



D11.17

Contextual and situational description and benchmark of events (2)

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1. Executive Summary

These deliverables summarize the activities at LIGHTest dissemination events in YEAR2, 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.

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2. Document Information

Contributors

Name	Partner
Jon Shamah	EEMA
All Partners	-

History

Version	Date	Author	Changes
0.1	13/07/2018	JS	Initial Document
0.2	15/07/2018	JS	draft
0.5	26//07/2018	JS/GT	updates
0.8	02/082018	JS	updates
1.0	02/08/2018	JS/LS/RD	FINAL
1.01, 1.02	03/08/2018	JS/LS/RD	Internal Review
1.03	10/08/2018	TUG	TUG Review
1.04	17/08/2018	RS	USTUTT Review
1.05	20/08/2018	RS	Fixed reviews

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4. LIGHTest Value Proposition and Approach

Value Proposition

LIGHTest has a simple Value Proposition conveying a complex message:

“Lightest enables the use of a global and trusted infrastructure to determine and verify digital trust assurances to facilitate decision making and assessing risk.

By better understanding operational risk, operational costs can be better controlled. LIGHTest is providing tools for the emerging cross-border trust services market.”

Tri Channel Approach

LIGHTest also maintains a tri-channel approach addressing the three stakeholder sectors:

- Business: Helps opinion leaders better understand the lightest opportunity e.g. use case development,
- Legal: Aligns with new and existing trust schemes to manage commercial liability and provide for regulatory compliance,
- Technical: Facilitates cross border interoperability e.g. engagement with international standards organisations.

Each of these channels are supported by focused messaging in order to maximise the understanding of each group.

Corresponding single-page flyers and four-page leaflets have been created and are updated twice a year. These are used in the approach to the LIGHTest International Forums where one channel is focused on per meeting, The Tri-channel approach is used to provide a comprehensive perspective that can cover the differently oriented stakeholders. This has proven to be a successful strategy to convey the complexities of LIGHTest.

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5. LIGHTest Advisory Board

The LIGHTest Advisory Board comprises:

- Andre Boysen: Securekey (Canada)
- Esther Makaay, SIDN (The Netherlands)
- Jakob Schlyter: Kirei (Sweden)
- Jorge Cuellar: Siemens (Germany)
- Slawomir Gorniak: ENISA (Greece)
- Sverre Bauck: Karde (Norway)
- Tim Reiniger: State of Maine (USA)
- Mike Garcia: Former NIST (USA) * New Member*
- Adam Cooper: Chief Architect at ID2020 (UK) * New Member*
- Arif Mailov: CMS Service Center (Azerbaijan) * New Member*

The LIGHTest Advisory Board has gained three members in YEAR2 bringing its total to 10. All have been heavily engaged with the project demonstrating a 90% attendance rate at General Assemblies being involved with planning and technical discussions directly.

The new members are:

Adam Cooper



Adam Cooper joined the UK Government Digital Service in 2013 and is responsible for the governance of the Identity Assurance Architecture and its continual development. An original author of the underlying identity assurance architecture, Adam chaired the Technical Design Authority, comprised of other senior architects involved in the identity and security space from both GDS and NCSC.

Currently Adam is now Chief Architect at ID2020 (<http://id2020.org>) and consults for other international organisations. Adam continues working with trust translations and mapping of identity schemes which is at the core of the LIGHTest proposition.

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Mike Garcia



Mike Garcia led NIST's Trusted Identities Group (<https://www.nist.gov/>), focusing market-based solutions for identity management with federal guidelines and standards to accelerate government and commercial adoption of privacy-enhancing, secure, interoperable and easy-to-use digital identity solutions. Mike oversaw a portfolio of commercial pilot programs totalling more than \$50 million in grant funding, drafting and updating federal standards for information technology, developing and harmonizing international standards and advancing research in identity technology and measurement science.

Mike has extensive experience with the US Federal environment as part of NIST and an in depth understanding of both this and the private sector in the US.

Arif Mailov



Arif Mailov has been the Head of the Azerbaijan National Certification Service Center since 2011. In 2012, he was honoured with the Honorary Order on the occasion of the professional holiday of communication workers and in 2015 as awarded the title 'Master of Communication'. The National Certification Services Center (root certification authority) for issuing qualified electronic signature certificates for citizens, legal entities and governing bodies. DPC has international quality certificate ISO 9001:2008 and certificate ISO 27001:2013 on Information Security Management System.

His experience of the potential practical uses of LIGHTest make his contributions of great value to the success of the project.

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Advisory Board Activities

- *Bulletin Contributions in YEAR2:*
Sverre Bauck, Tim Reiniger, and Esther Makaay, provided topical editorial.
- *Supporting General Meetings in YEAR2:*
There was a 90% attendance rate for the Advisory Board at the LIGHTest General Meetings. The Advisory Board took an active role across all the discussions contributing and enhancing the planning and decision making.
- *Supporting external events in YEAR2:*
Tim Reiniger supported LIGHTest at the Identiverse conference by joining Rachelle Sellung, Jon Shamah, and Don Thibeau on the panel at the 'Lunch and Learn' seminar for conference attendees.

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6. LIGHTest International Forum

The primary goal of this work package is to reach a global audience with our dissemination and outreach efforts. Therefore, we have developed and grown a LIGHTest International Forum which has attracted a small group of select individuals who are interested in the developments of the project and are on board to contribute their feedback, help to disseminate information and also be there to help adoption after the project ends.

We've held 3 LIGHTest International Forum meetings so far and arranged them to coincide with identity events which has helped to ensure the right people are in attendance at the time:

- May 2017 – alongside a One World Identity conference in Washington, USA
- March 2018 – coincided with IETF in London
- June 2018 – a bespoke session during the Identiverse conference in Boston, USA

Planned meetings for remainder of 2018:

- November 2018 – Sydney, Australia, to coincide with a Blockchain, Identity Trust and Governance (BITGov) OIX and OpenID Foundation/Open Banking Workshop
- November 2018 – Singapore, to coincide with a Blockchain, Identity Trust and Governance (BITGov) OIX and OpenID Foundation/Open Banking Workshop

Further Forum meetings will take place during 2019.

The agenda focusses on the tri-channel approach; covering the business, legal and technical developments in the project. They are informal and interactive sessions which allow work package leaders to present their latest developments and gather feedback which helps to shape the project going forward. This two-way interaction has been vital to test out the marketplace, receive valuable feedback from key respected experts in the field that are outside of Europe and help to ensure the success and wide scale adoption of LIGHTest after the project finishes.

The meetings usually attract around 15-20 senior industry figures, or more depending on location, and have a duration of approximately 2 hours.

This group are communicated with on a more regular basis, included being invited to attend each future event. During the next year, they will be receiving more regular newsletters with updates on the project status.

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7. Brochure Series Extended

Figure 1 shows updated series of Tri-Channel four-page brochures. These brochures are designed in conjunction with the single page flyers to provide collateral information to interested parties in differing formats and detail.

	<ul style="list-style-type: none"> • General Introduction to LIGHTest: • The Lightest Project • Work in Progress <ul style="list-style-type: none"> • Creation of a Global Trust Infrastructure at Feasible Effort • Global Acceptance of the Approach Beyond Europe • Support for Heterogeneous Trust Models, since Homogeneous Models fail to Scale Globally • Automatic Handling of Subsidiarity Principle in Trust Schemes • Access to Trust Schemes based on Human-Readable Names • Use of a Single Trust Root to Replace a Multitude of trust Anchors • Integration of Multiple Types of Trust Schemes in a Single Infrastructure
	<ul style="list-style-type: none"> • LIGHTest is a toolbox <ul style="list-style-type: none"> • DNS used as a secure discovery and communication tool but legal value and compliance doesn't originate from DNS • LIGHTest should be tailored <ul style="list-style-type: none"> • Pilots will show how LIGHTest can be deployed on a contractual basis • Guidelines to be provided on how LIGHTest can be used in other settings • LIGHTest includes legal tools <ul style="list-style-type: none"> • Security built into LIGHTest infrastructure: privacy by design • Templates for T&Cs, privacy policies and contracts between users • LIGHTest is not a legislative initiative <ul style="list-style-type: none"> • Not aiming to change laws, but show how DNS can be leveraged

