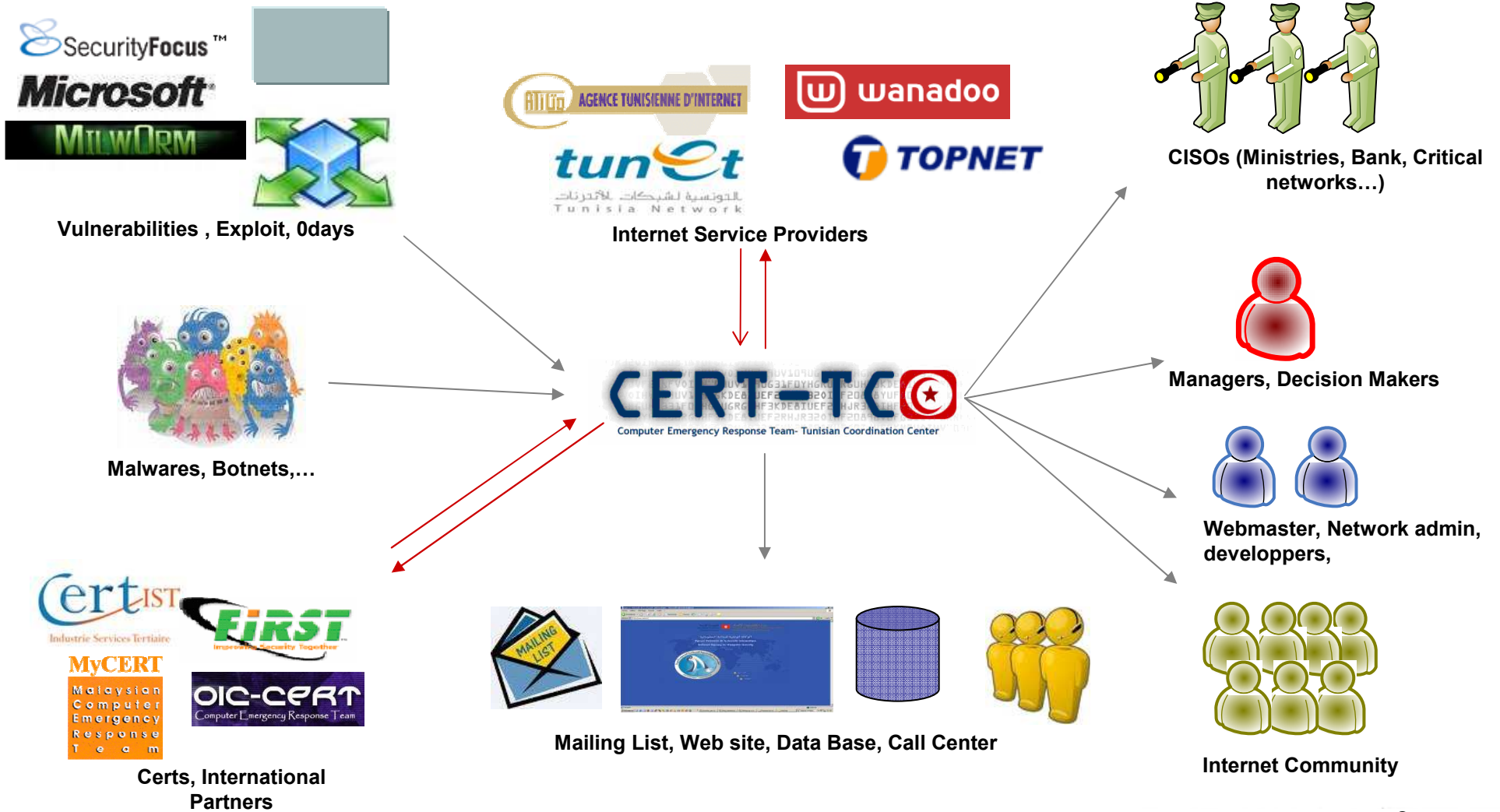


Framework

CERT-TCC Collaboration Network

N.A.C.S

www.ansi.tn
cert-tcc@ansi.tn



Watch, Warning, Information & Alert

Investigation & Incident Response Team

Information Sharing and Analysis Center

Watch, Warning, Information & Alert

Investigation & Incident Response Team

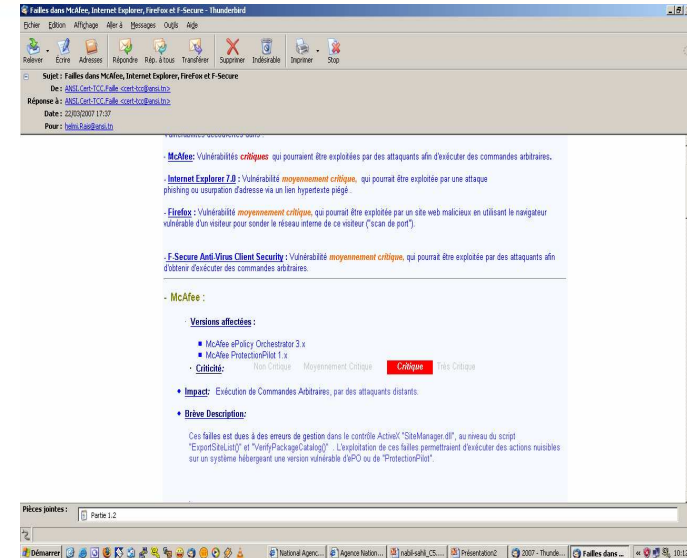
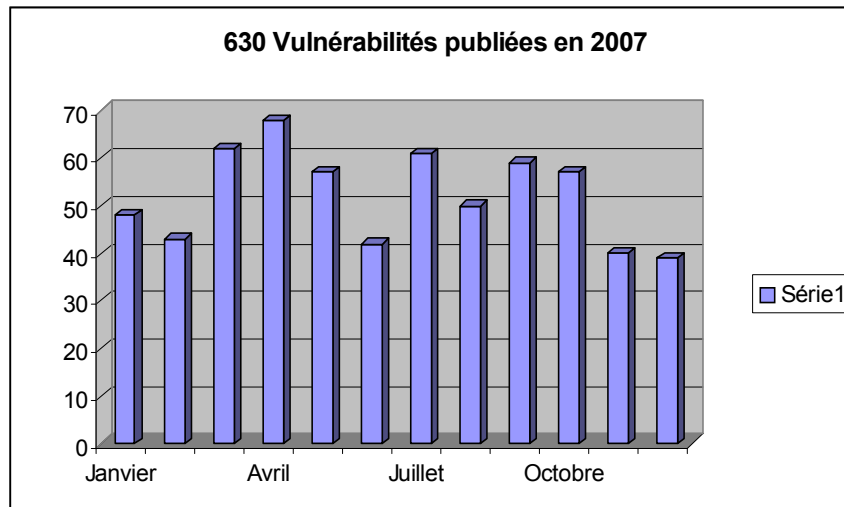
Information Sharing and Analysis Center



Threat alert :

- Analyse the state of Internet security and convey that information to the system administrators, network managers, and wide public in the Internet community.
- Monitor sources of vulnerability information and regularly sends reports and alerts on those vulnerabilities (mailing-lists, publication on the web site).
- We analyze the potential vulnerability and try to work with other CERTs and technology producers to track the solutions to these problems. We also make vulnerability information widely available through a vulnerability database.

- 1000 Vulnerabilities published in 2007-2008
- 35 Malwares published in 2007-2008



15 Minor Alerts in 2007-2008

- Microsoft Word Oday ([CERT-TCC/VuIn.2007-045](#))
- Sun Solaris Worm ([CERT-TCC/VuIn.2007-66](#))
- Microsoft Windows DNS Service ([CERT-TCC/VuIn.2007-190](#))
- Firefox et Netscape Navigator Oday ([CERT-TCC/VuIn.2007-368](#))
- Propagation of "Storm Worm" "Zhelatin.LJ" ([CERT-TCC/MAL-2007-009](#))
- *RSTP QuickTime* Vulnerability ([CERT-TCC/VuIn.2007-577](#))
