

Efficient vulnerability management using contextual SBOM

IOWN ACCELERATION

IOWN Evolution

Data-Governance Technologies for Sustainable Business



Background

In 2020, a cyberattack targeting SolarWinds made us realize once again the importance of supply chain security. Proof that products are assembled safely has become a social requirement, and SBOM (Software Bill of Materials) is used as a way to achieve this.

Summary

SBOMs visualize "product safety" like food ingredient labels, but more information is needed to fix problems. NTT succeeded in reducing the security effort required to remediate vulnerabilities by focusing on the usage situation (contextual information) that is removed in typical SBOM analysis.

Product Vulnerability Response with SBOM

Existing method of reducing vulnerability with SBOM – 5 steps

Deployment / SBOM analysis / Collecting context manually / Context-aware decision making / Taking an Action

Our method - 3 steps (Patent application)

Reduced time to complete response

SBOM analysis
+ Context



Accelerating the discovery
and planning process

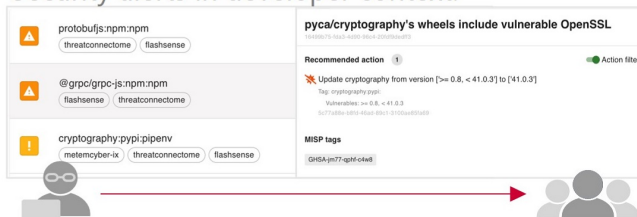
Rapid security response
with optimal actions



Flexible distribution of data
using contextual SBOM

Effectively use SBOM that focuses on package manager information

Security alerts in developer context:



Contextual SBOM keeps recognition gaps small by sharing software components and usage situations

Features

- Accelerating threat discovery and security planning process using contextual SBOM (Patent pending)
- Flexible distribution of security information using contextual SBOM (Patent pending)
- Significantly reduced time to complete security initial response (Development teams complete responses as fast as security experts, known as the 1-10-60 rule)

Future benefits

The existing SBOM service was difficult for developers. This technology provides them with the information they need and enables rapid security response using the contextual SBOM.

Exhibiting Company

NTT Communications Corporation

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