

CWE Coverage Claims Schema

a (brief) proposal

a call for action

a success story

682 CWE's defined

29 companies declaring compatibility

of 49 products & services





tool vendors are beginning to advertise coverage

Coverity Coverage for Common Weakness Enumeration (CWE): Java

CWE ID	Coverity Static Analysis Checker
171	BAD_EQ
252	CHECKED_RETURN
366	GUARDED_BY_VIOLATION
	INDIRECT_GUARDED_BY_ VIOLATION
	NON_STATIC_GUARDING_STATIC
	VOLATILE ATOMICITY
382	DC.CODING_STYLE
	BAD_OVERRIDE
	DC.EXPLICIT_DEPRECATION
	DC.GC
	MUTABLE COMPARISON
200	MUTABLE HASHCODE

Coverity' Data Sheet

() coverity

Coverity Coverage For Common Weakness Enumeration (CWE): C/C++

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www.cenzic.com | (866) 4-CENZIC (866-423-6942)

Cenzic Product Suite is CWE Compatible

Cenzic Hallstorm Enterprise ARC, Cenzic Hallstorm Professional and Cenzic ClickToSecure are compatible with the CWE standard or Common Weakness Enumeration as maintained by Mitre Corporation. Web security assessment results from the Hallstorm product suite are mapped to the relevant CWE ID's providing users with additional information to classify and describe common weaknesses found in Web applications.

For additional details on CWE, please visit: http://cwe.mitre.org/index.html

The following is a mapping between Cenzic's SmartAttacks and CWE ID's:

	Cenzic SmartAttack Name	CWE ID/s
1	Application Exception	CWE-388: Error Handling
2	Application Exception (WS)	CWE-388: Error Handling
3	Application Path Disclosure	CWE-200: Information Leak (rough match)
4	Authentication Bypass	CWE-89: Failure to Sanitize Data into SQL Queries (aka 'SQL Injection') (rough match)
5	Authorization Boundary	CWE-285: Missing or Inconsistent Access Control, CWE-425: Direct Request ('Forced Browsing')
6	Blind SQL Injection	CWE-89: Failure to Sanitize Data into SQL Queries (aka 'SQL Injection')
7	Blind SQL Injection (WS)	CWE-89: Failure to Sanitize Data into SQL Queries (aka 'SQL Injection')
8	Browse HTTP from HTTPS List	CWE-200: Information Leak
9	Brute Force Login	CWE-521: Weak Password Requirements
10	Buffer Overflow	CWE-120: Unbounded Transfer ('Classic Buffer Overflow')
11	Buffer Overflow (WS)	CWE-120: Unbounded Transfer ('Classic Buffer Overflow')
12	Check Basic Auth over HTTP	CWE-200: Information Leak
13	Check HTTP Methods	CWE-650: Trusting HTTP Permission Methods on the Server Side

Cenzic CWE Brochure | October 2009

Untrusted value as an argument Alter control flow Use of untrusted value Arbitrary control of a reso Use of untrusted string value User pointer dereference Out-of-bounds access Stray pointer arithmetic COM bad conversion to BSTR Overflowed array index write Overflowed pointer write Iterator container mismatch Alter control flow Splice iterator mismatch Allocation size error Out-of-hounds access Out-of-bounds write Copy into fixed size buffer Destination buffer too small Possible buffer overflow Allocation too small for type Denial of service Copy into fixed size buffer Destination buffer too small Unbounded source buffer

CWE IDs mapped to Klocwork Java issue types - current

http://www.klocwork.com/products/documentation/curren...

CWE IDs mapped to Klocwork Java issue types

From current

CWE IDs mapped to Klocwork Java issue types

See also Detected Java Issues.

CWE IDs mapped to Klocwork C and C++ issue types/ja -...

http://www.klocwork.com/products/documentation/curren..

CWE IDs mapped to Klocwork C and C++ issue types/ja

From current

< CWE IDs mapped to Klocwork C and C++ issue types CWE IDs mapped to Klocwork C and C++ issue types/ja

その他の情報 Detected C and C++ Issues.