- Asprox Botnet Propagation ([CERT-TCC / MAL-2008-011](#))
- Exploits of Adobe Reader Vulnerabilities ([CERT-TCC/VuIn.2008-081](#))
- Kaminisky DNS vulnerability ([CERT-TCC/VuIn.2008-330](#))

- *Netmonster : The First Virus « made in Tunisia »* ([CERT-TCC/Malw.2007-023](#))
- *Other Alerts on Scams/SPAMS and Hoaxes*

- More than **8000** *Voluntary* subscribers
- More than **600** calls Monthly served (Call Center 24/7 + Green Number)
- More than **800** Advisories sent Since 2005
 - Vulnerabilities
 - Malwares
 - Spam & Hoax
 - Open Source
 - Books
 - Tools
 - Announces

Inscription is free: a@ansi.tn (FR)

ADMIN
Vous êtes autorisé à accéder à ce compte si et seulement si vous êtes un Agent du CERT-TCC

[Logout](#)

Gestion Des Taches

- Lister Taches Non Traité
- Lister Tout Les Tache
- Ajouter Tache
- Modifier Tache
- Supprimer Tache

Gestion Des Profils

- Ajouter Profil
- Supprimer Profil
- Lister Profils
- Ajouter Mots Clé(File)
- Ajouter Mots Clé
- Supprimer Mots Clé

Assistance Technique

- Lister Fiche Intervention

Gestion Des Agents

- Ajouter Agents
- Modifier Agents

Mot Clé : Troj
Date / Heure : 2007-05-29 à 10:20:41
URL Solution : http://www.F-secure.com/v-descs/trojan-downloader_html_agent_dy.shtml
URL Source : http://www.F-secure.com/exclude/vdesc-xml/latest_50.rss
Sujet : Trojan-Downloader:HTML/Agent.DY
Description Tache : Trojan-Downloader.HTML.Agent.dy allows for the downloading and running of files on the infected computer.
Profil : Mawlware_virus
Valider ?

