
Citect SCADA 2018 R2 running as a service with OFS 3.62

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1. Prerequisites

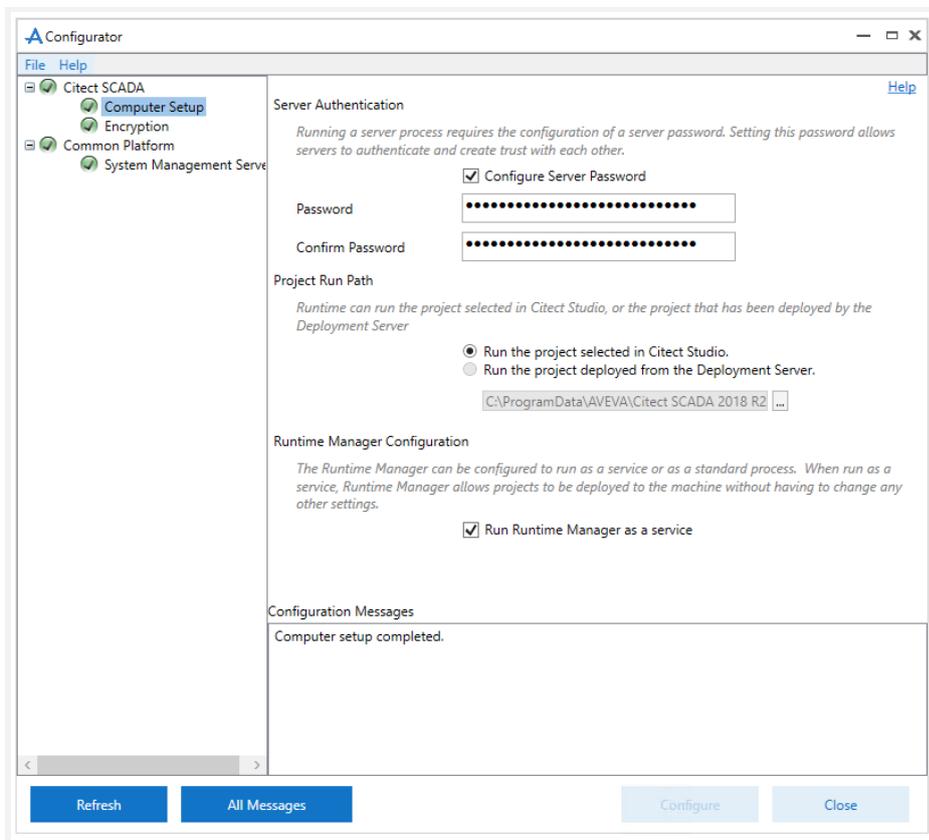
The main prerequisite is to have Citect SCADA 2018 R2 and OFS 3.62 installed on the machine before the following steps. To configure Citect SCADA 2018 R2 in secure mode, it is required to run it as a service. While running Citect SCADA 2018 R2 as a service, two scenarios are possible to establish connection to OPC Factory Server (OFS). This Whitepaper will cover the following two scenarios:

- 1. Citect running as a Service connecting to OFS running in desktop mode
- 2. Citect running as a Service connecting to OFS running as Service

But before let's introduce the Citect SCADA 2018 R2 configuration setup for the Encryption and Service mode.

