IODEF-extension to support structured cybersecurity information

draft-takahashi-mile-sci-02.txt

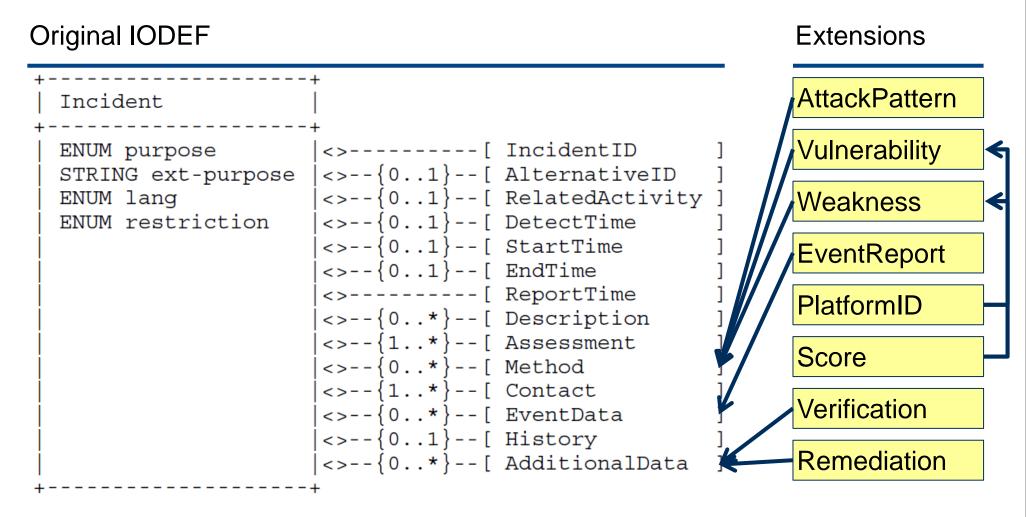
Takeshi Takahashi (NICT), Kent Landfield (McAfee), Thomas Millar (US-CERT), Youki Kadobayashi (WIDE/NAIST)

Agenda

Brief Overview of the extension

• Discussion issues

The extension enables embedding structured cybersecurity information inside IODEF document



The draft uses IANA registry to maintain the list of cybersecurity information formats

ID	Specification Name	Ver.	Namespace	
CAPEC_1.6	Common Attack Pattern Enumeration and Classification	1.6	http://capec.mitre.org/observables	
CEE_0.6	Common Event Expression	0.6	http://cee.mitre.org	
CPE_2.3	Common Platform Enumeration	2.3	http://cpe.mitre.org/dictionary/2.0	
CVE_1.0	Common Vulnerability and Exposures	1.0	http://cve.mitre.org/cve/downloads/1.0	
CVRF_1.0	Common Vulnerability Reporting Format	1.0	http://www.icasi.org/CVRF/schema/cvrf/1.0	
CVSS_2.0	Common Vulnerability Scoring System	2	http://scap.nist.gov/schema/cvss-v2/1.0	
CWE_5.0	Common Weakness Enumeration	5.1	N/A	
CWSS_0.8	Common Weakness Scoring System	8.0	N/A	
OCIL_2.0	Open Checklist Interactive Language	2.0	http://scap.nist.gov/schema/ocil/2.0	
OVAL_5.10	Open Vulnerability and Assessment Language	5.10	http://oval.mitre.org/XMLSchema/oval-definitions-5	
XCCDF_1.2	Extensible Configuration Checklist Description Format	1.2	http://checklists.nist.gov/xccdf/1.2	

Agenda

Brief Overview of the extension

Discussion issues

Discussion Issues

Applicable specifications for each class

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Guideline for the IANA expert review

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Verification/Remediation class

3

Applicable specifications for each class

New Addition

				Applicable
ID	Specification Name	Ver.	Namespace	Class
CAPEC_1.6	Common Attack Pattern	1.6	http://capec.mitre.org/observables	AttackPattern
	Enumeration and Classification			
CEE_0.6	Common Event Expression	0.6	http://cee.mitre.org	EventReport
CPE_2.3	Common Platform Enumeration	2.3	http://cpe.mitre.org/dictionary/2.0	PlatformID
CVE_1.0	Common Vulnerability and	1.0	http://cve.mitre.org/cve/downloads/1.0	Vulnerability
	Exposures			
CVRF_1.0	Common Vulnerability Reporting	1.0	http://www.icasi.org/CVRF/schema/cvrf	Vulnerability
	Format		/1.0	
CVSS_2.0	Common Vulnerability Scoring	2	http://scap.nist.gov/schema/cvss-	Scoring
	System		v2/1.0	
CWE_5.0	Common Weakness Enumeration	5.1	N/A	Weakness
CWSS_0.8	Common Weakness Scoring	8.0	N/A	Scoring
	System			
OCIL_2.0	Open Checklist Interactive	2.0	http://scap.nist.gov/schema/ocil/2.0	Verification
	Language			
OVAL_5.10	Open Vulnerability and	5.10	http://oval.mitre.org/XMLSchema/oval-	Verification
	Assessment Language		definitions-5	
XCCDF_1.2	Extensible Configuration Checklist	1.2	http://checklists.nist.gov/xccdf/1.2	Verification
	Description Format		-	

Guideline for the IANA expert review

Discussion issues

 What would be the criteria for accepting new specification registration?

Direction

- "Specification Required": any registration is accompanied by a public specification for the standard that has been registered
- Confirm three independent and interoperable implementations

- What would be the criteria for a new version registration?
- The same as above

Verification/Remediation class

Discussion issues

 Version 2 of the draft has the class, called "Remediation", which seems to be inappropriate name

Direction

- I would suggest to have both "Verification" and "Remediation" classes
 - Verification class could be represented by OVAL and XCCDF
 - Remediation class could be represented by CRE

Thank you