Demande de transfert par l'agent : Azerty Azerty à la date 2007-06-06
Valider Transfert ? Mawlware_virus

Mot Clé : Downloader
Date / Heure : 2007-05-29 à 10:20:41
URL Solution : http://www.F-secure.com/v-descs/trojan-downloader_html_agent_dy.shtml
URL Source : http://www.F-secure.com/exclude/vdesc-xml/latest_50.rss
Sujet : Trojan-Downloader:HTML/Agent.DY
Description Tache : Trojan-Downloader.HTML.Agent.dy allows for the downloading and running of files on the infected computer.
Profil : Mawlware_virus
Valider ?

Internal Workflow Solutions

Chater (Smart in Arabic) شاطر

RSS Reader , Filter, Task Management

→ Free and Open Source

CERT-TCC | Accueil | Plan du site | Contact

English | العربية | RECHERCHE

QUI SOMMES NOUS ?
 ACTUALITÉS
 AVIS DE SÉCURITÉ
 DOCUMENTATION
 PARENTS ET ENFANTS
 CONFÉRENCES ET WORKSHOPS
 OUTILS DE SÉCURITÉ
 LES AUTRES CERTS

ALERTE NATIONALE
 25.09.2007
 Risque Bas

Support en ligne
 consultation

MAILING LIST DE SECURITE
 Entrez votre adresse email

ESPACE MEMBRE
 Le Cert-IST publie son Bilan 2006 des principales vulnérabilités et attaques les...
 → Accédez à l'espace membre

Computer Emergency Response Team
 Tunisian Coordination Center

A la une

Menaces en cours

Menace	Mat. Info
Apple Mac OS X	< 3 jours
ARCServe 01/07	< 1 mois
0-day Word 12/06	< 3 jours
Failles MS 11/06	< 3 jours

→ Consulter toutes les menaces

Derniers Avis de Sécurité

- 06/05/2007 : Microsoft Windows CSRSS (MS07-021)
- 06/05/2007 : Cisco CNS Netflow Collection Engine

→ Consulter toute la liste

94, Av Jugurtha, Mutuelle Ville, 1002 Tunis, Tunisie- Numéro Vert : (+216) 80 100 267
 Tel. : (+216) 71 843 200 - Fax : (+216) 71 846 363-Email Webmaster : webmaster@ansi.tn
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Vulnerability and Malwrae Database into CERT-TCC Back Office Website

Watch, Warning , Information & Alert

Investigation & Incident Response Team

Information Sharing and Analysis Center

CERT/TCC provides :

- o A **CSIRT team** in charge of providing (free of charge) **Assistance for Incident Handling**
- o Call-center, **available 24Hours/24 and 7 days/week**

Article 10 of the Law No. 2004-5 relative to IT security

(Public & Private institutions, must inform the National Agency for Computer Security about any Incident, which can affect other Information Systems)

Article 9 of the Law No. 2004-5 relative to IT security Stipulate that

The employees of the National Computer Security Agency and security auditors are Responsible about the preservation of confidentiality and are liable to penal sanctions

- Private and public organizations should **trust** the CERT/TCC
- **Call for assistance**

- A “**Citizen’s assistance service**”, To which Home users can bring their PC to solve security problems or install security tools (anti-virus, PC firewall, anti-spam, ..), free for domestic use.
- Acting for the emergence of corporate CSIRT in some sensitive sectors (E-gov, E-Banking → Energy, Transportation, Health)

CSIRT

Investigation team

- Computer forensics
- Evidence analysis
- Investigation (Log, Hard Drive, memory dump, ...)

Intervention team

- On-site
- Incident handling process
- Evidence collection

Incident handling platform

CSIRT

Collaboration network

- Trained team
- Technical facilities (Investigation)
- Policies / Procedures
- Incident management framword

- Information sharing
- Hacker tracking
- Technical assistance

Incident reporting system 24/7

Watch

CSIRT

ISAC

- Email** : cert-tcc@ansi.tn
- Call center**: 71 843200
- Green N°**: 80 100 267

- Email** : incident@ansi.tn
- Web** : Online form
- Phone** : 71 846020

- Detection of massive attack
- Detection of critical breakdown
- Detection of web attack

Information processing and analysis

Most relevant cases

- Web defacement
- Phishing
- Sabotage
- Identity theft
- Massive virus infection
- Denial of service

