D11.16

Contextual and situational description and benchmark of events (1)

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1. Executive Summary

These deliverables summarize the activities at LIGHTest dissemination events, to highlight the dissemination successes and activities of the project, for both evaluation purposes and information of partners that do not take part in the event.

2. Document Information

2.1 Contributors

Name	Partner
Jon Shamah	EEMA
All Partners	-

2.2 History

Version	Date	Author	Changes
0.1	10/10/2016	JS/LS	Initial Document
0.9	18/08/2017	JS	Final contributions
1.0	21/08/2017	JS	Review
1.01	25/08/2017	JS	Release
1.02	29/08/2017	JS	Integrated late input

3. Table of Contents

1. Executive Summary 2

2. Document Information 3
2.1 Contributors 3
2.2 History 3

3. Table of Contents 4

4. Project Description 5

5. Generic Pamphlet 7

6. Bulletins 8
6.1 September 2016 8
6.2 February 2017 10
6.3 May 2017 13
6.4 August 2017 17
6.5 LIGHTest-Community Website 20

7. External Events in YR 1 23

8. Example Conference Reports 25
8.1 eIDAS Trust Services: 6 months on after the switch-over 25
8.2 Trust Framework Workshop 25
8.3 K(NO)W Conference in Washington 25

9. Partner Reports 27
9.1 FHG 27
9.2 EEMA 27
9.3 USTUTT 28
9.4 OIX 28
9.5 ATOS 28
9.6 NLnetLabs 29
9.7 G+D 29
9.8 TUG 30
9.9 Correos 30
9.10 Time.lex 30
9.11 DTU 31

4. Project Description

LIGHTest project to build a global trust infrastructure that enables electronic transactions in a wide variety of applications

An ever-increasing number of transactions are conducted virtually over the Internet. How can you be sure that the person making the transaction is who they say they are? The EU-funded project LIGHTest addresses this issue by creating a global trust infrastructure. It will provide a solution that allows one to distinguish legitimate identities from frauds. This is key in being able to bring an efficiency of electronic transactions to a wide application field ranging from simple verification of electronic signatures, over eProcurement, eJustice, eHealth, and law enforcement, up to the verification of trust in sensors and devices in the Internet of Things.

Traditionally, we often knew our business partners personally, which meant that impersonation and fraud were uncommon. Whether regarding the single European market place or on a Global scale, there is an increasing amount of electronic transactions that are becoming a part of people's everyday lives, where decisions on establishing who is on the other end of the transaction is important. Clearly, it is necessary to have assistance from authorities to certify trustworthy electronic identities. This has already been done. For example, the EC and Member States have legally binding electronic signatures. But how can we query such authorities in a secure manner? With the current lack of a worldwide standard for publishing and querying trust information, this would be a prohibitively complex leading to verifiers having to deal with a high number of formats and protocols.

The EU-funded LIGHTest project attempts to solve this problem by building a global trust infrastructure where arbitrary authorities can publish their trust information. Setting up a global infrastructure is an ambitious objective; however, given the already existing infrastructure, organization, governance and security standards of the Internet Domain Name System, it is with confidence that this is possible. The EC and Member States can use this to publish lists of qualified trust services, as business registrars and authorities can in health, law enforcement and justice. In the private sector, this can be used to establish trust in inter-banking, international trade, shipping, business reputation and credit rating. Companies, administrations, and citizens can then use LIGHTest open source software to easily query this trust information to verify trust in simple signed documents or multi-faceted complex transactions.

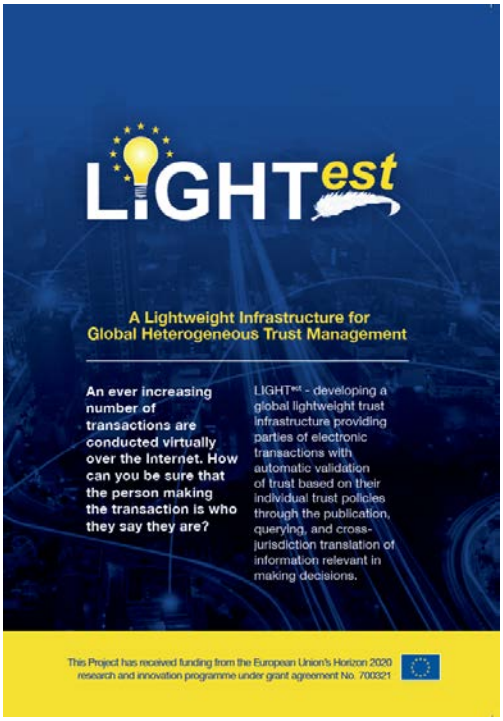
The three-year LIGHTest project starts on September 1st and has an estimated cost of almost 9 Million Euros. It is partially funded by the European Union's Horizon 2020 research and innovation programme under G.A. No. 700321. The LIGHTest consortium consists of 14 partners from 9 European countries and is coordinated by Fraunhofer-Gesellschaft. To reach out beyond Europe, LIGHTest attempts to build up a global community based on international standards and open source software.

The partners are ATOS (ES), Time Lex (BE), Technische Universität Graz (AT), EEMA (BE), G&D (DE), Danmarks tekniske Universitet (DK), TUBITAK (TR), Universität Stuttgart (DE), Open

Identity Exchange (GB), NLNet Labs (NL), CORREOS (ES), IBM Denmark (DK) and UbiSecure (FI). The Fraunhofer IAO provides the vision and architecture for the project and is responsible for both, its management and the technical coordination.

The Fraunhofer IAO provides the vision and architecture for the project and is responsible for both, its management and the technical coordination.

5. Generic Pamphlet



LIGHTest Project

The project will provide a solution that makes it possible to distinguish legitimate identities from frauds. This is key in being able to bring an efficiency of electronic transactions to a wide application field ranging from simple verification of electronic signatures, over eProcurement, eJustice, eHealth, and law enforcement, up to the verification of trust in sensors and devices in the Internet of Things.

To ease integration and improve availability on any system, LIGHTest makes use of the existing global Domain Name System (DNS) for publication, querying, and cross-jurisdiction translation of information relevant to make such decisions, including levels of assurance. Building on top of the existing global infrastructure of the Domain Name System and explicit efforts to reach international acceptance enable LIGHTest to offer truly "global trust lists".

Work In Progress

Creation of a Global Trust Infrastructure at Feasible Effort
LIGHTest addresses this possibly most difficult challenge through reuse of the existing Domain Name System (DNS). In particular, LIGHTest employs the global DNS system as-is. Only marginal additions render it usable as a global trust infrastructure. It does so by following well-established strategies of other kinds of trust management.

Global Acceptance of the Approach Beyond Europe
LIGHTest addresses this challenge by embedding its technical innovations into an inclusive and collaborative strategy that positions LIGHTest from the start as a global initiative, open to extra-European collaboration.

Support for Heterogeneous Trust Models, since Homogeneous Models Fail to Scale Globally
LIGHTest supports heterogeneous models of trust by moving the decision point for who is trusted to the verifier's trust policy. It typically selects and combines the few existing large scale trust schemes (such as that of EU qualified signature) and can further personalize them with local black and white – lists.

LIGHTest Project Partners

Coordinator:
FRAUNHOFER GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG EV Germany

Partners:
EUROPEAN ELECTRONIC MESSAGING ASSOCIATION AISBL Belgium
ATOS SPAIN SA Spain
TIME LEX CVBA Belgium
TECHNISCHE UNIVERSITAET GRAZ Austria
GIESECKE & DEVRIENT GESELLSCHAFT MIT BESCHRÄNKTER HAFTUNG Germany
DANMARKS TEKNISKE UNIVERSITET Denmark
TÜRKİYE BİLİMSEL ve TEKNOLOJİK ARAŞTIRMA KURUMU Turkey
UNIVERSITAET STUTTGART Germany
OPEN IDENTITY EXCHANGE EUROPE United Kingdom
STICHTING NLNET LABS Netherlands
SOCIEDAD ESTATAL CORREOS Y TELÉGRAFOS SA Spain
IBM DANMARK APS Denmark
UBISECURE Finland

LIGHTest Community Website has been created to allow interested parties to stay involved with the project as it develops and evolves.
The website covers all the latest news and events as well as a closed forum where partners can share ideas and best practice. To find out more, please visit our community website at www.lightest-community.org

You can also find us on Twitter and LinkedIn
@LIGHTest_trust
www.linkedin.com/groups/12017516

Programme Information
Project No: 700321
Start: September 2016
Duration: 3 years

Contact us: info@lightest.eu
Web: www.lightest.eu

04.2017

Automatic Handling of Subsidiarity Principle in Trust Schemes
LIGHTest addresses this challenge by using the native and massively proven DNS mechanism to delegate the management of sub-domains to third parties. The mechanism can support an arbitrary depth of the hierarchy and the LIGHTest client libraries render the hierarchical structure of trust schemes transparent to verifiers.

Access to Trust Schemes based on Human-Readable Names
LIGHTest addresses this challenge by using DNS domain names to identify trust schemes. For example, the European trust scheme of qualified signatures may be named "qualified.TRUST.ec.eu". Here, qualified is the scheme name, ec.eu the authority responsible for the scheme, and TRUST a standardized constant word used across the trust infrastructure. Using the existing DNS, this name can then be used by software to locate and access the data that is contained in the named trust scheme.

Use of a Single Trust Root to Replace a Multitude of trust Anchors
LIGHTest addresses this challenge by applying the existing, unique, and globally accepted Trust root of the DNS. The standard mechanism of the DNS (with DNSSEC extension) allows to derive Trust in Trust scheme data from this single Trust root and the (domain) name of the Trust scheme.

Integration of Multiple Types of Trust Schemes in a Single Infrastructure
LIGHTest addresses this challenge by using a very generic model of trust scheme and supporting an open number of trust schemes to concurrently.

LIGHTest

6. Bulletins

A number of Bulletins, comprising project information, updates, and domain news were produced during the course of the first year.

6.1 September 2016

LIGHTest Newsletter Edition 1 September 2016

WP2 Summary
Title: Concepts and Evaluation
Lead Partner: DTU, Denmark
Contact: Sebastian Moedersheim

The following tasks have started:
T2.1 Inventories: Collecting the Requirements Analysis in April. Deliverable D2.1: partners sending in their contributions until end of the month, consolidating in first week of November; on time.
T2.4 We will ask the consortium for feedback on our initial ideas.
Other tasks: further telcos to be

T2.3 (Formal Descriptions and Analysis of Concepts) can provide as input. A telco of the leaders of T2.3, T3.1, and T4.1 is foreseen to coordinate activities. These preliminary discussions prepare the formal task kick-

The task is in its initial phase of structuring the wiki and deliverables, as the designs for suitable translation algorithms and formats for expressing "trust translation lists" depend on the inventories of T2.1 that are currently being compiled (to be delivered in month 3).

