



CONNECTING
THE WORLD

The logo for NF 23 is centered on the left side of the slide. It features a stylized globe with a grid of latitude and longitude lines, set against a dark blue background with a subtle network pattern of dots and lines. The letters 'NF' are in a large, bold, white sans-serif font, and the number '23' is in a larger, bold, white sans-serif font, both centered over the globe.

NF 23

CONNECTING
THE WORLD

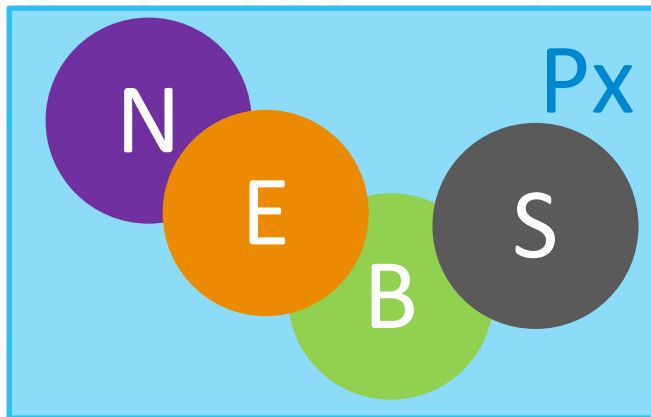
Scaling Tips and Tricks

Tony Hardwick
Tridium

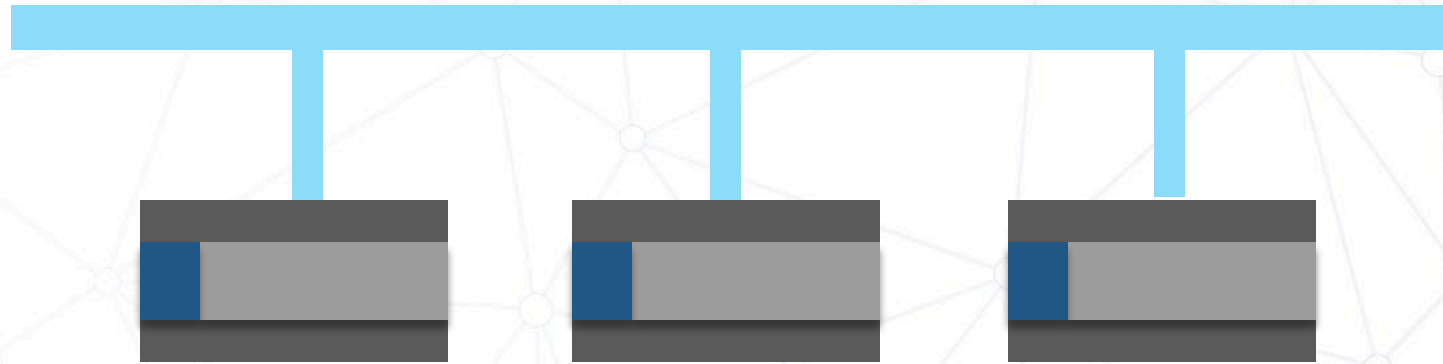
Scaling up

Introduction

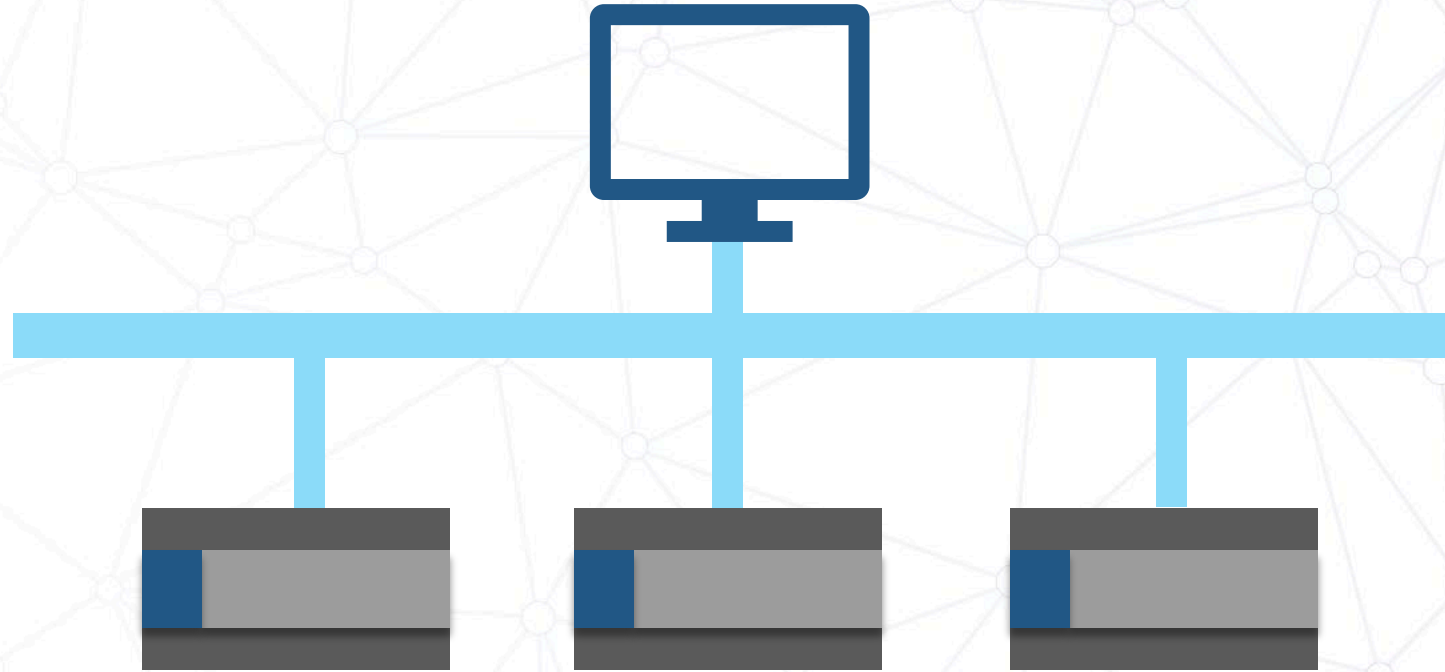
Single controller setup



Becomes multi-controller

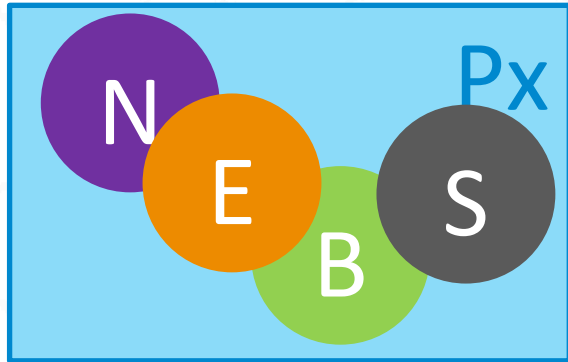


Plus Supervisor



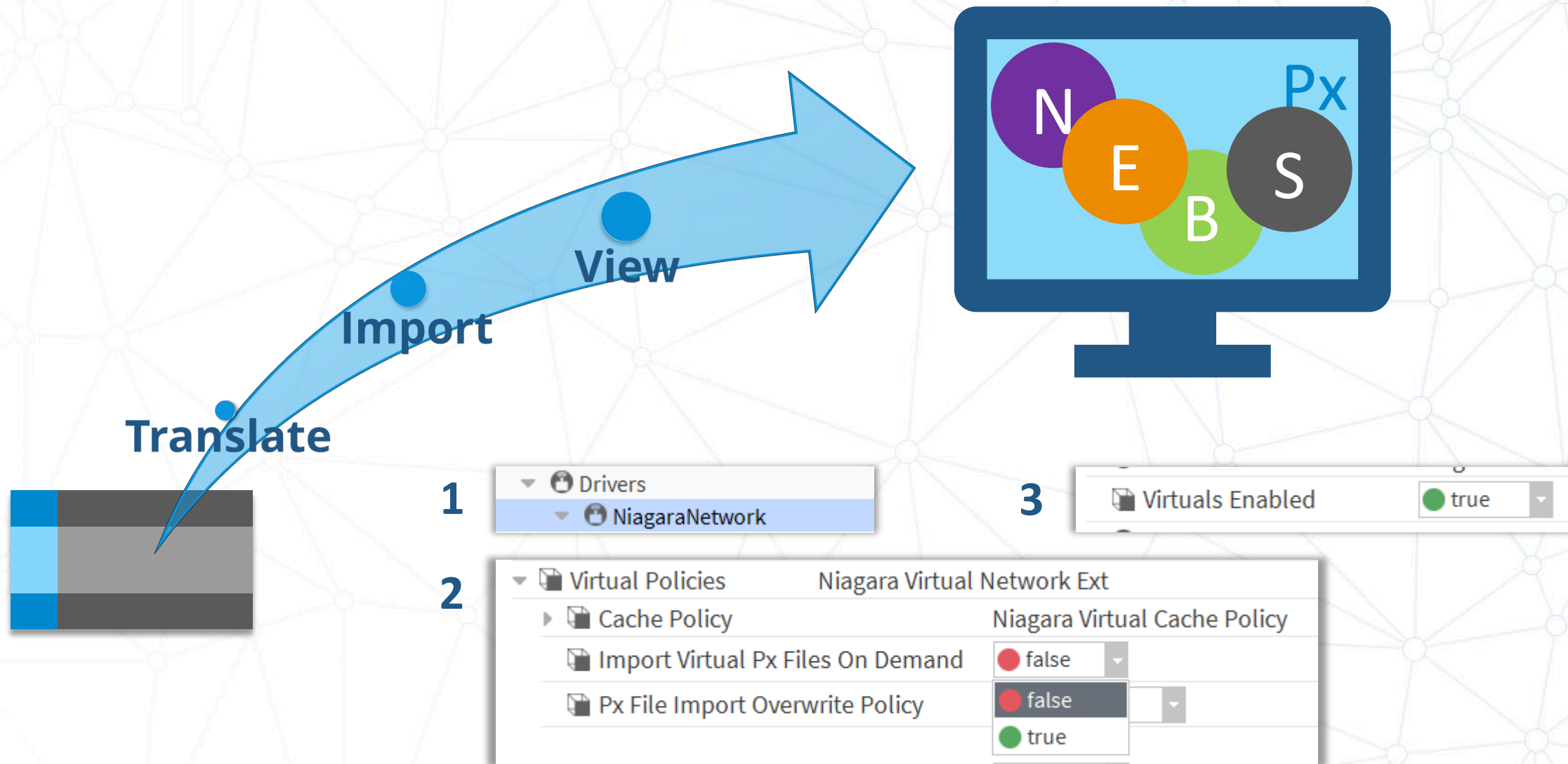
Px Graphics

Options for Px



- Virtual Px On Demand
 - Efficient
 - Relies on machine-to-machine permissions
- Creating graphics on Supervisor
 - Better management of permissions
 - Requires prior planning

Virtual Px on Demand



Metadata

Tags for hierarchies and templates and graphics and stuff

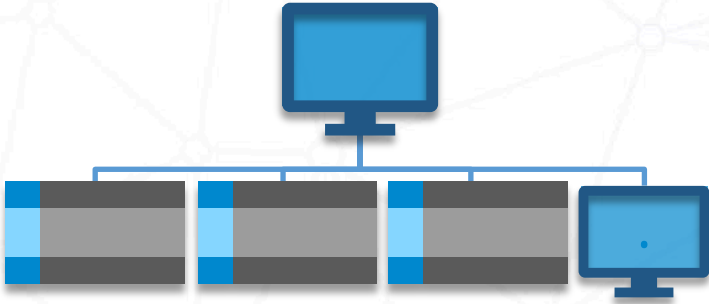
Metadata



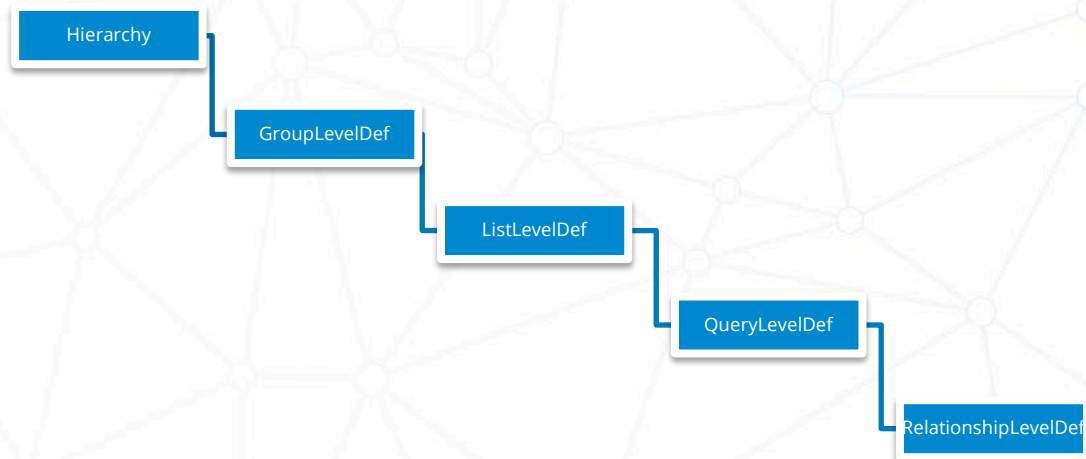
- Supervisor:
 - System Database!
- Best practices
 - Tag 'em up
 - SmartTags