Watch, Warning, Information & Alert

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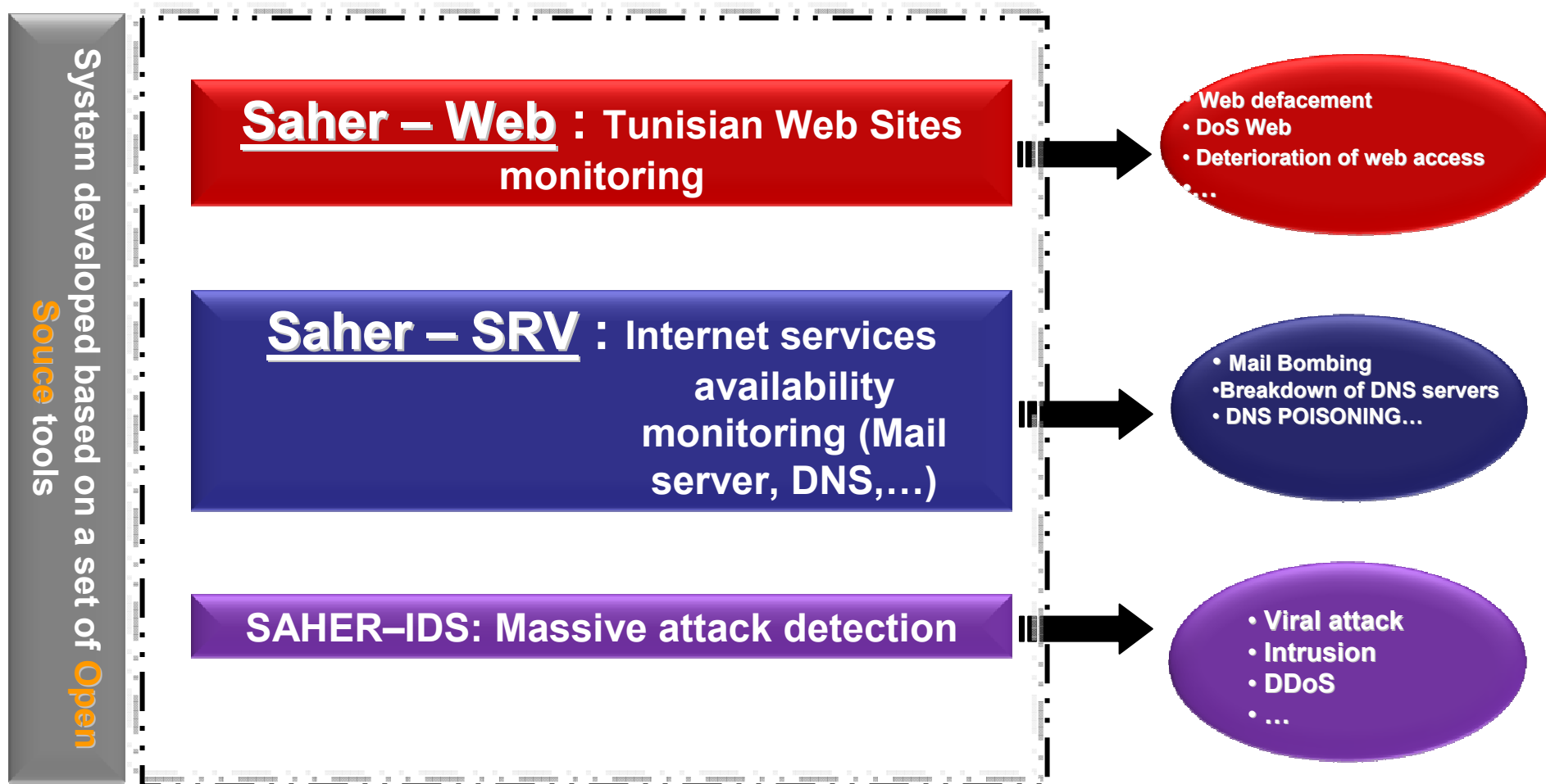
A **Watch-center** (based on **open-source solutions**), which permits to monitor the National Cyber-Space security in **Real time**,

→ **Early Detection of Mass attacks, D-Dos Attacks (Estonia 2007, Georgia 2008)**

→ For the early Detection of **potential** threats and evaluation of their impact.
(First prototype, deployed at the level of ISP, during phase 2 of WSIS)

→ **For Vulnerabilities exploitation and malwares propagation evaluation**

« Saher » Architecture



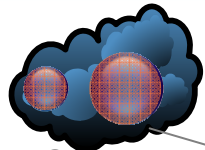


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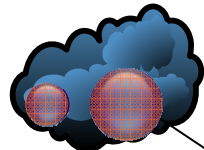


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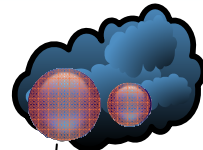
N.A.C.S



Corporate Networks



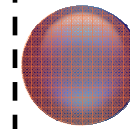
IDCs



ISP



Darknet



- Intrusion Detection
- Anomaly Detection
- Traffic Analysis

Vuln. Exploit.
Evaluation
Malw. Propag.
Evaluation

Event Gathering Database

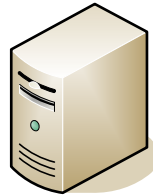


→ Gathering and Filtering of large sets of network data to identify unauthorized and potentially malicious activity (Worms, attacks, scans ...).

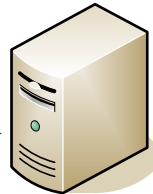


National Reaction Plan

Web,
Pop
SMTP
DNS



Critical Node Monitoring (Integrity, Availability)



Log Correlation Server

Automatic Alert-Triggers

- Scripts for Traces Correlation.
- Tools for Flows Control & analysis.
- Trace Tools.
- Scripts for "Smart Honey-Potting"
- Technical proactive and Counter-measures.

