SAS 9.2.2 Installation via the Client-Server Image (CAHNRS Site License)

Requirements and preliminary steps

- SAS 9.2.2 is supported on Windows 7 Professional/Enterprise, and Windows 7 Ultimate. Windows 8/8.1 Pro/Enterprise versions can run SAS 9.2.2 but must first install Microsoft .net Framework 3.5. This is a downloadable file from Microsoft contact CWR Support listed at the bottom of this page. [Home versions of Windows are absolutely **NOT** supported.]
- As of April, 2014 Windows XP is no longer supported by Microsoft they dropped official support for this product as of 4/8/14. CAHNRS CWR policy now states that we will not provide any significant support for Windows XP. Furthermore, PCs running Windows XP are considered a significant threat to network security in general and should be replaced as soon as practical.
- Windows Vista Business will be officially supported by Microsoft until 4/11/17. However, we don't see many Vista machines in service anymore (that's a good thing). This OS was quickly replaced by Windows 7 and Vista users should seriously consider upgrading or replacing their machines.
- Run Windows Update and make sure all Critical/High Priority patches are installed.
- Update JAVA Runtime or download and install the JAVA Runtime environment if it is not installed, see instructions for further details
- The user must have a <u>wired</u> connection to the WSU network and the user must maintain this connection to install and execute SAS. Wireless connections will not work.
- The user must authenticate with an AD (WSU Net ID) domain user ID.
- If running SAS version 9.1.x or older (e.g. 8.x), you must un-install the older version first. To do so go to Control Panel, Add/Remove Programs (Programs & Features in Vista) remove the old SAS version & reboot your PC.
- You must allow yourself at least 1 to 3 hours for this process. Follow the directions explicitly and be **very** patient.

IMPORTANT NOTE: If you have questions about any of this, please email CWR Support – <u>cwr.support@wsu.edu</u>. This includes topics such as connecting to the server, 64bit SAS, etc.

SAS 9.2.2 Client-Server Install – the Details

There are three parts to this process – 1) Preparing for setup – JAVA and Network links, 2) uninstalling previous versions of SAS including the first 9.2 release, and 3) Installing this version of SAS 9.2.2 (SAS 9.2 TS Level 2M3)

Part 1 - Preparing to Install SAS

Preparing Network Connection to install SAS 9.2.2

You will need to create a network link to the server folder <u>\\cru20.ad.wsu.edu\SAS\SAS Server\SAS922-32bit</u>. In Windows 7/8 open "Computer" and add a "Network Location" by typing in "\\cru20.ad.wsu.edu\SAS\SAS Server\SAS922-32bit" in the "Internet or network address" window. Here are detailed instructions about making these connections:

A) IF you log into the AD domain when you start your computer you can do the following:

- 1) Windows 7/8 users can also create a "Network Location" this is the **PREFERED** option.
- Open Windows Explorer and click on the Computer icon.
- Go to File, Add a network location. (You can also left-click in the open pane and select "Add a network location") click Next when the Add a network location window opens.
- Type in the network address "\\cru20.ad.wsu.edu\SAS\SAS Server\SAS922-32bit" and click Next.
- Type in a name for the new network location "SAS922" will work but you can name it anything that makes sense to you. Click Next and Finish.
- 2) Optionally, you can create a mapped drive to the server address (**NOTE** this doesn't work well when multiple users login to the machine):
- Right Click on the My Computer icon and select "Map a Network Drive".
- You can use any available letter for your mapped drive when the Mapped drive wizard opens type in "\\cru20.ad.wsu.edu\SAS\SAS Server\SAS922-32bit" (without quotes) in the Folder window.
- Leave the "Reconnect at logon" box checked.
- If you don't login into the WSU AD domain (AD\WSUNetID) when your computer starts then you will need to check the "Connect using different credentials" box and provide your WSU user ID (AD\WSUNetID) and password when prompted.
- Click Finish.

Install the JAVA Runtime Environment

An older version of JAVA runtime is required to run SAS 9.22x. Once you have established the necessary network connection to the SAS Server (above), navigate to the folder labeled "JavaForSAS922" and double click on this file to install the runtime client: "jre-6u45-windows-i586.exe". This will install JAVA runtime 6.45 which is very stable with SAS 9.22.

Notes:

- If you already have a newer version of JAVA installed that is fine. However, when you update JAVA (as you should), do not let the installer remove old versions of JAVA or your SAS won't work properly.
- JAVA version(s) 8 will not work with SAS 9.22.

Once JAVA 6.45 is installed, you may proceed to the next step, installing SAS.

Part 2 – Uninstalling Old Versions – if an older version of SAS is NOT installed then skip to PART 3.