LIGHTest Newsletter Edition 1 September 2016

LIGHTest Newsletter Edition 1 September 2016

This Project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 700321

LIGHTEST PROJECT OVERVIEW

An ever increasing number of transactions are conducted virtually over the Internet. How can you be sure that the person making the transaction is who they say they are? The EU-funded project LIGHTest addresses this issue by creating a global trust infrastructure. It will provide a solution that allows one to distinguish legitimate identities from frauds. This is key in being able to bring an efficiency of electronic transactions to a wide application field ranging from simple verification of electronic signatures, over eProcurement, eJustice, eHealth, and law enforcement, up to the verification of trust in sensors and devices in the Internet of Things.

LIGHTest develops a lightweight trust infrastructure providing parties of electronic transactions with automatic validation of trust based on their individual trust policies.

To ease integration and improve availability on any system, LIGHTest makes use of the existing global Domain Name System (DNS) for publication, querying, and cross-jurisdiction translation of information relevant to make such decisions, including levels of assurance. Building on top of the existing global infrastructure of the domain name system and explicit efforts to reach international acceptance enable LIGHTest to offer truly "global trust lists".

PROJECT KICK-OFF MEETING IN STUTTGART, GERMANY

During the three day Kick-Off Meeting partners from nine different European countries came together to discuss and spread the LIGHTest Vision.
Day One started with a welcoming speech by the departmental head of the Fraunhofer IAO Prof. Dr. Anette Weisbecker, followed by Dr. Bud P. Bruegger who spoke about the Fraunhofer IAO Institution and introduced the LIGHTest project, its vision, its aims and further steps to all participants of the LIGHTest consortium. The day closed with a management presentation.

Day 2 started with an overview of all Work Packages (WP). The responsibilities, dependencies and due dates were explained. The day continued with the discussion of WP2 "requirements, concepts and evaluation" by the University of Denmark. The "Infrastructure for the Publication and Querying of Trust Schemes" was explained in WP3 by Fraunhofer. ATOS followed with WP4 "Infrastructure for Translations across Trust Domains".

The Technical University of Graz has the WP lead of two WPs: WP5 "Infrastructure for the Publication and Querying of Delegations" and WP6 "Trust Policy and Automatic Trust Decisions". The discussion of WP7 "Trust Propagation of Derived Mobile IDs" was lead by G&D. The "Pilot Demonstration" was discussed after WP7. The General Assembly followed where the press release and the internal due dates of the deliverables was agreed upon.

The opening of the last day of the LIGHTest Kick-Off Meeting was again made by Fraunhofer. The Turkish partner from TUBITAK began with the first presentation of their WP8 "Integration and Testing" of the pilot. WP11 continued with "Dissemination and Communication". ATOS is the lead of WP4, and also the lead of WP10. The WP1 "Ethics Requirements" finished the main part of the Kick-Off Meeting and the presentations of all WPs. The last two points on the agenda were "Review of Dependencies" and the final "Wrap Up & How to get started". It was a good Kick-Off and a good start into the project.

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LIGHTest Newsletter Edition 1 September 2016

WP5 Summary

Title: **Infrastructure for the Publication and Querying of Delegations**

Lead Partner: **TU Graz, Austria**
Contact: **Peter Lipp**

Based on the partial inventory of existing delegation schemes and the set of requirements, we currently think about conceptual representation of delegations and their properties and suitable data

WP7 Summary

Title: **Trust Propagation of Derived mobile IDs**

Lead Partner: **G&D, Germany**
Contact: **Frank-Michael Kamm**

Slightly ahead of schedule, WP7 has already started with some preparations concerning the development of secure software-based environments on mobile devices and the creation of a crypto container for derived mobile

WP9

Title: **Pilot Demonstrations**

Lead Partner: **IBM - Denmark**
Contact: **Niels Pagh-Rasmussen**

Starting month 7.

WP10

Title: **Transfer to Market**

Lead Partner: **ATOS - Spain**
Contact: **Lorenzo Rosa**

strategy document which covers recommendations for marketing activities, a list of international forums all partners are speaking at and suggestions for successful utilisation of social media. We have also started to plan out the creation of an International Committee designed to feed back into the EEAB.

D11.1 Advisory Board Composition
D11.2 Advisory Board Procedures

LIGHTest Newsletter Edition 1 September 2016

LIGHTEST PROJECT PARTNERS
More details of the partners on the Project Wiki.

- Fraunhofer Gesellschaft Zur Forderung Der Angewandten Forschung EV (Germany)
- Atos Spain SA (Spain)
- Time Lex CYBA (Belgium)
- Technische Universitaet Graz (Austria)
- European Electronic Messaging Association AISB (Belgium)
- Giesecke & Devrient Gesellschaft Mit Beschrankter Haftung (Germany)
- Danmarks Tekniske Universitet (Denmark)
- Turkiye Bilimsel Ve Teknolojik Arastirma Kurumu (Turkey)
- Universitaet Stuttgart (Germany)
- Open Identity Exchange Europe (UK)
- Stichting Nlnet Labs (Netherlands)
- Sociedad Estatal Correos Y Telegrafos SA (Spain)
- IBM Danmark APS (Denmark)
- Gmo Globalsign OY (Finland)

PLANNED ACTIVITIES AND EVENTS

29 NOV 2016
Trust Tec - Cannes

7 DEC 2016
International Identity Management Law and Policy - The World Bank, Washington DC USA – OIX

26/27 APRIL 2017
Consult Hyperion Conference - UK

PROGRAM INFORMATION

Start of Project: September 2016
Duration: 3 years
Contact us: info@lightest.eu
Web: www.lightest.eu
Twitter: vv
LinkedIn: click here

NEXT ISSUE

If you have a story regarding the project that you consider to be newsworthy to the wider media, or are approached by a journalist requesting information concerning LIGHTest please notify Lorraine Spector [EEMA] WP11 by emailing: lorraine.spector@eema.org.

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6.2 February 2017

LIGHTest Newsletter Edition 2 February 2017

ROLE OF THE LIGHTest ADVISORY BOARD

The purpose of the Advisory Board is to provide an external point of view and guidance on the project from a panel of international experts gathered from multiple stakeholder entities.

Andre Boysen is the Chief Identity Office, Securekey Technologies Inc, Canada and technical DNS Domain expert, as well as being an IETF opinion leader.

Esther Makaay is Services Architect, SIDN, Netherlands

Jorge Cuellar is a Research Scientist at Siemens AG, in Germany. He has been very active in IETF, as well as organising many EU-projects.

Slawomir Gorniak is a CISSP, Expert in Security Tools and Architecture at ENISA in Greece. He has

Timothy Reinger, Information Risk Governance (Digital Identity, CyberSecurity and Information Privacy) Law Counsel at FutureLaw LLC, USA.

Timothy is an internationally recognised expert on eSignature law

LIGHTest Newsletter Edition 2 February 2017

LIGHTest Newsletter Edition 2 February 2017

This Project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 700321

eIDAS Trust Services
SIX MONTHS ON

Six months after the new rules for trust services came into force under the eIDAS regulation, an eIDAS Trust Services Workshop was held in Brussels, on 19 December 2016, to present the state of play.

On 1st July 2016, Chapter III of Regulation (EU) 910/2014, which lays down the rules on Trust Services, i.e. electronic signatures, electronic seals, electronic time stamps, electronic registered delivery services and website authentication, was applied directly in all 28 Member States. This represents a big step forward in building a Digital Single Market and will result in important changes both for public administrations and the providers of these services.

From the 1999 Directive on electronic signatures, we now have a directly applicable legal text going beyond electronic signatures and including a set of trust services which are important for secure and

Andrea Servida
Head of the Unit "eGovernment & Trust" at DG CONNECT, European Commission

convenient electronic transactions across the EU.

This means new rules for public administrations but also for the providers of electronic trust services, which can be either qualified or non-qualified.

Trust service providers can decide whether to become qualified. If they do, there is an initiation process involving different actors, as a result of which qualified trust service providers and the qualified trust services provided by them are included in the Trusted Lists – which now have a constitutive effect (unlike before 1st July, when they were only an information tool).

The workshop was organised for Member States, Supervisory Bodies, Conformity Assessment Bodies, National Accreditation Bodies, Certification Bodies (under Art. 30 of eIDAS Regulation), Trust Service Providers, ENISA and Standardisation Bodies - ETSI (CEN) representatives. It focused on sharing experiences, best practices and success stories through presentations and real use cases, as well as sessions to discuss real challenges and address concrete questions related to the eIDAS requirements.

LIGHTest Team In Top 100 Identity Leaders

The One World Top 100 Leaders in Identity for 2017 has been revealed and LIGHTest members, Jon Shamah, the Chair of EEMA, and Don Thibeau, Executive Director OpenID Foundation and Chairman Open Identity Exchange, join a prestigious list of pioneers, innovators and pace setters, working to advance inclusion, improve products and services, keep personal data safe, and to ensure and protect individual privacy.

The full list of the One World Top 100 Leaders in Identity is available at: https://oneworldidentity.com/identity-leaders

Jon Shamah

@LIGHTest_trust LinkedIn -click here www.lightest.eu

Produced by EEMA - WP11 Lead, LIGHTest

LIGHTest Newsletter Edition 2 February 2017

WP2 Summary

Title: **Requirements, Concepts and Evaluation**

Lead Partner: **DTU, Denmark**
Contact: **Sebastian Moedersheim**

The following tasks are mainly active: T2.1 Inventories: Collecting the existing relevant concepts, solutions, formats, description languages for trust management. We have submitted the first deliverable D2.1 on time, and are currently working on the revised version D2.2.

T2.2 Requirements Analysis: Describing the goals that the final system has to fulfil; we have started a wiki and currently have focussed first on the requirements that are most relevant for the architecture (i.e. T2.4).

T2.3 Formal Description: the formal refining for the deliverable that is due soon.

D2.2 (Second version of inventories) due in February -- on time.

D2.3 (Requirements analysis) due in April -- on time.

D2.14 (Architecture) due in February -- on time.

WP3 Summary

Title: **Infrastructure for the Publication and Querying of Trust Schemes**

Lead Partner: **FHG, Germany**
Contact: **Dr. Heiko Roßnagel**

WP3 is currently designing a conceptual framework for trust schemes.

A first version of D3.1 will be available in month 8.

T4.1: Design of a Conceptual Framework for Trust Scheme Translation is currently ongoing.

The task is in its initial phase, as it depends on the requirements of T2.2 and architecture of T2.4 that are currently being compiled.

D4.1: T4.1-D1: Conceptual Framework for Trust Scheme Translation (1) is the first deliverable to be produced, to be delivered on month 8.

All is on schedule as far as kick starting and structuring the Atos-led tasks is concerned, focus is now on monitoring and contributing to the progress of the antecedent tasks T2.2 and T2.4.

The Kickoff meeting press release has been disseminated through Atos' channels (http://es.atos.net/es-es/

information about LIGHTest has been included in the Atos Research and Innovation Booklet (http://booklet.atosresearch.eu/ content/identity-privacy).

