ControlPoint Edge Filesystem connector

The Edge Filesystem connector runs Archive policies on documents and files held in Windows file shares. The requirements for this connector are listed in the following table.

Component	Description
Operating system	Any of the following: • Windows Server 2019 • Windows Server 2016 • Windows Server 2012 R2
Microsoft .NET Framework	Both of the following: • Version 3.5 • Version 4.5
BIOS Settings	On computers running Windows Server 2016 and later, ensure that the BIOS feature **Secure Boot** is disabled. You cannot install the Edge filesystem connector if this setting is enabled.
ControlPoint	Installed and configured.

Utilities

This section identifies the requirements of ControlPoint 5.9.0 utilities.

Remote Analysis Agent and statistics de-obfustication

This utility has the following software requirements.

Software	Requirement
Operating system	One of the following: • Windows Server 2019 • Windows Server 2016 • Windows Server 2012 R2
Microsoft .NET Framework	Both of the following: • Version 3.5 • Version 4.5

For more information, see the *Micro Focus ControlPoint Remote Analysis Agent Technical Note*.

Ports

ControlPoint 5.9.0 components require specific TCP/IP ports. If your environment uses a firewall, ensure the ports in the following table are open so ControlPoint can use them.

Component	Port
OGS	
• Server	4057
• Service	4059
MetaStore	
• Server	4500
• Service	4502
Distributor Connector	
• Server	7000
• Service	7002
File System Connector	
• Server	7200
• Service	7202
Content Manager Connector	
• Server	7300
• Service	7302
Exchange Connector	
• Server	7600
• Service	7602
SP Remote Connector	
• Server	7800
• Service	7802
Documentum Connector	
• Server	7900
• Service	7902

Component	Port
IDOL	
• Server	9000
• Index	9001
• Service	9002
IDOL > Category	
• Server	9020
• Service	9021
IDOL > Community	
• Server	9030
• Service	9031
IDOL > Agent Store	
• Server	9050
• Index	9051
• Query	9052
• Service	9053
IDOL > DAH	
• Server	9060
• Service	9061
IDOL > DIH	
• Server	9070
• Index	9071
• Service	9072
IDOL > View	
• Server	9080
• Service	9081
Data Analysis Controller	9672
License Server	
• Server	20000
• Service	20002

Component	Port
Data Analysis	
• Server	31500
• Index	31501
• Service	31502
Content Engine	
• Server	32000
• Index	32001
• Service	32002

Virtualization products

Micro Focus recommends that you use physical servers for the ControlPoint environment, especially for SQL Server.

Other software coexistence

The following software requires special consideration in a ControlPoint environment:

- **Antivirus software**

  There are adjustments you can make to prevent antivirus software from impacting ControlPoint performance of ControlPoint host machines. For more information, see the *Micro Focus ControlPoint Installation Guide*.

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