

Agilent Cary WinUV Pharma Revision 5.1.3 – Site Preparation Checklist

Thank you for purchasing an Agilent instrument. To get you started and to assure a successful and timely installation of your Agilent Cary WinUV Pharma **software**, please refer to this specification and set of requirements.

Correct site preparation is the key first step in ensuring that your instruments and software systems operate reliably over an extended lifetime. This document is an **information guide and checklist** that outlines the supplies, consumables, space and utility requirements for your equipment.

Customer Responsibilities

Make sure your site meets the following specifications before the installation date. For details, see specific sections within this checklist, including:

- The computing environment and the necessary space is made available
- The number & location of electrical outlets for your computer systems and peripherals are planned
- That your site meets the software, hardware and networking specifications below
- Locate your sales order information, software authorization codes and/or software licenses/certificates
- The necessary software media, disks etc. are available including upgrade/update disks
- That a suitable backup solution is identified for your software
- Availability of a system/network administrator as needed to connect to your network and configure the system
- Please consult Other Requirements section below for other product-specific information.

If Agilent is delivering installation and familiarization services, users of the instrument should be present throughout these services; otherwise, they will miss important operational, maintenance and safety information.

- For more details about the installation requirements of Cary WinUV Pharma, please consult the following documents for your version of Cary WinUV Pharma:
 - Agilent Spectroscopy Configuration Manager System Requirements
 - Agilent Cary WinUV Pharma Software Installation Instructions for 21 CFR Part 11 Environments
 - And the Spectroscopy Configuration Manager (SCM) Software, 21 CFR Part 11 Compliance Booklet
 - Agilent Cary WinUV version 5_1_3 Release Notes
 - Agilent Cary UV Pharma SSB
 - Agilent Cary WinUV SSB
- Additional, up-to-date information is available in the Agilent Cary WinUV Pharma SSB.
- These documents will be provided to you with the purchase of your Cary WinUV Pharma software but please ask your Agilent representative to provide them to you for review before purchase or arrival for installation by your Agilent representative.

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Important Customer Information

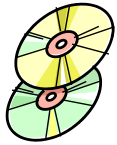
1. If you have questions or problems in providing anything described as a Customer Responsibility above, please contact your local Agilent or partner support/service organization for assistance prior to delivery. In addition, Agilent and/or its partners reserve the right to reschedule the installation dependent upon the readiness of your laboratory.
2. Should your site not be ready for whatever reasons, please contact Agilent as soon as possible to re-arrange any services that have been purchased.
3. Other optional services such as additional training, operational qualification (OQ) and consultation for user-specific applications may also be provided at the time of installation when ordered with the system, but should be contracted separately.
4. You should ensure that all necessary operating supplies for the successful installation of instruments and systems are available. Installation sites should be prepared in accordance with the information outlined in this document.

Important Version and Hardware Information

1. Please refer to Table 1 for supported Cary WinUV and hardware configurations.

Table 1. Supported Hardware, Software and Firmware Combinations

Supported Cary WinUV Pharma and Instrument Configurations			
Cary WinUV Version	Cary Pharma Version	Supported Instrument Hardware	Comments (if applicable)
5.1.3.1242 ¹	5.1.3 ²	Agilent Cary 60 ³	1. FW 6.4.0.141 2. English only 3. Cary 50 is not tested or supported for this release

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Software Specifications for Workstations, Clients, and Servers (Pharma)

Special Notes

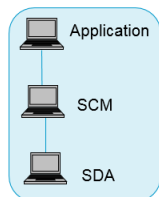
1. Implement a backup strategy or backup all of your data before making any changes.
2. No other instrument control software must be installed.
3. A user logon with full administrative capabilities is required.
4. Upgrading from Cary WinUV Pharma version 5.0.0.1004 or earlier will require updates to the PC or operating system. This means an upgrade cannot be installed over an existing installation.
5. If upgrading from Cary WinUV Pharma 5.0.0.1005 or later, Cary WinUV does not need to be uninstalled but you must manually uninstall both the SCM and SDA applications. Please follow the upgrade instructions in the Agilent Cary WinUV Pharma Software Installation Instructions for 21 CFR Part 11 manual. Failure to follow the instructions exactly may require the PC needing to be reimaged.
6. Upgrading the Cary WinUV Pharma software requires backing up SCM settings and SDA databases so they can be used for the new system. Make sure the instructions in the manual above are followed otherwise data/setting loss will occur.

There are some administrative tasks that need to be performed before and after installation of Cary WinUV Pharma - refer to Table 2 and the rest of this document and the Pharma software installation booklet.

