Delivering services in a user-focussed way
- The new DFN-CERT Portal -

29th TF-CSIRT Meeting in Hamburg

25. January 2010

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How do we deal with the ever growing workload?

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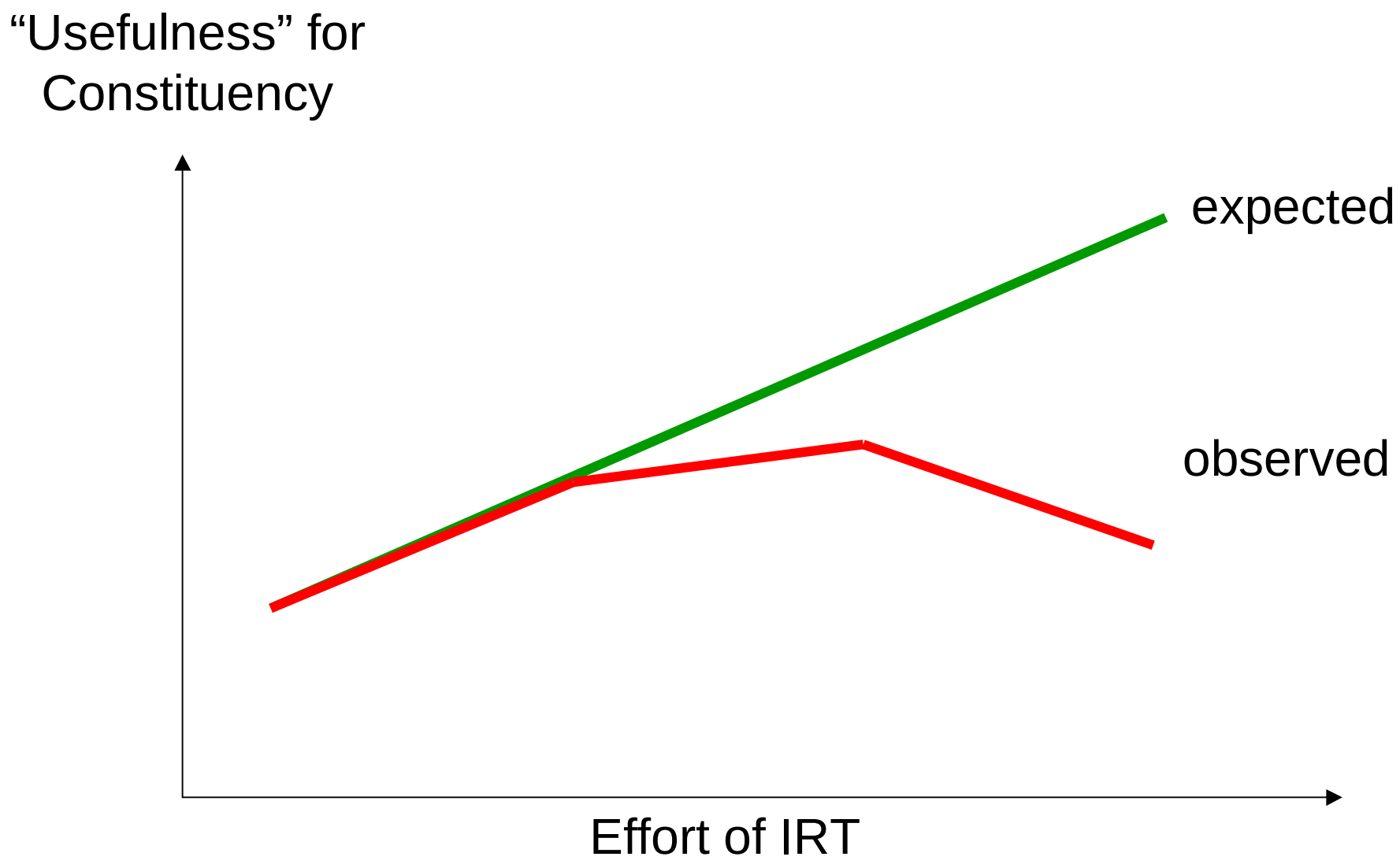
Starting Position

- DFN-CERT supports sites since 1993 with security related services
  - proactive (advisories, info on vulnerabilities)
  - reactive (incident response)
  - training (workshops, tutorials, ...)
  - national and international integration
- Well-established service for many years
  - e.g. security site contacts at all sites
  - but ...