+/-



Alerting the Community

Saher – Web : Tunisian web sites monitoring

Cette page utilise des cadres. - Windows Internet Explorer

http://172.16.5.5/ansi/index.htm

Yahool Search

Echier Edition Affichage Favoris Outils ?

Cette page utilise des cadres.

Liste des sites webs modifiés:

Site	Débit (Bit/s)	Date de dernière initialisation	Date de dernière modification	Risque					
http://www.changement.tn/	0	2007-12-26 18:12:56	2007-12-26 18:12:56	0					
http://www.bct.gov.tn/bct/siteprod/francais/index_1.jsp	22,1	2007-12-26 18:24:00	2007-12-26 18:29:10	0					
http://www.tap.info.tn/	82,7	2007-12-26 18:06:19	2007-12-26 18:07:32	0					

Liste des sites webs non initialisés :

Site	Débit (Bit/s)	Date de dernière initialisation	Date de dernière modification	Risque					
http://www.annuaires.tn/	0	2007-12-26 13:41:38	2007-12-25 09:03:06	0					

Etat global

- web
 - Liste des sites
 - Ajouter
 - Supervision
- Profil
 - Ajouter profil
 - Listes des profils
- Mots clés
 - Ajouter un mot clé
 - Listes des mots clés
 - Les alarmes web
- DNS
- POP
- SMTP
- Sondes
- FSI
- CONTACT
- Outils
- Configuration

Cliquez ici pour commencer

Internet 100%

SAHER-SRV: Internet services availability monitoring (server Mail, DNS,...)

Cette page utilise des cadres. - Windows Internet Explorer

http://172.16.5.5/ansi/index.htm

Yahool Search

Fichier Edition Affichage Favoris Outils ?

Cette page utilise des cadres.

Etat global

- web
- DNS
- POP
- SMTP
- Sondes

Détails des sondes
Rapport des alarmes de sécu
Rapport des événements de s
Les alarmes de sécurité
Niveau de sécurité global

- FSI
- CONTACT
- Outils
- Configuration

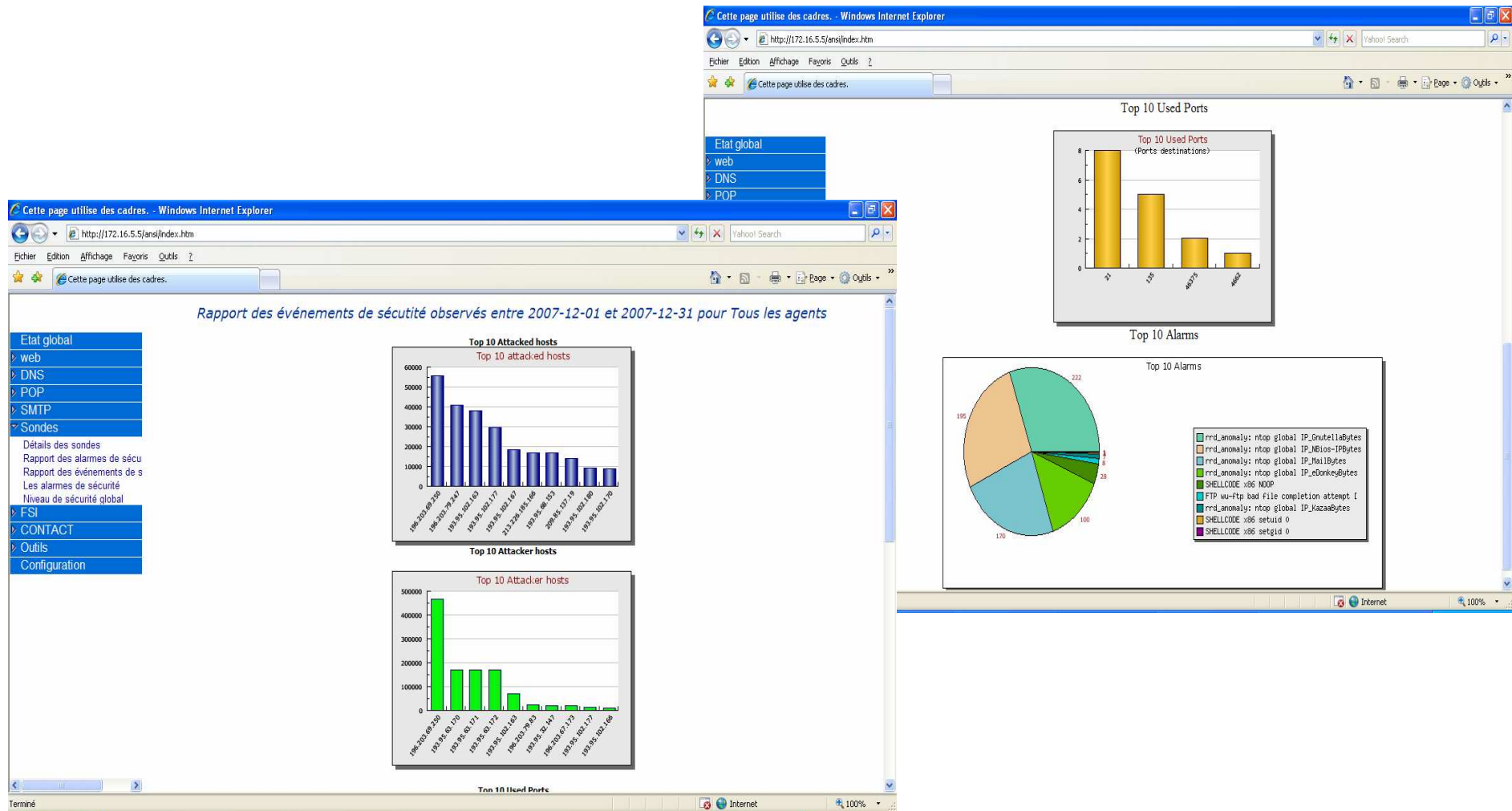
Niveau de sécurité global			
Derier jour	Derrière semaine	Derier mois	Derrière année
92.33%	92.33%	91.95%	92.33%

