



CA4K™ “Database Only”

Installation Guide

(Version 1.1.5x)

Revision: Rev F

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Must Read before you begin installation

- If you are performing an upgrade on CA4K™ Version 1.1.5x or later, the installation will automatically remove the previous version of CA4K™ and the setup must be launched again.
- A **Database Only** (Database Server) computer is used to contain all the SQL databases on it.
- The screenshots in this document might not reflect the latest version of the CA4K™.
- Prior to installing the **Database Only** (Database Server), it is recommended to complete the installation for the Server Only computer (CA4K host). During the Database Only (Database Server) installation, you will be required to point to the “Server Only” computer.

Very Important: If a Database Server is used, you must install the “Server Only” installation on the CA4K host computer.

- On a **Database Server**, it is highly recommended to install a full version of Microsoft SQL Server prior to installing the CA4K™. If the CA4K V1.1.5x **Database Only** installation does not detect a version of Microsoft SQL Server, it will install an instance of SQL Server 2019 Express.
- The **Database Only** installation is used for a **Database Server**. If a Database Only (Database Server) installation is used, you must Enable the DTC Service on the CA4K™ Database Server and CA4K Host/Server computers (Refer to Appendix A).
- Prior to starting the CA4K™ **Database Only** installation, you must make certain you have Full Administrator privileges without any restrictions. This includes lowering the UAC settings to “Never Notify” and verifying there are no domain restrictions. Failure to do so, will result in installation failures.
- Do not install the CA4K license on the **Database Server**. The software license must be imported, activated and registered on the CA4K™ Server Only. The Database Server, HCS, Workstation or Report Station do not get a Software license installed on them.
- A **Database Server** installation will only install four of the five databases. The “caComdb” database is not created on the Database Server.
- A **Database Server** installation only creates a “Tools” folder under the “CardAccess4K” folder.
- A **Database Server** installation will only create a DBUtility4K icon on the desktop.
- The DBUtility on a **Database Server** does not require any configuration. All the settings should be made on the **Server Only** (CA4K host) computer.

Overview

This document provides a step by step procedure of a CA4K™ **Database Only** installation. The **Database Only** installation is used for a **Database Server** that contains a version of **SQL (Full version recommended)** and all the **CA4K™ databases**. Prior to starting the installation, you must verify the computer meets the recommended computer specifications.

System Requirements

Ensure Recommended Server Requirements are met

Make sure that the new server meets the specifications that are documented in the “CA4K™ System Requirements document.

Verify Full Administrator Permissions

The installation of CA4K™ requires Full Administrator permissions. Failure to provide these permissions will result in installation failures.

Related Documents

CA4K™ Complete Install Installation Guide - A step by step guide on installing a “Complete Server” installation.

CA4K™ Hardware Communication Server (HCS) Installation Guide - A step by step guide on installing an HCS Installation.

CA4K™ Report Station Installation Guide - A step by step guide on installing a “Report Station” installation.

CA4K™ Server Only Installation Guide - A step by step guide on installing a “Server Only” installation.

CA4K™ Workstation Installation Guide - A step by step guide on installing a “Workstation” installation.

CA4K™ Data Migration Guide - A step by step guide on migrating a CardAccess 3000 database to a CA4K™ database.

CA4K™ Quick Start Programming Guide - A step by step guide on programming a basic CA4K™ system.

CA4K™ TCP/IP Ports Reference Guide – TCP/IP Ports Reference Guide.

CA4K™ System Requirements – Computer Specifications.

Prerequisites

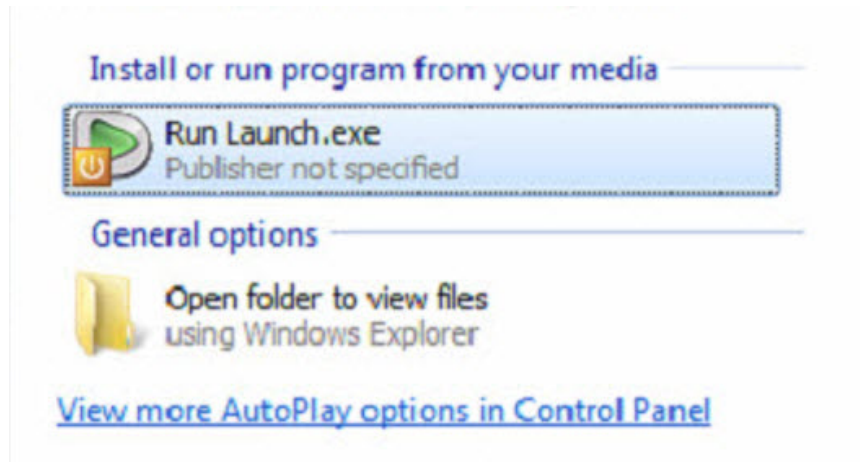
The following prerequisites are required prior to installing CA4K™ . If they are not detected, they will be installed automatically:

- .Net Framework 4.72
- Microsoft Visual C++ Redistributable Packages
- SAP Crystal Reports

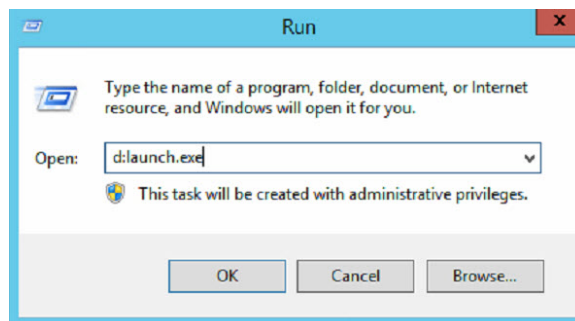
CA4K™ Database Only Installation

1. Insert the CA4K™ Installation DVD into the DVD drive. If **Auto-Play** is enabled on the computer, the software will launch automatically. On some operating systems, the following screen will display. If the screen below displays, click **Run Launch.exe** to start the installation. **Note:** A different screen might display where it is required to **Tap** the screen to launch the installation.

Note: The following screens may not reflect the latest version, but the screens should be the same.



2. If **Auto-Start** is not enabled on the computer, you must manually launch the CA4K™ installation. Simply click the Windows Start button, then click **Run**. In the Run window, browse to the DVD and select **launch.exe** from the DVD drive. Alternatively, you can navigate to the DVD manually and run **launch.exe**. For our demonstration, the DVD drive letter is D:.

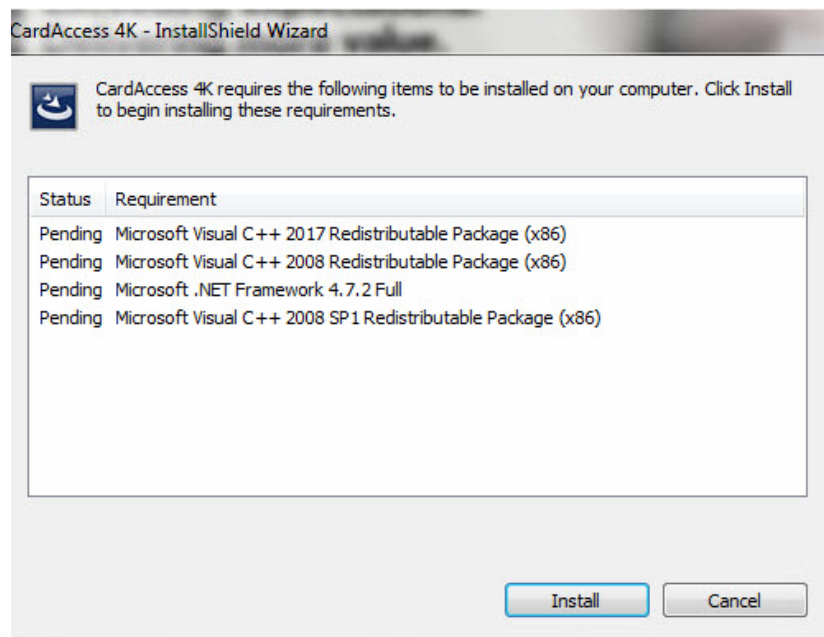


3. If the installation launches automatically, the CA4K™ main menu will display. Click **Install CA4K™** on the Main menu.

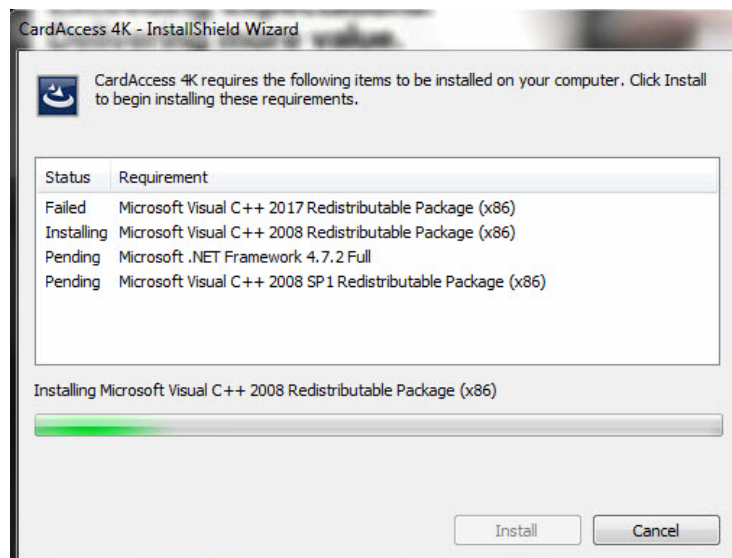


4. The **Requirements** screen displays all the required software components which must be installed before the installation begins. Click **Install**.

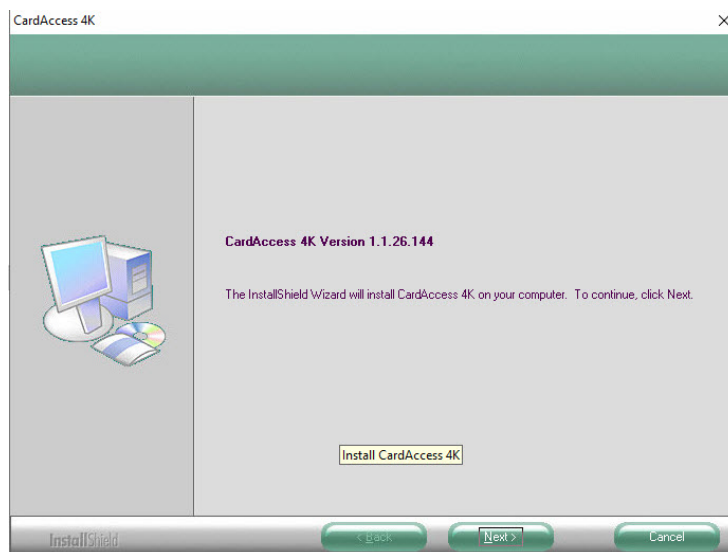
Very Important: The **Requirements** (prerequisites) on the following two screens will vary depending on the operating system.



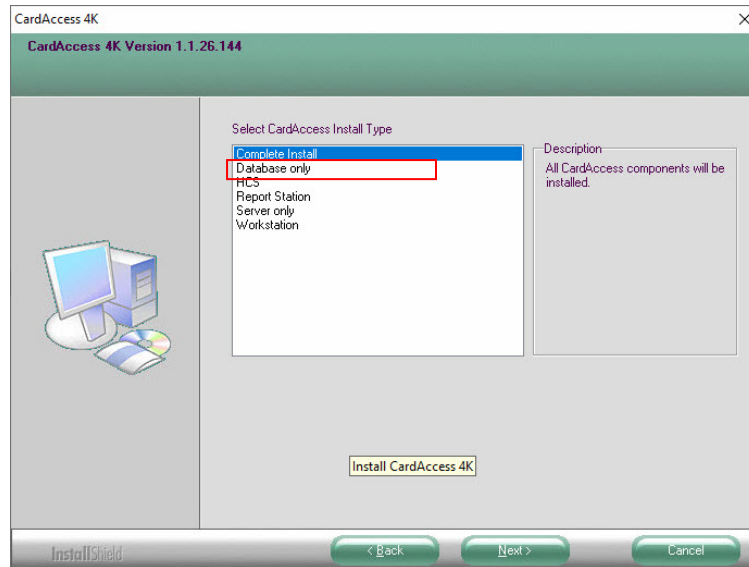
5. A progress bar will display as the **required software components** are being installed.



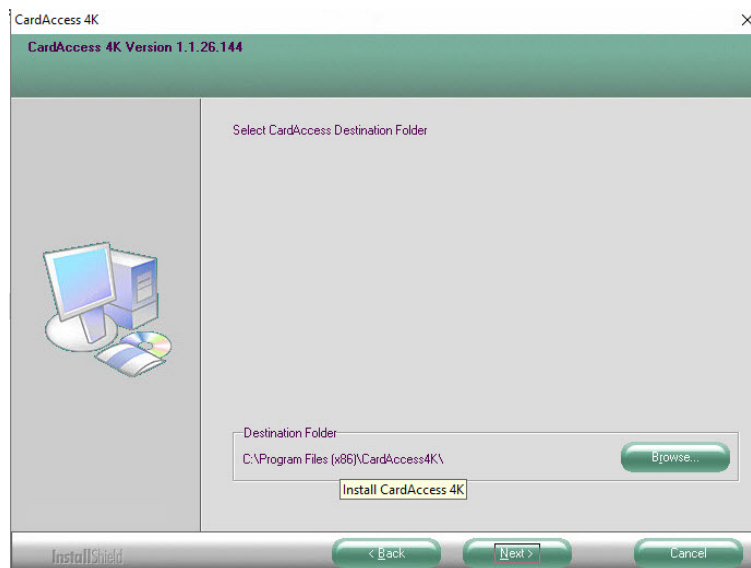
6. After the required software components are installed, the **InstallShield Wizard** screen will display. Click **Next**.



