Configure encrypted opc-ua server from Phoenix Contact PlcNext PLC with Ignition

CODESYS North America

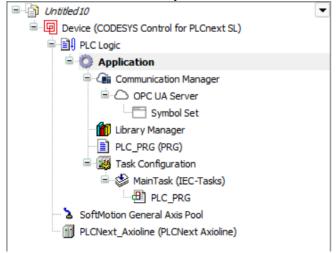
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Table of Contents

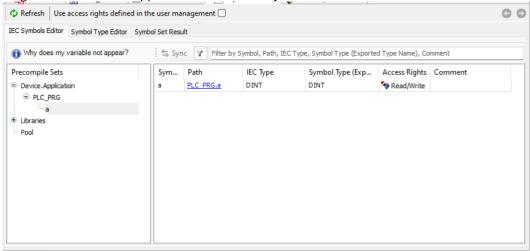
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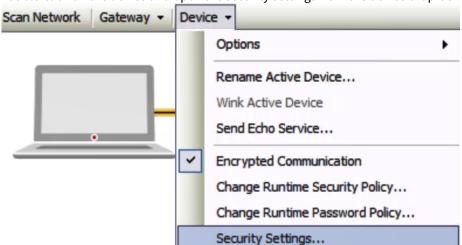
Description: this article describes the configuration details to set up encrypted OPC-UA

- 1. First add a communication manager object to project
- 2. Then add an OPC-UA server object to the communication manager



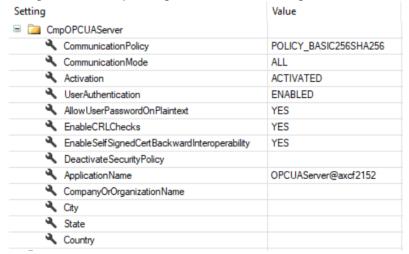
3. Drag variables from the application POUs to the symbol set



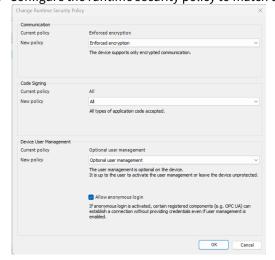


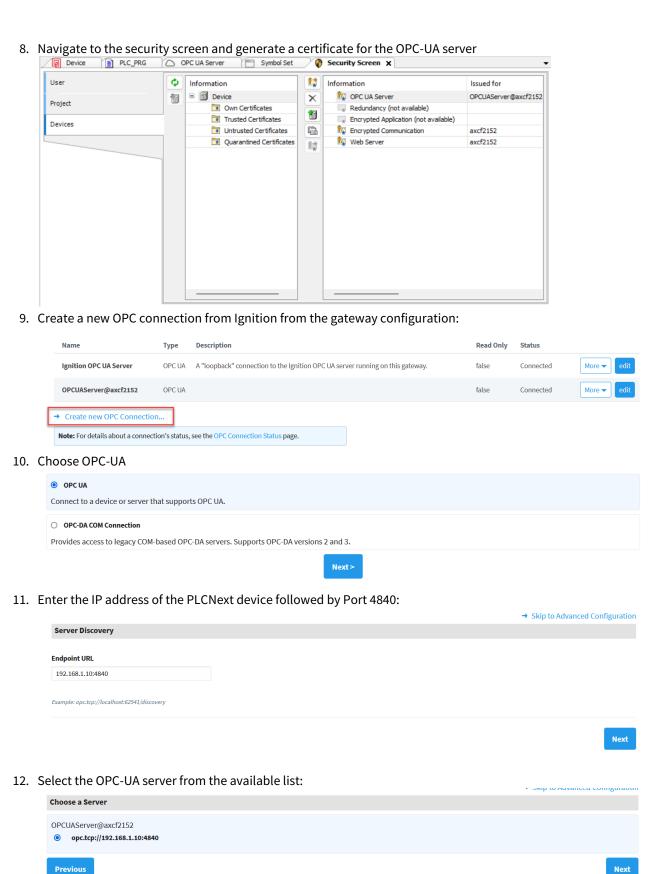
4. Double-click on the device and open the security settings from the device drop-down

5. Configure the security settings to match the following:



- 6. Open the "Change runtime security policy" settings from the device drop-down
- 7. Configure the runtime security policy to match the following:

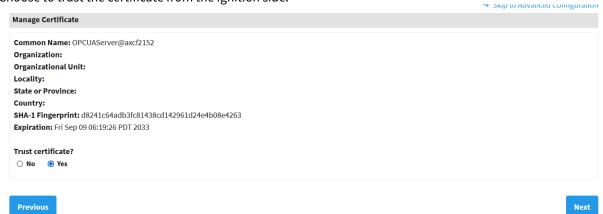




13. Choose the Basic256Sha256 policy with SignAndEncrypt mode selected:



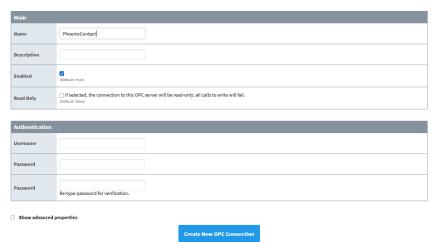
14. Choose to trust the certificate from the Ignition side:



15. Confirm the connection settings and click finish:



16. Enter a unique name and clear out the password field:



17. Click on create new OPC connection

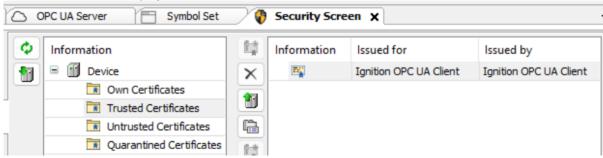
- 18. Now, you need to trust the certificate from the Codesys side
- 19. Open the security screen by double-clicking on the security icon



20. Drag the Ignition OPC client certificate from the quarantined certificates to the trusted certificates folder



21. The certificate will be displayed in the trusted certificates folder:



- 22. Login to the controller with the changes
- 23. Ignition will display a successful connection:

