

OPTET



Operational Trustworthiness Enabling Technologies

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The OPTET Dagstuhl Event
22nd - 25th June, 2014

J.B. van Veelen, (bernard.vanveelen@d-cis.nl)

S. Paulus, (paulus@fh-brandenburg.de)

About OPTET

In the past **trust** was one of the drivers that lead to a self-reinforcing cycle of socio-economic activity facilitating distribution, sharing and collaboration. However, trust in Internet and Internet-based applications is eroding. **OPTET** aims to reverse that trend and substantially increase the trust and confidence in web-based systems and services. To achieve this goal, **OPTET** develops concepts and processes to manage the trustworthiness of these systems and develops technologies that enable evidence-based trustworthiness management. The potential of the **OPTET** results will be demonstrated and evaluated in the context of two operational use cases, in **Cyber Crisis Management** and **Ambient Assisted Living**.



The OPTET Approach

OPTET defines a unique approach that is designed to cover all relevant aspects of trust and trustworthiness. The approach starts with a unified **cross-disciplinary model** of **trust** and **trustworthiness**, designed by a team including social scientists, economists, legal experts & computer scientists.

This model will be used to represent and quantify the **trust** of all stakeholders and the **trustworthiness** of socio-technical systems.

Expected Impact

The **OPTET** project will deliver a set of generic enablers for trust in order to:

- Improve European industrial **competitiveness** in secure & trusted cloud and service-based ICT
- Accelerate the **uptake** of large scale heterogeneous systems for **serious applications** and domains
- **Increase** the **trustworthiness** of systems
- Enable users to make **informed decisions** about trustworthiness and to adapt their trust perception
- Scale to heterogeneous technologies and platforms

Expected Results

The results from **OPTET** will allow trust and trustworthy generic enablers to be embedded into existing service platforms, such as **FI-WARE** and **UNIVERSAAL**. **OPTET** delivers:

- A **unified model** of trust and trustworthiness
- A **Trustworthy Development Approach** in constrained and controlled development variants to methodically support the creation of trustworthy applications and internet services
- A **Trustworthy Application Factory** using a full life-cycle approach for the design, development, deployment and operation of trustworthy systems based on evidence
- A **Trustworthy Service Marketplace** allowing the selection of services based on trust and security concerns.
- **Monitoring tools** to evaluate the trustworthiness status of a system
- **Validation** via integration in two different scenarios and platforms.

The OPTET project is co-funded by the European Commission within the Seventh Framework Program (FP7-ICT-2011-8, Project No. 317631). Duration: November 2012 – October 2015.

The OPTET Event in Dagstuhl

The OPTET Event in Dagstuhl is a **workshop**, where we want to invite **academic** and **industrial peers**, the review commission and the advisory board to discuss the industrial viability of preliminary OPTET results and ethical, legal and social issues (**ELSI**) of OPTET technology. We want to introduce the invited guests to the OPTET vision and ambition and demonstrate the results we have achieved so far.

The idea behind the event is twofold: **disseminate** the current progress and results of the OPTET project and invite **experts** to comment on these, talk to us about their insights in industrial challenges and address ELSI issues that we should take into account.

We will basically ask the experts what issues give them a headache and try to find how OPTET can help solve these issues.

In the sessions that follow, we will work in **collaboration** with the invited **experts** on how OPTET can answer those **challenges**. We'll also work on the exploitation and dissemination plans that we have as a project-consortium and as individual members.

The **expected result** of the event will be that we as a project have:

- realistic targets and advanced plans for exploitation
- ideas for improvement of the ELSI in OPTET
- An inventory of dissemination opportunities and a well-defined dissemination strategy

The **first day** of the event we will present **OPTET**, its vision and ambition, as well as the **results** we have achieved so far, including **demonstrations**.

The **second day** the **experts** will address the OPTET community, tell them about the **challenges** in their respective area of expertise (concerning trust and trustworthiness). This will lead to a **discussion** between the OPTET community and the experts, revealing **opportunities** for OPTET **exploitation** and potential **improvement** of the OPTET project.

Starting the **second day** and continuing on the **third day**, the OPTET and expert members will collaboratively start writing a **report** on **current challenges** in trust and trustworthiness and how OPTET can help **resolve** these issues.

Venue

Schloss Dagstuhl - Leibniz Center for Informatics is the world's premier venue for informatics. World-class scientists, promising young researchers and practitioners come together to exchange their knowledge and to discuss their research findings.

The center promotes fundamental and applied research, continuing and advanced academic education, and the transfer of knowledge between those involved in the research side and application side of informatics.

The key instruments for promoting research are the Dagstuhl Seminars and the Dagstuhl Perspectives

Workshops, which bring together internationally renowned leading scientists for the purpose of exploring a cutting-edge informatics topic. The friendly and open climate at the conference center promotes a culture of communication and exchange among the seminar participants.

The non-profit center is a member of the Leibnitz Association and is funded jointly by the German federal government and a number of state governments.



Schloss Dagstuhl

Concept Agenda for the Workshop

The agenda is still in preparation, some details are subject to change. Address change requests to **Bernard** or **Sachar**.

Sunday, June 22	Arrival from 15:00 15:00 19:00	19:00	Open Space for Collaboration and Preparation Light Dinner
Monday, June 23	9:00 9:15 10:00 10:30 12:00 13:30 15:00 15:30 17:00 17:00 18:30	9:15 10:00 10:30 12:00 13:30 15:00 15:30 17:00 18:00	Welcome & Targets & Logistics Introductions Coffee Intro OPTET Lunch Demo session 1: engineering & marketplace Break Demo session 2: runtime & E2E TW computation First feedback from guests Social Event
Tuesday, June 24	9:00 9:15 10:00 10:45 11:15 12:00 13:30 15:00 15:30 17:00 17:00 18:00 19:00	9:15 10:00 10:45 11:15 12:00 13:30 15:00 15:30 17:00 18:00 19:00 21:00	Resumé Day 1 & Targets Day 2 Presentation AB member Presentation K Kursawi Break Presentation M Büsscher Lunch Presentation1 on requested details by guests Break Presentation2 on requested details by guests Second feedback by guests Dinner Evening Group sessions
Wednesday, June 25	9:00 9:15 11:00 11:30 13:00 14:00	9:15 11:00 11:30 13:00 14:00 15:00	Resume Day 2 & Targets Day 3 Group session working (con't) Break Feedback from AB and discussion Lunch Plan adjustments, assignment of activities, wrap-up & conclusion

Contact information and useful links

If you require further information, please don't hesitate to contact **Bernard** or **Sachar**:

Bernard van Veelen email: bernard.vanveelen@d-cis.nl

phone: +31 6 5248 4530

Sachar Paulus email: paulus@fh-brandenburg.de

phone: +49 151 560 544 00

(Please use phone for very urgent inquiries only)

The OPTET Workshop/Schloss Dagstuhl address:

Dagstuhl - Leibnitz centre for Informatics

Address: Octavieallee,
66687 Wadern,
Germany

Contact: phone: +49-6871-9050,
fax: +49-6871-90133

Useful links and information

OPTET website <http://www.optet.eu/>

Schloss Dagstuhl <http://www.dagstuhl.de/en/>

Travel information

Plane: <http://www.dagstuhl.de/en/about-dagstuhl/arrival/flug/>

Train: <http://www.dagstuhl.de/en/about-dagstuhl/arrival/bahn/>

Taxi: <http://www.dagstuhl.de/en/about-dagstuhl/arrival/taxi-martin/>

Car: <http://www.dagstuhl.de/en/about-dagstuhl/arrival/auto/>