Performing a Custom Installation of SQL Server for CDR Dicom

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PURPOSE	The following information will assist you with performing a manual installation of SQL Server Express for CDR Dicom.
	To describe this procedure CDR Dicom 5.13, which is the latest version of CDR Dicom at the time this document was prepared, will be used with Microsoft's SQL Server Express 2014 (SP1).
REQUIREMENTS	 These instructions assume that you have the following: Access to, or a download of, SQL Server Express 2014 from Microsoft CDR DICOM 5.13 (either disk or download).
INSTALLATION	Perform the following steps to install SQL Server Express 2014 and configure it for CDR Dicom 5.13.
	If you have already downloaded SQL Server Express 2014, you can skip ahead to the section "Install SQL Server Express 2014" on page 3 for step 4.

Download SQL Server Express 2014

- Browse to the following website: https://www.microsoft.com/en-us/download/ details.aspx?id=46697.
- **2.** Click the Download button.

√licrosoft® S	QL Server® 2	2014 Service Pac	ck 1 (SP1) Express	
Select Language:	English	~	Download	
Microsoft® SQL Se system that deliver	rver® 2014 Express s a rich and reliable	s is a powerful and relia data store for lightwe	able free data manageme ight Web Sites and deskt	ent op
 Details 				
System Requireme	ints			
Install Instructions				
Additional Information	ation			

3. Select the following download option (*ENU\x64\SQLEXPRWT_x64_ENU.exe*) and click Next if using a 64-bit OS. If using a 32-bit OS click the (*ENU\x86\SQL-EXPTWT_x86_ENU.exe*) and click Next.

Curringer/Secondari/Tool/Europeas	1.1 G8	
ENU/yr64\SqlLocalD8.msi	43.2 MB	
ENU/x64/SQLManagementStudio_x64_ENU.exe	837.8 MB	
ENU/x86/SQLEXPR_x86_ENU.exe	265.1 MB	Total Size: 2.1 GB
ENU/x86/SqlLocalD8.msi	36.7 MB	
ENU/x86/5QLManagementStudio_x86_ENU.exe	815.2 MB	Total Size: 1.1 GB

Install SQL Server Express 2014

4. Once the download is completed, browse to the download location, right click the SQLEXPRWT_x64_ENU.exe file and choose "Run as Administrator".



5. You will be prompted to choose the directory for extracted files. Click OK to extract into the same directory where the EXE file is located.

Choose Directory For Extracted Files	Choose Directory For Extra	tted Files	×
express 2014 SP1 with Tools\SQLEXPRWT x64 ENU\	Choose Directory For Extra	ted Files Is\SQLEXPRWT x64_E	
Ok Cancel Browse	Ok C	ncel Browse	

6. The SQL Server Installation Center should launch automatically. Click "New SQL Server stand-alone installation or add features to an existing installation".



7. Check the "I Accept the License Terms" check box and click Next.

to install SQL Server 2014, j	ou must accept the Microsoft Software License Terms.	
icense Terms liobal Rules Acrosoft Update roduct Updates votall Setup Files votall Rules eature Selection eature Selection eature Conflowration Rules	MICROSOFT SOFTWARE LICENSE TERMS MICROSOFT SQL SERVER 2014 EXPRESS These license terms are an agreement between Microsoft Corporation (or based on where y live, one of this affiliates) and you. Please read them. They apply to the software named above which includes the media on which you received it, if any. The terms also apply to any Micros • updates, • supplements,	e, seft
nstallation Progress Complete	Copy I accept the license terms. Turn on Customer Experience Improvement Program ("CEIP") and Error Report to help improve quality, reliability and performance of Microsoft SQL Server 2014. See the Microsoft SQL Server 2014 Privacy Statement for more information. "Microsoft SQL Server 2014 also includes a Visual Studio component that will h. EIP settings turn of by default. If Visual Social is installed, this component that will not be CEP setting. "Visual Studio	Print e the