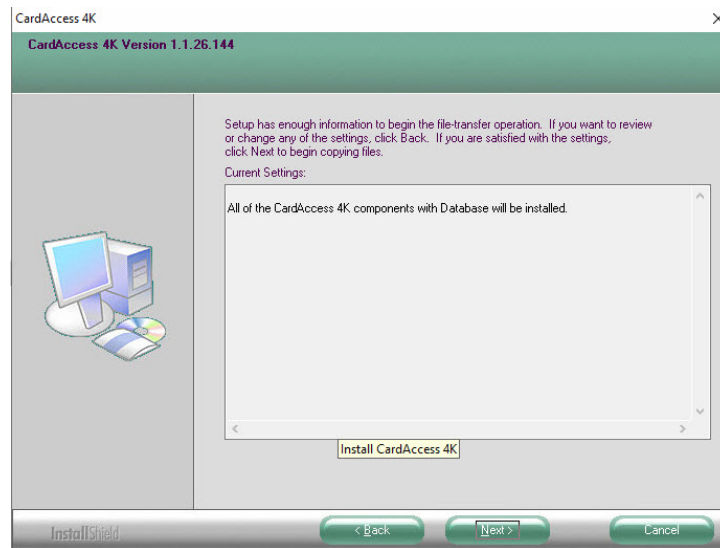
7. On the **Setup Type** screen, select **Database only**. Click **Next**.



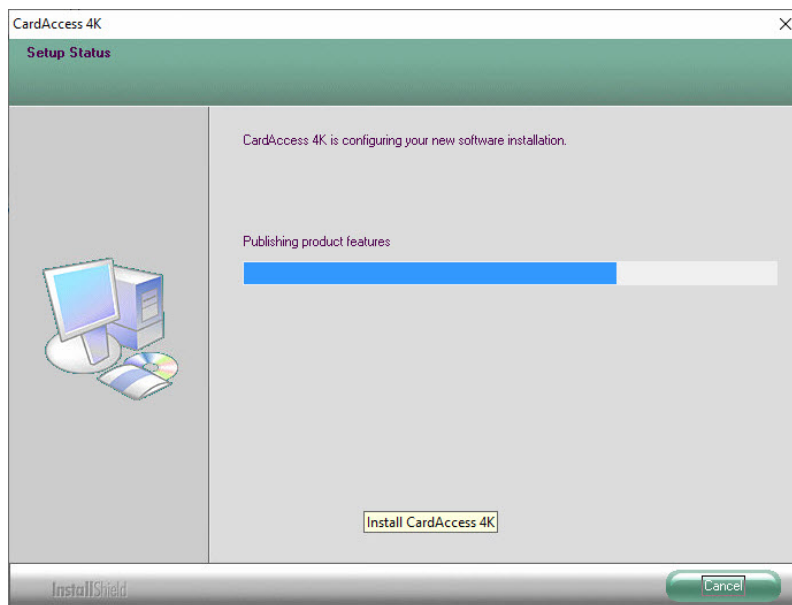
8. The **Select CardAccess Destination Folder** screen displays. It is recommended to use the default path. Click **Next**.



