



NIAGARA SUMMIT 2026

SEAMLESS CONNECTIVITY,
POWERFUL INTELLIGENCE

TRIDIUM 



MY FIRST NIAGARA CLOUD API CALL

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SUMMIT
2026
DEVELOPER**

Agenda

What is Niagara Data Service?

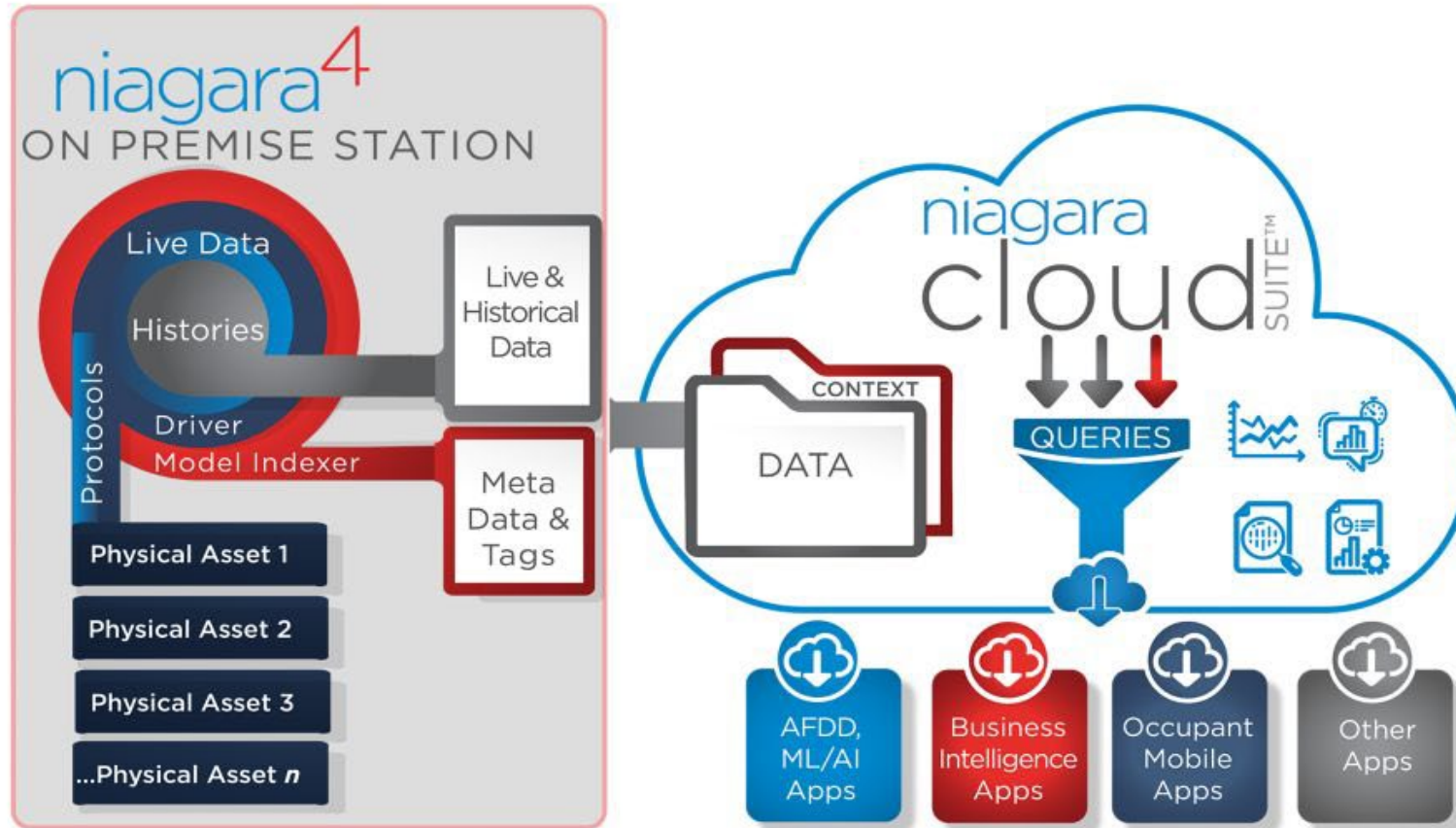
Authentication

Calling NDS API

Getting the JSON Response

Developer notes

What is Niagara Data Service(NDS)?



NDS API Families

- Search (Entity Model Service)
- Histories (Egress)
- Commands (Control)
- Alarms (alarm queries)

The Cloud API Pattern



Prerequisites

- Niagara Stations with NDS subscription registered to NCS and is sending data.
 - Copy the [System GUID](#) and [Cloud ID](#) of the points for which you want to retrieve histories.
- Service account created in NCS Portal

Authentication

POST

<https://auth.pingone.com/2bb83e4b-dd73-47d3-984b-6e601302d766/as/token>

Authentication

Request Headers

Content-Type: application/x-www-form-urlencoded

Authorization: Basic <Base64(clientId:clientSecret)>

Example:

- Client ID: 1234 & Client Secret: abcd
- Header value:
 - Authorization: Basic MTIzNDphYmNk

Authentication

Request Body (Form URL Encoded)

- `grant_type=client_credentials`
- `scope=ncp:read`

NDS API Request

Request URL: POST

- Base URL: <https://www.niagara-cloud.com>
- End point: /api/v1/egress/telemetry

Request Header:

- Authorization: Bearer <access-token>

NDS API Request

```
{  
  "systemGuid":      "<systemGuidOfYourStation>",  
  "cloudId":         ["<cloudIdOfPoint> "],  
  "startTime":       "2026-02-03T06:28:14.353Z",  
  "endTime":         "2026-02-05T08:59:49.427Z",  
  "recordLimit":     "5000",  
  "includePreRecord": false,  
  "includePostRecord": false,  
  "sortAscending":   false  
}
```

NDS API Response

```
"systemGuid": "<system GUID that was passed",  
"recordLimit": "<record limit that was passed",  
"pointDetails": [  
  {  
    "pointId": "<pointId that was passed>",  
    "preRecord": {  
      "t": "2022-02-03T12:37:54.943Z",  
      "v": 16.97627830505371  
    },  
    "postRecord": {  
      "t": "2022-02-03T2:37:54.943Z",  
      "v": 17.87627830505371  
    },  
  },  
],
```

```
"historyRecords": [  
  {  
    "time": "2022-02-03T12:58:00.953Z",  
    "value": 36.296260833740234,  
    "properties": <properties of point at  
the time History was recorded>  
  }  
]  
}
```

Developer Notes

- Batch your requests
- Flexible time ranges

References

Service account creation:

<https://docs.niagara-community.com/bundle/docNdsApi/page/CreatingAServiceAccount-F6C596BC.html>

Device Registration:

<https://docs.niagara-community.com/bundle/docNcsPartner/page/RegisteringTheDeviceInCloud-F2B2B5AE.html>

References

Swagger:

Entity Model:

<https://www.niagara-cloud.com/api/v1/entitymodel/swagger-ui/index.html#/>

Control:

<https://www.niagara-cloud.com/api/v1/control/swagger-ui/index.html#/>

Egress/History/telemetry:


<https://www.niagara-cloud.com/api/v1/egress/swagger-ui/index.html#/>

Alarms:

<https://www.niagara-cloud.com/api/v1/alarms/swagger-ui/index.html#/>

More Information

- Workbench: Developer Guide
- Niagara-Community.com
- TridiumUniversity.com



UP NEXT: Q&A



Q&A

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