Problem in recent years

- For some years there has been a problem with the sheer number of events, e.g.
  - several 1.000 new vulnerabilities per year
  - several 10.000 compromised computers per year just in our constituency
- As a result we have been sending out more and more information to our constituency
  - expecting our services to become better
  - but observing that the usefulness for our sites went down

work harder = better service?



Some reasons ...

- Only half a person works on security issues
  - few mails per day are OK
  - but 20 mails per day lead to „resignation“
- Local workflow / trouble-ticket systems in place
  - few mails per day are manually imported
  - (too) many mails are ignored
- Different people responsible in departments
  - few mails are redirected by site security contact
  - too many mails for other departments are dropped

https://portal.cert.dfn.de

- Configuration and information point for all sites.
- Custimization per site based on user's certificate.

1. Advisories (proactive)

Example: Advisory

DFN-CERT-2009-1630: **Designschwäche im SSL/TLS Protokoll betrifft OpenSSL**

Betroffene Software:
  Paket openssl

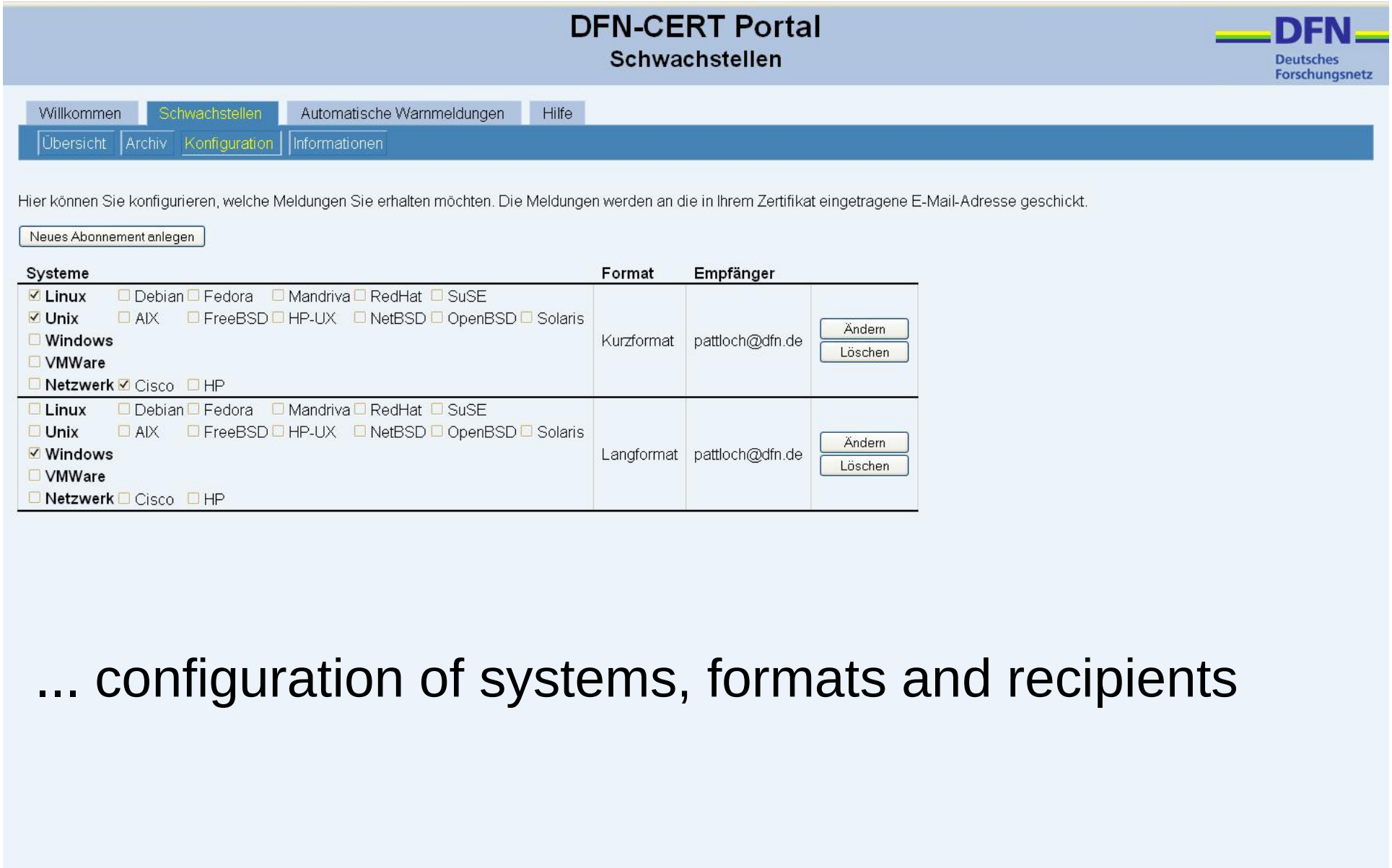
Betroffene Plattformen:
  openSUSE 11.0
  ...