9. The **Current Settings** screen will display with the installation options. Click **Next**.

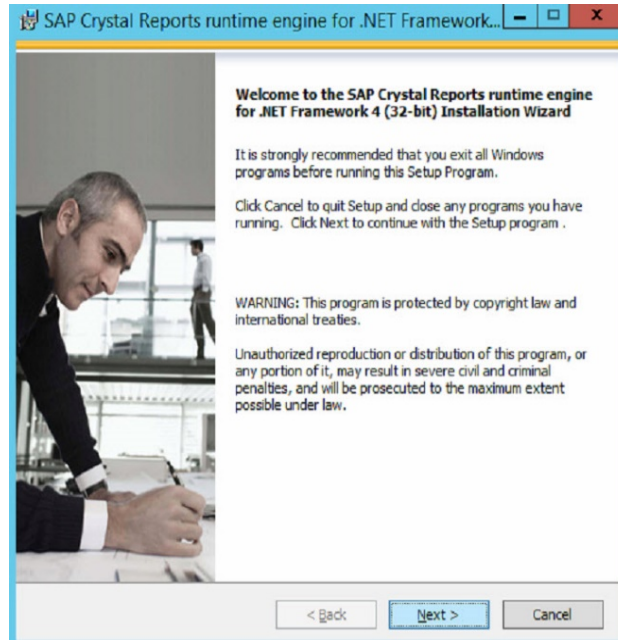


10. A **progress bar** will display during the installation of the CA4K™.

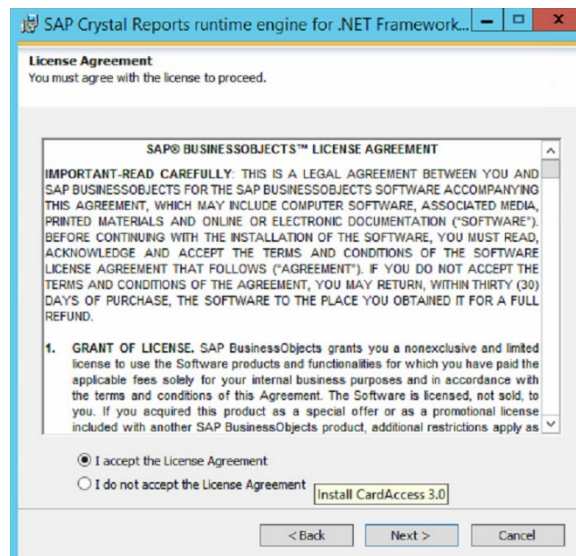


11. The **Welcome to the SAP Crystal Reports runtime engine for .NET Framework 4 (32 bit) Installation Wizard** screen will display. Click **Next**.

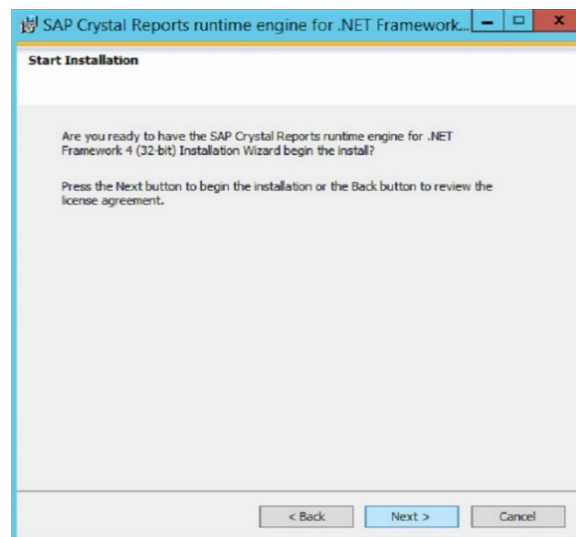
Note: On some operating systems this might not install. If it does not install, continue to step 16)



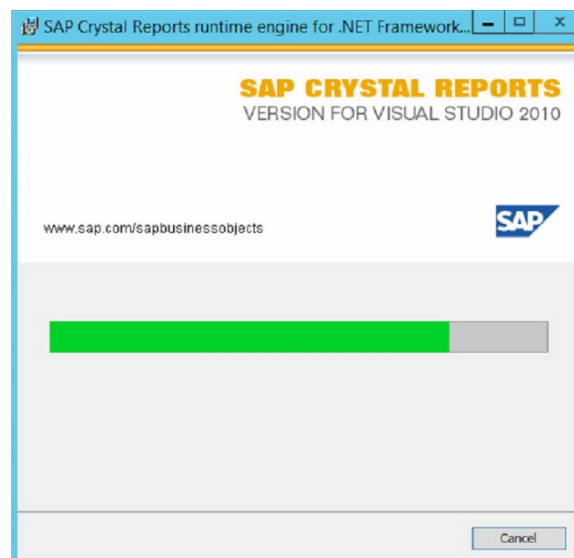
12. The SAP Crystal Reports License Agreement screen displays. Click **I accept the License Agreement**.



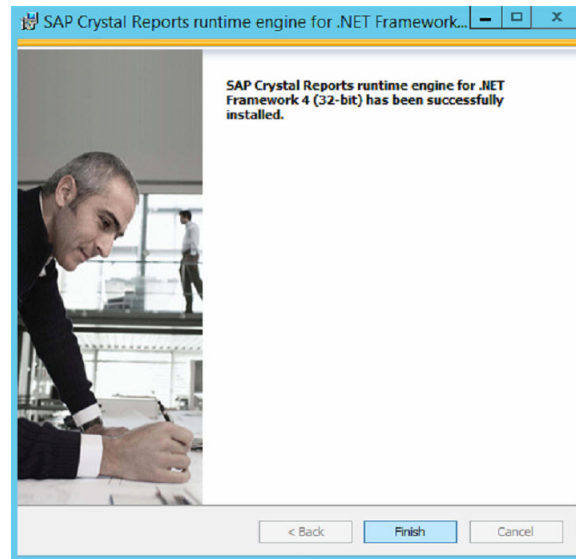
13. The SAP Crystal Reports **Start Installation** screen displays. Click Next.



14. A progress bar will display while the **SAP Crystal Reports** is installing.



15. After the installation is complete, the **SAP Crystal Reports runtime engine for .NET Framework 4 (32 bit) has been successfully installed** screen displays. Click **Finish**.



16. If an instance of SQL Server is not detected, the **Start Installing SQL Server 2019, please wait** screen will display a few times during the installation of SQL Server 2019.