System Database

- Quick and easy setup
- Leverage existing metadata structures



Existing Hierarchies from Subordinate



- Copy the Hierarchy into Supervisor
- Change scope:

▼ Hierarchy Hierarchy

Query Context >> ⌚

Status {ok}

Fault Cause

▼ Scope Hierarchy Scope Cont

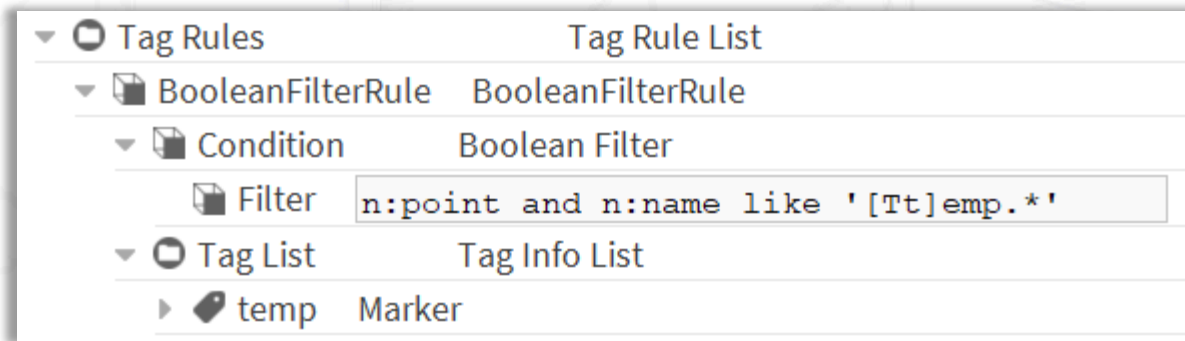
▼ Station Hierarchy Scope

Scope Ord ~~station.sys~~:

- Profit

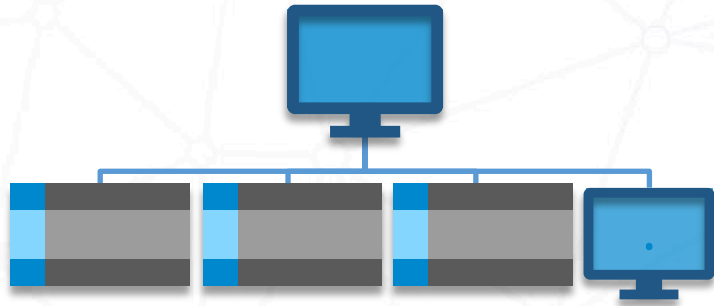
Smart Tags

- Way easier than you think

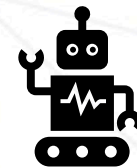


- = go find points whose name is something like e.g. 'temperature'
- Put a temp tag on them

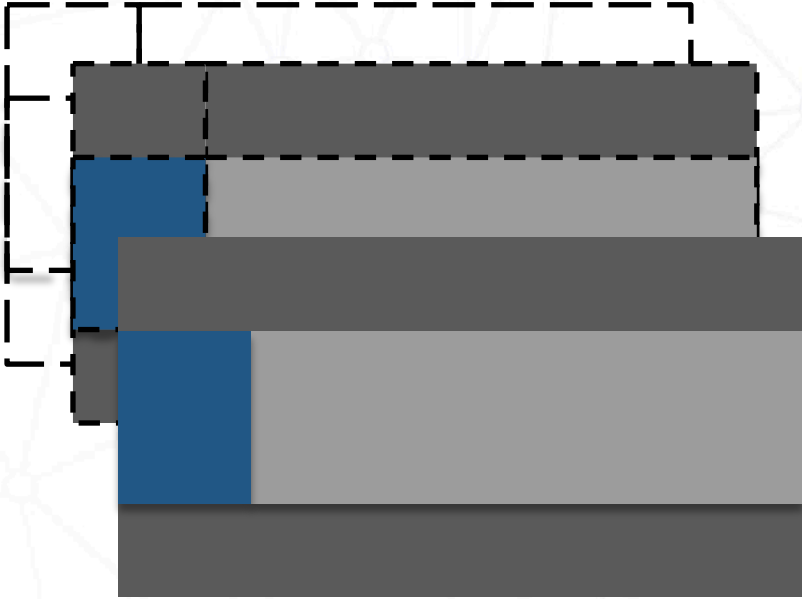
Provisioning



- Manage your stations:
 - Install software
 - Change values
 - Manage Templates
 - Certificates
 - Single-sign-on (SSO) config
 - Do the robot



Templates



- Updatable
- Reusable
- Provisionable



CONNECTING
THE WORLD



NF
23

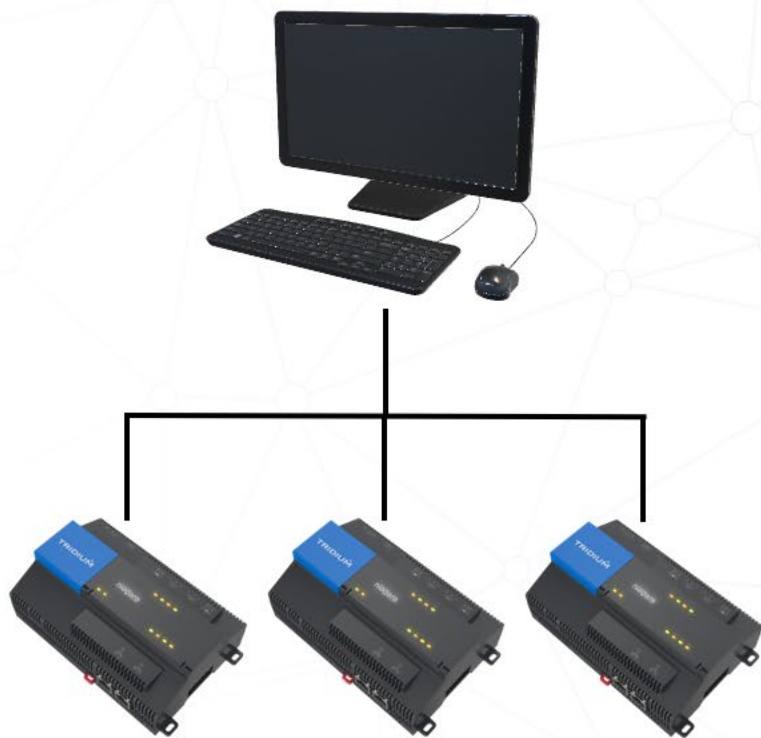
CONNECTING
THE WORLD

System Database

Curtis McKerlie

Tridium

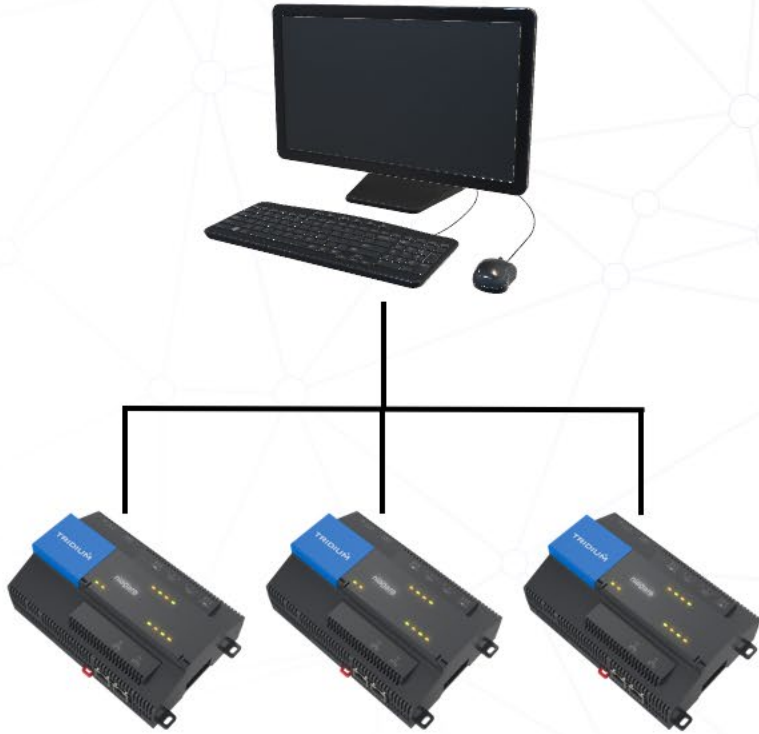
What is System Database?



The purpose of the System Database is to allow you to run queries against your entire Niagara system (Supervisor and those stations connected to it).

This allows your searches and hierarchies to span the entire system.

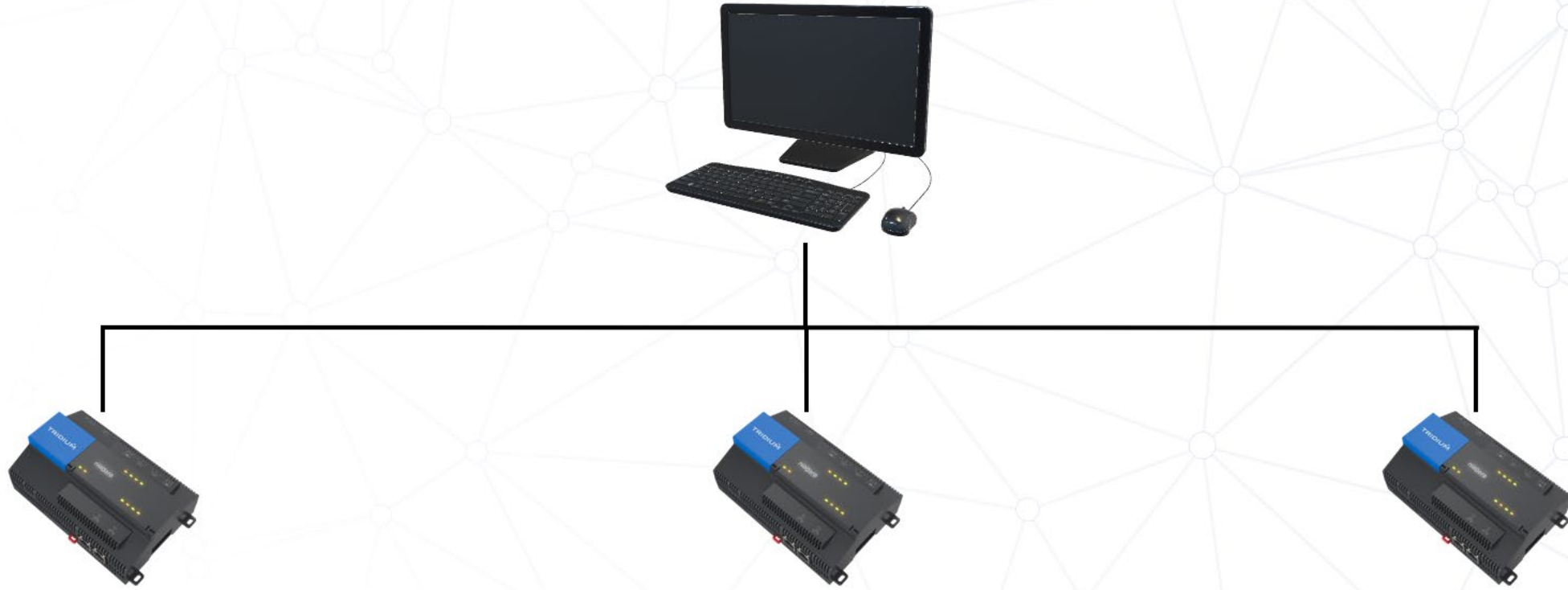
What is System Database



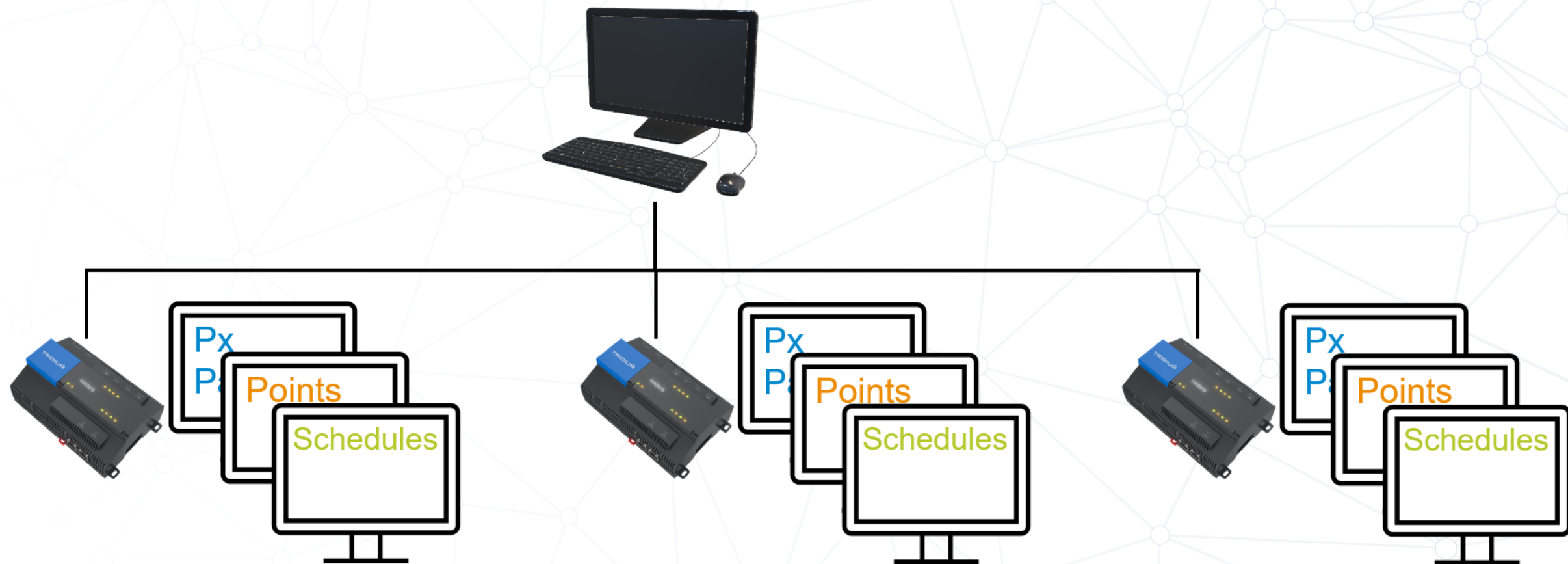
JACE stations will not have a System Database, but their information may be indexed and placed in the Supervisor's System Database.