Table 2. Supported Operating Systems and Settings

Specification Description	Supported	Comments (if applicable)
Operating system type(s), versions	Windows 10 Professional ^{1, 2, 3, 4} Windows 10 Enterprise ^{1, 2, 3, 4} Windows Server 2008 R2 SP1 ^{1, 3, 4} Windows Server 2012 R2 ^{1, 3, 4}	1. 64-bit only 2. Cary 60 only 3. English only for Pharma 4. Manual install of .NET Framework 3.5 SP1 is required
Account settings/privileges	Full Local Administrator Rights	Required for installation, configuration, upgrade or modification
Microsoft Windows Updates	Outstanding updates must be completed or must not start before installing software	Disconnect the PC from the network while performing the installation and configuration
Power Saving	Not supported	Any PC power saving functions should be disabled
SQL Server	Microsoft SQL Server 2014 Express Ed.	The Hardware and Software Requirements for Installing SQL Server 2014 must be met
Microsoft .Net	3.5	Must be installed before installation of WinUV Pharma.

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Cary WinUV Pharma Scenario Options

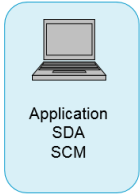
Special Notes

1. Cary WinUV Pharma allows for installation in different scenarios (Table 3)
2. The scenario chosen depends on the desired configuration for collection of data and control of electronic records using the Pharma application.
3. Scenario 1 is for local computer installations (using local or domain users)
4. Scenario 2 and 3 is for installation over a network
5. You must decide on the scenario being used for your installation before your Agilent representative arrives onsite.
6. For Scenarios 2 and 3, your IT support personnel must be present during the installation and configuration. If they are not present, it is possible that installation cannot be completed in the allotted time and this may result in extra charges.
7. Refer to the Table 3 for the Scenario options
8. Terminology:
 - a. The software used to run the instrument is known as the '**application software**'.
 - b. Spectroscopy Configuration Manager (**SCM**) provides you with a tool to manage your 21 CFR Part 11 environment by allowing you to create, configure and maintain data in relation to system security, user management and data paths.
 - c. Spectroscopy Database Administrator (**SDA**) provides a database environment to store and maintain your data.
 - d. The **IT Server** (Scenario 2/3): is the computer where the data is stored
 - e. The **Laboratory Management Computer** (Scenario 2): is where the users, profiles and privileges are managed
9. Installation outside of the instructions provided will require external IT support and independent validation.

Table 3. Scenarios

Options	
Scenario 1	<ul style="list-style-type: none"> • All software is installed on the computer connected directly to the instrument
Scenario 2	<ul style="list-style-type: none"> • Application software is installed on the instrument computer • SCM is installed on the laboratory management computer • SDA is installed on an IT server.
Scenario 3	<ul style="list-style-type: none"> • Application software is installed on the instrument computer • SDA and SCM are installed on IT server.

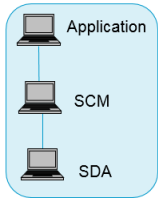
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Software Specifications for Cary WinUV Pharma (Standalone)

Special Notes

1. Implement a backup strategy or backup all of your data before making any changes.
2. Before you install your software, please check with your network administrator that the computer has a unique name that will not be changed in the future. If the computer is to be connected to a domain, please ensure that this is completed before installing your software.
3. Agilent strongly recommends that your software is installed while logged in as a domain user with administrative privileges.

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Software Specifications for Cary WinUV Pharma (Network)
Special Notes

1. Implement a backup strategy or backup all of your data before making any changes.
2. Before you install your software, please check with your network administrator that the computer has a unique name that will not be changed in the future. If the computer is to be connected to a domain, please ensure that this is completed before installing your software.
3. It is essential that support from an IT representative is available. They will need to assist in allowing the required access to the domain, the creation of domain groups and the assignment of users to their target groups if required. See Table 4 for more information.
4. A user with local administrator rights for the IT Server and for the Workstation is required so configuration can take place.
5. A Domain user used for the installation must exist and the global groups to handle Cary WinUV users must be available.
6. A global account for the Cary WinUV administration is required.
7. The target computers for the installation must be members of the Domain.
8. The domain server and the server for the data must be different machines.
9. Please review the document "Agilent Cary WinUV Pharma Software Installation Instructions for 21 CFR Part 11" for further information.
10. Having Cary WinUV operate within a Cary WinUV Pharma in a network environment, requires some configuration tasks on the Cary WinUV Pharma Server.