Alberto Crespo attended the CSA-EMEA Congress 2016 (http://csacongress.org/event/ emea-congress-2016/) on 15-16 November 2016 in Paris, and engaged in dissemination activities of several Atos' projects, including LIGHTest, during the networking sessions.

WP5 Summary

Title: **Infrastructure for the Publication and Querying of Delegations**

Lead Partner: **TU Graz, Austria**
Contact: **Peter Lipp**

LIGHTest Newsletter Edition 2 February 2017

WP6 Summary

Title: **Trust Policy and Automatic Trust Decisions**

Lead Partner: **TU Graz, Austria**
Contact: **Peter Lipp**

Based on the inventory and the set of requirements, we are working on abstract and generalized concepts of electronic transactions as well as policies that describe their trustworthiness.

On track

WP7 Summary

Title: **Trust Propagation of Derived mobile IDs**

Lead Partner: **G&D, Germany**
Contact: **Frank-Michael Kamm**

WP 7 is currently working on the general requirements for derived mobile IDs that should allow establishing a continuous trust propagation chain along the identity lifecycle. The results will be published as deliverable D7.1. In addition, some partners of WP 7 have started work on establishing secure software environments on mobile phones, an important prerequisite for securely storing identity credentials.

Upcoming: deliverable D 7.1 (due end of February)

Meetings:15.12.2016 Kick-off phone conference

16.01.2017 WP alignment phone conference

The work on D7.1 is currently on track (due date: end of February). Development work on secure software environments is slightly ahead of schedule.

WP8

Title: **Integration and Testing**

Lead Partner: **Tubitak, Turkey**
Contact: **Muhammet Yildiz**

Our WP starts on month 7 – March 2017.

We will be running a kick-off meeting in February.

WP10

Title: **Transfer to Market**

Lead Partner: **ATOS, Spain**
Contact: **Lorenzo Rosa**

Starting month 19.

WP11 Summary

Title: **Dissemination and Communication**

Lead Partner: **EEMA, Belgium**
Contact: **Jon Shamah**

A strong Advisory Board has been assembled to add their vast experience to our activity and is awaiting formal ratification.

T11.2 Dissemination. The quarterly Bulletins are being created and published.

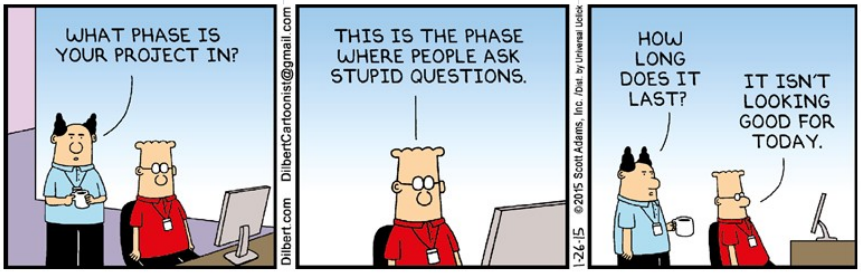
T11.3 Communication Strategy. This is being created by OIX and EEMA and is a live document.

T11.4 Collateral. Standard collateral has been created and specialised communications materials will be created as needed. The Community website is under construction.

T11.5 Communications Actions. There have been few reported activities over this period.

D11.5 Bulletin--A report on dissemination, exploitation and list of technical outcomes.

All is as expected and on schedule.



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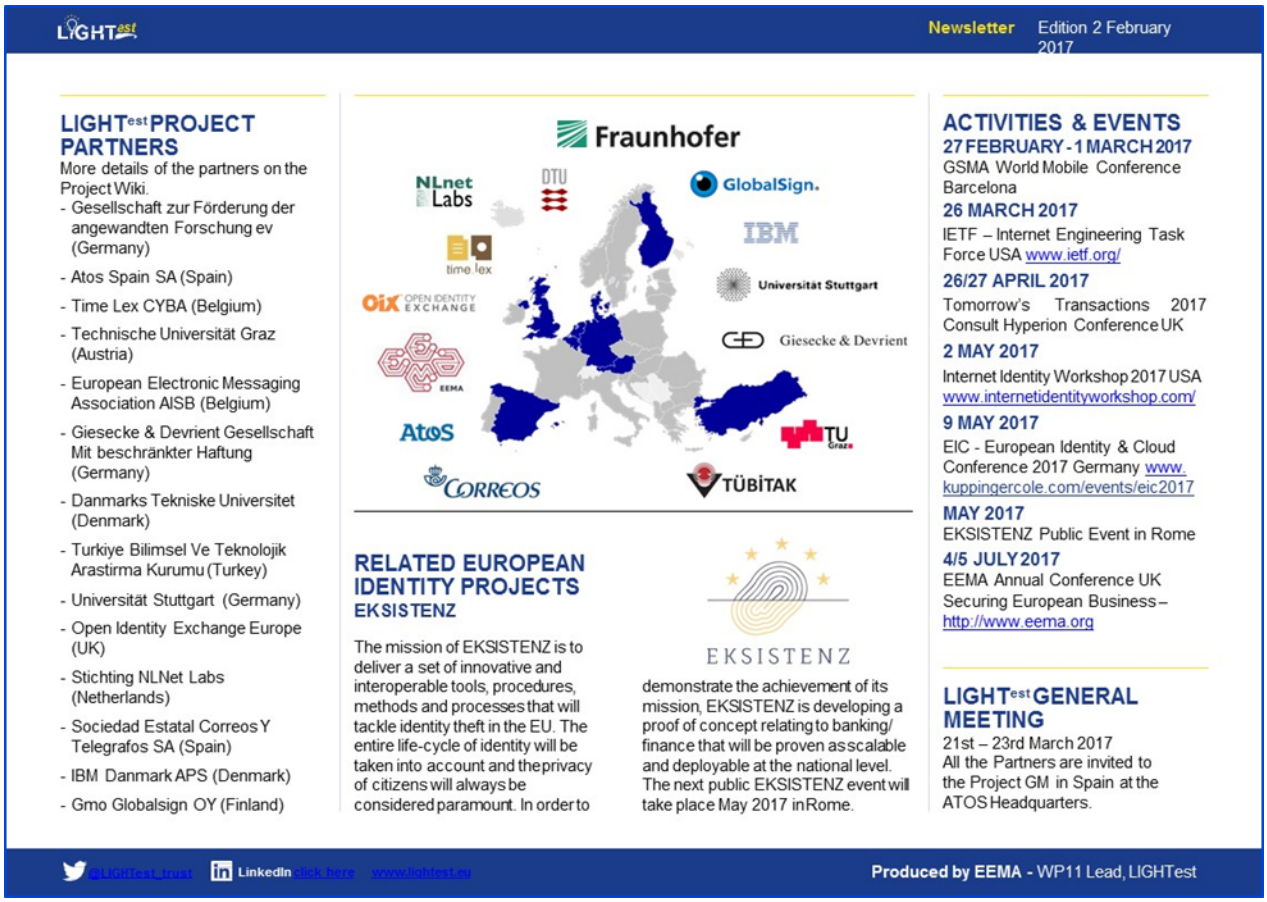

LIGHTest Newsletter Edition 2 February 2017

LIGHTest PROJECT PARTNERS

More details of the partners on the Project Wiki.

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- Atos Spain SA (Spain)
- Time Lex CYBA (Belgium)
- Technische Universität Graz (Austria)
- European Electronic Messaging Association AISB (Belgium)
- Giesecke & Devrient Gesellschaft Mit beschränkter Haftung (Germany)
- Danmarks Tekniske Universitet (Denmark)
- Turkiye Bilimsel Ve Teknolojik Arastirma Kurumu (Turkey)
- Universität Stuttgart (Germany)
- Open Identity Exchange Europe (UK)
- Stichting NLNet Labs (Netherlands)
- Sociedad Estatal Correos Y Telegrafos SA (Spain)
- IBM Danmark APS (Denmark)
- Gmo Globalsign OY (Finland)

Fraunhofer, DTU, NLnet Labs, GlobalSign, IBM, time.lex, Universität Stuttgart, OIX Open Identity Exchange, Giesecke & Devrient, EEMA, Atos, TU Graz, Correos, TÜBİTAK

RELATED EUROPEAN IDENTITY PROJECTS

EKSISTENZ

The mission of EKSISTENZ is to deliver a set of innovative and interoperable tools, procedures, methods and processes that will tackle identity theft in the EU. The entire life-cycle of identity will be taken into account and the privacy of citizens will always be considered paramount. In order to demonstrate the achievement of its mission, EKSISTENZ is developing a proof of concept relating to banking/ finance that will be proven as scalable and deployable at the national level. The next public EKSISTENZ event will take place May 2017 in Rome.

EKSISTENZ

ACTIVITIES & EVENTS

27 FEBRUARY - 1 MARCH 2017
GSMA World Mobile Conference Barcelona

26 MARCH 2017
IETF – Internet Engineering Task Force USA www.ietf.org/

26/27 APRIL 2017
Tomorrow's Transactions 2017 Consult Hyperion Conference UK

2 MAY 2017
Internet Identity Workshop 2017 USA www.internetidentityworkshop.com/

9 MAY 2017
EIC - European Identity & Cloud Conference 2017 Germany www.kuppingercole.com/events/eic2017

MAY 2017
EKSISTENZ Public Event in Rome

4/5 JULY 2017
EEMA Annual Conference UK Securing European Business – http://www.eema.org

LIGHTest GENERAL MEETING

21st – 23rd March 2017
All the Partners are invited to the Project GM in Spain at the ATOS Headquarters.

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Produced by EEMA - WP11 Lead, LIGHTest

6.3 May 2017

LIGHTest Newsletter Edition 3 May 2017

Interview with Alberto Crespo of ATOS, Spain

HEAD OF IDENTITY & PRIVACY LAB ATOS AND THE LEADER OF WP4 AND WP10

Alberto Crespo recently gave an interview to the business magazine Banca15 with the title "Cross-border authentication will favor the purchase of more products", where he highlighted the progress in the digital transformation of banks who carry out t

A key cor should be themselves any bank i

Today the financial s it is esti 3% of t purchased in a coun own, and domestic banks, bu electronic for these reality in th with the s Commissio

Alberto Crespo
Research and Innovation Head of Identity and Privacy Lab at ATOS

This will give greater legal assurance to banks, because within these trust services and authentication mechanisms there are clear rules defined in terms of liability of banks if there were any cybersecurity issues.

68% of citizens felt very concerned about identity fraud in 2015 and this is of concern to the Commission, because it affects e-commerce and the offer of online services, and therefore encourages the

'Trust Framework' Workshop

AMSTERDAM ON 9TH MARCH 2017

OIX OPEN IDENTITY EXCHANGE

The Open Identity Exchange (OIX) was delighted that Microsoft could host a 'Trust Framework' workshop in Amsterdam on 9th March 2017 that introduced the LIGHTest

@LIGHT

LIGHTest Newsletter Edition 3 May 2017

This Project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 700321

LIGHTest Report of General Meeting

21-23 MARCH 2017 - MADRID

The second general meeting was held in the headquarters of Atos in the beautiful capital of Spain, Madrid. The first day of the General Meeting started at 13.00 on Tuesday, the 21st of March. The consortium was welcomed by Alberto Crespo, Head of Identity & Privacy Laboratory at Atos Research & Innovation.