8. Check the "Use Microsoft Update to check for updates (recommended)" and click Next.

SQL Server 2014 Setup			_	n x	
Microsoft Update Use Microsoft Update to che	ck for important updates				
License Terms Global Rules Microsoft Update Product Updates Install Rules Feature Selection Feature Selection Feature Configuration Rules Installation Progress Complete	Microsoft Update offers security and other imp software, including SQL Server 2014. Updates a the Microsoft Update website. Use Microsoft Update to check for updates (<u>Microsoft Update FAQ</u> <u>Microsoft Update Privacy Statement</u>	recommended)	dows and other h matic Updates, o	dicrosoft r you can visit	
		< Back	Next >	Cancel	

9. You should see the following screen as the SQL Server Install Center checks for updates to MS SQL Express 2014 SP1 before the installation starts. Click on the Next button when it is available.

Install Setup Files If an update for SQL Server S License Terms Gobal Bules	Setup is found and specified to be included, th	he update will be installed.	
Microsoft Update	Task	Status	
Product Updates	Scan for product updates	Completed	
Install Setup Files	Download Setup files	Skipped	
Install Rules	Extract Setup files	Skipped	
Feature Selection	Install Setup files	Not started	
Feature Rules Feature Configuration Rules Installation Progress Complete			
		< Sack Next > Cancel	

10. The following boxes should be checked by default. If they are checked, click Next. If they are not checked, ensure the same boxes are checked that appear in the screenshot below and then click Next.

Select the Express features to in	nstall.				
icense Terms	Features:		Feature descriptio	n:	
Robal Rules Acrosoft Update Incluct Updates	Instance Features Database Engine Service Sol, Server Replication Shared Features	s M	The configuration instance feature of isolated from oth Server instances of	n and operation of of a SQL Server inst ser SQL Server inst can operate side-b	tance is inces. SQL
istall Setup Files	Client Tools Connectivit	y	Prerequisites for s	elected features:	
eature Selection eature Rules retance Configuration	Client Tools Backwards Client Tools SDK Management Tools - Ba Management Tools	Compatibility sic • Complete	Already installed Windows Pov Minisoft N	i werShell 2.0 FT Framework 3.5	• •
ever Configuration	SQL Client Connectivity	SDK	Disk Space Require	ements	
Natabase Engine Configuration eature Configuration Rules ratallation Progress	Redistributable Features		Drive C: 2535 MB available	required, 198953	MB
Complete	Select All Unselect All				
	Instance root directory:	C:/Program File	s/Microsoft SQL Server),		
	Shared feature directory:	C//Program File	s'Microsoft SQL Server).		
	Shared feature directory (vDf)	C/Program File	s (x86)/Microsoft SQL Sec	over)	

11. Make sure the named instance is selected and enter CDRDicom *(as shown)*. The Instance ID should be the same CDRDicom name. Click Next.

Instance Configuration Specify the name and instance ID for the instance of SQL Server. Instance ID becomes part of the installation path. License Turms Global Pules Microsoft Updates Instance Configuration Peature Selection Feature Selection Feature Selection Service Configuration Service Configuration Database Engine Configuration Feature Selection Features Instance Configuration Fues Instance Roopers Complete	SQL Server 2014 Setup					-	0	×
License Turns Globa Rules Moreard Update Product Update Product Update Install Rules Install Rules Install Rules Install Rules Instance ID: CDRDICOM Installed Instance: Solu Server directory: CLProgram File/Microsoft SQL Server/MSSQL12.CDRDICOM Installed Instances Server Configuration Deblase Engine Configuration Preduce Configuration Reture Configuration	Instance Configuration Specify the name and instance	n ID for the instance of S	QL Server. Instance	ID becomes part of t	he installation	path.		
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Feature Selection SQL Server directory: CIP rogram File/Microsoft SQL Server/MISSQL12.CDRDICOM Instance Configuration Installed instances Database Engine Configuration Installed instance ID Feature Configuration Progress Installed instance ID	Product Updates Install Setup Files Install Rules	Instance ID:						
Instance Name Instance ID Features Edition Version Peature Configuration Rules Instaliation Progress Complete	Feature Selection Feature Rules Instance Configuration	SQL Server directory: Installed instances	C:Program Filed	Microsoft SQL Server	MSSQL12.CD	RDICOM		
	Ortabase Engine Configuration Feature Configuration Pules Installation Progress Complete	Instance Nerre	Instance ID	Features	Edition	. W	rsion	

