



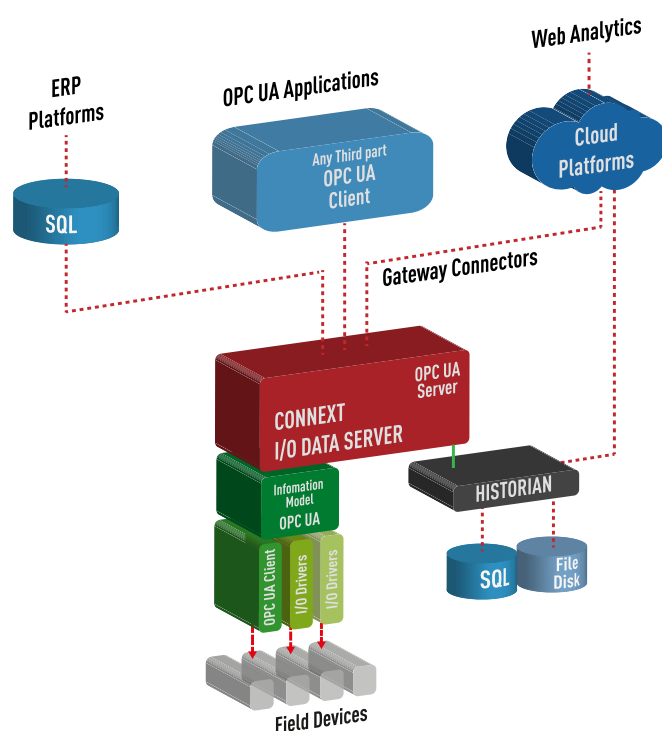
**Industrial I/O Data Server  
Software OPC UA Server,  
Data Logger, I/O Gateway and IIoT**

# Much more than an ordinary OPC UA Server

# Connext<sup>®</sup>

The **Connext<sup>®</sup> OPC UA** software is much more than an industrial communication server. It is a connectivity engine for every data acquisition, deployment and recording need.

Progea's vast experience and know-how in industrial communication protocols and the OPC UA technology have resulted in offering their latest Connext Communication Server, OPC UA Server software. This software is based on the renowned Automation Platform.NExT architecture, a new generation industrial platform that offers the one all-inclusive data source for all your application needs. The Connext OPC UA Server has been designed to provide companies with seamless and effortless connectivity towards different types of field devices in the automation, infrastructure and process control sectors. The Server offers a large number of communication protocols and is easy to configure to manage connectivity and data collection systems that are capable of connecting to any enterprise-wide system using the OPC UA technology standards. Connext<sup>®</sup> empowers you with the best connectivity technology to create Industry 4.0-ready solutions effortlessly and safely collect and publish data on the Cloud, manage business information flows towards ERP/MES business managerial systems, or simply connect field devices to software applications.



# Indispensable for Industry 4.0

## Connectivity between different automation systems to increase your level of efficiency and competitiveness.

ConnexT© is an open and flexible technology that meets the challenges of today's world. Business organizations are more than ever obliged to digitalize due to the ever-increasing demand to obtain all real-time data to improve efficiency aided by data analysis and machine to machine (M2M) communications. ConnexT© is the ideal solution that empowers companies to meet these challenges and improve efficiency. It has been designed to connect to all field systems, handle real-time information and sort them through to other systems, transmit them to monitoring and control systems or business managerial systems to then be recorded and stored on a database or in the Cloud.

## Cross-Platform.

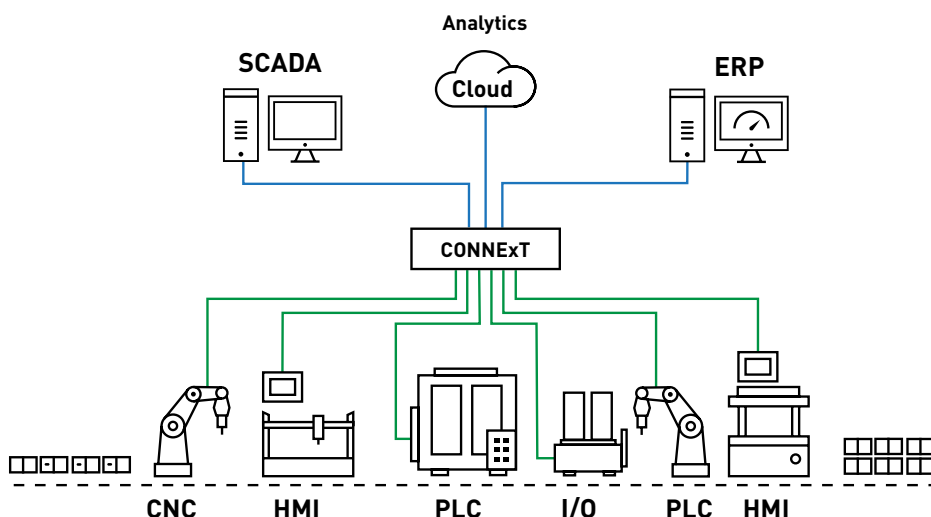
ConnexT© is also available in the Core version to support small embedded hardware with Linux operating systems, such as Raspberry PI, to offer the maximum scalability possible for your data collection projects.

## Industrial Internet of Things (IIoT) for machine connectivity and collecting data to the Cloud.

ConnexT© provides a large number of communication protocols that can connect to all field devices. In addition, it also provides IIoT protocols that can be specifically used to efficiently manage gateway solutions between the various field devices and Cloud solutions based on the 'Internet of Things'. Thanks to these technologies, data collection can now become solutions open to Cloud applications needing to obtain field information from wherever it may be.