Niveau de sécurité par agent				
Agent	Derier jour	Derrière semaine	Derier mois	Derrière année
Centre de calcul Khawarizmi Manouba	100.00%	100.00%	100.00%	100.00%
Centre de calcul Khawarizmi Manar	100.00%	100.00%	100.00%	94.84%
Centre de calcul Khawarizmi Manzah	100.00%	100.00%	100.00%	100.00%
Sécrétariat d'état de l'informatique	100.00%	100.00%	100.00%	100.00%
Centre national de l'informatique	100.00%	100.00%	100.00%	100.00%
Ministère des technologies de la communication	100.00%	100.00%	100.00%	100.00%
Centre informatique du ministère de la santé publique	100.00%	100.00%	100.00%	100.00%
Ministère des affaires sociales	50.17%	50.15%	50.14%	88.81%
Office nationale de télédiffusion	100.00%	100.00%	100.00%	100.00%
Agence nationale de l'Internet	100.00%	100.00%	100.00%	100.00%
Ministère de justice	100.00%	100.00%	100.00%	100.00%
Ministère de l'industrie	100.00%	100.00%	100.00%	100.00%
Agence nationale de la sécurité informatique	50.17%	50.15%	50.14%	83.14%

Terminé

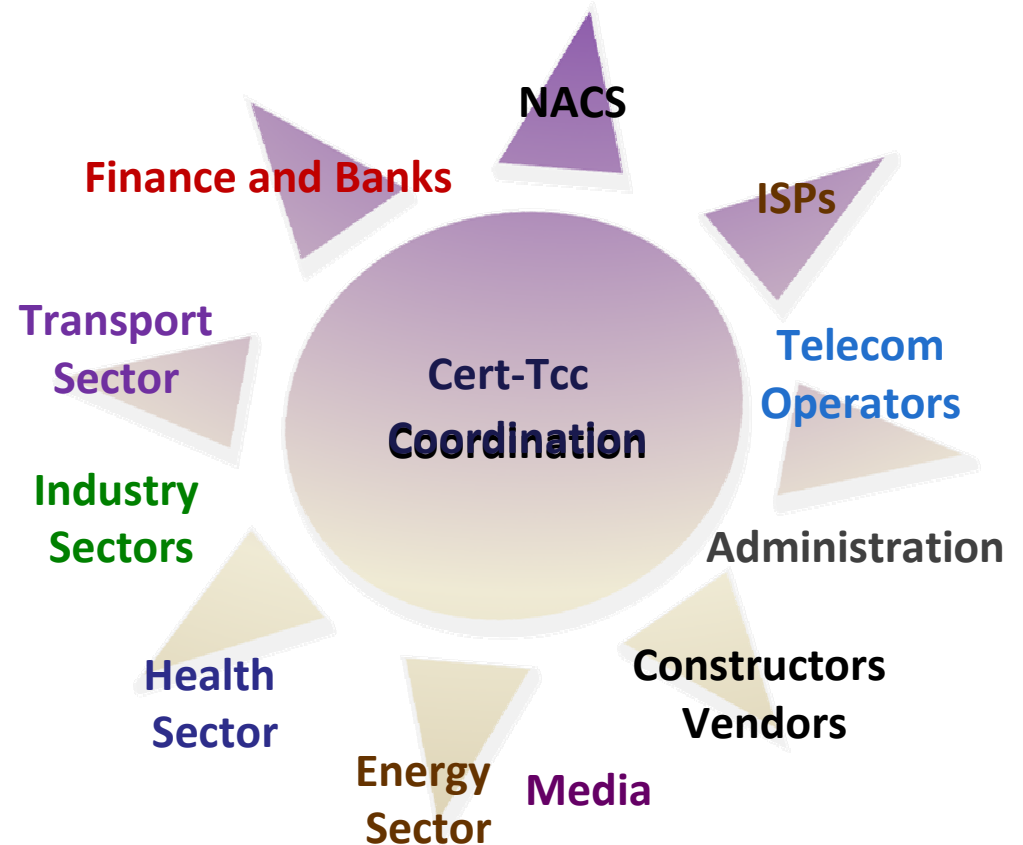
Internet 100%

Saher – IDS : Massive attack detection



- “Formal” **Global** Reaction Plan.
- Establishment of **Coordinating Crisis Cells** (ISPs, IDCs, Access Providers).