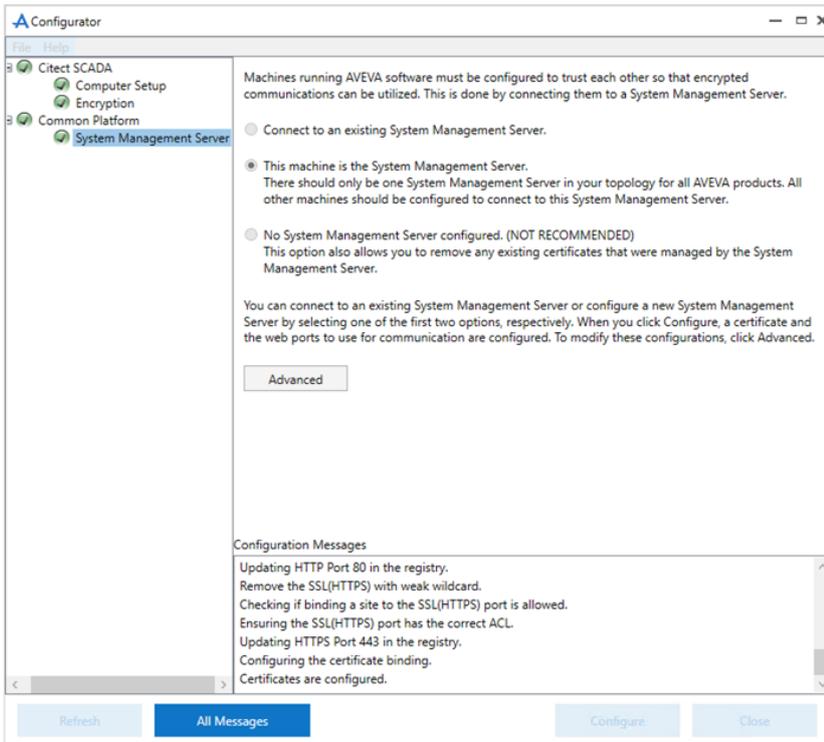
2. Running as a Service (RaaS) with Encryption

- 1- Setup Citect SCADA 2018 R2 in the Configurator tool. Launch the **Configurator**.
- 2- Setup the Server Password in the configurator in the Computer Setup section too.
- 3- To run Citect as a Service in Citect SCADA 2018 R2 you need to tick **Run Runtime Manager as a service** option in the Computer Setup section and click **Configure**.



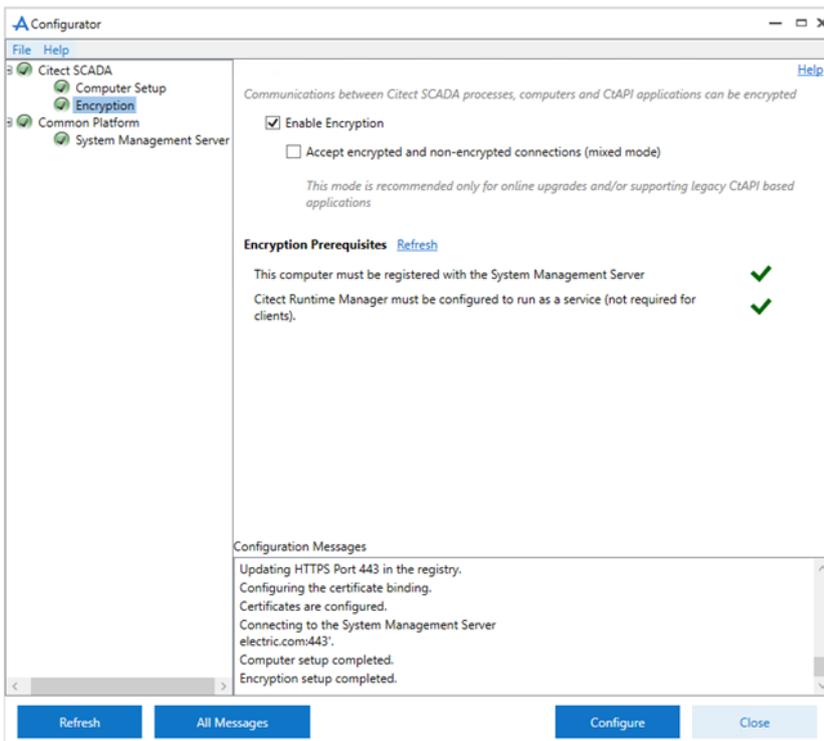
Caption – Computer setup setting in Configurator: Run Runtime Manager as a service

4- Configure your System Management Server based on your requirements.



Caption – Configure the System Management Server section

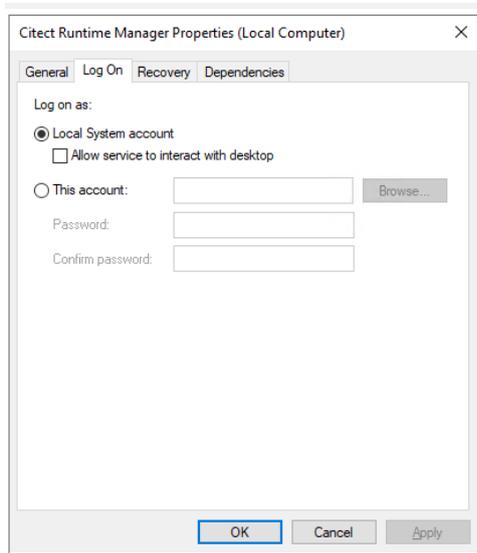
5- Configure the encryption mode in the Encryption section.