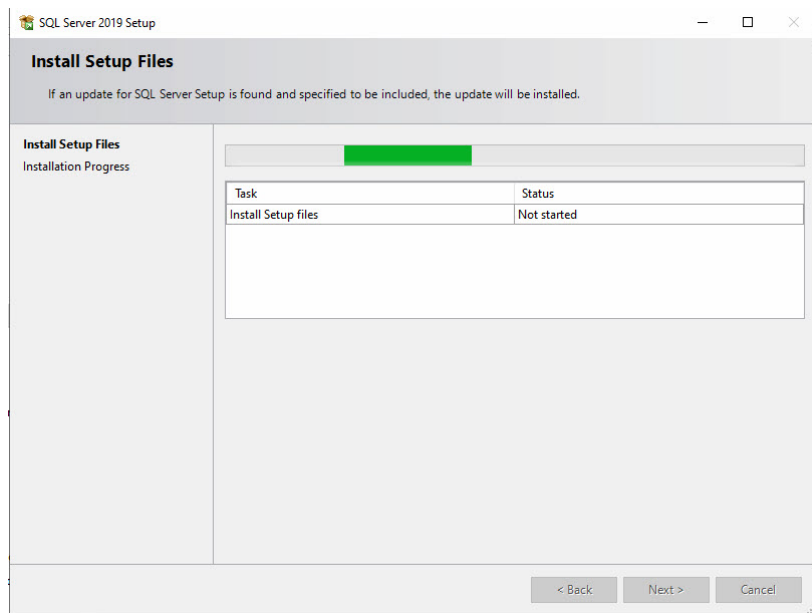
Note: You might see a few other screens flash quickly regarding the creation of databases.



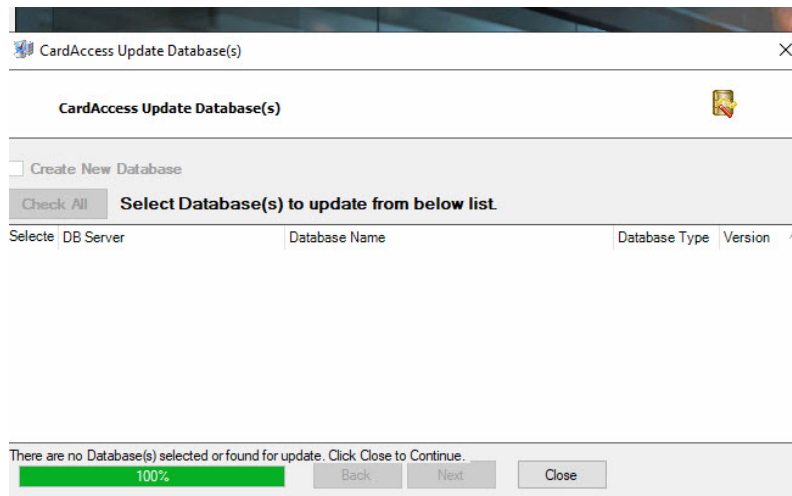
17. The **Install Setup Files** screen displays with a **status** of each task being performed during the installation.
Note: Please verify there are no Failures.

SQL Server 2019

Please wait while Microsoft SQL Server 2019 Setup processes the current operation.

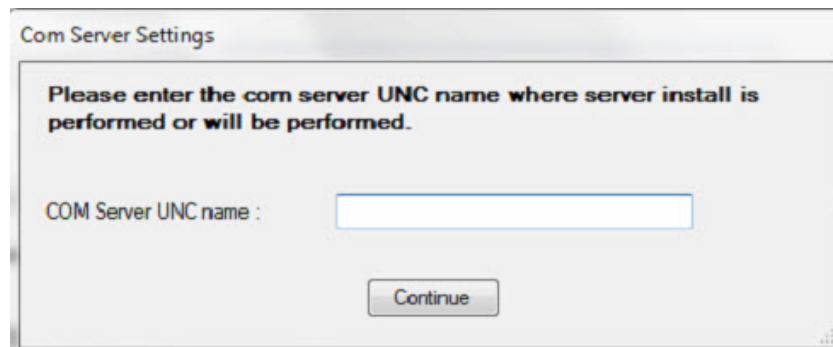


18. The following screen will display if the CA4K installation detects databases that need to be updated. If any databases need updating, you must select the databases and click Next. If there are no databases to update, click **Close**.

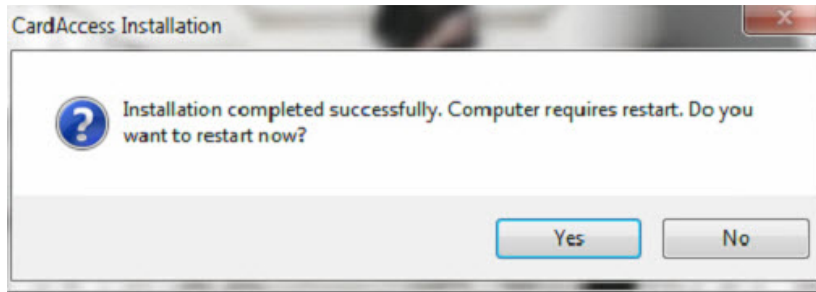


Note: The Database Server installation will create four databases. The **caComdb** database is not created on the Database Server. It will be created on the “Server Only” (CA4K Host) computer.