CWE ID	説明
20 (http://cwe.mitre.org /data/definitions /20.html)	ABV.TAINTED 未検証入力によるパッファ オーバーフロー SV.TAINTED GENERIC 未検証文字列データの使用 SV.TAINTED ALLOC_SIZE メモリ割り当てにおける未検証の整数の 使用 SV.TAINTED.CALL.INDEX_ACCESS = 関数呼び出しにおける未検証 整数の配列インデックスとしての使用
22 (http://cwe.mitre.org /data/definitions /22.html)	SV.CUDS.MISSING_ABSOLUTE_PATH ファイルのロードでの絶対 バスの不使用
73 (http://cwe.mitre.org /data/definitions /73.html)	SV.CUDS.MISSING_ABSOLUTE_PATH ファイルのロードでの絶対 バスの不使用
74 (http://cwe.mitre.org /data/definitions /74.html)	SV.TAINTED.INJECTION コマンド インジェクション
77 (http://cwe.mitre.org /data/definitions /77.html)	SV.CODE_INJECTION.SHELL_EXEC シェル実行へのコマンド インジェクション
78 (http://cwe.mitre.org /data/definitions /78.html)	NNTS TAINTED 未検証ユーザ人力が原因のパッファ オーバーフロー - 非 NULL 終端文字列 SV:TAINTED.INJECTION コマンド インジェクション
88 (http://cwe.mitre.org	SV.TAINTED.INJECTION コマンド インジェクション NNTS.TAINTED 未検証ユーザ入力が原因のパッファ オーバーフロー

1 of 7

2/26/11 10:34 AM

goes to native code
tampering
tition

Working Directory
(Stored XSS)
g (Reflected XSS)
(Reflected XSS)
Information from the
ints

orms: validate method
orms: inconsistent validate
e Splitting

2/26/11 10:35 AM

a (relatively) simple idea...

lightweight and define a standard way

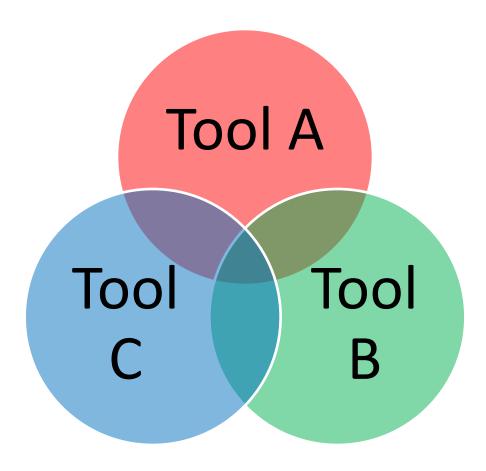
to represent CWE coverage *claims*



some reasons...

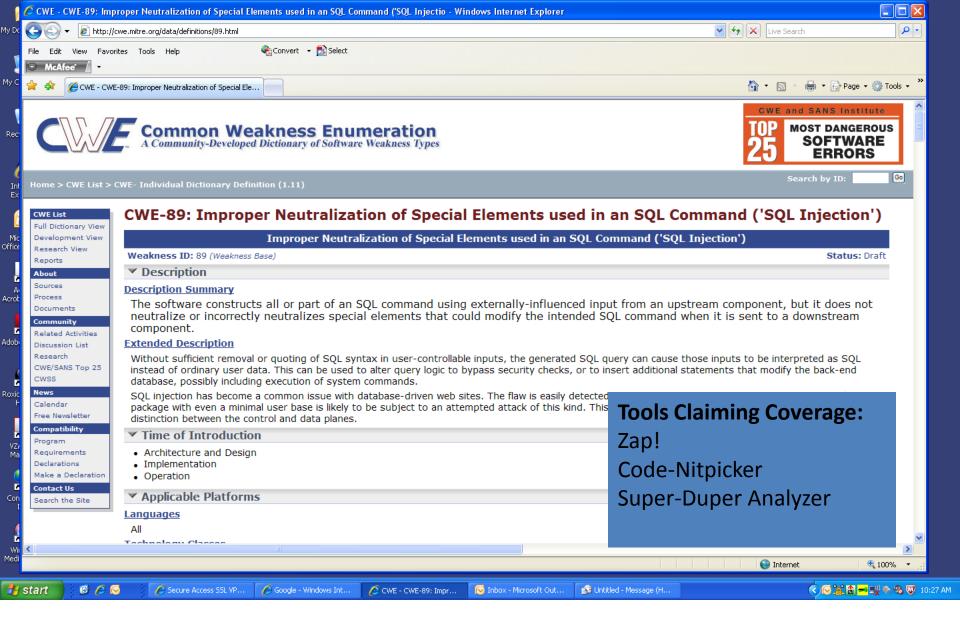
why do we need a standard representation?