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	<p><i>Use Cases:</i></p> <ul style="list-style-type: none"> • Internet of Things Trust Management <ul style="list-style-type: none"> • If a person or company wants to enforce organisational policy, determine which IoT devices are allowed or permissible • Organise IoT Assistants to communicate based on certifications of a trusted party • Acceptance of Cross-border Certification <ul style="list-style-type: none"> • These could be training certificates, government certificates etc, and be specific to a country • LIGHTest could be used to ensure trust in these certifications and translate these certifications between different countries • Cross-border banking <ul style="list-style-type: none"> • Opening a bank account in a different country can be difficult and slow with users needing to assert trustworthy data about themselves to support an application for a new financial service • LIGHTest could help with this cross-border verification and enable an account
	<p><i>A Trust Publication</i></p> <ul style="list-style-type: none"> • Infrastructure for Publication and Querying of Delegations <ul style="list-style-type: none"> • Organisation publishes Trust List • Who can sign/act in its name for which purposes? <p><i>Trust Translation Infrastructure for Translation across Trust Domains</i></p> <ul style="list-style-type: none"> • Authority publishes Trust List: <ul style="list-style-type: none"> • Which authorities from other trust domains are trustworthy? • How do you translate foreign native trust schemes? <p><i>Trust Delegation</i></p> <ul style="list-style-type: none"> • An Infrastructure for Publication and Querying of Delegations

Figure 1

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Figure 2 shows updated single-page Tri-channel flyers:

<p>BUSINESS</p> <h3>The emerging market of cross-border trust services</h3> <p>LIGHTest allows you to use a global known and trusted infrastructure to retrieve and verify identity information and determine trust assurances behind it, to facilitate decision making. By better understanding the opportunities that LIGHTest present, we can calculate the operational costs and determine the ongoing success of the project. LIGHTest providing tools for an emerging market.</p> <p>USE CASES</p> <p>IoT Trust Management</p> <ul style="list-style-type: none"> If a person or company wants to enforce organizational policy, determine which IoT devices are allowed or permissible Organize IoT Assistants to communicate based on certifications of a trusted party <p>Cross-border Certification</p> <ul style="list-style-type: none"> These could be training certificates, government certificates etc. and be specific to a country LIGHTest could be used to ensure trust in these certifications and translate these certifications between different countries <p>Cross-border banking</p> <ul style="list-style-type: none"> Opening a bank account in a different country can be difficult, and slow with users needing to assert trustworthiness data about themselves to support an application for a new financial service LIGHTest could help with this cross-border verification and enable an account to be opened in line with regulatory obligations <p>LIGHTestTM Pilots</p> <ul style="list-style-type: none"> The Trustworthy Communication Services Pilot will integrate LIGHTest in the cloud-based e-Cross platform. This will allow the generation of new positive business use cases, whilst helping users reduce administrative overhead. The E-Procurement Pilot will integrate LIGHTest in a PEPPOL - Invoicing Infrastructure which will be run by IBM and the LIGHTest service will be activated and integrated in different pilot scenarios. <p>There are plenty of opportunities to find out more about LIGHTest face-to-face as we present at the upcoming events:</p> <ul style="list-style-type: none"> Federal Identity Forum & Exposition, Washington ICC Consumer Identity World APAC, Singapore HOVIDIVE Technical Workshop, Copenhagen ISSE, Brussels <p>For more information visit: www.lightest.eu trust@lightestcommunity.org www.lightestcommunity.org Join the discussion at #E4T</p> <p>This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 101017722</p>	<p>LEGAL</p> <h3>Breaking new ground in cross-border trust agreements</h3> <p>LIGHTest allows you to use a global known and trusted infrastructure – the DNS, one of the corner stones of the internet – to retrieve and verify identity information and determine trust assurances behind it. LIGHTest can facilitate decision making in numerous contexts: is the person who they claim to be? Can they represent a company? Is a transaction legitimate? Can I trust a document? There are a number of legislative requirements which need to be taken into account including eIDAS, GDPR and BRS as well as a myriad of national laws depending on use cases. The DNS focuses on enabling technically trustworthy communications, and LIGHTest allows you to build a solution around it that can ensure legal validity as well.</p> <p>LIGHTest is a toolbox</p> <ul style="list-style-type: none"> DNS used as a secure discovery and communication tool But legal value and compliance doesn't originate from DNS <p>LIGHTest includes legal tools</p> <ul style="list-style-type: none"> Security built into LIGHTest infrastructure privacy by design Templates for T&C, privacy policies and contracts between users <p>LIGHTest needs to be tailored</p> <ul style="list-style-type: none"> Pilots will show how LIGHTest can be deployed on a contractual basis Guidelines to be provided on how LIGHTest can be used in other settings <p>LIGHTest is not a legislative initiative</p> <ul style="list-style-type: none"> Not aiming to change laws, but show how DNS can be leveraged Compliance needs to be assessed in each individual use case <p>The LIGHTest project must be executed in accordance with all applicable laws, ethical standards and societal constraints. While certain compliance factors can be built into the technology, the legal ethical and societal requirements are largely dictated by use cases and standards.</p> <ul style="list-style-type: none"> Good administration Control Quality of data Justice Security Privacy, data protection & confidentiality Accountability Equality & solidarity Lawfulness & compliance Quality of service Interoperability Value, validity and evidence <p>The Legal Quartet</p> <p>Cross-border legal compliance addresses four topics:</p> <ul style="list-style-type: none"> Publication: how can you trust information published by the DNS? Translation: how can you determine legal equivalence between different trust contexts? Delegation: how can you determine whether one person is permitted to represent the other? Trust policy and Trust Delegation: how can you make sure that your decisions based on LIGHTest are sound? <p>For more information visit: www.lightest.eu trust@lightestcommunity.org www.lightestcommunity.org Join the discussion at #E4T</p> <p>This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 101017722</p>
<p>TECHNICAL</p> <h3>Next generation of open standards and technical tools</h3> <p>LIGHTest allows you to use a global known and trusted infrastructure to retrieve and verify identity information and determine trust assurances behind it, to facilitate decision making. This dataset demonstrates how LIGHTest creates a global standard way for trust scheme discovery and trust scheme verification utilising the DNS as the publication database. LIGHTest enables interoperability between existing frameworks both cross-border and cross-application solving real problems that exist today.</p> <p>A Trust Publication</p> <p>Infrastructure for Publication and Querying of Delegations</p> <p>Organization publishes Trust List:</p> <ul style="list-style-type: none"> Who can sign on its name for which purposes? <p>LIGHTest will make it automatic for verifiers to query Trust Lists and combine multiple queries to validate an electronic transaction against an easy to author Trust Policy.</p> <p>Trust Translation</p> <p>Infrastructure for Translation across Trust Domains</p> <p>Authority publishes Trust List:</p> <ul style="list-style-type: none"> Which authorities from other trust domains are trustworthy? How do you translate foreign into native trust schemes? <p>Trust Delegation</p> <p>Infrastructure for Publication and Querying of Delegations</p> <p>The output of LIGHTest will be tools you can use today.</p> <p>For more information visit: www.lightest.eu trust@lightestcommunity.org www.lightestcommunity.org Join the discussion at #E4T</p> <p>This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 101017722</p>	<p>The Tri-Channel Flyers are similar in content to the Tri-Channel brochures, and are designed in a different format for use in technical meetings.</p>

Figure 2

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8. Bulletins

Produced by WP 11 lead, EEMA, the LIGHT^{est} newsletter is an invaluable resource for the dissemination of up-to-date information regarding the advances made by the project. The newsletter has been published bi-monthly since the first edition in both YEAR1 and YEAR2. EEMA has delivered seven newsletters including internal and external versions to cater for all stakeholders. They can be found online at <https://lightest-community.org>.

Each newsletter includes updates regarding each Work Package, news of LIGHT^{est} participation in seminars and exhibitions, project meeting overviews, informative articles and profiles from Project Partners, insights from Advisory Board members and upcoming activities and events. Highlights include...

