

Chapter 2

Installation

This chapter describes:

- System requirements
- Installation requirements
- How to install NDSR, non-networked
- How to register NDSR
- How to start NDSR
- How to transfer NDSR registration
- How to unregister NDSR
- How to uninstall NDSR
- How to install NDSR, networked
- How to install additional setups

System Requirements

NDSR 2019 is supported on Microsoft Windows 7, Windows 8, and Windows 10. NDSR adds the following to the system requirements that are published by Microsoft for these Windows operating systems:

- Disk space for Program Files: 70 MB.
- Disk space for database: Up to 1 GB for the database.
- Disk space for user data per typical project:
 - Backup: 0.5MB
 - Output: 2MB
 - Report: 0.3MB
- Physical Memory to process a typical project:
 - Idle: 70MB
 - Restore: 50MB
 - Output: 300MB
- CPU:
 - Quick generation of output files: 2.66 GHz.
 - Multitasking during output: multi-core processor.
- Software to examine output files:
 - Extract: zip/unzip (e.g., Windows compressed folders).
 - Browse: spreadsheet.
 - Analyze: statistical-analysis.

Installation Requirements

Permissions

Depending on your organization's security policy, NDSR 2019 is normally installed and uninstalled only by a member of the Administrators group.

Every NDSR user must be a member of the Users group or another group that has the following permissions for NDSR *User Data*:

- Modify.
- Read & Execute.

- List Folder Contents.
- Read.
- Write.

An NDSR user must not be a member of any group (including Everybody) that lacks any of these permissions.

Default locations of NDSR *User Data*:

- Windows 7, Windows 8, and Windows 10: NDSR *Public Documents* folder.

The files of a network database service are not NDSR *User Data*, and should not be accessible to Users (only to Administrators and the SYSTEM).

Previous NDSR Registrations

Because NDSR is a password-protected program, every copy and version must be registered (although one registration process can cover several versions--see "*Registering NDSR*"). Because a license registration is shared by several versions of NDSR, it is usually simplest to keep all of your license registrations in the same place. For a networked license, this means an additional network share (or subfolder) on the server. For a non-networked license, it means installing NDSR 2019 on the same computer where you have installed previous versions of NDSR.

Windows Public Documents Folder

For simplicity, this NDSR User Manual refers to Windows 7, Windows 8, and Windows 10 as Windows.

NDSR *User Data* includes backup files, output files, output-file headers, configuration files, header-export files, and reports. NDSR *User Data* is installed in the *Public Documents* folder by default (C:\Users\Public\Public Documents\NCC\).

It is important to have all required permissions on NDSR *User Data* folders otherwise there might be problems with Windows File Virtualization.

After NDSR has been installed, the NCC *Public Documents* folder may be revealed and its required permissions verified or set as described below.

Verify permissions:

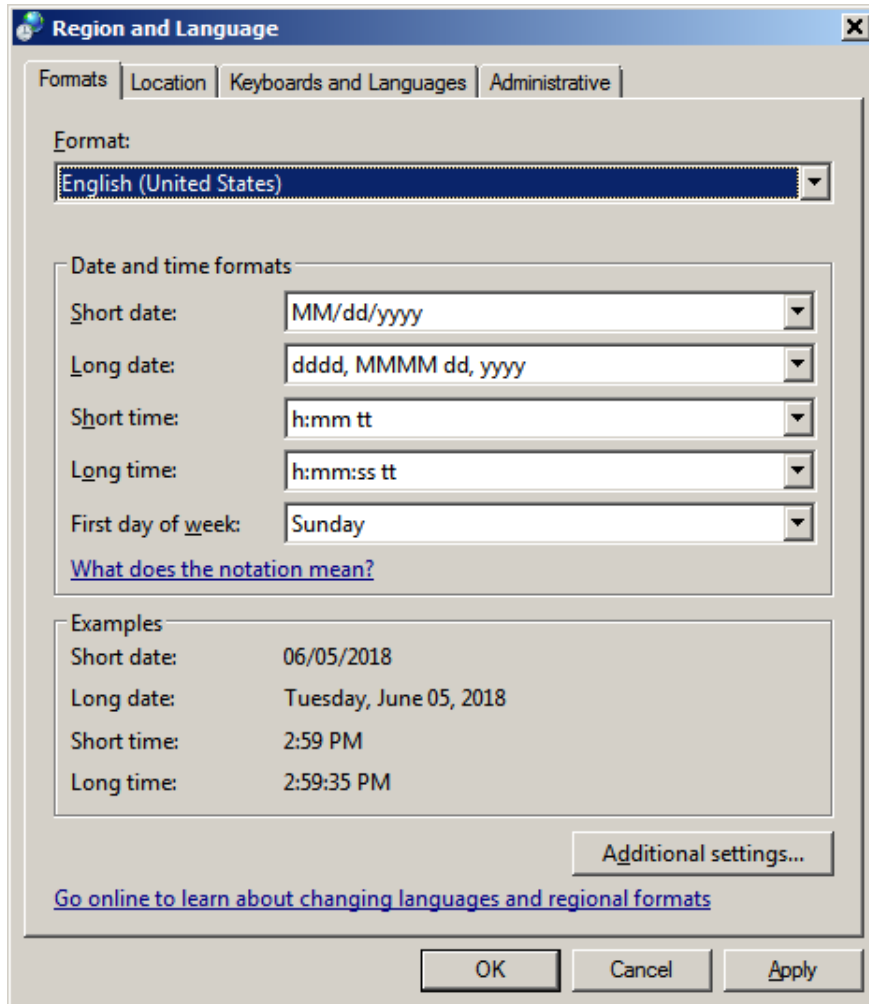
1. Open **Windows Explorer** and locate the NCC *Public documents* folder
C:\Users\Public\Public Documents\NCC\
2. Right-click on this folder.
3. Select **Properties** from the popup menu.
4. On the **Security** tab (and its advanced windows if necessary), verify that the Administrators group has ownership and Full Control of this folder and all of its child objects.
5. Verify that the SYSTEM account has full control (of this folder and all of its child objects).
6. Verify that the Users group has the following permissions (in this folder and all of its child objects): Modify, Read & Execute, List Folder Contents, Read, and Write.

7. Verify that no user or group in which an NDSR user or administrator is a member (including Everyone) lacks any of the required permissions.

Use of NDSR Outside of the United States

When using NDSR outside of the United States, the English (United States) computer settings are required on all computers to ensure optimal functionality.

To check the settings, navigate to the **Control Panel** → **Clock, Language, and Region**. Under **Region and Language**, click **Change the date, time, or number format**. Then select **English (United States)** from the **Format** drop down menu. Click **Apply** then **OK**.



Installing NDSR, non-networked (Stand-alone)

The NDSR installation has been programmed so that on Windows 7, Windows 8, and Windows 10, you need to follow these prompts and then complete several steps manually (see "*Windows Public Documents Folder*").

NCC User Support (ndsrhel@umn.edu) will send an email containing a link to download the NDSR 2019 installation. Selecting the link will direct you to **Google Drive**. No login is required to access this download.

Hover the mouse at the top of the page and an options toolbar will drop down. Select the **DOWNLOAD ICON** [↓]. **Google Drive** will warn that it cannot scan for viruses due to file size, select the **DOWNLOAD ANYWAY** button to continue.

Open the **NDSR 2019.zip** folder. Right click on the zip file select **EXTRACT ALL**, **BROWSE** to a location to store the files and select **EXTRACT**.

1. Login as a member of the Administrator group. Close any open applications.
2. **BROWSE** to the file location open the **setup.exe** file to start the installation process.
3. Continue to Step 4 on the next page.

NOTE: It is recommended that the NDSR 2019 download be stored to a location that can be accessed for future installations, if necessary.

Files can be stored in multiple locations (e.g., C:\drive, network drive, USB flash drive or CD).

The following steps describe how to install NDSR using a CD or DVD drive.

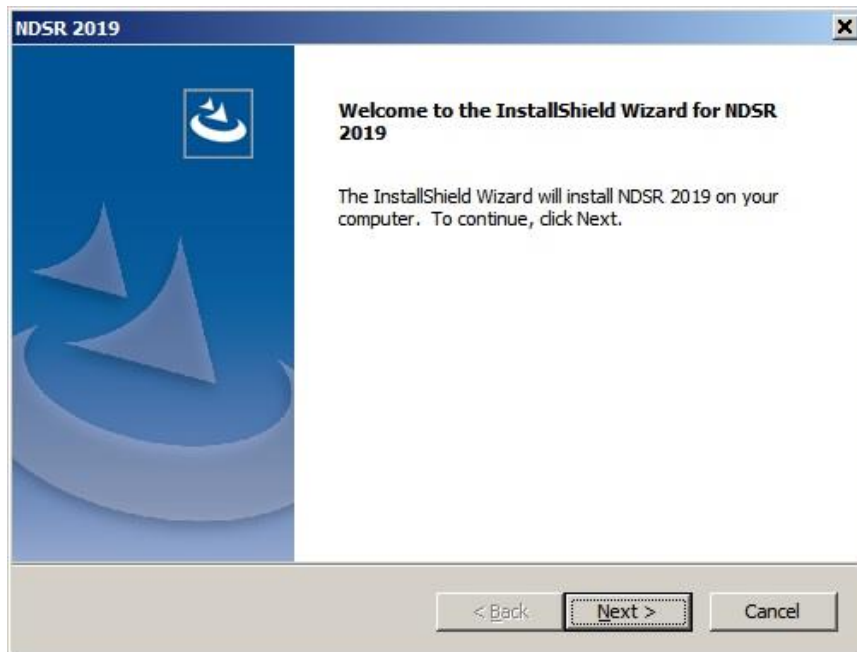
1. Login as a member of the Administrators group. Close any open applications.
2. Put the CD into the CD or DVD drive.
3. If the installation process does not begin automatically, start it as follows:
 - a. Select **Start**→**Run**, type **D:/setup** (where **D:** is the CD or DVD drive) and select **OK** OR
 - b. In **My Computer**, go to the CD or DVD drive and open the file **setup.exe**.

