

CurrentWare SQL Server Configuration Guide

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1. SQL Server System Requirement

This section describes the minimum hardware and software requirements to install and run SQL Server on your Windows operating system.

Component	Requirements
Memory	Minimum: <ul style="list-style-type: none"> Express Editions: 512 MB All other editions: 1 GB Recommended: <ul style="list-style-type: none"> Express Editions: 8 GB All other editions: At least 8 GB. Should be increased as database size increases to ensure optimal performance.
Processor	Minimum: x64 Processor: 1.4 GHz Recommended: 2.0 GHz or faster Type: x64 Processor: AMD Opteron, AMD Athlon 64, Intel Xeon with Intel EM64T support, Intel Pentium IV with EM64T support
Hard Disk	Disk space requirements will vary with the SQL Server components installed. A minimum of 6 GB of available hard-disk space is required.

Download link for Microsoft SQL Server:

<https://www.microsoft.com/en-ca/sql-server/sql-server-downloads>

SQL Server Compatibility with the CurrentWare Server

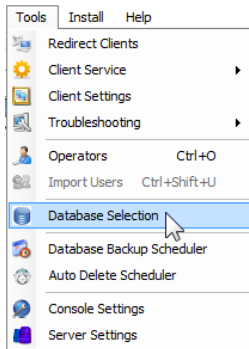
The CurrentWare Server is compatible with the following SQL Servers:

SQL Server	Editions
<ul style="list-style-type: none"> SQL Server 2008 SQL Server 2008 R2 SQL Server 2012 SQL Server 2014 SQL Server 2016 SQL Server 2017 	<ul style="list-style-type: none"> Express Standard Enterprise

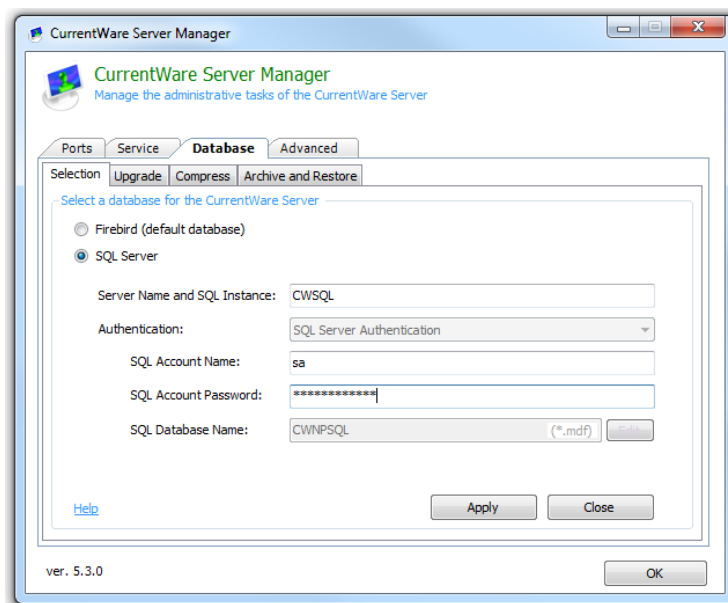
2. Connecting CurrentWare to your SQL server

This section provides instructions for switching your CurrentWare database from the default Firebird database to a SQL Server database.

1. Open the CurrentWare Console.
2. Select *Tools > Database Selection*.



3. This will bring up the CurrentWare Server Manager.
4. Select *Database > Selection > SQL Server*.
5. Enter your SQL Server details:



- SQL Server name and Instance
- Authentication:
 - i. For workgroup, SQL Server Authentication is required.
 - ii. For Domain, you can choose between SQL Server Authentication or Windows Authentication.
- Account name and password.

6. Click Apply.
7. A new SQL database called *CWNPSQL.mdf* will be created on your SQL Server.
8. (Optional): A prompt will appear to give you a choice to migrate your existing Firebird database to the new SQL database.