Project Partner articles

- Trusted mobile IDs using LIGHT^{est} (*Dr. Frank-Michael Kamm, G+D Mobile Security*)
- DNS - A perfect foundation for the LIGHT^{est} global trust infrastructure (*M Martin Hoffmann, Systems Architect, NLnet Labs*)
- Putting LIGHT^{est} to the test with eCorreos (*Javier Salazar, Digital Strategy Project Manager, Correos*)
- Why are identities a core element of digitalisation? (*Charles Sederholm - Director, Business Development, Ubisecure*)
- Communicating the LIGHT^{est} Message (*Jon Shamah, Chair, EEMA*)
- Minder Testbed (*Dr. Oktay Adalier, eID Department Head, TÜBİTAK BİLGEM*)
- Trust Domains for Mobile ID Applications with LIGHTest (*Dr. Frank-Michael Kamm, G+D Mobile Security*)
- LIGHT^{est} and the principle of privacy by design: how technological innovation can make you safer (*Hans Graux, Founding Partner, time.lex*)
- Interview with Alberto Crespo of ATOS Spain

Advisory Board Contributions

- View from the Advisory Board – A US perspective on the LIGHT^{est} Project: Commercial equivalence as a lubricant for the information economy (*Timothy S. Reiniger, The Timothy Reiniger LLC Advisory Practice*)
- View from the Advisory Board - How do you explain LIGHT^{est}? (*Esther Makaay, Services Architect, SIDN, Netherlands*)
- View from the Advisory Board – Digitalization of cross-domain trust gives globalization (*Sverre Bauck, Senior Expert, Karde, Norway*)

Project Partner profiles

- Correos, Ubisecure, NLnet Labs, EEMA, TÜBİTAK BİLGEM, Time.lex

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Figure 3 lists the front page of each newsletter in the period reported.

Cover Page Only Shown

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://timellex.eu>

@LIGHTest_trust
LinkedIn click here
www.lighttest.eu
Produced by EEMA - WP11 Lead, LIGHTest

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View from the Advisory Board - How do you explain LIGHTest?

Since meeting with the project team and some of its members in Graz, I found myself struggling with this. Not only at work, but also at some eIDAS-centric (electronic Identification, Authentication and trust Services) meetings I attended, where people are talking about EU trusted services.

The main efforts of establishing a single digital market are directed at removing impediments for performing online cross-border transactions by qualifying e-ID, authentication, signatures and seals and find mechanisms such as eIDAS for accepting the qualifications.

Many people involved in this, think that eIDAS (and maybe also a project like FutureTrust) will generate all that is needed to achieve this - it facilitates qualified services and the only stuff needed to use it would be tooling for validation of these qualifiers. They're trying to convince software vendors to incorporate these validation mechanisms into their applications (operating systems, web browsers,

mail clients, document readers). Until full cooperation on this is gained, there's work on plug-ins and stand-alone applications for performing these checks and validations. If stuff turns green or shows a picture of a pretty seal or lock, it would prove qualification and establish trust.

What does it mean when something turns green? It shows you how you can trust a transaction. It typically shows validation that a coherent and consistent set of data has been established. This could be, for example, a document (proven unchanged) signed with a valid signature, based upon an identity (with specific attributes), issued by a qualified or recognised service provider and bound by a specific policy.

Where's the need for LIGHTest? What more would you possibly want? And please bear in mind that all this already is a huge amount of work to establish in itself.

What's still needed is a mechanism to show why a transaction can be trusted. A valid signature by an asserted person or organisation isn't enough. I'd really want to know whether I can trust both this asserted person and the entity or entities certifying the assertion

The Advisory Board members in Graz

and the signature. This sounds like highly personal preferences in trust, but in everyday business this mostly comes down to whether a person or organisation is qualified to make specific assertions. If the signature relates to a document, would the person or organisation signing that document be qualified to state whatever is in its content? And who vouches for this type of qualification?

Although this is almost inconceivable in the EU, not everyone will blindly trust eIDAS. Keep in mind that a person is not their e-ID and an organisation is not their certificate, however many qualifications you attach to them.

The General Meeting in Graz was a great experience to engage in all the perspectives that LIGHTest touches upon - a lot of technical stuff, many legal issues and a good deal of communication. Although the heart of the project is about getting stuff functioning and building it to work, maybe the toughest part will be conveying the value of the results, both during the project and after finishing it. I believe the Advisory Board should keep a special focus on this.

So, my question to you all is: How do you explain LIGHTest?

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LIGHTest Newsletter
Edition 6
February 2018

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View from the Advisory Board – A US perspective on the LIGHTest Project: Commercial equivalence as a lubricant for the information economy

From the US commercial perspective, leveraging the DNS infrastructure to publish trust schemes (or contractually bound identity trust frameworks of various kinds) offers, for the first time, the promise of easy global access to authoritative and authentic trust information, and the notion of publishing trust schemes and their policies – representing commercial equivalence in trusted information versus legal equivalence – is built expressly on the EU foundation of two of the most extraordinary legal achievements of our era: the eIDAS Regulation and the GDPR. Now LIGHTest unleashes the ability for both the US and EU commercial sectors to leverage fully these pathbreaking regulations as the basis for a trust infrastructure to grow the global information economy.

At the General Meeting in Graz, Jon Shamah, highlighted two important objectives for LIGHTest:

1. Providing scalable transparency to trust services, globally.
2. Extending the EU strategy of eIDAS influence outside of original geographic and sector boundaries.

This is echoed in the D2.9 Report on page 15 – "Observing that the eIDAS Regulation provided a strong and credible trust model for electronic identification and trust services within the European Union, the goal was to find a way to extend this model both geographically (identities and trust services outside the EU) and contextually (other trust information than the trust schemes of the eIDAS Regulation."

The first category of added value LIGHTest brings involves digital identity providers, attribute providers, identity brokers, and Trust Mark issuers. Because the eIDAS cross-border recognition provisions for electronic identification apply only to public sector identity credentials issued by EC member states, EU-US commercial interests still have immediate need for private sources of digital identity credentials, as well as identity attribute brokering services to enable international transactions and data transfers. From the US perspective, the LIGHTest trust model of assurance that is legally defined, based on independent audits, and discoverable through public trust lists, provides a technology and policy tool for achieving identity assurance that can unleash opportunities for international data transfer. As the Social Impact Report notes – "LIGHTest can be used for any trust scheme and any trust decision, whether based on a legislative framework, contractual assurances or even individual preferences, even at a very small ad hoc scale." (D2.9 at page 15.)

The second category of added value occurs when service providers offer validation of non-qualified trust services and the commercial equivalent of such services outside of the EU. Though the usefulness of qualified trust services for achieving legal equivalence is without doubt, in a vast number of use cases, US commercial interests merely need the ability to leverage non-qualified electronic signatures, electronic seals, and delivery services. Currently, there is no easy or scalable means by which to find these non-qualified trust services, validate their authenticity, and translate assurance levels. "Since the number of application areas is practically unlimited – LIGHTest can be used whenever trusted information must be published, validated or translated." (D2.10 page 25.)

The third category of added value results from ability of the LIGHTest infrastructure to enable trust

Timothy S. Reiniger, The Timothy Reiniger LLC Advisory Practice

Produced by EEMA - WP11 Lead, LIGHTest

Cover Page Only Shown

LIGHTest Newsletter
Edition 7 - Internal
May 2018

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

Trusted mobile IDs using LIGHTest

identity to authentication credentials, and to provide a smooth and user-friendly online flow. In addition, the process must comply with existing regulations like eIDAS, GDPR and the Payment Service Directive (PSD2). If the customer has a non-European ID, this requires trust translation from the foreign scheme to eIDAS. In addition, compliance to national regulations may restrict the choice of allowed authenticators.

To address these challenges, LIGHTest WP7 develops technologies to use mobile IDs with known trust levels based on FIDO technology. The goal is to provide a mobile ID and strong authentication concept that allows a service provider to determine which overall LoA can be achieved with a specific mobile ID and authentication method.

The FIDO protocol is particularly well suited for this approach since it already provides an internal attestation scheme, allowing a relying party to verify which type of authenticator is used. By querying whether this specific authenticator complies with a regional or industry-specific trust schemes. As an example, a national banking regulator could establish a national trust scheme for financial applications and could publish the types of accepted authenticators. The complex landscape of involved roles and trust schemes is shown in Figure 1. Since the issuers of the primary and secondary (mobile) ID, the authenticator manufacturer and the relying party can be located in different trust schemes, a propagation of trust information (like the LoA) requires heavy use of the LIGHTest infrastructure.

With the technologies developed in WP7, service providers can obtain the overall LoA of a mobile ID and can ensure compliance with their specific trust scheme. All of this occurs in a user-friendly way and is compatible to modern authentication technologies like biometrics.

As the identity and authentication challenges are of extreme importance for the digitalisation strategy of many major service providers, this topic will gain further business relevance over the next years.

