

CityReplicator Configuration

This powerful tool from Noratek is designed to **replicate field inspection data from CityReporter** to a local MS SQL Server database at your site. CityReplicator empowers your IT staff to:

- Configure the data tables in any way
- Control the data replication schedule
- Integrate the data with your in-house apps (reporting tools, permit systems, GIS systems, work order systems, asset management systems, and more)

A. REQUIREMENTS

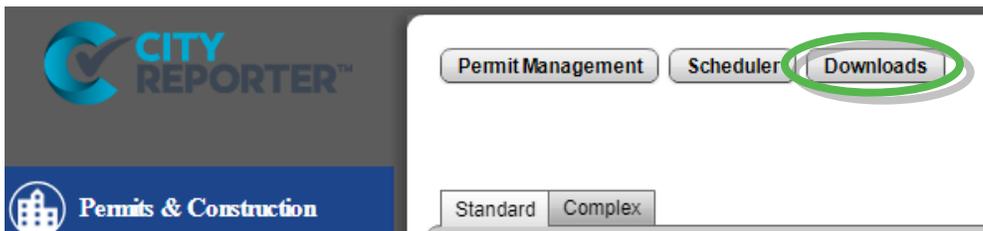
- A local database on the SQL server named **“cityreplicator”**
- A user **“Noratek”** that only has access to the “cityreplicator” database with owner permissions
- Authentication type set to **SQL Server Authentication**
- **TLS 1.2** enabled on the Windows server

B. HOW TO CONFIGURE CITYREPLICATOR

Please note: we recommend completing all steps while logged in as the server administrator.

1. Download and install the latest version of the CityReplicator installer

- Go to <https://www.cityinspectionsoftware.com/>, click on either the US or CA login at the top right, and log in to CityReporter on the web.
- Click the **Downloads** button at the top of the screen



- **Download** the CityReplicator installer to your server

Downloads			
Filename	Description	Uploaded	
bb_clean.exe	BlackBerry Uninstall	Sunday, February 20, 2011	Download
CityReporter_WinInst.exe	CityReporter Windows 7/8/10 Installer v5.5.3	Tuesday, January 03, 2017	Download
cityReplicatorInstallerVersion2014.01.31.exe	cityReplicator Installer Version 2014.01.31	Friday, January 20, 2017	Download

- Double-click the installer file and open CityReplicator when installation is complete

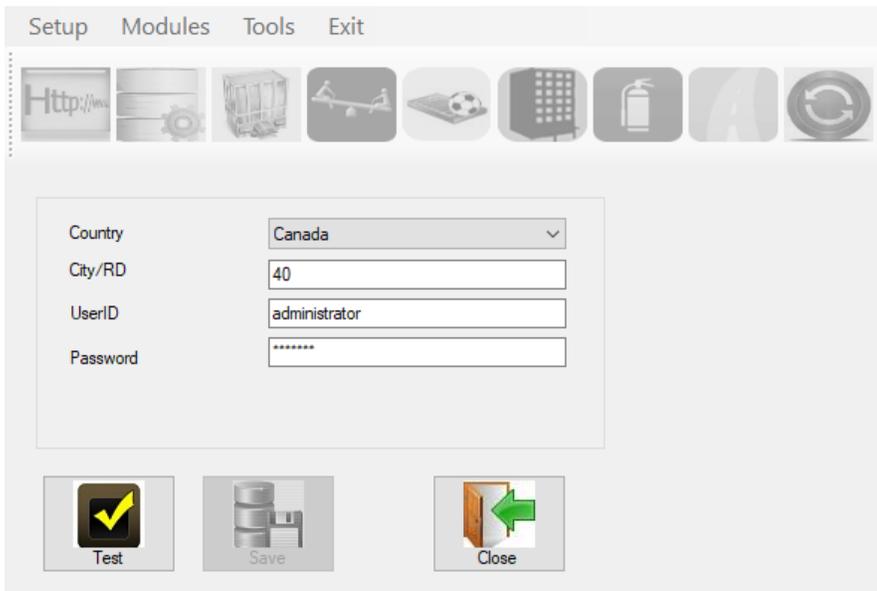
The installer keeps the current XML configuration if CityReplicator was previously installed. Password storage in the XML files is encrypted.

