

# Installation of Edge System

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## Overview

The Edge System is supported on a variety of platforms and processors. OSIssoft 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)

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 upgrade
```

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.