Author: Dr. Frank-Michael Kamm, G-D Mobile Security

When a service provider such as a bank wants to on-board a new customer by a fully digital flow, it faces the challenges to determine the Level of Assurance (LoA) of the customer identity, to technically link the

Trust scheme Publication Authority
LoA
Primary Identity Issuer
LoA
Primary ID

Trust scheme Publication Authority
LoA
Secondary Identity Issuer
LoA
Secondary ID (mobile)

Trust scheme Publication Authority
LoA
Device Manufacturer
LoA
Secure Storage Device

Trust scheme Publication Authority
LoA
Relying Party

Figure 1: Roles and relationships in the complex landscape of derived mobile IDs across different trust schemes.

Produced by EEMA - WP11 Lead, LIGHTest

Figure 3

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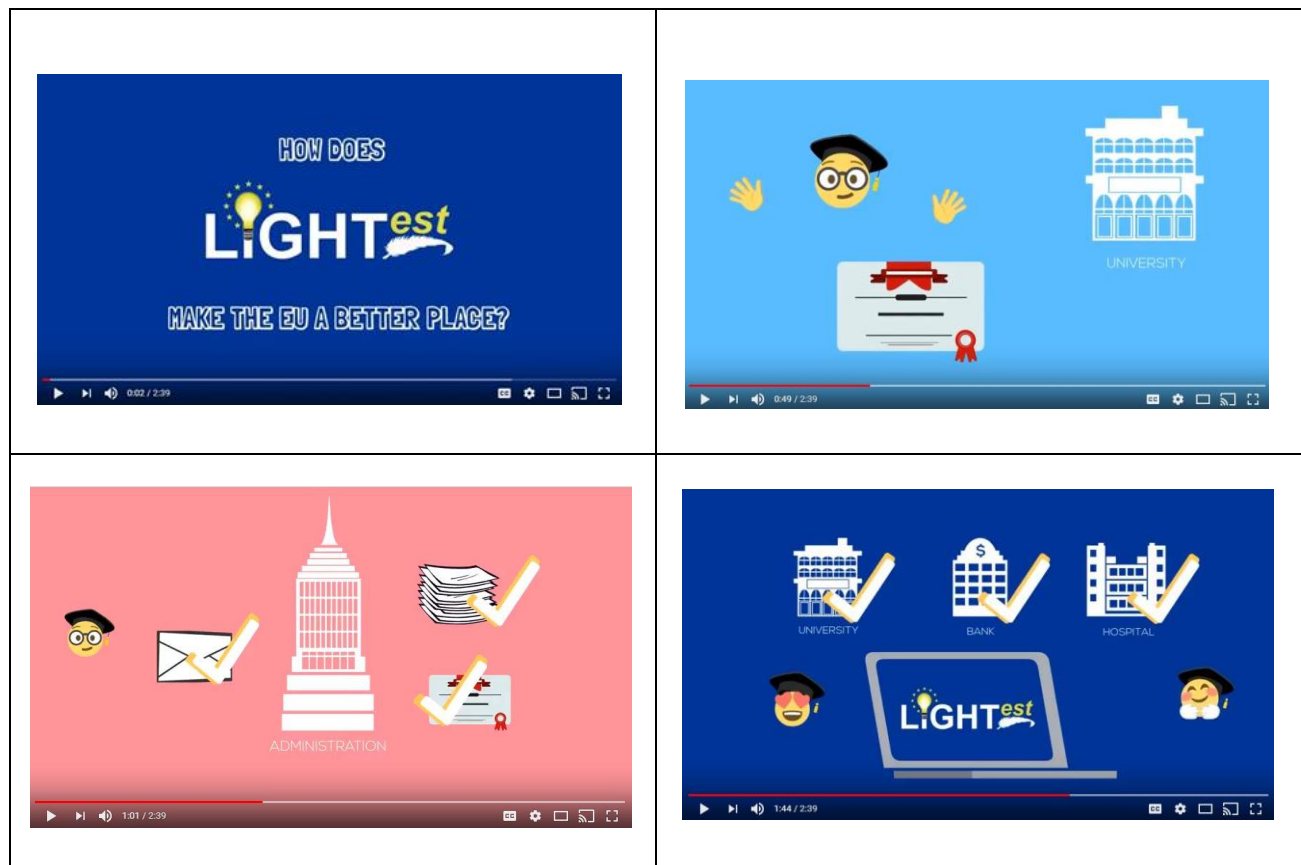


9. Lightest Video

LIGHTest has produced a short explanatory cartoon-based video to help non-technical stakeholders understand the usefulness of the technology. (<https://youtu.be/IEaCMcVer28>) See figure 4.

It explains in an easy-to-understand form the need for LIGHTest and then works through an education use-case to illustrate the various features. Finally, it explains how the two real-use pilots, CORREOS and PEPOL can exploit LIGHTest to improve their businesses. The video is ideally suited as a stand-alone tool at conference booths and is able to convey the message of LIGHTest without intervention.

The video has been embedded in the LIGHTest-Community website.



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Figure 4

Additionally, there have been 3 short videos created which describe the tri-channel approach in more detail with a focus on the business, technical and legal aspects of LIGHTest. These can be found here:

Business: <https://www.youtube.com/watch?v=wsatJcGNh3c>

Technical: https://www.youtube.com/watch?v=-PUA_3etZjg

Legal: <https://www.youtube.com/watch?v=MU6mYe8DOGQ>

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10.LIGHTest-Community Website and Social Media

Website

The Lightest Community Website is a specific globally focused 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: <https://lightest-community.org> . The website continues to be refreshed and updated.

Some example pages Figure 5-Figure 7:

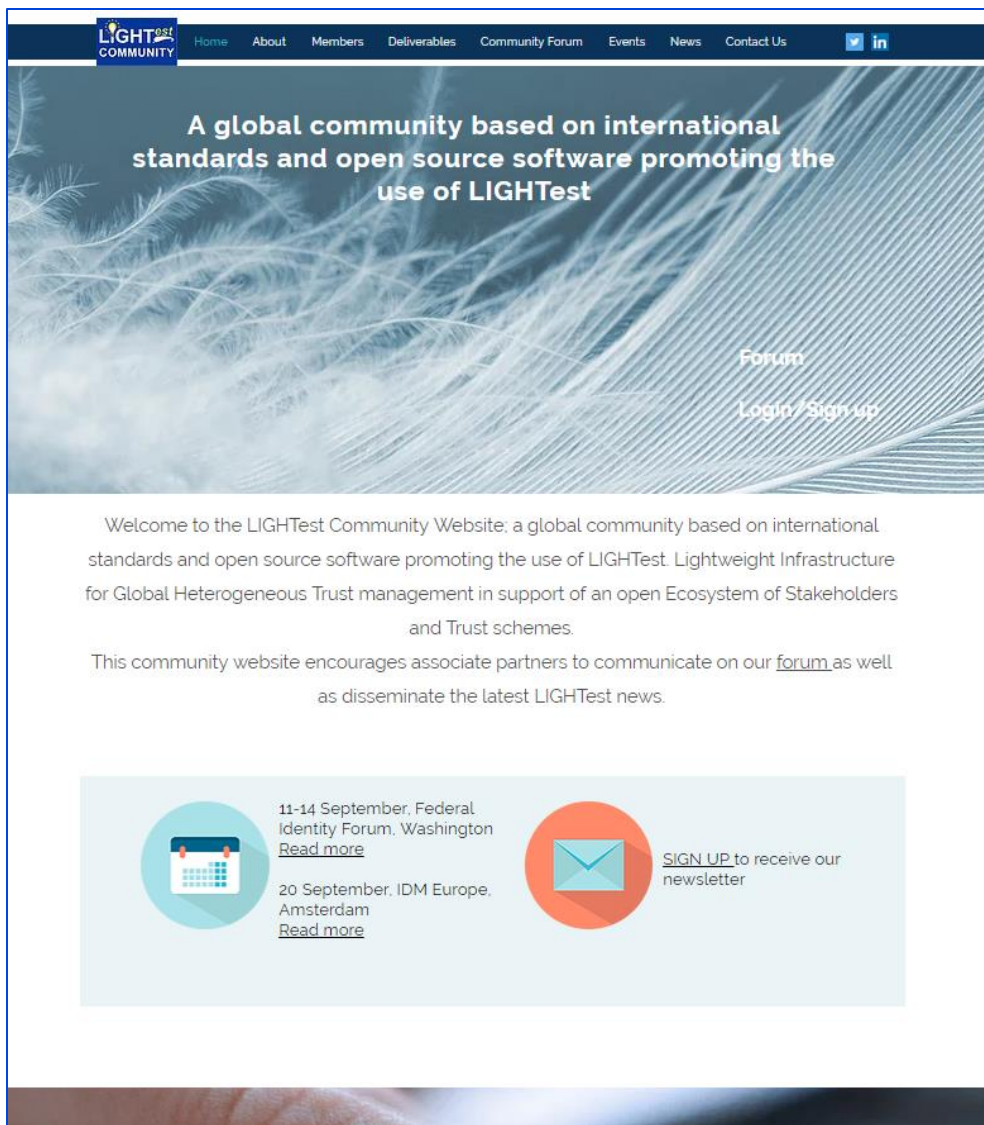


Figure 5

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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

Lightweight Infrastructure for Global Heterogeneous Trust management in support of an open Ecosystem of Stakeholders and Trust schemes

Partners shown on the slide include: Fraunhofer, GlobalSign, IBM, Universität Stuttgart, GED, Gliesecke & Devrient, TÜBITAK, AtoS, CORREOS, OJK, NInet Labs, DTU, and others.

