

For Use with Microsoft SQL Server or IBM i DB2 Databases



Version V4 R1 M0 5/14/2024

For Use with Microsoft SQL Server or IBM i DB2 Databases

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Accelerator[™] Development Solutions are developed by:



Surround Technologies, LLC™ 9197 Estero River Circle Estero, FL 33928

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1. Overview

Surround's Accelerator Development Solutions are a complete suite of Frameworks and Tools that empower developers to develop Faster, with better results, and More functionality to deliver the software customers, employees, business partners, and vendors will love. The resulting systems allow for the seamless integration of .NET applications with various application and database servers to enhance user experience and productivity to drive greater growth and profit for the business.

2. Prerequisites

2.1 Visual Studio

Before you begin, you will need to have **Visual Studio 2012 or higher** installed on your system. Visual Studio 2022 or higher is recommended.

If you require a copy of Visual Studio, the Visual Studio Community Edition is free for individual developers, open-source projects, academic research, education, and small professional teams. Simply download the installer and follow the on-screen instructions for a complete installation.

Visual Studio Product Page: <u>https://visualstudio.microsoft.com/</u> VS 2019 Community Edition: <u>https://visualstudio.microsoft.com/vs/community/</u>

2.2 Access to a Database

Accelerator is used to quickly develop applications using existing databases. For evaluation purposes you can use your own or download Surround's EasyBuy Demonstration Database.

This Quick Start Guide provides instructions for Microsoft SQL Server and IBM i DB2 Database servers. Accelerator supports development with many other databases as well. Please contact us at support@surroundtech.com if you have questions about other databases.

2.3 Microsoft SQL Server or SQL Server Express Database

If you plan to use Accelerator to create an application that accesses a Microsoft SQL Server or SQL Server Express database, you will need network access to an installation of **SQL Server 2008 R2 or higher**. SQL Server 2019 or higher is recommended

2.3.1 Installing Microsoft SQL Server or SQL Server Database

If you require a copy of Microsoft SQL Server database to evaluate Accelerator, we recommend installing Microsoft SQL Server Express locally on your development PC.

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SQL Server Product Page: <u>https://www.microsoft.com/en-us/sql-server/</u> SQL Server Downloads: <u>https://www.microsoft.com/en-us/sql-server/sql-server/</u> <u>downloads</u>

2.3.2 EasyBuy Demonstration Database (Optional)

The following files are optional downloads if you wish to utilize Surround Technologies' free EasyBuy Cycles demo database which will allow you to follow along with the demo videos and tutorials. EasyBuy provides everything you need to experience the benefits of generating systems with Accelerator.

Download Link:

http://services.surroundtech.com/downloads/Products/A4DN/EasyBuyMSSQLScripts.zip

2.3.3 Configuring Microsoft SQL Server for EasyBuy Database

If using the Surround Technologies EasyBuy Database, you will need to create a user with the proper authorizations for creating and maintaining your database, as well as the initial sample database itself.

Open Microsoft SQL Server Management Studio and connect to your Database Engine. Right click on your Database Server in the Object Explorer and select Properties. Click on the Security page and make sure SQL Server and Windows Authentication mode are selected. Press OK.

Select a page				
P General	Script 🔻 🚺 Help			
Memory Processors Frocurity Generations Connections Advanced Pemissions	Server authentication			
Connection	Password			
Server: WIN-PQKPC6LOQKQ Connection: WIN-PQKPC6LOQKQ	Options Details C2 audit tracing Cross database ownership chaining			
Progress				
C Ready				
		ОК	Cano	el

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Next, create a new database by right clicking the Databases folder in the Object Explorer and selecting "New Database". Name your new database "EasyBuyDev". Press OK to save the database.

Next, expand the Security folder of your database connection, right-click on Logins and select New Login. Select a Login Name, select "SQL Server authentication" and specify a password. You may want to uncheck "User must change password at next login".