Caption – Configure the Encryption in the Configurator

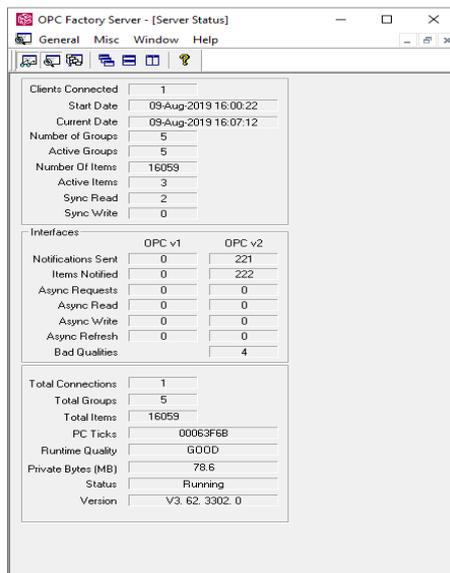
3. Citect RaaS connecting to OFS desktop mode

- 1- Use the default service settings for Citect Runtime Manager service – Log on as **SYSTEM**



Caption – Service settings for Citect Runtime Manager service

- 2- Run a Citect project using OFSOPC driver
- 3- Citect service launches OFS in desktop mode. Please note that OFS is using the current logged in Windows User

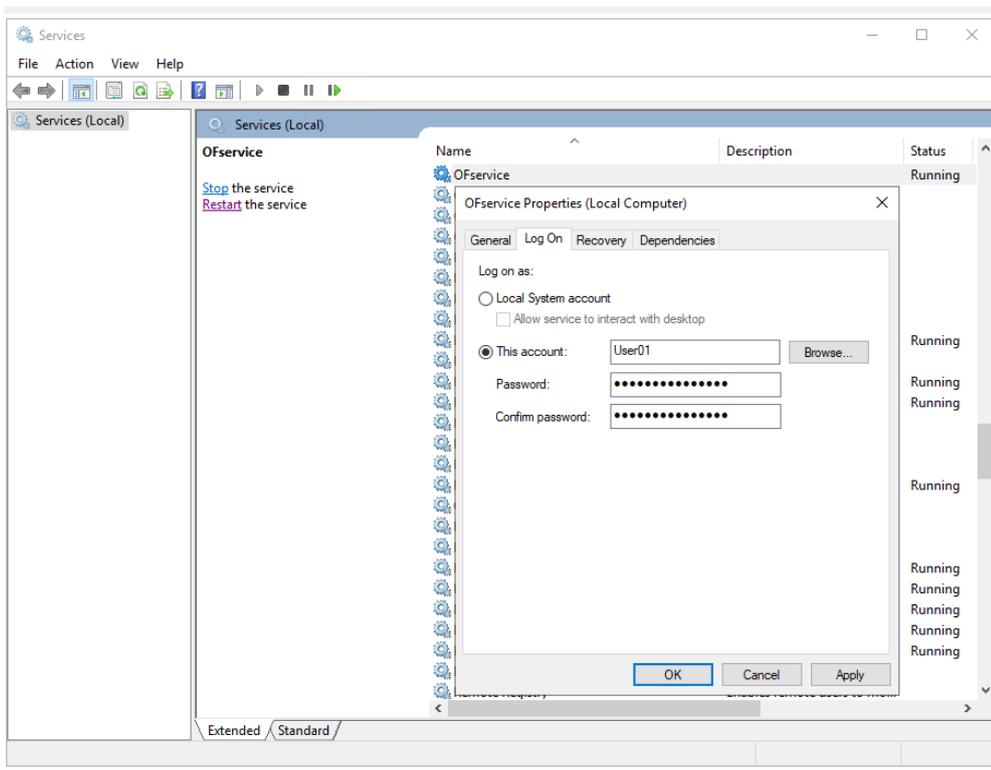


Caption – OFS desktop OPC Factory Server window

Citect is now running as a service, but OFS is running as a desktop application in interactive mode. This setup works fine while you stay logged in to Windows. If you logout of Windows then OFS will shutdown and the communication will stop until you login to Windows again. To solve this problem, use both Citect and OFS RaaS.

