TF-CSIRT

CSIRT Coordination for Europe

Minutes of the 6th TF-CSIRT Meeting

24 May 2002, Copenhagen

Agenda

1. Welcome and Apologies

Apologies were received from:

1. Mullen, Tom (BTCERTCC)
2. Price, Gareth (BT Ignite Solutions)
3. Rajnovic, Damir (PSIRT, Cisco Systems)
4. Sørensen, Torben (CERT Denmark)
5. Thorbruegge, Marco (DFN-CERT)
6. Woeber, Wilfried (UniVie/ACOnet)

2. Round of Introductions

A list of the 52 attendees for the meeting is attached as an Annex to these minutes.

3. Minutes of the 4th TF-CSIRT Meeting (Stockholm January 25, 2002)

The minutes of the previous meeting held 25 January 2002 were approved without change.

Status of open actions from previous meetings

		ACTION	STATUS
1-10	All	Send pointers to legal information to Andrew Cormack	Action concluded
3-05	Gilles Andre	Make an outline for a project proposal to the EC concerning secure emergency backup infrastructure for CSIRTs and software patents, and circulate it on the email distribution list	Ongoing action, report to 7th TF-CSIRT meeting
4-05	TERENA and W.Woeber	Prepare proposal about marketing/promotion the use of IRTContact information in the RIPE NCC Database	Ongoing, implementation issues discussed with RIPE NCC and presented on yesterday's Seminar. Present update at the next TF-CSIRT meeting.
4-09	Jan Meijer	Present IODEF work at the next FIRST Workshop in February 2002	Done
4-11	Klaus Moeller	Contact COMCRIME study's authors via DFN.	Concluded, information presented to the meeting
5-1	TERENA Secretariat	TERENA Secretariat to clarify Copyright statements from authors of the training modules and write Copyright statement for the training materials that reflects interests of the	Done

		TF-CSIRT community.	
5-2	TERENA Secretariat	TERENA Secretariat to create password protected area initially with one password and look at it use.	Ongoing, procedure agreed at the meeting, to be implemented before next meeting.
5-3	Michel Miqueu	Michel Miqueu (CERT-IST) to make presentation on their project proposal accepted by EC on May or September TF-CSIRT meeting (decide on date before the end of April).	Done. Agenda item 5.2
5-4	Andrew Cormack	Andrew Cormack to provide TI team access to old EuroCERT database.	Done
5-5	TI Review Board	TI Review Board to provide report to the next TF-CSIRT meeting in Copenhagen.	Done. Agenda item 4.2
5-6	Andrew Cormack	Andrew Cormack to send Summary of course evaluation to the list after discussion with course modules authors.	Done
5-7	Ian Briant	Ian Briant check NATO's interest in conducting special training and assisting establishing new CSIRTs in EEC and countries of the FSU.	Ongoing, reported to the meeting.
5-8	Andrew Cormack and Karel Vietsch	Andrew Cormack and Karel Vietsch to draw up financial plan and discuss it in Copenhagen to aim next courses in Autumn.	Superseded by event (TRANSITS project accepted by EC)
5-9	All, Karel Vietsch	Submit an open letter to CEC on measures how to improve the Security of Information Infrastructure. All to submit 1-2 statements (positive and negative) related to security issues. Karel Vietsch will act as an editor of the final text.	Ongoing, send new reminder to the list.
5-10	Yuri Demchenko	Yuri Demchenko to update the current version of the IODEF Data Model and XML Data Type Definition document and publish it as the final IODEF WG deliverable	Done
5-11	Jan Meijer	Jan Meijer to organise reporting on the last IODEF WG deliverables and on	Ongoing

		the INCH WG to the next TF-CSIRT meetings.	
5-12	Andrew Cormack	Andrew Cormack to set up before end of May 2002 the Clearinghouse trial (website, template), and all TF-CSIRT members to make contributions in the trial period until the end of September.	Ongoing, partly done (trial CHIHT website set up).
5-13	Karel Vietsch	Karel Vietsch to contact Hungary, Czech Republic and Lithuania and find out why they don't have CSIRTs and promote TF-CSIRT if necessary.	Done, reported to the meeting
5-14	TF-CSIRT Secretariat	TF-CSIRT Secretariat to update TF-CSIRT Term of Reference and present to the TF-CSIRT for further discussion.	Done, Agenda item 9
5-15	Gorazd Bozic	Gorazd Bozic to collect of offers and make preliminary schedule for a few meetings.	Done, information presented to the meeting

