

# SBOM

Software Bill of Materials Healthcare Proof of Concept WG

#### Healthcare SBOM POC

- Established as part of NTIA Software Transparency Effort
- Focus on defining SBOM best practices for Healthcare

Investigate 2018-2019	Exercised primary use cases in creating & ingesting SBOMs for risk management Proved the actionable value of component transparency to the consumer
	More participants, more use cases, more devices, more data, more tools
Iterate	Proved the viability of standard formats, data, tools
2020-2021	Created How-To Guide for SBOM Generation
	Drive adoption, expanded participation; real-world scenarios & data
Integrate	Vulnerability Exploitability Exchange (VEX), End-to-End workflow
2022 - now	Automate SBOM sharing

#### Current Healthcare SBOM POC Activities

Producing VEX Companion Content for an SBOM

- Focus on vulnerabilities in a component that do Not Impact the Medical Device (Not Affected)
- Areas of investigation
  - Minimize Software Identification challenges
  - What Vulnerabilities require VEX statements
  - The Role of Cybersecurity Risk Severity Scores
  - Required content for producing VEX statements
- Identify gaps/areas needing further investigation
  Evaluate end-to-end generation, sharing, consumption, and usage of SBOM/VEX content
  SBOM Content Sharing
- Initial approach was controlled access via a shared folder
- Collaborating with H-ISAC on sharing through a central repository

## Introducing Health-ISAC SBOM Repository

- 1. 1st of its' kind SBOM repository
- 2. Improve software transparency
- 3. Fee-free access for HDO staff (members & non-members)
- 4. FDA "Manufacturers should provide or make available SBOM information to users on a continuous basis."
- 5. MDMs can upload and share SBOMs with customers
- 6. MDMs manage customer's (SBOM users) access
- 7. Two MDM Use cases
  - 1. MDM uploads and publishes SBOMs
  - 2. MDM uploads SBOMs and leverages SBOM Studio correction and enrichment functionality before publishing
- 8. SBOM studio refreshes CVE correlation hourly



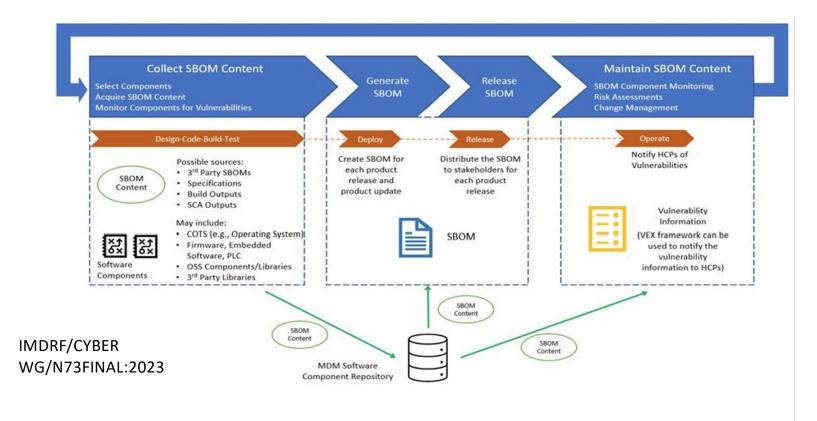
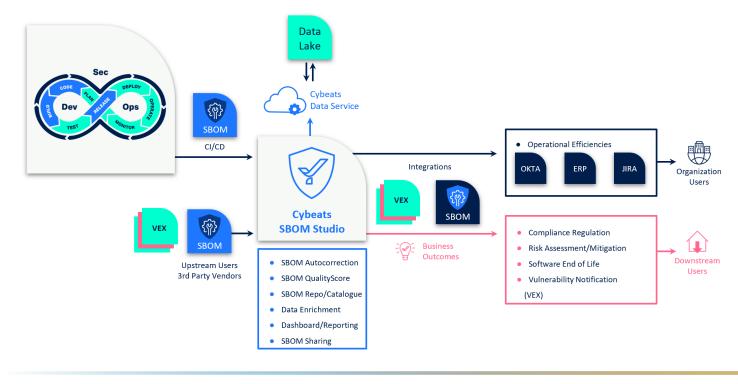
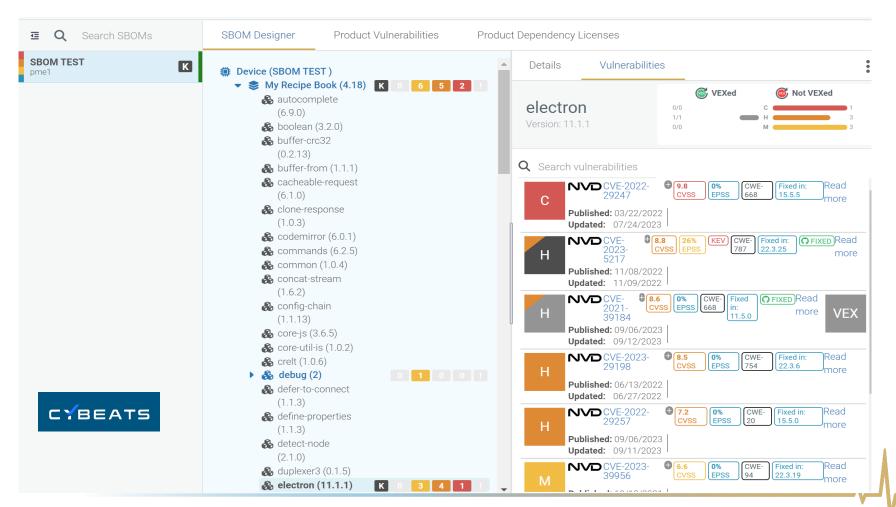


Figure 2: SBOM management across the software development life cycle (SDLC)

### SBOM Studio - High-Level Architecture





7