Select a page denoral	Script 🔹 🚺	Help					Select a page	🖾 Script 👻 🚺 Help				
🚰 Options 🚰 Filegroups	Database name Owner: Use full text i Database files:	indesting	EasyBuyD <defaut></defaut>				Parver Roles User Mapping Securibles Status	Login name: Windows authentication SQL Server authentication Password: Confirm password:	dba		Se	iearch
	Logical Name EasyBuyDev EasyBuyDev	File Type ROWS LOG		Initial Size (MB) 3 1	Autogrowth / Maxsize By 1 MB, Unlimited By 10 percent, Unlimited			Specify old password Old password Old password Frforce password expi User must change pass Mapped to certificate Mapped to asymmetric key	ration sword at next login		~	
onnection							Connection	Map to Credential				
Server: WIN-PQKPC6LOQKQ Connection: WIN-PQKPC6LOQKQ							Server: WIN-PQKPO5LOQKQ Connection: WIN-PQKPO5LOQKQ	Mapped Credentials	Credential	Provider		
rogress							Progress				P	Remove
C Ready	<			Add	Remove	>	() Ready	Default database: Default language:	master English		~	

Next, select the Server Roles page and grant the user "public" and "sysadmin" security privileges.

Lastly, select the Status page and confirm that the user has been Granted Permission to connect to the database engine, and that the login is Enabled. Click OK to finish creating the user.

Select a page	a	Select a page	(D)			
A General	🔄 Script 👻 🚺 Help	General	Script 🝷 🚺 Help			
off General General Stef [™] User Mapping [™] Securates [™] Status	Server role is used to grant server-wide security privileges to a user: Server roles:	Source Roles	Settings Permission to connect to database engine:			
Connection		Connection				
Server: WIN-PQKPC6LOQKQ Connection: WIN-PQKPC6LOQKQ		Server: WIN-PQKPC6LOQKQ Connection: WIN-PQKPC6LOQKQ				
Wew connection properties		製 <u>New connection properti</u>	ies			
Progress		Progress				
C) Ready		Ready				
	ОК	Cancel		ОК	Can	icel

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The Microsoft SQL Server Database is now configured for use with Accelerator for .NET.

Now that the database and user for the demo have been created, we just need to configure the EasyBuyDev database prior to the installation of the free trial software if you plan to use the provided Free Demo EasyBuy system. We've gone ahead and wrote some scripts to make this simple and easy. Locate the zip file named "EasyBuyMSSQLScripts" downloaded in section: <u>EasyBuy Demonstration Database</u> (Optional).

When you unzip this file, you will see the EasyBuy Schema and 5 other scripts which contain the data we will use to configure the database for use with the EasyBuy demo system. In SQL server Management Studio, you will need to run these scripts **in the following sequence**:

- 1. EasyBuyDev_Schema.sql EasyBuy Database Schem
- 2. EasyBuyDev_YD1C.sql
- EasyBuyDev_YD1O.sql
- EasyBuyDev_YD1P.sql
- 5. EasyBuyDev_YD1S.sql
- 6. EasyBuyDev_YD1I.sql
- Order Item Data

Shipping Address Data

Customer Data

Order Data

Product Data

Simply open each file by double clicking it and running in SQL Management Studio one at a time and select "Execute" from the SQL Management Studio toolbar. Longer scripts may take some time to complete, progress can be tracked at the bottom of the Microsoft SQL Server Management Studio screen.

2.4 IBM I DB2 Database Server

If you plan to use Accelerator to create an application that accesses an IBM Power Systems IBM i DB2 database, you will need network access to a system with **IBM i OS V6.1 or later**. IBM i OS V7.3 or higher is recommended.

IBM i Product Page: https://www.ibm.com/it-infrastructure/power/os/ibm-i

2.4.1 Installing and configuring the IBM I .NET Data Provider

There are many ways of accessing the IBM i integrated DB2 database. The following provides instructions for using the IBM i .NET Data Provider, a free solution included with IBM i Access Client Solutions. Please contact us at support@surroundtech.com if you have questions about DB2 Connect or other ways to access.