Action 4-05. There was significant move in implementation of IRTContact object in RIPE NCC Database since last meeting. Database functionality is in production since February (http://www.ripe.net/ripe/docs/databaseref-manual.html). Further implementation issues were discussed with RIPE NCC and presented on yesterday's Seminar. The issue about populating the object should be discussed later on after the initial implementation. The RIPE NCC document "IRT object in the RIPE Database" expectedly will be published shortly after meeting. The update on this action will be presented at the next TF-CSIRT meeting.

Klaus Moeller informed the meeting that COMCRIME site is not maintained anymore, and COMCRIME project is looking for extra money to continue study. **Action 4-11** was considered to be concluded.

Karel Vietsch informed the meeting that authors of the training modules agreed to transfer copyrights to TERENA, **Action 5-2** will remain ongoing till the next TF-CSIRT meeting to let TERENA technical staff to implement the agreed procedure of exchange of access information.

Action 5-7. Ian Briant reported that NATO Computer Incident Response Capability (NCIRC) Coordination Centre (CC) has been contacted, and would be interested in assisting: they had intended to attend this meeting, but unfortunately had to withdraw earlier this week. NCIRC/CC will attempt to attend next meeting.

Action 5-9. Karel Vietsch informed that he collected a number of statement from TF-CSIRT members but need some help to prepare a draft of an open letter from the TF-CSIRT community to European Commission. If nobody volunteers, he proposed to drop this action and use collected information for other regular promotion activity by TF-CSIRT. Many people promised to send their contribution to Karel Vietsch.

Action 5-13. Karel Vietsch informed that his contact of LITNET (Academic and Research Network in Lithuania) is resulted in LITNET CSIRT representative attending this meeting. Next he contacted Czech Academic Network CESNET. CESNET never had a CSIRT, and tracks incidents on ad-hoc basis, however they are going to look at common practice in other NRENs and think about establishing their own CSIRT. HUNGARNET (The Hungarian Academic & Research Computer Network) used to have a CSIRT in past but now they don't, they have a plan to re-allocate staff time and re-establish CSIRT service.

4. "Trusted Introducer" Pilot Service

Don Stikvoort made a short presentation on the current status and recent developments at the Trusted Introducer. The "Trusted Introducer" Pilot Service has now been running for almost two years. The Trusted Introducer mission is to foster trust and cooperation between CSIRTs in Europe using the following major tools: Registration, Public Services, "Networking", Accreditation, and Value Added Services. CSIRTs accredited as Level 2 teams are entitled to value added services which include: full CSIRT profiles information, downloadable keyblocks and CSV contact info, RIPE NCC database IRT object maintenance, trusted mailing list. Don provided detailed statistics on registered teams including breakdown on different categories. He also explained how is the TI services organized and how functions are split between Stelvio located in Amersfort (team leader Don Stikvoort) and Presecure located in Munster (team leader Klaus-Peter Kossakowski) which is subcontracted by Stelvio to maintain TI database.

Don's presentation is available from the meeting programme webpage at
http://www.terena.nl/tech/task-forces/tf-csirt/docs/tf-csirt6thTIreport.pdf

Karel Vietsch as a secretary of the TI Review Board (TI RB) presented a review report on Trusted Introducer which had been sent to the cert-coord mailing list in advance to the meeting. Karel explained about organisational and financial procedures behind the Trusted Introducer. TI project started in May 2000. There was not much success after one year. Now the statistics show that TI growth has reached the critical mass what allows to conclude that service is successful. However, this doesn't mean that TIRB doesn't have criticism about service provided by TI. Main issues mentioned include: information presentation on the web, needs to improve and/or change terminology used, e.g. changing definition of L2 teams as an accredited team and L1 - as a candidate team. The idea of the TI Review Board consisting of representatives of TERENA, TF-CSIRT and Level 2 teams showed itself as a good idea aimed to provide stability, consistency and auditing of the TI service, particularly to review membership.

Karel informed about financial changes since last year in increasing charge for L2 team maintenance from 600 Euros per year to 720 Euros (60 Euros per month) what actually was justified by extending value added services.

Karel summarised that TI RB suggested that TI service is successful and ready to become self-funding permanent service. Andrew Cormack thanked TERENA for help and involvement in establishing TI service.

5. EC funded/accepted projects: Presentations and issues for cooperation

5.1. EISPP - Michel Miqueu, CERT-IST

Michel Miqueu made presentation on a project "A European CERT network and SME services project". He explained background and motivation for the project. The project was submitted to the previous FP5 Call in Autumn and accepted by the Commission. The project intends to provide comprehensive IT security services for SMEs using available experience in Europe among CSIRTs and other organisations dealing with the security issues. Suggested deliverables include:

- Set up an open European CERT network of expertise to share vulnerability information based on User/SME oriented assessment
- Set up a framework to provide SMEs with adequate IT Security "prevention" service.

Michel explained the procedure of security vulnerability assessment and further delivering relevant information to SMEs and other targeted user groups like Chambers of Commerce xSP's (ISPs, ASP's).

The project contractors are BTIgnite (UK), Cert-IST (Fr), CLUSIT (It), I-NET (It), esCERT (Sp), Siemens CERT (Ge). Pilot service for initial group of SMEs to be available in late 2002.

Finishing his presentation Michel invited other interested parties to join the experiment. The full presentation is available at http://www.terena.nl/task-forces/tf-csirt/docs/tf-csirt6th.michel.miqueu.pdf

5.2. TRANSITS: Training (new) staff of (new) CSIRTs - Andrew Cormack

Andrew Cormack made a presentation on a project TRANSITS submitted to the last FP5 Call In February and accepted by the Commission. The project proposal was actually resubmitted after unsuccessful submission to the previous Call. According to the original plan the project should start in June and deliver the first training course in July (which will be mostly targeted for the JANET community). The project plans to deliver in total 6 training courses in 3 years, i.e. every six months. The first training course for CSIRT community will be in October 2002, detailed information will be available in July. There

should be some selection procedure if a number of applications will be more than 20. There will be small charge for attendees to cover logistics costs. Training courses audience will not be limited only to TERENA countries but extends to wider European geographical scope.

The main project contactors are TERENA and UKERNA. Preparation of the course materials and training itself will be partly done other parties. Normally minimum 4 course trainers will be needed for one course. So, the project should have a stock of assigned teaches/trainers.

5.3. esCSIRT - Olaf Gellert, PreSecure

Olaf Gellert presented another project "esCSIRT.net - The European CSIRT Network" accepted by the Commission. The project targets many problems related to building operational network of incident information exchange between CSIRTs. Slow progress on standards for "Incident Handler" both in professional training and in technology and tools poses more requirements on teams and creates problems in teams' interaction. The project intends to improve Exchange of Incident related information, add functionality on collection/analysis of shared data to the arsenal of tools used by CSIRTs, and enable efficient cooperation between CSIRTs. The Project will build upon existing foundations: network of trusted L2 teams and standards for intrusion/incident information exchange IDMEF/IODEF.

Seven European teams will participate in the project: CERT-POLSKA, DFN-CERT, DK-CERT, GARRNET-CERT, IRIS-CERT, JANET-CERT, Le CERT Renater, M&I/STELVIO bv, PRESECURE Consulting GmbH. Scientific coordinator of the project is Klaus-Peter Kossakowski.

