Release Notes - Linux*

Intel® QuickAssist Technology

Hardware Version 2.0

Addendum

November 2023

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1 Description of Release

This addendum document describes additions/deviations from the QAT2.0 Release Notes available at https://intel.github.io/quickassist.

1.1 Features

- Chaining support.
- Hardware/software Fail-over support for Compression
- User Queue support.
- Rate limiting

1.2 Limitations

- Legacy crypto operations are disabled by default. They can be enabled using the `--enable-legacy-algorithms` configuration option.

1.3 Supported Operating Systems and Platforms

The software in this release has been validated with the following configurations.

OS	Kernel Version	Platform
RedHat 9.2	6.2.0-emr.bkc.6.2.19.2.52.x86_64	EMR XCC A0/A1 EMR MCC R0/R1

1.3.1 Package Version

The following table shows the OS-specific package versions for each platform supported in this release.

Chipset or SoC	Package Version
Top-Level Package	QAT20.L.1.1.20-00030

1.3.2 SHA256 Checksum Information

The following table provides SHA256 checksum information.

Package	SHA256 Checksum
QAT20.L.1.1.20-00030	01f47cbee4f3cd21e8578f13961befda3c48f7d60d6eefa303738b3b17fc6911

1.4 Known Issues

Important: These issues are in addition to the issues documented at: https://intel.github.io/quickassist

1.4.1 QAT20-26988 [Chaining] compression/encryption failure status is not returned when chained operation fails

Title	[Chaining] compression/encryption failure status is not returned when chained operation fails.
Reference	QAT20-26988
Description	If error occurs in either compression or encryption during a chained operation, the chaining service returns error, but does not include details on the compression/encryption failure.
Implication	Error details for compression/encryption operations of chained operation are not returned.
Resolution	No workaround currently available.
Affected OS	Linux
Driver/Module	QAT IA - Chaining

1.4.2 QAT20-31286 [VIRT] Installation of driver in guest OS reports incorrect error message

Title	[VIRT] Installation of driver in guest OS reports incorrect error message
Reference	QAT20-31286
Description	When the QAT driver is installed in guest OS with QAT VF passed in, there will be `qat_vqat module not installed` error printed.
Implication	User will see an error when installing, but there is no implication to functionality.
Resolution	Future Fix.
Affected OS	Linux
Driver/Module	QAT IA - General

2 Revision History

Document Version	Description	Date
003	PV Release	Nov 2023
002	PC Release	Sept 2023
001	Initial Release	April 2023