

INFORMATION SOCIETY TECHNOLOGIES (IST) PROGRAMME



Large Scale Monitoring of BroadBand Internet Infrastructure
Contract No. 004336

Deliverable D4.3a: First period dissemination report

Abstract: This document summarizes the dissemination activities which have been performed during the first year of the Lobster project. It covers tasks related to Work Package 4.3.

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| Contributors | |

The LOBSTER Consortium consists of:

| | | |
|-----------|-------------|----------------|
| FORTH-ICS | Coordinator | Greece |
| VU | Partner | Netherlands |
| CESNET | Partner | Czech Republic |
| UNINETT | Partner | Norway |
| ENDACE | Partner | United Kingdom |
| Alcatel | Partner | France |
| FORTHnet | Partner | Greece |
| TNO | Partner | Netherlands |
| TERENA | Partner | Netherlands |



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TF-NGN and TF-CSIRT task forces

TF-NGN is a TERENA task force composed of representatives of the National Research Networks and of research institutions with the aim to study and develop technologies which are viewed as strategically important for the NRNs.

TERENA presented a paper titled “the LOBSTER project” at the 14th TF-CSIRT event in London, UK, January 2005.

<http://www.ist-lobster.org/publications/kaskina-tfcsirt.pdf>

It also organized a seminar slot about LOBSTER at the TF-CSIRT event in Zurich, Switzerland on 12 May 2005:

Update on Lobster and Nerd, , Zurich, Switzerland 12/05/2005

<http://www.ist-lobster.org/publications/LOBSTER-hoogstraaten.pdf>

IETF participation

LOBSTER project has not yet reached the step where opportunities to submit communications at the IETF could be investigated.

Due to IETF way of running, it is expected to have experiment and feedback from initial deployment before to make LOBSTER solutions on agenda of discussions. This will provide better deployment and implementation background which will be used to enrich proposal to IETF, increasing the chance not to be rejected.

IETF is composed of working-group where specific subjects are discussed with objective to get consensus on technical (protocol) solutions. Scope and existence of Working Groups are moving fast (from meeting to meeting), thus a targeted working group will not forcedly be active at the time LOBSTER will be able to present. Anyway, foreseen groups are IPPM (IP Performance Metrics).and Extended Incident Handling (inch) where DiMAPI could be proposed as part of the standard(s).

Internal presentations and presentations to customers

ALCATEL took the opportunities to present the LOBSTER project to the entities he had contact with when looking for entities to answer the first questionnaire:

Alcanet

is an Alcatel division responsible of the internal ALCATEL network. A two hours presentation of the Lobster project and of our contribution to it was given. Alcanet already uses commercial products for the purpose of monitoring its network. If these tools don't provide the level of packets inspections provided by Lobster they cover the current needs for operating the network. The main area of interest about LOBSTER is



for planning network evolutions and for network security. No formal engagement for future collaboration with Alcanet have been made, but we keep them informed about the project progress.

France Telecom:

Alcatel resources involved in the LOBSTER project has regular contacts with France Telecom research team and when investigating collaborations related to monitoring subjects, the opportunity to use the LOBSTER platform has been suggested.

Renater

The feasibility of deploying a Lobster probe in their test network is still ongoing.

Lobster platform in Alcatel R&I lab

This platform is ready to receive our Lobster prototype based on an AdvancedTCA shelf. Starting in March 2006 we expect including a Lobster demo to the shows presented to customers and Alcatel business divisions visiting our Lab.

The Alcatel prototype is based on the now widely adopted AdvancedTCA specifications and we aim at using a network-processor based board to support the packet processing module of LOBSTER. As part of the hardware study for LOBSTER, Alcatel had contact with hardware and software providers and the project was presented to the following companies:

Network processors providers:

- Intel®
- Cavium Networks®

AdvancedTCA providers:

- Kontron®
- Alcatel Lannion
- Schroff®

Participation in conferences and Workshops

Presentations

Hereafter is the list of events where the partners were invited to give LOBSTER-related presentations.

