

BillQuick

Time Billing and Business Management Software

*Built With **Your** Industry Knowledge*

BillQuick SDK 2011 Getting Started Guide



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Introduction

Welcome to BillQuick SDK® from **BQE Software, Inc!**

BillQuick is a time tracking, billing and business management software. The goal of this **BillQuick SDK Getting Started Guide** is to provide an overview of developing with the BillQuick Software Development Kit. It explains the system requirements, concepts, code samples and procedures involved in using the BillQuick SDK.

System Requirements

Processor	450 MHz Pentium II-class processor; 600 MHz Pentium III-class processor recommended
Operating System	Windows Vista™ Microsoft Windows Server 2003 Microsoft Windows XP Professional Microsoft Windows 2000 Professional (Service Pack 3 or later) Microsoft Windows 2000 Server (Service Pack 3 or later)
Memory	128 MB (min)
Hard Disk	2 GB on installation drive
Removable Media	CD-ROM or DVD-ROM is required for CD versions DVD-ROM is required for DVD versions
Display	800 x 600 or higher resolution display with 16-bit color or better
Pointer Device	Microsoft Mouse or compatible pointing device
Software	BillQuick 2008 or later Microsoft Visual Studio 2005 with latest service pack (for samples) Microsoft Visual Studio 6.0 with latest service pack (for samples) Microsoft Dot Net Framework 2.0



BillQuick SDK Getting Started Guide does not contain all the details. After completing the guide, we recommend that you explore the **BillQuick SDK Help**.

BillQuick SDK Basics

For a successful installation and implementation of your BillQuick SDK software, be sure your computer systems meet or exceed the system requirements mentioned above.

To install BillQuick SDK, run the setup.exe file. By default, the installation path will be C:\Program Files\BillQuick 2011\SDK or a developer can select a different path during the installation.

Software Development Kit

The BillQuick SDK contains the following:

BillQuickSDK2011.dll

The primary component of the BillQuick Software Development Kit is the library BillQuickSDK2011.dll, which is a .NET 2.0 assembly and can be included in your development environment. Since it is a .NET Assembly, you can browse the objects in it by using the Object Browser. No user interface components are provided in the BillQuickSDK2011.dll. It contains all the classes, constants, properties and enumerations defined by the BillQuick API.

BillQuickSDK2011.tlb

This is a COM Type library which will allow any COM application to reference the BillQuickSDK .NET assembly.

BillQuickSDKHelpFile.chm

BillQuick SDK Help is provided as a single file, BillQuickSDKHelpFile.chm, which documents the Software Development Kit for the BillQuick product. It includes both a series of conceptual topics as well as a reference to the types and members of the BillQuick API.

BQConnection2011.dll, BQTimeLock2011.dll, libmySQL.dll

All these are BillQuick core components, which are referenced by the BillQuickSDK Assembly.

ReadMe.doc

This document gives a quick and brief introduction to the BillQuick SDK and also identifies the system requirements.

Samples

This folder contains samples that are provided as part of the BillQuick SDK installation. There are four sample projects:

- C# Web application
- C# Standalone application
- VB.Net Standalone application
- VB 6 application

Sample_Datafile2011.mdb

This is the sample database which is used by the Sample applications.

Developer Components and Tools

This topic outlines the developer components and tools that can be used in the course of developing solutions using the BillQuick SDK.

.NET Framework and Runtime

The BillQuick SDK runs on top of the Microsoft .NET Framework 2.0.

BillQuick SDK Assemblies

- BillQuickSDK2011.dll, which contains the definitions for all the classes, constants, properties and enumerations exposed through its API
- BQConnection2011.dll, BQTimeLock2011.dll, libmySQL.dll, which are BillQuick core components referenced by the BillQuick SDK Assembly

MS Access/MS SQL Server

The database engine used by BillQuick SDK is Microsoft Access or SQL server.

Tools

- Microsoft Visual Studio 2005

Project Configuration

This topic discusses configuring Visual Studio .Net development environment to develop projects using the BillQuick SDK application programming interface.