19. The **Com Server Settings** screen displays. You must enter in the **COM Server UNC name**. Click **Continue**.



20. After the COM Server UNC name is entered and **Continue** is pressed, the **CardAccess Installation completed** screen displays. Click **Yes** to restart the computer.

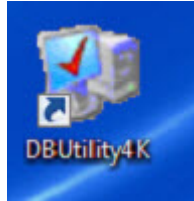


21. If the Main menu displays again, click **Exit**.

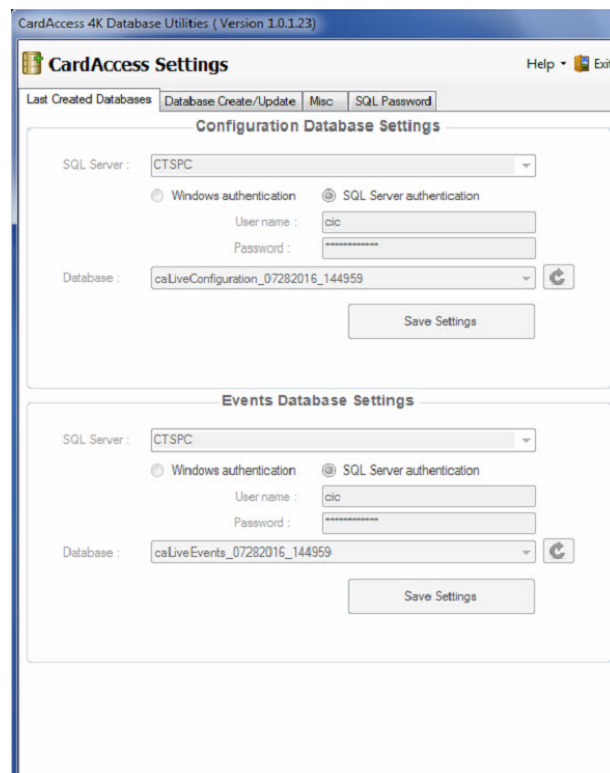


22. During the installation, a **DBUtility4K** icon will be created on the desktop. Click the icon to launch the database utility.

Note: On a Database Server, there is not a CA4K™ launcher icon.



23. Upon launching the DBUtility4K, verify the screen below is populated with the two Live databases created during this installation (caLiveConfiguration and caLiveEvents).

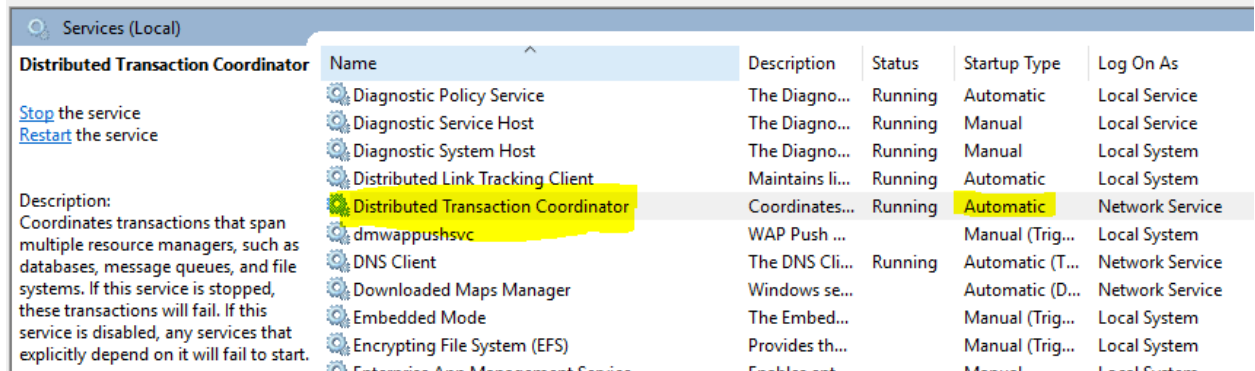
The screenshot shows the "CardAccess 4K Database Utilities (Version 1.0.1.23)" window. The title bar includes "Help" and "Exit" buttons. The main window has a tabbed interface with "Last Created Databases", "Database Create/Update", "Misc", and "SQL Password". The "Database Create/Update" tab is active, showing two sections: "Configuration Database Settings" and "Events Database Settings". Both sections have identical fields: "SQL Server" (CTSPC), "Authentication" (Windows and SQL Server), "User name" (cic), "Password" (masked), and "Database" (caLiveConfiguration_07282016_144959 for Configuration and caLiveEvents_07282016_144959 for Events). Each section has a "Save Settings" button.

