



GENESIS64

OPC UA Discovery Server



APPLICATION NOTE

September 2013

Description: Guide to start the OPC UA Discovery Server in installation of GENESIS64

OS Requirement: Vista x64/ Windows 7 x64/ Windows 8 x64/ Windows Server 2008 x64/ Windows Server 2008 R2 x64/ Windows Server 2012

General Requirement: Installation of GENESIS64 or Hyper Historian standalone installation

Introduction

GENESIS64 supports connections to various OPC UA Servers in network. A part of the GENESIS64 installation is the OPC UA Discovery Server that helps to establish the connection to a local or a remote OPC UA server. The OPC UA Discovery Server is periodically checking all of the OPC UA Servers in network and exposes them in a browse-able fashion so that users do not need to manually type the address of the OPC UA Server into the Data Browser. For more details about OPC UA Servers please refer to the GENESIS64 Help documentation.

OPC UA Discovery Server

As it was written previously, the OPC UA Discovery Server's purpose is to provide "browse-ability" of the OPC UA Servers across the network. You **must** run the OPC UA Discovery Server on **each** computer where some OPC UA Server is running to make it available to browse in Data Browser. The main feature of OPC UA Discovery Server is Discover - the process by which OPC Unified Architecture Clients obtain information about OPC Unified Architecture Servers, including endpoint and security information.

Starting OPC UA Discovery Server

1. All computers where some OPC UA Server is running and the clients which are accessing them, should have the clock synchronized. This is necessary for UA to work. You can verify this by clicking on the time in the bottom right corner of the desktop and going to "change date and time settings."
2. In almost all cases the OPC UA Discovery server is started automatically and user can check this in Task Manager under Processes (Opc.Ua.DiscoveryServer.exe). If it happens that OPC UA Discovery server is not running please continue with point 3 otherwise all is set and you can proceed to point 5.
3. Open Services Microsoft Management console (Services.msc) and find the UA Local Discovery Server service. Start the service.
4. Click the Internet Time tab and verify it is synchronized. If it is not, you can do so here.

5. Now, your OPC UA Discovery Server is running and you can easily browse all OPC UA Servers on that computer from remote computers in network.

Note: There might be other requirements that have to be met for browsing the other servers such as certificates and permissions conformity.

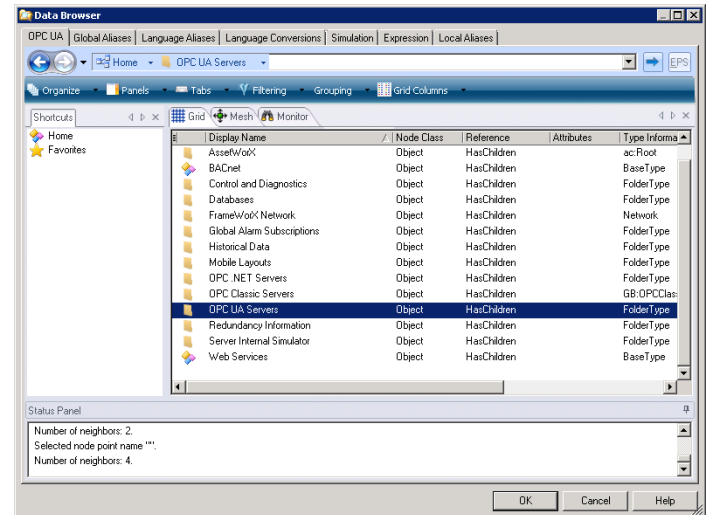


Figure 1 - OPC UA Server in the Data Browser