Once entities are stored in the SystemDb, they can be queried by services, for example HierarchyService and SearchService, and other processes.

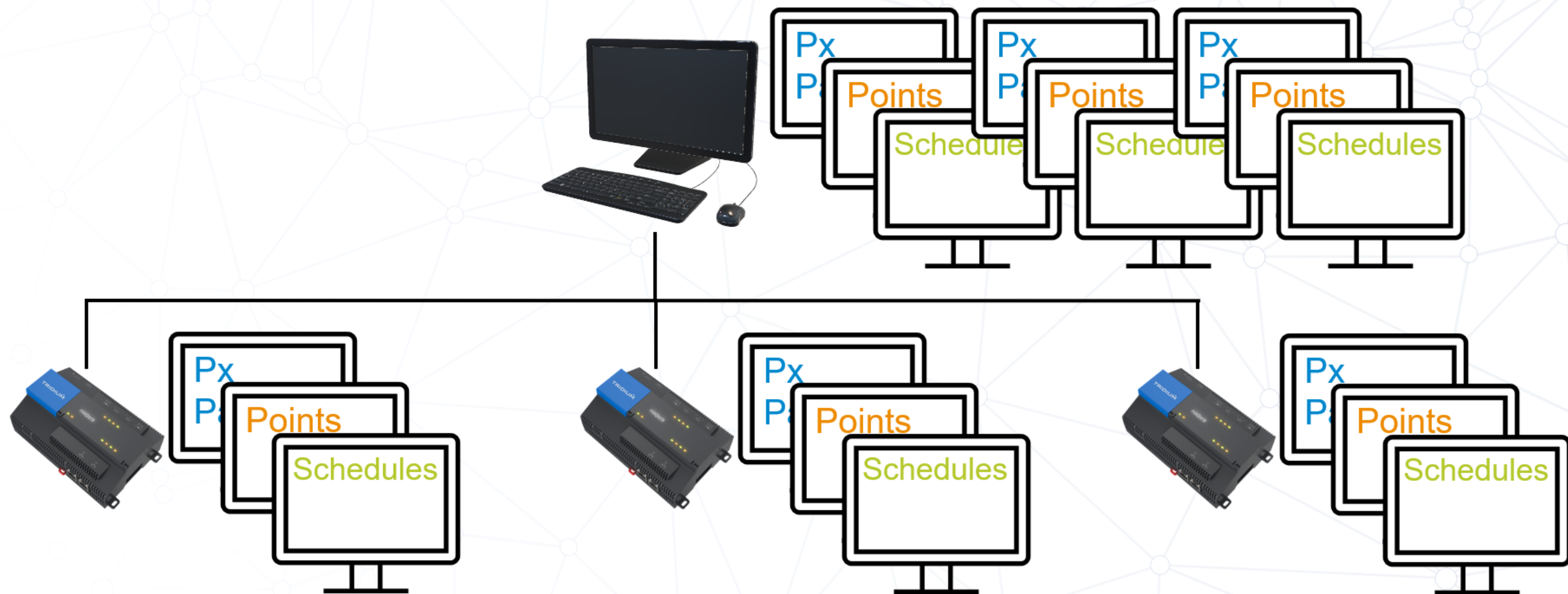
The Concept



The Concept



The Concept



- Config
- Home
- Files
- Histories
- Plant
- Schedules

Weather Forecast



Current 22.4 °C
23.9 °C/14.4 °C
Mostly Sunny
Precip: 20 %

West Building

NF

23

Image Designed by macrovector / Freepik



Nav

Config

Services

Drivers

NiagaraNetwork

ProvisioningNwExt

West Building

Apps

Home

Files

Histories

Plant

Schedules

West Building

Station Discovery

Success

2 objects

Discovered

	Station Name	Scheme	Address	Version	Host Model
	NF23_WestBldgF4	foxs	10.10.20.91	4.13.0.158	TITAN
	PackagedChiller	foxs	localhost	4.10.5.14	EDGE10

Database

0 objects

Name	Exts	Address	Host Model	Version	Status	Health	Server Conn	Virtuals Enabled	Platform Status
------	------	---------	------------	---------	--------	--------	-------------	------------------	-----------------

New Folder

New

Edit

Discover

Cancel

Add

Match

Certificate Manager

NF23

TRIDIUM

Nav

Config

Services

Drivers

NiagaraNetwork

West Building

Station Discovery

Discovered

Success

2 objects

Name	Type	Address	Port	Use Foxs	Credential Store	Enabled	Virtuals Enabled	Sec Dash Import Enabled	Sec Dash Import Time	Platform User	Platform Password	Secure Pl
NF23_WestBldgF4	Niagara Station	ip:10.10.20.91	4911	true	Client Credentials	true	false	true	2:00 AM {Sun Mon Tue Wed Thu Fri Sat}		--password--	true

Name

NF23_WestBldgF4

Type

Niagara Station

Address

IP 10.10.20.91

Port

4911

Use Foxs

true

Credential Store

Username And Password

Username

Password

Enabled

true

Virtuals Enabled

false

Sec Dash Import Enabled

true

Sec Dash Import Time

Daily: 2:00 AM {Sun Mon Tue Wed Thu Fri Sat}

Platform User

Platform Password

Secure Platform

true

Platform Port

5011

OK

Cancel

New Folder

New

Edit

Discover

Cancel

Add

Match

Certificate Manager

NF23

TRIDIUM

Nav

Config

Services

Drivers

NiagaraNetwork

West Building

Station Discovery

Discovered

Success

2 objects

Name	Type	Address	Port	Use Foxs	Credential Store	Enabled	Virtuals Enabled	Sec Dash Import Enabled	Sec Dash Import Time	Platform User	Platform Password	Secu
NF23_WestBldgF4	Niagara Station	ip:10.10.20.91	4911	true	baja:ClientCredentials	true	true	true	2:00 AM {Sun Mon Tue Wed Thu Fri Sat}		--password--	true

Name

NF23_WestBldgF4

Type

Niagara Station

Address

IP 10.10.20.91

Port

4911

Use Foxs

true

Credential Store

Username And Password

Username m2m

Password

Enabled

true

Virtuals Enabled

true

Sec Dash Import Enabled

true

Sec Dash Import Time

Daily: 2:00 AM {Sun Mon Tue Wed Thu Fri Sat}

Platform User

Platform Password

Secure Platform

true

Platform Port

5011

OK

Cancel

New Folder

New

Edit

Discover

Cancel

Add

Match

Certificate Manager

NF23

TRIDIUM

Nav

Config

Services

Drivers

NiagaraNetwork

ProvisioningNwExt

West Building

Apps

Home

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Plant

Schedules

West Building

Station Discovery

Success

2 objects

Discovered

	Station Name	Scheme	Address	Version	Host Model
	NF23_WestBldgF4	foxs	10.10.20.91	4.13.0.158	TITAN
	PackagedChiller	foxs	localhost	4.10.5.14	EDGE10

Database

1 objects

	Name	Exts	Address	Host Model	Version	Status	Health	Server Conn	Virtuals Enabled	Platform Status
	NF23_WestBldgF4		ip:10.10.20.91			{ok}	Fail [null]	Not connected	true	{fault,down}

New FolderNewEditDiscoverCancelAddMatchCertificate Manager

NF23

TRIDIUM

Nav

Config

Services

Drivers

NiagaraNetwork

ProvisioningNwExt

West Building

Apps

Home

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Histories

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West Building

Station Discovery

Success

2 objects

Discovered

	Station Name	Scheme	Address	Version	Host Model
	NF23_WestBldgF4	foxs	10.10.20.91	4.13.0.158	TITAN
	PackagedChiller	foxs	localhost	4.10.5.14	EDGE10

Database

1 objects

	Name	Exts	Address	Host Model	Version	Status	Health	Server Conn	Virtuals Enabled	Platform Status
	NF23_WestBldgF4		ip:10.10.20.91	TITAN	4.13.0.158	{ok}	Ok [04-May-23 9:38 AM BST]	Not connected	true	{fault,down}

New Folder

New

Edit

Discover

Cancel

Add



















Match

Certificate Manager






NF23




TRIDIUM

- ▼ Config
 - ▶ Services
 - ▼ Drivers
 - ▼ NiagaraNetwork
 - ▶ ProvisioningNwExt
 - ▼ West Building
 - ▶ NF23_WestBldgF4
 - ▶ Apps
 - ▶ Home
 - ▶ Files
 - ▶ Histories
 - ▶ Plant
 - ▶ Schedules

Display Name	Value	Commands
 Status	<input data-bbox="828 149 1065 178" type="text" value="{ok}"/>	
 Enabled	<input checked="" data-bbox="828 197 904 225" type="checkbox"/>	
 Fault Cause	<input data-bbox="828 244 1243 272" type="text"/>	
▶  Health	Ok [04-May-23 10:28 AM BST]	
▶  Alarm Source Info	Alarm Source Info	
▶  Monitor	Ping Monitor	
▶  Local Station	NF23_WestBldgSupervisor [ip:10.10.20.10 fox:1911, ip:10.10.20.10 foxs:4912]	
▶  Sys Def Provider	Bog Provider	
▶  Tuning Policies	Niagara Tuning Policy Map	
▶  History Policies	History Network Ext	
▶  Workers	Cyclic Thread Pool Worker	
▶  Virtual Policies	Niagara Virtual Network Ext	
 Persist Fetched Tags	<input checked="" data-bbox="828 715 904 743" type="checkbox"/>	
▶  ProvisioningNwExt	Provisioning Niagara Network Ext	
▶  West Building		

- ▼ Config
 - ▶ Services
 - ▼ Drivers
 - ▼ NiagaraNetwork
 - ▶ ProvisioningNwExt
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 - ▶ Home
 - ▶ Files
 - ▶ Histories
 - ▶ Plant
 - ▶ Schedules

Display Name	Value	Commands
▶ Cache Policy	Niagara Virtual Cache Policy	
Import Virtual Px Files On Demand	<input checked="" type="checkbox"/> true	
Px File Import Overwrite Policy	Checksum ▾	
Px File Import Execution Time	Manual	
Virtual Px File Directory	<input type="text" value="file:^nstations"/>	 
Virtual Px File Media Directory	<input type="text" value="file:^nstations"/>	 
Convert Alarm Hyperlinks To Virtual Form	<input type="radio"/> false	

Display Name	Value	Commands
Cache Policy	Niagara Virtual Cache Policy	
Import Virtual Px Files On Demand	<input checked="" type="checkbox"/> true	
Px File Import Overwrite Policy	Checksum	
Px File Import Execution Time	Manual	
Virtual Px File Directory	<input type="text" value="file:^nstations"/>	
Virtual Px File Media Directory	<input type="text" value="file:^nstations"/>	
Convert Alarm Hyperlinks To Virtual Form	<input type="checkbox"/> false	

- Config
 - Services
 - Drivers
 - NiagaraNetwork
 - ProvisioningNwExt
 - West Building
 - NF23_WestBldgF4
 - Alarm Source Info
 - Client Connection
 - Points
 - Histories
 - Alarms
 - Schedules
 - Users
 - Sys Def
 - Virtual
 - Services
 - Drivers
 - NiagaraNetwork
 - BacnetNetwork
 - alarmSourceInfo
 - monitor
 - historyPolicies
 - bacnetComm
 - localDevice
 - tuningPolicies
 - Floor 4
 - AHU-46
 - AHU-47
 - AHU-48
 - AHU-49
 - AHU-50
 - AHU-51
 - AHU-52
 - AHU-53
 - AHU-54
 - AHU-55
 - AHU-56
 - AHU-57
 - AHU-58
 - AHU-59
 - AHU-60
 - systemLogic
 - Programs
 - Schedules
 - Files
 - Security Dashboard Ext

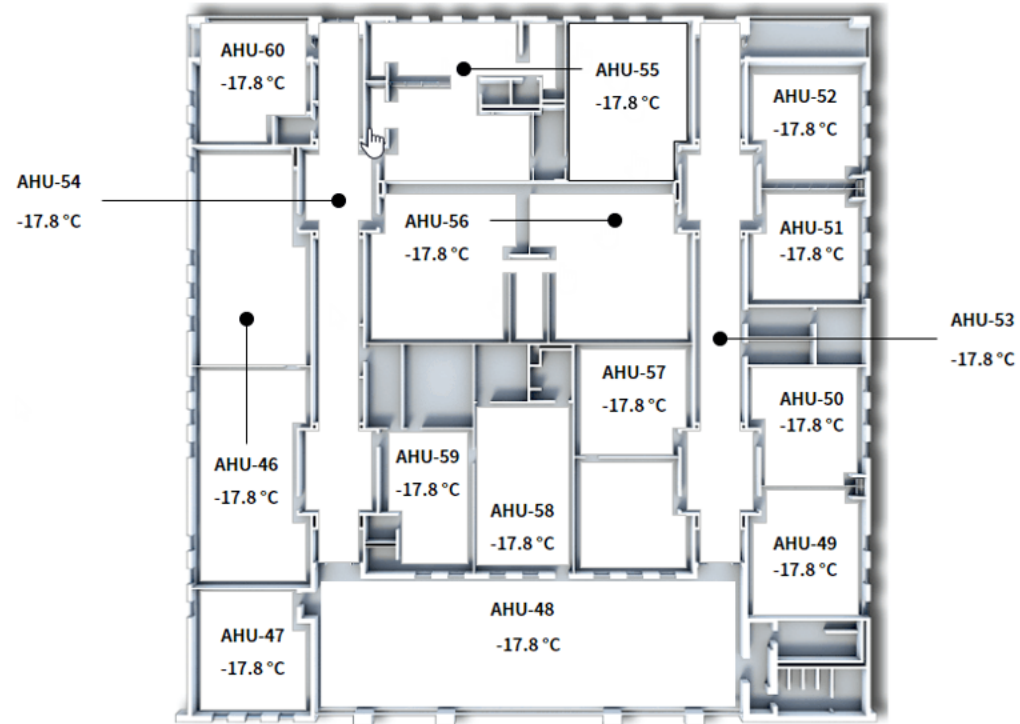
- Config
 - Services
 - Drivers
 - NiagaraNetwork
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 - AHU-49
 - AHU-50
 - AHU-51
 - AHU-52
 - AHU-53
 - AHU-54
 - AHU-55
 - AHU-56
 - AHU-57
 - AHU-58
 - AHU-59
 - AHU-60
 - systemLogic
 - Programs
 - Schedules
 - Files
 - Security Dashboard Ext

Weather Forecast

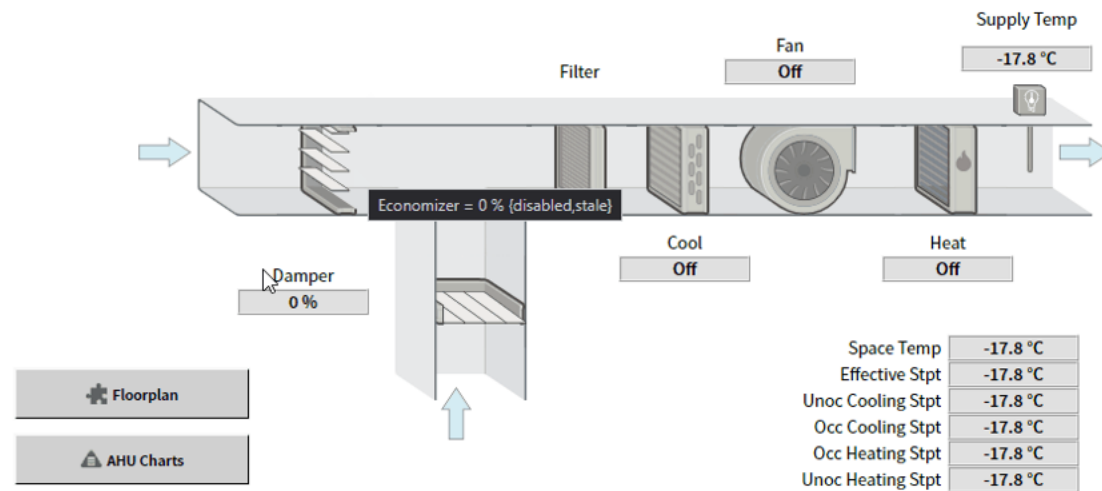


Current -17.8 °C
-17.8 °C/-17.8 °C
Clear
Precip: 0 %

Floor 4 - Graphic

NF
23

Current 22.4 °C
23.9 °C/14.4 °C
Mostly Sunny
Precip: 20 %





Nav

- ▼ Config
 - Services
 - AlarmService
 - BackupService
 - CategoryService
 - JobService
 - SecurityService
 - RoleService
 - UserService
 - AuthenticationService
 - DebugService
 - BoxService
 - FoxService
 - HierarchyService
 - HistoryService
 - AuditHistoryService
 - LogHistoryService
 - ProgramService
 - SearchService
 - TagDictionaryService
 - TemplateService
 - WebService
 - BatchJobService
 - WeatherService
 - PlatformServices
 - Drivers
 - NiagaraNetwork
 - ProvisioningNwExt
 - West Building
 - NF23_WestBldgF4
 - Apps
 - Home
 - Files
 - Histories
 - Plant
 - Schedules

SearchService

n:point



15 Results



Expiry

station:slot:/Services/SecurityService/certificates/tridium/expiry

0.0 {fault}



Expiry

station:slot:/Services/SecurityService/certificates/newcollegesupervisor/expiry

0.0 {fault}



Expiry

station:slot:/Services/SecurityService/certificates/nf23_supervisor/expiry

723.0 {ok}



forecastPrecip

station:slot:/Services/WeatherService/WeatherReport/forecastPrecip

20 % {ok} @ def



PrecipChance

station:slot:/Services/WeatherService/WeatherReport/PrecipChance

20 % {ok}



High

station:slot:/Services/WeatherService/WeatherReport/High

23.9 °C {ok}



State

station:slot:/Services/WeatherService/WeatherReport/State

Mostly Sunny {ok}



WeatherState

station:slot:/Services/WeatherService/WeatherReport/WeatherState

Mostly Sunny {ok} @ def



forecastLow

station:slot:/Services/WeatherService/WeatherReport/forecastLow

14.4 °C {ok} @ def



forecastHigh

station:slot:/Services/WeatherService/WeatherReport/forecastHigh

23.9 °C {ok} @ def



Subtract

station:slot:/Services/WeatherService/WeatherReport/Subtract

22.4 °C {ok}



Or1

station:slot:/Services/WeatherService/WeatherReport/Or1

true {ok}



Or

station:slot:/Services/WeatherService/WeatherReport/Or

true {ok}



Low

station:slot:/Services/WeatherService/WeatherReport/Low

14.4 °C {ok}



Current

station:slot:/Services/WeatherService/WeatherReport/Current

22.4 °C {ok}

NF
23

TRIDIUM



- Nav
- ▼ Config
 - ▼ Services
 - ▶ AlarmService
 - ▶ BackupService
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 - ▶ SecurityService
 - ▶ RoleService
 - ▶ UserService
 - ▶ AuthenticationService
 - ▶ DebugService
 - ▶ BoxService
 - ▶ FoxService
 - ▶ HierarchyService
 - ▶ HistoryService
 - ▶ AuditHistoryService
 - ▶ LogHistoryService
 - ▶ ProgramService
 - ▶ **SearchService**
 - ▶ TagDictionaryService
 - ▶ TemplateService
 - ▶ WebService
 - ▶ BatchJobService
 - ▶ WeatherService
 - ▶ PlatformServices
 - ▼ Drivers
 - ▼ NiagaraNetwork
 - ▶ ProvisioningNwExt
 - ▼ West Building
 - ▶ NF23_WestBldgF4
 - ▶ Apps
 - ▶ Home
 - ▶ Files
 - ▶ Histories
 - ▶ Plant
 - ▶ Schedules

SearchService

n:hasPxView 1 Results

West Building

station:slot:/Drivers/NiagaraNetwork/Building1

- ▼ Config
 - ▼ Services
 - ▶ AlarmService
 - ▶ BackupService
 - ▶ CategoryService
 - ▶ JobService
 - ▶ SecurityService
 - ▶ RoleService
 - ▶ UserService
 - ▶ AuthenticationService
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 - ▶ FoxService
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 - ▶ HistoryService
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 - ▶ WeatherService
 - ▶ PlatformServices
 - ▼ Drivers
 - ▼ NiagaraNetwork
 - ▶ ProvisioningNwExt
 - ▼ West Building
 - ▶ NF23_WestBldgF4
 - ▼ Apps
 - ▶ Home
 - ▶ Files
 - ▶ Histories
 - ▶ Plant
 - ▶ Schedules

Weather Forecast



Current 22.4 °C
23.9 °C/14.4 °C
Mostly Sunny
Precip: 20 %

West Building

NF
23

Image Designed by macrovector / Freepik



- Config
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 - UserService
 - AuthenticationService
 - DebugService
 - BoxService
 - FoxService
 - HierarchyService**
 - HistoryService
 - AuditHistoryService
 - LogHistoryService
 - ProgramService
 - SearchService
 - TagDictionaryService
 - TemplateService
 - WebService
 - BatchJobService
 - WeatherService
 - PlatformServices
 - Drivers
 - NiagaraNetwork
 - ProvisioningNwExt
 - West Building
 - NF23_WestBldgF4
 - Apps
 - Home
 - Files
 - Histories
 - Plant
 - Schedules

| Display Name | Value | Commands |
|--------------------------|--|----------|
| Status | {ok} | |
| Fault Cause | | |
| Enabled | true | |
| Hierarchy Timeout | 0 h 0 m 45 s | |
| Plant | Hierarchy | |
| Query Context | | |
| Status | {ok} | |
| Fault Cause | | |
| Scope | Hierarchy Scope Container | |
| SystemDb | Hierarchy Scope | |
| Scope Ord | sys: | |
| Tags | Hierarchy Tags | |
| Cache Status | Not Cached | |
| Cache Creation Time | null BST | |
| Cache On Station Started | false | |
| buildings | Query Level Def: b:Building | |
| floors | Query Level Def: b:Floor and b:BuildingId = {buildingId} | |
| equip | Relation Level Def: in: hs:siteRef; filter: hs:equip | |
| points | Relation Level Def: in: hs:equipRef | |
| Schedules | Hierarchy | |

Nav

Config

Services

Drivers

Apps

Home

Files

Histories

Plant

Schedules

Services

Actions & Topics

Slot Details

Display Name

Value

Commands

AlarmService

Alarm Service

BackupService

Backup Service

CategoryService

Category Service

JobService

Job Service

SecurityService

Security Service

RoleService

Role Service

UserService

User Service

AuthenticationService

Authentication Service

DebugService

Log Configuration

BoxService

Box Service

FoxService

Fox Service

HierarchyService

Hierarchy Service

HistoryService

History Service

AuditHistoryService

Audit History Service

LogHistoryService

Log History Service

ProgramService

Program Service

SearchService

Search Service

TagDictionaryService

Tag Dictionary Service

TemplateService

Template Service

WebService

Web Service

BatchJobService

Batch Job Service

WeatherService

Weather Service

PlatformServices

Platform Service Container

Palette

alarm

baja

control

history

kitControl

schedule

- Config
- Services
- Drivers
- Apps
- Home
- Files
- Histories
- Plant
- Schedules

- alarm
- baja
- control
- history
- kitControl
- schedule

| Display Name | Value | Commands |
|-----------------------|----------------------------|----------|
| AlarmService | Alarm Service | |
| BackupService | Backup Service | |
| CategoryService | Category Service | |
| JobService | Job Service | |
| SecurityService | Security Service | |
| RoleService | Role Service | |
| UserService | User Service | |
| AuthenticationService | Authentication Service | |
| DebugService | Log Configuration | |
| BoxService | Box Service | |
| FoxService | Fox Service | |
| HierarchyService | Hierarchy Service | |
| HistoryService | History Service | |
| AuditHistoryService | Audit History Service | |
| LogHistoryService | Log History Service | |
| ProgramService | Program Service | |
| SearchService | Search Service | |
| TagDictionaryService | Tag Dictionary Service | |
| TemplateService | Template Service | |
| WebService | Web Service | |
| BatchJobService | Batch Job Service | |
| WeatherService | Weather Service | |
| PlatformServices | Platform Service Container | |

Enter the desired palette name, or select from the dropdown.

niagaraSystemIndex

OK

Cancel

- Config
- Services
- Drivers
- Apps
- Home
- Files
- Histories
- Plant
- Schedules