APPENDIX A

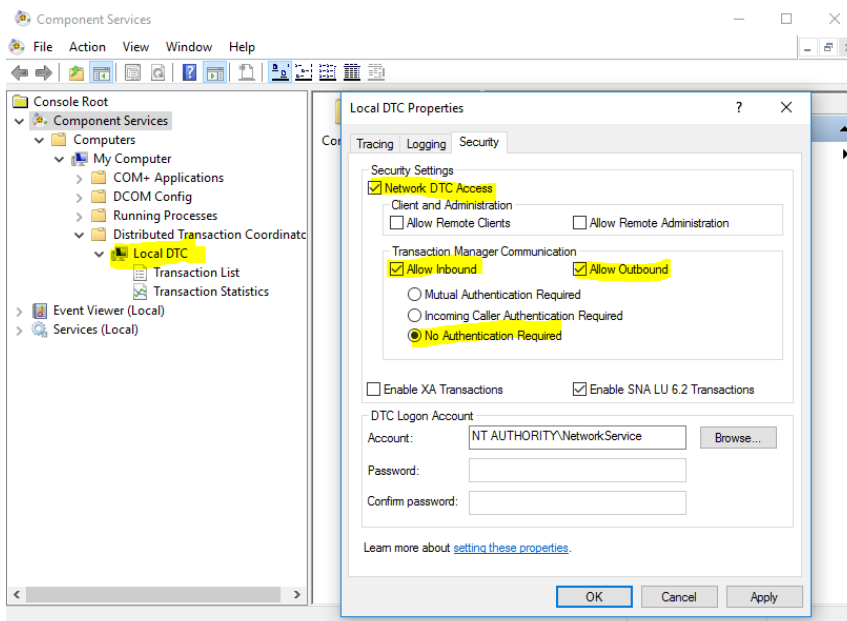
How to Enable DTC Service for a CA4K Database Server

The CA4K requires DTC windows service (Distributed Transaction Coordinator) to be enabled in both Database Server and Host Server if CA4K uses SQL server database from another computer other than the Host PC.

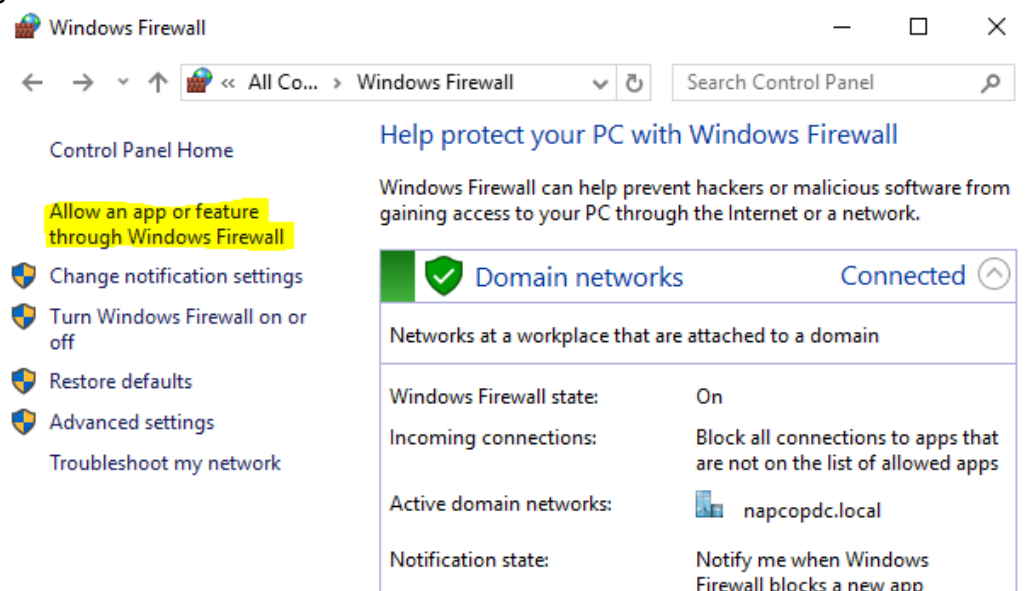
1. From windows services set the DTC service startup mode to be Automatic and start the service.



2. From Control panel ->Administrative Tools-> Component Services right click on **Local DTC** properties and go to security tab and set the setting as shown below.



3. Finally allow DTC service application on Windows Firewall settings.
Go to Control panel ->Administrative Tools-> Windows Firewall and click **Allow an app or features through Windows Firewall.**



Select Distributed Transaction Coordinator and set the settings as shown below.

