OPC Bridge Update Guide

Veolia Water Technologies

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1 Upgrading the OPC-Bridge

To upgrade the OPC-bridge, follow the following steps.

The new OPC-bridge installation program can be downloaded from the The download page

1.1 Stop the current running OPC-bridge

Make a backup of the configuration files found in: %PROGRAMDATA%\KrugerOpcBridge

Stop the OPC-bridge by going to the Windows Services administration. From there you can find the service in the list and then stop it. The service name is: KrugerOpcBridgeXXX, where XXX is a number indicating the version of the installed OPC-bridge. Set the startup-type to "Disabled" to prevent the old OPC-bridge installation from starting up after a restart.

1.2 Update the installation

Run the installation program you have downloaded with administrative rights. This can be done by right-clicking on the installation program and selecting the "Run as administrator" option. The installation can take a few minutes to complete. Please be careful to select a new path to install the new program files, but keep the path to the configuration files the same. Go to http://localhost:8088. Using a recent and up-to-date internet browser and checking that the OPC-bridge is started, and that it performs as expected, please note that the data transfer point, startup as "red", and typically becomes "green" within the interval specified for each data point - typically 120 seconds.

1.3 Post update

When it is verified that the upgrade is ok and the data flow is as expected, removal of the old installation is recommended. This is done by going to the windows "Install/uninstall programs", and uninstall the old installation.

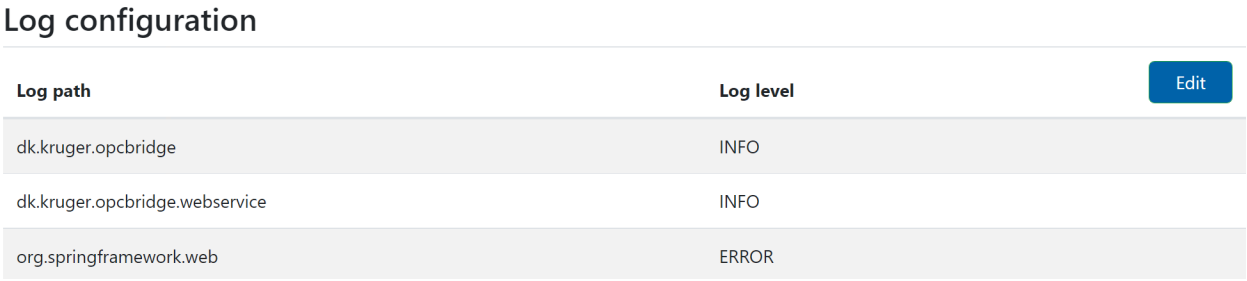
1.4 Rollback

If any issues, og problems are found on the new installation, a rollback is possible by removing the new installation, and enabling the old service to start automatically again.

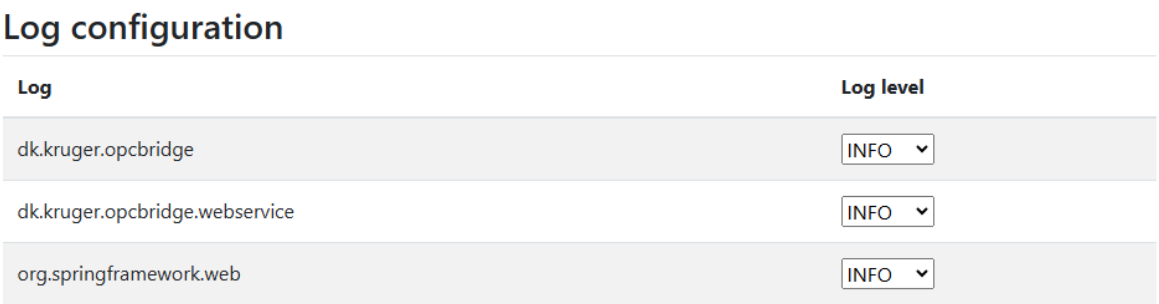
2 Troubleshooting

2.1 Logging

Log files can be found in "%PROGRAMDATA%\KrugerOpcBridge", and will be rotated for every restart of the service. Logging level can be changed by clicking on the wrench, and changing the settings under "Log configuration". When the OPC-Bridge is uninstalled or updated, the logfiles and the config files are not removed.