© LIGHTest Consortium

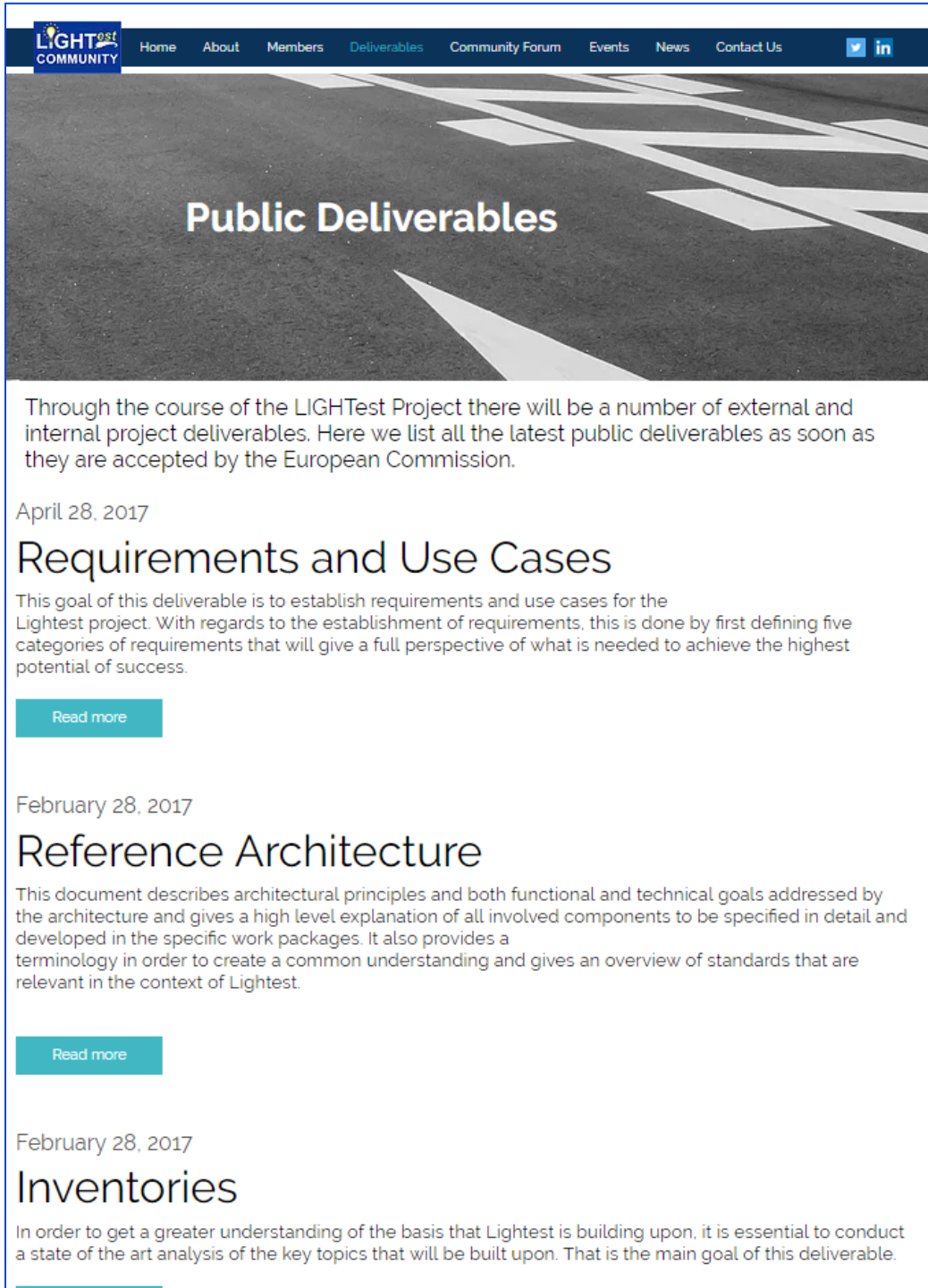
LIGHTest has received funding from the European Union's Horizon 2020 research and innovation programme under G.A. No. 750321

Data Protection | Publishing Notes | Image Sources | info@lightest-community.org

Figure 6

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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.

Figure 7

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Social Media Statistics

The community website provides a platform to allow for dissemination of all the latest news as well as document all upcoming events where interested parties could find project participants from LIGHTest and listen to their latest presentations.

In relation to social media, we have focused efforts on Twitter and LinkedIn and where possible we send people back to the website to encourage interaction with the project. Social media is an excellent platform to reach a large global audience that may be difficult to get hold of through other means. It allows us to reach out and follow hashtags around events that we're presenting at. Our tweets and LinkedIn posts are focused on current LIGHTest news and this news is also retweeted from twitter accounts with over 3000 followers.

Website:

In YR2 there have been approx.1000 visits to the <https://lightest-community.org> website.

Twitter:

When we have appropriate news stories, public deliverables available or are speaking at events, we will post about these on Twitter and also the LIGHTest LinkedIn Group. These also get retweeted by partner accounts.

Statistics include:

- Over 300 followers (increase from 96 in first year)
- Over 44,000 tweet impressions from 80 tweets (7,748 from 20 tweets in first year)
- 724 engagements with the tweets which includes liking and re-tweeting
- 121 clicks on the links in the tweets which could be to news posts or back to the LIGHTest site itself
- 142 re-tweets

YouTube:

- LIGHTest introductory video – 32 views
- Panel at Economics of Identity OIX event (Rachelle speaking on LIGHTest) – 48 views
- LIGHTest business introduction – 35 views
- LIGHTest technical introduction – 28 views
- LIGHTest legal introduction – 25 views

LinkedIn:

- 45 members (27 at the end of the first year)
- Posts added over the year promoting all news and public deliverables

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11. List of Activities in YEAR2

In YEAR2, there have been 30 external activities in 14 countries across 3 continents. These activities comprised: 5 workshops, 5 panel discussions and 20 Presentations. Each presentation consisted of a description and explanation of the LIGHTest project and examples of use-cases. The panels and workshops explored the various project concepts in depth. Country and activity breakdowns are seen in Figure 8