With CERT/TCC acting as a **coordinator** between them



was deployed 7 times,

During Sasser& MyDoom worms attack, during suspicious hacking activity and, proactively, during big events hosted by Tunisia (only with ISPs and telecommunication operator)

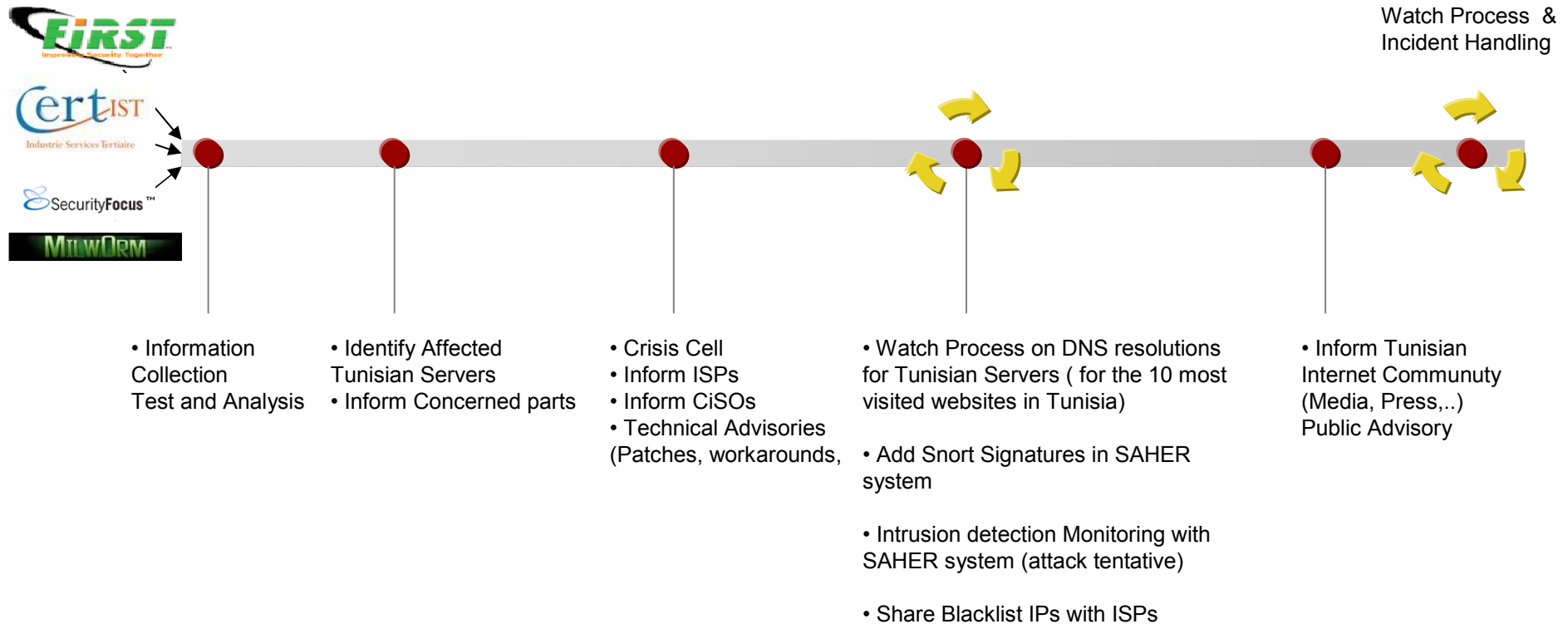


ONU Conference about Terrorism

Case Studies

- In July 2008, Kaminsky had discovered a fundamental flaw in the DNS protocol. ("Most overhyped security vulnerability")
- The flaw could allow attackers to easily perform cache poisoning attacks on any nameserver
- All internet protocols (HTTP, FTP, Email...)are affected
- Kaminsky informed DNS vendors in secret to develop a patch to make exploiting the vulnerability more difficult, which was released on July 8, 2008
- Kaminsky had intended not to publicize details of the attack until 30 days after the release of the patch, but it was accidentally leaked on July 21, 2008
- DNS Exploits has been published + Reverse Engineering on released patches
- Kaminisky had published more information about the vulnerability on August 8, 2008 at Black Hat 2008

Kaminsky DNS Vulnerability



Exchanger. JT (August 2008)