You will need an IBM ID and Password to access the downloads.

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IBM i Access Client Solutions Information: <u>https://www.ibm.com/support/pages/ibm-i-access-client-solutions</u>

IBM i Access Client Solutions Download Page:

https://www.ibm.com/resources/mrs/assets?source=swg-ia

IBM i Access Client Solutions Download:

https://iwm.dhe.ibm.com/sdfdl/v2/regs2/sharee2/iacsjava/v1r1/Xa.2/Xb.Fjx4e5cja3gCA XSAOEU3QUtuUdWwMC0eBwGtxPCfr8k/Xc.iacsjava/v1r1/IBMiAccess_v1r1.zip/Xd./Xf.IP r.D1vk/Xg.11751639/Xi.swgia/XY.regsrvs/XZ.gZxL2TMd7GPx8BJC_R_eJ9SvSmONHEsc/IB MiAccess_v1r1.zip

The free IBM i ACS .NET Data Provider gets installed through the "IBM i Access Client Solutions - Windows Application Package".

Windows Application Package Download:

https://iwm.dhe.ibm.com/sdfdl/v2/regs2/sharee2/iacsjava/v1r1/Xa.2/Xb.Fjx4e5cja3gCA XSAOEU3QUtuUdWwMC0eBwGtxPmZYWw/Xc.iacsjava/v1r1/IBMiAccess v1r1 Window sAP_English.zip/Xd./Xf.IPr.D1vk/Xg.11751639/Xi.swgia/XY.regsrvs/XZ.gU663PwJUeK72n3 fM-vNnTn3UFIncm30/IBMiAccess v1r1 WindowsAP_English.zip

Install IBM i Access Client Solutions – This is a Java Application. You must have Java installed for it to work and the Installation itself is a bit different than typical windows installations. You must unzip it and go to the **Windows_Application** folder, right click on **install_acs_64_allusers.js** and open it using **Microsoft Windows Based Script Host**.

Important: If you have the previous IBM I Client Access version installed, it **MUST** be uninstalled first.

Install ACS Windows Application Package – You must unzip the downloaded file, go to the Image64a folder, and run setup.exe.

🖁 IBM i Access Client Solu	ttions - Application Package - InstallShield Wizard Welcome to the InstallShield Wizard for Access Client Solutions - Application Pac	
	The InstallShield(R) Wizard will allow you to modify, repremove IBM i Access Client Solutions - Application Packa continue, click Next.	air, or
	< Back Next > Ca	incel

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BM i Access	Client Solutions - Application Package - InstallShield Wizard	×	BM i Access Client Solutions - Application	Package - In:	stallShield Wizard	×
Program Main Modify, repair	r, or remove the program.		Custom Setup Select the program features you want installed	l.		
• Modify	Change which program features are installed. This option displays the Custom Selection dialog in which you can change the way features ar installed. Repair installation errors in the program. This option fixes missing or corrupt files, shortcuts, and registry entries.		Click on an icon in the list below to change how a Click on an icon in the list below to change how a Click DBP Provider Click DBP Provider Click DBP Provider Click DBP Provider Click DBP Provider Click DBP Click DBP Click Click DBP Click DBP Click DBP Click DBP Cli		Feature Descript Provides access for .NET develop	to DB2 for IBM i
C Remove	Remove IBM i Access Client Solutions - Application Package from your computer.	Cancel	InstallShield	< <u>B</u> ack	Next >	Cancel

Make sure the .NET Data Provider is selected and click the **Next** button. The Accelerator only requires that **Required Programs** and **.NET Data Provider** be installed. It is your preference if you wish to install the other options. Click Next to finalize the installation.

Click Install to complete the installation.