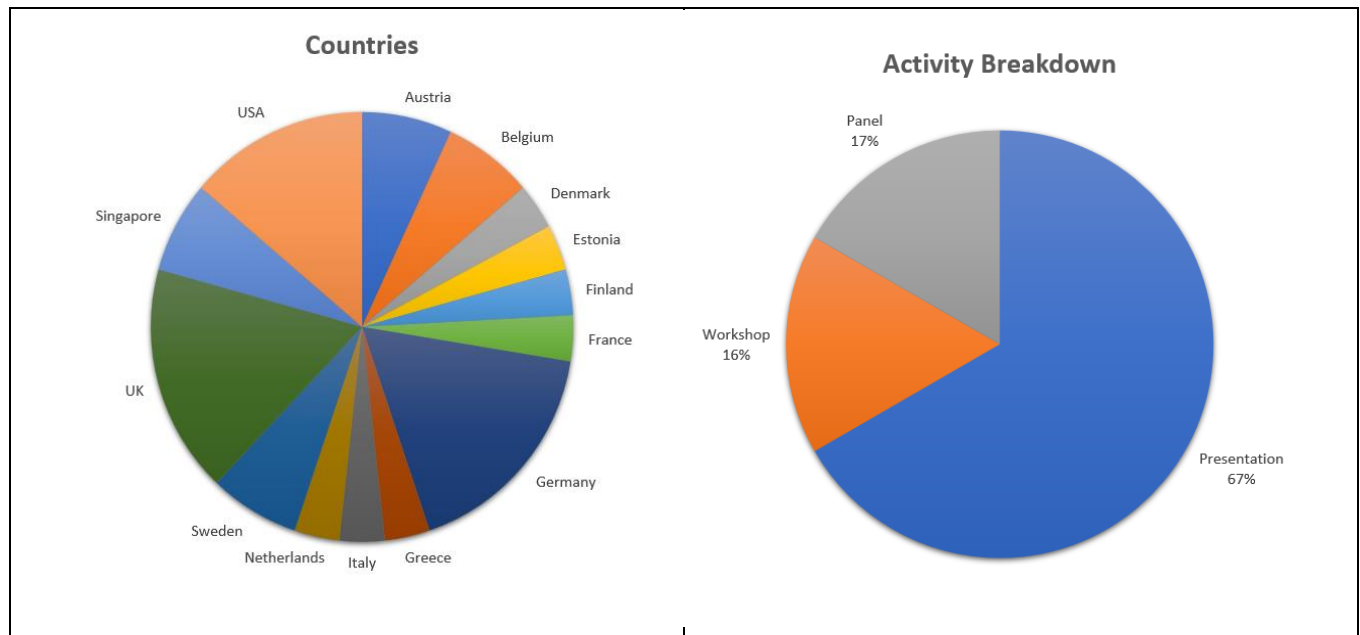


Figure 8

Dates	Partner	Attendee	Action	Type	Name	City	Country
31/08/2017	Ubisecure	Jesse Kurtto	Presentation	New Business from Cross-Enterprise Data (NBxED)	Workshop	Espoo	Finland
19/09/2017	FHG	Heiko Roßnagel	Presentation and Discussion	Workshop	4th EAB Research Projects Conference (EAB-RPC 2017)	Darmstadt	Germany
12-14/09/2017	OIX	Don Thibeau	Presentation	Conference	Federal Identity Forum & Exposition	Washington	USA
12-14/09/2017	All partners	Various	Presentation	General Meeting	Lightest General Meeting	Graz	Austria

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18-19/09/2017	FHG/EEMA /DTU/TUG	Heiko Rossnagel, Sebastian Modersheim, Georg Wagner, Jon Shamah	Presentations	Conference	EAB Research Projects Conference	Darmstadt	Germany
19/09/2017	Correos	Víctor Martín	Private meeting	Workshop	UN UPU (Universal Postal Union) .post Marketing Working Group	Online	
22-25/09/2017	EEMA	Jon Shamah	Presentation	Conference	World eID	Marseille	France
05-06/10/2017	EEMA/FHG/USTUTT	Multiple Partners	Presentations	Conference	Open Identity Summit 2017 (OID2017)	Karlstad	Sweden
17-19/10/2017	OIX	Don Thibeau	Presentation	Conference	IIW Fall	Mountain View	USA
25/10/2017	TLX	Hans Graux	Interview	LIGHTest Stream	Youtube Legal Channel	Online	Online
17/11/2017	OIX	Don Thibeau	Presentation	Conference	Economics of Identity III	London	UK
17/11/2017	TLX	Hans Graux	Panel Discussion	Conference	Economics of Identity III	London	UK
13-18/11/2017	NLNET	Martin Hoffmann	Discussion	Standardization Meeting	IETF 100	Singapore	Singapore
17/11/2017	USTUTT	Rachelle Sellung	Presentation and Panel Discussion	Conference	Economics of Identity III	London	UK
16/11/2017	FHG	Heiko Rossnagel	Presentation and Discussion	Workshop	UNHCR and ID2020 Workshop on leveraging digital identity opportunities for the benefit of refugees	Munich	Germany
29/08/2017-01/09/2017	USTUTT	Sven Wagner	Presentation and Discussion	Conference	12th International Conference on Availability, Reliability and Security	Reggio Calabria	Italy
Belgium	TUG / EEMA / USTUTT	Georg Wagner Jon Shamah Sven Wagner	Presentation and Discussion	Conference	Open Identity Summit	Karlstad	Sweden
14/11/2017	USTUTT	Rachelle Sellung	Chaired a Session on LIGHTest	LIGHTest Stream	Information Security Solutions Europe	Brussels	Belgium
13-15/11/2017	EEMA, Correos, FHG	Jon Shamah Victor Martin, Heiko Rossnagel.	Presentation and Discussion	Workshop	19th Information Security Solutions Europe (ISSE 2017)	Brussels	Belgium
13-14/12/2017	OIX	Don Thibeau	Presentation	Conference	Consumer Identity World APAC	Singapore	Singapore
30/01/2018	EEMA	Jon Shamah	Chair	Webinar	The Disruptive power of eIDAS	Online	Online
31/01/2018	EEMA	Jon Shamah	Presentation	Conference	RECRED H2020 project clustering event	Athens	Greece

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13/02/2018	FHG/USTU TT/DTU	Heiko Rossnagel, Rachelle Sellung, Sven Wagner, Sebastian Mödersheim	Presentation and Discussion	Meeting	UNHCR	Copenhagen	Denmark
28- 30/03/2018	EEMA	Jon Shamah, Esther Mackay (ABM)	Discussions	Conference	ID-Next	Utrecht	Netherlands
26- 28/02/2018	USTUTT	Sven Wagner	Presentation and Discussion		38th GIL Annual Meeting	Kiel	Germany
18/03/2018	OIX	Don Thibeau	Presentation	Conference	IETF Meeting	London	UK
19/03/2018	ALL	All	Presentation	Forum	International Lightest Forum Meeting	London	UK
26- 28/03/2018	OIX	Don Thibeau	Panel	Conference	KNOW Identity Conference	Washington	USA
15- 18/05/2018	OIX	Don Thibeau	Presentation	Conference	EIC	Munich	Germany
28- 31/05/2018	EEMA	Jon Shamah	Panel	Conference	EU Eastern Partnership e- Governance Conference	Tallinn	Estonia
23- 24/06/2018	EEMA	Jon Shamah	LIGHTest Track	Conference	EEMA Trusted Digital Transformation	London	UK
27- 28/06/2018	TUG	Peter Lipp, Olamide Omolola and Georg Wagner.	Paper: "Facing Identity Fraud: automating trust decisions on a global scale via DNS"	Conference	"In ICT we Trust"	Graz	Austria
25- 27/07/2018	EEMA/OIX/ USTUTT	Jon Shamah/Rach el Sellung/Don Thibeau	IETF Presentation and Panel	Conference	Identiverse	Boston	USA
27- 28/08/2018	EEMA	Jon Shamah	Presentation	Conference	Ares	Hamburg	Germany

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12.Example Conference Reports

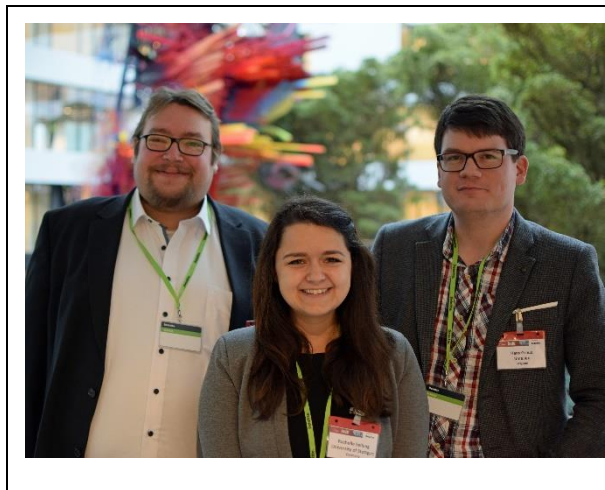
Dedicated LIGHT^{est} track at ISSE 2017 conference

In November 2017, LIGHT^{est} was invited to present a dedicated track at the EEMA organised ISSE conference in Brussels – a two-day event focusing on European public and private trust related to cybersecurity, privacy, identity and Cloud. The event was hosted by Deloitte at its prestigious new offices adjacent to Brussels Airport.

ISSE represented the perfect opportunity for the LIGHT^{est} team to network with and present the project to more than 200 delegates representing governments, industry and academics from across the EU and the broader international community.