NOTE: To find your CD or DVD drive letter, select **Start**→**Run** and select the **BROWSE** button or go to **My Computer** or **Windows Explorer**.

The **InstallShield Wizard** window will open



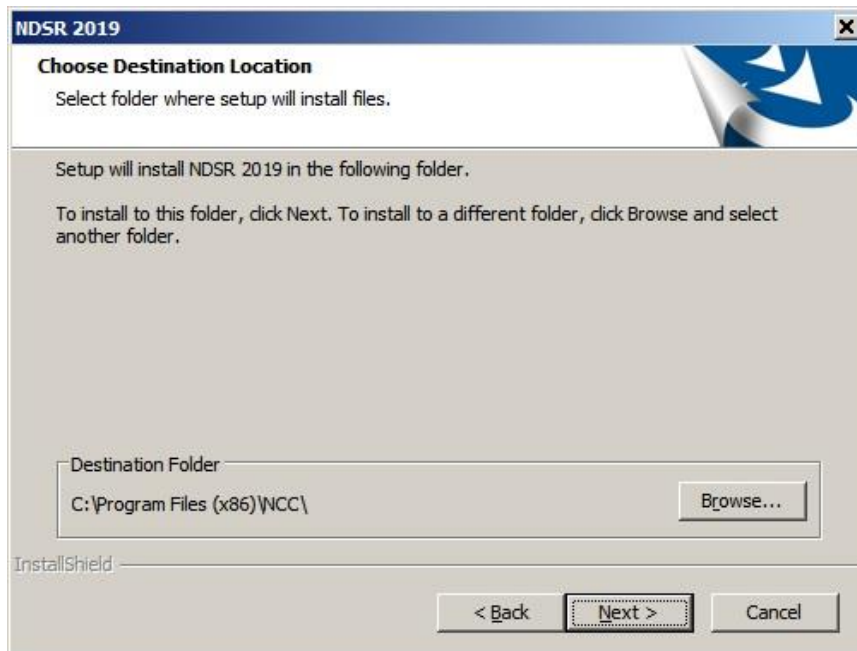
4. When the **Welcome** window opens, select the **NEXT>** button.



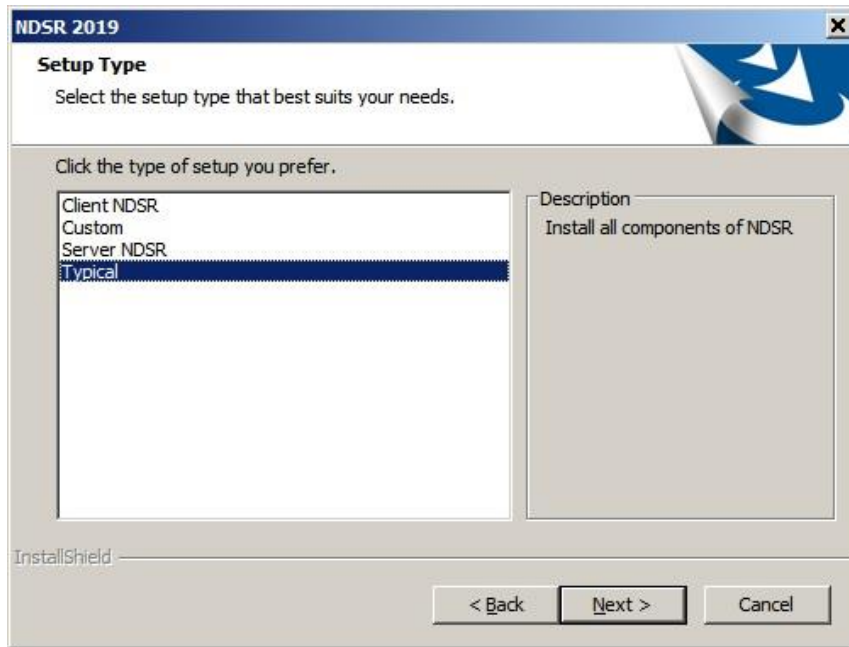
5. When the **License Agreement** window opens, select the radio button **I ACCEPT THE TERMS OF THE LICENSE AGREEMENT**, and select the **NEXT>** button.



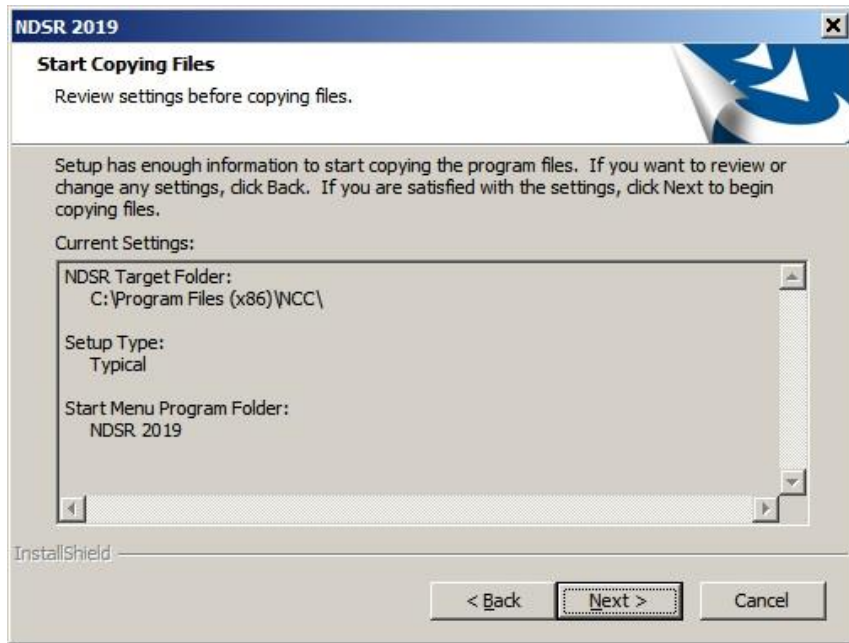
6. When the **Choose Destination Location** window opens, accept or change the destination folder and select the **NEXT>** button. The default destination folder is **C:\Program Files\NCC** or **C:\Program Files(x86)\NCC** for 64-bit systems.



7. When the **Setup Type** window opens, select **Typical** setup and select the **NEXT>** button.



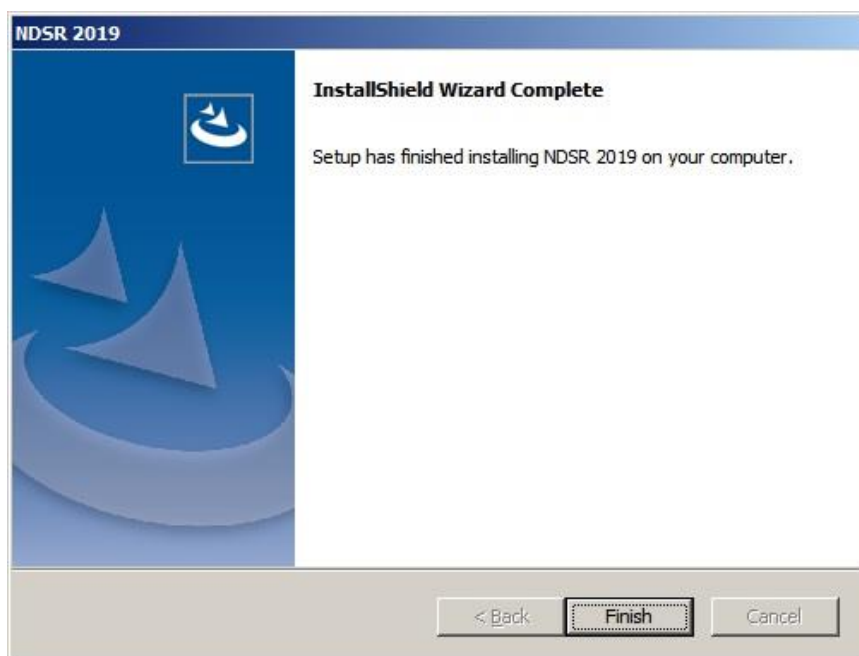
8. When the **Start Copying Files** window opens, select the **NEXT>** button.



The **Setup Status** window is displayed while the NDSR program files are copied from the installation CD to your computer's hard drive.

9. When the **InstallShield Wizard Complete** window opens, select **FINISH**.

This completes the installation process.