Uninstalling SAS 9.1x or first release of SAS 9.2

Go to Control Panel and select Programs and Features. Uninstall all SAS modules and reboot the PC. You may end up repeating this step to remove all modules. After reboot, navigate to Control Panel, Programs and Features and remove any remaining SAS modules. In this example, you would Uninstall SAS IML/Studio from the following list, close the Control Panel and reboot your PC again:

Eile Edit View Tools Help	-				
Control Panel Home	Uninstall or change a program				
View installed updates	To uninstall a program, select it from the list and then	click Uninstall, Change, or Repair.			
Turn Windows features on or	·				
off	Organize Vininstall Change				
Install a program from the	Nama	Dublisher	Installed On	Cine	Marsian
network	Mineres & MCC 2.0 Durbins	Publisher	Installed On	512e	2 0 F20F 0
	Microsoft WSE 3.0 Runtime	Microsoft Corp.	4/8/2010	942 KB	3.0.5305.0
		Microsoft Corporation	12/13/2010	1 07 MD	4 20 0970
	MISANIE 4.0 SP2 (KD954450)	Microsoft Corporation	11/10/2009	1.27 IVID	4.20.9670.
	MISANIE 4.0 SP2 (KB975000)	Microsoft Corporation	1/20/2009	1.55 IVID	4.20.9670.
	Password Safe 3.21 for Windows	Rony Shapiro	2/17/2010	8.80 MB	3 21
	PowerDVD DX	Cyberlink Corp	10/26/2009	0.00 110	835424
	PuTTY version 0.60	Simon Tatham	2/9/2010		0.60
	OuickTime	Apple Inc	4/22/2010	73.7 MB	7 66 71 0
	OWS3270 Secure	Iolly Giant Software Inc	6/8/2010	7 38 MB	45
	Restorer2000 Professional	Sony clane Solenare Inc.	8/19/2010	1.50 1115	
	Boxio Creator DE 10.3	Boxio	10/26/2009	96.6 MB	10.3
	SAS Download Manager 1.43		1/24/2011		1010
	SAS/IML Studio 3.3	SAS	2/7/2011		3.3
	SeaTools for Windows	Seagate Technology	5/17/2010	20.1 MB	1.2.0.2
	SolarWinds Advanced Subnet Calculator	SolarWinds	3/29/2010	26.5 MB	9.1
	SolarWinds TFTP Server	SolarWinds	7/22/2010	1.43 MB	9.1
	•				
	SAS Product version: 3.3	Support link: http://www.SAS.com			
	Help link: http://www.SAS.com				

If you have any questions about uninstalling old versions of SAS – please contact the Computing & Web Resources unit. Email: <u>cwr.support@wsu.edu</u>.

Part 3 – Installing the new SAS

Navigate to the Network location you created in step 1 (see page 5) - Double-click on Setup.exe (Window 7/8 users can also right-click on the file and select "Run as Administrator"):

the Four Alem Tools Helb						
Organize 🕶 🖻 Open 👻 New folder 📰 👻 🗍 🚱						
scru20	*	Name	Date modified	Туре		
👢 NetNotes		👃 sid_files	2/2/2011 5:55 PM	File folder		
🤳 SharedApps (cru11)		👢 third_party	2/2/2011 5:16 PM	File folder		
👢 dpitwork		👢 utilities	2/2/2011 5:32 PM	File folder		
My Documents		autorun.inf	10/2/2009 1:52 PM	Setup Information		
		basicins.rexx	5/22/2009 2:28 PM	REXX File		
🚞 Libraries		cd.id	2/2/2011 4:48 PM	ID File		
Documents		🙆 depotsummary.html	2/2/2011 5:55 PM	HTML Document		
🕹 Music		linemode.rexx	3/4/2010 11:11 AM	REXX File		
Se Pictures		Saslogo.ico	9/13/2007 4:45 PM	Icon		
States Videos		sassd.lck	2/4/2011 10:40 AM	LCK File		
	=	sassd.txt	2/2/2011 4:48 PM	Text Document		
💐 Computer		sassw.config	2/2/2011 1:58 PM	XML Configuration		
🧶 OS (C:)		setup.dat	2/2/2011 5:55 PM	DAT File		
INTAPART1 (D:)		S setup.exe	10/28/2010 3:39 A	Application		
I New Volume (F:)		setup.rexx	12/21/2009 3:33 PM	REXX File		
		setup.sh	1/15/2010 10:24 A	SH File		
💽 Network		setup_vms.com	10/28/2010 3:39 A	MS-DOS Applicati		
	-	•		•		

The SAS Deployment Wizard will start:

SAS Deployment Wize	ard	
<u>s</u> .sas		
	SAS [®] Deploym Wizard 9.2	ent
THE POWER TO KNOW.		
Copyright © 2010, SAS I	nstitute Inc., Cary, NC, USA, All Rights R	eserved

Select English and click OK:

S Choose Language
Select a language in which to view the SAS Deployment Wizard.
English
OK Cancel