Table 4. Important Network Requirements

Specification Description	Supported	Comments (if applicable)
Agilent Spectroscopy Configuration Manager System Requirements	Microsoft Windows 2008 Active Directory – Single Forest / Single Domain model environment	
Network Active Directory/Domain Users	Yes ¹	1. Active Directory is required if using network domain users

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Required Configuration Items
Special Notes

1. Particularly in the case of network installations, several software services and applications must not be prevented from running or getting access through the computer firewall.
2. Implement a backup strategy or backup all of your data before making any changes.
3. Before you install your software, please check with your network administrator that the computer has a unique name that will not be changed in the future. Changes to this configuration item after installation and configuration will result in a non-operational system. This is not covered under any warranty services and extra costs may be involved if a site visit is required to rectify this.
4. If the computer is to be connected to a domain, please ensure that this is completed before installing your software.
5. Agilent requires that your software is installed while logged in as a domain user with administrative privileges.

Table 5. Configuration Items

Specification Description	Supported	Comments (if applicable)
Region and Language settings/compatibility	English	Only English is supported for Pharma
.Net Framework	Microsoft .NET Framework 3.5 or 4.5.1	
Add as exceptions to the Windows Firewall	<ul style="list-style-type: none"> • sqlservr.exe • sqlbrowser.exe • nxServer.exe • configManager.exe 	It may also be necessary to open firewall ports: TCP 1433 and UDP 1434

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Computer Hardware Specifications for Workstations, Clients, and Servers
Special Notes

1. This is provided as a guide only.
2. The PC configuration must be listed in the Microsoft Windows Marketplace Tested Products List Hardware section for each respective operating system. If your PC hardware is not tested, then the system may not work with the supported operating system.
3. The software runs on systems with sufficient random access memory (RAM) installed. Depending on the usage of the system and the desired data throughput, those systems may not exhibit acceptable performance.
4. In all cases, an appropriate amount of virtual memory should be configured.
5. Some scheduled or background processes like virus checking or defragmenting may cause instrument communication or other performance problems. To avoid these kinds of problems it is required to disable any scheduled events and minimize or eliminate any background processes.

Table 6. Recommended Minimum PC

Specification Description	Minimum	Recommended (if applicable)	Comments (if applicable)
Processor type & speed	3 GHz	Quad Core	
RAM	4 GB (2 GB for Microsoft Windows 7)		>4GB is recommended
Internal Storage/devices/media	DVD-ROM Drive		
Screen Resolution	Super VGA 800 x 600	>Super VGA	
Video Graphics Adapter	16-bit colors, 1MB video RAM		
Printing devices		Default Printer	No default printer could result in reporting and other errors.
Pointing devices		Computer Mouse	Microsoft Compatible
Interface	USB 2.0 or greater		Required for Cary 60 instrument communication
Hard Disk	250 GB		>250 GB is recommended
LAN		100/1000 MBIT	Required for network connectivity

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Other Requirements

1. Important web links
Microsoft Hardware Compatibility Lists
<http://www.microsoft.com/whdc/hcl/default.msp>
Links to specific O/S fixes, updates needed
<http://support.microsoft.com/>
2. For the Cary 60 there is no need to manually load the firmware onto the Cary 60 as this is automatically done once the instrument is connected to the Cary WinUV software. This means that the Cary 60 will always have the appropriate version of firmware that was used/tested with the software.
3. Cary 50 is not tested or supported for this version of Cary WinUV
4. Cary WinUV Pharma for this release uses Microsoft SQL Server 2014 Express Edition and Microsoft .NET Framework 3.5 or 4.5.1 (if they are not already installed on your computer). Other versions of SQL Server may work but have not been tested or validated by Agilent.
5. The Software Status Bulletin, SSB, contain other important information for this release of Cary WinUV.
6. For addition important information please read the Release Notes that come with your software.

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Important Customer Web Links

- For additional information about our solutions, please visit our web site at <http://www.chem.agilent.com/en-US/Pages/HomePage.aspx>
- Need to get information on your product?
Literature Library - <http://www.agilent.com/chem/library>
- Need to know more?
Customer Education - <http://www.agilent.com/chem/education>
- Need technical support, FAQs? - <http://www.agilent.com/chem/techsupp>
- Need supplies? - <http://www.agilent.com/chem/supplies>

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Document Control Logs

Revision Log

Revision	Date	Reason For Update
Rev. A.00.01	12-April-2019	First release for Cary WinUV 5.1.3.1242

Approval Log

Revision	Approver	Title of Approver
Rev. A.00.01	Dennis Toce	Product Support Engineer