The day continued with the management presentations of each work package, so all members of the LIGHTest consortium got an overview about the actual state of the current work packages. The first social event, after the first meeting day, was located at the tapas bar "Los Arrieros" in the center of Madrid. It was a good end to the day for the participants of the Second General Meeting.

Day two was dedicated to plenary discussion and parallel workshops and started with content for the plenary work of task 2.2 – Requirements Analysis and Additional Use Cases. After the lunch break the group split into parallel workshop sessions for task 2.3 – Formal Description and Analysis of Concepts, and task 2.5 – DNSSEC Expertise and Building.

LIGHTest Group March 2017

After the coffee break the parallel workshops took place for task 2.7 – Legal, Ethical and Societal Requirements and Constraints and, perhaps one of the most important workshop, a combination of task 3.1 – Design of Conceptual Framework for Trust Schemes, task 4.1 – Design of Conceptual Framework for Trust Schemes Translation and task 5.1 – Design of a Conceptual Framework for Delegations.

The final parallel workshops of the second General Meeting were task 6.5 – Ensuring Cross-Border Legal Compliance and Validity of Trust Policy and Trust Decisions, led by Timelex and task 7.2 – Device System Architecture and Definition of Derivation Schemes, let by G&D.

The second day of the General Meeting ended with the official part of the General Assembly. This very productive and interesting day was finished with a great social dinner event at the Real Madrid Stadium, a fantastic experience for the participants.

The third and final day started with a presentation about the pilot, led by Correos, and ended with the wrap up and future dates.

All in all, this was a successful, interesting and productive Second General Meeting in Madrid. The consortium was able to discuss and debate all necessary topics. Most importantly, this meeting refreshed and motivated the participants ensuring enthusiasm for the ongoing project work.

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LIGHTest Newsletter Edition 3 May 2017

and Don Thibeau from OIX introduced the theory behind trust frameworks as well as describing some of the common elements that help form them. It was then passed over to a panel who discussed whether trust frameworks are relevant and can deal with current issues through existing terms of service agreements. The panel looked at whether regulation would burden business cases and also if we wanted to truly 'open up' digital identities for usage across domains, organisations and nations.

The afternoon session was devoted entirely to the LIGHTest project. Heiko Rossnagel covered the LIGHTest project goals and objectives and generated a lot of debate an

Rachelle University presentati path to cr use cases of the proj Hans Gra on ensur compliand delegation from OIX communit

This covered how you can get involved with our community via our website and forums and the next stages for further engaging the international community.

We were delighted to have such a high level of debate and audience interaction and hope we can continue fuelling this through our community website and outreach programs.

You can visit the community website www.LIGHTest-community.org to register for the forum and continue the discussions.

Profile of EEMA

independent, not for profit, European Think Tank focussing on identification, authentication, privacy, risk management, cyber security, the Internet of Things and mobile applications.

EEMA has a wealth of experience throughout Europe and an established and growing membership network, with organisations including Cryptomathic, digi.me and TrustSeed SAS recently joining and long established members, such as Microsoft, PricewaterhouseCoopers, Consult Hyperion, Nexus Technology, Thales e-Security and Strong Horse BV.

As an established and successful EU Project Partner it contributes

EEMA is also the founder of the European Trust Foundation, a strong Europe-wide independent and active body of experts, promoting Digital Trust and contributing to European Projects with a unified voice.

An extensive programme of events includes the annual Information Security Solutions Europe (ISSE) and its upcoming Privacy vs Identity conference in London on 4th and 5th July. These events provide the ideal forum to network with digital enterprise experts and high level EC and other government experts. Meanwhile, its regular series of high level fireside briefings, which take place in Brussels and London, provide the ideal forum for industry leaders to tackle controversial hot

LIGHTest Newsletter Edition 3 May 2017

WP2 Summary

Title: **Requirements, Concepts and Evaluation**

Lead Partner: **DTU, Denmark**
Contact: **Sebastian Moedersheim**

T2.1 Inventories: Collecting the existing relevant concepts, solutions, formats, description languages for trust management. This task is largely finished and all deliverables (D2.1 and D2.2) have been submitted.

T2.2 Requirements Analysis: describing the goals that the final system has to fulfil, we have used a requirements wiki as a discussion platform and grouped the requirements by high level principles to structure. This deliverable has been submitted in month 8 of the project duration.

T2.4 Architecture: the structure of the system and its integration. For the main part, the architecture is now finished and the main deliverable D2.14 submitted. However, this is an ongoing work package that involves the coordination and umbrella to the whole project.

The following tasks are mainly active:

T2.3 Formal Description: the formal basis of the project; we are starting on the design of the languages for trust schemes, translation schemes and policies which also will be the basis of the automated trust verifier (WP6). Also we have seen in WP3 and WP4 how to practically use the language for formulating trust policies and trust translation schemes.

T2.5 is a task of making precise how DNSSec can be used in the project and this has recently been started.

T2.9 is a task on legal requirements and social impact which also has just started.

The deliverables D2.4 (T2.3), D2.7 (T2.5), and D2.9/D2.10 (T2.9) are well on the way for submission in August.

WP3 Summary

Title: **Infrastructure for the Publication and Querying of Trust Schemes**

Lead Partner: **FHG, Germany**
Contact: **Dr. Heiko Roßnagel**

Active tasks:

T3.1: Design of a Conceptual Framework for Trust Schemes

T3.5: Ensuring Cross-Border Legal Compliance and Validity of Trust Scheme Publication

T3.1: A preliminary Conceptual Framework for Trust Schemes was designed which includes a data model for a unified representation of Tuple-Based Trust Schemes along with a Concept of the Trust Scheme Publication Authority (TSPA). The TSPA hereby consists of the DNS Name Server with DNSSEC Extension, and Trust Scheme Providers. A strong coordination between WP3, WP4, and WP5 is required for the design of the conceptual frameworks. A joint workshop was conducted during General Meeting in Madrid.

T3.5: The two partners involved in this task have agreed on the general structure and contents of D3.6, consisting on the one hand of an analysis of the built-in governance mechanisms and assurances of DNS delivery, and on the other the tools that LIGHTest will append to this to make DNS suitable for our use cases; the latter will comprise infrastructural measures (such as privacy by design and security), user facing measures (such as terms and conditions and privacy policies), and any internal measures to be implemented between participants in a use case.

D3.6 will be the next deliverable to be submitted in month 12 of the project duration.

WP4 Summary

Title: **Infrastructure for Translations across Trust Domains**

Lead Partner: **ATOS, Spain**
Contact: **Alberto Crespo**

D4.1, Drawing from the requirements of T2.2 and architecture of T2.4 that have been collected in deliverables D2.2 and D2.14, respectively.

All tasks from WP10 are currently running on schedule, a dedicated workshop on Business Planning and Exploitation has been presented by Ignacio Robla during the last General Meeting in Madrid and input has been collected from partners.

All is on schedule with the Atos-led tasks; focus is now on leading tasks T4.1, T10.1, and T10.2 and collaborating with the other task leaders where Atos is involved.

Moreover an article on Atos' involvement in LIGHTest was published on 30 January 2017 by Spanish business magazine "Computing", serving the computing and IT industry: http://www.computing.es/movilidad/noticias/1095363046501/atos-participa-en-el-proyecto-europeo-LIGHTest.1.html (in Spanish language).

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LIGHTest Newsletter Edition 3 May 2017

WP2 Summary

Title: **Requirements, Concepts and Evaluation**

Lead Partner: **DTU, Denmark**
Contact: **Sebastian Moedersheim**

T2.1 Inventories: Collecting the existing relevant concepts, solutions, formats, description languages for trust management. This task is largely finished and all deliverables (D2.1 and D2.2) have been submitted.

T2.2 Requirements Analysis: describing the goals that the final system has to fulfil, we have used a requirements wiki as a discussion platform and grouped the requirem... to stru... been s... project...

T2.4 A... the sys... the mai... finished... D2.14 s... ongoing... the coo... whole p...

The fo... active:...

T2.3 Fo... basis o...

on the design of the languages for trust schemes, translation schemes and policies which also will be the basis of the automated trust verifier (WP6). Also we have seen in WP3 and WP4 how to practically use the language for formulating trust policies and trust translation schemes.

T2.5 is a task of making precise how DNSSec can be used in the project and this has recently been started.

T2.9 is a task on legal requirements and social impact which also has just started.

The deliverables D2.4 (T2.3), D2.7 (T2.5), and D2.9/D2.10 (T2.9) are well on the way for submission in ...

Framework for Trust Schemes was designed which includes a data model for a unified representation of Tuple-Based Trust Schemes along with a Concept of the Trust Scheme Publication Authority (TSPA). The TSPA hereby consists of the DNS Name Server with DNSSEC Extension, and Trust Scheme Providers. A strong coordination between WP3, WP4, and WP5 is required for the design of the conceptual frameworks. A joint workshop was conducted during General Meeting in Madrid.

T3.5: The two partners involved in this task have agreed on the general structure and contents of D3.6, ...

WP4 Summary

Title: **Infrastructure for Translations across Trust Domains**

Lead Partner: **ATOS, Spain**
Contact: **Alberto Crespo**

D4.1, Drawing from the requirements of T2.2 and architecture of T2.4 that have been collected in deliverables D2.2 and D2.14, respectively.

All tasks from WP10 are currently running on schedule, a dedicated workshop on Business Planning and Exploitation has been presented by Ignacio Robla during the last General Meeting in Madrid and input has been collected from partners.

LIGHTest Newsletter Edition 3 May 2017

A radio interview of Atos' director Aljosa Pasic where LIGHTest is mentioned was broadcast online on 3 February 2017 by Gestiona Radio in the program "Talenta Mundi, con Jesús García"; the podcast is available at http://www.ivoox.com/talenta-mundi-jesus-garcia-03-02-2017-13-00-audios-mp3_rf_16809805_1.html (in Spanish language).

WP5 Summary

Title: **Infrastructure for the Publication and Querying of Delegations**

Lead Partner: **TU Graz, Austria**
Contact: **Dr Peter Lipp**

The focus of our work in this WP is the design of a conceptual framework for delegations. In this conceptual framework we provide a solution on the question, how a delegation can be represented using DNS. Further, we look into the representation of delegation content.

D 5.1 – Design of a Conceptual Framework for Delegations has been submitted on time.

WP6 Summary

Title: **Trust Policy and Automatic Trust Decisions**

Lead Partner: **TU Graz, Austria**
Contact: **Dr Peter Lipp**

Based on the inventory and the set of requirements, we are working on abstract and generalized concepts of electronic transactions as well as policies that describe their trustworthiness.