2. Configure web services

- In the **Setup** menu, select **Web Services**



- Enter the **Country**, **City Code**, **User ID**, and **Password** for the CityReporter account



- Click the **Test** button and then **Save** if successful
- **Close** the screen

Please note: once the User ID and Password are set in CityReplicator, do not change them in CityReporter

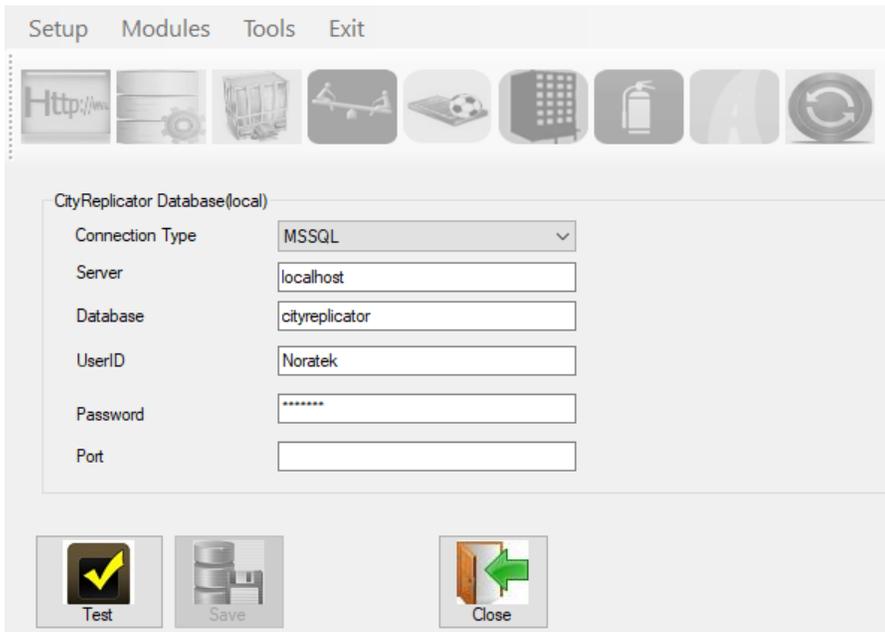
3. Configure SQL settings

- In the **Setup** menu, select **Settings**
- Select the **Modules to Replicate** on the right side of the screen

Modules to Replicate

- Building Reporter
- Park Reporter
- Facility Reporter
- Fire Reporter
- SportField Reporter
- Road Reporter

- Enter the **CityReplicator Database** info – **Server** path/name, **Database**, **UserID**, and **Password**



Setup Modules Tools Exit

CityReplicator Database(local)

