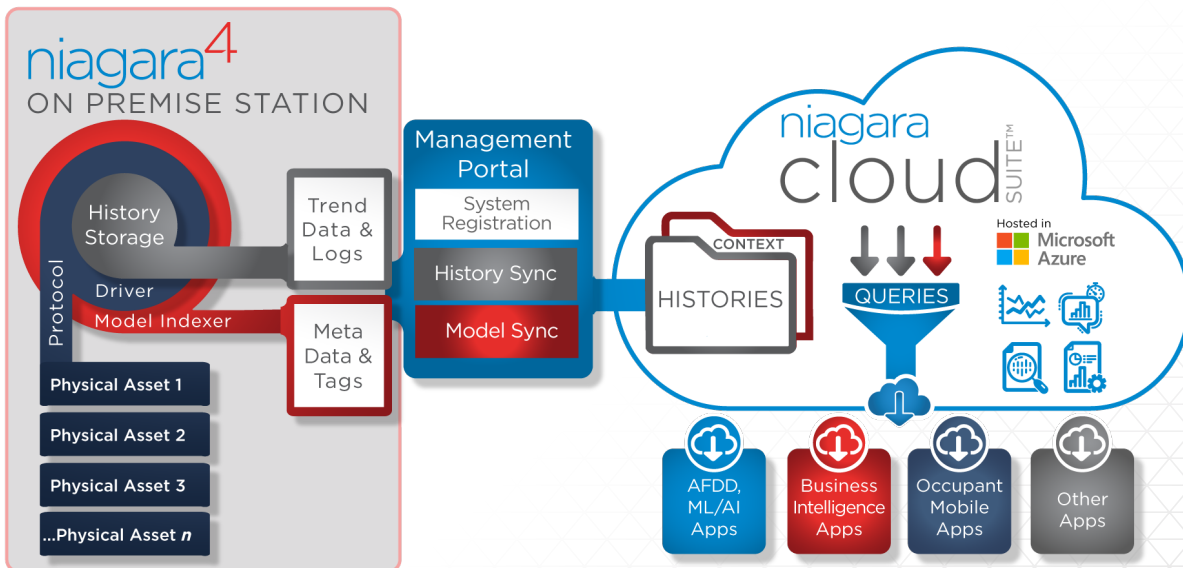# niagara Data Service™

PRODUCT DEFINITION

Niagara Data Service™ is a new SaaS offering that extends API-based access to semantically-enriched history data aggregated by the Niagara Framework®. Data originates from on-premise control networks and is accessible via the Niagara Cloud management portal and APIs. Niagara Data Service enables Niagara users to leverage the flexibility and scalability of Microsoft Azure cloud-hosted storage, in addition to the power of tags and relations applied to data.

You can upload, store and analyze trend data from Niagara Supervisors and JACE® controllers, complete with associated model data. Histories are delivered ready for down-stream applications to ingest and analyze. Tags and relations are maintained to drive analytics and machine-learning algorithms. System integrators (SI) 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 when needed. Via APIs, you can also merge and analyze data with your own enterprise business intelligence tools to holistically view energy usage and operational efficiency across a real estate portfolio that spans multiple campuses and geographies.

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.

The Niagara Cloud Management Portal enables users to set the parameters for uploading and storage of histories with associated contextual model data. Trend data can be queried and presented as graphical history visualizations from 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 tools. Niagara Data Service complements Automatic Fault Detection & Diagnostics (AFDD) and Machine-Learning-based building management strategies.

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 are supported

▶ Fully integrated with Niagara Framework® including:
  - Data Model Export via API
  - Query directly from dashboards and analytics/machine-learning (ML) tools designed and built by Niagara Partners or Business Intelligence (BI) tools of customer choice.

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 Tridium account manager or Niagara partner.

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