

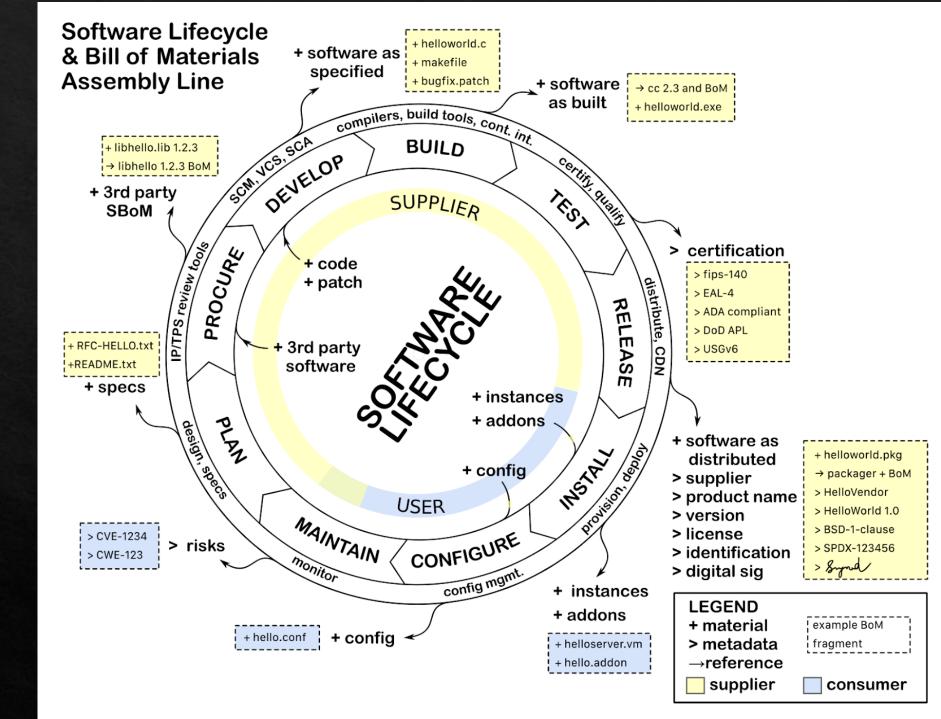
SBOM FORMATS & STANDARDS GROUP -REPORT OUT

CO-CHAIRS: JC HERZ & KATE STEWART

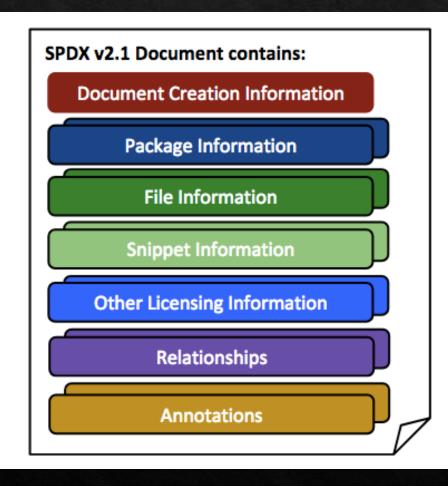
Lifecycle of an SBOM

Information that goes into SBOMs can be best obtained from the tools and processes used in each stage of the software lifecycle

- 1. Produce
- 2. Deliver
- з. Update
- 4. Consume



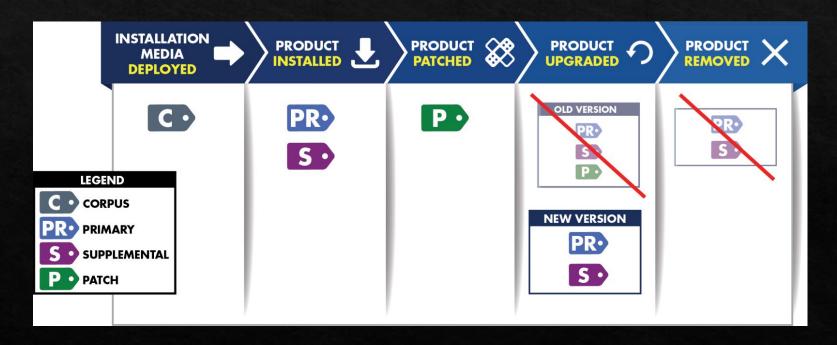
Key Format: SPDX



The Software Package Data Exchange (SPDX[®]) specification provides a standard language for communicating licensing and components information(metadata) for software packages and related content with the aim of facilitating license and other policy compliance between companies and organizations.

Key Format: SWID

The Software Identification (SWID) Tags were designed to provide a transparent way for organizations to track the software installed on their managed devices. It was defined by ISO in 2012 and updated as <u>ISO/IEC 19770-2:2015</u> in 2015. SWID Tag files contain descriptive information about a specific release of a software product.



Translation & Harmonization Guidance for Mapping to Framing Baseline

Baseline	SPDX	SWID
Supplier Name	(3.5) PackageSupplier:	<entity> @role (softwareCreator/publisher), @name</entity>
Component Name	(3.1) PackageName:	<softwareidentity> @name</softwareidentity>
Unique Identifier	(3.2) <u>SPDXID</u> :	<softwareidentity> @tagID</softwareidentity>
Version String	(3.3) PackageVersion:	<softwareidentity> @version</softwareidentity>
Component Hash	(3.10) PackageChecksum:	<payload>//<file> @[hash-algorithm]:hash</file></payload>
Relationship	(7.1) Relationship: CONTAINS	<link/> @rel, @href
Author Name	(2.8) Creator:	<entity> @role (tagCreator), @name</entity>

Table 1: Mapping baseline component information to existing formats



Related Formats Surveyed

CoSWID Tag CPE Cyclone DX Grafeas in-toto

SEVA Software Heritage Index Sparts SPDX-LIte

Package-URL (purl)

Next Steps

Tooling Support and Quick Start Guides

Working with Key Format definition groups to improve handling of:

Software Identifier Challenges

Delivery and Distribution

Component Modification

♦ Formats for Higher Trust and Provenance