Palette

- alarm
- baja
- control
- history
- kitControl
- niagaraSystemIndex
 - Typical configuration
 - SystemDbService
 - Unconfigured components
 - Individual components
- schedule

| Display Name | Value | Commands |
|-----------------------|----------------------------|----------|
| AlarmService | Alarm Service | |
| BackupService | Backup Service | |
| CategoryService | Category Service | |
| JobService | Job Service | |
| SecurityService | Security Service | |
| RoleService | Role Service | |
| UserService | User Service | |
| AuthenticationService | Authentication Service | |
| DebugService | Log Configuration | |
| BoxService | Box Service | |
| FoxService | Fox Service | |
| HierarchyService | Hierarchy Service | |
| HistoryService | History Service | |
| AuditHistoryService | Audit History Service | |
| LogHistoryService | Log History Service | |
| ProgramService | Program Service | |
| SearchService | Search Service | |
| TagDictionaryService | Tag Dictionary Service | |
| TemplateService | Template Service | |
| WebService | Web Service | |
| BatchJobService | Batch Job Service | |
| WeatherService | Weather Service | |
| PlatformServices | Platform Service Container | |

Name

SystemDbService

OK Cancel

- Config
- Services
- Drivers
- Apps
- Home
- Files
- Histories
- Plant
- Schedules

Palette

- alarm
- baja
- control
- history
- kitControl
- niagaraSystemIndex
 - Typical configuration
 - SystemDbService**
 - Unconfigured components
 - Individual components
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| Display Name | Value | Commands |
|-------------------------|----------------------------|----------|
| ▶ AlarmService | Alarm Service | |
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| ▶ JobService | Job Service | |
| ▶ SecurityService | Security Service | |
| ▶ RoleService | Role Service | |
| ▶ UserService | User Service | |
| ▶ AuthenticationService | Authentication Service | |
| ▶ DebugService | Log Configuration | |
| ▶ BoxService | Box Service | |
| ▶ FoxService | Fox Service | |
| ▶ HierarchyService | Hierarchy Service | |
| ▶ HistoryService | History Service | |
| ▶ AuditHistoryService | Audit History Service | |
| ▶ LogHistoryService | Log History Service | |
| ▶ ProgramService | Program Service | |
| ▶ SearchService | Search Service | |
| ▶ TagDictionaryService | Tag Dictionary Service | |
| ▶ TemplateService | Template Service | |
| ▶ WebService | Web Service | |
| ▶ BatchJobService | Batch Job Service | |
| ▶ WeatherService | Weather Service | |
| ▶ PlatformServices | Platform Service Container | |
| ▶ SystemDbService | System Db Service | |

- Config
- Services
- Drivers
- Apps
- Home
- Files
- Histories
- Plant
- Schedules

Palette

- alarm
- baja
- control
- history
- kitControl
- niagaraSystemIndex
 - Typical configuration
 - SystemDbService**
 - Unconfigured components
 - Individual components
- schedule

| Display Name | Value | Commands |
|--------------------------------|--|----------|
| Status | {fault} | |
| Fault Cause | Please make a System Database Type Selection | |
| Enabled | true | |
| Health | Fail [null] | |
| Alarm Source Info | Alarm Source Info | |
| Monitor | System Db Ping Monitor | |
| System Database Type Selection | orientSystemDb OrientSystemDb | |
| System Database | Inactive System Db | |
| SystemIndexService | System Index Service | |

Nav

- Config
 - Services
 - Drivers
 - Apps
 - Home
 - Files
 - Histories
 - Plant
 - Schedules

Palette

- alarm
- baja
- control
- history
- kitControl
- niagaraSystemIndex
 - Typical configuration
 - SystemDbService
 - Unconfigured components
 - Individual components
 - schedule

LocalSystemIndexer

Actions & Topics Slot Details

| Display Name | Value | Commands |
|---------------------------|--|----------|
| Status | {disabled} | |
| State | Idle | |
| Enabled | false | |
| Execution Time | 2:00 AM {Sun Mon Tue Wed Thu Fri Sat} | |
| Last Attempt | null BST | |
| Last Success | | |
| Last Failure | | |
| Fault Cause | | |
| Alarm On Failure | | |
| Alarm Source Info | | |
| Default Index Queries | station: slot:/ bql:select * from schedule:AbstractSchedule stop
station: slot:/ neql:n:hasPxView | |
| Use Default Index Queries | true (Merge with Custom) | |
| Custom Index Queries | | |

1. station:|slot:/Drivers/NiagaraNetwork|neql:b:Building

Add

Remove

Move Up

Move Down

OK

Cancel

Driver:NiagaraEdgeLiteStation

Config

Services

Drivers

Apps

Home

Files

Histories

Plant

Schedules

alarm

baja

control

history

kitControl

niagaraSystemIndex

Typical configuration

SystemDbService

Unconfigured components

Individual components

schedule

| Display Name | Value | Commands |
|---------------------------|---|----------|
| Status | {disabled} | |
| State | Idle | |
| Enabled | true | |
| Execution Time | 2:00 AM {Sun Mon Tue Wed Thu Fri Sat} | |
| Last Attempt | null BST | |
| Last Success | null BST | |
| Last Failure | null BST | |
| Fault Cause | | |
| Alarm On Failure | true | |
| Alarm Source Info | Alarm Source Info | |
| Default Index Queries | station:/slot:/bql:{asComponent}
station:/slot:/bql:select * from driver:DeviceNetwork where type != niagaraDriver:NiagaraNetwork
station:/slot:/bql:select * from driver:DeviceFolder where type != niagaraDriver:NiagaraStationFolder
station:/slot:/bql:select * from driver:Device where type != niagaraDriver:NiagaraStation and type != niagaraDriver:NiagaraEdgeLiteStation
station:/slot:/bql:select * from driver:PointFolder where type != niagaraDriver:NiagaraPointFolder
station:/slot:/bql:select * from control:ControlPoint where proxyExt.type != niagaraDriver:NiagaraProxyExt
station:/slot:/bql:select * from schedule:AbstractSchedule stop
station:/slot:/neql:n:hasPxView | |
| Use Default Index Queries | true (Merge with Custom) | |
| Custom Index Queries | station:/slot:/Drivers/NiagaraNetwork neql:b:Building | |

Enabled true

Global Niagara Network Indexer Niagara Network System Indexer

Status {ok}

State Idle

Enabled true

Execution Time 2:00 AM {Sun Mon Tue Wed Thu Fri Sat}

Last Attempt null BST

Last Success null BST

Last Failure null BST

Fault Cause

Alarm On Failure true

Alarm Source Info Alarm Source Info

Default Index Queries

station:|slot:/bql:{asComponent}
station:|slot:/bql:select * from driver:DeviceNetwork where type != niagaraDriver:NiagaraNetwork
station:|slot:/bql:select * from driver:DeviceFolder where type != niagaraDriver:NiagaraStationFolder
station:|slot:/bql:select * from driver:Device where type != niagaraDriver:NiagaraStation and type != niagaraDriver:NiagaraEdgeLiteStation
station:|slot:/bql:select * from driver:PointFolder where type != niagaraDriver:NiagaraPointFolder
station:|slot:/bql:select * from control:ControlPoint where proxyExt.type != niagaraDriver:NiagaraProxyExt
station:|slot:/bql:select * from schedule:AbstractSchedule stop
station:|slot:/neql:n:hasPxView

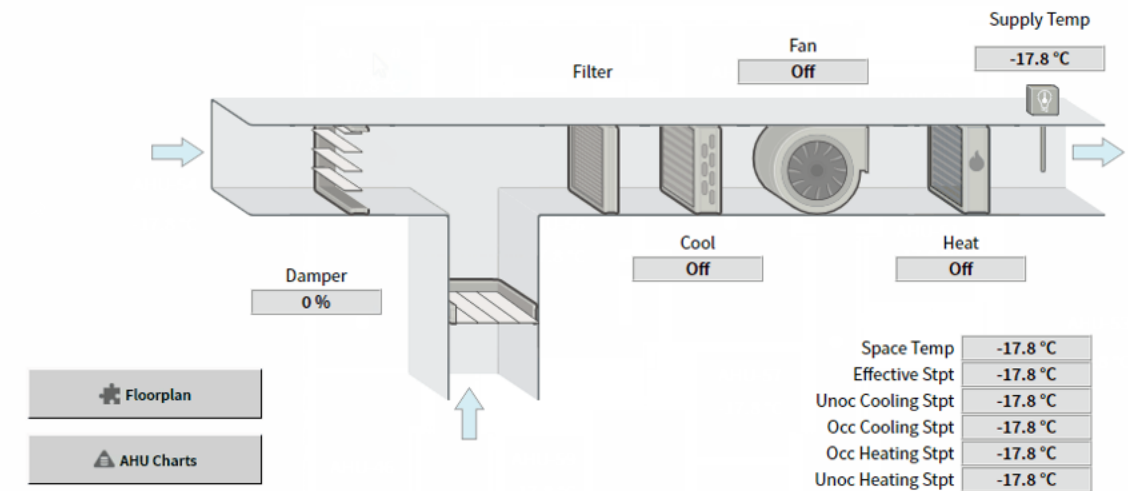
Use Default Index Queries true (Merge with Custom)

Custom Index Queries

Global Index Timeout 2 h 0 m 0 s

Include Reachable Stations false

- alarm
- baja
- control
- history
- kitControl
- niagaraSystemIndex
- schedule



Floorplan

AHU Charts

- Config
 - Services
 - Drivers
 - Apps
- Home
- Files
- Histories
- Plant
 - West Building
 - Floor 4
 - AHU-46
 - AHU-47
 - AHU-48
 - AHU-49
 - AHU-50
 - AHU-51
 - AHU-52
 - AHU-53
 - AHU-54
 - AHU-55
 - AHU-56
 - AHU-57
 - AHU-58
 - AHU-59
 - AHU-60
- Schedules



Nav

Loading...

Scheduler

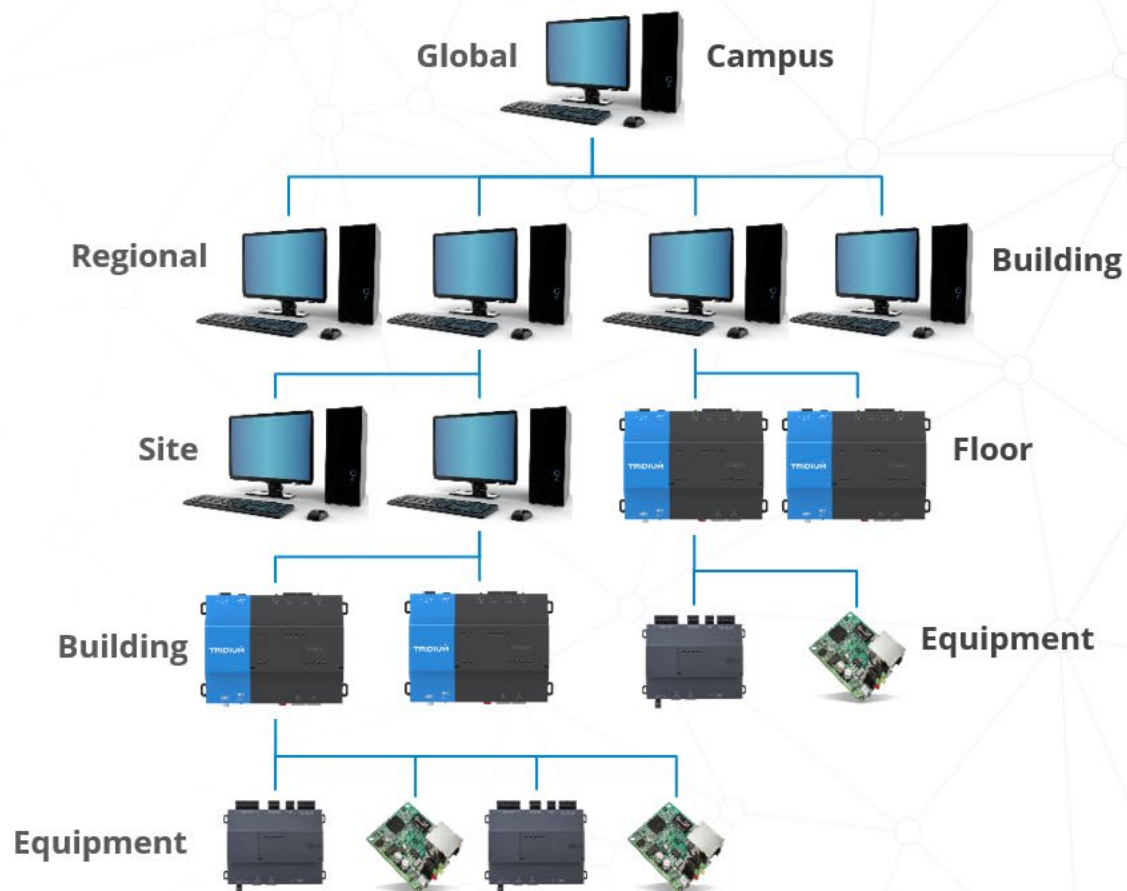
- ▼ Config
 - ▶ Services
 - ▶ Drivers
 - ▶ Apps
- ▶ Home
- ▶ Files
- ▶ Histories
- ▼ Plant
 - ▼ West Building
 - ▼ Floor 4
 - ▶ AHU-46
 - ▶ AHU-47
 - ▶ AHU-48
 - ▶ AHU-49
 - ▶ AHU-50
 - ▶ AHU-51
 - ▶ AHU-52
 - ▶ AHU-53
 - ▶ AHU-54
 - ▶ AHU-55
 - ▶ AHU-56
 - ▶ AHU-57
 - ▶ AHU-58
 - ▶ AHU-59
 - ▶ AHU-60
- ▼ Schedules
 - ▼ West Building
 - ▶ FourthFloorWeekly