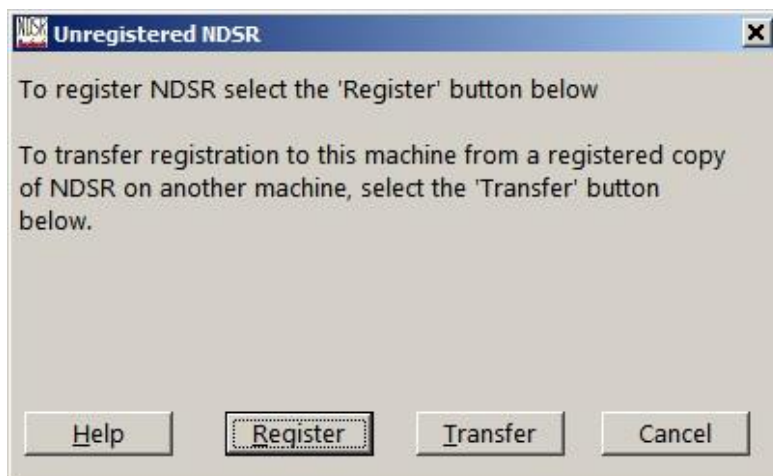
After NDSR is installed, it must be registered (please read "*Previous NDSR Registrations*" and "*Registering NDSR*" before installing).

Registering NDSR

After NDSR is installed, each license must be registered by obtaining a computer-specific password from NCC. If there is more than one non-networked license, this process is repeated for each one. If there is a single networked license, this process is done only once.

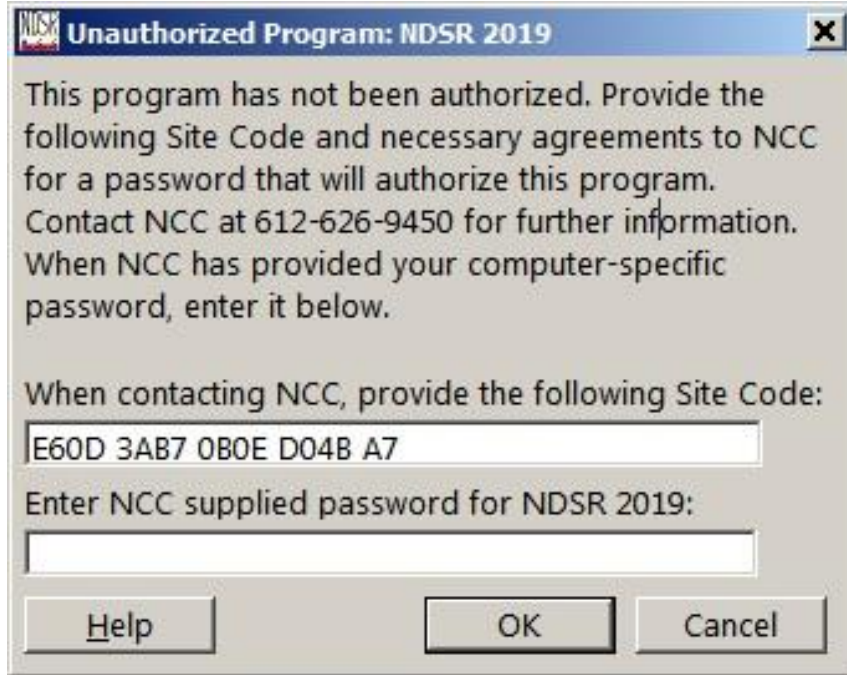
The following steps describe how to register NDSR.

1. Select **Start**→**Programs**→**NDSR 2019**→**NDSR 2019**. When the **Unregistered NDSR** window opens, select the **REGISTER** button.



NOTE: If any message windows open before the **Unregistered NDSR** window, report them to NCC.

2. When the **Unauthorized Program: NDSR 2019** window opens, call NCC at 612-626-9450 and provide the **Site Code**. NCC will provide you with the **Password**.

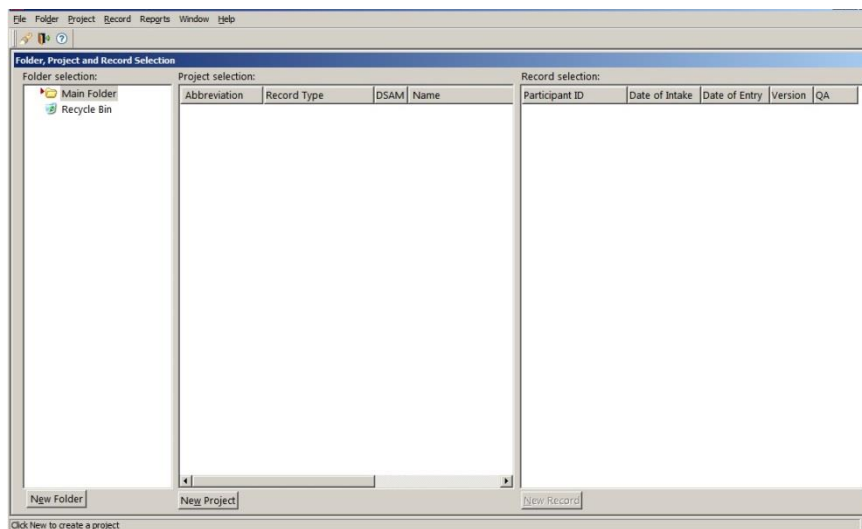


3. Enter the NCC supplied password and select **OK**. NDSR will open.

Starting NDSR

The following steps describe how to start NDSR.

1. Select **Start**→**Programs**→**NDSR 2019**→**NDSR 2019**.
2. When the **Nutrition Data System for Research** logo window opens, wait a few moments for the **Folder, Project and Record Selection** window to open.



3. Create a new project according to “*Appendix 4, NDSR Tutorials*” or “*Chapter 3, Managing NDSR Projects*”.

NOTE: Projects and records created in one registration type (e.g., Demonstration) cannot be moved to a different registration type (e.g., Research).

Transferring NDSR Registration

You may move a registered copy of NDSR from one computer to another (or move the license folder from one drive or folder to another on the same computer) by transferring the NDSR registration.

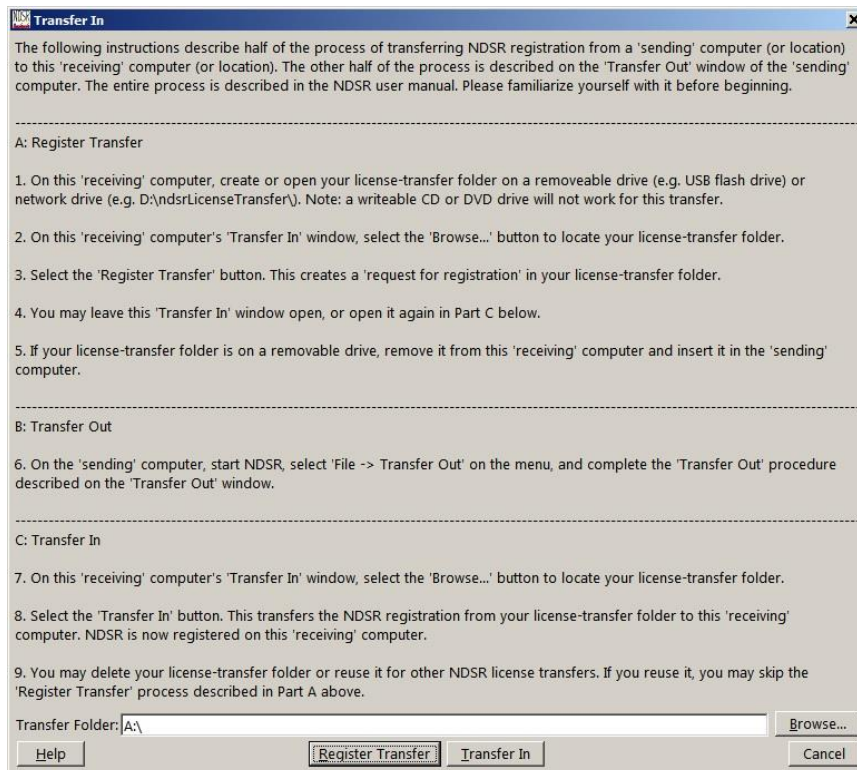
The following steps describe how to transfer NDSR registration from the *sending* computer (e.g., the computer from which NDSR will be removed) to the *receiving* computer (e.g., the computer to which NDSR will be moved).

1. On the *receiving* computer, insert a removable drive (e.g., a USB flash drive) or open a network drive and create your temporary, empty *license-transfer folder* on it. The NDSR registration will be transferred through this folder in a later step.

NOTE: A CD or DVD drive will not work for this transfer, even if the recording software is compatible on the two computers.

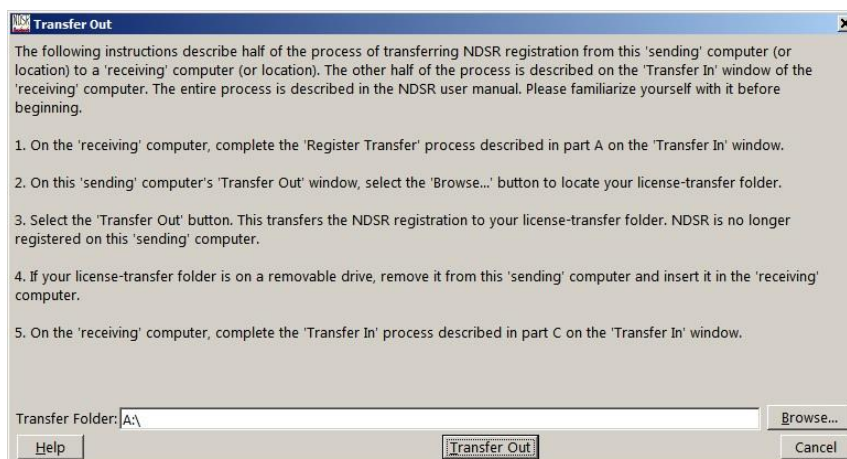
2. On the *receiving* computer, install and start NDSR (see "*Installing NDSR, non-networked*" and "*Starting NDSR*").
3. When the **Unregistered NDSR** window opens, select the **TRANSFER** button.
4. When the **Transfer In** window opens, specify the license-transfer folder you created in Step 1 in the **Transfer Folder:** field.