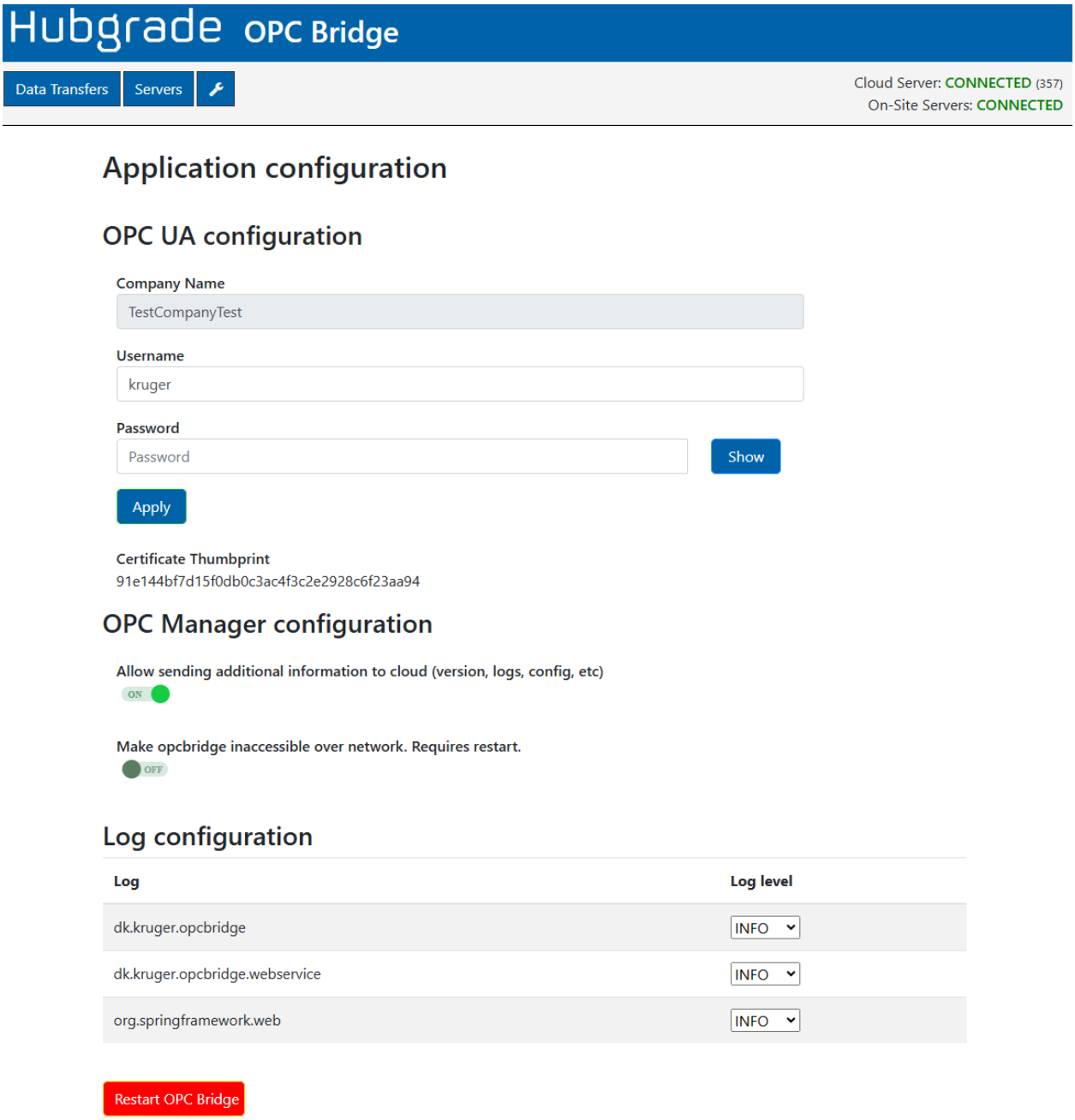


From version 357, it looks like this.



2.2 Restart of OPC-Bridge (from version 357)

To restart the OPC-Bridge from inside the opc-bridge interface, go to the Application configuration. At the bottom of the page, click on the RED "Restart OPC Brigde" button to restart the OPC-Bridge.



2.3 Start/stop of Windows service (any version before 357)

To stop and start the OPC-Bridge, go to the Windows service administration, to stop and start the service. The service name is : KrugerOpcBridgeZZZ, where ZZZ is a number, indicating the version of the OPC-bridge.

2.4 CSV file format

sourceNodeId	targetNodeId	samplingInterval	mode
nsu=http://kruger.dk/STAR/UaNodes;s=kruger/miltest2/COUNT_MINUTES_OF_DAY	nsu=http://kruger.dk/STAR/UaNodes;s=kruger/miltest2/WWTP.OPC-BRIDGE.TESTDATA.NUMINUT	300000	Subscription

File format

The import/export file has a header with the names of each field, followed by a line for each “Data transfer” item.Fields are separated by semicolons.

The header is fixed should look like this:

sourceNodeId;targetNodeId;samplingInterval;mode

Each data transfer line consist om the a field corresponding to the header, and could look like this:

```
"nsu=http://kruger.dk/STAR/UaNodes;s=kruger/miltest2/COUNT_MINUTES_OF_DAY";
"nsu=http://kruger.dk/STAR/UaNodes;s=kruger/miltest2/WWTP.OPC-BRIDGE.TESTDATA.NUMINUT";
↪120000;Periodic"
```

Field description sourceNodeId: The string from where the data is moved from.

targetNodeId: The string to where the data is moved to.

samplingInterval: The time in seconds between the input/output data is moved from/to OPC server. ie. how often the data is transferred.

Mode: The mode used to transfer the data transfer. Possible options are “Periodic” or “Subscription” Periodic: Transfers the data each interval, regardless of any changes of the data. Subscription: Transfers the data each interval, if there is a change in the data value.

If in doubt, use the Periodic option, to force a new data value at each interval.

3 Contact

If you need to contact Veolia Water Tech with technical question or issues on Hubgrade Wastewater Plant Performance or Hubgrade Sewer Performance, you can do so by sending an email to serviceteam@veolia.com. This will create an issue in our ticket management system.