WELCOME! To the OSS Driver Pack. Included in the folder where you found this document is a collection of Niagara 4 compatible modules that greatly enhance the integration potential of your Niagara deployments!

The OSS Driver Pack is available as a FREE demo that may be activated on a Demo/Engineering Workbench HOST-ID (Essentially an engineer's laptop). Each of the modules below are then available for testing and use offline on the engineer's machine.

Please send an email with your Niagara Host ID, Your Name, Company, Contact Number & Email address to: driverpackdemo@onesight.solutions and we will issue a license!

For production use (on a project/live site), each of the below modules are available to purchase separately. Please email sales@onesight.solutions or phone +44 20 3744 9539 to purchase.

This driver pack includes the following software modules developed by One Sightsolutions Ltd. By using this software, you agree to the terms of our End User License Agreement which may be found accompanying this module pack.

Documentation & User Guides for each module can be found at https://help.onesight.solutions

ossEasyAPI

The IoT revolution demands modern, open, standards-based communication, ossEasyAPI from One Sightsolutions enables any Niagara 4 system to quickly interface with almost anything that sports a HTTP/REST API. It even decodes JSON data and formats it as a familiar Niagara point structure… automatically!

ossEasyAPI is a HTTP CLIENT that allows you to push and pull data from services such as News & Weather, IoT Sensor systems, Air Quality, Car Park management, Room Booking, People Counting & Desk Occupancy, CAFM, CRM Integration, Security & Access Control, EV Charging, Energy Management systems and many more!

If it's got a HTTP/REST API, then ossEasyAPI on Niagara 4 is the secret weapon in your integration toolbox.

ossRestAPIServer

ossRestAPIServer provides a HTTP REST API server running on Tridium Niagara that enables many common web platforms, or REST API clients easy access to any point or history data available on a Niagara JACE or supervisor.

Easily integrate Tridium Niagara based data into existing REST API enabled visualisation and analytics frameworks so your BMS data can be viewed and processed by third-party systems alongside a wide range of alternative data sources. Full granular access control and Oauth2 authentication is built in!

ossEasyMQTT

Interface with any MQTT broker, whether it be cloud or on-prem, Mosquitto, EMQX, HiveMQ, AWS or Azure! Our driver features no point (publish/subscribe) limitations and features all standard Authentication mechanisms including Client Certificates (Mutual TLS), User/Pass, and a combination of both.

Simply add a broker connection, and then drop in as many publish or subscribe components as needed on whatever topic structure you are working with!

ossEasyHistoryExport

The king of exporting numerical history data from Niagara 4. Designed primarily for taking energy metering data and passing to an Energy Management system for import.

Within 10 minutes you can automate on interval the export of as much Niagara history data as you need, in simple multi-column CSV format. The module includes the ability to send this export via FTP, SFTP and Email. Local file export is also an option!

Save masses of time by removing the need for complex wire sheet report logic to generate CSV file exports. Several configuration options enable this tool to produce a file that is compatible with a wide variety of external energy platforms such as Spacewell's Dexma or eSight Energy.

ossFTP

Need to transfer any file or folder from a Niagara system (controller) to a remote system? We've got you covered! ossFTP enabled scheduled transfers of just about any file/folder within a Niagara station to a remote FTP or SFTP server. Great if you are generating your own reports or CSV files and need to send them somewhere! This tool doesn't generate files, it simply sends those that already exist.

ossTeamsTools

Microsoft Teams is a hugely popular messaging and collaboration service available as part of Office 365. ossTeamsTools allows Niagara Alarms to be pushed to any Teams channel, enabling push notification style alerts to be sent to those who need to see them, right within the familiar Microsoft Teams environment. A much more 'present' way to deliver messages to your facilities management staff that minimises the chance of important alarms being missed in busy email inboxes!

ossWebhook

Do you have an external system that needs to POST data into Niagara via a HTTP 'Webhook'. We have you covered! This simple module allows you to configure any number of Webhook 'endpoints' that may receive data from external/third party systems via HTTP POST. An example being popular LoRaWAN servers support posting decoded sensor data to a remote HTTP endpoint.

A selection of industry standard authentication mechanisms may be applied to each endpoint. Received data is made available as a standard Niagara string slot which may be linked to any other components as with standard Niagara workflows.

ossBatchFacets

We all know applying changes to properties on points in bulk can be difficult. ossBatchFacets provides an easy-to-use search/filter function which allows you to quickly multiselect points within a station and change the facets on them in bulk. A great time saver, particularly on large systems where changes to facets need to be made retrospectively!

ossStationBackup

Ensuring regular system backups is one of the most valuable and important tasks that a Niagara engineer must perform. Whilst there are built in tools such as provisioning which allow remote stations such as JACE's to be backed up onto a Supervisor head end, there is nothing to automate backups of the supervisor station itself.

ossStationBackup is designed to automate backups of a Niagara Supervisor station. It works on a simple schedule and fires the built in Backup Service, ensuring that regular backups of the supervisor itself are taken. These backups may then be stored elsewhere.

ossChirpManager

LoRaWAN is an exciting new technology that enables large scale, secure wireless IoT infrastructure with an almost endless list of use cases. Chirpstack is the world's most popular LoRaWAN server which sits at the centre of your deployment, with multiple gateways feeding into it, providing complete radio coverage to all of your sites where you may centrally register and manage many thousands of sensors/devices.

ossChirpManager enables quick and painless integration between a Chirpstack LoRaWAN deployment and a Niagara 4 system. It does this by means of hooking into the JSON integration feed from Chirpstack (either via Webhook API or MQTT) and automatically creates each sensor as a standard Niagara component, with slots exposed and datapoints ready to use just like anything else within the Niagara Framework.

Take the pain out of integrating LoRaWAN at scale into your Niagara environment with ossChirpManager!

ossTeltonikaSMS

Having an out-of-band mechanism to raise alarms through is an important function of any critical system. Traditionally, sending alarms via an SMS 'text message' had to be accomplished via an RS232 connected GSM modem with the Tridium SMS Service. More common now however is to find a Teltonika 4G/5G modem connected to a Niagara system via TCP/IP network for data connectivity requirements.

ossTeltonikaSMS leverages the onboard API of the RutOS software running on most Teltonika RUT series routers and presents a familiar Alarm Recipient component in your Niagara instance that will send alarms via a network connected Teltonika router. No need for a separate RS232 GSM model anymore!