RECON PLATFORM BY TAJMAC-ZPS

RECON CONNECT



MACHINE DATA EXTRACTION

Why ReCON CONNECT?

A product that makes it easy to collect data from your machine using the standardized and encrypted OPC UA protocol.

ReCON CONNECT is designed with a deep understanding of machines, because we have many years of experience as their manufacturer. Thanks to this experience, we can effectively identify and extract key data. We offer not only a competitive pricing policy, but also long-term support and continued feature development. Our department is a new, dynamic team within a company with more than 120 years of history.

The machine is connected via an Ethernet connection to the CNC system. For conventional machines, we use PLC installation and data collection using current load or a 24 V signal.

The OPC UA server can be operated on hardware supplied by TAJMAC-ZPS, a.s., or it can be virtualized on the customer's company server. The customer can specify which machine data can be read or written. They can choose from three discounted packages depending on how much data you want to collect.

Third-party programs can access the OPC UA server and read data if they are equipped with an OPC UA client. If any of your existing systems do not support OPC UA (Industry 4.0 standard), we will supply an OPC UA client that supports reading from OPC UA and MTConnect and create a programming database (MS SQL/MariaDB).
This greatly simplifies the integration of data into your systems.

We have also expanded this service to include connectivity with Power BI, where you can create your own reports based on this data.

MAIN ADVANTAGES OF RECON CONNECT

- **Standardized and encrypted protocol**
- **Supported in Industry 4.0 and subsidy titles**
- **Connectivity for other devices/systems**
- **Option to add MS SQL and MariaDB databases**
- **Currently supported systems:**

Fanuc
- Supports two-way secure communication

Siemens NC, PLC
- Supports two-way secure communication

Heidenhain
- without DNC 18, one-way secure communication
- with DNC 18, it supports two-way secure communication.

Mitsubishi
- supports two-way secure communication

Conventional machines
- one-way secure communication based on load measurement and 24V signal

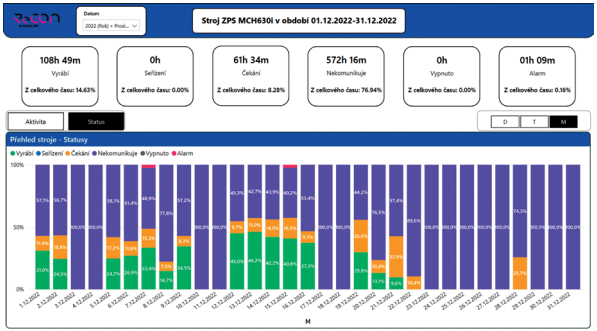
ReCON API
- information on demand

MTConnect
- supports one-way communication with MTConnect, or we can translate this protocol into the OPC UA standard

