

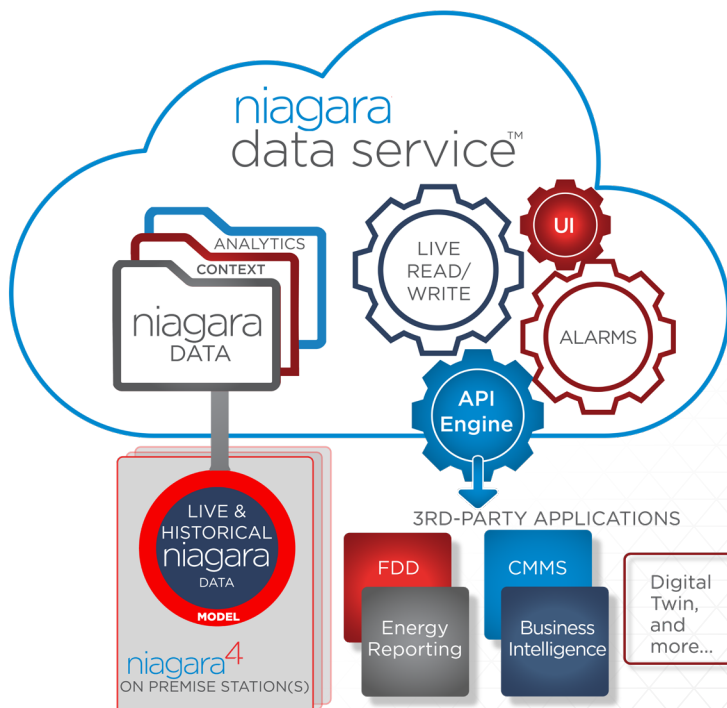
# niagara data service™

## PART OF NIAGARA CLOUD SUITE™

### PRODUCT DEFINITION

Niagara Data Service™ (NDS) prepares your building for the next era of streamlined, scalable connected services. It extends the value of a Niagara Framework-based building management system (BMS) by making trend data directly accessible via a cloud service subscription. NDS forges a simple, direct feedback loop between your BMS and your data analytics, alarm management, energy management or other insight platform of choice. It can deliver both historical trends and near real-time *live* data on demand to the stakeholders and software programs you authorize to subscribe. With the near limitless resources and flexibility of its cloud architecture, NDS evolves your BMS into a smart building platform that can grow with your performance optimization, troubleshooting and reporting needs.

Cloud scalability means NDS subscribers can design and build dashboards and other tools that collect and analyze trend data for more points at tighter intervals and over longer periods of time. This puts more information into the hands of facility managers and building operators to observe key operating metrics, understand individual assets and whole-building performance, and take action sooner. NDS is an effective solution for hybrid environments; that is, when the end user want to maintain the ability to run algorithms on premise, at the edge, as well as in the cloud—and to maintain data ownership.



### key features

#### ► No Add-On Gateways:

- Any building equipped with JACE devices and Niagara software already has what is needed to support Niagara Data Service
- Does not expand cyber threat landscape with new hardware gateways to Internet

#### ► Clean, Contextualized Data:

- Trend data accessed from Niagara Supervisors and JACE® controllers maintains tags and relations. Tags applied *once* at the BMS level can be used to drive multiple analytics and AI/machine-learning algorithms
- Supports the building owner's data ownership rights

#### ► Data Model Export Via API:

- Query directly from dashboards and analytics tools of customer choice

#### ► Live Read and Write Via API:

- Enables seamless workflows that rely on interactive data exchange between overlay applications and Niagara supervisory control

#### ► Alarms Management User Interface:

- UI enables querying alarms by device or project, as well as adding notes to an alarm, exporting device alarm information and filtering alarms

#### ► Alarms Service API:

- Enables the querying of the alarms database for alarm histories, alarm states, and alarm counts

## user activities

The Niagara Cloud Suite Management Portal is designed for optimal productivity when performing common tasks:

- ▶ For systems integrators:
  - Register a device to customer-unique cloud tenant
  - Create a partner-view hierarchy describing customer, project and subscribed device by hostID
  - Create charts from telemetry data and share for customer consumption
  - Assign customer users
- ▶ For SI Customers (Building Owner/Property Manager):
  - View devices registered to their organization
  - View charts created and shared by Niagara Partner

Niagara Data Service is accessed via the Niagara Cloud Suite portal. From this portal you can set parameters for tasks such as uploading and storing trend histories in the cloud. You can also enable the exchange of live *READ* and *WRITE* data between Niagara overlay applications and supervisory control programming. Likewise, there is an Alarms UI built into the portal that facilitates alarm management. Niagara Cloud Suite also provides charting and other visualization tools to render Niagara data as easy-to-interpret graphics. Histories and alarms can also be exported via API to Niagara partner-built dashboarding and analytics tools as well as to the end-customers' choice of business intelligence tools—all while maintaining contextual model data so that you always preserve your investment in semantic tagging. Enterprise-grade cyber protections are built in, including role-based access to records and the encryption of data in transit and at rest.

## ORDERING INFORMATION

Niagara Data Service subscriptions can be ordered per Niagara instance. Tiers are based on query volume (egress). The estimated annual egress volume of the Gold Tier (600 GB) is based on the data sizing and query requirements of average facilities in nine industry segments capturing histories at 15-minute intervals.

Part Number	Volume
NCS-NDS-GOLD	600GB
NCS-NDS-SILVER	300GB
NCS-NDS-BASIC	150GB

### Note:

Should the annual data egress limit be exceeded, data overages are allowed at the list price/GB per month.

## PREREQUISITES

Niagara Data Service and access to the Niagara Cloud Management Portal require an active Niagara Software Maintenance Agreement (SMA). The end-customer should be updated to a current, supported release of Niagara Framework with all the latest cyber-threat protections applied. This is to help safeguard data at the network edge and is another aspect of Tridium's 'Secure by Default' policy for all Niagara Framework offerings.

*To learn more about how to purchase and start using the Niagara Data Service, contact your Tridium account manager or Niagara partner.*