The project will have two major phases Preparation (2002) and Trial (2002-2003) and consist of 5 packages:

WP2: Defining a common language that addresses the specification, adaptation and integration of available techniques, and the development of a necessary common framework; in particular the work will include adopting a common language for incident data storage and exchange based on IODEF/IDMEF.
WP3: Using the common language for establishing common framework
WP4: Gathering incident statistics by establishing the clearinghouse function built on the established common framework first serving the partners and next to be extended to a wider audience.
WP5: Gathering incident data to derive early warnings and emergency alerts; sufficient element for that stage is developing Alert policy and related techniques.

Project's dissemination activity will be carried out via project's website and active participation of project members in related bodies, associations, and clustering with other

EC projects.

5.4. Overview of other known related projects and activities in EC

This part of the agenda consisted of free discussion on projects and other related activities in EC known to TF-CSIRT members.

Karel Vietsch mentioned about the project formerly known to TF-CSIRT community as EWIS that finished in 2001 and was resubmitted as another project with focus on studies and recommendations.

Giles Andre mentioned the project "The eAWARe (E-Awareness in Europe - Fostering Trust and Confidence Amongst Digital Citizens: Increasing Public Awareness of Information Security)". The project aims to develop - through national workshops, promotional materials, interactive website and other IT means, and multimedia - public awareness across both the EU and Accession States (in co-operation with associated partners internationally) for all citizens, in order to improve the security of and lessen the risks to the critical information infrastructures.

Claudia Natanson made a note that there should be special webpage(s) with information about other projects related to Information Society Security issues. Commission pays strong attention to dissemination and projects presentation on the web. However, coordination of dissemination activities is obviously a missing issue.

Karel Vietsch mentioned about concertation meetings planned by Brussels on June 13-14, 2002 but he was sceptic about possibility to attend this meetings by any of discussed here projects as there is no guaranty that contracts will be signed by the Commission before that date.

6. Update on FIRST Activities, Don Stikvoort

Don briefed on recent FIRST developments and reminded that the next FIRST-14 conference will take place on June 21-26, 2002 on Hawaii.

7. Results of yesterday's Seminar Sessions

Yesterday's seminar sessions and discussions were admitted as useful, special interest was attracted by Europol's presentation. All Seminar presentations will be published on the web (Note: at the moment of writing these minutes - http://www.terena.nl/task-forces/tf-csirt/tf-csirt6th020525agenda.html).

Gorazd Bozic informed that discussion about RIPE NCC Database IRT Object continued at the Level 2 teams meeting that took place after the Seminar, and it was decided: 1) not

to put any limitations on who can create the IRT object; 2) use TI database for verifying information about CSIRT status; 3) establish a working group of Don Stikvoort (Trusted Introducer), Andrew Cormack (TI Review Board), Andrei Robachevsky (RIPE NCC) to draft proposal about IRT Object creation procedure.

8. Summary of the TF-CSIRT Charter Discussion

Yuri Demchenko presented the updated TF-CSIRT Term of Reference and pointed out on changes made as a result of discussion on the list. Proposed draft was accepted with one minor clarification about the TF-CSIRT members participation in the IODEF development in the frame of IETF INCH WG.

Yuri also explained that TTC recommended to assign to each TF's deliverable a group/team of volunteers (of the task force members) who will take over particular deliverable. Detailed discussion on the deliverables was resulted in forming initial list of teams that need to be continued on the list to make teams assignment to all deliverables before the next 7th TF-CSIRT meeting.

Action 6-1. TF-CSIRT secretariat, TF-CSIRT chair to finish forming teams for each deliverable.

Special attention was devoted to discussion of the "Deliverable G. Assistance to the establishment of new CSIRTs". Proposed team consisting of Przemyslaw Jaroszevski, Andrew Cormack, Don Stikvoort, Claudia Natanson, Andrew Powel will work on documents on Best Current Practice in CSIRT organisation and will develop recommendations how to assist the establishment of new teams via tutorship/mentorship from experienced teams. Separate mailing list csirt-bcp@terena.nl will be created for discussions on related topics.

