



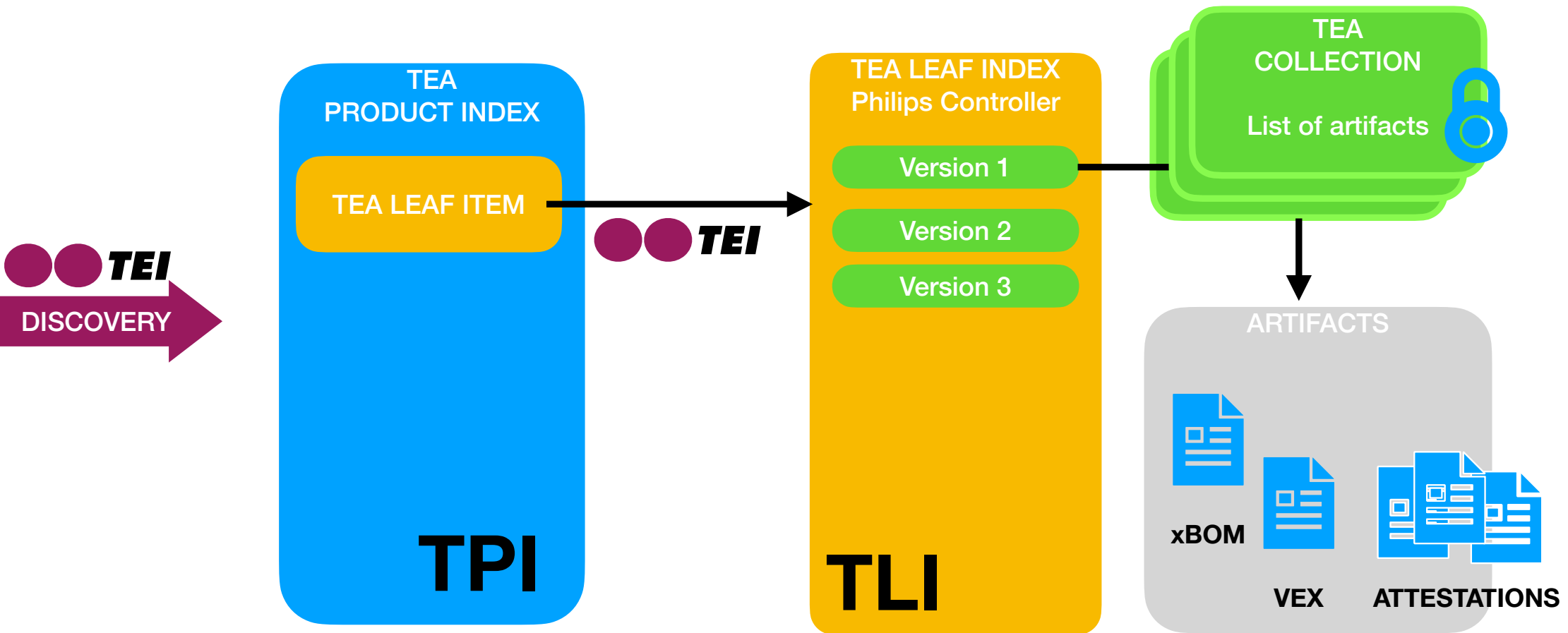
TEA Collections and transparency

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Project KOALA



TEA object model



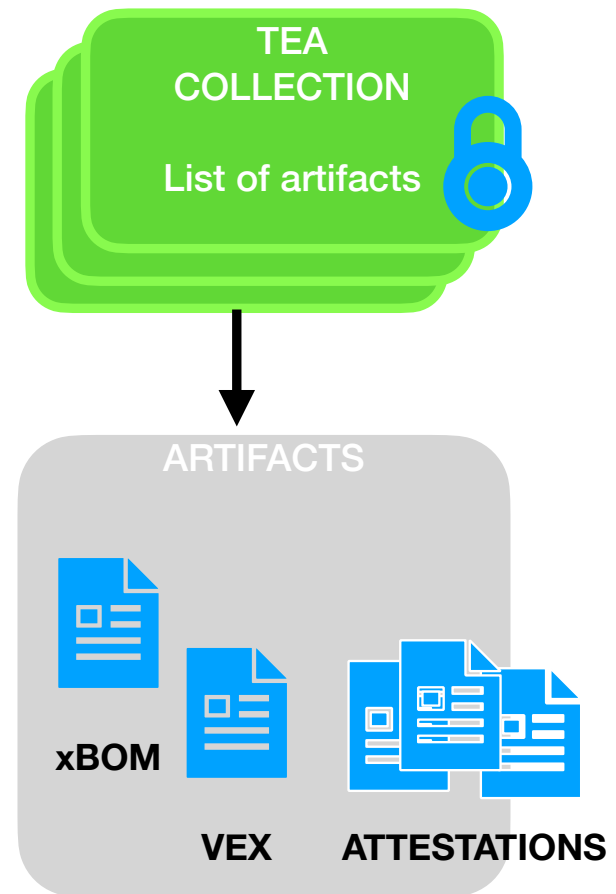
The TEA Collection

The TEA collection is a list of artifacts

- For one single version
- it contains references to artifacts

The TEA Collection object has the following parts

- Preamble
- UUID of TEA collection object (changes for every update)
- Product name
- Product version
- Product Release date (timestamp)
- TEA Collection object release date (timestamp)
- TEA Collection object version (integer starting with version 1)
- Reason for update/release of TCO - clear text
 - "New product release"
 - "Corrected dependency in SBOM that was faulty"