Select the **REGISTER TRANSFER** button. This creates a "request for registration" in your license-transfer folder. You may leave this window open until you return to it in a later step.



5. From the *receiving* computer, remove the USB flash drive (if that is the location of your license-transfer folder). Into the *sending* computer, insert the USB flash drive (or otherwise open your license-transfer folder).
6. On the *sending* computer, Start NDSR. When the **Folder, Project and Record Selection** window opens, select **File**→**Transfer Out** on the menu.
7. When the **Transfer Out** window opens, specify your license-transfer folder in the **Transfer Folder:** field.

Select the **TRANSFER OUT** button. This transfers the NDSR registration from the *sending* computer to your license-transfer folder. NDSR is no longer registered on the *sending* computer.



8. From the *sending* computer, remove the USB flash drive (if that is the location of your license-transfer folder). Into the *receiving* computer, insert the USB flash drive (or otherwise open your license-transfer folder).
9. On the *receiving* computer, go to the **Transfer In** window.

NOTE: If you did not leave this window open in the earlier step, you may open it again by starting the NDSR program. When the **Unregistered NDSR** window opens, select the **TRANSFER** button. When the **Transfer In** window opens, specify your license-transfer folder in the **Transfer Folder:** field.

Select the **TRANSFER IN** button. This transfers the NDSR registration from your license-transfer folder to the *receiving* computer. NDSR is now registered on the *receiving* computer, and the transfer is complete.

You may delete your license-transfer folder or save it for transferring another license.

Unregistering NDSR

You may unregister NDSR in order to change from one license configuration to another (e.g., to consolidate a number of non-networked licenses into a single networked license, see "*Installing NDSR, Networked License*"). For each license that is unregistered, a confirmation code must be sent to NCC so that NCC can provide a replacement license.

NOTE: Do not uninstall NDSR until you have unregistered it. Without a confirmation code, you will not be able to re-register NDSR.

Do not uninstall NDSR until you have backed up your projects (see backup and restore in "*Chapter 9, NDSR Utilities*").

The following steps describe how to unregister NDSR.

1. Start NDSR.
2. When the **Folder, Project and Record Selection** window opens, press **CTRL + ALT + SHIFT + K** on the keyboard, all at the same time.
3. When the **Confirm Unregister** window opens, select **OK**.



4. When the **Program Unregistered** window opens, carefully record the confirmation code. Select **OK** to unregister NDSR on this computer.



Send this confirmation code to NCC by email at ndsrbhelp@umn.edu or by phone at 612-626-9450. NCC will then give you a password to re-register NDSR on another computer.

5. Uninstall NDSR (see “*Uninstalling NDSR*”).

Uninstalling NDSR

You may uninstall NDSR one version at a time. This allows you to move NDSR to a new computer, switch to a newer version, or end a study.

NDSR may be uninstalled only by a member of the Administrators group.

The following steps describe how to uninstall NDSR and optionally delete the NDSR folders.

1. Backup your projects (see backup and restore in “*Chapter 9, NDSR Utilities*”).

NOTE: When uninstalling protect your data by copying the backed up files to a secondary location (e.g., C:\drive, network drive, USB flash drive or CD).

2. If you are continuing with NDSR, unregister or transfer the license (see “*Unregistering NDSR*” or “*Transferring NDSR Registration*”).
3. Select **Start**→**Settings**→**Control Panel**.
4. When the **Control Panel** window opens, select **ADD OR REMOVE PROGRAMS**.
5. Look for **NDSR 2019** in the list of programs, and highlight it. Select the **CHANGE/REMOVE** button.
6. When the **Welcome** window opens, select **REMOVE** and then the **NEXT>** button.
7. When the **Confirm Uninstall** window opens, select **OK**. NDSR is uninstalled.
8. When the **Maintenance Complete** window opens, select **FINISH**.

9. After backing up your data and uninstalling NDSR, you may want to delete the NDSR folders—including any database, backup, export, output or report files that remain in them. For your protection, these user files are not deleted when NDSR is uninstalled—they may only be deleted manually. On Windows 7, Windows 8, and Windows 10, the default locations of the user files and program files are C:\Users\Public\Public Documents\NCC\NDSR 2019\, C:\ProgramData\NCC\NDSR 2019\ and C:\Program Files\NCC\NDSR 2019\ or C:\Program Files (x86)\NCC\NDSR 2019 on 64-bit systems.

If NDSR will not be reinstalled, its Crypkey License service may be uninstalled by opening a Windows command-line window, changing directories to the NDSR license folder, and executing the command "setupec /u".

Installing NDSR, Networked

NDSR can be networked so that users can share databases and/or a license. Potential advantages include centralized system administration and information sharing.

Networking requires an Amendment to your End User Software License Agreement with NCC, plus additional software installations as described below.

NCC supports NDSR networking on Windows Server operating systems in consultation with your local system administrators.

Note on required technical skills: networking the NDSR license and/or database requires technical knowledge beyond what is required for a "typical" NDSR installation. To network the license, it is necessary to set up a shared network folder (or service) on the server, install and register the license there, grant security permissions to NDSR users, and on each client computer map a drive (or refer to the service) and edit the NDSR configuration file. To network the database, it is necessary to configure and run a network database service, make firewall exceptions, modify environment variables, and on each client configure network connections, edit ODBC data sources, and edit the NDSR configuration file.

Note on terminology: the terms "*server*" and "*service*" are often interchanged, so let's define them briefly: a *server* is anything that provides a service (hardware, software, or human; directly or indirectly), and a *service* is something that is requested by a client and delivered to the client by the server. For example, a server machine for NDSR runs server software including the Crypkey license server and/or the SAP SQL Anywhere personal or network database server. Another server machine will commonly be a file server. Each of these software servers operates with a number of components and processes including: 1) a server that provides a service and 2) a service that is requested and received by a client. The focus of a system-oriented person might be the server, and the only thing a user-oriented person might think about is the service; but both are correct. This NDSR User Manual needs to describe documentation from both viewpoints, and so will use the term "server" where the vendor uses it, and the term "service" where the NDSR installer works with it on the list of Windows services.

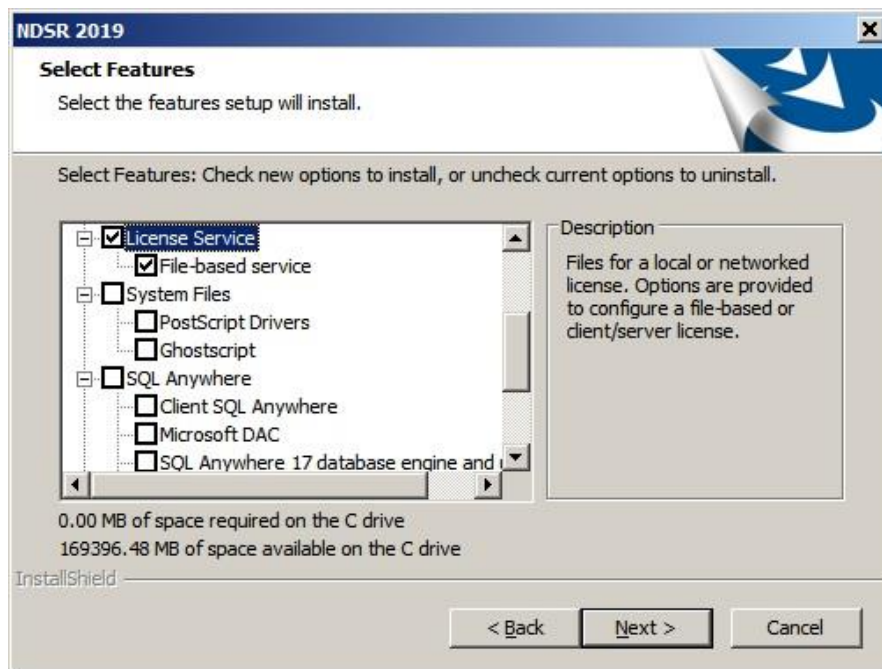
Installing NDSR, Networked License

A networked license is installed on a server's shared network folder and referred to by each client computer through that client's NDSR configuration file.

To change the NDSR registration status from a non-networked license to a networked license see "*Unregistering NDSR*".

The following steps describe how to network the NDSR license using the file-based service.

1. On the server machine, install NDSR as described in "*Installing NDSR, non-networked*"). On the **Setup Type** window, choose one of the following options:
 - a. To install the NDSR application along with the license folder and license service, run the **Typical** installation. OR
 - b. To install only the license folder and license service, run the **Custom** installation. On the **Select Features** window under the category "License Service", select only the option "File-based service".



2. On the server machine, after installing the license folder but before registering the license, optionally move the license folder out of NCC ProgramData to a location that is specialized for shared network folders. The license folder's default location is `C:\ProgramData\NCC\License_4` on Windows 7, Windows 8, and Windows 10.

On the server machine, share the license folder with NDSR users. Every NDSR user must have the following permissions for both the share and the folder (and of course the folder's contents): Modify, Read & Execute, List Folder Contents, Read, and Write. This involves two sets of permissions: one for the share and the other for the folder. Start NDSR and register the license (as described in "*Registering NDSR*"). This will register NDSR on all of the client computers.

