A Distributed Security Announcement Authoring System with CAIF Support

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Common Announcement Interchange Format (CAIF)

Document-based format to describe security issues

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- XML-based
- Designed to allow easy co-operation and
 - minimize multiplication of work
 - minimize introduction of errors
- Rendering independent

Handle constituency specific information

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- Minimal restrictions
- Normalized terminology
- Separation of policy and format

Design Goals

- Multiple problems in a single document
- Documents for multiple target groups
- Extensibility on a per-document basis

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Co-operations/Adopters/Interested parties

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CERT-VW

comCERT

British Cabinet Office

SAP AG

Service Oriented Application (SOA) with following core functionality:

- Author management/administration
- Implements an authoring process (policy, version control)

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- Persistation of Announcements
- Presentation of Announcements
- Import/Export of Announcements

Authoring Process (Participants)

Some definitions...

Author

Person, who creates/writes Security Announcements, e.g. /me.

lssuer

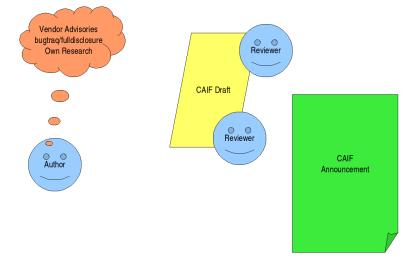
Organization, an author is working for, e.g. RUS-CERT.

Constituency (zu dt. 'der Kundenkreis')

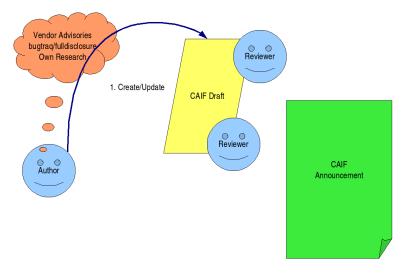
Users and IT infrastructure of organization(s), an issuer is working for, e.g. Uni-Stuttgart.

Target Group/Audience

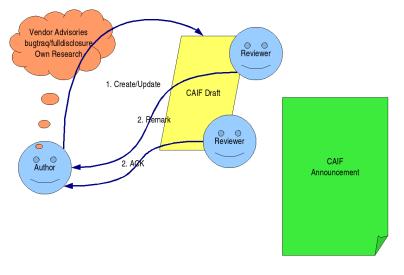
Readers of Security Announcements, e.g. Administrators.

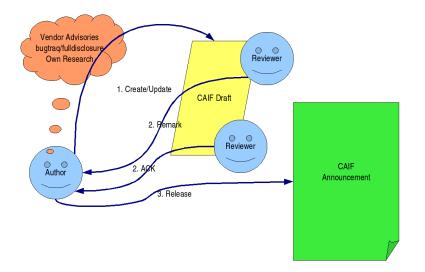


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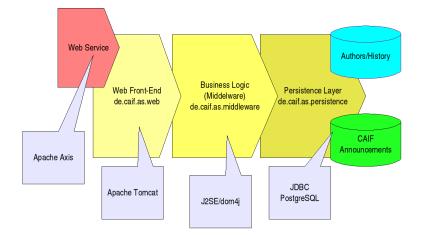
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System Design



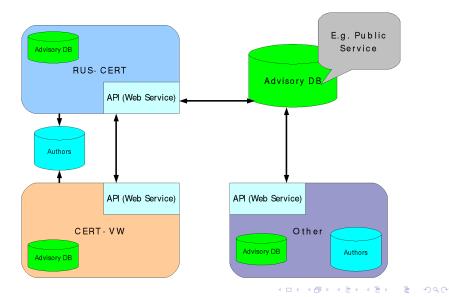
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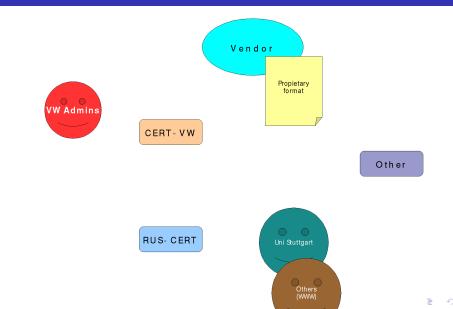
Service Interface of the Middleware

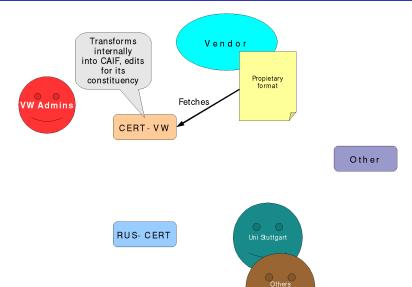
- Open Ticket (Authentication)
- Close Ticket (Authentication)
- Get Author Info
- Get Permission Info
- Get New Announcement
- Get Announcement
- Get Announcements
- Store Announcement
- Comment Announcement
- Change Announcement State (New, Review, Release, Revision)

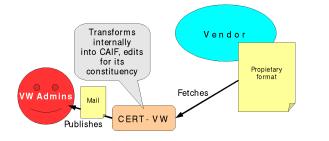
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What makes an Authoring System *distributed*?



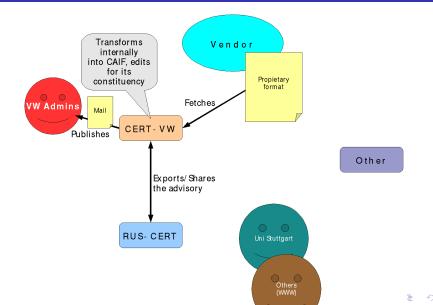


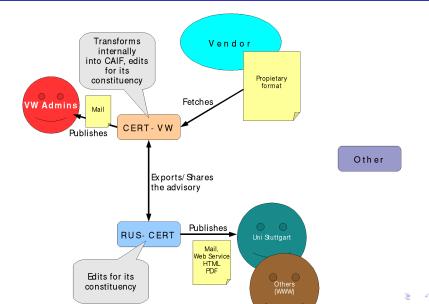


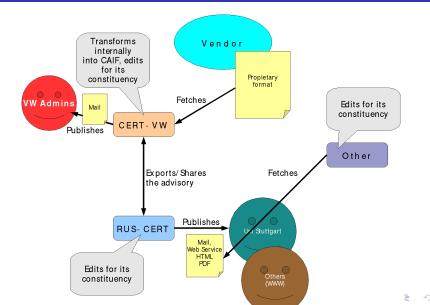


Other









- List of announcements via SOAP
- Announcement details via SOAP
- WSDL description

Application

RSS feed generator which accesses the service interface.

Current development

Support all functionality of service interface (authoring access).

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Web-based Front-End (ws-caif)

- Apache Tomcat Web application
- Depends on persistence layer and middleware APIs

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- Consists of a bunch of Servlets
- Some screenshots in the Proceedings..

- OpenSource development of ws-caif
- CAIF 2.0 (XML Schema based)
- Integration of wxWidget-based CAIFed GUI
- Distributed Middleware (extending Web Service Interface)

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- Administration front-end
- Public release of ws-caif



Questions?

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Related information

- http://www.caif.info
- http://suckless.org/arg/
- garbeam@gmail.com