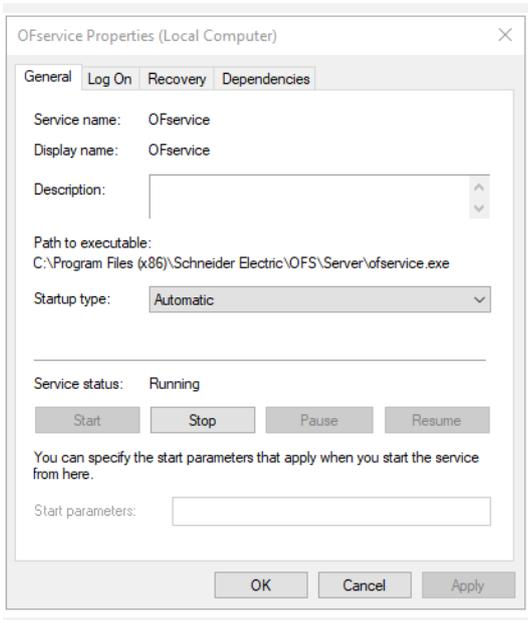
4. Citect and OFS both RaaS with same user

- 1- Select a local windows or domain user that will be used for COM communication between OFS and Citect when running as a service.
- 2- Setup OFS to run as a service by running “*ofsservice.bat*” located in *C:\Program Files (x86)\Schneider Electric\OFS\Server*. This will create a Windows service called OFservice.
- 3- Configure the Log On setting of the OFS Service to “This account” and set it to a domain user or local user



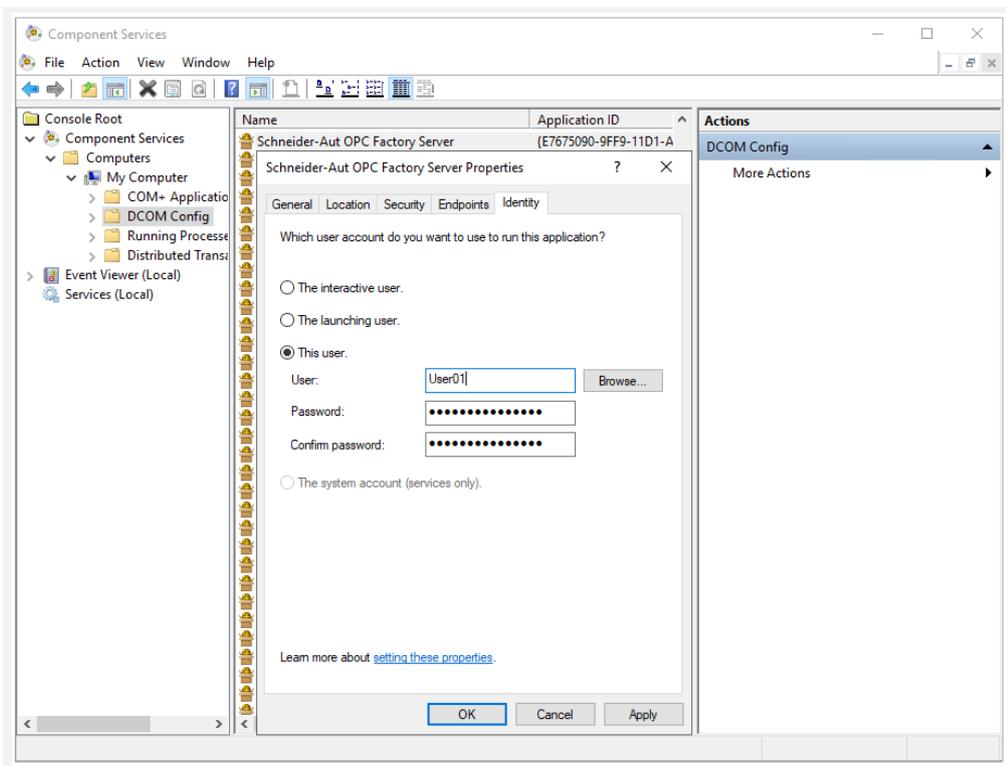
Caption – Service Log On settings for OFS service