3. On each client machine, complete the following steps:
 - a. On each client machine, run the **Typical** NDSR installation as described in "*Installing NDSR, non-networked*".
 - b. On each client machine, map a network drive to the shared license folder, or determine how to address the server machine and its shared license folder using the Windows Universal Naming Convention (UNC, e.g., \\myServerName\myShareName)
 - c. On each client machine, open the NDSR configuration file `ndsr.ini` and find the license path on the line with the default path of `License=C:\ProgramData\NCC\License_4` on Windows 7, Windows 8, and Windows 10.

The default location of the NDSR configuration file `ndsr.ini` is `C:\ProgramData\NCC\NDSR 2019` on Windows 7, Windows 8, and Windows 10.

- d. In the NDSR configuration file that was opened in the previous step, change the license path so that it addresses the shared license folder.

The license path may be specified in any of the following ways (UNC or mapped network drive):

- \\myServerIPAddress\myShare\myLicenseFolder
- \\myServerName\myShare\myLicenseFolder
- myMappedDriveLetter:\myLicenseFolder

NOTE: Unregistering NDSR on any client computer will unregister NDSR on all of the client computers.

Installing NDSR, Networked License and Database

Installing NDSR with a networked database and license is done in three parts.

- Part 1: NDSR Server installation.
- Part 2: SAP SQL Anywhere installation.
- Part 3: NDSR Client installations.

Part 1: NDSR Server Installation

To network the NDSR license, run the Server installation of NDSR (or the Custom installation of the License Service) as described in "*Installing NDSR, Networked License*".

To network the NDSR database, run the Server installation of NDSR or otherwise copy an installed NDSR database file to the database server (Do not grant any user access to the database folder).

Part 2: SAP SQL Anywhere Installation

The following steps describe how to install SAP SQL Anywhere and configure it to run a network database service.

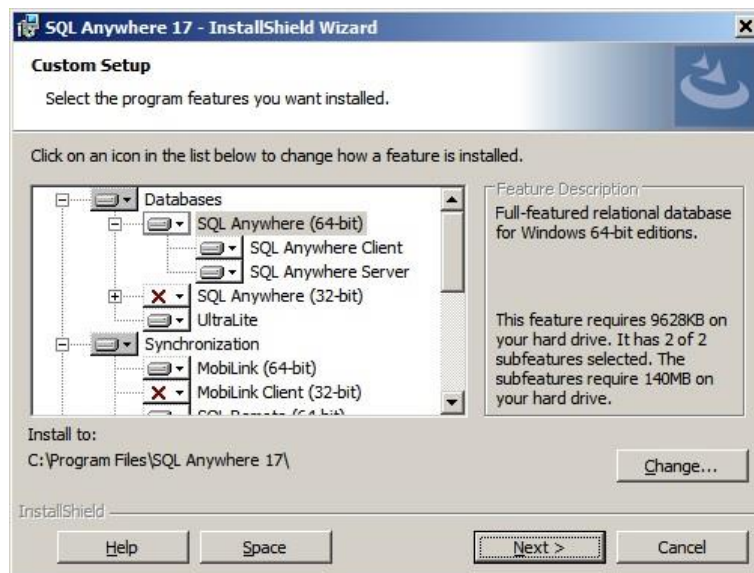
1. NDSR databases are networked by the SAP SQL Anywhere software, which is provided and licensed by SAP (not by NCC). A license for one network seat is required for each concurrent NDSR user.

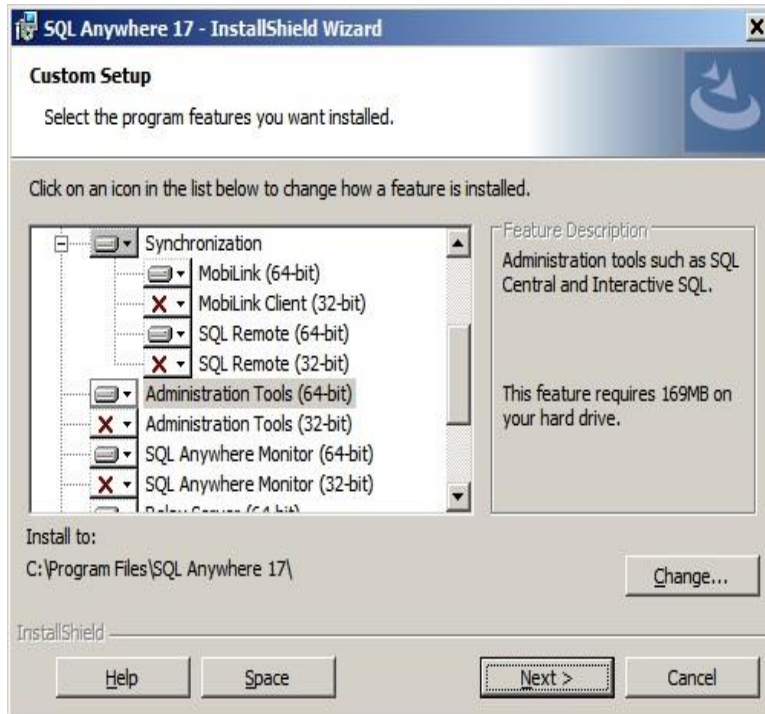
Obtain the necessary number of licenses and download instructions for SAP SQL Anywhere 17 from your vendor.

2. Install SQL Anywhere.

When choosing installation options, keep in mind that the UltraLite, MobiLink and SQL Remote components are not used by NDSR. If you do not require them for other applications, do not install them.

The following two screenshots show the recommended installation options (the first showing the top and the second the bottom of the option list).



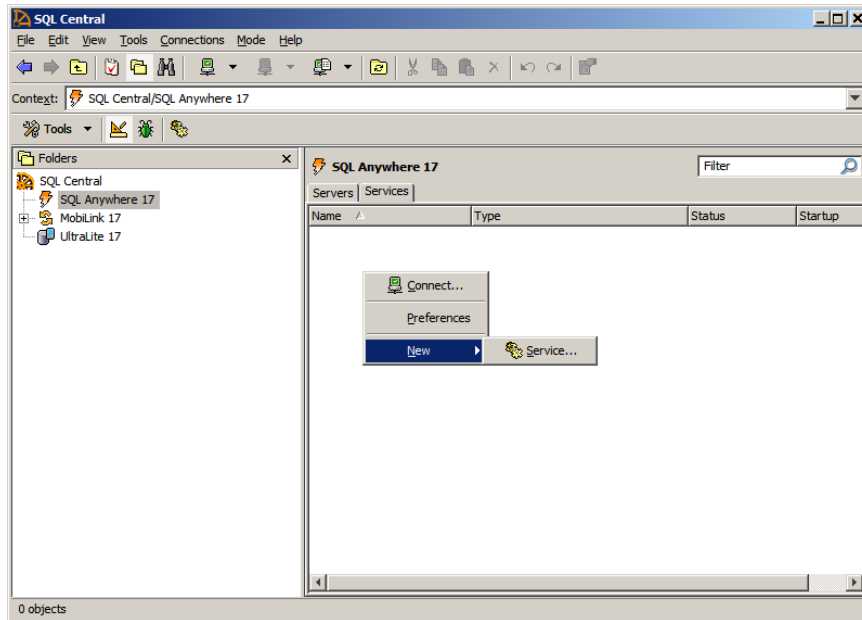


Complete the installation by restarting Windows on the server.

3. Optionally, update SQL Anywhere to the current release for your version. Check with your vendor for instructions on downloading and installing updates.

NOTE: This step is not required. The version that is tested by NCC is 17.4.2053. You may need to apply the latest patches for security or performance reasons.

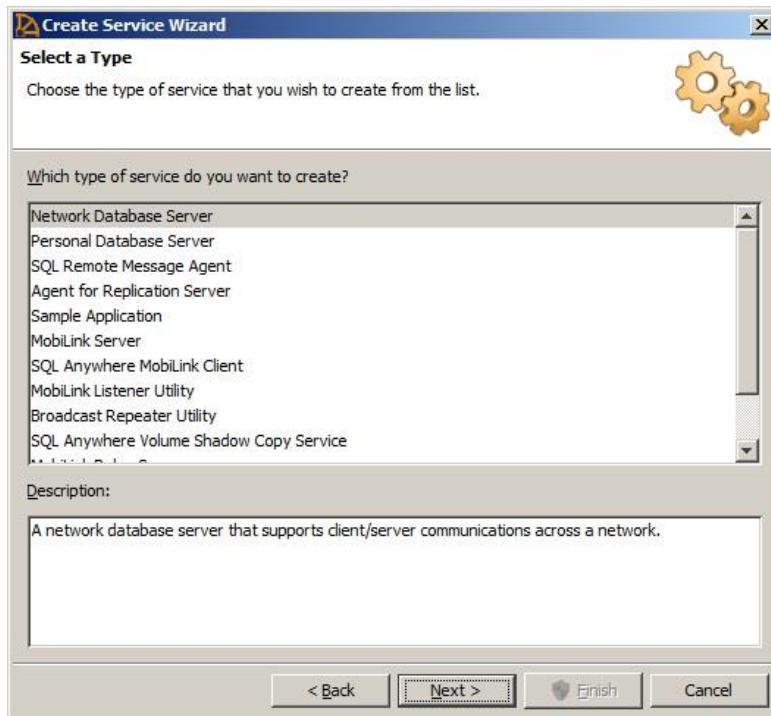
4. To improve server efficiency, optionally remove the paths of earlier SQL Anywhere (or Adaptive Server Anywhere as it was formerly known) installations from the environment variable "PATH".
5. To further improve server performance, optionally create the environment variable "SATMP" to identify the folder in which the SQL Anywhere network database service will write its temporary files. This folder is best located on a hard drive with good capacity and speed.
6. Open Sybase Central by selecting **Start**→**Programs**→**SQL Anywhere 17**→**Administration Tools**→**Sybase Central**. When the **Sybase Central** window opens, select **View**→**Folders**, and select the item "SQL Anywhere 17" in the left pane.
7. Select the **Services** tab on the right pane, right-click in the empty area of the pane, and select **File**→**New**→**Service** from the pop-up menu.