BM i Access Client Solutions - Applicat	tion Package - Ir	stallShield Wizard	×
Ready to Modify the Program			- C -
The wizard is ready to begin installation.			
Click Install to begin the installation.			
If you want to review or change any of you the wizard.	our installation set	tings, click Back. Click	Cancel to exit
InstallShield			
	< <u>B</u> ack	Install	Cancel

2.4.2 EasyBuy Demonstration Database (Optional)

The following files are optional downloads if you wish to utilize Surround Technologies' free EasyBuy Cycles demo database which will allow you to follow along with the demo videos and tutorials. EasyBuy provides everything you need to experience the benefits of generating systems with Accelerator.

Download Link:

http://services.surroundtech.com/downloads/Products/A4DN/EasyBuyDB2SaveFile.zip

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To make setup and configuration simpler, we have created a save file that will take the heavy work out of any configuration. Simply download the zipped save file from: http://services.surroundtech.com/downloads/Products/A4DN/EasyBuyDB2SaveFile.zip

Unzip the save file named easybuydev.savf.

On your IBM i, use the following command to create a new save file: CRTSAVF FILE(EASYBUYDEV) TEXT('Easy Buy Demo Save File')

FTP the easybuydev.savf file from your PC to your IBM i by opening a command prompt and issuing the following commands:

cd <the folder location of the file easybuydev.savf.> ftp <Your IBM i IP Address> <IBM i User ID> <IBM i Password> bin Put easybuydev.savf easybuydev

On your IBM i, use the following command to restore the library in the save file: *RSTLIB SAVLIB(EASYBUYDEV) DEV(*SAVF) SAVF(EASYBUYDEV)*

The library EASYBUYDEV will now have the 5 EasyBuy files that are used in the Accelerator Generation Demo.

3. Accelerator for .NET

3.1 Installation

Locate the "Accelerator Environment Provisioned" email you received upon registering for the trial. Download the Accelerator for .NET that best suits your system, 32-bit for x86 systems or 64-bit for x64 systems. You will also need to download the included Generation Standards Zip File.

Extract the contents of the Generation Standards zip file, and then place the Accelerator for .NET folder contained in it within your Documents folder. It should look like the following:

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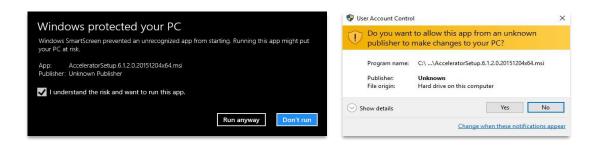
← → ~ ↑ □ > T	his PC > Documents > Accelerator for .NET	5 V T	Search Accel	erator for .NET	Q
S ^I Quick access Downloads Dektop Decembra Decembra Decembra Decembra Pictures Pictures This PC Metwork	Name GenerationWizardPlugin StandardsConfiguration *	Date modified 12/9/2015 3-43 PM 12/9/2015 3-45 PM	Type File folder File folder	Size	
2 items					8== 0

Run the Accelerator Setup installer to begin the installation of Accelerator for .NET. The onscreen instructions will quickly guide you through the installation process including where to save your application files. If you are prompted with any Windows security warnings, allow access to the setup application to continue the install.

	Welcome to the A 8.0.0.38 Setup Wi		.NET
SURROUND TECHNOLOGIES	The Setup Wizard allows yo for .NET 8.0.0.38 features to remove it from your com Cancel to exit the Setup W	are installed on you oputer. Click Next to	ur computer or
(Mark)	Back	Next	Cancel

Windows Security prompts may be displayed. Grant Permission to proceed with installation.