 - "Added missing In-Toto build attestation"
- List of artifact objects (next slide)
- Optional Signature



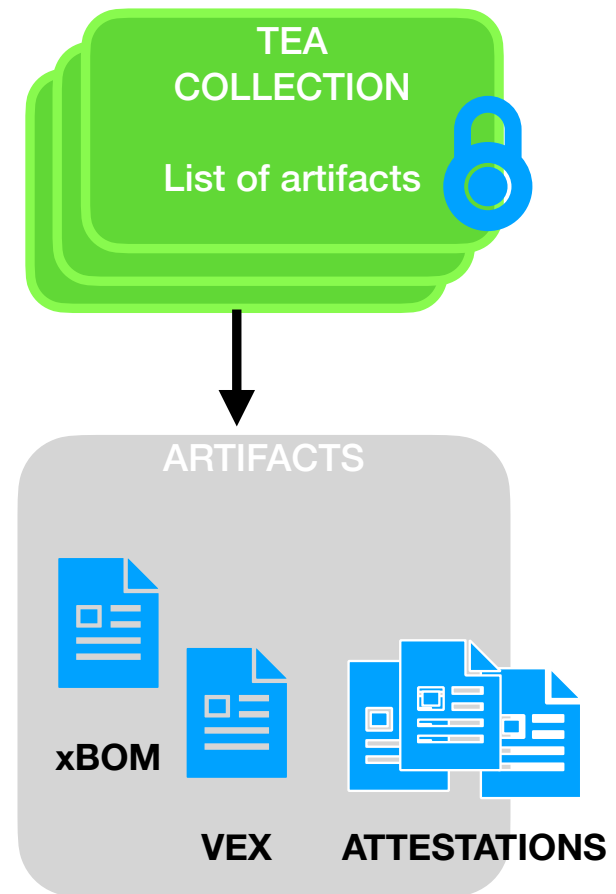
The TEA Collection artifact

The TEA artifact is a unique piece of data

- an artifact can be published for multiple collections.

The artifact object has the following parts

- Artifact UUID
- Artifact name
- List of objects - various formats of the same data.
The order of the list has no significance.
 - UUID for artifact
 - Optional BOM identifier
 - SPDX or CycloneDX reference to BOM
 - MIME media type
 - Artifact category (enum)
 - https://cyclonedx.org/docs/1.6/json/#externalReferences_items_type
 - Description in clear text
 - Size in bytes
 - SHA384 checksum