Both Deliverables "H. Incident Handling" and "I. Incident Information" deserved some discussion. People thought that these tasks are important and viable. At least three TF-CSIRT members expressed their interest to work on Deliverable H Jan Meijer, Hans De Vries from CERT-NL and JANET-CERT representative, more people expectedly will join this work. It was decided to start discussion on this deliverable on general mailing list and later on to move it to the specialized mailing list, if necessary. David Parker mentioned regarding Deliverable I that he has already raised the question about what information can be shared between CSIRT at the Level 2 teams meeting. He was proposed to draft his ideas and send to the list.

Action 6-2. Jan Meijer to initiate discussion on the "Deliverable H. Incident Handling" and define possible development and outcome.

Action 6-3. David Parker to draft idea what information can be shared between CSIRTs in the context of the Deliverable I.

The issue about collaboration with FIRST was discussed in details. People expressed their wish that more European candidates should be elected in the FIRST Steering Committee. Don Stikvoort advised to use the FIRST Annual meeting to rise questions about more formal cooperation between FIRST and TF-CSIRT. Andrei Robachevsky proposed to encourage FIRST to register FIRST members in RIPE NCC database. One of ideas was to recommend establishing activities similar to TF-CSIRT in other regions, e.g. in Asia Pacific and North America. It was accepted as a good idea to organise a BoF on Regional initiatives at the FIRST Conference. David Parker volunteered to do this.

Action 6-4. David Parker to organise a BoF on Regional initiatives at the FIRST Conference.

Another possible action to promote TF-CSIRT to the FIRST community would be to send information about TF-CSIRT activities to the FIRST mailing list.

Action 6-5. Gorazd Bozic to send information about TF-CSIRT activities to the FIRST mailing list.

Finalising discussion on new TF-CSIRT Terms of Reference, Karel Vietsch assured on behalf of TERENA that TERENA will be happy to continue secretarial support of the TF-CSIRT as it is one of the major and the most successful task force at TERENA.

9. IODEF Update - Jan Meijer, CERT-NL

Jan updated on current status of IODEF development and informed about the 2nd INCH BOF that took place on March 21, 2002 at the last IETF53 in Minneapolis. This BoF followed the successful first BoF at IETF52 in Salt Lake City and was devoted to some practical issues regarding further IODEF development. Jan will be an editor of the IODEF Data Model and XML DTD document which is currently submitted as an individual submission (http://www.ietf.org/internet-drafts/draft-meijer-inch-iodef-00.txt). Somebody from Japan will take over the new IODEF requirements document.

The request for establishing INCH WG is pending at IESG and there is a promise from the Security Area director that the working group will be approved before the next IETF54 in Yokohama. Next INCH BoF is scheduled on July 18, 2002.

Jan also overviewed results of recent discussions on IODEF at the last BoF and on the INCH mailing list. One of issues discussed at the BoF was about handling multiple reports exchange, particularly in case when one incident involves many attackers and victims. It was decided that IODEF Incident description will contain only one Attacker and one Victim elements; all other relations between correlated incidents will be handled by the Incident Handling System (IHS). Some other proposed changes include: changes to the purpose and restriction attributes of the Incident class, changes to the definition of the Action element, different presentations of the Contact class, and others. Jan invited all interested people to look at the Internet Draft and contribute to the discussion on the

INCH mailing list inch@nic.surfnet.nl (mailing list archive - http://listserv.surfnet.nl/archives/inch.html).

Jan answered some questions from audience, particularly regarding mapping between possible IODEF implementations in different IHS and by different CSIRTs. He confirmed that these issues are in the agenda of INCH BoF/WG and relate to the general problem of the Incident Object persistence. Issues about using XML signature and Encryption for IO protection also need more discussion.

