

niagara data service™

PRODUCT DEFINITION

Niagara Data Service™ (NDS) is a SaaS offering that extends API-based access to contextualized data aggregated by the Niagara Framework®. Historical data that originates from on-premise control networks is made accessible via the Niagara Cloud management portal and APIs. Likewise, Niagara Data Service includes Read-Write APIs that can be used by client applications to deliver live data to an overlay analytics application. Applications can send back changes to supervisory control in response to analysis of observed conditions in near real-time.

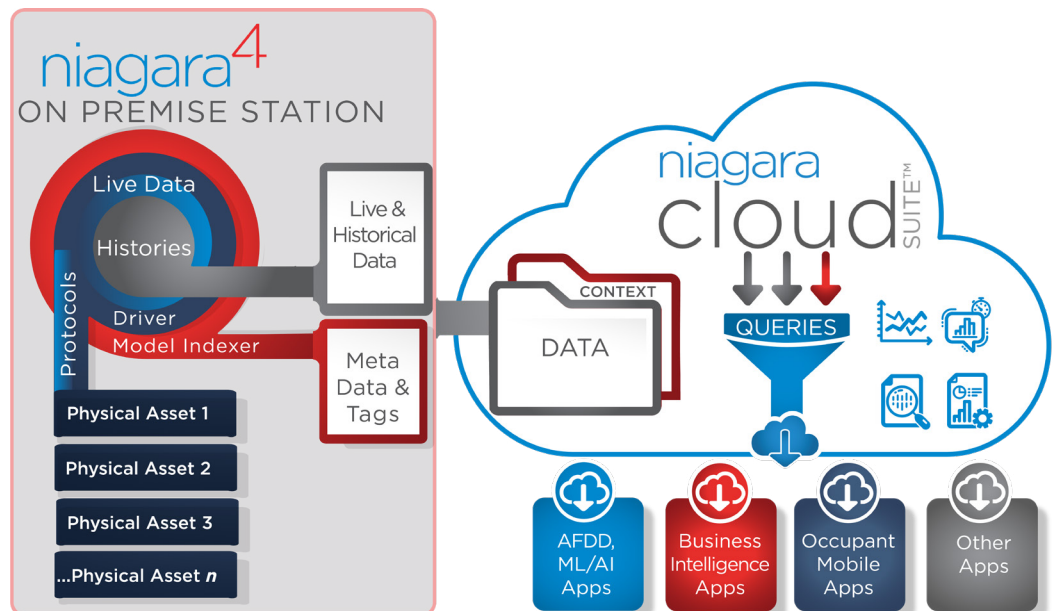
NDS subscribers can upload, store and analyze trend data from Niagara Supervisors and JACE® controllers, complete with associated model data. Niagara Data Service delivers rich data ready for down-stream applications to ingest and analyze. Tags and relations are maintained to drive analytics and AI/machine-learning algorithms. NDS preserves investment in standardized tagging and other data preparation work. Do it **once** at the Niagara BMS level and reap value every time the data is accessed, analyzed and presented by overlay applications.

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.

Niagara Data Service is a SaaS offering within the Niagara Cloud Suite™. It builds upon the openness and extensibility of Niagara Framework® to support the systems integration and solution development services of our partners, as well as the strategies and software choices of end-users.

HOW IT WORKS

Via the Niagara Cloud Management Portal, you can set parameters for uploading and storage of histories with associated contextual model data. You can also query and render Niagara data as graphical visualizations with charting tools available from within the Niagara Cloud. Histories 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, Automatic Fault Detection & Diagnostics (AFDD), and other software overlay tools.



FEATURES

Niagara Data Service features include:

- ▶ Callable storage and query analytics services for Niagara trend data
- ▶ Histories that retain full semantics based on owner tagging strategy
- ▶ Semantic tagging dictionaries based on ontologies such as Project Haystack and Brick are supported
- ▶ Data Model Export via API
- ▶ Query directly from dashboards and analytics tools designed and built by Niagara Partners or Business Intelligence (BI) tools of customer choice.
- ▶ Live READ & WRITE of data via API empowers developers to build seamless workflows that rely on interactive real-time data exchange with Niagara supervisory control.

Niagara Cloud Management Portal enables:

- ▶ Setup and access to Niagara Cloud Suite services:
- ▶ 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

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 VYKON account manager or Niagara partner.



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