to make it easy to compute coverage

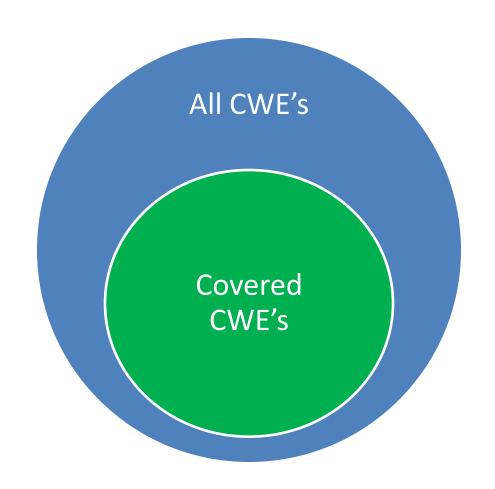




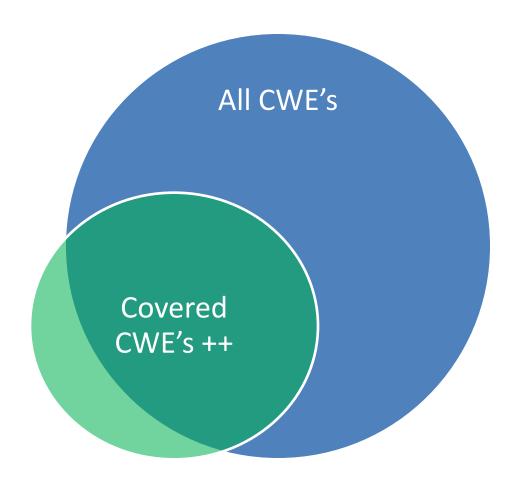
help CWE users



to see where R&D might be needed



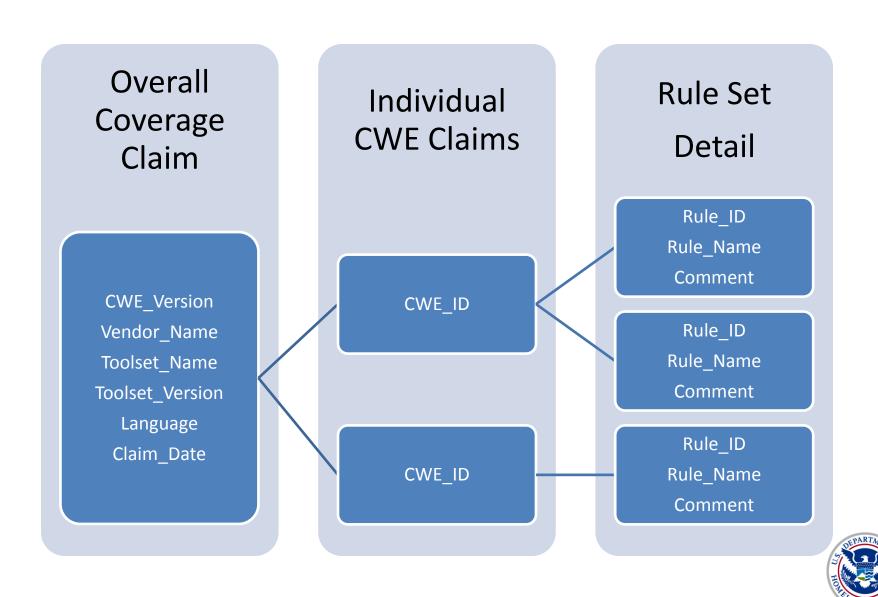


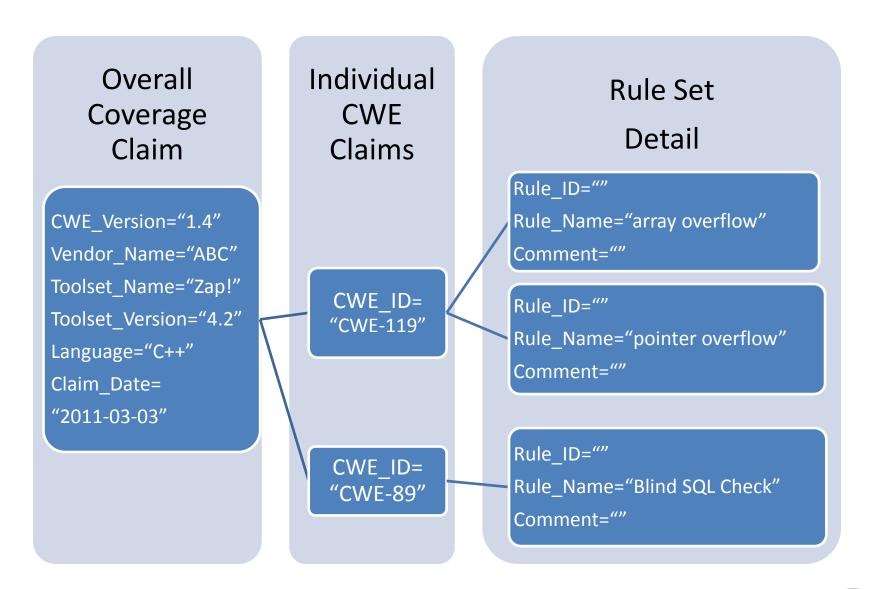


to see where CWE may need to grow



the general idea





something more concrete



services vs. tools

the are many open issues

specificity of claims

CWE compatibility program

disclaimers

dynamic vs. static analysis



we need input from the community

the action part

today: starting point for discussion



consensus draft @ June WG

input from users

goals

input from vendors



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thank you.