LIGHT^{est} took its place on an exceptionally high-calibre ISSE conference programme alongside speakers that included Philippe De Backer, Belgian Secretary of State for Privacy, Markus Kaiser, CEO, Federal Computing Centre of Austria (BRZ) and Jakub Boratyński, Head of Cybersecurity & Digital Privacy Unit, DG Connect.

On day-two of the conference, Rachele Sellung (USTUTT) chaired a well-attended and positively received hour-long LIGHT^{est} track session, alongside project team members Hans Graux (time.lex) and Heiko Roßnagel (FHG). The theme of the session was: “Mixing old and new in the LIGHT^{est} project: how can the Domain Name System support current day identification and trust services?”.



Identiverse Conference in Boston

Identiverse attracts around 2,000 delegates who are interested in digital identity, over four days and 200 sessions. Attendees will come from many different sectors but include CTOs, IAM directors and architects and software security. This huge yearly event attracts all the biggest and best from the identity industry to share the tools, technology and best practices that are built for today and the

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future. The idea being to realise the full potential of a digital economy – one where identity unlocks uncompromising digital experiences that are secure and seamless.

LIGHTest ran a 'Lunch & Learn' session at Identiverse with Rachele Sellung (USTUTT), Tim Reiniger (Reiniger LLC), Don Thibeau (OIX) and Jon Shamah (EEMA). This session introduced LIGHTest and covered some of the use cases that could be adopted. From a legal standpoint, Tim looked at how LIGHTest complies with GDPR as LIGHTest does not process personal data via the DNS. He talked about how the LIGHTest project will support the eIDAS trust framework by providing the ability for validation and trust translation for non-qualified electronic signatures, trust seals and other trust services. It was asked during the session if LIGHTest can be used by parties relying on digital identity credentials to validate credentials and verify identity attributes. Tim spoke about how this could turn out to be the most important use/deployment of LIGHTest.

EU Eastern Partnership e-Governance Conference

Leading e-Governance experts, decision makers, donors and civil society groups met in Tallinn, Estonia to discuss the challenges and issues states face when engaging digital citizens.

Foremost amongst these was the issues were the challenges surrounding cross-border communications and how civil society could trust the digital domain, especially in developing countries. There were additional discussions surrounding the extension and transparency of interactions between the EU and Eastern Partnership countries.

Jon Shamah took part in a highlighted panel discussion on this topic and how trust could be recognised and extended. LIGHTest was fully described and discussed as part of this and ongoing informal discussions during the conference period, with members of the Eastern Partnership Governments and also representatives of the EU.

UNHCR

In 2017, UNHCR contacted the LIGHTest consortium to discuss a digitalization of the German government funded DAFI refugee scholarship programme (www.unhcr.org/en-us/dafi-scholarships.html) as a use case of the LIGHTest project. These discussions are ongoing and agnostic as far as technological solutions are concerned. They resulted in a number of workshops and consultations to reach a greater understanding of the challenges UNHCR is facing and how the expertise and experience of both LIGHTest and Fraunhofer IAO could be brought to bear so as to assist UNHCR.

The LIGHTest consortium is currently in the process of first developing a Scenario Definition and Development of a UNHCR trust scheme proof of concept by the end of year 2 and start of year 3. Further, the LIGHTest team plans on creating a proof-of-concept demonstrator and to set up an idea of how a LIGHTest demonstrator for this use case could be by the end of the project.

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13. Partner Reports

Many partners will not have commenced specific dissemination activities as the related Work Packages may have started later in YEAR1. We expect dissemination from all partners within YEAR2 and YR3.

FHG

Fraunhofer has attended 6 events in year two. There has been three presentations and discussions at conferences in Germany, which include the EAB Research Projects conference and the 19th Information Security Solutions Europe. Further, Fraunhofer has taken the lead initiative of bringing use case to life, through dissemination activities and has held workshops with the UNHCR on working together on a LIGHTest demonstrator. Further, FHG has created a short explanation video on LIGHTest to help people of all different backgrounds to be introduced to LIGHTest.

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 YEAR2. The aim of EEMA's own dissemination activities continues to be 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 two remote entities operating within different Trust Schemes. EEMA itself attended and contributed to over 15 events (some reported in the above table). LIGHTest was represented at EEMA's own Annual Conference in London and ISSE 2017 in Brussels. In EEMA's wider role in Europe as a leading Not-for-Profit Think-Tank, 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.

By the beginning of YEAR2 EEMA had overcome the legal obstacles to LIGHTest Advisory Board formation and during YEAR2 Members of the Advisory Board expanded its number to 10 consisting of eminent names involved in Trust and eCommerce activities from both public and private sector, from the USA, Europe and Asia.

EEMA has also participated with ATOS, OIX, NLnet and FHG in scoping the exploitation plans for LIGHTest into the future

USTUTT

The University of Stuttgart has been very active in their dissemination activities. The University of Stuttgart has assisted EEMA and OIX in establishing the tri-channel approach that has been implemented in year two. With that, they have assisted in creating content with the dissemination team. As they are working together closely in the WP10 and exploitation side of the project, they are

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assisting in making sure that WP11 and WP10 are complimenting one another with the exploitation and dissemination aspects. One way of doing this has been in the establishment of the International Forum, which takes advantage of outside of the project experts to gain stakeholder insight and perspective alongside of the project. USTUTT has led 2 International Forums in year two and plan to have more in year 3. USTUTT chaired the International Forum in London, which was well received and had focused on the technical aspects of LIGHTest. This is in addition to participating in numerous presentations and panel discussions over Europe and the USA.

OIX

OIX have been running the social media efforts which has ramped up and we ensure all new content is tweeted and posted in LinkedIn and encourage engagement on social media platforms. The website is regularly updated with all the latest events and news which comes from the newsletters as well as promoting all the latest public deliverables.

OIX have helped to develop and co-ordinate the LIGHTest International Forum, running 3 sessions so far of the project, with more planned for this year in APAC.

We send out newsletters to all OIX members and newsletter subscribers, a global community, every three months which includes an update on LIGHTest and how the project is progressing as well as encouraging our members to join the International Forum.

In year 2 we launched a whitepaper which brought together some of the research which was undertaken for WP2.2. The whitepaper is titled: A global inventory of trust lists, trust schemes and trust frameworks. This was promoted to our contact list as well as promoted across all OIX social media channels. The website has had 75 hits to the page since it was launched.

As LIGHTest is a complex project, we piloted individual digital flyers for the Business, Legal and Technical aspects of LIGHTest, these outward facing materials have been useful to support the speaking events that OIX has presented LIGHTest at, and also supported the partners events and internal communications about the project

Don Thibeau has also presented globally at a number of events throughout the year, promoting LIGHTest and the project goals. These include IIW Fall and Consumer Identity World APAC. OIX also ran their annual one-day event titled Economics of Identity, where LIGHTest had a place on a panel session with around 180 delegates.

Video's are a simple way to communicate that everyone can easily watch and understand. OIX have instigated three videos to communicate the Business, Legal and Technical aspects of LIGHTest for all partners to use, and for the community website.

ATOS

In the scope of the second year's activities, from August 2017 to date (August 2018), Atos have continued carrying out several dissemination activities including the following:

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Following normal routine for H2020 projects, Atos Communication Department sent the official LIGHTest press release produced in the consortium to its corporative media agency and it was shared among different media. There is a weekly newsletter from Atos, where LIGHTest Press Release has also been published.

In addition, the Atos Research & Innovation department has conducted via streaming an internal webinar with all the activities of the department, focusing in current projects of Trust services like LIGHTest, with an audience around 120 people.

Atos also has promoted LIGHTest in the ARI Booklet 2017, Atos Research & Innovation annual overview of all research and innovation projects which is a corporate tool which collect our portfolio of projects. This booklet has been launched at the beginning of 2018 and LIGHTest is presented as one of the key projects of the Privacy&Identity lab of the company (page 41).

http://booklet.atosresearch.eu/sites/default/files/booklet/public/content-files/ARI_Booklet2017_vfinal.pdf

Atos have participated in all General Meetings and the first Review held during this Year 2 of the project, making a presentation of the activities and tasks in progress in order to increase the visibility of LIGHTest.

NLnetLabs

During year 2, NLnet Labs participated in a number of events.