CNN.com THE DAILY TOP 10

TOP 10 STORIES

- #1. Obama beats McCain
- 2. Funnies: Celebrity Candidates?
- 3. Ancestor of T-Rex dinosaur unearthed in Poland
- 4. Edouard Triggers 'Cane Watch' for Texas
- 5. Angry, late, tired passengers make computers crash
- 6. Rig dumps tons of dirt when nature calls driver
- 7. Can a party game reveal flaws in U.S. wiretapping and war plans?
- 8. It's a buyer's market if you know what 'code words' to look for
- 9. Facebook Grows, but Where's the Profit?
- 10. Tropical Storm Edouard moving toward Texas coast

TOP 10 VIDEOS

- #1. Key to Biz Success: The Conference Table?
- 2. Celebrity was seen naked on the beach
- 3. Furnished Nazi bunkers surface in Denmark
- 4. Dog Plays Mom for Tiger Cubs
- 5. Rig dumps tons of dirt when nature calls driver
- 6. Aged Tires: A Driving Hazard?
- 7. Obama beats McCain
- 8. Ancestor of T-Rex dinosaur unearthed in Poland
- 9. Celebrity was seen naked on the beach
- 10. Social networking sites have lots of users, but to be buying.

Flash player: Incorrect version

Flash player : Incorrect version
Your browser cannot display this site.
You need to download new version flash player
Object to play this video file.

Click Continue to download and install new flash player.

Ok Cancel Continue

Antivirus XP 2008
Online protection against malicious software

Windows security status **Spyware and virus scanner**

WARNING
Security status **CRITICAL**

Recommended: Click "Download" button to install Antivirus XP 2008

DOWNLOAD NOW

Scanning for viruses [finished]
Scanning for spyware [scanning...]
Scanning system register [finished]

Main progress: 51%

Checking

Warning found probably infected data: 14
Recommended: Click the "Erase infected" button to erase all spyware and viruses from Windows

Erase infected

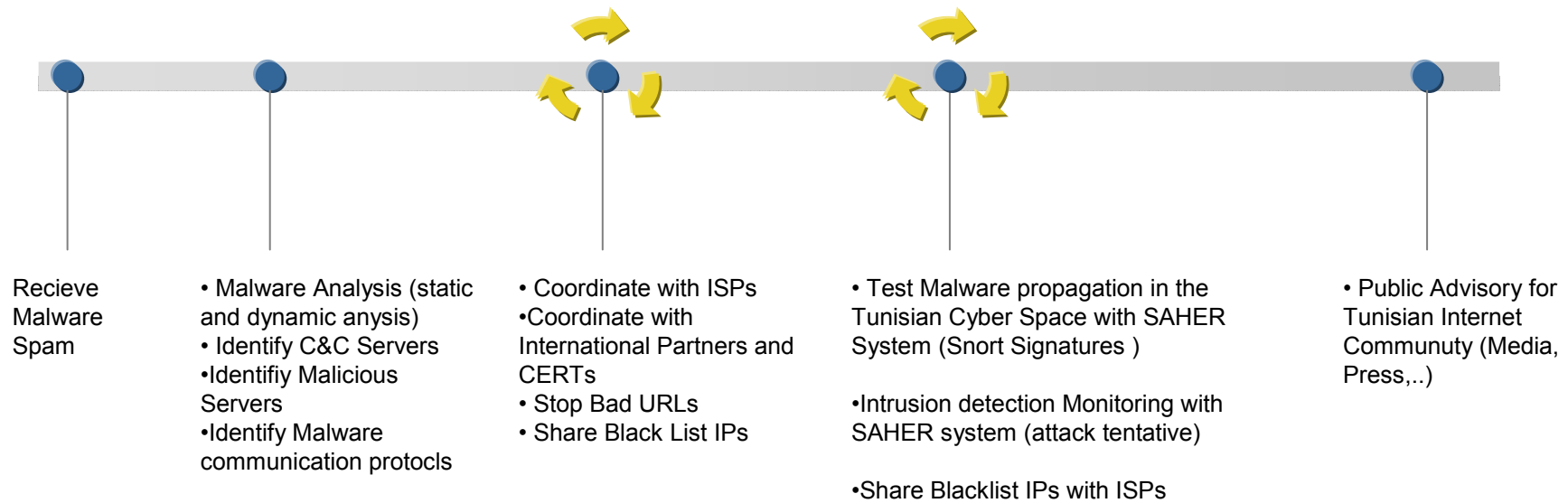
System security report

WARNING
Install update for browser protector
There is no Web browser defense. Your internet links are not protected. Attention! Real-time antivirus and antispyware protection is off.
Recommended: Click "Install" button to install browser protection

WARNING
Enable Spyware and Virus real time protection
Attention! Real-time antivirus and antispyware protection is off.
Recommended: Click "Enable" button to start antispyware virus protection

Install **Enable**

Exchanger. JT (August 2008)



Projects in progress

- **National Backup Center**
- **National Security Policy**
- **Tunisian Honeynet Project**
- **IT Security Labs: Forensics, Malware Analysis, Code Auditing, Software Assurance**
- **Assistance to set up Security and CERT/ CSIRT Cells in Ministries, GOV Establishments and also Private CERTs/CSIRTs for industrial sectors (Banks,...)**
- **Assistance to set up CERTs & Cyber Security Centers in Africa**



Thank you for your attention