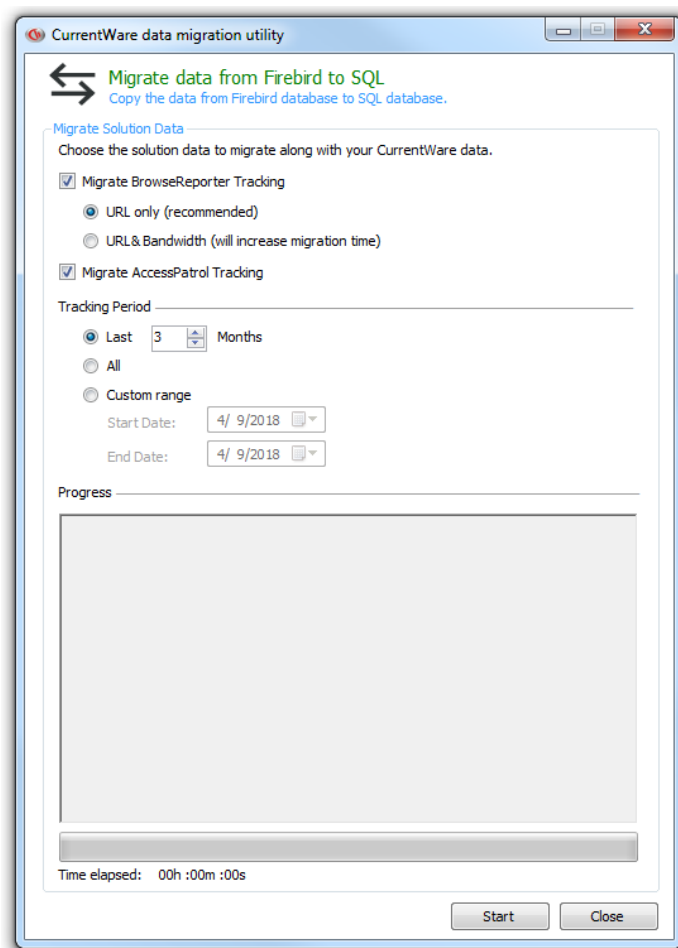
Migrating your Existing CurrentWare Data from Firebird to SQL Server

The data migration utility is presented after connecting your CurrentWare Server to a new SQL Server database.

File location: `\Program Files(x86)\CurrentWare\cwServer\CWDBMigration.exe`

The data migration utility will migrate all of the CurrentWare data from the Firebird to the SQL database. The following data can be included or excluded from the migration:

1. BrowseReporter Tracking Data: URL, Application and Bandwidth
 - Note: Including bandwidth data will increase the migration time significantly
2. AccessPatrol Tracking Data

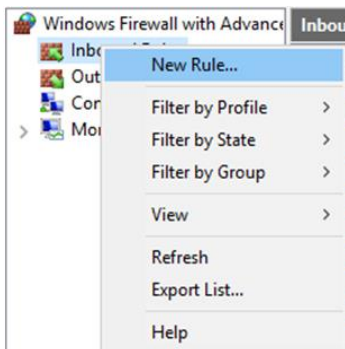


3. Troubleshooting SQL Server Connection Issues

If the CurrentWare Server is unable to connect to the SQL server, you may need to configure the Windows Firewall and SQL Server Configuration Manager to allow SQL Server access.

1. Add the `sqlsvr.exe` into Window's Firewall Inbound Rule list

3. Go to *Control Panel > System and Security > Windows Firewall > Advanced Settings*
4. Right click on Inbound Rule and select *New Rule...*



5. For Rule Type, select *Program* and click Next
6. For Program, browse to your SQL Server installed path and select `sqlservr.exe` and click Open.
7. For Action, select *Allow the connection* and click Next.
8. For Profile, leave all 3 profiles checked.
9. Enter the name as "*CurrentWare SQL*" and click Finish.