Make sure "Install SAS software" is selected and click Next:

SAS Deployment Wizard	
Select Deployment Task Select the deployment task you would like to perform.	
End User Tasks	
C Install SAS software	
Choose this option to install SAS software on this machine	2.
Administrator Tasks	
C Manage this SAS Software Depot	
Choose this option to manage this SAS Software Depot. ' orders with this option.	You can view SAS software
<u>H</u> elp < <u>B</u> ack	Cancel

From the list illustrated below (this view shows only lower portion of the scroll-down list):

1) <u>Un-Select</u> SAS Enterprise Guide, leave the other items checked and then add the following:

- 2) Select Report Fonts for Clients (not visible below, you will find it at the top of the list).
- 3) Select SAS Drivers for OBDC
- 4) <u>Select</u> SAS OnlineDoc for Windows
- 5) <u>Select</u> SAS Universal Viewer
- 6) <u>Select</u> SAS/GRAPH ODS Graphics Editor, then, click Next:

SAS Deployment Wizard		X
Select Products to Install		
Select the products you want to install on this machine.		
Products to install: SAS Foundation and related software		▼
Product	Info	
SAS Drivers for JDBC	0	
SAS Drivers for ODBC	0	1
□ SAS Enterprise Guide	0	
SAS Foundation	0	
SAS Foundation Services	0	
SAS Help Viewer for the Web	0	
🗵 SAS Integration Technologies Client (standalone product - click Help for more	e 🕕	
SAS Intelligence Platform Object Framework	0	
SAS Locale Setup Manager	0	
SAS Management Console	0	
□ SAS OnlineDoc for the Web (requires Web server)	0	
SAS OnlineDoc for Windows	0	
SAS Package Reader (Advanced)	0	
🗆 SAS Personal Login Manager	0	
SAS Power and Sample Size	0	
SAS Providers for OLE DB (standalone product - click Help for more informati.	0	
SAS Scalable Performance Data Server Plug-in for SAS Management Console	0	
SAS Simulation Studio	0	
SAS SQL Library for C	0	
SAS Universal Viewer	0	
SAS Web Application Themes	0	
SAS Web Infrastructure Client	0	
SAS Web Infrastructure Platform	0	
SAS XML Mapper	0	
SAS/ETS Model Editor	0	
SAS/GRAPH ActiveX Control (standalone product - click Help for more inform	i 🚺	
SAS/GRAPH Java Applets (Advanced)	0	
SAS/GRAPH NV Workshop	0	
SAS/GRAPH ODS Graphics Editor	0	
SAS/IML Studio	0	
SAS/SECURE Windows Client Components	0	-
<u>S</u> elect All <u>C</u> lear All		
<u>H</u> elp < <u>B</u> ack <u>N</u> ext :	> Cancel	

IF you are installing this 32bit version of SAS on a Windows 7/8 Professional *64bit machine*, you will see the following window – you **MUST** select "32bit-compatibility mode" and then click Next:

SAS Deployment Wizard			-	-	
Select SAS Foundation Mode Select which mode of SAS Foun	dation to install.				D C C
SAS Foundation can be installed in a install from the options below. 6 54-bit Native Mode SAS Foundation will be installed access memory beyond the 4 Ge 7 32-bit Compatibility Mode SAS Foundation will be installed compatibility mode are limited.	one of two modes on this I to run in 64-bit native m B limit imposed on applic I to run in 32-bit compatil to 4 GB of memory by the You MUST select 32-bit	ode. App ations rur bility mod e operatin t	. Select which lications runni nning in 32-bit le. Application g system.	mode of SAS F ng in 64-bit nat compatibility r s running in 32	oundation to tive mode can node. -bit
Help	Compatibility Mode		< <u>B</u> ack	<u>N</u> ext >	Cancel

Don't change anything here, click Next:

SAS Deployment Wizard				
Specify SAS Installation Data File				
Specify the full path to your SAS instal	lation data file.			
\\cru20\SAS\SAS Server\SAS922-32bit\si	d_files\SAS92_999F66_70006608	_Win_Wrks	tn.txt	Bro <u>w</u> se
Details of the selected SAS installation da	ita file:			
Product: SAS 9.2				<u> </u>
Platform: Microsoft Windows Workstatic	on 32-bit			
Order: 999F66				
Licensed SAS Foundation Software	Expiration Date			
Base SAS	30NOV2011			
Education Analytical Suite	30NOV2011			T
Help		< <u>B</u> ac	k <u>N</u> ext >	Cancel

Click on the "Clear All" button (we do not support installation in other languages), Click Next:

SAS Deployment Wizard					
Select Language Support Select the languages for your software to support.					
Select the languages you would like to install for the products listed below. Only languages that work with your locale will be installed.					
SAS Foundation					
Chinese Simplified Chinese Traditional (Taiwan) DBCS Extensions	<u>^</u>				
 ☑ Dutch ☑ English ☑ English with DBCS Support 					
French	•				
Select All	_				
Help < Br	ack <u>N</u> ext > Cancel				