Aufgrund einer Designschwäche im SSL- und TLS-Protokoll sind verschiedene Programme, die die OpenSSL Bibliothek verwenden, anfällig für Man in the Middle Angriffe.

Weitere Informationen finden sie unter:
  <https://portal.cert.dfn.de/adv/DFN-CERT-2009-1630/>

No one needs them all ...

- More than 2.000 advisories per year because of new vulnerabilities
  - esp. Windows, Linux, Unix
  - “Applications” (Java, VMware, Adobe, Office, ...)
  - Network (Cisco, Juniper, ...)
- Many sites only have a small amount of systems in house
  - thus they are not interested in all advisories
  - different departments have different systems in use; they want to configure that



... configuration of systems, formats and recipients

DFN-CERT Portal
Schwachstellen

DFN Deutsches Forschungsnetz

Willkommen | Schwachstellen | Automatische Wammeldungen | Hilfe | Admin

Übersicht | Archiv | Konfiguration | Konfiguration (HP) | Informationen

Hier können Sie das Archiv der bisher vom DFN-CERT verschickten Informationen über Schwachstellen durchsuchen.

java | Alle Systeme | Suchen

Ihre Suchergebnisse (83 Treffer):

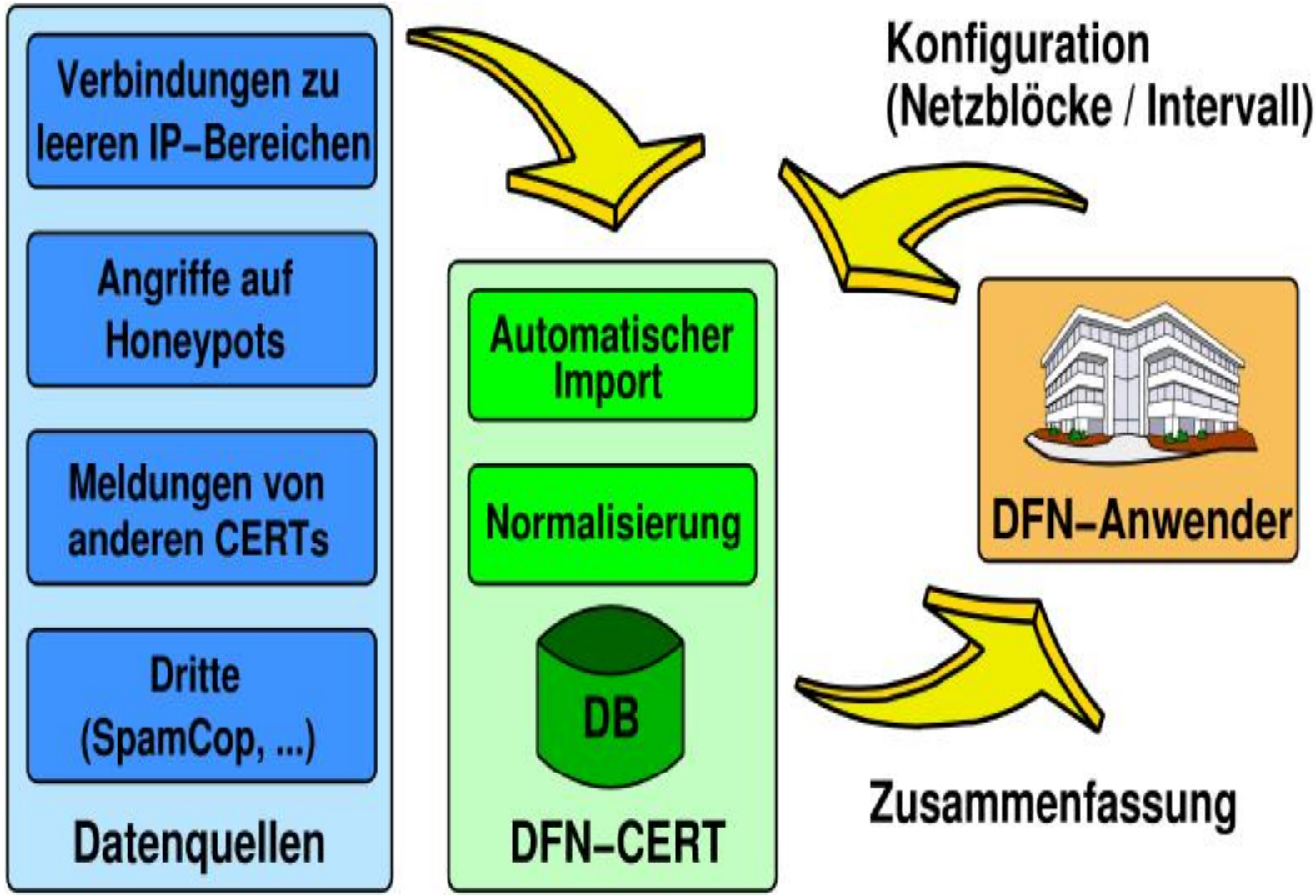
erste Seite | vorherige Seite | 1 / 5 | nächste Seite | letzte Seite