D6.1.1 - Requirements and Design of a Conceptual Framework for Trust Policies

The Kick Off Telco was held in M8, since the deliverable is due in M15. Moreover the TU Graz is particpating so far on the following conferences in 2017:

- Open Identity Summit 2017, 5th
- 6th October 2017, Karlstad University, Sweden
- 4th annual EAB Research Projects Conference, 18th – 19th September 2017, Germany

WP7 Summary

Title: **Trust Propagation of Derived mobile IDs**

Lead Partner: **G&D, Germany**
Contact: **Dr Frank-Michael Kamm**

WP7 has successfully completed the first deliverable D7.1, defining the general requirements for trust propagation of derived mobile IDs. Based on this work task 7.2 was kicked-off during the Madrid general meeting and is now focussing on narrowing down the more generic requirements to concrete implementation options for a LIGHTest solution.

In addition, the work on software-based security environments for storing mobile ID credentials has progressed further.

Upcoming: deliverable D 7.2 (due month 10.)

The work on D7.2 and on secure software environments is currently on track.

WP8

Title: **Integration and Testing**

Lead Partner: **Tubitak, Turkey**
Contact: **Dr Muhammet Yildiz**

The WP8 starts on M7 and continues until the end of the project.

The first task to start is T8.1 which will be kicked off in early April 2017 has been kicked off. The aim of this task is to setup an integration and testing infrastructure to support development and testing throughout the overall LIGHTest architecture. We will set up and publish deployment repositories for the development groups to publish their artefacts and we will establish an integrated LIGHTest system to facilitate the development and testing activities.

All the tasks are on schedule

The masterplan of the WP was presented in the GA on March 2017 in Madrid.

WP10

Title: **Transfer to Market**

Lead Partner: **ATOS, Spain**
Contact: **Lorenzo Rosa**

The tasks from WP10 are currently running on schedule, and the first output expected is deliverable D10.1, the first iteration of the business plan, due at the end of August.

A dedicated workshop on Business Planning and Exploitation has been presented by Ignacio Robla during the last General Meeting in Madrid and input has been collected from partners pursuant to drafting the business plan.

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WP11 Summary

Title: **Dissemination and Communication**

Lead Partner: **EEMA, Belgium**
Contact: **Jon Shamah**

T11.1 Advisory Board. The advisory board is awaiting the formal NDA so that they can be invited to the GA in Graz.

T11.2 Dissemination. The quarterly Bulletins are being created and published.

T11.3 Communication Strategy. This is being created by OIX and EEMA and is a live document.

T11.4 has b comm create websit being

T11.5 There activiti

D11.5 dissen of tech

D11.6 dissen of tech

Although Q1 is traditionally quiet, there have been OIX meetings in Netherlands and UK where LIGHTest has been featured. OIX also presented LIGHTest at the IETF.

ATOS have publicised LIGHTest via TV interviews and papers.

May: K(NO)W Identity Conference, Washington, USA

May: European Identity & Cloud Conference 2017(EIC), Munich, Germany

June: ETSI Security Week, Sophia Antipolis, France

July: IETF #99, Prague, Czech Republic

LIGHTest Brochure

The new LIGHTest Brochure, explaining the project and listing the partners, is now available in printed form and also in a PDF by using the following link: Click Here

LIGHTest Newsletter Edition 3 May 2017

LIGHTest PROJECT PARTNERS

FRAUNHOFER GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG EV Germany

EUROPEAN ELECTRONIC MESSAGING ASSOCIATION AISBL Belgium

ATOS SPAIN SA Spain

TIME.LEX CVBA Belgium

TECHNISCHE UNIVERSITAET GRAZ Austria

GIESECKE & DEVRIENT GESELLSCHAFT MIT BESCHRÄNKTER HAFTUNG Germany

DANMARKS TEKNISKE UNIVERSITET Denmark

TÜRKİYE BİLİMSEL ve TEKNOLOJİK ARAŞTIRMA KURUMU Turkey

UNVERSITAET STUTTGART Germany

OPEN IDENTITY EXCHANGE EUROPE United Kingdom

STICHTING NLNET LABS Netherlands

SOCIEDAD ESTATAL CORREOS Y TELÉFGRAFOS SA Spain

IBM DANMARK APS Denmark

UBISECURE Finland

THE LIGHTest COMMUNITY WEBSITE

This Website has been created to allow interested parties to stay involved with the project as it develops and evolves.

The website covers all the latest news and events as well as a closed forum where partners can share ideas and best practice.

To find out more, please visit our community website at www.LIGHTest-community.org

You can also find us on **Twitter** @LIGHTest_trust

LinkedIn www.linkedin.com/groups/12017516

ACTIVITIES & EVENTS

12 – 16 JUNE 2017
EEMA at ETSI Security Week
Sophia Antiopolis, France

14 JUNE 2017
OIX Economic of Identity III
London, UK

4-5 JULY 2017
EEMA 30th Annual Conference
Paddington, UK

16-21 JULY 2017
IETF #99
Prague, Czech Republic

18-19 SEPTEMBER 2017
EAB Research Projects Conference
Germany

5-6 OCTOBER 2017
Open Identity Summit 2017
Karlstad University, Sweden

LIGHTest GENERAL MEETING

All partners are invited on 12-14 September in Graz, Austria

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6.4 August 2017

LIGHTest Newsletter
Edition 4
August 2017

This Project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 700321

LIGHTest and the principle of privacy by design: how technological innovation can make you safer

Online transactions are a part of everyday life, and most citizens engage in them without many second thoughts regarding their security and the impact on their privacy. And yet, we know that every transaction also comes with a cost. Every time we communicate online, there's a possibility of our behaviour being monitored and analysed. Furthermore, we know that there are security risks to be managed: we need to keep our usernames and passwords safe, to minimise the risk of our identities being stolen or abused.

But the onus is not solely on the end user. There's also increasingly an expectation that the technologies we use are designed with security and privacy in mind. The upcoming General Data Protection Regulation (GDPR), which will become Europe's keystone legislation on privacy and data protection as of May 2018, enshrines this expectation into law. It creates an explicit principle of privacy by design, meaning that appropriate technical and organisation measures have to be baked into data processing technologies from the outset. Privacy and security rules have to be inherently supported by technologies, thus making sure that the likelihood and impact of incidents are minimised.

LIGHTest, fundamentally, is all about privacy by design in trust management. Our approach is firstly to use the DNS and its integrated security features as a way to reliably and securely discover trustworthy information. But secondly, we also created guidelines on how the technology should be used without compromising privacy. This includes the requirement not to make personal data directly discoverable via the DNS when using LIGHTest. It's a simple good practice, but by making it explicit, LIGHTest not only supports innovation, but also ensures that our project outcomes don't come with a privacy price tag. In this way, LIGHTest facilitates compliance with the GDPR for the users of its technologies, and helps to make everyday transactions just a little safer.

Hans Graux, Founding Partner at LIGHTest project partner – time.lex

Project partner profile - time.lex

time.lex is a boutique law firm based in Brussels, specialising in information and technology law in the broadest sense, including privacy protection, data and information management, e-business, intellectual property and telecommunications.

The team is internationally recognised, being both a Legal 500 Top Tier firm in Information Technology, and a Chambers Europe Recommended Firm for TMT - Information Technology, Intellectual Property, Data Protection and Entertainment.

The time.lex team provides support from a pragmatic perspective as lawyers at the bar of Brussels, and from a policy perspective as advisors to various governments, public administrations and legislative bodies.

Furthermore, within EU research projects such as LIGHTest, time.lex provides the necessary legal support in identifying legal challenges and finding appropriate ways to manage them, both during the project and with long-term sustainability in mind.

For more information about about time.lex visit: http://timelex.eu

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...the world to present LIGHTest at conferences and events. In May, OIX and USTUTT presented LIGHTest in the context of identity frameworks and how these interoperate for seamless customer experiences, at the first K(NO)W Conference in Washington. This was followed by the second International Identity Management Law and Policy meeting co-hosted by the OIX and the World Bank. At this event, OIX presented LIGHTest in the context of trust frameworks and standards, with USTUTT introducing LIGHTest to this group of influential, global policy and legal decision makers from both the public and private sector.

...lex. This more intimate meeting had ample time, allowing for bi-directional curation of valuable feedback to and from the LIGHTest consortium partners as to global concerns and issues.

In June, OIX presented LIGHTest at the IDM Whitehall Media conference in London to an audience of 350 IAM specialists, as well as attending the renowned Cloud Identity Summit in Chicago, participating in a panel to discuss trust frameworks and their critical role in governing identity systems and allocating liability; around 1,400 delegates attended this event.

LIGHTest at the K(NO)W Conference in Washington

At the first International LIGHTestforum meeting
Hans Graux (time-lex, LIGHTest); Rachel Sellung (USTUTT, LIGHTest); Jon Shamah (EEMA, LIGHTest); Tom Smedinghoff (ABA,Counsel at Locke Lord LLP); Sue Dawes (OIX, LIGHTest)

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LIGHTest Newsletter Edition 4 August 2017

WP2 Summary

Title: **Requirements, Concepts and Evaluation**

Lead Partner: **DTU, Denmark**
Contact: **Sebastian Moedersheim**

Task 2.1 Inventories have been largely concluded, with the second version of the Inventories deliverable D2.2, and similarly T2.2 requirements analysis: describing the goals that the final system needs to fulfil. Task T2.4 architecture is basically finished: While it is still possible to make changes to the architecture, if necessary. Deliverable D2.14 marks the establishment of the foundation and reference for the project.

T2.3 Formal Description: the formal basis of the project, in particular, we define here the trust policy language TPL for specifying trust schemes, trust translation schemes, and delegation schemes. The first deliverable D2.3 was due in month 12 of the project.

T2.5 DNSSec summarises the most important standard the project works on, and finished in August 2017.

Deliverable 2.9 (Societal requirements), Del
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by t
ther

WP3 Summary

Title: **Infrastructure for the Publication and Querying of Trust Schemes**

Lead Partner: **FHG, Germany**
Contact: **Dr. Heiko Roßnagel**

Active tasks:

Task 3.1: Design of a Conceptual Framework for Trust Schemes.

Task 3.2 Design of DNS-based Publication of Trust Schemes.

Task 3.5: Ensuring Cross-Border Legal Compliance and Validity of Trust Scheme Publication.

D3.1 designing a preliminary Conceptual Framework for Trust Schemes was submitted on time in month 12 of the project. It includes a concept of the Trust Scheme Publication Authority (TSPA) and a data model for a unified representation of Tuple-Based Trust Schemes.

Task 3.2 Design of DNS-based Publication of Trust Schemes

This task is in its initial phase. D3.3 will kick-off in September 2017. Preliminary work on DNS and DNSSEC expertise has already been conducted.

built-in governance mechanisms and assurances of DNS delivery, and of the legal tools that LIGHTest uses to permit third parties to use the trust information which is discoverable via LIGHTest. The deliverable will close with a structure for contractual terms that can be used by parties that wish to make their trust policies discoverable within LIGHTest.

