

# ELIOT R4 - IoT Gateway Release Notes

## Release Notes for ELIOT IoT Gateway Blueprint

### Summary

In ELIOT - IoT Gateway Blueprint Release 4.0, providing One Click Deployment (OCD) from Deployment node to automate installation, lightweight Kubernetes (k3s) is provided on the IoTGateway node, Hawkbit for software rolling updates on IoT Gateway , Edge Gallery and services are added. (Refer to Features Table)

### What is released

#### Components of the release (Akraio new)

#### ELIOT IoT Gateway Node Components

K3s Cluster Provided and we migrated from kubernetes to lightweight kubernetes (K3S) on IoTGateway node / Edge Node

#### Dependencies of the release (upstream version, patches)

- Kubernetes
- K3s
- Hawkbit
- EdgeX
- Edge Gallery

### Upgrade Procedures

The ELIOT Cluster installed using Release 4.0 packages has to be uninstalled using uninstall scripts provided in the Release 4.0 .

After uninstall need to execute the Ansible command using OCD. Details given in Installation Document.

### Release Data

#### New Features

#	Feature	Category	Description
1	One Click Deployment	Platform Feature	OCD is provided to automate the installation of the components on ELIOT
2.	Lightweight Kubernetes (K3S)	Platform Feature	Inorder to make the Edge / IoTGateway nodes lightweight we have migrated from k8s to K3S
3	Hawkbit	Platform Feature	Hawkbit from eclipse community used on the Master node to provide software rolling update
4	Edge Gallery	Platform Feature	To support MEC deployment for Industrial IOT use cases.

#### Functionality changes

Not Applicable

#### Software Version Changes

#	Name	Category	Description
1.	Kubernetes	Software Enhancement	Version upgraded from 1.16+ to 1.17.2

#### Enhancements

Not Applicable

#### Version change

1.0.0

## Module version changes

N/A

## Document Version Changes

Version No.	Date	Author	Rationale
0.1	04-Dec-2020	ELIOT Blueprint Team	First Draft

## Deliverable

### Software Deliverable

Software is available in <https://gerrit.akraino.org/r/admin/repos/eliot>

### Documentation Deliverable

- [ELIOT R4 IoT Gateway Architecture Document](#)
- [ELIOT R4 IOTGateway API documentation](#)
- [ELIOT R4 IoT Gateway Installation Guide](#)
- [ELIOT IoT Gateway Release Notes](#)
- [ELIOT R4 IoT Gateway Test Document](#)

### Fixed Issues and Bugs

N/A

## Known Limitations, Issues and Workarounds

### System Limitations

N/A

### Known Issues

N/A