Edge Insights for Industrial 2.4.1

Release Notes

6 April 2021

Version History/Revision History

These are the main releases of Edge Insights for Industrial:

Date	Revision	Description
6 April 2021	2.4.1	Release notes for the EII v2.4.1 candidate

Intended Audience

The intended audience for this release notes is:

- End users

- System integrators

- Validation team

Customer Support

For support contact Weng Wai, Chin <weng.wai.chin@intel.com>.

Contents:

Release Notes   **Intel Confidential**   November 6, 2020

1   Introduction

Edge Insights for Industrial v2.4.1 is Intel's smart factory solution for doing defect inspections in factories. This is the version of a scalable architecture, which can be customized by system integrators for various defect inspection use-cases in factories.

This document provides system requirements, installation instructions, issues and limitations, and legal information.

To learn more about this product, see:

- New features listed in the [New in this Release](#) section below, or in the help.
- Reference documentation listed in the [Related Documentation](#) section below
- Installation instructions can be found at: README.md file with the source code.

2 New in This Release

1. EII build issue in PRC open n/w due to gRPC libraries.
2. Removed Discovery Creek and CSL orchestrator components.
3. Fixed multiple subscription issue fixed in Web Visualizer.
4. Integrated latest Open-Vino release OV 2021.3 with Vaapi fix
5. Fixed SWLC scan issues in KW, Snyk (vulns in docker images and python packages), Bandit etc.

Base Features of v2.4

- UX/DX Improvements
  - Enable Volume mount for UDFs.
  - eis_builder to auto-create multi-instance boilerplate configurations.
  - Small Analytics size
  - Pylon viewer export settings.
  - Option to Disable Bounding box in Both Visualizer.
- Benchmarking Code Release in EII
  - Release Video Ingest Benchmarking
  - Release Time series Ingest Benchmarking.
- Kubernetes orchestrator enablement
  - Single node deployment
  - Multi-node deployment
- Revamp Configuration APIs for EII
  - Revamp Config Manager API
  - Implement C ETCD Config library
- Time series improvements:
  - Enable Multiple Telegraf instances
  - Enable multiple UDF support with Kapacitor
  - Enable Random forest Algo.
  - Implement EISMessageBus (ZMQ) plugin for Telegraf.
- Video use case improvements:
  - Support more popular GigE camera in VI
  - Add snapshot feature for SW trigger (feed in just one frame)
- EII Message Bus Improvements:
  - Enable XPUB-XSUB messaging pattern of EISMessageBus
  - Dynamic loading of protocol plugins

3   Fixed Issues

[The list contains issues which were fixed as part of EIS2.4.1 PV Release]

Description	Symptom	Impact	Solution	Component Impact	OS
EII build was failing in PRC open n/w due to gRPC libraries	EII build was failing	Build will fail in PRC open network.	GRPC is pre-built and distributed ad binary.	All Modules.	All
Multiple subscription issues in Web-Visualizer	Web-Visualizer causing higher CPU usage with multiple subscription	Low performance with multiple subscriptions	Fix the backend to make only one subscription for each request from frontend.	Web-visualizer	All

4   Known Issues: None

Description	Symptom	Impact	Solution	Component Impact	OS

Intel Confidential

5   Related Documentation

The required documentation is available in the **user guide** in the Docs folder of the release package.

6 Where to Find the Release

Will be available via ESH.

https://software.intel.com/iot/edgesoftwarehub/download/home/industrialinsights

7   Release Content

Table 1-1 Revision numbers of components of the Production Candidate release.

Subproject (component)	Location	Revision
IEdgeInsights	/IEdgeInsights	V2.4.1
TurtleCreek	/manageability	V2.4.1(v2.8.5)
TLS	/training-and-learning-suite	V2.4.1

8   Minimum Hardware and Software Requirements

The minimal hardware and software configuration required for this software release is as below:

- Intel Core-i5 CPU (Broadwell onwards)

- 16GB RAM

Software requirement:

- Docker engine version 18.06-ce

- Docker-compose v1.24

Supported Operating Systems

Ubuntu 18.04

9 Acronyms and Terms

The following acronyms and terms are used in this document (arranged in alphabetic order):

Acronym/Term	Description
EII	Edge Insights for Industrial
TLS	Training and Learning Suite
ESH	Edge Software Hub

10 Legal Information

Please refer to the OBL for legal information.

Intel, Intel Core, Intel Inside, Xeon are trademarks of Intel Corporation in the U.S. and/or other countries.

*Other names and brands may be claimed as the property of others.