12. Ensure that the SQL Server Database Engine and the SQL Server Browser Startup Types are both set to "Automatic" and click Next.

Server Configuration Specify the service accounts and collation configuration. Licens Tems Goods Rules Mooset Update Mooset Update Notest Update Notest Update Notest Update Notest Update Notest Update Notest Reserve Configuration Server Configuration Notest Reserve Detabase Engine Server Configuration Server Configuration Installation Progress Complete	🚭 SQL Server 2014 Setup				- 0	×
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Product lipidates Install Finds Install Finds Society Files Install Finds Society Files Society File	License Terms Global Rules Microsoft Update	Service Accounts Callation Microsoft recommends that you use	a separate account for each SQL Server serv	ice.		
Inital Single Files Inital Rules Feature Section Feature Engine Configuration Database Engine Configuration Feature Engin	Product Updates	Service	Account Name	Password	Statup Type	
Install Ander Feature Ender Install Ander Server Configuration Server Configuration Feature Configuration Feat	Install Setup Files	SQL Server Database Engine	NT Service/MSSQLSCDRDICOM		Automatic	V
	Feature Rules Instance Configuration Server Configuration Database Brajane Configuration Feature Configuration Rules Installation Progress Complete					

13. By default "Windows Authentication Mode" is selected. We recommend using "Mixed Mode" *(red arrow),* which includes the SQL Server Authentication and Windows Authentication modes. Click Next.

Database Engine Confi	guration
Specify Database Engine author	nication security mode, administrators and data directories.
License Terms Global Rules Microsoft Update Product Update Install Setup Files Install Mules Feature Rules Instance Configuration Detabase Engine Configuration Detabase Engine Configuration Resture Configuration Rules Installation Progress Complete	Server Certiguration Data Directories User Instances FLESTREAM Specify the authentication mode and administrators for the Database Engine. Authentication Mode Mixed Mode (SQL Server authentication and Windows authentication) Specify the password for the SQL Server system administrator (sa) account. Enter password. Specify SQL Server administrators SQL Server administrators Contract/solo_SAD2/bis/min (admin) SQL Server administrators Contract/solo_SAD2/bis/min (admin) SQL Server administrators Add Current User Add

- When you select "Mixed Mode", the "Enter Password" box is enabled for entry and you will need to specify the SQL server system administration (sa) password.
- For consistency, CDRDicom50! *(case sensitive)* is typically recommended as the password, although if you have concerns about using a default password, or if your facility has special security requirements, you have the option to input any password as long as it satisfies Microsoft's SQL Server Strong Password Requirements: https://docs.microsoft.com/en-us/sql/relational-databases/security/strong-passwords.

PLEASE NOTE: If you change your password, please make a note of this information and keep it in a safe location. If a support technician calls to assist you in the future, this password may be required.

14. When the installation is completed, click Close. If the main SQL Server Installation Window appears, click the "X" in the top right corner to exit.

