Edge System Beta 2 Release Notes

Edge System Beta 2 contains all the features expected to be present in the first release of the Edge System. Since this is a Beta release, some features may change slightly in the final release, but most of the engineering work will focus on bug fixes and performance improvements after this Beta.

This is the second beta release of the combined Edge System - including Storage (SDS and OMF) along with Modbus and Opc Ua connectivity. Upon installation storage functions will be immediately available - Modbus and Opc Ua will require additional configuration steps. Additional steps for configuring connectivity will be available, along with other documentation at https://edge-docs.osisoft.com/ shortly after Beta 2 is available.

Overview

The Edge System is supported on a variety of platforms and processors. OSIsoft provides ready to use install kits for the following platforms:

- Windows 10 x64 - EdgeSystem.msi (Intel/AMD 64 bit processors)
- Debian 9 x64/AMD64 - EdgeSystem_linux-x64.deb (Intel/AMD 64 bit processors)
- Debian 9 ARM32 - EdgeSystem_linux-arm.deb (Raspberry PI 2,3,4, BeagleBone devices, other ARM v7 and ARM v8 32 bit processors)

In addition to ready to use install kits, OSIsoft also provides examples of how to create Docker Containers in a separate file and tar.gz files are provided with binaries for customers who wish to build their own custom installers or containers for Linux.

Installing Edge System on a Device using an install kit

To use any of the installers, first copy the appropriate file to the file system of the device.

Windows (Windows 10 x64)

Double click the EdgeSystem.msi file in Windows Explorer or execute the file from a command prompt. You will be prompted for install location and default port, and when the install finishes the EdgeSystem will be installed and running on either the default port 5590 or the port you specified during the install.

Debian 9 Linux (Ubuntu Raspberry PI, BeagleBone, other Debian based Linux distros)

Open a terminal window and type:

```
sudo apt install ./EdgeSystem_linux_<either x64 or arm depending upon
processor>.deb
```

A check will be done for prerequisites. If the Linux OS is up to date the install will succeed. If the install fails run the following commands from the terminal window and try the install again:

```
sudo apt update
sudo apt uggrade
```

After the check for prerequisites succeeds, a prompt will appear asking if you want to change the default port (5590). If you wish to change the port type in another port in the acceptable range for the OS you are using, or if 5590 is acceptable, press enter.

The install will complete and the EdgeSystem will be running on your device. You can verify the EdgeSystem is correctly installed by running the following script from the terminal window (depending upon the processor, memory, and storage it may take the system a few seconds to start up):

```
curl http://localhost:5590/api/v1/configuration
```

If the installation was successful you will get back a JSON copy of the default system configuration:


```
{
    "Storage": {
        "Runtime": {
            "streamStorageLimitMb": 2,
            "streamStorageTargetMb": 1,
            "ingressDebugExpiration": "0001-01-01T00:00:00"
        },
        "Logging": {
            "logLevel": "Information",
            "logFileSizeLimitBytes": 34636833,
            "logFileCountLimit": 31
        },
        "OEM": {
            "checkpointRateInSec": 30,
            "transactionLogLimitMB": 250,
            "enableTransactionLog": true
        },
        "PeriodicEgressEndpoints": []
    },
    "System": {
        "Logging": {
            "logLevel": "Information",
            "logFileSizeLimitBytes": 34636833,
            "logFileCountLimit": 31
        },
        "Components": [{
                "componentId": "OpcUa1",
                "componentType": "OpcUa"
            },
```

```
            {
                "componentId": "Modbus1",
                "componentType": "Modbus"
            },
            {
                "componentId": "Storage",
                "componentType": "EDS.Component"
            }
        ],
        "HealthEndpoints": [],
        "Port": {
            "port": 5590
        }
    },
    "Modbus1": {
        "Logging": {
            "logLevel": "Information",
            "logFileSizeLimitBytes": 34636833,
            "logFileCountLimit": 31
        },
        "DataSource": {},
        "DataSelection": []
    },
    "OpcUa1": {
        "Logging": {
            "logLevel": "Information",
            "logFileSizeLimitBytes": 34636833,
            "logFileCountLimit": 31
        },
        "DataSource": {},
        "DataSelection": []
    }
}
```

If you get back an error, wait a few seconds and try it again. On a device with limited processor, memory and slow storage it may take some time before the Edge System is fully initialized and running for the first time.

Known Issues

When configuration is retrieved from a default installation of Edge System http://localhost:5590/api/vi/configuration the output JSON cannot be successfully written back to configure the system. The workaround is to remove the OEMConfiguration section of the JSON schema and any non-configured Modbus or Opc Ua components before updating the configuration, otherwise 400 errors will occur when the http://localhost:5590/api/vi/configuration URI is called with a PUT command. This will be fixed before the inital release of the Edge System.