Datum	Titel	Systeme
17.11.2009	DFN-CERT-2009-1620: Mehrere Schwachstellen in OpenJDK bis einschließlich Version 1.6.0	Linux, RedHat
16.11.2009	DFN-CERT-2009-1616: Mehrere Schwachstellen in SUN Java bis einschließlich Version 1.6.0	Linux, Fedora
13.11.2009	DFN-CERT-2009-1609: Mehrere Schwachstellen in IBM Java bis Version 1.6.0	Linux, RedHat
11.11.2009	DFN-CERT-2009-1598: Mehrere Schwachstellen in SUN Java bis Version 1.6.0	Linux, RedHat
11.11.2009	DFN-CERT-2009-1597: Mehrere Schwachstellen in SUN Java bis Version 1.5.0	Linux, RedHat
10.11.2009	DFN-CERT-2009-1581: Mehrere Schwachstellen im Java Runtime Environment für HP-UX	HP-UX
10.11.2009	DFN-CERT-2009-1580: Mehrere Schwachstellen in Apache Tomcat	Linux, RedHat
10.11.2009	DFN-CERT-2009-1579: Mehrere Schwachstellen in Apache Tomcat	Linux, RedHat
06.11.2009	DFN-CERT-2009-1564: Schwachstellen in Mozilla Firefox vor Version 3.5.4	Linux, Mandriva
05.11.2009	DFN-CERT-2009-1563: Schwachstellen in der Mozilla Browser Engine vor Version 3.0.15	Linux, RedHat
05.11.2009	DFN-CERT-2009-1554: Schwachstellen in Mozilla Firefox vor Version 3.0.15	Linux, SuSE
05.11.2009	DFN-CERT-2009-1552: Schwachstellen in IBM Java	Linux, SuSE
04.11.2009	DFN-CERT-2009-1543: Schwachstellen in JDK und JRE vor Version 6 Update 17	Linux, Unix, Solaris, Windows
03.11.2009	DFN-CERT-2009-1541: Schwachstelle im GlassFish Server bei der Auswertung von XML Signaturen	Linux, RedHat, Unix, AIX, Solaris, Windows
30.10.2009	DFN-CERT-2009-1535: Diverse Schwachstellen in Mozilla Firefox vor Version 3.0.15	Linux, Mandriva
29.10.2009	DFN-CERT-2009-1531: Schwachstellen in der Mozilla Browser Engine vor Version 3.0.15	Linux, RedHat
29.10.2009	DFN-CERT-2009-1532: Schwachstellen in Xulrunner / Mozilla Browser Engine vor Version 3.0.15	Linux, Debian
28.10.2009	DFN-CERT-2009-1530: Schwachstelle in Expat	Linux, Debian
28.10.2009	DFN-CERT-2009-1525: Mehrere Schwachstellen in Seamonkey vor Version 2.0	Linux, RedHat
28.10.2009	DFN-CERT-2009-1524: Diverse Schwachstellen in Mozilla Firefox vor Version 3.0.15	Linux, RedHat

... searchable archive of all advisories

2. Incident Warning (reactive)

How we know about incidents ...



