

ELIOT R5 - IoT Gateway Release Notes

Release Notes for ELIOT IoT Gateway Blueprint

Summary

In ELIOT - IoT Gateway Blueprint Release 5.0, providing One Click Deployment (OCD) from Deployment node to automate installation, k8s based is provided on the IoTgateway node, Hawkbit for software rolling updates on IoT Gateway , Edge Gallery and services are added. (Refer to Features Table)

In this release, BP has been upgrade from EdgeGallery version 0.9 to version 1.1.

EdgeGallery in version 1.1 has been added following new features.

- Edge Portal
- Application test platform
- UPF integration framework for DNS redirection and traffic rules configurations
- VM based workload support (Partial)

OCD scripts optimisations for easier up gradation of EdgeGallery versions.

Fixed bugs:

- local storage issues for Hawkbit PVCs
- OPC-UA container python version fix

What is released

Components of the release

OCD (One Click Deployment) Node Components

- Ansible-playbook based single command for ELIOT environment installation.

Master Node Components

- MECM
- Appstore
- Developer Platform
- Hawkbit
- Portal

EDGE Node Components

- MEP Agent
- MEP Server
- Applcm (MEPM)
- EdgeX
- RabbitMQ
- OPC-UA

Dependencies of the release (upstream version, patches)

S. No	Software	Version	Remarks	
1.	Edge Gallery	1.1.1		
2.	Docker	18.09+		
3.	Kubernetes	1.18.7		
4.	EdgeX	Edinburgh	This old version used due to k8s deployment	
5.	OPC-UA	Geneva		

Upgrade Procedures

The ELIOT Cluster installed using Release 5.0 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 scripts optimisations for easier up gradation of EdgeGallery versions.
2	Edge Gallery	Platform Feature	upgrade EdgeGallery upstream from 0.9 to 1.1

Functionality changes

Not Applicable

Software Version Changes

#	Name	Category	Description
1.	Kubernetes	Software Enhancement	Version upgraded from 1.17.2 to 1.18

Enhancements

Not Applicable

Version change

1.0.0

Module version changes

N/A

Document Version Changes

Version No.	Date	Author	Rationale
0.1	20-August-2021	ELIOT Blueprint Team	First Draft

Deliverable

Software Deliverable

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

Documentation Deliverable

- [ELIOT R5 IOTGateway API documentation](#)
- [ELIOT R5 - IoT Gateway Architecture Document](#)
- [ELIOT R5 - IoT Gateway Test Document](#)
- [ELIOT R5 - IoT Gateway Installation Guide](#)
- [ELIOT R5 - IoT Gateway Release Notes](#)

Fixed Issues and Bugs

N/A

Known Limitations, Issues and Workarounds

System Limitations

N/A

Known Issues

N/A