Time Stamp Option Pack

TSOP SDK v8.1.0 Release Notes

18 October 2024

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1. Introduction

These release notes apply to version v8.1.0 of the Time Stamp Option Pack™ (TSOP) Software Development Kit (SDK). They contain information specific to this release such as new features, defect fixes, and known issues.

This release supports the following operating systems:

- Microsoft Windows Server 2019 x64
- Microsoft Windows Server 2022 x64
- Oracle Enterprise Linux 8 x64
- Oracle Enterprise Linux 9 x64
- Red Hat Enterprise Linux 8 x64
- Red Hat Enterprise Linux 9 x64
- SUSE Enterprise Linux 12 x64
- SUSE Enterprise Linux 15 x64

The release notes may be updated with issues that have become known after this release has been made available. For the latest version, see https://nshieldsupport.entrust.com/hc/en-us/sections/360001115837-Release-Notes.

Access to the Support Portal is available to customers under maintenance. To request an account, contact nshield.support@entrust.com.

1.1. Purpose of this release

Time Stamp Option Pack™ Software Development Kit version v8.1.0 addresses a number of known issues and introduces a number of enhancements over the previous release, including:

- Updated platform support.
- Classpath changes.
- ATV files and `ncversions`.
- TSOP SDK User Guide.

1.2. Versions of these release notes

Revision	Date	Description
1.1	2024-10-18	Documentation tooling update: fixed the website navigation of TSOP SDK v8.1.0 docs. No content changes.
1.0	2024-09-26	TSOP SDK v8.1.0 GA release notes.

2. Changes in this release

The TSOP SDK v8.1.0 release introduces a number of enhancements. These are discussed in the following sections.

2.1. Updated platform support

The following operating systems are now supported:

- Microsoft Windows Server 2022 x64
- Oracle Enterprise Linux 9 x64
- Red Hat Enterprise Linux 9 x64

Support for the following operating systems has been deprecated:

- Microsoft Windows Server 2012 x64
- Microsoft Windows Server 2016 x64
- Oracle Enterprise Linux 7.1 x64
- Oracle Enterprise Linux 7.6 x64
- Red Hat Enterprise Linux Server 7 x64

See Introduction for the complete list of supported platforms.

2.2. Classpath changes

It is no longer necessary to specify `asn1rt.jar` on the classpath when using the TSOP SDK.

2.3. ATV files and ncversions

ATV files are now generated for both the C and Java components of the TSOP SDK and will be displayed in the version information returned by `ncversions`.

2.4. TSOP SDK User Guide

The *TSOP SDK User Guide* (previously, the *TSOP SDK Reference Guide*) is no longer included on the ISO and can be obtained via https://nshieldsupport.entrust.com/hc/en-us/categories/360000473317-Documents-Manuals.

3. Important information

Before deploying the TSOP SDK, the following should be considered:

- This release only supports the operating systems detailed in Introduction.

- It is required that all client applications built with pre-6.20.00 versions of the TSOP SDK (both the C and Java APIs) are rebuilt to use the updated libraries in this release.

- On Linux, applications linking with `libtti.a` must also link with the `pthread` library.

- When **TTI_VERIFY_ESSCERTIDV2** is set to **0**, the first SHA-2 hash in **ESSCertIDv2** is checked - if no SHA-2 hashes are present - the first SHA-1 hash in **ESSCertID** is checked. If **TTI_VERIFY_ESSCERTIDV2** is set to **1**, or the environment variable is unset, only **ESSCertIDv2** is verified.

- The Java SDK requires a Java Development Kit (JDK) version 1.8 installation.

- Both the Java and C versions of the TSOP SDK include example code (the Java examples are accompanied by Javadoc documentation).

- On Windows, the Java and C versions of the TSOP SDK software are installed, respectively, in:

    - `C:\Program Files\nCipher\nfast\java\dsesdk\`

    - `C:\Program Files\nCipher\nfast\c\dsesdk\`

- On Linux, the Java and C versions of the TSOP SDK software are installed, respectively, in:

    - `/opt/nfast/java/dsesdk/`

    - `/opt/nfast/c/dsesdk/`

See the *TSOP SDK User Guide* for additional information.