Connection Type MSSQL

Server localhost

Database cityreplicator

UserID Noratek

Password *****

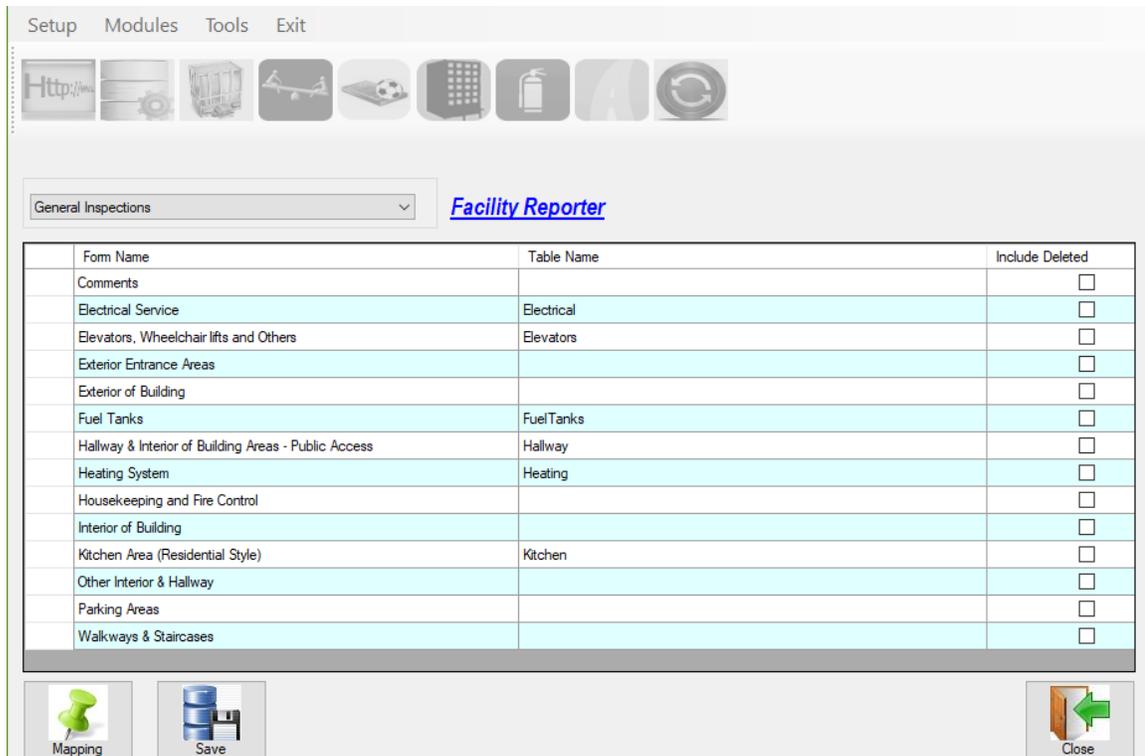
Port

Test Save Close

- Click the **Test** button and then **Save** if successful
- **Close** the screen

4. Map forms to tables

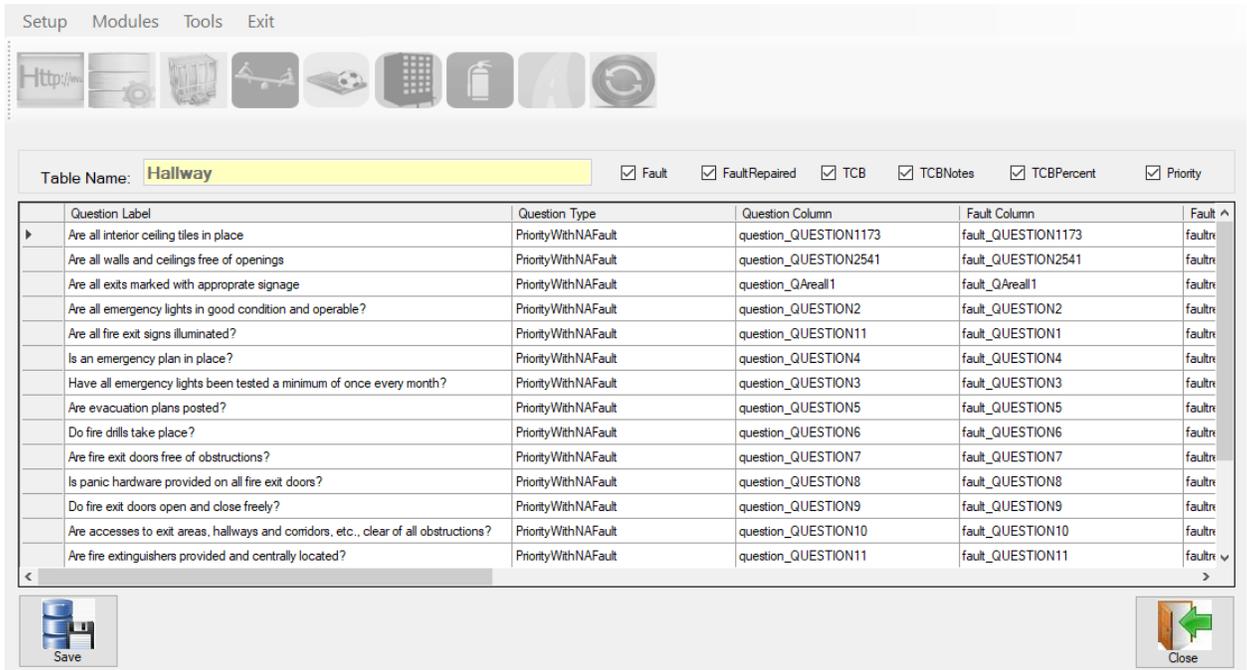
- In the **Modules** menu, select a module (e.g. Facility)
- Use the drop-down menu at the top to switch between available form groups