The Multi-tiered System Database

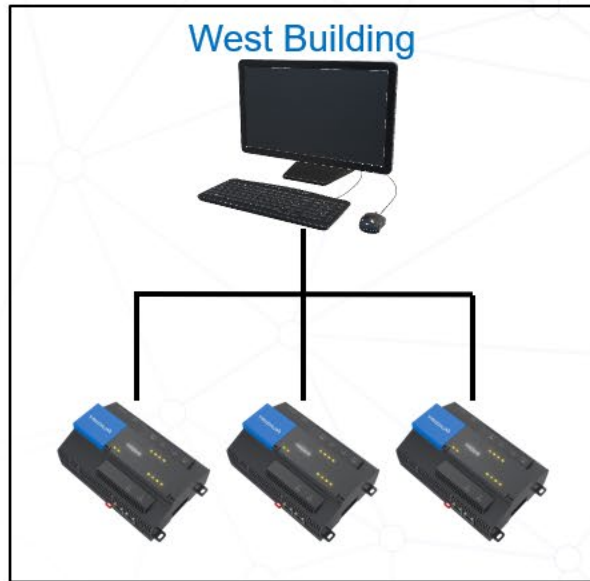
Available with 4.13

The New Multi-tiered System Database

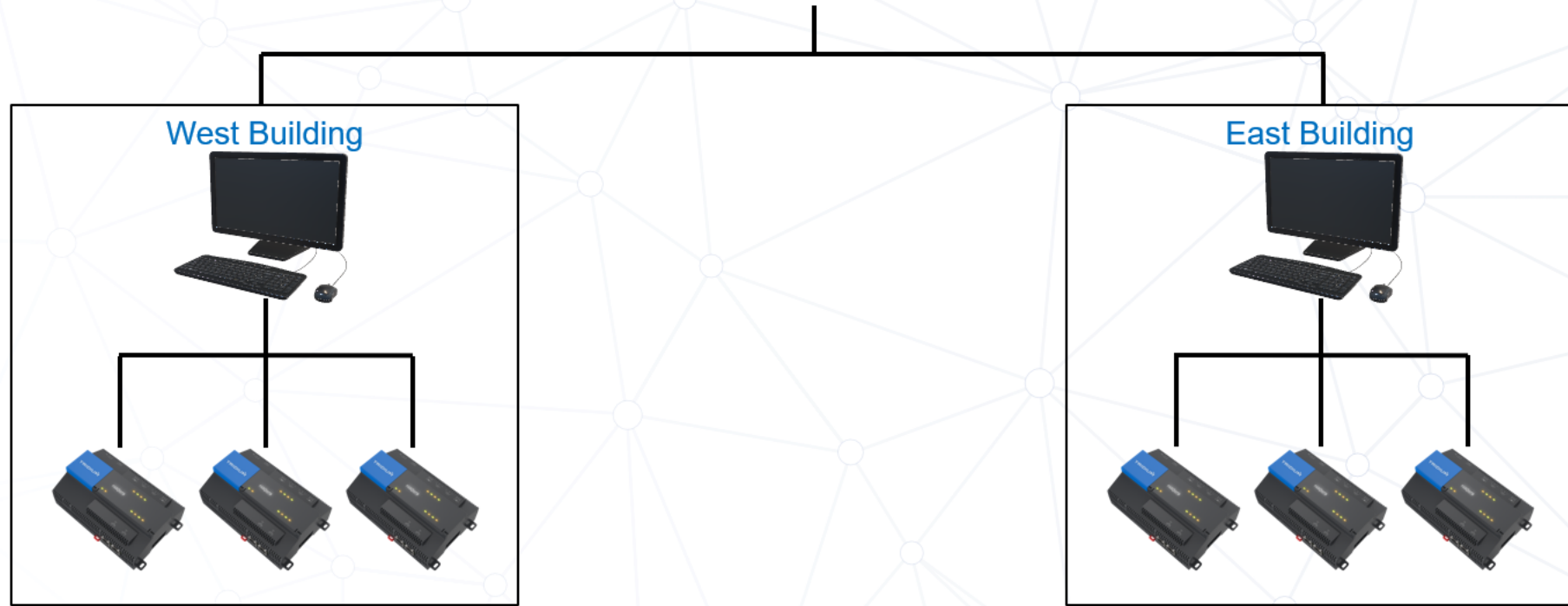


- Niagara System Architecture Flexes to Any Layout
- Query Entire Niagara System From A Single Database Location
- Expedite UI Configuration Through Hierarchies and Virtual Px Views

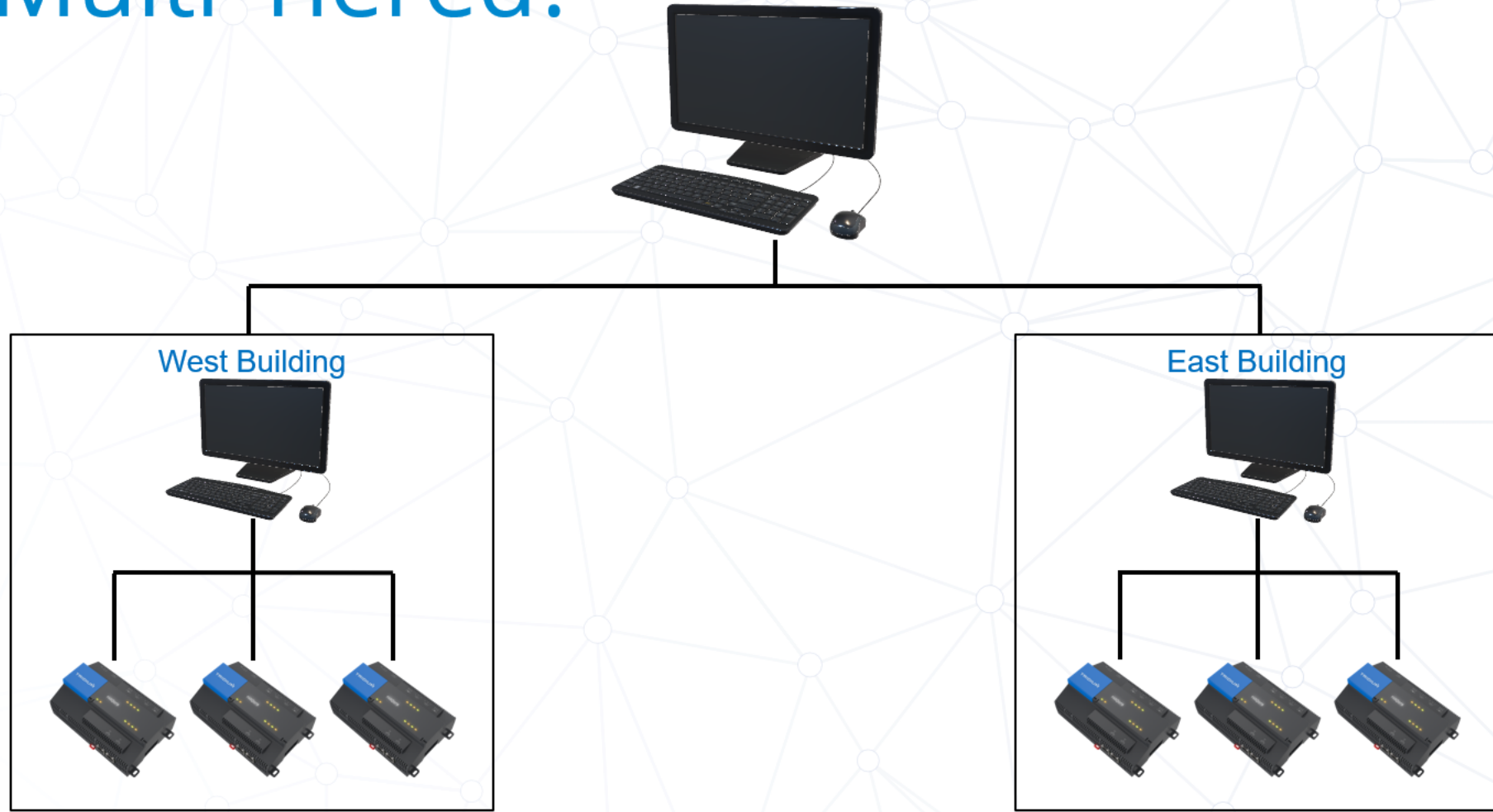
Why Multi-Tiered?



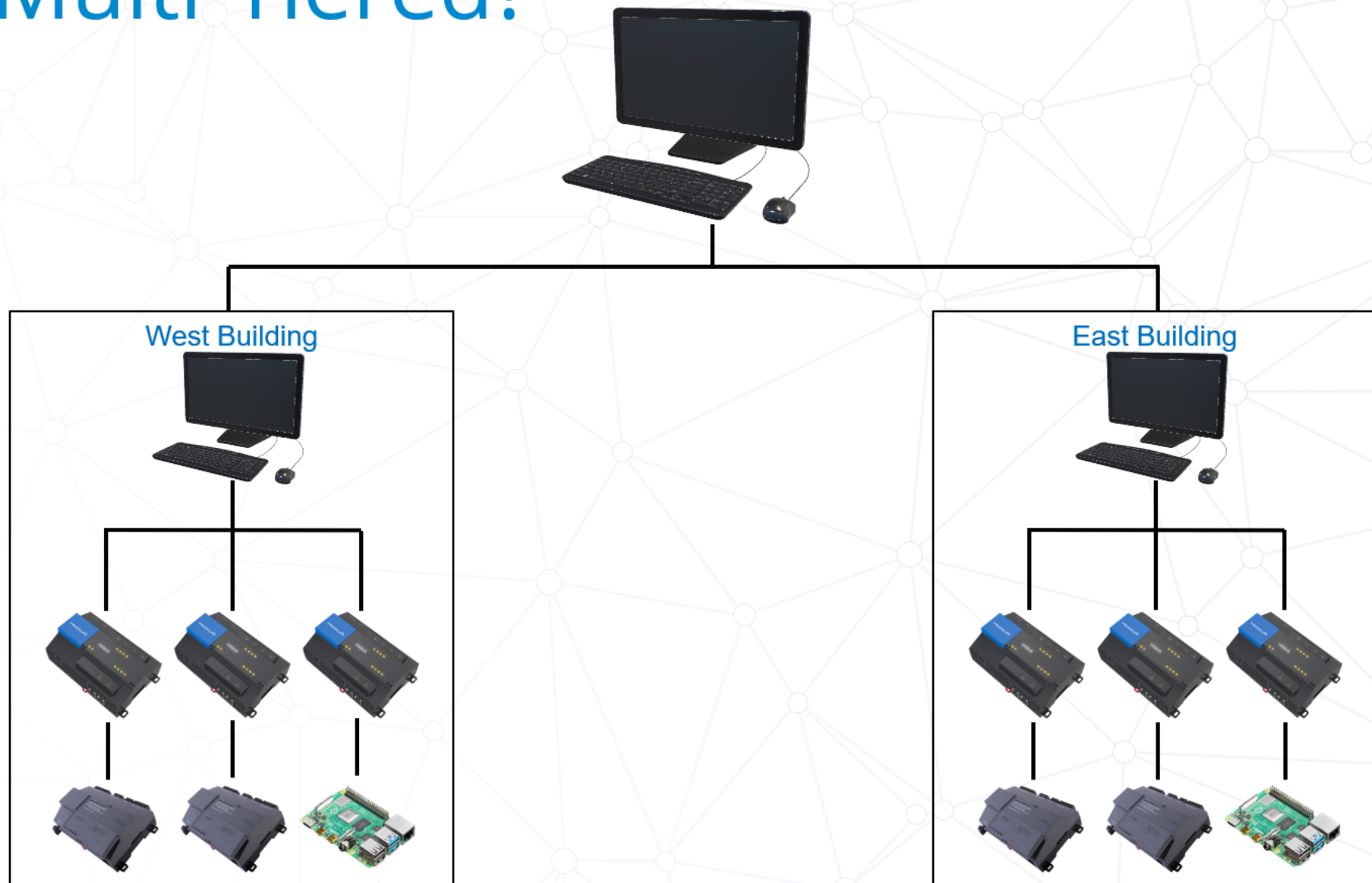
Why Multi-Tiered?