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Sources Viewing Product Documentation for SQL Server Viewing Product Documentation for SQL Server Only the components that you use to view and manage the documentation for SQL Server have been installed. By default, the Help Viewer component uses the online library. After installed SQL Server, you can use the Help Viewer component to download documentation to your local completer. For more information, see Use Microsoft Books Online for SQL Server (chitp.//go.microsoft.com/Mink/RLinkDE Summary log file has been aaved to the following location: Chorpage File Network SQL Server 120/Setue Bootstap(Log/20160510 111519)Summary. DiptatWID: 54:2.20160510 111519.set Sources Planning Installation Maintenance Tools Namewers SQL Server 2004 in a non-clustered environment of the source. Viewald from SQL Server 2005, SQL Server 2005, SQL Server 2006, SQL Server 2006, SQL Server 2007, SQL	Server Configuration	Details				
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Open SQL Management Studio 2014

15. Open SQL Management Studio 2014 (Windows 10: Start > All Apps > Microsoft SQL Server 2014 > SQL Server 2014 Management Studio) and login using either Windows Authentication or SQL Server Authentication. (*This will depend on how the SQL Server was installed on page 7 for step 13.*)

Microsoft	SQL Server 2014	
Server type:	Database Engine	,
Server name:	DIGITALW10-64X2/CORDICON	v
Authentication:	Windows Authentication	~
User name:	DIGITALW10-64X2\admin	Ŷ
Password:		
	Remember password	

16. Once you are logged in, expand Security, then Logins, and double click on NT AUTHORITY\SYSTEM. The Login Properties page for NT AUTHORITY\SYSTEM should open *(right side of window)*.

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Object Explorer * 3. X			
Connect * 1 1 1 = 7 1 3			
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	Connection		
	Server: DIGITALW1044K2-CDRDKCOM		
	Connection: DIGITALW1064X2*admin		
	57 Vex.connection.properties		
	Progress		
	O Peedy		
			. Count

17. In the Server Roles area the "public" checkbox should be selected automatically. Check the "sysadmin" box and click OK. Go to File > Disconnect and close SQL Management Studio.

PLEASE NOTE: If the NT AUTHORITY\SYSTEM is not listed *(on the left column)*, then the currently logged-in user does not, most likely, have administrator rights. In this case the office must login as administrator to make the required changes.



18. If the previous step is not completed and the CDR SERVER installation is started from the CDR 5.13 disk or download file, you may receive the error below. In that case, close the CDR SERVER installation, complete the previous step, and then restart the CDR SERVER installation. More information about Error 27553 Security Resolution is available, although for a different third party software. The corrective action steps, however, are the same as those that allow the CDR installation to complete without error.



Perform CDRServer Installation

19. After completing the previous steps, continue with the CDR SERVER installation. To start, click on the Install CDR Server button.



20. Select language and click OK.

Choose	Setup Langu	age		×
٢	Select the	e language for t	his installation from t	he choices below.
	English (On	DK.	Cancel	*

21. If prompted to install any prerequisites, click the Install button.

PLEASE NOTE: We encountered no issues or errors when installing the SQL Server 2008 R2 Client Driver x64 prerequisites when installing the CDR Dicom 5.13 CDR Server option on Windows 10 Pro x64.



22. Click Next.



23. Click Next after agreeing to the software license agreement.

By CONDICOWISEIVER - Instalion	ield Wizard	^
License Agreement		2.
Please read the following license	e agreement carefully.	
This is a legal agreement betwe Dental"). By selecting the "Yes bound by the terms of this Lice does not apply to you, if you d media package and/or computer accompanying items such as we LICENSE AGREEMENT 1. DEFINITION. The program(s referred to in this Agreement as	en you, the end-user, and Siror " button below, you are accept nise Agreement. In any event, to not agree to the terms of this r system to Sirona Dental, alon, nitten manuals, for a full refund () and other files on the accompt the "Software." These same p	a Dental, Inc. ("Sirona ^ ting and agreeing to be even if the foregoing Agreement, return this g with any anying media are tram(s) and files are
I accept the terms in the license	agreement	Print
O I do not accept the terms in the	license agreement	
InstallShield		V
	< Back Ne	ext > Cancel

24. Click Next after entering customer information ("User Name" and "Organization").

	 r your information.
	 <u>k</u>
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1	

25. Depending on the authentication option selected during the manual SQL installation, choose either Windows or Server Authentication *(which requires the password used during the manual SQL installation). (See page 7 for step 13.)* The "Database server that you are installing to" and the "Name of database catalog" should be identical to the selections in the screenshot below and should not need to be changed. Click Next.