Click Next:

SAS Deployment Wizard							
Select Language Support	00						
Select the languages for your software to support.	Select the languages for your software to support.						
Select the languages you would like to install for the products listed below. Only languages that work with your locale will be installed.							
SAS Foundation							
Chinese Simplified	<u> </u>						
Chinese Traditional (Taiwan)							
DBCS Extensions							
Dutch							
🗹 English							
English with DBCS Support							
French	-1						
Select All							
Help	< <u>B</u> ack <u>N</u> ext > Cancel						

IF you see a window prompting you to Select JAVA Runtime Environment as illustrated in this screenshot, and you have followed the instructions in Part 1 of this document, then enter the following in the path in the window provided - "C\Program Files(x86)\Java\jre6". [Users of Windows 7/8 32bit will find the directory listed as "C\Program Files\Java\jre6"]:

SAS Deployment Wizard		- • ×
Select Java Runtime Environment Select a Java Runtime Environment to use with SAS software.		
The SAS products being installed require a Java Runtime Environment	t.	
View Information About Supported Java Runtime Environment	Versions	
C Use the recommended Java Runtime Environment		
This option ensures that your SAS software is running with the ver recommended by SAS.	rsion of the Java Runtime Enviro	nment that is
Select an existing Java Runtime Environment		
The Java Runtime Environment specified below will be used for S4	AS software on this machine.	
		Browse
Help	< Back Next >	Cancel

You are ready to start installing, click Start:

SAS Deployment Wizard	
Deployment Summary Review the software selected for deployment. This is your last chance to go bac and make changes before writing to your system.	:k
Stage 1: System Requirements 1. System Requirements Wizard	<u>^</u>
Stage 2: Installation1. SAS/SECURE Java Component2. SAS/SECURE Java Component (Update)3. SAS Foundation4. Advanced Analytics Common Components (English Update)5. SAS/AF (DBCS Extensions Update)6. SAS/AF (English Update)7. SAS/ACCESS Interface to Aster nCluster (DBCS Extensions Update)	Ţ
<u>View Install Alert Notes</u>	a Requires user interaction
<u>H</u> elp < <u>B</u> ac	k <u>S</u> tart Cancel

The System Requirements Wizard will start, Click Next:



You may see other prompts before this window appears; follow the prompts to install any software listed. When you get to the end, you can click Finish:



SAS Installation will continue. Be patient - this will take some time -40 minutes to an hour (or more) depending on your PC and network connection. Wait for the next window to appear...

SAS Deployment Wizard	
Deployment in Progress	00
Stage 1: System Requirements	
Change 2: Jacket Hatting	
 Stage 2: Installation 1. SAS/SECURE Java Component 2. SAS/SECURE Java Component (Update) 3. SAS Foundation 	
 4. Advanced Analytics Common Components (English Update) 5. SAS/AF (DBCS Extensions Update) → Installing SAS Foundation 	_
	 Completed successfully Completed with errors Requires user interaction
Help	< <u>B</u> ack Stop Cancel

When SAS is done installing all the modules will be marked with a green checkmark. Click Next:

SAS Deployment Wizard	
Deployment Complete	
Stage 1: System Requirements	
🖉 🖕 1. System Requirements Wizard	
 Stage 2: Installation 1. SAS/SECURE Java Component 2. SAS/SECURE Java Component (Update) 3. SAS Foundation 4. Advanced Analytics Common Components (English Update) 5. SAS/AF (DBCS Extensions Update) 6. SAS/AF (English Update) 	-
	 Completed successfully Completed with errors Requires user interaction
Help	< <u>B</u> ack <u>N</u> ext > Cancel

You are finished – click the Finish button:

SAS Deployment Wizard			
Additional Resources			00
Below are links to additional resources for your deployment.			
SAS Customer Support Center			
http://support.sas.com			
SAS Install Center			
http://support.sas.com/documentation/installcenter/922/index.html			
SAS Technical Support			
http://support.sas.com/techsup			
SAS Software Downloads			
http://www.sas.com/apps/demosdownloads/setupintro.jsp			
			_
Print			
Help	z Back	Finish	Cancel
	< <u>b</u> ack	<u>ri<u>u</u>isn</u>	Cancel

Lastly, you should test your installation with a simple SAS program of your own or you can copy the file "lab9robust.sas" from this server folder: <u>\\cru20.ad.wsu.edu\SAS\SAS Server\SAS922-32bit\SASTestFile</u>. This file has self contained data set; you can run it as is. And, if you have any questions about these installation steps – please contact the Computing & Web Resources unit – email <u>cwr.support@wsu.edu</u>.