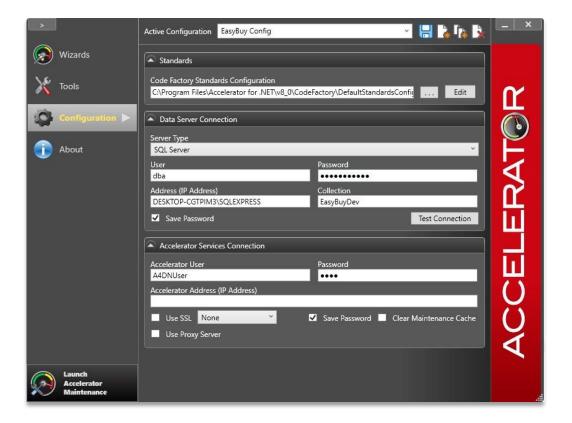
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Once the installation is complete, run the Accelerator launchpad from your desktop by double clicking the Accelerator icon created during the installation process.

3.2 Configuration

Before you can begin creating your applications, you'll need to configure the Accelerator to connect to the database you created earlier. To do this, run the Accelerator Launchpad from the Desktop and click Configuration from the Accelerator's Launch Pad window.



Accelerator Generation Standards: To make the configuration process simpler, your Generation Standards zip file contains preset standards configurations to get you started. Under the standards area, select the browse button "…" and navigate to Documents > Accelerator for .NET > Standards Configuration > EasyBuy Folder. For Microsoft SQL databases select the

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StandardsConfiguration_MSSQL.xml file. For IBM users a DB2 standards xml file has been provided as well.

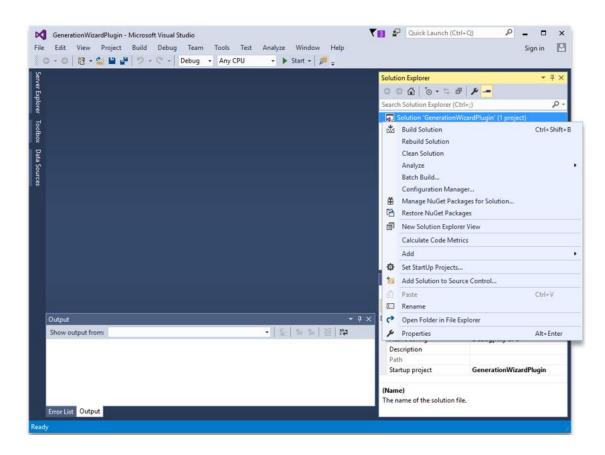
Data Server Connection: Next, in the Data Server Connection area, select your server type, ie: MS SQL Server. Enter the user and password for your Server. If the database is on your local machine use the instance name, typically the topmost level of the tree in SQL Server Management Studio, for the Address. If your server is located on a network, use the IP address of that server. Be sure to enter the Database you wish to use, ie: EasyBuyDev, and click Test Connection to guarantee the specified location and credentials have the proper authorizations and can successfully connect to your SQL Server database.

Accelerator Services Connection: Lastly, enter your Accelerator username and password, found at the bottom of the "Accelerator Environment Provisioned" email. You will also need the Accelerator Address for connecting to your own personally provisioned environment. Now that you've installed and configured the Accelerator, you're ready to begin generating systems faster than before, with better results and more functionality. Thank you for choosing the Accelerator for .NET, and we hope you enjoy developing smarter.

3.3 Generation Wizard Plugin

Some users may require rebuilding the Generation Tool prior to generation. To do this, navigate to your Documents > Accelerator for .NET > GenerationWizardPlugin folder and open the GenerationWizardPlugin.sln Solution using your copy of Visual Studio 2019. Right click on the GenerationWizardPlugin project in the Solution Explorer panel and select "Rebuild Solution". Once the solution is rebuilt, simply exit Visual Studio. The Plugin is now ready to be used with the Generation Wizards.

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3.4 Accelerator Generation Standards

The Accelerator allows you to provide a plugin that tailors how code is generated based on your standards. If you choose to generate using our EasyBuy Database, it is recommended that you download and use the Accelerator Generation Standards.

This **AcceleratorGenerationStandards.zip** download is specific to each Accelerator version and is provided in your Accelerator Environment Provisioned email.