

Common Announcement Interchange Format

http://CERT.Uni-Stuttgart.DE/projects/caif/



overview

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- Project history
- Motivation
- Features
- Terminology:

Types of Announcements

- Markup
- Text Structuring
- Text Containers
- Standard Sections
- Caif Users

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- proposal for a standard format of security announcements including but not limited to "advisories"
- XML-based
- intended to allow exchange according local policies
- flexibility by extensibility

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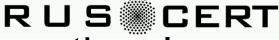
Project History

- project started in 2002
- draft on requirements was issued in January 2003
- draft on format was issued in February 2004
- major update of format in May 2004, new DTD is online, draft yet to be

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nrototype for new format operational



Motivation

- Due to the way information technology is deployed, security flaws are and will be a threat to the operation of IT infrastructure
- informing users and administrators about the problems is a vital task for vendors and security teams

Page: 5 the common way to do so is the

CAIF "SECUTITY TO CONSTRUCT OF SECUTION OF



 many different Formats in use different structure different terminology different assessment poor comparability

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Motivation

- situation causes multiplication of work
- reusing advisories is difficult
- multiple re-writing tends to introduce errors
- descriptions may be constituencydependent



 A common format should reflect the needs of readers reflect the needs of issuers and authors allow co-operation and re-usage support automation of processes be easily extended

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 Typically the reader needs answers to the following questions:

Is the announcement authentic?

Am I affected?

Do I have to react? If yes, how fast?

What are my options?

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Issuer and Distributor Requirements

- issuer requirements
 - existing processes can be carried on
 - minimal extra effort and/or technical requirement
- Distributor requirements
 - Presentation according to local formatting style

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• Easy parsing/ability to process

Features

 CAIF has a set of standard sections also present in most of the formats currently in use

structurize announcements in a standardized way increase readability

 It provides a set of categories with pre-defined values to increase

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CAIF COMPAPAPIANG INTO PROJECTS/caif/

Features

- CAIF allows multi-lingual documents
- multiple target groups of readers can be defined reflecting the reader's technical background: admin vs. user
 - organizational overview: employee vs. executive

Page: 12 environment: 3rd party software http://cert.uni-stuttgart.de/projects/caif/ within a suite

Features

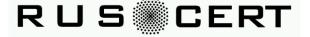
text

 multiple constituencies can be defined

constituency dependent assessments markup for constituency dependent

 CAIF allows to address multiple problems within one document

Page: (e.g. "cumulative patch announcements")



Terminology: Types of Announcements

CAIF announcement types:

urgency level flavor

alert brief

warning full

advisory digest

informationalother

other

llavor

vulnerability-

description

patch-

notification

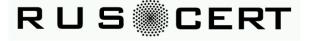
heads-up

other

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Markup

 CAIF provides a variety of markup elements, to allow for good readability and structuring of the text parts:

> emphasis: minor, normal and major special strings:vendor, code, program, service, sys-feat

files: text, log, config, source, program,

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lib, binary, path

http://cert.uni-stuttgart.de/projects/caif/
terminal interaction: user input, system





elements for text structuring:

paragraphs

tables

lists

internal and external links

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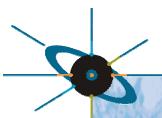
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Text Containers

- <body> provides the internal reference to a target group
- <rlist> provides the internal references to a target group
 - a problem-id

The elements contain the text within

the main sections



Standard Sections

- Identification * problem ids
- revision history *
- subject string *
- summary *
- constituencies
- target groups
- affected

Attack-vector

Attack-requirements

Attack-signature

Impact

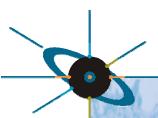
exploit status

Assessments (see next slide)

Page: Systems

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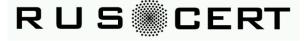
mandatory element http://cert.uni-stuttgart.de/projects/caif/



Standard Sections

- Assessments context information technical risk. solutions probability of . bibliography occurrence credits and disclaimer
 - threat rendered copy mitigation
 - other documents
- detailed description
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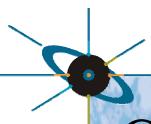


- implemented into services:
 RUS-CERT, Stuttgart University
 CERT-VW, Volkswagen AG
- currently introducing the format: dCERT, Deutsche Telekom AG ComCERT, Commerzbank AG

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CAIF – interested Users

 talks – interested parties SAP-CERT, SAP AG GNSec GmbH and others

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Project Home Page:

http://cert.uni-stuttgart.de/projects/caif/

- The presentation at the end of this session is about a possible extension to CAIF
- Questions will be answered and technical details explained at the

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