2. Add port 1433 (TCP) and port 1434 (UDP) into Window's Firewall Inbound Rule list.

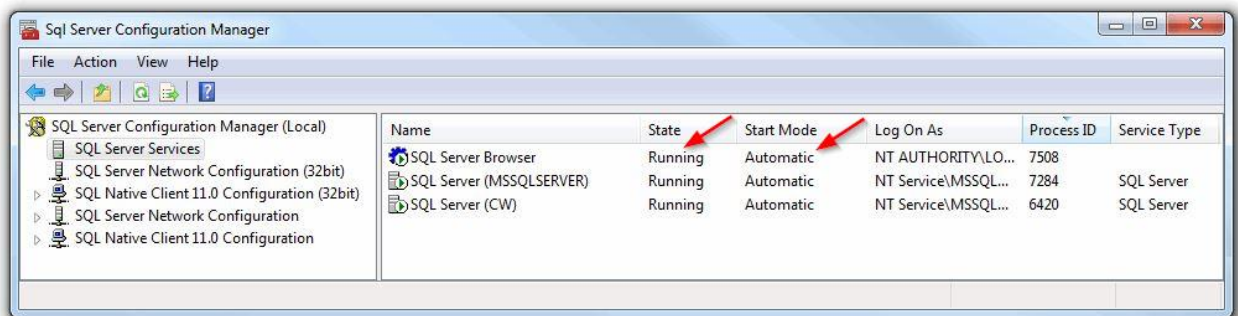
1. Go to *Control Panel\System and Security\Windows Firewall\Advanced Settings*
2. Right click on Inbound Rule and select *New Rule...*
3. For Rule Type, select *Port* and click Next
4. For Protocol and Ports, select *TCP* and type in *1433* for the specific local ports.
5. For Action, select *Allow the connection* and click Next.
6. For Profile, leave all 3 profiles checked.
7. Enter the name as "*CurrentWare TCP for SQL*" and click Finish.
8. Repeat steps 2 to 7: select *UDP* instead as the protocol and name it "*CurrentWare UDP for SQL*"

Summary of the Firewall Policies on your SQL Server

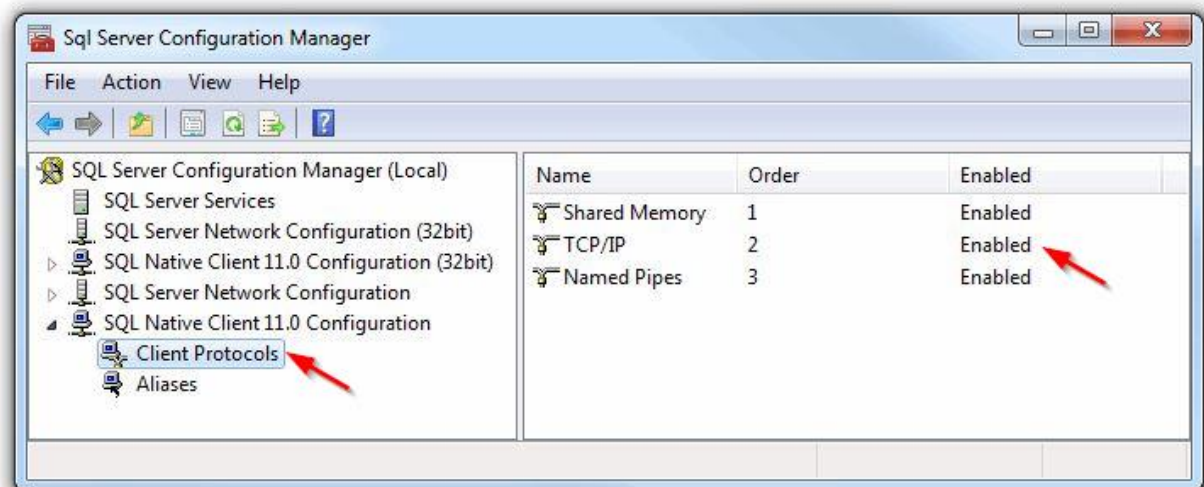
Rule Type	Application/Port	Action	Profile
Inbound Rule > Program	sqlservr.exe from SQL server installation path	Allow	Domain, private, Public
Inbound Rule > Port	TCP 1433	Allow	Domain, private, Public
Inbound Rule > Port	UDP 1434	Allow	Domain, private, Public

3. SQL Server Configuration Manager Service and TCP/IP Settings

1. Open the *SQL Server Configuration Manager*
2. Ensure that the *SQL Server Browser* service is running and the start mode is set to automatic