## Information collection center and gateway to all business managerial systems.

ConnexT© is a flexible and modular solution based on the OPC UA technology, the international IEC 62541 standard in industrial communication. It takes on the role of a data engine, a real-time information collection center serving any other business information system such as SCADA, HMI, MES and ERP or a gateway between field information and other local or remote systems. A flexible modular solution the OPC UA technology, the international IEC 62541 standard in industrial communications.



# Beyond the OPC UA I/O Data Server

## Connex<sup>®</sup> offers powerful data recording tools that record and archive all collected data on a Relational Database or in the Cloud.

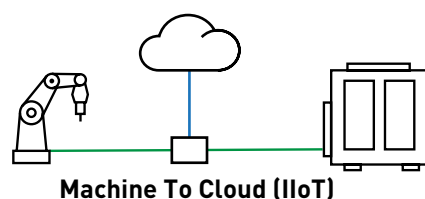
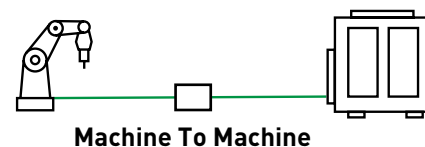
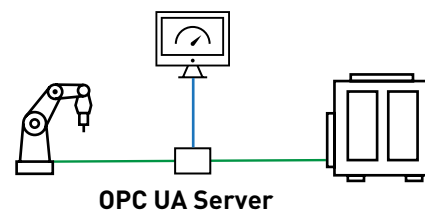
Connex<sup>®</sup> not only means connectivity. In addition to publishing all data connected to field devices in the OPC UA address space, the Server also offers the option to record the collected data directly on a Database or in the Cloud by using the integrated Historian and Data Logger functions. Users can either opt to use the Historian which offers a time-series data recording model, or the Data Logger which offers the classic model of recording data on tables containing columns. Each table column represents a variable and each record represents a recording. Both functions use the most modern technology to interface with the most popular Relational Databases, such as SQL Server, My SQL and Oracle, or Cloud using SQL Azure. Maximum security is also ensured with the option to use Archive Redundancy for mission critical and fault tolerant applications.

## Big Data, IIoT and Cloud: The challenge of the future.

Modern business organizations are fully aware of the importance to have all real-time information available. Connectivity is therefore a key feature of every organization's strategy plan to improve its competitiveness within a now globalized economy. This is where Connex steps in. It has been designed to satisfy all the requirements of those companies who are looking for future-proof data collection solutions. It is an OPC UA standard-oriented solution that serves as a gateway to the Internet of Things to collect and handle data, including Big Data, within a Cloud-base context.

## OPC UA Specification and Certification

Connex<sup>®</sup> is a certified OPC Foundation I/O server offering the best guarantee in terms of OPC technology and communication model operativity. The Server not only supports the Data Access (DA) specification to exchange data, it also supports the Alarm & Conditions (AC) specification to manage alarm notifications for OPC UA Clients. In addition to the Historian functions, it also supports the Historical Access (HA) specification to allow OPC UA Clients access to Historical data. A powerful all-inclusive, modular and flexible I/O Server engine.





# Key Features

## Cross-Platform

The Connex<sup>®</sup> Server is available in version for Windows and Windows Embedded, or for Linux thanks to .NET Core.

## OPC UA Server Certification

The Connex<sup>®</sup> Server is certified by the OPC Foundation and supports the Data Access, Alarm & Conditions and Historical Access specifications. Connex also supports connectivity as OPC UA Client.

## Tag Import

Each Connex<sup>®</sup> communication protocol supports automatic tag importation from the field or PLC for smoother and faster communication configuring.

## Gateway

Simultaneous execution of different communication protocols. Each Server Tag, in a MultiDriver configuration, can be connected simultaneously to communication protocols of any type.

## Historian and Data Logger

The Connex<sup>®</sup> Server offers the Historian as an option to record data on relational database (default SQL Server) or in the Cloud (SQL Azure).

## Alarms & Conditions

Alarms can be configured in Connex<sup>®</sup> Server to manage specific Alarms & Conditions in OPC UA Clients when needed.

## IIoT

The Connex<sup>®</sup> Server offers IIoT protocols to create network connectivity solutions.

## Redundancy

The Connex<sup>®</sup> Server fully supports the Redundancy (Hot Backup) function.

## SDK C#

Maximum openness: The Connex<sup>®</sup> Server offers a SDK to allow .NET developers to integrate their own custom protocols in Connex's suite of protocols.

## Scalable License

Scalable Licensing model to ensure cost effectiveness.

## Communication Protocols

Connex<sup>®</sup> integrates numerous communication protocols. The user can activate them one at a time, or with the Multidriver option he may have enabled the desired number.

- Modbus RTU o TCP Master or Slave
- Siemens S7 TCP, S7-MPI, PPI
- Siemens TIA PORTAL
- Rockwell Ethernet/IP
- Omron FINS Ethernet or Ethernet IP
- Profibus, ProfiNET
- Mitsubishi FX, Q Series
- Panasonic FP MEWTOCOL
- SAIA-Burgess
- Beckhoff TwinCAT
- B+R PVI
- GE Ethernet
- Fancu (CNC)
- IEC 60870-5-104
- IEC 61850
- Lacroix-Sofrel LACBUS
- BacNET/IP
- Konnex - EIB
- SNMP Manager (as Agent)
- OPC UA Azure IoT
- MQTT

More drivers are at work.

Visit our website at [www.connexopc.com](http://www.connexopc.com) for updates



**Passion for innovation**