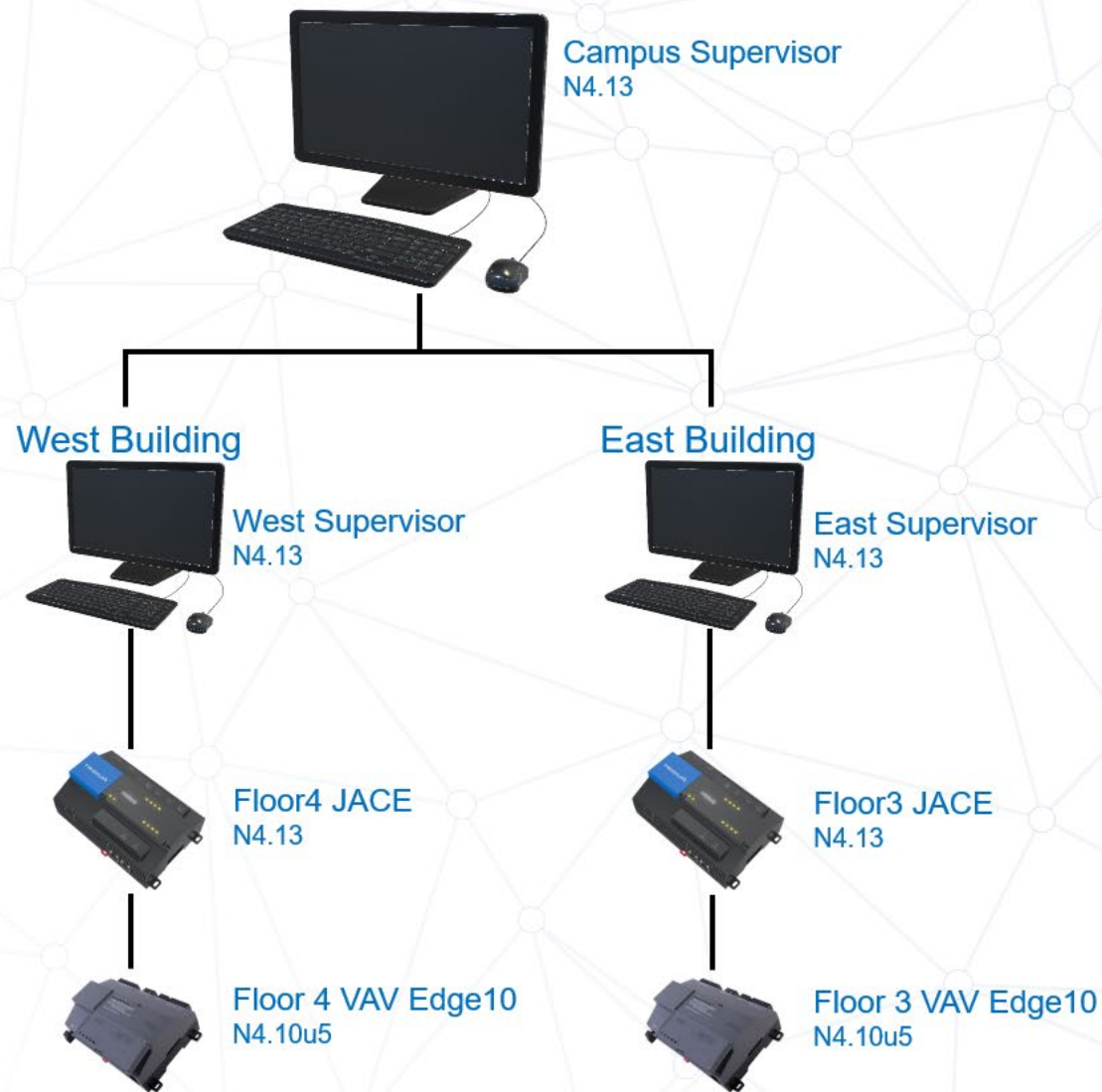
Why Multi-Tiered?



Why Multi-Tiered?



Demo Set-Up





10.10.20.10/ord/station:%7Cslot:/Drivers/NiagaraNetwork%7Cview:niagaraDriver:NiagaraStationUxManager

Station Manager

Nav

Config

Services

Drivers

NiagaraNetwork

Apps

Home

Home

Files

Histories

Plant

Schedules

NiagaraNetwork

Database

2 objects

| Name | Exts | Address | Host Model | Version | Status | Health | Server Conn | Virtuals Enabled | Platform Status |
|-------------------------|------|----------------|-------------|------------|--------|----------------------------|---------------|------------------|-----------------|
| NF23_WestBldgSupervisor | | ip:10.10.20.10 | Workstation | 4.13.0.158 | {ok} | Ok [05-May-23 9:59 AM BST] | Not connected | true | {fault,down} |
| NF23_EastBldgSupervisor | | ip:10.10.20.10 | Workstation | 4.13.0.158 | {ok} | Ok [05-May-23 9:58 AM BST] | Connected | true | {fault,down} |

New Folder

New

Edit

Discover

Cancel

Add

Match

Certificate Manager

HomeWest BuildingEast BuildingNiagaraNetworkNiagaraNetworkNiagaraNetworkNiagaraNetwork

10.10.20.10:444/ord/station:%7Cslot/Drivers/NiagaraNetwork/Building1%7Cview:niagaraDriver:NiagaraStationUxManager

Station Manager

Nav

ConfigHomeFilesHistoriesPlantSchedules

West Building

Database2 objects

| Name | Exts | Address | Host Model | Version | Status | Health | Server Conn | Virtuals Enabled | Platform Status |
|-----------------------|------|----------------|-------------|------------|--------|----------------------------|---------------|------------------|-----------------|
| NF23_WestBldgF4 | | ip:10.10.20.91 | TITAN | 4.13.0.158 | {ok} | Ok [05-May-23 9:59 AM BST] | Not connected | true | {fault,down} |
| NF23_CampusSupervisor | | ip:10.10.20.10 | Workstation | 4.13.0.158 | {ok} | Ok [05-May-23 9:59 AM BST] | Not connected | true | {fault,down} |

New FolderNewEditDiscoverCancelAddMatchCertificate Manager

HomeWest BuildingEast BuildingNiagaraNetworkNiagaraNetworkNiagaraNetworkNiagaraNetwork

10.10.20.10:446/ord/station:%7Cslot/Drivers/NiagaraNetwork/Building2%7Cview:niagaraDriver:NiagaraStationUxManager

Station Manager

Nav

East Building

Database2 objects

| Name | Exts | Address | Host Model | Version | Status | Health | Server Conn | Virtuals Enabled | Platform Status |
|---------------------------------|------|----------------|-------------|------------|--------|----------------------------|---------------|------------------|-----------------|
| NF23_EastBldgF3 | | ip:10.10.20.92 | TITAN | 4.13.0.158 | {ok} | Ok [05-May-23 9:59 AM BST] | Not connected | true | {fault,down} |
| NF23_CampusSupervisor | | ip:10.10.20.10 | Workstation | 4.13.0.158 | {ok} | Ok [05-May-23 9:59 AM BST] | Not connected | true | {fault,down} |

[New Folder](#)[New](#)[Edit](#)[Discover](#)[Cancel](#)[Add](#)[Match](#)[Certificate Manager](#)

HomeWest BuildingEast BuildingNiagaraNetworkNiagaraNetworkNiagaraNetworkNiagaraNetwork

10.10.20.91/ord/station:%7Cslot:/Drivers/NiagaraNetwork%7Cview:niagaraDriver:NiagaraStationUxManager

Station Manager

Nav

Config

Services

Drivers

NiagaraNetwork

BacnetNetwork

systemLogic

Programs

Schedules

Home

Files

Histories

Building 1

Haystack

NiagaraNetwork

Database

2 objects

| Name | Exts | Address | Host Model | Version | Status | Health | Server Conn | Virtuals Enabled |
|-------------------------|------|----------------|-------------|------------|--------|----------------------------|---------------|------------------|
| NF23_WestBldgSupervisor | | ip:10.10.20.10 | Workstation | 4.13.0.158 | {ok} | Ok [05-May-23 9:58 AM BST] | Not connected | true |
| WestPackagedChiller | | ip:10.10.20.95 | EDGE10 | 4.10.5.14 | {ok} | Ok [05-May-23 9:59 AM BST] | Not connected | true |

New Folder

New

Edit

Discover

Cancel

Add

Match

Certificate Manager

HomeWest BuildingEast BuildingFloorplanNiagaraNetworkNiagaraNetworkNiagaraNetworkNiagaraNetwork

10.10.20.92/ord/station:%7Cslot/Drivers/NiagaraNetwork%7Cview:niagaraDriver:NiagaraStationUxManager

Station Manager

Nav

Config

Services

Drivers

NiagaraNetwork

BacnetNetwork

systemLogic

Programs

Schedules

Home

Files

Histories

Plant

NiagaraNetwork

Database

2 objects

| Name | Exts | Address | Host Model | Version | Status | Health | Server Conn | Virtuals Enabled |
|-------------------------|------|----------------|-------------|------------|--------|----------------------------|---------------|------------------|
| NF23_EastBldgSupervisor | | ip:10.10.20.10 | Workstation | 4.13.0.158 | {ok} | Ok [05-May-23 9:58 AM BST] | Not connected | true |
| EastPackagedChiller | | ip:10.10.20.96 | EDGE10 | 4.10.5.14 | {ok} | Ok [05-May-23 9:58 AM BST] | Not connected | true |

New Folder

New

Edit

Discover

Cancel

Add

Match

Certificate Manager

HomeWest BuildingEast BuildingFloorplanFloorplanNiagaraNetworkNiagaraNetwork

10.10.20.95/ord/station:%7Cslot:/Drivers/NiagaraNetwork%7Cview:webEditors:MultiSheet

NavNiagaraNetwork

ConfigServicesDriversNiagaraNetworkEdgeIoNetworkNrioNetworkAppsHomeFilesHistoriesPlant

Property SheetActions & TopicsSlot Details

| Display Name | Value | Commands |
|----------------------|---|----------|
| Status | {ok} | |
| Enabled | <input checked="" type="checkbox"/> true | |
| Fault Cause | | |
| Health | Ok [05-May-23 8:58 AM UTC] | |
| Alarm Source Info | Alarm Source Info | |
| Monitor | Ping Monitor | |
| Local Station | WestPackagedChiller [ip:10.10.20.95 fox:1911, ip:10.10.20.95 foxs:4911] | |
| Sys Def Provider | Bog Provider | |
| Tuning Policies | Niagara Tuning Policy Map | |
| History Policies | History Network Ext | |
| Workers | Cyclic Thread Pool Worker | |
| Virtual Policies | Niagara Virtual Network Ext | |
| Persist Fetched Tags | <input type="checkbox"/> false | |
| NF23_WestBldgF4 | Niagara Station | |


https://10.10.20.95/ord/station:%7Cslot:/Drivers/NiagaraNetwork/NF23_WestBldgF4

NF23_WestBldgF4

Nav


Chiller

- Config
 - Services
 - Drivers
 - NiagaraNetwork
 - EdgeloNetwork
 - NrioNetwork
 - Apps
- Home
 - Files
 - Histories
 - Plant


 Packaged Chiller Inc

West Building Chiller


Off
Fault




Off
Fault




Return Temp
11.2 °C



Flow Temp
11.2 °C



Off
Fault





Home

Login

Login

Floorplan

Floorplan

Chiller

Chiller

10.10.20.10/ord/station:%7Cslot/Home%7Cview:Home

Home

Home

Config

Home


Files

Histories

Plant

Schedules

Weather Forecast




Current 6.7 °C
16.7 °C/5.0 °C
Rain
Precip: 46 %

Home

NF
23

Image Designed by macrovector / Freepik



Services

Login

Login

Floorplan

Floorplan

Chiller

Chiller

10.10.20.10/ord/station:%7Cslot/Services%7Cview.webEditors:MultiSheet

Nav

Services

Config

Home

Files

Histories

Plant

Schedules

Palette

alarm

baja

control

history

kitControl

niagaraSystemIndex

Typical configuration

SystemDbService

Unconfigured components

Individual components

schedule

Display Name

Value

Commands

AlarmService

Alarm Service

BackupService

Backup Service

CategoryService

Category Service

JobService

Job Service

SecurityService

Security Service

RoleService

Role Service

UserService

User Service

AuthenticationService

Authentication Service

DebugService

Log Configuration

BoxService

Box Service

FoxService

Fox Service

HierarchyService

Hierarchy Service

HistoryService

History Service

AuditHistoryService

Audit History Service

LogHistoryService

Log History Service

ProgramService

Program Service

SearchService

Search Service

TagDictionaryService

Tag Dictionary Service

TemplateService

Template Service

WebService

Web Service

BatchJobService

Batch Job Service

WeatherService

Weather Service

PlatformServices

Platform Service Container

SystemDbService

Property Sheet

Actions & Topics

Slot Details

SystemDbService

Login

Login

Floorplan

Floorplan

Chiller

Chiller

10.10.20.10/ord/station:%7Cslot/Services/SystemDbService%7Cview:webEditors:MultiSheet

Nav

SystemDbService

Property Sheet

Actions & Topics

Slot Details

| Display Name | Value | Commands |
|--------------------------------|-------------------------------|----------|
| Status | {ok} | |
| Fault Cause | Status | |
| Enabled | true | |
| Health | Ok [05-May-23 10:11 AM BST] | |
| Alarm Source Info | Alarm Source Info | |
| Monitor | System Db Ping Monitor | |
| System Database Type Selection | orientSystemDb OrientSystemDb | |
| System Database | Orient System Db | |
| SystemIndexService | System Index Service | |

Palette

alarm

baja

control

history

kitControl

niagaraSystemIndex

Typical configuration

SystemDbService

Unconfigured components

Individual components

schedule

10.10.20.10/ord/station:%7Cslot:/Services/SystemDbService/SystemIndexService/NiagaraNetworkSystemIndexSource%7Cview:webEditors:MultiSheet

