Mongo Db connector specifics

Organisation of the collections

MongoDb is a database composed of collections, each containing documents. Each document is in JSON format.

Niagara dedicates a collection to each data type and container (Devices) and a collection for the application of commands (Messages).



The "Devices" collection can represent a device, a Folder...

Organisation of documents

Document type Device

id: unique identifiertags: JSON object containing a list of keys/values

References document type

id: unique identifier
uuid: unique identifier of the alarm in
Linksper
deviceld: identifier of the associated
device
alarmClass: name of the alarm group
alarmTransition: alarm status

Points document

id: unique identifier
tags: JSON object containing a list of
keys/values
deviceld: identifier of the associated
device
status: state of the point at time t
value: value of the point at time t
timestamp: last modification of the
status or value

Alarms template document

id: unique identifier
uuid: unique identifier of the alarm in
Linksper
deviceld: identifier of the associated
device
alarmClass: name of the alarm group
alarmTransition: alarm status

Message type document

```
{
  "deviceId":"< DeviceId>"
  "pointId": "< PointId>",
  "type": "POINT_ACTION",
  "payload":{
    "action": "< PointAction>", // SET, AUTO, OVERRIDE ....
    "value": <Value>,
    "duration": <duration in seconds>.
}
}
```

Example of documents

Example of a device representing a room

```
id: "@uuo6Avc187DMvOKaEbpni"

* tags: Object

syncSource: "Local"
occupancyNumber-Peak: "0,00"
occupancyNumber-Peak: "0,00"
displayMame: "0022 Sirius"
type: "bitistructure: Mode"
ordInSession: "Station: [h:286715"
ifcSpace: "M"
deviceId: "0suuo6Avc187DMvDKaEbpni"
space: "0022 Sirius"
building: "Vayanoata"
occupancyType: ""
netPlannedArea: "0,00"
zone: "Salles de réundon"
station: "officestib"
definition: "space"
id: "hi:386715"
floon: "00"
subtevel: "1"
isExternal: "false"
level: "a"
spaceUse: "0"
node: "W"
site: "Vayandata - DEV"
occupancyTimePerDay: "0,00"
name: "MOSAYQTVVNQYZR2R568e"
```

Example of a CO2 measuring point

Example of an alarm

```
_id:objectId("Sef3172f916a36005474c7fe")

uuid: "53634f7b-fdd4-49db-99e1-841d9380ed1"
ackBqt: "null"
ackBqt: "1970-81-91T01:09:00.000+91:00"
ackBqt: "1970-91-91T01:09:00.000+91:00"
ackBqt: "true
ackState: "unacked"
alarmClass: "of*enult Alarm Class"
alarmTansition: "of*fnormal"
alarmValue: "f91se"
lastUpdate: "2020-06-24T1:17:53.671+02:00"
msgText: ""
normalTime: "24-Jun-20 11:17 AM CEST"
presentValue: "10-20-11:17 AM CEST"
presentValue: "C4-Jun-20 11:17 AM CEST"
presentValue: "OpenClosecontact"
sourceState: "Normal"
timestamp: "2020-06-24T1:104:47.244+02:00"
controlDointType: "SEMSON"
equipmentControlCategory: "OPENING"
```