Reasons for updating the collection



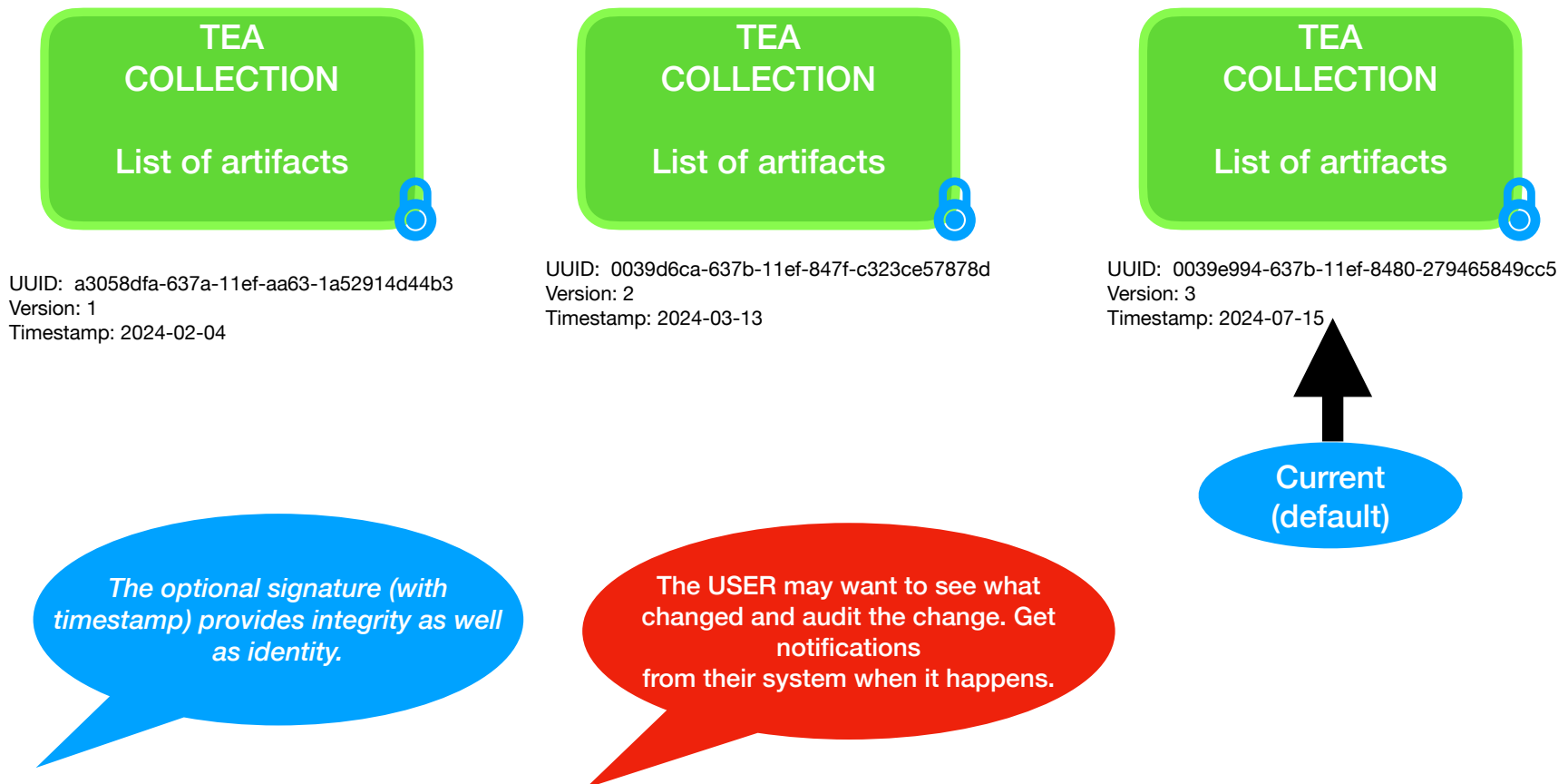
Updated the VEX

Updated the manual

Updated the SBOM
- found a missing dependency
or an extra non-existing dep

The USER may want to see
what changed and audit the change.
Get notifications
from their system when it happens.

The audit trail



Join the work!

**We are working on writing specifications for
the API and the various formats.**

Join the OWASP CycloneDX Transparency Exchange API working group today to participate.
We have a channel in the CycloneDX slack space to communicate.
Find all the links on our github page!

<https://github.com/CycloneDX/transparency-exchange-api>

<https://cyclonedx.org/about/participate/>



Project
Koala