Including the BillQuick SDK API Assembly

To create solutions using the Visual Studio that will use the BillQuick SDK, a reference should be added to the BillQuickSDK2011.dll. The path to the dll depends on the path chosen during the installation of BillQuickSDK2011.dll. By default, the path will be C:\Program Files\BillQuick2011\SDK\BillQuickSDK2011.dll.

Importing the Namespaces

Rather than provide fully qualified references to BillQuick SDK 2011 API type in your type declarations, you may want to include the using statement in C# or the Imports statement in Visual Basic .NET to import the BillQuick SDK namespace.

C#

```
using BillQuickSDK2011;
```

VB .NET

```
Imports BillQuickSDK2011
```

Getting Started

To initialize BillQuick SDK, the first step for a developer is to connect to BillQuick by instantiating an object of *BQConnect* class. The constructor for this class needs two parameters namely Company Name and Key. Any developer who needs to use SDK will have to request BQE Software (sales@bqe.com or 310-602-4020) for the SDK Key. The keys will be generated based on the developer's Company Name. BQE Software will send a NDA document, verify the developer's credibility and assign a key.

In order to evaluate SDK, developers can provide following credentials to the constructor of *BQConnect* class, Company Name = 'XYZ Consulting Corporation' and Key as 'QUER-POIU-ASDF-LKJH'.

The constructor of *BQConnect()* class verifies the company name and key. By default our SDK can work with *Sample_Datafile2011.mdb* or any other BillQuick data file, provided the Company Name is 'XYZ Consulting Corporation'.

SDK Code Samples

The SDK provides code samples that demonstrate the use of BillQuick SDK API. If BillQuick SDK is installed to default location, the samples are in *C:\Program Files\BillQuick2011\SDK\Samples*. There are four sample projects

- C# Web application
- C# Standalone application
- VB.Net Standalone application
- VB 6 application

The first three samples have been compiled and tested in Microsoft Visual studio 2005 development environment. The samples are provided as complete Visual studio projects that you can open, configure and run.

Requirements to Build and Run Samples

- BillQuick 2011
- A local installation of Visual Studio 2008 SP 1 (*For VB 6 sample application use Microsoft Visual Studio 6.0 with latest service pack*)
- Microsoft .Net Framework 2.0
- BillQuick 2011 sample data file

Running the Samples

All samples except the VB 6 project have an accompanying Visual Studio .NET project file for Visual Studio 2005 in their separate directories and can be built separately. Once a project has been opened up in VS 2005 SP 1, the existing reference to *BillQuickSDK2011.dll* should be removed and a new reference should be added to it. The path to the dll depends on the installation path chosen during the installation of *BillQuickSDK2011.dll*. By default the path will be *C:\Program*

Files\BillQuick2011\SDK\BillQuickSDK2011.dll. Once it has been set, the sample can be build and run.

For C# web application, set Home.aspx as start page before running the application.

Note: Make sure the BillQuick data file that is being used has Full Control access for ASP.NET account.

Connection to BillQuick

In order to make a connection to a BillQuick 2008, 2009, 2010 or 2011 data file, the Connect() method of *BQConnect* class is called. There are various override Connect methods. If the default Connect() method is used without any parameters, SDK will automatically detect the data file that is being used by BillQuick 2011 and SDK will work on it .

```
BQConnect conn = new BQConnect("XYZ Consulting Corporation", "QUER-POIU-ASDF-LKJH");  
conn.Connect();
```

To connect to a different data file, the developer can pass the complete path of the data file to the override Connect() method having one parameter.

```
BQConnect conn = new BQConnect("XYZ Consulting Corporation", "QUER-POIU-ASDF-LKJH");  
conn.Connect("C:\\Program Files\\BillQuick2011\\My Company Data File 2011.mdb")
```

Note:

In order to use 'C:\\Program Files\\BillQuick2011\\My Company Data File.mdb' in evaluation mode, please make sure your data file company name has been set to 'XYZ Consulting Corporation'. You can set company name of your data file using BillQuick 2011. See *BillQuick 2011 Help File Section: Master Information -> Company Profile -> General*.

For more information, visit us at www.bqe.com. If you have any questions, please call us at (888) 245-5669 (US and Canada) or (310) 602-4020.