- Passive Network Monitoring. In Workshop on Security Issues in Heterogeneous Networks in Brussels, Belgium, December 2004
http://www.ist-lobster.org/publications/markatos_scampi_lobster_security.pdf
- LOBSTER: Large-Scale Monitoring of Broadband Internet Infrastructure. In BroadBand Europe 2004 event in Bruges Belgium, December 2004
<http://www.ist-lobster.org/publications/oslebo-bbe.pdf>
- Network Monitoring for Performance and Security. In EC-Bridge Conference and Exhibition in Shanghai, China, December 2004
<http://www.ist-lobster.org/publications/ecbridge-scampi-lobster.pdf>



- Worm Detection: Network-internal Mechanisms and Infrastructure in NORDUnet networking conference, 8/4/2005 in Svalbar, Norway
<http://www.ist-lobster.org/publications/nordunet05-kostas.pdf>
- Some Thoughts on The Threat of Internet Worms: a security research perspective. In Internet Security - Internet stability challenges, 18/1/2005, Brussels.
<http://www.ist-lobster.org/publications/anagnostakis-wis.pdf>
- Geant2 JRA1 meeting, “Lobster project presentation”, Zurich, Switzerland 13/04/2005
<http://www.ist-lobster.org/publications/lobster-ubik-jr1.pdf>
Collaboration with the Geant2 JRA1 project is led by CESNET, this partner being involved in both projects. A presentation about Lobster and JRA1 relation has also been included in the Lobster first workshop.

A set of presentations has also been developed for the first Lobster workshop in Poznan, Poland (7/06/2005)

- "Large-Scale Infrastructure for Passive Monitoring"
<http://www.ist-lobster.org/events/tnc-2005/lobster-intro.html>
- "LOBSTER use cases for NREN's"
<http://www.ist-lobster.org/events/tnc-2005/use-cases.html>
- “GN2 JRA1 monitoring approach and relation with LOBSTER”
<http://www.ist-lobster.org/events/tnc-2005/gn2-jra1.html>
- "Full Packet Passive Monitoring Sensors: Hardware and Software Challenges"
<http://www.ist-lobster.org/events/tnc-2005/combo.html>
- "Fairly Fast Packet Filtering"
<http://www.ist-lobster.org/events/tnc-2005/ffpf.html>
- "Latest Developments in DAG Data Capture Technology”
<http://www.ist-lobster.org/events/tnc-2005/endace.html>

As a result of these presentations, opportunities for new collaborations related to monitoring subjects have been raised with:

Shanghai Jiao Tong University
EMIC
Perceval (Belgium)

Publications

The following publication, related to LOBSTER, has also been released during the first year of the project:

- Mihai Cristea, Willem de Bruijn and Herbert Bos “FPL-3: towards language support for distributed packet processing”, in Proceedings of the IFIP Networking, May 2005
http://www.ist-lobster.org/publications/Networking_05.pdf



Media communications

- In the 63rd ERCIM online news (October 2005): Towards a European Malware Containment Infrastructure:

http://www.ercim.org/publication/Ercim_News/enw63/markatos.html

- In the Dutch media: VU has been able to introduce the Lobster project as part of interviews or reports related to the Internet infrastructure security. The link to these communications can be found on the VU website:

<http://www.cs.vu.nl/~herbertb/press.html>

LOBSTER Frequently Asked Questions

The various contacts the partners had when presenting LOBSTER, revealed the necessity of publishing a “FAQ” about the LOBSTER project. This is to help possible entities interested in monitoring activities gather the benefits they can gain from LOBSTER and to give them a better understanding of what is necessary to deploy monitoring sensors and start using applications relying on the LOBSTER Infrastructure.

The LOBSTER FAQ is available on the LOBSTER web site: <http://www.ist-lobster.org/about/faq.html>.