



NTconnect™

An IoT Data Acquisition Platform

At-a-Glance

Helping companies build on their existing technology assets, devices and data to derive business value from the Internet of Things (IoT) is a cornerstone of our vision for enterprises looking to manage and optimize a variety of devices and sensors, including energy consumption and sustainability. Our **NTconnect™** technology allows you to collect data and monitor devices in real-time to improve efficiencies, drive operational performance, and leverage advance data analytics to transform your company with new business models and revenue streams. *The Internet of Things starts with your things.*

Advantages:

- Universal access to any meter/sensor/data source
- Measuring usage in real time
- Collecting and monitoring data from any device to perform analytics
- On-demand financial reconciliation
- Integration to back-end enterprise applications
- Open platform – other vendors can access aggregated data for analysis and reporting (xml, spreadsheet, etc.)

Improve Financial Performance Across Your Organization

Companies need a systemic way to manage their data acquisition projects across many locations and a variety of devices. Our **NTconnect™** Data Acquisition Software is helping companies build on their existing technology assets, devices and data to derive business value from the Internet of Things.

The Internet of Things is the interconnection of uniquely identifiable embedded computing devices within the existing Internet infrastructure. We offer advanced connectivity of devices, systems, and services and cover a variety of protocols, domains, and applications. The interconnection of these embedded devices, is expected to usher in automation in nearly all fields, while also enabling advanced applications like ERP, Financials, CRM, Energy Performance Management and Smart Grid, and others access the aggregated data.

Unlike Other IoT technologies, our Platform allows for:

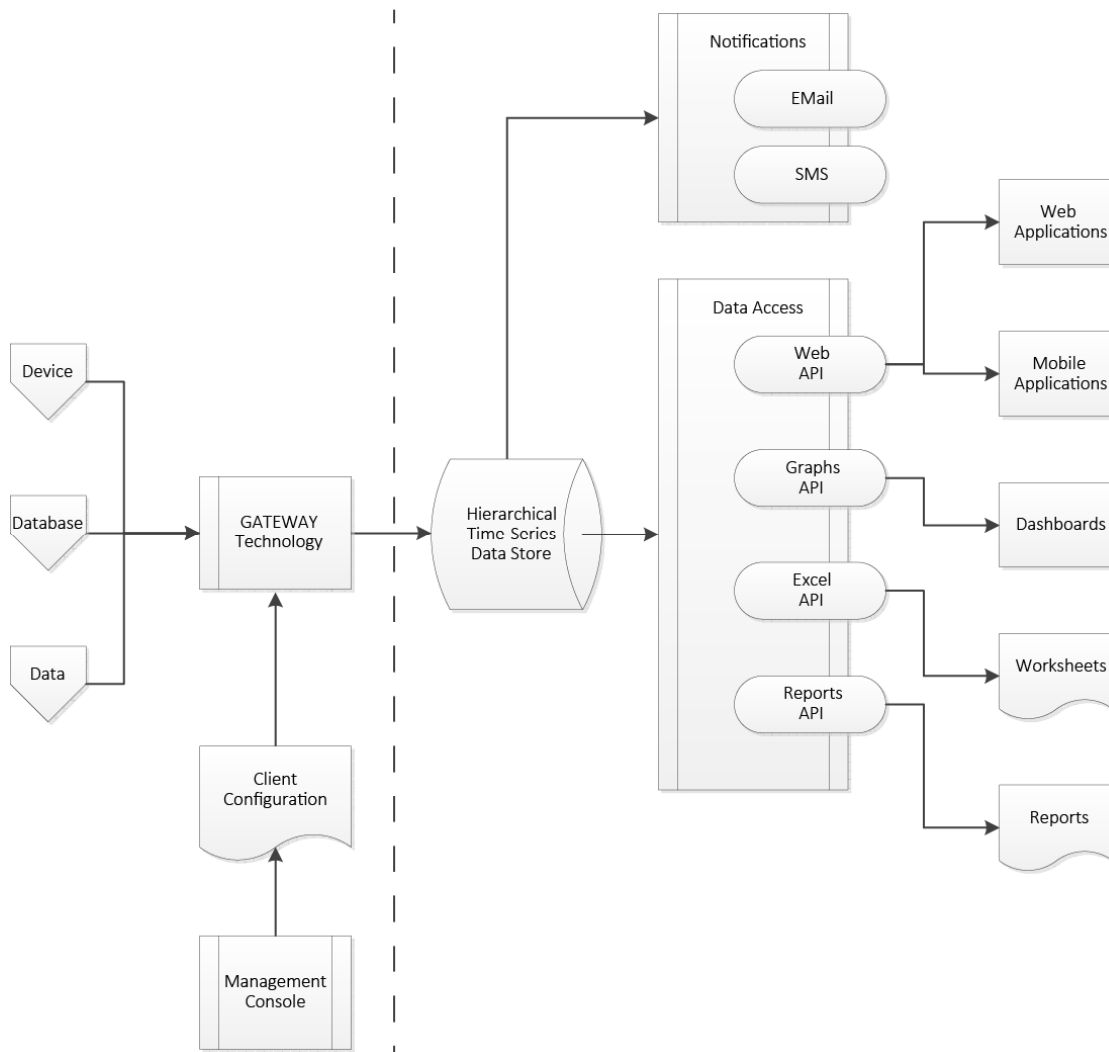
- Universal access capabilities to any device from any vendor (over 30 protocols currently supported)
- Automated collection of data from any source:
 - smart meters, sensors (clinical and otherwise,) building management systems, raw data files, etc.
- Integration to existing networks at a lower total cost of ownership (TCO) than the typical standard hardware-based solutions on the market today.
- Ability to add device protocols, considerable degree of extensibility should a new method or protocol be needed.

Breakthrough IoT Technology that is Versatile and Fail Safe

NTconnect™ Data Acquisition Software is a versatile, fail-safe data collection platform supporting the most widely used Building Automation Systems, Control Systems, Data Loggers, Data Acquisition Servers Devices and sensors. The ability to add new agents gives the software the potential to collect any type of data from any source. Now in its 4th major release and 8th year, our software has collected over 725 million samples from nearly 300 clients worldwide.

We support sample rates between 1 minute and annual. Data types can be Analog, Binary ({on, off}, {open, closed}, etc.), Multi-State ({true, false, unknown}, {on, off, error}, {open, closed, alarm}, etc.) or Text (alarm messages, RSS feeds, etc.). Collected samples are transformed into a common CSV format that can be readily transmitted over a secure SSL-encrypted (HTTPS) connection or processed by ETL.

NTconnect™ Data Acquisition Platform – Architecture



NTconnect™ Data Acquisition Platform – Data Collection Agents

Data collection is supported for the most widely used devices and protocols including Building Automation Systems, Control Systems, Data Loggers, Data Acquisition Servers and Devices, to include but not limited to:

BACnet	Campbell Scientific	Trane
Metasys	Energy Tracking	Sunny WebBox
Modbus TCP/IP	HOBOLink	oBIX
Obvius	OPC	Siemens
EMon DMon	Tridium	Delta Controls

Data collection is also supported from databases, files and web services, to include but not limited to:

HTML	NOAA Weather	WeatherBug
XML	USNO Sun & Moon	Delimited Text
OLE DB	Novar Controls	Enphase Enlighten

NTconnect™ Data Acquisition Platform – Data Acquisition Methods

