

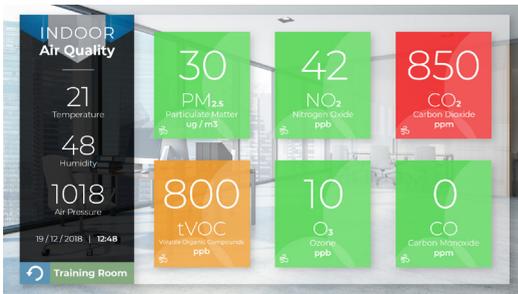


## OSSEasyAPI Reader

HTTP/REST/Web API's can be considered the data exchange language of the modern web. Every day, millions of systems utilise API's based around the standard HTTP(S) communication protocol to exchange information with millions of other systems. You could say with confidence that having a HTTP accessible API is the global standard for integration between systems in the fast paced, internet connected software driven world we live in today.

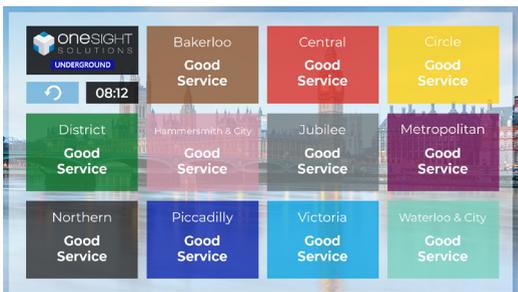
The Smart Building industry is currently in the midst of a data fuelled revolution, partly thanks to the IoT (Internet of Things) boom, but also thanks to POWERHOUSE toolkits from the Likes of Tridium with Niagara 4.

For many years now, Niagara 4 has been the go-to integration solution for Smart Building projects. Its off the shelf support for numerous building/control centric protocols and communication languages combined with an encouraged & active development community make it an unbeatable integration platform when used within the Smart Building environment.



However.... What do you do when you need to integrate with something that perhaps isn't formed from a traditional building services background...?

News, weather, parking, room booking, people counting, CRM Systems, Security systems, EVCharging and many more. Or perhaps your customer wants to see the data from their shiny new wireless sensor system, however the data is only accessible via the vendors cloud service?



**Introducing OSSEasyAPI – A simple, easy to use HTTP/REST/Web API Client for Niagara 4.**

OSSEasyAPI is a flexible and powerful HTTP/REST/Web API client module for Niagara 4 that allows you to easily integrate with an exceptional variety of systems/services that feature a HTTP compatible API for data exchange.

By utilising OSSEasyAPI in Niagara 4, you open the doorway to be able to interface with a potentially limitless number of systems simply by using this one Niagara component.

OSSEasyAPI aims to make what was once available only to software developers, accessible to the modern & highly versatile Niagara 4 Smart Building engineer. It works as a single, draggable component, just like any other within the Niagara environment. This component may then be configured to send a HTTP POST/PUT/GET to a specified API URL/Endpoint. The entire API request is constructed using the familiar Niagara property sheet! No need to write a single line of Java to handle your own HTTP requests at all!

Property Sheet

Weather\_Reading (Oss Easy Api Request)

- Enabled
- Status (ok)
- Fault Cause
- Alarm Api Alarm
  - Current State Request success @ 08-Oct-20 3:37 PM BST
  - Api Url https://www.metaweather.com/api/location/32597
  - Http Method Get
  - Authorisation None
  - Http Header Http Request Header
  - Automatic Update
  - Clear Output On Fault
  - Generate Data Tree
  - Request Success
  - Last Request Success 08-Oct-2020 03:37:50 PM BST
  - Response Code 200
  - Response Body [{"consolidated\_weather": [{"id": "4655234254110720", "weather\_sta"}]
  - Response Json [{"consolidated\_weather": [{"id": "4655234254110720", "weather\_sta"}]
  - Response Error
- Data Folder
  - consolidated\_weather Folder
    - Idx0 Folder
      - air\_pressure 1009.0
      - applicable\_date 2020-10-08
      - created 2020-10-08T13:51:37.628504Z
      - humidity 84
      - id 4655234254110720
      - max\_temp 16.425
      - min\_temp 9.39
      - predictability 75
      - the\_temp 16.47
      - visibility 9.302548118985126
      - weather\_state\_abbr 1r
      - weather\_state\_name Light Rain
      - wind\_direction 267.05931741083594

Expanding on the single component API request made possible by OSSEasyAPI, multiple instances may be dropped onto a wire sheet and chained together using standard Niagara linking. This allows construction of a complete HTTP conversation consisting of multiple requests, such as in the case where an API requires multi steps to get to the data you need.

We have successfully used OSSEasyAPI to interface with a whole host of API's, and have seen it help numerous customers overcome new integration challenges where their only other option would have been expensive custom/proprietary software development.

Bottom line.... If the system you need to talk to sports a Web API, then ossEasyAPI for Niagara 4 is the most capable tool in your integration toolbox!

What are you waiting for? Open up the API docs, give us a call for a trial license and see if OSSEasyAPI can solve your integration challenge.



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