19	ver - InstallShield Wizard	×
Database Server Select database s	erver and authentication method	E
Database server th	hat you are installing to:	
(local)/cDRDSCOM	4 ×	Browse
Ornect using: Windows auth Oserver auther	nentication credentials of current user	
Login ID:	sa	
Password:		
	catalog:	
Name of database		
Name of database CDRData		Browse
Name of database CDRData InstallShield	•	Browse

26. Click Next after selecting the appropriate image storage location. (*This location can always be changed later, if needed, through the CDR Data Administration utility.*)

Images Fo	ider	12.011		4	
Click Ne:	at to install to this folder, or di	ck Change to insta	I to a different fold		
0	Images should be stored in:				
	C: (mages)			Change	
InstallShield			ļ		
		/ Bark	Next 5	Carcal	

27. Click Next after choosing the setup type "Complete".

👹 CDR DICOM Server - InstallShield Wizard 🛛 🕹
Setup Type
Choose the setup type that best suits your needs.
Please select a setup type.
Complete
All program features will be installed. (Requires the most disk space.)
Ocustom
Choose which program features you want installed and where they will be installed. Recommended for advanced use
InstallShield
< Back Next > Cancel

28. Click Install.

Ready to Install the P	rogram	4
The wizard is ready to b	begin installation.	
Click Install to begin the	e installation.	
If you want to review o exit the wizard.	r change any of your installation settings, di	dk Back. Click Cancel to
InstallShield		-





Perform CDR Client Installation

30. Re-run the installer and choose the CDR CLIENT installation option.



31. Click Next.



32. Click Next after agreeing to the software license agreement.

License Agreement Please read the following lice	ense agreement carefully.	2
This is a legal agreement be Dental"). By selecting the " bound by the terms of this 1 does not apply to you, if y media package and 'or comp accompanying items such a LICENSE AGREEMENT 1. DEFINITION. The progri referred to in this Agreement © I accept the terms in the loc	tween you, the end-user, and Sii 'Yes'' button below, you are acc- icense Agreement. In any even ud on ot agree to the terms of til uter system to Sirona Dental, als s written manuals, for a full refus um(s) and other files on the acco it as the "Software." These sam- mes agreement	rona Dental, Inc. ("Sirona epting and agreeing to be nt, even if the foregoing his Agreement, return this ong with any nd. mpanying media are te purgram(s) and files are Brint
I go not accept the terms in	the license agreement	
InstallChield		•

33. Click Next after entering customer information ("User Name" and "Organization").

Please enter your information		2
User Name:		
admin		
Organization:		
	I	
tallShield	 —	Cancel

34. Click Next after choosing the setup type "Complete".

Setup Type	2
Choose the se	tup type that best suits your needs.
Please select	a setup type.
• Complete	a l
1	All program features will be installed. (Requires the most disk space.)
Custom	
15	Choose which program features you want installed and where they will be installed. Recommended for advanced users.
stallShield	↓
	< Back Next > Cance

35. Click Install.

Deads to Testall the Dears		
The wizard is ready to begin ins	tallation.	2
Click Install to begin the installa	ton.	
exit the wizard.		nan soeritti 19

36. Click Finish. At this point the CDR CLIENT installation is complete.



Verify SQL Server Connection

37. Open CDR Dicom for Windows from the desktop shortcut and verify connectivity to the SQL Server and Database by clicking "Test Connection". Also note that the "Enter the name of the Server" option on the server machine can be set to "(local)" *(if server is on the same PC).*

Configure Database Connection		×
Enter the name of the Server: (Click dropdown to search for servers.)	(local) ~	(
Connect with my Windows login crede	enāais	20
Show Advanced Options	Test Connection	
	OK Can	cel

If you are on a client-only PC, however, you will need to enter or select your server PC name from the drop-down menu.

