Prediktor APIS Historian Connector

Prediktor APIS Historian server

- Name: **PrediktorAPIS**
- Version: 1.0.1.1
- Protocol: Proprietary
- Interface: TCP/IP
- Runtime: .NET 4.8 (Windows)
- Configuration:
  - Devices / Protocols

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Overview

Communication Driver Information	
Driver name	Prediktor
Assembly Name	T.ProtocolDriver.PrediktorAPIS
Assembly Version	1.0.1.1
Available for Linux	False
Devices supported	N/A (Not Applicable)
Manufacturer	Prediktor
Protocol	Proprietary over TCP/IP
PC Requirements	Ethernet port

Prerequisites

The Prediktor APIS client libraries are not included in the FrameworX installation. Get them from your Prediktor APIS installation and copy them to the computer that runs FrameworX before you use this connector.

1. Install the APIS software supplied by Prediktor, or use a computer where it is already installed.
2. Copy the files listed below from the APIS installation to the FrameworX **Protocols** folder. In a default installation this is `C:\Program Files\Tatsoft\FrameworX\fx-10\Protocols`. Administrator rights are required to copy files into the installation folder.
3. Copy **OpcNetApi.Prediktor.dll** and **OpcNetApi.Com.Prediktor.dll** to the parent folder as well (`C:\Program Files\Tatsoft\FrameworX\fx-10`).
4. Restart the Designer and the runtime.

Prediktor APIS client libraries
ApisNetUtilities.dll
HiveNetApi.dll
HoneystoreNetApi.dll
OpcNetApi.Prediktor.dll
OpcNetApi.Com.Prediktor.dll
Prediktor.Log.dll

The connector is built with version 8.3.12.1 of these libraries.

> **NOTE**
>
> Without these files the connector is still listed in the Designer, but it cannot communicate with the APIS server.

Channel Configuration

Protocol Options

- **WriteToAllStations**: If checked, write to all servers (PrimaryStation and BackupStation)
- **AllItemsSameGroup**: If checked, add all items at the same group (reading and writing)

Node Configuration

Station Configuration

- Hive
  - **Server Name**: Database server name.
  - **Instance**: Server and Hub configured.
- Honeystore
  - **Server Name**: Database server name.
  - **Database Name**: Model database name.

Example:

Name	Node	PrimaryStation	SecondaryStation	Description
Prediktor1	Prediktor	Hive;localhost;Prediktor.ApisLoader.1;;		

> **NOTE**
>
> Use the **Test Connection** button to check the connection with the Server and Database.

Points Configuration

Address

You can use either the **Browse** button to see all data available in the Prediktor database or writte the Tag address directly into the field.

Use the **Verify** button to check if it is a valid name and get the current value and quality.

Example:

TagName	Address	DataType	AccessType	Description
Line001 Temperature	Line[1].Furnace Temperature	Integer	ReadWrite	

Troubleshoot

Common error codes		
Error Code	**Description**	**Possible Solution**
0	Success	• None
-100	Error Sending Message	• Turn PLC on • Plug the PLC Ethernet cable • Check configured IP Address field on **Device Node** • Ping PLC using prompt command
-101	Error Sending and Waiting Message	
-102 . . . -105	Error creating TCP/IP connection	
-106	Error Receiving Message	

-112	Timeout Start Message	• Turn PLC on • Plug the PLC Ethernet cable • Ping PLC using prompt command • Check configured IP Address field on **Device Node** • Increase the driver timeout field on **Device Channel**
-113	Timeout between Treated Chars	
-114	Timeout End Message	
-115	Timeout Connect	
-200	Protocol Error	• Check if the PLC model is compatible with driver documentation • Check the configured Address field on **Device Points**
-201	Invalid Protocol	• Check if the PLC model is compatible with driver documentation • Contact technical support
-202	Invalid Station	• Check configured IP Address field on **Device Node** • Restart the driver
-204	Invalid Message Sequence	• Check if the PLC model is compatible with driver documentation • Check the configured Address field on **Device Points**

Driver Revision History

Prediktor Revision History	
Version	**Notes**
1.0.1.1	Test Connection in remote engineering now states that the test ran on the Designer machine and does not validate the runtime connection.
1.0.1.0	Initial release on new documentation standards.

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