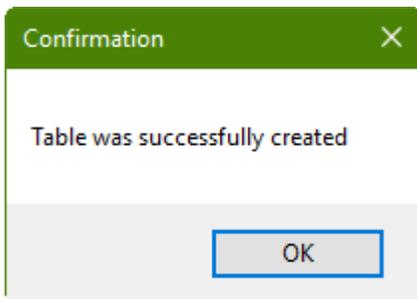
- Create each table by entering a **Table Name** for the form (inspection checklist)
 - Table Names must not contain spaces, commas, apostrophes, quotation marks, or any other special characters such as / # ' + -
- Check the “Include Deleted” option to map all questions in the form, including deleted ones
- Click the **Save** button after mapping each form
- Select the row for the table you just created and click the **Mapping** button at the bottom left
- Proceed to step 5 below, then **repeat steps 4 and 5** for each form you wish to map

5. Map questions to columns

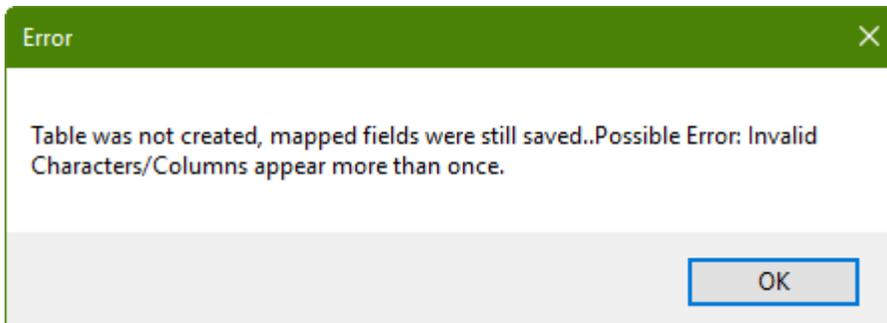
- On the question mapping screen, you can change the **Column Names** (e.g. Question Column)
 - Column Names must not contain spaces, commas, apostrophes, quotation marks, or any other special characters such as / # ' + -
- Uncheck the boxes for columns you don't want to include (e.g. Priority levels)



- Click the **Save** button to create a table in the SQL Server



- Two or more columns can't have the same name, otherwise an error will appear when you save:



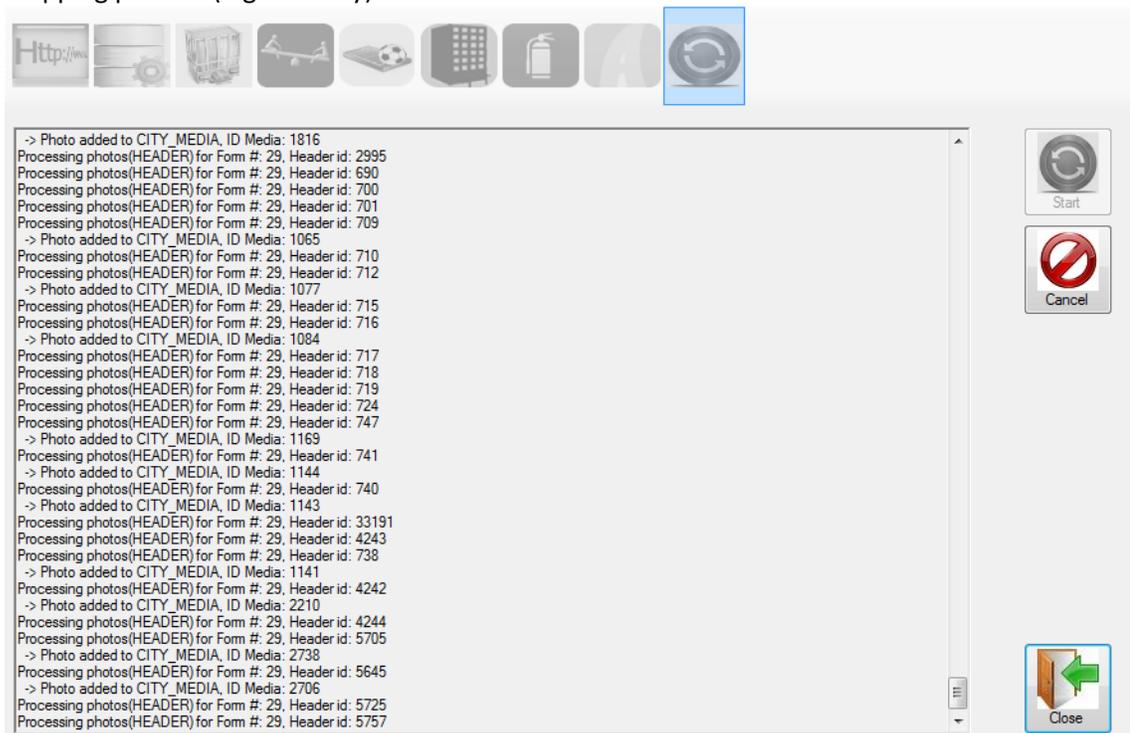
- **Close** the screen
- Go back to **step 4** to create a table for the next form
- **Close** the form mapping screen when done

6. Run the replication

- To run the replication process, click on the last icon at the top right, then click the **Start** button



- The replication dumps the data from Cityreporter into the tables previously created during the mapping process (e.g. Hallway)



- After the replication completes successfully, a log file is created in the folder containing CityReplicator – usually **C:\Program Files (x86)\CityReplicator**

7. Optional: Schedule a task for replication

- Schedule a Windows automated task on the server to run the replication on a regular basis, e.g. every night, or twice a day
- The **Add arguments** and **Start in** fields must be filled in even though they are labeled “optional”
 - Enter **r** in the **Add arguments** field
 - Enter the path to the folder containing CityReplicator in the **Start in** field – most likely **C:\Program Files (x86)\CityReplicator**

Please note: If CityReplicator is already open, the task will not be able to launch the program. Make sure to exit after updating the configuration or running the replication manually.

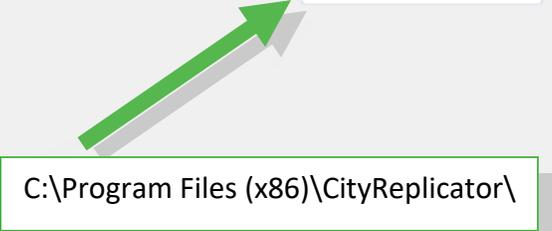
You must specify what action this task will perform.

Action: Start a program

Settings

Program/script:
"C:\Program Files (x86)\CityReplicator\cityreplicator.exe" Browse...

Add arguments (optional): r

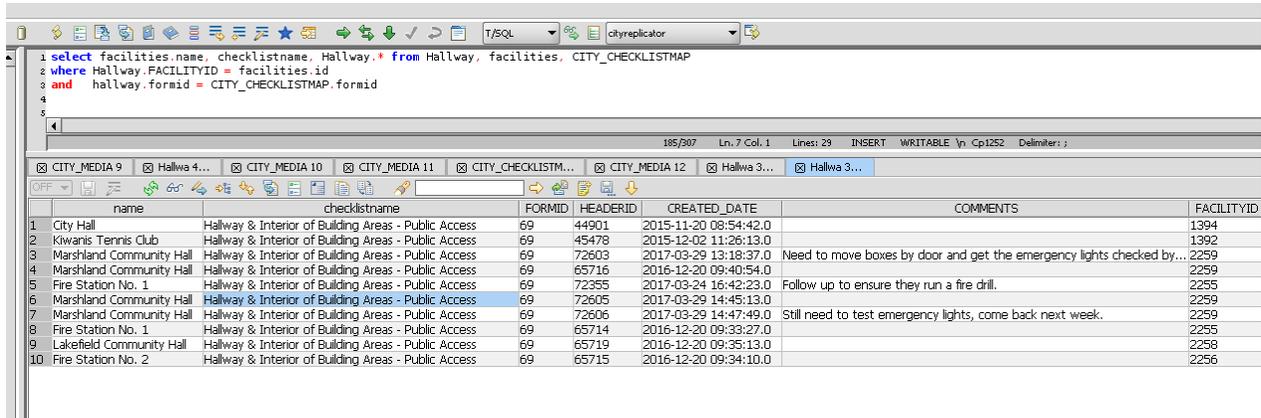
Start in (optional): files (x86)\CityReplicator\


OK Cancel

C. HOW TO VIEW THE DATA

Write SQL statements to view the data on the SQL server, e.g. to select all Hallway inspections:

```
select facilities.name, checklistname, Hallway.* from Hallway,
facilities, CITY_CHECKLISTMAP
where Hallway.FACILITYID = facilities.id
and hallway.formid = CITY_CHECKLISTMAP.formid
```



The screenshot shows a SQL query editor window with the following query:

```
1 select facilities.name, checklistname, Hallway.* from Hallway, facilities, CITY_CHECKLISTMAP
2 where Hallway.FACILITYID = facilities.id
3 and hallway.formid = CITY_CHECKLISTMAP.formid
4
5
```

The results are displayed in a table with the following columns: name, checklistname, FORMID, HEADERID, CREATED_DATE, COMMENTS, and FACILITYID. The table contains 10 rows of data.

	name	checklistname	FORMID	HEADERID	CREATED_DATE	COMMENTS	FACILITYID
1	City Hall	Hallway & Interior of Building Areas - Public Access	69	44901	2015-11-20 08:54:42.0		1394
2	Kiwanis Tennis Club	Hallway & Interior of Building Areas - Public Access	69	45478	2015-12-02 11:26:13.0		1392
3	Marshland Community Hall	Hallway & Interior of Building Areas - Public Access	69	72603	2017-03-29 13:18:37.0	Need to move boxes by door and get the emergency lights checked by...	2259
4	Marshland Community Hall	Hallway & Interior of Building Areas - Public Access	69	65716	2016-12-20 09:40:54.0		2259
5	Fire Station No. 1	Hallway & Interior of Building Areas - Public Access	69	72355	2017-03-24 16:42:23.0	Follow up to ensure they run a fire drill.	2255
6	Marshland Community Hall	Hallway & Interior of Building Areas - Public Access	69	72605	2017-03-29 14:45:13.0		2259
7	Marshland Community Hall	Hallway & Interior of Building Areas - Public Access	69	72606	2017-03-29 14:47:49.0	Still need to test emergency lights, come back next week.	2259
8	Fire Station No. 1	Hallway & Interior of Building Areas - Public Access	69	65714	2016-12-20 09:33:27.0		2255
9	Lakefield Community Hall	Hallway & Interior of Building Areas - Public Access	69	65719	2016-12-20 09:35:13.0		2258
10	Fire Station No. 2	Hallway & Interior of Building Areas - Public Access	69	65715	2016-12-20 09:34:10.0		2256