10. Other Work Items

10.1. Clearinghouse of Incident Handling Tools (CHIHT) - Andrew Cormack, JANET-CERT

Andrew Cormack updated on the TF-CSIRT Deliverable and action from previous meeting on Clearinghouse for Incident Handling Tools (CHIHT). Information about current pilot implementation of CHIHT at JANET-CERT was posted to the cert-coord mailing list in advance to the TF-CSIRT meeting and currently pilot CHIHT implementation is available at http://www.eurocert.net/temp/. All information about Incident Handling Tools is encoded in XML format and stored as a single file with XML style mark-up. XSLT is used to convert requested selection of tools to a simple HTML format. Current implementation is simple and uses simple perl script to produce simple HTML file.

Collected CHIHT tools cover all CSIRT procedures including incident investigation and handling. Andrew invited people to look at the current implementation and collection of tools and contribute to reviewing and description of already referenced/collected and new tools. He proposed to review the progress with CHIHT and its use by TF-CSIRT members and other people at the next TF-CSIRT meeting and decide how to proceed.

During discussion it was proposed to include also tools written by CSIRTs. The issue whether to keep CHIHT as a central repository of reference information or to allow also mirroring the site, deserved discussion about mirroring procedure and authenticity of mirrored sites and tools in particularly. Andrew remarked that currently proposed solution requires minimum maintenance.

10.2. Assistance to establishment of new CSIRTs

The issues of assistance to establishment of new CSIRTs had been discussed earlier in the Agenda item 8 about the TF-CSIRT Term of Reference. One more issue was raised about travel support for CSIRT members from countries with limited resources and particularly from Eastern European countries. Karel Vietsch explained that in past time European Commission used to support some bigger projects that might include special travel funding but now this practice is deprecated. Gorazd Bozic mentioned about Soros

Foundation as one of possibilities for Eastern European and Former Soviet Union countries to receive some support for their activities.

It was proposed for TERENA to investigate possible resources for travel support to attend TF-CSIRT meetings for some TF-CSIRT members. It was also expressed opinion that TF-CSIRT meeting should abstain of general meeting sponsorship. In case if local host experience some difficulties, they may introduce small free for attendance.

Action 6-6. TERENA Secretariat to investigate possible resources for travel support to attend TF-CSIRT meetings for some TF-CSIRT members.

11. Dates and Locations of the next meeting of TF-CSIRT

7th meeting will take place on 26-27 September 2002 on Syros in Greece and will be hosted by GRNET-CERT.
8th meeting will take place on 23-24 January 2003 in Zagreb, Croatia.
9th meeting will take place on May 29-30 2003 in Warsaw and will be accompanied by training courses on 27-28 May 2003.
10th meeting will take place on 25-26 September 2003 in Amsterdam, Netherlands.

12. Any Other Business

Don Stikvoort informed about newly established Dutch Government CSIRT called CERT-RO. Stelvio provided consulting service in establishing this team. CERT-RO is currently Level 1 team and expected to become Level 2 team according to normal routine.

13. New and Open Actions

		ACTION	STATUS
3-05	Gilles Andre	Make an outline for a project proposal to the EC concerning secure emergency backup infrastructure for CSIRTs and software patents, and circulate it on the email distribution list	Ongoing action, report to 7th TF-CSIRT meeting
4-05	TERENA and W.Woeber	Prepare proposal about marketing/promotion the use of IRTContact information in the RIPE NCC Database	Ongoing. Provide update on development at the