Nav

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Palette

alarm

baja

control

history

kitControl

niagaraSystemIndex

Typical configuration

SystemDbService

Unconfigured components

Individual components

schedule

NiagaraNetworkSystemIndexSource

StateIdle

Enabledtrue

Execution Time2:00 AM {Sun Mon Tue Wed Thu Fri Sat}

Last Attempt05-May-2310:12 AM BST

Last Success05-May-2310:12 AM BST

Last Failurenull BST

Fault Cause

Alarm On Failuretrue

Alarm Source InfoAlarm Source Info

Default Index Queriesstation:|slot:/|bql:{asComponent}
station:|slot:/|bql:select * from driver:DeviceNetwork where type != niagaraDriver:NiagaraNetwork
station:|slot:/|bql:select * from driver:DeviceFolder where type != niagaraDriver:NiagaraStationFolder
station:|slot:/|bql:select * from driver:Device where type != niagaraDriver:NiagaraStation and type != niagaraDriver:NiagaraEdgeLiteStation
station:|slot:/|bql:select * from driver:PointFolder where type != niagaraDriver:NiagaraPointFolder
station:|slot:/|bql:select * from control:ControlPoint where proxyExt.type != niagaraDriver:NiagaraProxyExt
station:|slot:/|bql:select * from schedule:AbstractSchedule stop
station:|slot:/|neql:n:hasPxView

Use Default Index Queriestrue (Merge with Custom)

Custom Index Queries

Global Index Timeout2 h 0 m 0 s

Include Reachable Stationsfalse

Global Index Last Result1 of 2 eligible NiagaraStations
successfully responded to the
last global system index operation.
NiagaraStations that were down: 0

Actions & TopicsSlot Details

10.10.20.10/ord/station:%7Cslot/Services/SystemDbService/SystemIndexService/NiagaraNetworkSystemIndexSource%7Cview:webEditors:MultiSheet

Nav

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Plant

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alarm

baja

control

history

kitControl

niagaraSystemIndex

Typical configuration

SystemDbService

Unconfigured components

Individual components

schedule

NiagaraNetworkSystemIndexSource

StateIdle

Enabledtrue

Execution Time2:00 AM {Sun Mon Tue Wed Thu Fri Sat}

Last Attempt05-May-2310:12 AM BST

Last Success05-May-2310:12 AM BST

Last Failurenull BST

Fault Cause

Alarm On Failuretrue

Alarm Source InfoAlarm Source Info

Default Index Queriesstation:|slot:/|bql:{asComponent}
station:|slot:/|bql:select * from driver:DeviceNetwork where type != niagaraDriver:NiagaraNetwork
station:|slot:/|bql:select * from driver:DeviceFolder where type != niagaraDriver:NiagaraStationFolder
station:|slot:/|bql:select * from driver:Device where type != niagaraDriver:NiagaraStation and type != niagaraDriver:NiagaraEdgeLiteStation
station:|slot:/|bql:select * from driver:PointFolder where type != niagaraDriver:NiagaraPointFolder
station:|slot:/|bql:select * from control:ControlPoint where proxyExt.type != niagaraDriver:NiagaraProxyExt
station:|slot:/|bql:select * from schedule:AbstractSchedule stop
station:|slot:/|neql:n:hasPxView

Use Default Index Queriestrue (Merge with Custom)

Custom Index Queries

Global Index Timeout2 h 0 m 0 s

Include Reachable Stationstrue

Global Index Last Result2 of 2 eligible NiagaraStations
successfully responded to the
last global system index operation.
NiagaraStations that were down: 0

Actions & Topics

10.10.20.10/ord/station:%7Cslot/Services/SystemDbService/SystemIndexService/NiagaraNetworkSystemIndexSource%7Cview:webEditors:MultiSheet

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Schedules

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baja

control

history

kitControl

niagaraSystemIndex

Typical configuration

SystemDbService

Unconfigured components

Individual components

schedule

NiagaraNetworkSystemIndexSource

StateIdle

Enabledtrue

Execution Time2:00 AM {Sun Mon Tue Wed Thu Fri Sat}

Last Attempt05-May-2310:12 AM BST

Last Success05-May-2310:12 AM BST

Last Failurenull BST

Fault Cause

Alarm On Failuretrue

Alarm Source InfoAlarm Source Info

Default Index Queriesstation:|slot:/|bql:(asComponent)
station:|slot:/|bql:select * from driver:DeviceNetwork where type != niagaraDriver:NiagaraNetwork
station:|slot:/|bql:select * from driver:DeviceFolder where type != niagaraDriver:NiagaraStationFolder
station:|slot:/|bql:select * from driver:Device where type != niagaraDriver:NiagaraStation and type != niagaraDriver:NiagaraEdgeLiteStation
station:|slot:/|bql:select * from driver:PointFolder where type != niagaraDriver:NiagaraPointFolder
station:|slot:/|bql:select * from control:ControlPoint where proxyExt.type != niagaraDriver:NiagaraProxyExt
station:|slot:/|bql:select * from schedule:AbstractSchedule stop
station:|slot:/|neql:n:hasPxView

Use Default Index Queriestrue (Merge with Custom)

Custom Index Queries

Global Index Timeout2 h 0 m 0 s

Include Reachable Stationstrue

Global Index Last Result0 of 2 eligible NiagaraStations
successfully responded to the
last global system index operation.
NiagaraStations that were down: 0

4 of 4 eligible Reachable Stations
successfully responded to the
last global system index operation.
Reachable Stations that were down: 0

Property Sheet

Actions & Topics

Slot Details

Nav

Floorplan

Config

Services

Drivers

Apps

Home

Home

Files

Histories

Plant

West Building

Floor 4

AHU-46

AHU-47

AHU-48

AHU-49

AHU-50

AHU-51

AHU-52

AHU-53

AHU-54

AHU-55

AHU-56

AHU-57

AHU-58

AHU-59

AHU-60

Roof

East Building

Schedules

Weather Forecast

Current 22.4 °C

23.9 °C/14.4 °C

Mostly Sunny

Precip: 20 %

Floor 4 - Graphic

NF 23

AHU-60

-17.8 °C

AHU-55

-17.8 °C

AHU-52

-17.8 °C

AHU-54

-17.8 °C

AHU-56

-17.8 °C

AHU-51

-17.8 °C

AHU-53

-17.8 °C

AHU-46

-17.8 °C

AHU-59

-17.8 °C

AHU-57

-17.8 °C

AHU-50

-17.8 °C

AHU-49

-17.8 °C

AHU-47

-17.8 °C

AHU-58

-17.8 °C

AHU-48

-17.8 °C

Chiller

Login

Login

Floorplan

Floorplan

Chiller

Chiller

10.10.20.10/ord/hierarchy/Plant/nospace\$3aNF23_WestBldgSupervisor\$7cslot\$3a\$2fDrivers\$2fNiagaraNetwork\$2fBuilding1/nospace\$3aWestPackagedChiller\$7cslot\$3a\$2fDrivers\$2fEdgeloNetwork\$2fRoof/nospace\$3aWestPackagedChiller\$7cslot\$3a\$2fDriv...

Chiller

Nav

Chiller

Config

Services

Drivers

Apps

Home

Home

Files

Histories

Plant

West Building

Floor 4

Roof

West Building Chiller

East Building

Floor 3

AHU-31

AHU-32

AHU-33

AHU-34

AHU-35

AHU-36

AHU-37

AHU-38

AHU-39

AHU-40

AHU-41

AHU-42

AHU-43

AHU-44

AHU-45

Roof

Schedules

Packaged Chiller Inc

West Building Chiller

Off
Fault

Off
Fault

Return Temp
11.2 °C

Flow Temp
11.2 °C

FourthFloorWeekly

Login

Login

Floorplan

Floorplan

Chiller

Chiller

10.10.20.10/ord/hierarchy/Schedules/nspace\$3aNF23_WestBldgSupervisor\$7cslot\$3a\$2fDrivers\$2fNiagaraNetwork\$2fBuilding1/nspace\$3aNF23_WestBldgF4\$7cslot\$3a\$2fDrivers\$2fBacnetNetwork\$2fFloor/nspace\$3aNF23_WestBldgF4\$7cslot\$3a\$2fSch...

Nav

FourthFloorWeekly

Weekly Schedule

Special Events

Summary

Sun

Mon

Tue

Wed

Thu

Fri

Sat

3:00 AM

6:00 AM

9:00 AM

12:00 PM

3:00 PM

6:00 PM

9:00 PM

Occupied
7:00 AM - 6:00 PM

Occupied
7:00 AM - 6:00 PM

Occupied
7:00 AM - 6:00 PM

Occupied
7:00 AM - 6:00 PM

Occupied
7:00 AM - 6:00 PM

Occupied
7:30 AM - 1:30 PM

Event Start 12:00 AM

Event Finish 12:00 AM

Event Output Occupied

null

ThirdFloorWeekly

Login

Login

Floorplan

Floorplan

Chiller

Chiller

10.10.20.10/ord/hierarchy/Schedules/nspace\$3aNF23_EastBldgSupervisor\$7cslot\$3a\$2fDrivers\$2fNiagaraNetwork\$2fBuilding2/nspace\$3aNF23_EastBldgF3\$7cslot\$3a\$2fDrivers\$2fBacnetNetwork\$2fFloor/nspace\$3aNF23_EastBldgF3\$7cslot\$3a\$2fSchedu...

Nav

ThirdFloorWeekly

Weekly Schedule

Special Events

Summary

Sun

Mon

Tue

Wed

Thu

Fri

Sat

3:00 AM

6:00 AM

9:00 AM

12:00 PM

3:00 PM

6:00 PM

9:00 PM

Occupied
7:00 AM - 6:00 PM

Occupied
7:00 AM - 6:00 PM

Occupied
7:00 AM - 6:00 PM

Occupied
7:00 AM - 6:00 PM

Occupied
7:00 AM - 6:00 PM

Occupied
7:00 AM - 1:00 PM

Event Start 12:00 AM

Event Finish 12:00 AM

Event Output Occupied

null

Home

Login

Login

Floorplan

Floorplan

Chiller

Chiller

10.10.20.10/ord/station:%7Cslot:/Home%7Cview:Home

Home

Weather Forecast

Current 6.7 °C

16.7 °C/5.0 °C

Rain

Precip: 46 %

NF 23

Home

Image Designed by macrovector / Freepik

Nav

Home

Config

Services

Drivers

Apps

Home

Files

Histories

Plant

West Building

Floor 4

Roof

West Building Chiller

East Building

Floor 3

Roof

East Building Chiller

Schedules

West Building

Floor 4

FourthFloorWeekly


Roof

East Building

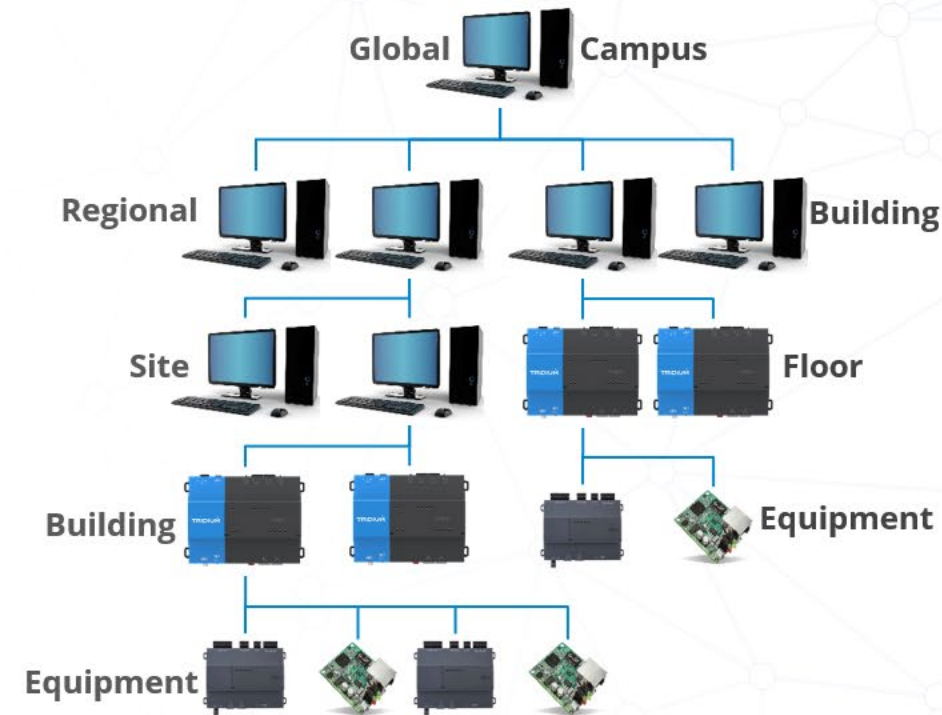
Floor 3

ThirdFloorWeekly

Roof



Summary



- System Database was release with 4.6
 - Allows rapid Supervisor creation/deployment for single Supervisor to multiple stations
- Multi-tiered available with 4.13
 - Allowing even more reach into your Niagara architecture
- Included in the standard Supervisor license

Less engineering time, lower costs,
more project wins!



CONNECTING
THE WORLD

Questions?



CONNECTING
THE WORLD