D3.1 was submitted on time in M8 and D3.6 was due in M12 and has been submitted on time.

WP4 Summary

Title: **Infrastructure for Translations across Trust Domains**

Lead Partner: **ATOS, Spain**
Contact: **Javier Presa**

Preparation for the T4.2: Design of DNS-based Publication of Trust Translation Schemes for the General meeting, as this is the main task of the design phase.

Supporting other WPs in relation to trust translation schemes.

A radio interview with the Head of Atos Research & Innovation Department, Alicia Garcia, took place on 24th May 2017 http://www.rtve.es/alacarta/audios/marca-espana/marca-espana-

WP5 Summary

Title: **Infrastructure for the Publication and Querying of Delegations**

Lead Partner: **TU Graz, Austria**
Contact: **Dr. Peter Lipp**

The focus of our work in this WP is the design of a conceptual framework for delegations. In this conceptual framework, we provide a solution to the question - How can a delegation be represented using DNS? Further, we look into the representation of delegation content and how we can use DNS to publish delegations.

The Kick Off Meeting in Task 5.2 took place in August 2017. Moreover a paper entitled with "Harmonizing Delegation Data Formats" was accpeted for the OID conference in October 2017.

WP6 Summary

Title: **Trust Policy and Automatic Trust Decisions**

Lead Partner: **TU Graz, Austria**
Contact: **Dr. Peter Lipp**

Based on the inventory and the set of requirements, we are working on abstract

LIGHTest Newsletter Edition 4 August 2017

of the trust policy tool, we have started to define the technical limitations.

The Task 6.1 - Requirements and Design of a Conceptual Framework for Trust policies is due by the end of November 2017 (M15). The task has been kicked-off in July 2017.

WP7 Summary

Title: **Trust Propagation of Derived mobile IDs**

Lead Partner: **G+D Mobile Security GmbH, Germany**
Contact: **Dr. Frank-Michael Kamm**

WP7 has successfully completed task 7.2 and submitted deliverable D7.2 on time. The deliverable outlines a concept of a strong link between FIDO credentials and an identity derived by a secondary ID issuer. Due to the special properties of scoped credentials in the user-centric and privacy friendly FIDO concept some technical hurdles had to be overcome. The proposed concept is a balance between usability (number of authentications required by the user) and ease of integration for the relying party and ID provider (number of protocols and interfaces). The technical aspects of implementation will need to be refined further during the implementation phase.

In addition, work on software-based security environments for storing mobile ID credentials is progressing further.

The next upcoming deliverable is D 7.3 regarding the demo implementation of the defined mobile ID scheme. Further details on this are expected to be discussed during the general meeting in Graz.

WP8 Summary

Title: **Integration and Testing**

Lead Partner: **TÜBITAK, Turkey**
Contact: **Dr. Muhammet Yildiz**

WP8 started in M7 with a kick-off teleconference with the relevant partners. We have initiated the work of setting up the technical infrastructure for the development and testing of the LIGHTest components. Our partner TUG has created a GitLab server for code hosting and continuous integration. Additionally, NLNet will provide the infrastructure for the DNS and TÜBİTAK will establish a Minder testbed instance for the testing of the LIGHTest components.

Our closest deliverable is D8.6 on M16 which will provide information about the LIGHTest testing architecture, based on the application of Minder into the architecture. We have also started our work. This is a part of T8.3 and has already started.

WP10 Summary

Title: **Transfer to Market**

Lead Partner: **ATOS, Spain**
Contact: **Alberto Miranda**

The business plan, D10.1 has been submitted on time in M12. Moreover we are in the preperation for Task 10.2, which will be discussed at the General Meeting in Graz.

Atos has been assisting the Standardisation Report D10.8, where G&D was in the lead of the D10.8 Standardisation Report

WP11 Summary

Title: **Dissemination and Communication**

Lead Partner: **EEMA, Belgium**
Contact: **Jon Shamah**

EEMA has been continuing to promote LIGHTest throughout the EU and beyond. The LIGHTest-Community website continues to be populated and mature. The WP has held workshops across Europe and the USA.

WP11 has also been working with WP10 to produce a robust sustainable business plan and WP11 messaging is geared in order to optimise that plan in parallel to growing overall awareness.

Presentations in M13-M15 include:

- ARIES project Conference on Identity Fraud (Italy)
- European Association for Biometrics (Germany)
- OID Summit (Sweden)
- World eID (France)
- ISSE 2017 (Belgium)

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To find out more, please visit our community website at www.LIGHTest-community.org

You can also find us on **Twitter** @LIGHTest_trust

LinkedIn www.linkedin.com/groups/12017516

ACTIVITIES & EVENTS

20 SEPTEMBER 2017
IDM Europe
Amsterdam, Netherlands

27 SEPTEMBER 2017
IAM
London, UK

7 OCTOBER 2017
OID
Karlstad, Sweden

9-11 OCTOBER 2017
Certified InfoSec Conference
Washington, USA

17 NOVEMBER 2017
OIX Economics of Identity III
London, UK

LIGHTest GENERAL MEETING

All partners are invited on 12-14 September in Graz, Austria

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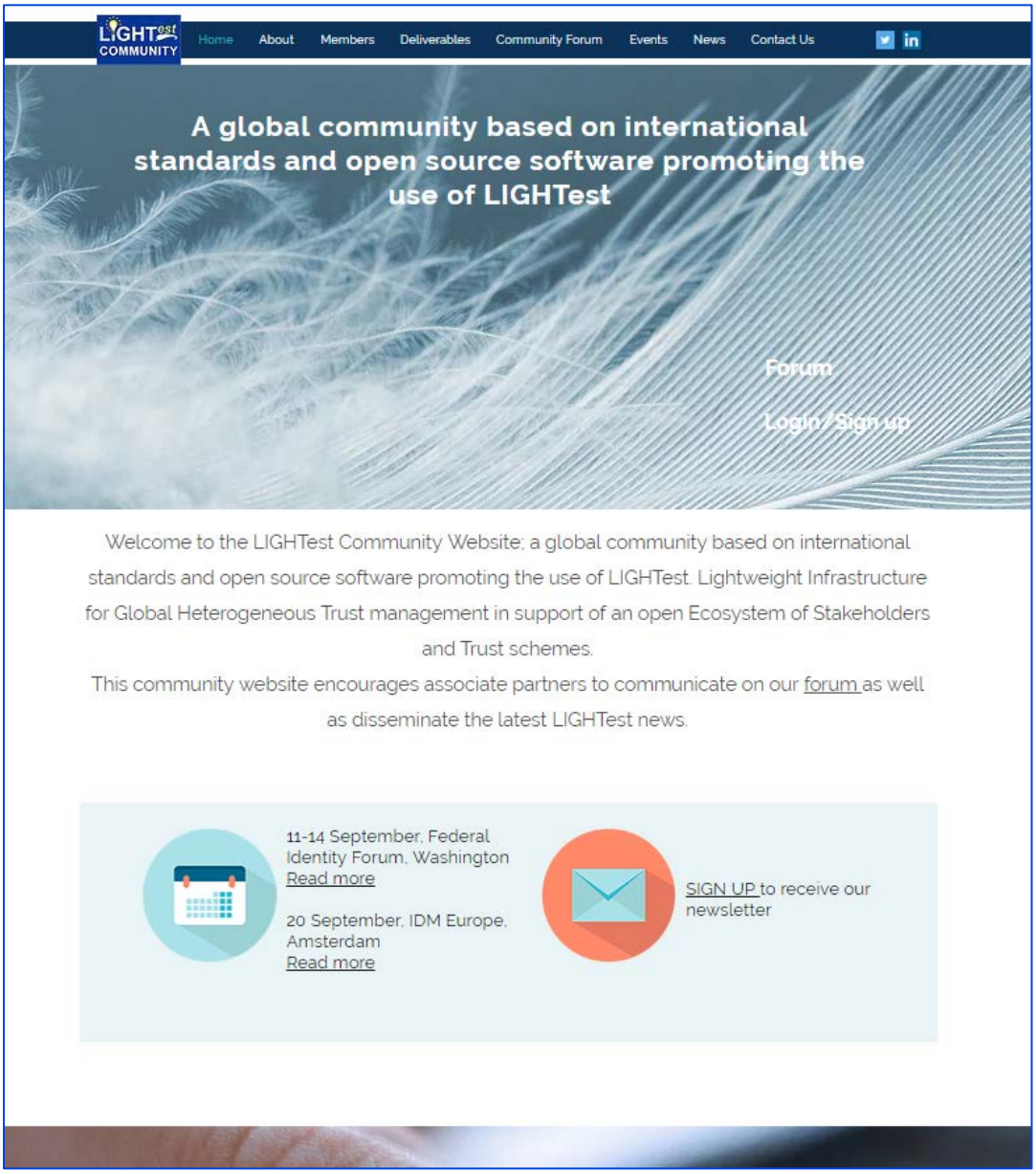
6.5 LIGHTest-Community Website

The Lightest Community Website is a specific globally focussed outbound activity showing the global nature of LIGHTest value rather than predominantly just EU. The separate website to the 'official LIGHTest.eu' enables greater flexibility and discussion. The LIGHTest-Community website can be found at: www.lightest-community.org .