Configure Database Connection	×
Enter the name of the Server: (Click dropdown to search for servers.)	W10-6402
Connect with my Windows login credentials	
Show Advanced Options	Test Connection
	OK Cancel

38. Verify that the Data Connection is good. If so, click "OK" and CDR Dicom for Windows 5.13 should open and be ready for use.

10 CDF	CDR Database Library	×	Test Connection	~
4	Data connection is good.			e : to
	ОК			

Perform Troubleshooting if the "Test Connection" Fails

39. Ensure that both the SQL SERVER (CDRDICOM) service and COMPUTER BROWSER services are running. These services can be checked in various ways but the two most common ones are as follows.

Windows Services:

Any OS: Click Start > Run and type in "services.msc" (*without quotes*). Ensure that SQL Server (CDRDICOM) and Computer Browser services are running.

On Windows 7: Right-click on the Computer icon, click Manage, click Services and Applications in the left panel, and click Services. Ensure that SQL Server (CDRDI-COM) and Computer Browser services are running.

On Windows 8, 8.1, and 10: Right-click on the This PC icon, click Manage, click Services and Applications in the left panel, and click Services. Ensure that SQL Server (CDRDICOM) and Computer Browser services are running.

SQL Server Configuration Manager:

On Windows 7: Click the Start button > All Programs > Microsoft SQL Server 2014> Configuration Tools > SQL Server 2014 Configuration Manager. Click the SQL Server Services option in the left panel and ensure that the SQL Server (CDRDICOM) and SQL Server Browser services are running in the right panel.

On Windows 8: Drag mouse to the bottom left corner of screen and when the tile area is displayed, click on it. Click the down arrow to get to Apps, scroll over to Microsoft SQL Server 2014, and click the SQL Server 2014 Configuration Manager option. Click the SQL Server Services option in the left panel and ensure that the SQL Server (CDRDICOM) and SQL Server Browser services are running in the right panel.

On Windows 8.1: Click the Start button on the bottom left of the screen, click the down arrow to get to Apps, scroll over to Microsoft SQL Server 2014, and click the SQL Server 2014 Configuration Manager option. Click the SQL Server Services option in the left panel and ensure that the SQL Server (CDRDICOM) and SQL Server Browser services are running in the right panel.

On Windows 10: Click the Start button > All Apps > Microsoft SQL Server 2014 > SQL Server 2014 Configuration Manager. Click the SQL Server Services option in the left panel and ensure that the SQL Server (CDRDICOM) and SQL Server Browser services are running in the right panel.

40. Ensure NAMED PIPES and TCP/IP are enabled in SQL Server Configuration Manager.



41. If the connection fails in the Configure Database Connection window, click "Show Advanced Options" and under the "Network Protocol" drop-down menu, choose "Named Pipes" and click Test Connection again.

Enter the name of the Serve (Click dropdown to search for	er: or servers.) 1157W52-0T	٣
Connect with my Window	vs login credentials	
Show Advanced Options		Test Connection
Advanced		
SQL Driver:	SQL Server Native Client 10.0	•
SQL Server Instance:	CORDICOM	
Database name:	CDRData	
Network Protocols	Named Pices	•

42. For installations that selected the "Mixed Mode" authentication option during the manual installation of SQL Server 2014, you can try unchecking the "Connect with my Windows login credentials" box and then enter the logon info for the SQL Server "sa" account. If the instructions on page 7 for step 13. were followed per our recommendation, the "sa" password should be CDRDicom50! and then click Test Connection again.

Enter the name of (Click dropdown to	the Server: search for	servers.) 1157W52-	от	٠
Connect with m	vy Windows	login credentials		
Username:	50			10
Password:	•••••	•••••		- 4
Show Advanced	d Options		Test Com	nection
Advanced				
SQL Driver:		SQL Server Native (Client 10.0	٠
SQL Server Inst	ance:	CDRDICOM		
Database name:	:	CDRData		
Network Protoco	pla	Named Pipes		•