

QT9™ Data Sync White Paper

The QT9™ Data Sync is a simplistic bridge application that is written in C# to create a one-way interface between your ERP/MRP database and your QT9 QMS Web installation. The Data Sync needs read-only access (done via user credentials on the ERP/MRP database).

System Requirements

The primary system requirements for the Data Sync are as follows:

Operating System:	Workstation: Windows 10 Pro or greater Server: Windows Server 2016 or greater
Memory (RAM):	2GB (8GB+ Preferred)
Hard Drive Space:	400MB
Additional:	Microsoft .NET 8.0 Framework; Inbound/Outbound Port 443 (HTTPS) access

The QT9 Data Sync will interface with the following database types using the specified customer-installed drivers below:

Database	Driver
SQL Server (2016 or higher)	SQLNCLI -Included in the software
Microsoft Access 2007/2010/2013	Ace.OleDB 12.0 (64-bit)

Required Accounts/Access

The following will be needed to set up and use the QT9 Data Sync application:

- **Local Database-** Username, Password, Server Location (IP or Host), Catalog/Database Name
 - This user only needs read privileges to the local database
 - A valid QT9 license key will be required to activate Data Sync
- **Access to install software and setup/run a scheduled task on the host machine**
 - A scheduled task will need to be set up on the local machine to trigger the periodic sync operations.
 - A user account with batch job rights will be required

Local Data

The QT9 Data Sync is set up to perform one-way syncing from your local database to your QT9 QMS Web system. The application expects that the local data for each link/sync type will come from one single table or view of the corresponding local data.

It's most likely the case that result sets from some ERP systems will include data that you may not need or want to be included in your QT9 installation. Please have your data views/tables ready and reviewed for accuracy prior to the installation.

The following are the current fields and their corresponding data types available for sync. The * indicates a required field.

Customers

Field	Data Type
* Customer Name	(nvarchar 200)
Main Contact	(nvarchar 255) (recommended for portal use)
Email Address	(nvarchar 255) (recommended for portal use)
Phone Number	(nvarchar 20)
Fax Number	(nvarchar 20)
Inactive	(bool/bit) (recommended)
Customer Number	(nvarchar 255)
* Remote ID	(nvarchar 255) -unique identifier used in your local database

Suppliers

Field	Data Type
* Supplier Name	(nvarchar 255)
Main Contact	(nvarchar 255) (recommended for portal use)
Email Address	(nvarchar 255) (recommended for portal use)
Phone Number	(nvarchar 20)
Fax Number	(nvarchar 20)
Inactive	(bool/bit) (recommended)
Supplier Category	(nvarchar 50) (per current database)
Supplier Number	(nvarchar 255)
* Remote ID	(nvarchar 255) - unique identifier used in your local database

Products

Field	Data Type
* Product Name	(nvarchar 255)
* Part Number	(nvarchar 50)
Description	(nvarchar(max))
Cost	(numeric 18,3)
Inactive	(bool/bit) (recommended)
Is Deleted	(bool/bit)
Part Type	(nvarchar 200)
* Category	(nvarchar 50)
* Remote ID	(nvarchar 50) - unique identifier used in your local database