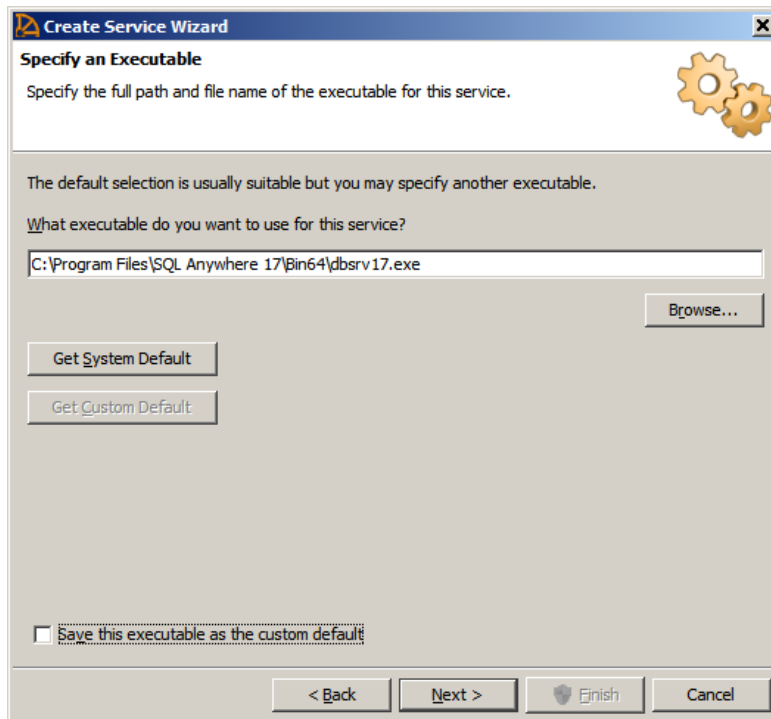
8. When the first **Create Service Wizard** window opens, name the new service **ndsrdbserv** and select the **NEXT>** button to continue.



9. On the next **Create Service Wizard** window, select **Network Database Server** and select the **NEXT>** button to continue.



10. On the next **Create Service Wizard** window, confirm that the executable file is `C:\Program Files\SQL Anywhere 17\bin32\dbsrv17.exe` on a 32-bit system or `C:\Program Files\SQL Anywhere 17\bin64\dbsrv17.exe` on a 64-bit system and select the **NEXT>** button to continue.



11. On the next **Create Service Wizard** window, enter parameters like the following to name the service and each database it will run.

For example, to network one NDSR 2019 database, enter parameters like the following (where “path” stands for the network database folder on your server).

```
-n ndsrdbserv  
"path\ndsr 2019\database\ndsrdb.db" -n ndsrdb2019
```

The default parameters on Windows 7, Windows 8, and Windows 10 are as follows:

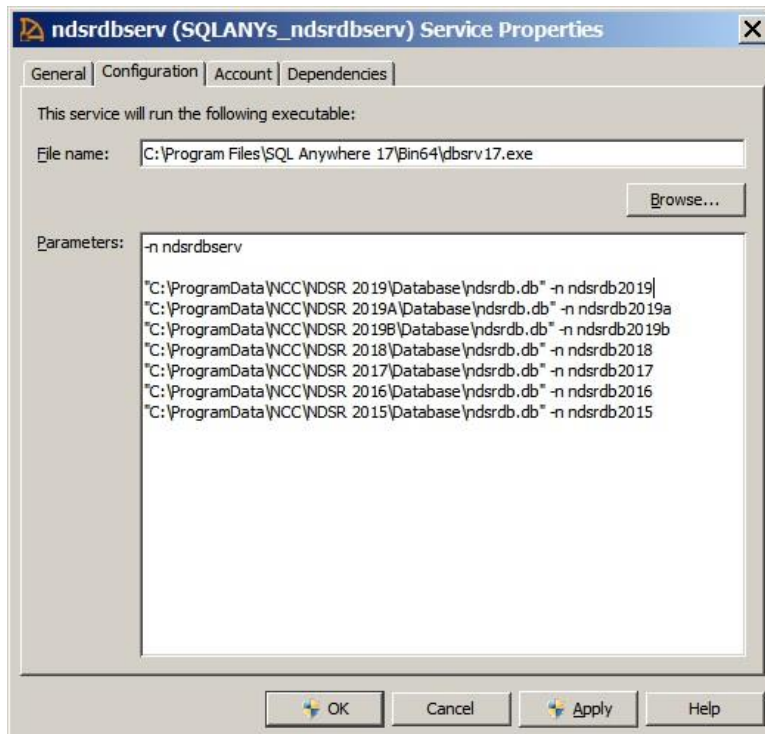
```
-n ndsrdbserv  
"c:\ProgramData\NCC\NDSR 2019\database\ndsrdb.db" -n  
ndsrdb2019
```

To network more than one NDSR database, enter a separate line for each database. In the following example, the service named `ndsrdbserv` runs three NDSR 2019 databases, one NDSR 2018 database, one NDSR 2017 database, and one NDSR 2016 database.

```
-n ndsrdbserv  
  
"path\ndsr2019\ndsrdb.db" -n ndsrdb2019  
"path\ndsr2019A\ndsrdb.db" -n ndsrdb2019a  
"path\ndsr2019B\ndsrdb.db" -n ndsrdb2019b  
"path\ndsr2018\ndsrdb.db" -n ndsrdb2018  
"path\ndsr2017\ndsrdb.db" -n ndsrdb2017  
"path\ndsr2016\ndsrdb.db" -n ndsrdb2016  
"path\ndsr2015\ndsrdb.db" -n ndsrdb2015
```

Select the **NEXT>** button to continue.

These parameters continue to be editable on the **Configuration** tab of the **Service Properties** window after the service has been created.



12. On the next **Create Service Wizard** window, accept the default or select the account under which the service will run.

On the next **Create Service Wizard** window, accept the default, "Automatic" startup type or select the service's startup type.

On the final **Create Service Wizard** window, specify whether to start the service now, and then select the **FINISH** button to complete the **Wizard**.

If you will run only NDSR 2008 or later databases on this service, you may start the service now and skip the next step.

If you will run NDSR 2007 or earlier databases on this service, do not attempt to start the service now. Uncheck the option to start the service now, and select the **FINISH BUTTON** to complete the **Wizard**. The databases must first be updated for SQL Anywhere version 10 - 12 (SA10 - SA12) before they will run on this SA12 service (see the next step).

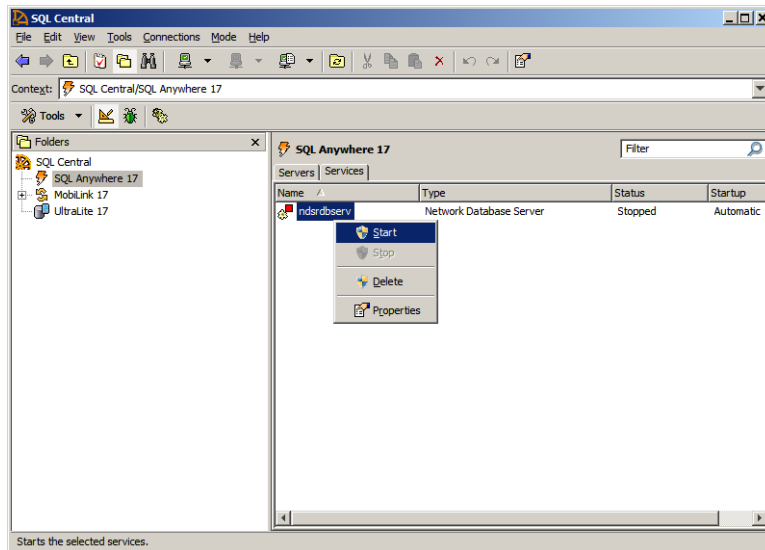
13. Update NDSR 2007 or earlier databases for SQL Anywhere version 10 - 12 (SA10 - SA12) and later.

You may skip this step if you will run only NDSR 2008 or later databases on this service.

Update each database and each client NDSR installation by running the "NDSR update for SA10 - SA12" (and later).