4- Setup Automatic startup mode and start OFservice



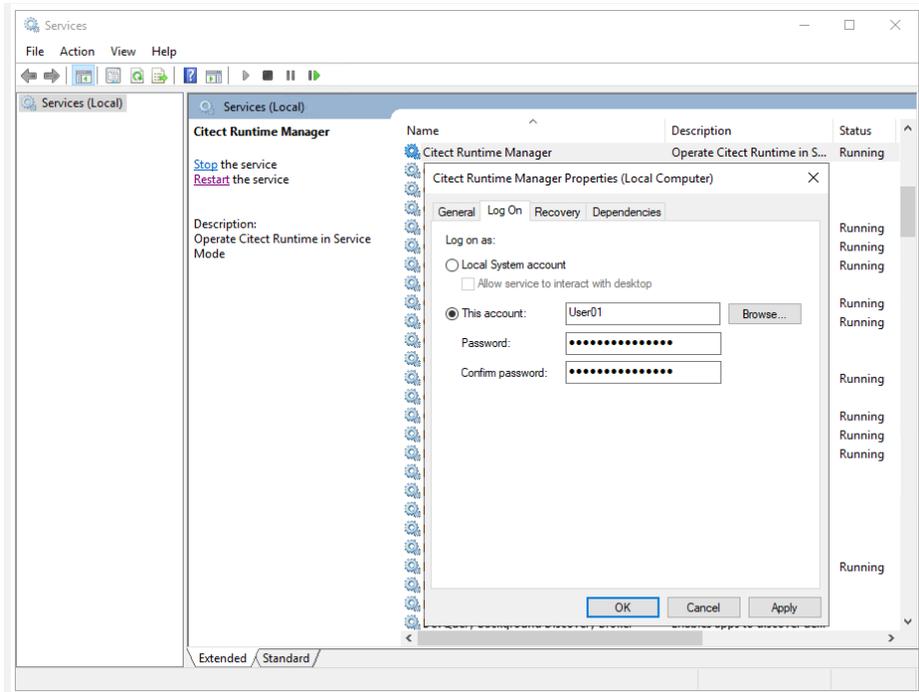
Caption - Service settings for OFS service

5- Go to DCOM Config in Component Services and set the Identity of the "Schneider-Aut OPC Factory Server" to "This User" and set it to the same domain user or local user



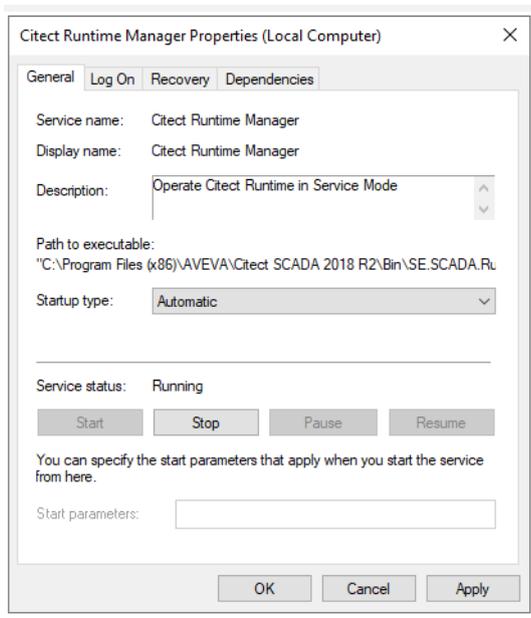
Caption – DCOM settings for OFS

- 6- Configure the Log On setting of the Citect Runtime Manager service to “This account” and set it to the same domain user or local user



Caption – Service Log On settings for Citect Runtime Manager service

- 7- Setup Automatic startup mode and start Citect Runtime Manager service



Caption - Service settings for Citect Runtime Manager service

- 8- Reboot the machine for DCOM changes to take effect.
- 9- Citect SCADA and OFS are running as a service



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