In September 2017, NLnet Labs was scheduled to present at the ARES Conference in Reggio di Calabria as part of the CITE workshop together with Fraunhofer. Unfortunately, a last-minute illness made it necessary to cancel participation. Fraunhofer kindly held the presentation entitled 'DNS as the Foundation of the LIGHTest Infrastructure.' It gave an introduction into how LIGHTest uses the DNS to make discovery of trust-related information easy.

In November 2017, NLNET participated in the 100th meeting of the Internet Engineering Task Force (IETF) in Singapore. During the meeting, NLNET organized another gathering similar to those held at earlier IETFs giving an update on the architecture of the LIGHTest infrastructure and how it relates to the use of IETF protocols, in particular the DNS. In addition to this gathering, several impromptu hallway discussions evolved related to LIGHTest, its potential and use cases.

While IETF was meeting again in London in March 2018, OIX organized a meeting of the LIGHTest International Forum. This meeting focused on the technical track of the tri-channel approach. OIX, University of Stuttgart, and NLnet Labs presented the progress on the LIGHTest technical architecture to an audience of both members of the trust service industry and the Internet infrastructure industry. The presentation was followed by a lively and fruitful discussion.

Finally, NLnet Labs repeated its role to present the LIGHTest technical track during the EEMA Annual Conference in London in June 2017, presenting again together with University of Stuttgart. Similar to

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the earlier event, the technical focus was on the architecture of the LIGHTest infrastructure, outlining the potential of the LIGHTest in a globally connected world.

G+D

Dissemination activities at G+D focused very much on market-related activities in the last year, since most of the components developed in WP 7 have a high relevance for current and upcoming markets. Especially the linking of identification and mobile authentication (preferably using biometrics) is a relevant challenge for most of G+D customers in the financial industries and telecommunication customer segment. Mainly these segments are strongly regulated, requesting a KYC procedure from banks and Mobile Network Operators. Since both segments currently fully digitize their processes, a comprehensive solution that can address both, identification and strong authentication is widely requested and needed. With the advent of eIDAS-related services (like digital signatures), the question of LoA determination and propagation also rises in relevance.

As a consequence, the main dissemination channel during the last year were direct customer talks and presentations. Components developed within the LIGHTest project are not yet ready for commercial exploitation, but in discussions about roadmap topics and future market requirements the LIGHTest concept was addressed regularly. Since G+D is globally active in many markets, these discussions and presentations have not only taken place in Europe, but in other world regions as well. The non-European regions include Australia as well as the Middle East and North America. Feedback received from customers during these discussions on the other hand provides valuable input for future LIGHTest developments.

Another important dissemination channel in this context were trade shows, where LIGHTest-like use cases addressing the linkage of identity and authentication were presented. In a simple demo app an onboarding flow based on the LIGHTest flow concept was shown which is able to fully automate onboarding and cryptographically link identity data with authentication credentials. As a smaller deviation from the latest LIGHTest concept the ID provider was a local one in this case, which can add further user convenience for applications where a strict eIDAS-based LoA is not (yet) required. The demo application mainly addressed financial industries customers but is transferable to other markets as well. The most important trade shows where this application was shown were the Mobile World Congress in Barcelona in February 2018 and the Money 2020 trade show in Amsterdam in June 2018. G+D had an own exhibition booth at both events with dedicated demo stations where this demo was shown.

Other activities include a smaller trade show in the Middle East and several customer roadshows in dedicated countries around the world.

TUG

We are proud to report that the paper “Harmonizing Delegation Data Formats” has been successfully presented at the Open Identity Summit 17 in Karlstad, Sweden. The paper covers how different delegation data formats can be unified in a way, that they can be used for multiple purposes, instead

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of just a single purpose. Georg presented the paper in Karlstad at the Open Identity Summit 17 in Karlstad, Sweden on October 4th and October 5th.

During the conference organized by the European Association for Biometrics with focus on European research projects, the EAB RPC, we had a talk about “Representing Delegations in the Domain Name System”. This talk explained the details of the Domain Name System and the security extensions, which are necessary for a secure communication.

Within the further activities, we had a talk at the “In ICT we trust” conference in Graz, Austria on June 27th and June 28th about the topic “Facing Identity Fraud: automating trust decisions on a global scale via DNS”. The talk covers the project description and gives an overview about the problem of automating trust decisions on a global scale. In this talk we provide the information about the LIGHTest architecture and our solution to the problem of automating trust decisions.

We are also proud to report that we were able to get two papers accepted at the 13th International IFIP Summer School on Privacy and Identity Management. The first paper is “LIGHTest Delegations” written by Georg and explains the process of how delegations are handled within the LIGHTest infrastructure. It also gives insight on the design decisions made within the delegations. The second paper is “Revisiting User Privacy and Certificate Transparency”, by Olamide et al., which gives insight on certificate transparency as well as the user privacy behind it. The summer school takes place from August 20th until August 24th in Vienna. Both publications are yet to appear.

During 2018, Stefan was able to finish his master thesis with the title “LIGHTest - Towards automating global Academic Mobility”. His thesis is used as a prototype for LIGHTest features. He implemented a smaller version of LIGHTest, specially designed for the user case of academic mobility. Stefan successfully defended his thesis this year in front of a committee to achieve his MSc.

Correos

Correos attended the UN UPU (Universal Postal Union) .post - Marketing Working Group meeting on 19/09/2017 and Victor Martin made a high level presentation on LIGHTest. Correos also attended the 19th Information Security Solutions Europe (ISSE 2017) workshop and LIGHTest Work track.

Correos issued an internal and external press release on 19/03/2018 in Spain in La Comarca de Puertollano [\[1\]](#), and Mercado Industrial [\[2\]](#) publications with an internal readership of ~50k & to several local and national newspapers.

Time.lex

Time.lex has contributed to the dissemination of LIGHTest outcomes through various channels, including contributions to the Tri-Channel presentations, through a video presentation, through LIGHTest newsletters, and via various events and conferences, both inside and outside of LIGHTest.

With respect to the Tri-Channel presentations, Time.lex (as the partner in charge of the legal channel) provided contributions to the Legal Perspective pamphlet series, entitled “Breaking New Ground in Cross-Border Trust Agreements”. This series provided a compact and highly accessible summary of

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some of the main legal findings of the LIGHTest project, intended to provide focused critical messages to any interested stakeholders.

As a complement to the Tri-Channel approach, a series of videos was created which described and summarised LIGHTest for a broader audience. This included a legal video for which Time.lex provided the content, which is available at <https://www.youtube.com/watch?v=MU6mYe8DOGQ>. The style and content of the video was created with the objective of being accessible to non-specialists as well; it does not require prior familiarity with the LIGHTest project, nor a detailed understanding of EU legislation on trust services or e-commerce.

Time.lex also provided newsletter contributions, which were used as an opportunity to highlight non-obvious or added value opportunities for LIGHTest. By way of example, in the wake of the entry into force of the General Data Protection Regulation (the EU's new privacy legislation) on 25 May 2018, Time.lex produced a newsletter on "LIGHTest and the principle of privacy by design: how technological innovation can make you safer". Rather than merely communication on deliverables or activities, this contribution described how LIGHTest can actively protect the personal data of citizens. Smaller and more formal reports on LIGHTest legal activities and outcomes were also periodically provided.

Finally, Time.lex also participated in a series of events in which LIGHTest outcomes were presented, as listed elsewhere in this document.

DTU

DTU has helped with the UNHCR collaboration with LIGHTest. They attended the Workshop in Denmark and are helping with the development of a UNHCR trust Scheme.

TUBITAK

Within the second year of the project, the focus of TUBITAK's activities was on achieving the objectives of the work package WP8 – Integration and Testing. This work package kick started at the end of Year 1, and the first activities involved setting up the technical infrastructure necessary for testing and integration activities in collaboration with TUG, such as source code repositories, version control and continuous integration tools.

Regarding the dissemination activities, TUBITAK was present on the EEMA Annual conference on Trusted Digital Transformation in London during 13-14 June, 2018, which included a dedicated LIGHT^{est} Track. TUBITAK and its Testing Tool Minder were also focus of one of the articles of the LIGHTest newsletters. There were no other dissemination activities in YEAR2.

UbiSecure

UbiSecure attended the New Business from Cross-Enterprise Data (NBxED) workshop on 31/08/2017. The NBxED project tackles a key issue restricting the applications of Industrial Internet in creating new customer value and business opportunities for industrial enterprises: the business and technical bottlenecks for sharing and utilizing product design, operations, and maintenance data across company borders.

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14. 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

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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.

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