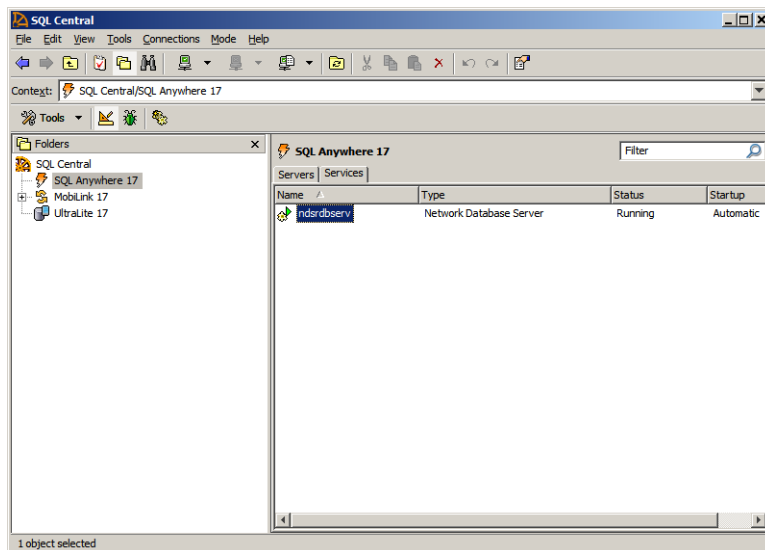
- a. Run the NDSR **custom** installation to install the "NDSR update for SA10 - SA12" (and later).
- b. Start the "NDSR update for SA10 - SA12" by running the executable file "ndsruptatesa10.exe".
- c. When the **NDSR update for SA10 - SA12** window opens, select **Help**→**Help Topics** from the menu and follow the instructions to complete the following updates of all client and server installations of NDSR 2007 or earlier:
 - Update each database on the server.
 - Update the INI file of each client NDSR installation.

14. Start the new network database service with the updated databases.



15. Confirm that the new service has been started. If the traffic-light icon is showing the green light, the service has been started and is running. If the icon is showing the red light, the service has not yet been started. To start the service, select the icon with the right mouse button and choose the **Start** command. If the startup type is "automatic", the service will be started automatically every time Windows is restarted on the server.

If you make a connection to one of the databases (using the Connections menu), you can see and manage the other databases that are running on the service.

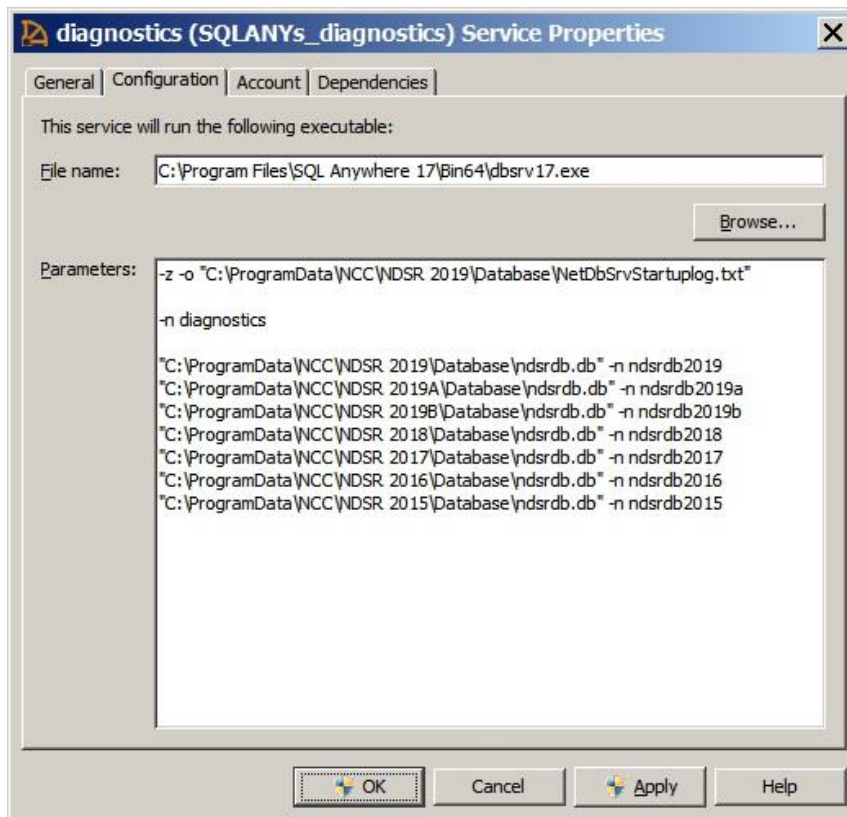


16. If necessary, allow a firewall exception for the SQL Anywhere network database service “C:\Program Files\SQL Anywhere 17\bin32\dbsrv17.exe” on 32-bit system or “C:\Program Files\SQL Anywhere 17\bin64\dbsrv17.exe” on a 64-bit system. The service must be able to listen for unsolicited incoming traffic from NDSR client database connections, by default on TCP port 2638.

If another service is using TCP port 2638 on your server, the SQL Anywhere network database service can be switched to another port by inserting a parameter like “-x tcpip(port=2639)” as the first parameter on the **Configuration** tab of the **Service Properties** window. Each client ODBC data source will then need a TCP/IP parameter like “host=myServerNameOrAddress:2639” to find the network database service on the new port.

17. Close the **Sybase Central** window by selecting **File**→**Exit**.

If you need to troubleshoot your network service, you can log startup and shutdown diagnostics to a file by inserting a parameter like “-z -o C:\temp\mySqlAnywhereStartStopLog.txt” as the first parameter on the **Configuration** tab of the **Service Properties** window.

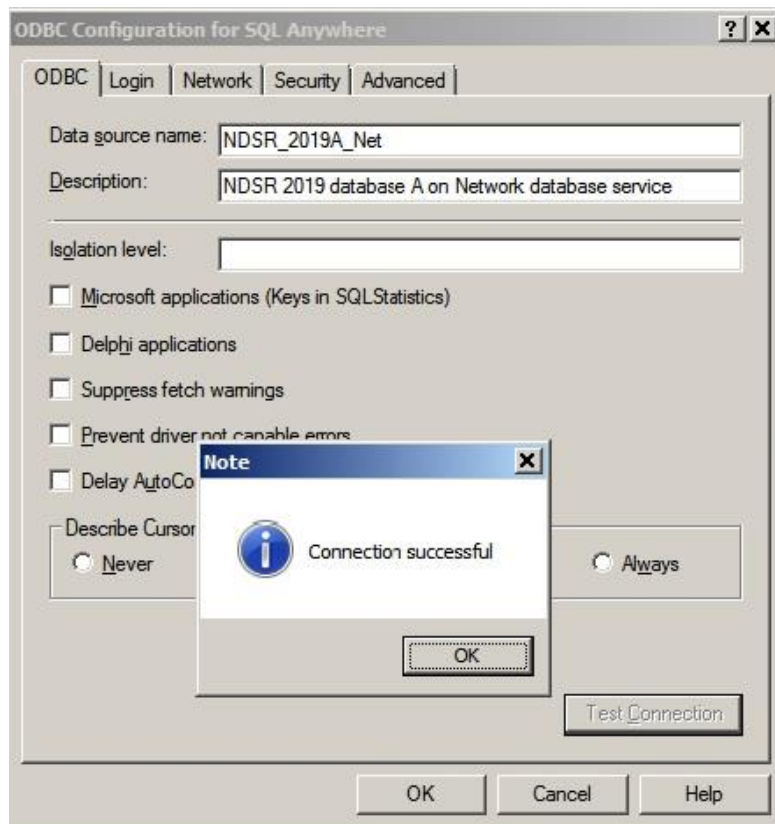



```
NetDbSrvStartuplog.txt - Notepad
File Edit Format View Help
I. 06/06 13:51:25. 1: -z
I. 06/06 13:51:25. 2: -o
I. 06/06 13:51:25. 3: C:\ProgramData\NCC\NDSR 2019\Database\NetDbSrvStartuplog.txt
I. 06/06 13:51:25. 4: -n
I. 06/06 13:51:25. 5: diagnostics
I. 06/06 13:51:25. 6: C:\ProgramData\NCC\NDSR 2019\Database\ndsrdb.db
I. 06/06 13:51:25. 7: -n
I. 06/06 13:51:25. 8: ndsrdb2019
I. 06/06 13:51:25. 9: C:\ProgramData\NCC\NDSR 2019A\Database\ndsrdb.db
I. 06/06 13:51:25. 10: -n
I. 06/06 13:51:25. 11: ndsrdb2019a
I. 06/06 13:51:25. 12: C:\ProgramData\NCC\NDSR 2019B\Database\ndsrdb.db
I. 06/06 13:51:25. 13: -n
I. 06/06 13:51:25. 14: ndsrdb2019b
I. 06/06 13:51:25. 15: C:\ProgramData\NCC\NDSR 2018\Database\ndsrdb.db
I. 06/06 13:51:25. 16: -n
I. 06/06 13:51:25. 17: ndsrdb2018
I. 06/06 13:51:25. 18: C:\ProgramData\NCC\NDSR 2017\Database\ndsrdb.db
I. 06/06 13:51:25. 19: -n
I. 06/06 13:51:25. 20: ndsrdb2017
I. 06/06 13:51:25. 21: C:\ProgramData\NCC\NDSR 2016\Database\ndsrdb.db
I. 06/06 13:51:25. 22: -n
I. 06/06 13:51:25. 23: ndsrdb2016
I. 06/06 13:51:25. 24: C:\ProgramData\NCC\NDSR 2015\Database\ndsrdb.db
I. 06/06 13:51:25. 25: -n
I. 06/06 13:51:25. 26: ndsrdb2015
I. 06/06 13:51:25.
I. 06/06 13:51:25. SQL Anywhere Network Server Version 17.0.4.2053
I. 06/06 13:51:25. Developer edition, not licensed for deployment.
I. 06/06 13:51:25.
I. 06/06 13:51:25. Copyright © 2016 SAP SE or an SAP affiliate company.
I. 06/06 13:51:25. All rights reserved.
I. 06/06 13:51:25. Use of this software is governed by the SAP Software Use Rights
Agreement.
I. 06/06 13:51:25. Refer to http://global.sap.com/corporate-en/our-company/agreements/index.epx.
I. 06/06 13:51:25.
I. 06/06 13:51:25. Connection limit (licensed seats): 3
I. 06/06 13:51:25. Processors detected: 4 logical processor(s) on 4 core(s) on 1 physical
processor(s)
I. 06/06 13:51:25. This server is licensed to use: all logical processors in the system
```