			next TF-CSIRT meeting.
5-2	TERENA Secretariat	TERENA Secretariat to create password protected area initially with one password and look at it use.	Ongoing, procedure agreed at the meeting, to be implemented before next meeting.
5-7	Ian Briant	Ian Briant check NATO's interest in conducting special training and assisting establishing new CSIRTs in EEC and countries of the FSU.	Ongoing, NATO representative to attend next meeting.
5-9	All, Karel Vietsch	Submit an open letter to CEC on measures how to improve the Security of Information Infrastructure. All to submit 1-2 statements (positive and negative) related to security issues. Karel Vietsch will act as an editor of the final text.	Ongoing, send new reminder to the list.
5-11	Jan Meijer	Jan Meijer to organise reporting on the last IODEF WG deliverables and on the INCH WG to the next TF-CSIRT meetings.	Ongoing
5-12	Andrew Cormack	Andrew Cormack to set up before end May 2002 the Clearinghouse trial (website, template), and all TF-CSIRT members to make contributions in the trial period until the end of September.	Ongoing, Andrew to request contribution.
6-1	TF-CSIRT secretariat, TF-CSIRT chair	TF-CSIRT secretariat, TF-CSIRT chair to finish forming teams for each deliverable.	
6-2	Jan Meijer	Jan Meijer to initiate discussion on the "Deliverable H. Incident Handling" and define possible development and outcome.	
6-3	David Parker	David Parker to draft idea what information can be shared between CSIRTs in the context of the Deliverable I.	
6-4	David Parker	David Parker to organise a BoF on Regional initiatives at the FIRST	

		Conference.	
6-5	Gorazd Bozic	Gorazd Bozic to send information about TF-CSIRT activities to the FIRST mailing list.	
6-6	TERENA Secretariat	TERENA Secretariat to investigate possible resources for travel support to attend TF-CSIRT meetings for some TF-CSIRT members.	

Appendix A.

List of Attendees 6th TF-CSIRT Meeting
24 May 2002, Copenhagen

1	Andersen, Preben	CERT Denmark
2	Arvidsson, Jimmy	TeliaCERT
3	Bevilacqua, Matias	EsCERT
4	Bone, Andrew	JANET-CERT UKERNA
5	Bozic, Gorazd	ARNES
6	Bryant, Ian	MODCERT - Hd JSyCC
7	Cecchini, Roberto	GARR-CERT
8	Cormack, Andrew	JANET-CERT, UKERNA
9	DANHO, Michelle	CERT Renater
10	De Vries, Hans	Delft University of Technology
11	Demchenko, Yuri	TERENA
12	DUPUY, Michel	CERTA
13	Dörrie, Ralf	Telekom-CERT
14	Enquist, Torsten	TeliaCERT
15	Enstad, Per Arne	UNINETT CERT
16	Francisco Jesús, Monserrat Coll	IRIS-CERT, RedIRIS
17	Gellert, Olaf	PreSecure
18	Gilles, ANDRE	CERTA
19	Glavor, Natasa	CARNet
20	Goebel, Oliver	RUS-CERT
21	Green, John	UKERNA

22	Grossklaus, Axel	PreSecure
23	Hanno, Kristina	Post- och telestyrelsen
24	Huopio, Kauto	FICORA / CERT-FI
25	Jaroszewski, Przemyslaw	CERT Polska
26	Kiermayr, Ulrich	AcoNet
27	Kristensen, Bjørn	TDC CSIRT
28	Lehtimäki, Timo	FICORA / CERT-FI
29	Lima, Francoise-Marie	MODCERT - JSyCC Pol/Plans
30	Maj, Miroslaw	CERT Polska
31	Malagon, Chelo	IRIS-CERT, RedIRIS
32	Meijer, Jan	SURFnet/CERT-NL
33	MIQUEU, Michel	Cert-IST
34	Moeller, Klaus	DFN-CERT
35	Natanson, Claudia	BT Ignite Solutions
36	Parker, David	NISCC
37	Pieters, Menno	Stelvio
38	Pohjolainen, Leila	Funet CERT
39	Powell, Andrew	UNIRAS
40	Quintieri, Alex	EsCERT
41	Robachevsky, Andrei	RIPE NCC
42	Schuurman, Jacques	SURFnet/CERT-NL
43	Silicki, Krzysztof	CERT Polska
44	Stamm, Mikael	CERT Denmark
45	Staub, Harald	SWITCH-CERT
46	Stikvoort, Don	Stelvio
47	Stridh, Thomas	SUNET-CERT
48	Urkis, Marius	Litnet CERT
49	Vietsch, Karel	TERENA
50	Walton, Robert	DANCERT
51	Wictorin, Torbjörn	SUNet CERT
52	Xarhoulacos, Steven	GRNET-CERT