Example: Incident Warning

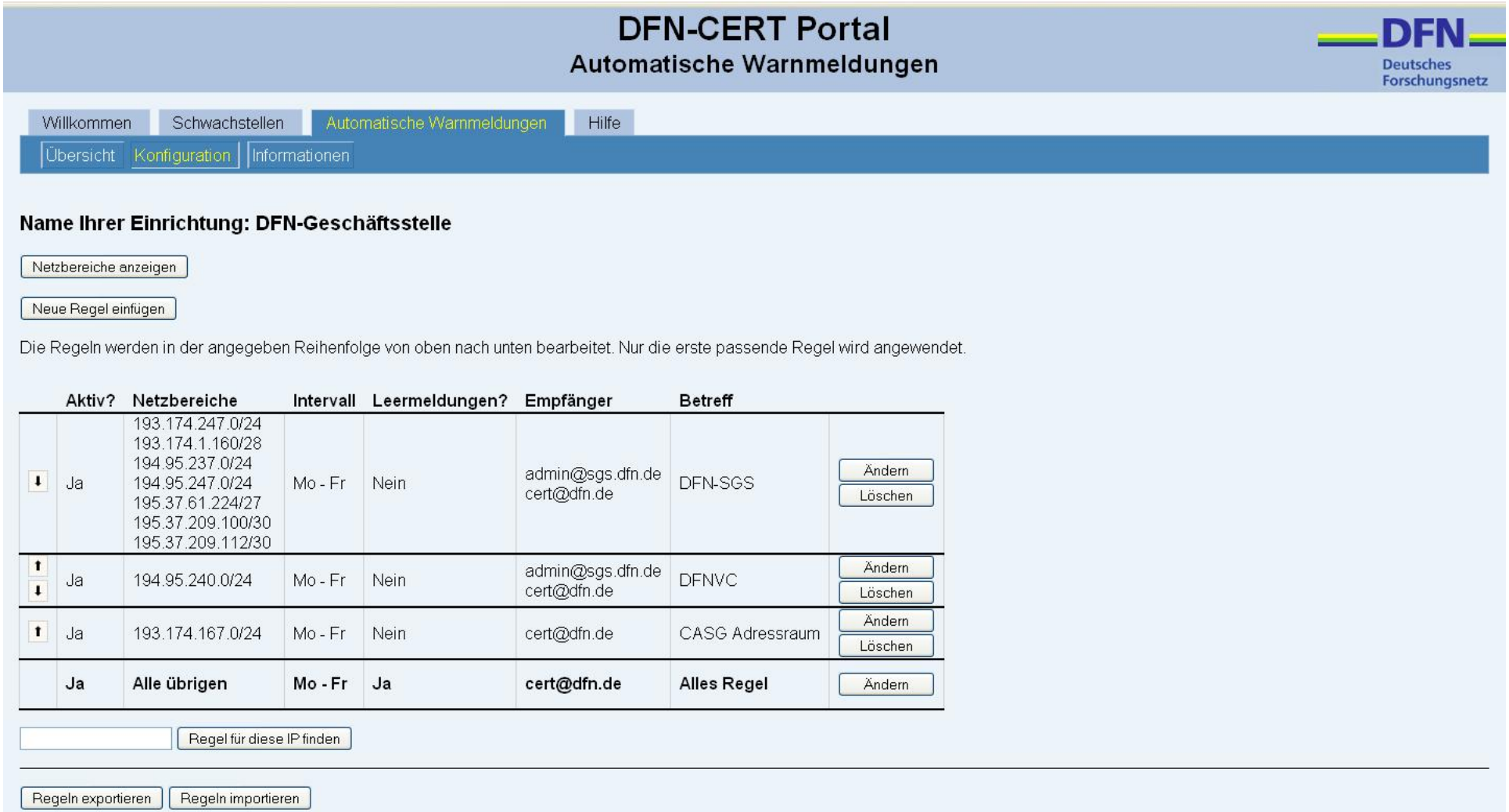
In den letzten Tagen erhielten wir Informationen über mögliche Sicherheitsprobleme auf Systemen in ihrem Netzwerk.

IP	Meldungstyp	Zuletzt gesehen
xxx.xxx.149.100	Virus/Wurm: Stormworm	2009-10-29 09:00:01
xxx.xxx.149.33	Spam-Beschwerde	2009-10-29 19:20:03

<„detailed information follows“>

...

... we have about 10.000 incident warnings per year just for our constituency!