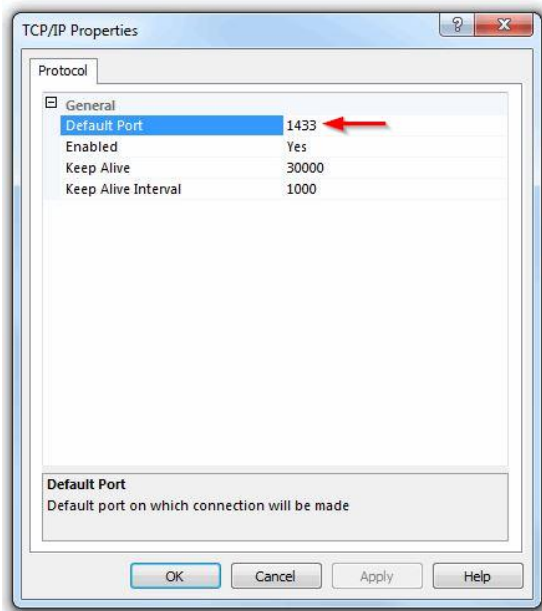


3. Under *SQL Native Client Configuration > Client Protocols*, ensure *TCP/IP* is enabled

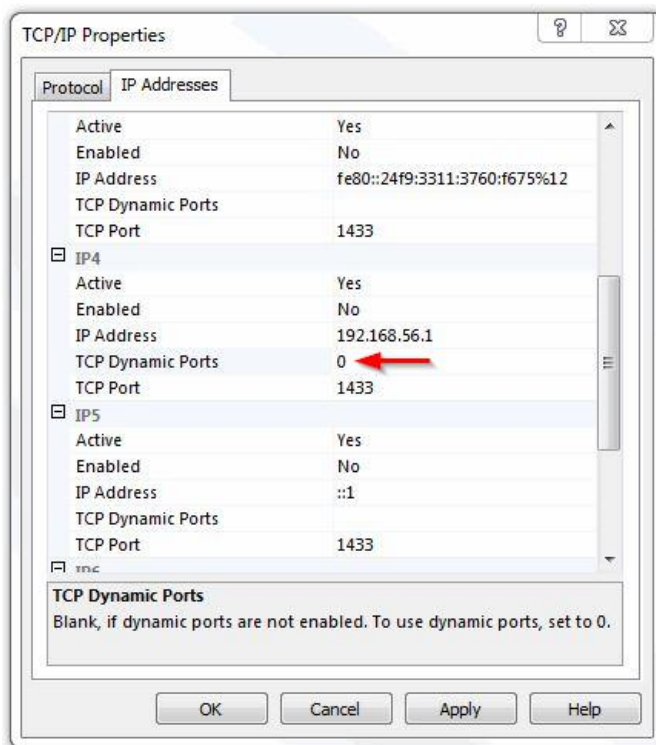


4. Right click on *TCP/IP* and select *Properties*.

5. Ensure the *Default Port* is 1433



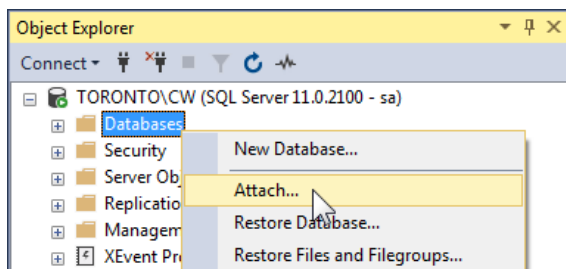
6. Under *SQL Server Network Configuration > Protocols for MSSQLSERVER*, right click on *TCP/IP* and select *Properties*
7. Click on the IP addresses tab and ensure the *TCP Dynamic Ports* is 0



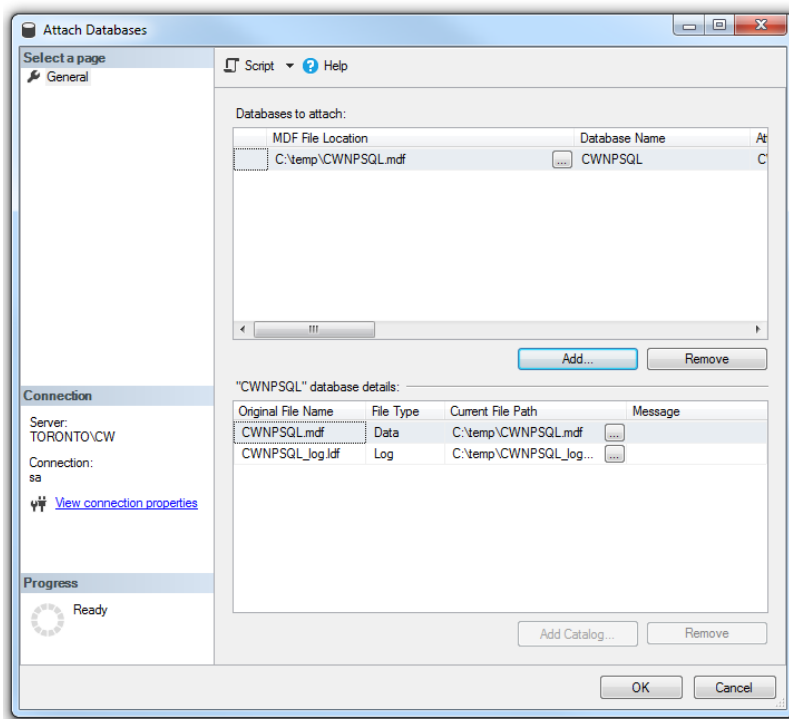
4. Attaching the CurrentWare SQL database to a SQL Server