ReCON Client
- allows data to be stored in MS SQL, MariaDB

- **Option to connect to Power BI**

- reporting using Power BI



- example of reading CONNECT data

Display Name	Value	Datatype	Source Timestamp	Server Timestamp	Statuscode
MACHINE	KMX432VV104L0120	String	6:15:03.102	9:21:55.705	Good
FEED_OVR	100	UInt32	9:21:59.431	9:21:59.609	Good
SPEED_OVR	100	UInt32	9:22:13.474	9:22:14.277	Good
PIECE_PROGRAM	TRNO_K1	String	9:22:20.480	9:22:21.432	Good
PIECES_COUNTER_...	1915	UInt32	9:35:44.021	9:35:44.021	Good
OP_MODE	2	UInt32	9:22:29.500	9:22:30.459	Good
MODE TMDB	3	UInt32	9:22:40.521	9:22:40.818	Good
MACHINE	MCFV1060V280C1081	String	6:15:12.264	9:23:04.934	Good
FEED_OVR	0	UInt32	9:23:09.605	9:23:10.509	Good
SPEED_OVR	0	UInt32	9:23:20.629	9:23:20.913	Good
PIECE_PROGRAM	V-VIKO.H	String	9:23:32.655	9:23:33.566	Good
PIECES_COUNTER	0	UInt32	9:23:45.682	9:23:46.308	Good
OP_MODE	2	UInt32	9:24:08.729	9:24:09.011	Good
MODE TMDB	0	UInt32	9:24:11.748	9:24:11.927	Good
MACHINE	MCFV1260V290C0526	String	6:15:17.108	9:24:47.370	Good
FEED_OVR	100	UInt32	9:24:58.520	9:24:59.321	Good
SPEED_OVR	99	UInt32	9:25:02.539	9:25:03.473	Good
PIECE_PROGRAM	V-UCHYT.H	String	9:25:07.550	9:25:08.134	Good
PIECES_COUNTER	0	UInt32	9:25:16.573	9:25:16.934	Good
OP_MODE	2	UInt32	9:25:21.585	9:25:22.326	Good
MODE TMDB	3	UInt32	9:26:28.878	9:26:28.879	Good
ALARM_LIST	44040417#1#Křížová kontrola MC - zad...	String	9:35:08.390	9:35:08.390	Good
MACHINE	MCFV1260V290C0362	String	6:15:22.140	9:26:16.221	Good
FEED_OVR	100	UInt32	9:26:26.104	9:26:26.350	Good
SPEED_OVR	100	UInt32	9:26:29.110	9:26:29.529	Good
PIECE_PROGRAM	V.H	String	9:26:35.149	9:26:35.921	Good
PIECES_COUNTER	0	UInt32	9:26:41.157	9:26:41.908	Good
OP_MODE	2	UInt32	9:26:55.255	9:26:56.133	Good
MODE TMDB	3	UInt32	9:33:36.060	9:33:36.060	Good
MACHINE	MCFV1260V290C0546	String	6:15:28.310	9:27:40.072	Good
FEED_OVR	0	UInt32	9:27:45.091	9:27:45.609	Good
SPEED_OVR	0	UInt32	9:27:53.118	9:27:53.434	Good
PIECE_PROGRAM		String	9:28:03.162	9:28:04.060	Good
OP_MODE	0	UInt32	9:28:08.172	9:28:08.945	Good
MODE TMDB	0	UInt32	9:28:19.191	9:28:19.285	Good
MACHINE	DMGCLX450	String	6:15:32.189	9:31:15.262	Good
FEED_OVR	100	UInt32	9:31:17.842	9:31:18.690	Good
SPEED_OVR	100	UInt32	9:31:25.875	9:31:26.736	Good
PIECE_PROGRAM	R_306PRIRUBARAVEO2STR	String	4:45:56.275	9:31:34.759	Good
PIECES_COUNTER_...	97	UInt32	9:35:15.862	9:35:15.862	Good
OP_MODE	2	UInt32	9:32:06.003	9:32:06.281	Good
MODE TMDB	3	UInt32	9:32:07.005	9:32:07.513	Good
MACHINE	DMGCTX510	String	6:15:37.218	9:32:27.513	Good
FEED_OVR	100	UInt32	9:32:31.131	9:32:31.476	Good
SPEED_OVR	100	UInt32	9:32:40.149	9:32:40.613	Good
PIECE_PROGRAM	348ROLNAZADNI	String	9:32:46.181	9:32:46.756	Good
PIECES_COUNTER_...	6	UInt32	9:32:47.194	9:32:48.049	Good
OP_MODE	2	UInt32	9:32:58.210	9:32:59.055	Good
MODE TMDB	4	UInt32	9:33:00.213	9:33:01.068	Good
MACHINE	OkumaGENOSL2000-e	String	6:15:42.184	9:33:25.270	Good
FEED_OVR	100	UInt32	9:33:30.274	9:33:30.885	Good
SPEED_OVR	100	UInt32	9:33:34.286	9:33:35.260	Good
PIECE_PROGRAM	OK029-Vlozka.MIN	String	9:33:40.306	9:33:41.077	Good
PIECES_COUNTER_...	1595	UInt32	9:33:43.319	9:33:44.293	Good
OP_MODE	2	UInt32	9:33:52.338	9:33:52.464	Good
MODE TMDB	3	UInt32	9:34:00.367	9:34:00.486	Good
MACHINE	OkumaL250	String	6:15:47.154	9:34:20.612	Good
FEED_OVR	100	UInt32	9:34:27.394	9:34:27.745	Good
SPEED_OVR	100	UInt32	9:34:32.406	9:34:33.188	Good