Results

Project information

MAMI

Grant agreement ID: 688421

Project website

Status
Closed project

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1 January 2016

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31 December 2018

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€ 2 901 500

EU contribution
€ 1 629 125

Coordinated by:
EIDGENOESSISCHE TECHNISCHE HOCHSCHULE ZUERICH
Switzerland

Deliverables

Documents, reports (11)

Use Cases and Requirements
This deliverable will document the final outcome of Task 3.1 by describing the use cases in more detail, including the technical mechanisms to be used and the resulting challenges that arise, to derive requirement for the protocol design of the MCP as well as other protocol extensions needed to support the deployment of the MCP. (Public)

Middlebox Classification and Initial Model
This deliverable will describe a classification of the middlebox behavior that was observed in all measurements conducted until this point in time as final result of Task 2.1 and an initial model for the most common observed behaviors as developed in Task 2.1. (Public)

Measurements Tools, Middlebox Observatory, and Data Model
This deliverable will describe the data model developed in and used by Task 1.4, including documentation on how external researchers can access and use the data in our
observatory, as well as how they can contribute additional measurements. (Public)

**Final Middlebox Model, Experimentation and Evaluation Report**
This deliverable will describe the final middlebox model as refined in Task 2.2 that was used for experimentation and evaluation. Further evaluation results based on experiments of Tasks 2.3 and 2.4 to evaluate the applicability to the use cases as well as and initial deployment study will be presented and discussed. (Public)

**Initial Report on Measurement Development and Deployment**
This deliverable will (a) describe the measurement techniques used within WP1, including new techniques developed within the scope of the project in Task 1.1; (b) describe the deployment and results of measurements within Task 1.2; and (c) summarise results of data collected during the first year of the project. (Public)

**Data Management Plan**
This deliverable will detail the project’s plan for managing the data generated by measurements and open access to that data under Task 4.6. (Public)

**MCP and Flexible Stack Implementation Report**
This deliverable will report work done to complete the implementation as well as testing of the MCP in Task 3.4 and other protocol extensions developed in Task 3.3 that together provide a flexible transport stack to provide connectivity and resolve the ossification of the Internet by enabling the deployment of new services. Further, it provide a thread and trust analysis for the developed protocols and mechanisms performed in Task 3.5. This deliverable includes a final open-source release of the MCP reference implementation for endpoints and middleboxes. (Public)

**Initial Standardisation, Dissemination, and Exploitation Report**
This deliverable will summarise the first achievements about standardisation, dissemination, and exploitation of MAMI results as performed in Tasks 4.1, 4.2, 4.3, 4.4 and 4.6. (Public)

**Intermediate Standardisation, Dissemination, and Exploitation Report**
This deliverable will summarise the intermediate achievements about standardisation, dissemination, and exploitation of MAMI results as performed in Tasks 4.1, 4.2, 4.3, 4.4 and 4.6. (Public)

**Middlebox Cooperation Protocol (MPC) Specification**
This deliverable will specify the MCP as developed in Task 3.2. (Public)

**Final Report on Measurement and Deployment**
This deliverable will update D1.1 by describing new techniques and tools for measurements and rapid deployment of these as developed in Task 1.1 in the final year and a half of the project, including a summary of deployment and findings from Task 1.3. (Public)

**Open Research Data Pilot (1)**

**Final Standardisation, Dissemination, and Exploitation Report**
This deliverable will give a detailed view about standardisation, dissemination, and exploitation of MAMI results including a list of all published papers, workshop reports, and achievements in standardisation as performed in Tasks 4.1, 4.2, 4.3, 4.4 and 4.6. (Public)

**Publications**

**Other (5)**

- **Analysis and Consideration on Management of Encrypted Traffic**
  **Author(s):** Pedro A. Aranda, Diego R. López, Thomas Fossati  
  **Published in:** 2018

- **Security and Privacy Implications of Middlebox Cooperation Protocols**
  **Author(s):** Thomas Fossati, Roman, Müntener, Stephan Neuhaus Brian Trammell  
  **Published in:** 2018

- **Using UDP for Internet Transport Evolution**
  **Author(s):** Edeline, Korian; Kühlewind, Mirja; Trammell, Brian; Aben, Emile; Donnet, Benoit  
  **Published in:** Issue 1, 2016

- **Challenges in Network Management of Encrypted Traffic**
  **Author(s):** Mirja Kühlewind, Brian Trammell, Tobias Bühler, Gorry Fairhurst, Vijay Gurbani  
  **Published in:** 2018

- **Tracking the Big NAT across Europe and the U.S**
  **Author(s):** Anna Maria Mandalari, Andra Lutu, Amogh Dhamdhere, Marcelo Bagnulo, KC Claffy  
  **Published in:** 2017

**Conference proceedings (2)**

- **An Observation-Based Middlebox Policy Taxonomy**
Author(s): Edeline, Korian; Donnet, Benoit
Published in: An Observation-Based Middlebox Policy Taxonomy, Issue 1, 2017

Measurement-based Protocol Design
Author(s): Gorry Fairhurst, Mirja Kühlewind, Diego Lopez
Published in: European Conference on Networks and Communications (EuCNC’2017), 2017
DOI: 10.3929/ethz-b-000314604

Peer reviewed articles (3)

Principles for Measurability in Protocol Design
Author(s): Mark Allman, Robert Beverly, Brian Trammell
Published in: ACM SIGCOMM Computer Communication Review, Issue 47/2, 2017, Page(s) 2-12, ISSN 0146-4833
DOI: 10.1145/3089262.3089264

Measuring ECN++: Good News for ++, Bad News for ECN over Mobile
Author(s): Anna Maria Mandalari, Andra Lutu, Bob Briscoe, Marcelo Bagnulo, Ozgu Alay
Published in: IEEE Communications Magazine, Issue 56/3, 2018, Page(s) 180-186, ISSN 0163-6804
DOI: 10.1109/MCOM.2018.1700739

Innovating Transport with QUIC: Design Approaches and Research Challenges
Author(s): Yong Cui, Tianxiang Li, Cong Liu, Xingwei Wang, Mirja Kühlewind
Published in: IEEE Internet Computing, Issue 21/2, 2017, Page(s) 72-76, ISSN 1089-7801
DOI: 10.1109/mic.2017.44

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