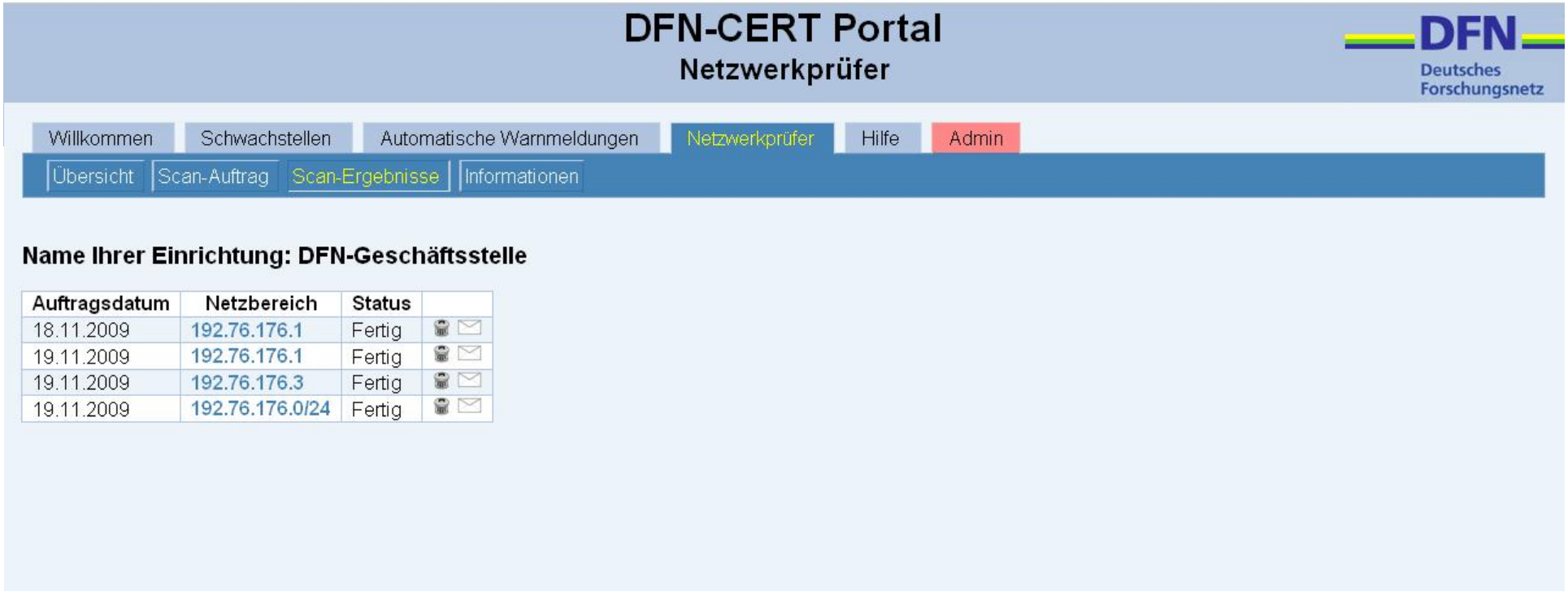
... configuration of network ranges and recipients

Automatically processable

<?xml version="1.0" encoding="utf-8" ?>
<warning incidentid="11023">
<message ip="183.22.xx.yy" timestamp="2009-11-01 21:45:05"
type="Bot">
<logrecord> TCP Quellport Malwaretyp
Zeitstempel(GMT+0000)
  ----
  unbekannt   Conficker   2009-11-01 21:45:05
  unbekannt   Conficker   2009-11-01 20:57:23
</logrecord>
<description>Auf dem System scheint eine Bot-Software betrieben zu werden, die versucht, einen HTTP- oder IRC-basierten Bot-Netz Control-Server zu erreichen. Zu den unterschiedlichen Malwaretypen finden Sie unter der folgender Webseite mehr Informationen: http://www.cert.dfn.de/index.php?id=bot</description> ....

3. “Network Scanner”
(due in spring 2010)

Type in IP-addresses of your site to be “checked” ...



... results will show open ports, services, their versions, vulnerabilities, links to patches, etc

Summary

- DFN-CERT Portal central configuration and information point for all DFN-sites
  - consolidate information in a consistent portal structure
  - offer mechanisms to configure services per site
  - send each site (each department) only information that is relevant to them
  - data can easily be integrated into local processes
- The Portal cannot replace direct support in severe cases, but it gives the IRT-experts the time to give that support!