When moving the CurrentWare SQL database from a SQL server to another server, the CurrentWare SQL database will need to be attached to the new SQL server. The CurrentWare SQL databases are called CWNPSQL.mdf and CWNPSQL_log.ldf.

1. Open the SQL Server Enterprise Manager or SQL Server Management Studio.
2. Enter your SQL login credentials
3. Expand the database tree view. Ensure a CWNPSQL does not exist on this SQL Server instance
4. Right click on Databases and select *Attach...*



5. Click on the *Add* button and browse to the *CWNPSQL.mdf*



6. Click OK to add the CWNPSQL database to your SQL Server instance.

5. Port Forward Settings for SQL Server

Port forwarding rules must be configured if you have CurrentWare connecting from outside your LAN. Ensure the following ports are being forwarded from your network router.

Port Forwarding Rules for the SQL Server

Port	Protocol	Destination IP address
1433	TCP and UDP	SQL Server
1434	TCP and UDP	SQL Server
8990-8994	TCP and UDP	CurrentWare Server

Connecting remote CurrentWare Clients from outside your network

If you have any remote clients connecting over the Internet to the CurrentWare Server, you will need to configure your router to forward the SQL ports to the SQL Server and the CurrentWare ports to the CurrentWare Server.

For more details, visit this page for detailed instructions: <http://www.currentware.com/faqs/port-forward/>

6. Connect multiple CurrentWare Servers to the same SQL Server

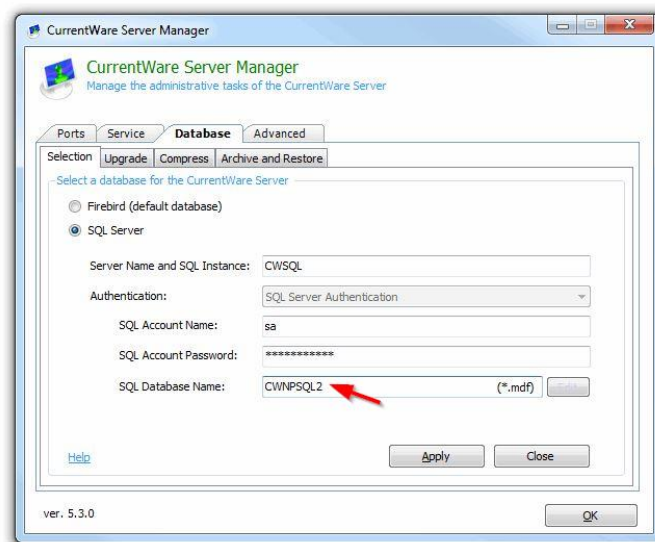
On some networks, an administrator may choose to install multiple CurrentWare Servers. Below are two options for connecting multiple CurrentWare Servers to one common SQL server.

1. Create multiple SQL databases

Access the CurrentWare Server Manager from the CurrentWare Console by going to *Tools > Database Selection*.

Give each CurrentWare SQL database a different name.

During the initial SQL Server connection, modify the default SQL database name. A new SQL database will be created with the modified name.



2. Install multiple SQL Instances

Access the CurrentWare Server Manager from the CurrentWare Console by going to *Tools > Database Selection*.

Before connecting the CurrentWare Server to your SQL Server, install a new SQL Server with a new instance. Use a different instance name for each CurrentWare Server.