Some example pages:



LIGHTest COMMUNITY
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Events
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Contact Us
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Downloads
About LIGHTest
The objective of the LIGHTest project is to create a global cross-domain trust infrastructure that renders it transparent and easy for verifiers to evaluate electronic transactions. By querying different trust authorities world-wide and combining trust aspects related to identity, business, reputation etc., it will become possible to conduct domain-specific trust decisions. These objectives will only be realised through the use of the existing domain name system.
The LIGHTest community website has been created to allow interested parties to stay involved with the project as it develops and share ideas and feedback through the closed forum. There are a number of levels of partners which we have identified in the members section of this site.
Interested in joining our community? Please get in touch with us to arrange access.
LIGHTest
A Lightweight Infrastructure for Global Heterogeneous Trust Management
Fraunhofer
GlobalSign
IBM
Atos
CORREOS
TÜBİTAK
Lightweight Infrastructure for Global Heterogeneous Trust management in support of an open Ecosystem of Stakeholders and Trust schemes
LIGHTest
Data Protection | Publishing Notes Image Sources
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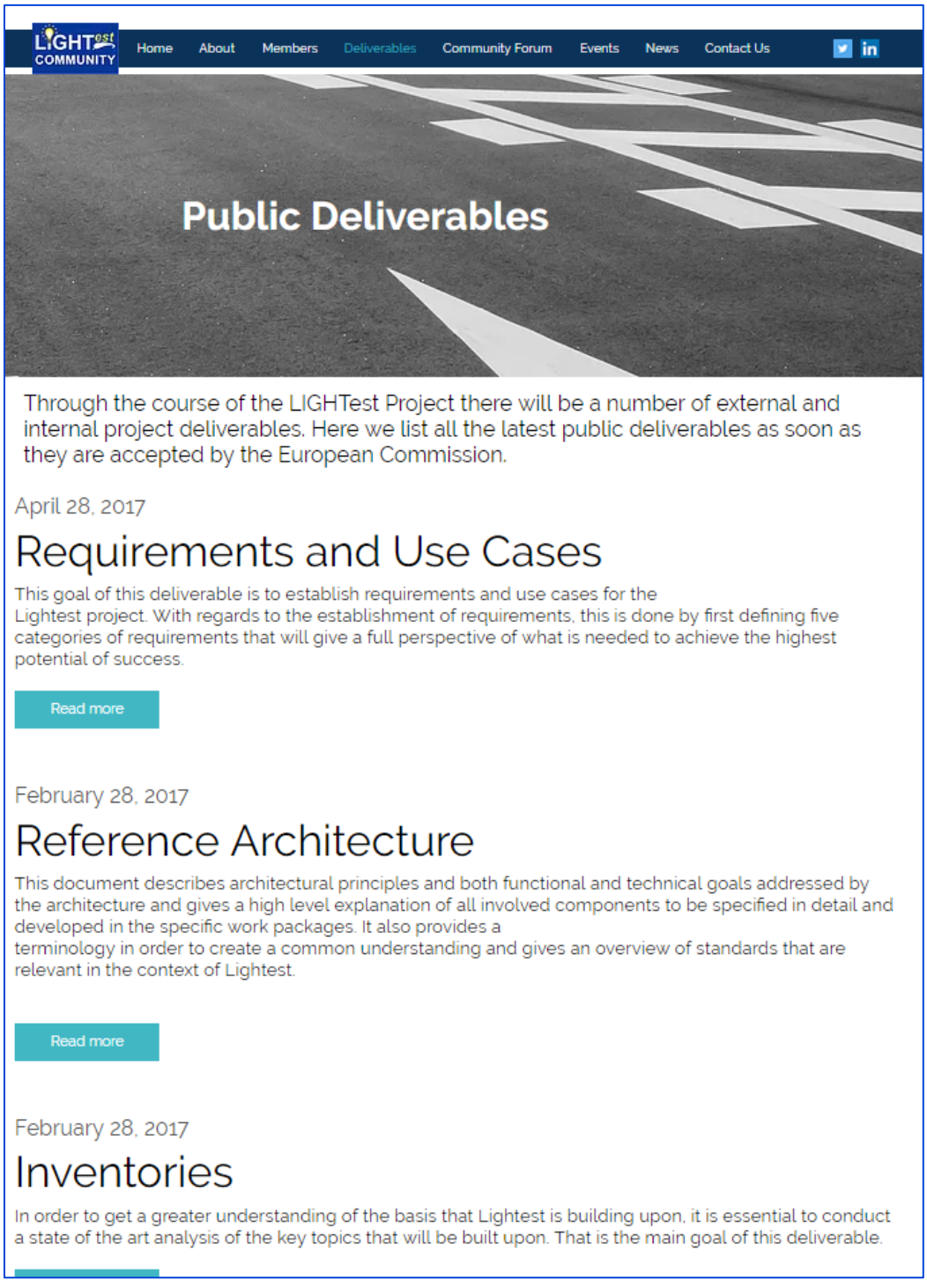

LIGHTest COMMUNITY

Home About Members Deliverables Community Forum Events News Contact Us

Public Deliverables

Through the course of the LIGHTest Project there will be a number of external and internal project deliverables. Here we list all the latest public deliverables as soon as they are accepted by the European Commission.

April 28, 2017

Requirements and Use Cases

This goal of this deliverable is to establish requirements and use cases for the Lightest project. With regards to the establishment of requirements, this is done by first defining five categories of requirements that will give a full perspective of what is needed to achieve the highest potential of success.

Read more

February 28, 2017

Reference Architecture

This document describes architectural principles and both functional and technical goals addressed by the architecture and gives a high level explanation of all involved components to be specified in detail and developed in the specific work packages. It also provides a terminology in order to create a common understanding and gives an overview of standards that are relevant in the context of Lightest.

Read more

February 28, 2017

Inventories

In order to get a greater understanding of the basis that Lightest is building upon, it is essential to conduct a state of the art analysis of the key topics that will be built upon. That is the main goal of this deliverable.

7. External Events in YR 1

Partner	Activity Type	Event Type	Event Name	Location Country	Start Date	Duration
EEMA	Presentation	Conference	Trust in the Digital World	NL	15/06/2016	2 days
EEMA	Presentation	Conference	EKSISTENZ General Meeting	UK	01/12/2016	1 days
FHG, EEMA	Presentation	Conference	World eID and Cybersecurity	France	26/09/2016	3 days
OIX	Presentation	Conference	Digital Citizen Keynote	GB	05/10/2016	1 day
OIX	Presentation	Workshop	OIX Workshop - pm	UK	18/10/2016	1/2 day
OIX	Presentation	Conference	Internet Identity Workshop(IIW)Fall 2016	USA	25/10/2016	3 days
OIX	Virtual Global Meeting	OIX Members Meeting	VIRTUAL	VIRTUAL	02/11/2016	1/2 day
OIX	Presentation	Conference	IDM UK	UK	09/11/2016	1 day
EEMA, FHG, OIX	Presentation	Conference	ISSE (Information Security Solutions Europe)	France	15/11/2016	2 days
ATOS/FHG/EEMA	Dissemination	Conference	World e-ID and Cybersecurity 2016	France	26/09/2016	3 days
FHG and TUG, EEMA	Paper in Proceedings	Conference	Open Identity Summit 2016	Italy	13/10/2016	2 days
ATOS	Press Release	Web	Atos Website	Spain	03/11/2016	permanent
ATOS	Dissemination	Conference	CSA-EMEA Congress 2016	Spain	15/11/2016	2 days
ATOS	Press Article	Business Magazine	Computing	Spain	30/01/2017	permanent
ATOS	Interview	Online Radio	Gestiona Radio	Spain	03/02/2017	permanent
OIX	Presentation	Workshop	OIX Workshop	The Netherlands	09/03/2017	1 day
ATOS	Interview	Business Magazine	Banca15	Spain	15/03/2017	Permanent
OIX	Presentation	Conference	IETF #98	USA	26/03/2017	6 days
ATOS	Video Interview	Business YouTube Channel	Banca15 TV	Spain	07/04/2017	Permanent
OIX	Presentation	Unconference	Internet Identity Workshop(IIW)Spring 2017	USA	02/05/2017	3 days
OIX	Presentation	Conference	European Identity &	Germany	09/05/2017	4 days

			Cloud Conference 2017(EIC)			
OIX	Presentation	Conference	K(NO)W Identity Conference	USA	15/05/2017	3 days
OIX	Presentation	Policy Meeting	International Identity Management Law and Policy Meeting II	USA	18/05/2017	1 day
OIX	Presentation	Forum	International Lightest forum meeting	USA	19/05/2017	1 day
EEMA	Presentation	Closed Conference	PORVOO 19	Italy	25/05/2017	2 days
NLNETLABS	Presentation	Working Group	CENTR Jamboree 2017	Germany	29/05/2017	2 days
ATOS	Interview	National Radio	RTVE	Spain	24/05/2017	permanent
OIX	Presentation	Conference	Cloud Identity Summit	USA	19/06/2017	4 days
OIX	Presentation	Conference	IDM Whitehall Media	UK	21/06/2017	1 day
EEMA	Presentation	EEMA Annual Conference	Conference	UK	05/07/2017	2 days
NLNETLABS	Presentation	Working Group	IRTF	Czech Republic	17/07/2017	1 day
OIX	Presentation	Internal Meeting	Internal Lightest Workshop	Belgium	17/07/2017	2 days
FHG/EEMA/NLNETLABS	Presentations	Conference	CITE 2017	Italy	29/08/2017	2 days

8. Example Conference Reports

8.1 eIDAS Trust Services: 6 months on after the switch-over

EEMA attended the eIDAS Trust Services Workshop which was held in Brussels, Belgium, on 19 December 2016, to present the state of play six months after the entry into force of the new rules for trust services under the eIDAS Regulation. EEMA led the discussions on geographic scalability of eIDAS, and specifically citing and explaining the role of LIGHTest.

How well have Member States managed to comply with the new rules? Are there obstacles that still need to be overcome? What about trust service providers? Are they on the right path to seize the opportunities brought by the new framework? By providing a platform for sharing experience, best practices, business cases and success stories, the workshop was an opportunity to take stock of the changes introduced by eIDAS in the EU trust services landscape and to discuss how best to leverage the opportunities offered by the eIDAS Regulation.

The objective of the one-day workshop was to present the state of play six months after the entry into force of these new rules. The morning session of the workshop was devoted to share experiences, best practices and success stories through presentations and real use cases. In the afternoon, participants were split into breakout sessions to discuss real challenges and address concrete questions related to the eIDAS requirements. The seminar was organised for representatives of the Member States, Supervisory Bodies, Conformity Assessment Bodies (CABs), National Accreditation Bodies (NABs), Certification Bodies (under Art. 30 of eIDAS Regulation), Trust Service Providers, ENISA and Standardisation Bodies - ETSI (CEN) representatives.

8.2 Trust Framework Workshop

The Open Identity Exchange (OIX) was delighted that Microsoft could host a ‘Trust Framework’ workshop in Amsterdam on 9th March 2017 that introduced the LIGHTest project in some detail. Bringing together over 70 organisations, our pan-European delegates were a mixture of digital identity experts and technical and non-technical representatives.

The workshop was kicked off by Ronny Bjones from Microsoft as he talked about identity as the control plane and how trust frameworks drive cloud identity dynamics. A great quote from his presentation certainly rings true for the LIGHTest project “Businesses and users are going to use technology only if they can trust it” (Satya Nadella, CEO Microsoft).

8.3 K(NO)W Conference in Washington

In May 2017, OIX and USTUTT presented LIGHTest in the context of identity frameworks and how these interoperate for seamless customer experiences, at the first K(NO)W Conference in Washington.

This was followed by the second International Identity Management Law and Policy meeting co-hosted by the World Bank. At this event, OIX presented LIGHTest in the context of trust frameworks and standards, with USTUTT introducing LIGHTest to this group of influential, global policy and legal decision makers from both the public and private sector. Whilst in Washington, OIX took advantage of consortium experts from EEMA, time-lex and USTUTT to hold the first International LIGHTest forum meeting. This group of global experts, mainly outside of Europe, met for a deep dive into LIGHTest, with technical, business and legal presentations from USTUTT and legal presentations from time-lex. This more intimate meeting had ample time, allowing for bi-directional curation of valuable feedback to and from the LIGHTest consortium partners as to global concerns and issues.

9. Partner Reports

Many partners will not have commenced specific dissemination activities as the related Work Packages may have started later in YR1. We expect dissemination from all partners within YR2 and YR3.