Part 3: NDSR Client Installations

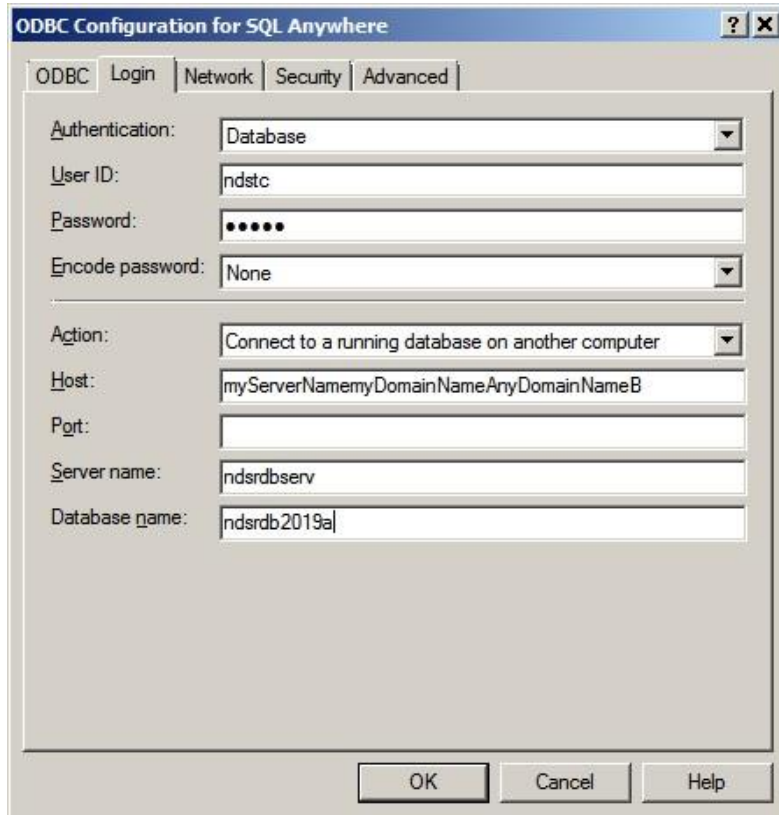
The following steps describe how to install NDSR on each client computer and connect it to the networked license and database.

1. Run the NDSR **C**lient installation (see “*Installing NDSR, non-networked*”).
2. Edit the license path in the NDSR configuration file `ndsrd.ini` (see the client portion of “*Installing NDSR, Networked License*”).
3. Complete the following steps to connect NDSR to the network database service.
4. Open the **Administrative Tools** window and select **Data Sources (ODBC)** from the list.
5. On the **ODBC Data Source Administrator** window, select the **System DSN** tab.
6. Either create a new DSN or find the existing DSN named **NDSR_2019** in the list, highlight it, and select the **CONFIGURE>** button.
7. When the **ODBC Configuration for SQL Anywhere** window opens, verify or update the **Data source name:** and **Description:** fields.



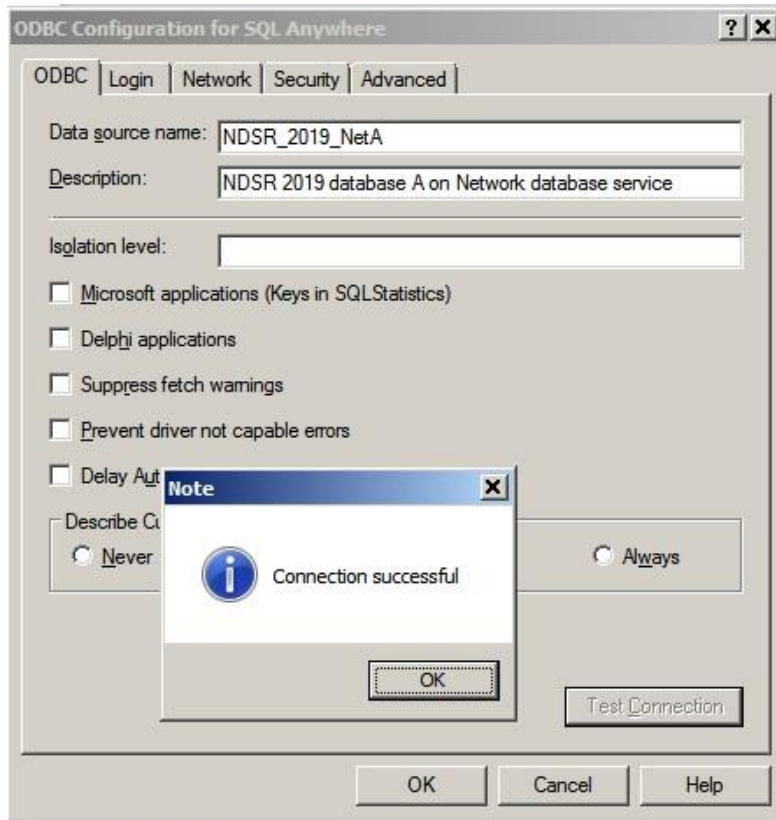
8. Select the **Login** tab. On the **Action:** field select "Connect to a running database on another computer". Complete the **Server name:** and **Database name:** fields (to match the server name and database name you set in Part 2 for the network database service, e.g., `ndsrdbserv` and `ndsrd2019`).

In some cases, the client computer can't find the network database service (e.g., **ndsrdbserv**) unless the server computer is named in the **HOST:** field. In some cases, an alternative to naming the **HOST** machine here in the ODBC Configuration is to update the client machine's network connection (e.g., by specifying or correcting the primary and secondary WINS servers) so that it can find the network database service by name (**ndsrdbserv**).



9. Select the **ODBC** tab and select the **TEST CONNECTION** button.

Verify that the connection is successful.



Select the **OK** button to finish.

Installing Additional Setups

An NDSR **Typical** or a **Client** installation provides one NDSR setup; that is, one instance of NDSR connected to one NDSR database. But sometimes that's not enough: additional setups may be desired to partition data, to register two different NDSR registration types (e.g., Research and Academic) on the same computer, or for other reasons.

The easiest way to install additional NDSR setups is to run an NDSR Custom installation (or a modification as described below) and add one or two setups (with local or network databases). An alternative method is summarized at the end of this section.

To add setups to a **Typical** installation, follow the instructions below that pertain to typical setups (ignoring those that pertain to other types of setups).

To add setups to a **Client** installation, first follow the instructions in "*Installing NDSR, Networked License and Database*" to add databases to the network database service. Then follow the instructions below that pertain to client setups (ignoring those that pertain to other types of setups).

1. Install and register NDSR (**Typical** or **Client**), and then modify that installation as follows.
2. Select **Start**→**Settings**→**Control Panel**→**ADD OR REMOVE PROGRAMS** (or **Programs**→**Uninstall a Program**).
3. In the list of installed programs, select **NDSR 2019**, and then select the **CHANGE/REMOVE** (or **Change**) button.
4. On the InstallShield **Welcome** window, select **MODIFY**, then select the **NEXT>** button.
5. On the **Select Features** window, expand the category **Additional Setups** and the subcategories A and B.
 - a. To add one database, select only one option under **Additional Setup A**.
 - **Typical** installation: **LOCAL DATABASE**
 - **Client** installation: **NETWORK DATABASE**
 - b. To add two databases, select only one option under **Additional Setup A** and only one option under **Additional Setup B** (local or network database as above).

NOTE: Do not deselect any of the currently-selected options or you will uninstall them.

Select the **NEXT>** button.

6. On the **Maintenance Complete** window, select **FINISH** to complete the modified installation.

7. For a **Client** installation, create ODBC DSNs for NDSR_2019_A and/or NDSR_2019_B as described in “*Installing NDSR, Networked License and Database Part 3: NDSR Client Installations*” beginning on page 2.26.

For a **Typical** installation, examine the ODBC DSNs NDSR_2019_A and/or NDSR_2019_B that were created above by the NDSR modified installation.

For any installation, if the license path of the initial NDSR configuration file has been customized, then customize the license path in the same way for each additional setup.

8. To run an NDSR additional setup, select either **Start→Programs→NDSR 2019 A→NDSR 2019 A** OR **Start→Programs→NDSR 2019 B→NDSR 2019 B**.

If more customization or automation is desired, an unlimited number of NDSR setups can be created manually (without running the NDSR installation). For each setup, create an ODBC DSN and an NDSR user folder that contains only an NDSR configuration file (ndsr.ini), an empty set of subfolders (additional files, backup, export, output, and reports), and a shortcut that tells the NDSR application to use this NDSR configuration file (**ndsr.ini**). Customize this NDSR configuration file for this DSN and these NDSR user folders (or, if desired, shared network folders).

Enter the path of the NDSR configuration file at the end of the shortcut target so that it looks like the following (all on one line, quoting only the path of the executable):

```
“C:\Program Files\NCC\NDSR 2019\ndsr.exe”  
C:\ProgramData\NCC\NDSR 2019\ndsr.ini
```

Reference Information

- For information about errors in NDSR, refer to “*Appendix 19, Troubleshooting*”.