9.1 FHG

The FHG is the coordinator of the EU- funded project LIGHTest. Besides of coordinating this IT security project, the FHG was responsible, in the first year of the project, for the important and public deliverable D2.14, which represents the Reference Architecture. Moreover, the FHG is work package leader of WP3, the Infrastructure for the Publication and Querying of Trust Schemes. In WP3 no public deliverables have been due in the first project year. Here the first public deliverable is the “DNS-based Publication of Trust Schemes”, which is due in M18 of the project duration.

The FHG was present on the OID Rome, Italy with the paper “LIGHTest – A LIGHT-weight Infrastructure for Global Heterogeneous Trust Management”. Furthermore, LIGHTest was presented by FHG on the ISSE conference in Paris, France as well as on the IDM & OIX event in Amsterdam, Netherlands. In August 2017 (M12) the FHG is going to participate at the ARES conference in Reggio Calabria, Italy together with USTUTT, NLNET and EEMA. After the ARES conference, LIGHTest will be presented during the European Association for Biometrics (EAB) conference in Darmstadt, Germany.

9.2 EEMA

EEMA is the Dissemination lead for LIGHTest and is responsible for orchestrating the communications and dissemination activities of the consortium, amounting to over 30 actions in YR1. The aim of EEMA’s own dissemination activities has been to place LIGHTest as part of the strategic goals of the European Commission, in expanding its ability to trust global supply chains and reduce the friction in conducting business between entities operating within the eIDAS regulations and other Trust Schemes. EEMA itself attended over 10 events (some reported in the above table). LIGHTest was represented at EEMAs own “Privacy v Identity” Annual Conference in London and ISSE 2016 in Paris. In EEMA’s wider role in Europe, LIGHTest is continually raised and promoted.

EEMA was responsible for publishing the LIGHTest Newsletters, illustrated in this deliverable. EEMA developed the LIGHTest Community website, together with OIX, to promote our aims and generate support for LIGHTest in a more global environment.

EEMA has established the LIGHTest Advisory Board and its first meeting will be at the LIGHTest GA in Graz, Austria. Members of the Advisory Board consist of eminent names involved in Trust and eCommerce activities from both public and private sector, from the USA and Europe.

EEMA also participated with ATOS, OIX, NLnet and FHG in a WP10/WP11 workshop to build on the exploitation plans for LIGHTest into the future

9.3 USTUTT

During the first year of the LIGHTest project, the University of Stuttgart was task leader of Task2.1, as well as Task2.2. The University of Stuttgart was responsible for the first and the final version of the Inventories Deliverables, which represents an up to date picture of all the at times rapidly evolving aspects that need to be considered in the design of the LIGHTest trust infrastructure, e.g. Existing trust schemes and existing device attestation schemes. Moreover, the University had the lead of Task2.2. Here the University of Stuttgart had to provide a Requirements Analysis and Additional Use Cases. Regarding their dissemination activities, the University of Stuttgart was present on the following events: OID Rome, Italy; ISSE Conference Paris, France; IDM & OIX event, Amsterdam, Netherlands; the K(NO)W conference and the OIX & World bank Workshop, Washington D.C., USA. In August 2017 (M12), the University of Stuttgart will be present at the ARES conference in Reggio Calabria, Italy. On all events about LIGHTest a presentation was made by the University of Stuttgart to increase the visibility and range of LIGHTest and the LIGHTest community.

9.4 OIX

To address Social Media, we set up a LinkedIn account which has 27 members and posts which link back to events we've participated in and the latest public deliverables. We also run a Twitter account which has similar posts as well as re-tweeting relevant content from events. Currently have 96 followers and 31 tweets. We use the OIX Twitter and LinkedIn account to send out information related to LIGHTest. A LIGHTest-Community website has been put together which disseminates project information such as the latest deliverables and additionally publishes the latest events we will be presenting at. A forum has been created that allows interested individuals to comment and ask questions. All those signing up are verified manually first before being allowed access.

We sent out two OIX newsletters to around 300 contacts which included information about the LIGHTest project and how individuals could get involved.

OIX have been working on a whitepaper around inventories which is bringing together some of the research done for WP2.2 around use cases and requirements. OIX are in the final stages of finishing off the whitepaper and hope to communicate this later in the year.

9.5 ATOS

1st Year's Activities to date (16th of August) carried out by Atos include the following main actions:

Atos Communication Department sent the official LIGHTest press release to its usual media agency and was delivered to the media. In addition, Atos also has published the Press Release in the Atos website. Atos has managed the invitation to the CITE - The 1st International Workshop on Creating Identity – Trustworthy Ecosystems: This was a joint ARIES- LIGHTEST workshop organized by Atos.

Several members of Atos Research & Innovation department have participated in different events with national communication media including radio, TV and press interviews. These included: Gestiona Radio (since minute 37) - WISER and LIGHTest (Aljosa Pasic - Technology Transfer Director); Banca 15, digital press – LIGHTest (Alberto Crespo Responsible for the Identity and privacy Lab); RTVE program: Marca España, explaining cutting edge sectors “made in Spain”). An interview with Alicia Medina Head of Atos Research & Innovation.)

9.6 NLnetLabs

In YR1, NLNET presented LIGHTest at three occasions:

During the 98th meeting of the Internet Engineering Task Force (IETF) in March 2017 in Chicago, IL, OIX and NLNET organized a gathering of interested people, colloquially known as a ‘Bar BoF’ with the aim to make the IETF community aware of the LIGHTest project as well as provide an early start for the upcoming standardization work. The meeting was attended by nine people. The two partners presented the goals of LIGHTest and outlined early ideas how to achieve these goals. Since IETF as the Internet standardization body the meeting was particularly focused on the use of DNS within LIGHTest.

Because of this meeting, NLNET was approached in May 2017 to present the project on the CENTR Jamboree in Frankfurt, Germany. CENTR, or the Council of European National Top-level Domain Registries, is an association of the organizations that operate the country code top-level domains (ccTLDs) of Europe. The CENTR Jamboree is an annual meeting bringing together the association’s technical, economical, and administrative experts for an exchange. NLNET, who has been granted observer status in CENTR, presented LIGHTest as part of a workshop entitled ‘New biz: eId, trust frameworks & others.’ LIGHTest is of interest as registries often need to verify the identity, domicile, or legal status of domain name registrants.

Finally, during the 99th meeting of the IETF in Prague, Czech Republic in July 2017, NLNET presented LIGHTest at the Internet Research Task Force (IRTF), a sibling organization of the IETF focusing on research-oriented topics in Internet technology. The IRTF organized a Side Meeting on Distributed Infrastructure at which LIGHTest was presented as one of three selected use cases of distributed infrastructure. The goal of this group is to explore the potential of decentralized Internet infrastructure with distributed ledger technology. While LIGHTest does not aim to include the latter, its goal indeed is to provide the technological foundation for distributed, decentralized trust verification.

9.7 G+D

Within this reporting period, the focus of WP 7 activities was on achieving the objectives of defining requirements for derived mobile IDs with known trust properties and defining a system architecture for trusted environments on mobile devices. Both objectives have been reached by publishing deliverables D 7.1 “Definition of Requirements for derivation and attestation of mobile IDs” and D 7.2 “Definition of device system architecture and derivation scheme of mobile IDs” in time. In order to reduce complexity, the WP followed a stepwise approach. While task 7.1 focused more on generic

requirements of derived mobile IDs within the context of trust propagation across different trust domains, task 7.2 worked out a more concrete mobile ID scenario based on a specific protocol and proposing a concrete end-to-end scenario. There were no other dissemination activities in YR1.

9.8 TUG

We are proud to report that the paper “Harmonizing Delegation Data Formats” has been accepted at Open Identity Summit 17 in Karlstad, Sweden (Note: the paper is to appear). The paper covers how different delegation data format can be unified in a way, that they can be used for multiple purposes, instead of just a single purpose. Georg will be in Karlstad and present the paper on October 4th and October 5th. On September 19th, Georg is speaking at the EAB conference in Darmstadt, Germany, where he will speak about “Representing Delegations in the Domain Name System”.

9.9 Correos

Within the activities conducted by Correos to boost project’s visibility, a specific Wikipedia page of LIGHTest was created. This page includes basic information of the project and redirects the reader to official resources and/or give a brief idea of the project. Additionally, this kind of web resources, increase reachability of pages referenced, such as the official LIGHTest webpage.

As part of the networking activities, two members of Correos team attended the ICANN DNS Symposium, that took place in Madrid. Such an international meeting is a great opportunity to let DNS experts get to know about the LIGHTest infrastructure and the value it’ll add. Likewise, getting to know about the last updates on this topic is key to ensure our project is going on the right direction.

Due to the good relationships with the Universal Postal Union (UPU), of the United Nations, Correos team have met with UPU representatives on topics such as international standards and links/agreements between UPU and the LIGHTest consortium. This has been sponsored and boosted by having Victor Martin as member of the steering committee of the “post” project.

9.10 Time.lex

Within LIGHTest, Time.lex is responsible for legal and ethical compliance, including particularly compliance with the GDPR and the eIDAS Regulation. Time.lex has also been involved in the development at the EU level of the regulatory and policy landscape around electronic identification and trust services. Therefore, Time.lex participated in dissemination events that focused on legal and policy issues.

Time.lex participated in the Trust Framework event in Amsterdam on 9 March 2017, introducing the legal challenges and envisaged solutions towards a broad audience of over 70 organisations. The event allowed early legal and policy expectations to be tested, critically evaluated and thereafter finetuned, which was very useful for the further development of the thinking behind the legal deliverables of LIGHTest in Year 1.

Time.lex furthermore presented the legal model behind LIGHTest at a discussion session organised by OIX Forum in the offices of Locke Lorde LLP in Washington DC, following the International Lightest forum meeting, on 31 May. The discussion meeting included lawyers, but also representatives of American and international think tanks and policy organisations, and was vitally important to help scope some of the policy potential of LIGHTest, along with the related challenges and possibilities.

Finally, Time.lex (along with OIX and USTUTT) participated in a podcast interview for One World Identity, showcased as an example of global identity community building. The podcast is available at https://oneworldidentity.com/2017/07/25/lightest-the-future-of-trust/.

9.11 DTU

The main focus of DTU has been the development of the Trust Policy Language TPL for the LIGHTest project. It is in fact the basis for the project allowing to formally describe not only Trust Policies, but also Trust Translation Policies and Delegation Policies. It is based on the existing language Prolog. Therefore TPL gives not only a concrete meaning, it also provides immediately an implementation when all predicates are implemented. This has been done in correspondence with the other partners, especially in workpackages 3-6 that work on this basis. The language has already been used to formulate several example policies, for instance in the e-Health area. The language has been briefly described in the architecture deliverable D2.14, and is now defined in full detail in the upcoming deliverable D2.4 on the formal basis of LIGHTest. We plan to extract the main results and essence from this deliverable and publish it as a conference paper soon.