



WELCOME!!!

WELCOME TO THE FIRST EDITION OF MUSA NEWSLETTER

Project Details:

Duration

January 2015 – December 2017

Total Budget

€ 3.5M

EU Programme

ICT-07-2014 - Advanced Cloud Infrastructures and Services.
No. 644429. RIA - Research and Innovation action.

Participating Countries

Finland, France, Germany, Italy, Spain and United Kingdom.

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This newsletter is a publication of the MUSA project. It is published to provide information about the project activities and to also showcase the project achievements.

MUSA is funded by the European Union's Horizon 2020 research and innovation programme. It consists of seven partners from six countries, Spain, Finland, Italy, England, France and Germany.

The project is coordinated by TECNALIA Research & Innovation from Spain.

The project began in January 2015 with a kick-off meeting in Bilbao, Spain where all the partners met and the technical details, project timelines, milestones and project management strategies for achieving the project goals were discussed.

About MUSA

Nowadays, cloud computing is emerging as new business models are being created based on on-demand provisioning of IT resources.

However, the difficulty in evaluating the tradeoff between cloud benefits and the security risks therein has made companies reluctant in adopting cloud computing.

A major set-back to cloud adoption is security. To this end, MUSA aims to overcome this problem by ensuring security in all multi-cloud environments by

- Promoting security-by-design practices in application development.
- Monitoring application at runtime to mitigate security incidents.

MUSA aims to support the security-intelligent lifecycle management of distributed applications over heterogeneous cloud resources through a security framework that includes:

- Security-by-design mechanisms to allow application self-protection at runtime.
- Methods and tools for the integrated security assurance in both the engineering and operation of multi-cloud applications.

Objectives



Meetings

Since the official kick-off meeting held in Bilbao, Spain, two other meetings have been held.

The first meeting was the plenary meeting held in Barcelona, Spain in June 2015. The highlight of this meeting was work packages (WP) presentation, case studies presentation, security metrics and monitoring & enforcement.

The second meeting was the plenary/technical workshop held in Naples, Italy in September 2015. The highpoint was the application of Threat modeling and STRIDE methodology in the Lufthansa and Tampere case studies, with the aim of identifying the most important security issues that will be supported by MUSA in those case studies.



MUSA partners at kick-off meeting in Bilbao

Conferences



With the aim of promoting MUSA vision and objectives, MUSA has participated in the following conferences and workshops.

- **7th International Cybersecurity Forum (FIC 2015)**, 20-21 Jan, 2015. Lille, France. (Partner: Montimage)
- **Net Futures 2015**, 24-25 Mar, 2015, Brussels (Concertation meeting). (Partner: Tecnalía)
- **CLOSER 2015**, 24th May 2015, Lisbon. (Partner: Tecnalía)
- **DCA certification workshop**. Introduction of MUSA to Data Centre Alliance, 28th May 2015. (Partner: AIMES)
- **11th Tarot International Summer School on Training and Research on Testing**, 29th June -2nd July, 2015, Cadiz, Spain. (Partner: Montimage)
- **STAM-ARES 2015**, 24th Aug, Toulouse. (Partner: Tecnalía)
- **CloudWatch Cloud Standards Profile Workshop**, 24th Sep, Brussels. (Partner: Tecnalía)
- **SPC 2015 IEEE workshop on security and privacy in the cloud**, 30th Sep 2015, Florence, Italy. (Partners: Tecnalía & Montimage)
- **Data Protection Security and Privacy in the Cloud Cluster f2f meeting**, 7th Oct 2015, Pisa. (Partner: Tecnalía)
- **DCA Board Meeting**, 8th Oct 2015, London. (Partner: AIMES)
- **Privacy, Certification and SLA for dependable clouds**, Networking session at ICT Event 2015, 20-22 October, Lisbon. (Partners: Tecnalía, Montimage, CerICT)

Publications

With a view of disseminating the research results of the MUSA project, three publications have been made so far in 2015. The MUSA project has been able to present its first research results through these publications. They are:

- **Self-protecting multi-cloud applications**, SPC 2015, Florence. (Partner: Tecnalía & Montimage)
- **Towards self-protective multi-cloud applications**, CLOSER 2015, Lisbon. (Partner: Tecnalía)
- **Security in Cloud-based Cyber-physical Systems**, SecureSysComm 2015, Krakow. (Partner: Tampere University of Technology)



Case Studies

In order to demonstrate how the MUSA framework supports security-intelligent lifecycle management of distributed applications over heterogeneous cloud resources, two case studies shall be implemented; one in Germany and the other in Finland. These are Airline flight scheduling by Lufthansa Systems and Smart mobility in Tampere city by Tampere University of Technology. Works are currently ongoing in both case studies so as to be able to demonstrate the solution proposed by MUSA.

Case Study 1 - Airline flight scheduling



This case study is anchored by Lufthansa Systems, Germany. In this case study, MUSA will provide data confidentiality and localization in a cloud application which is used nowadays by 55 airlines around the world.

Case Study 2 - Smart mobility in Tampere City



This case study is anchored by Tampere University of Technology (TUT), Finland. In this case study, MUSA will facilitate the deployment of privacy and data protection in an open data based cloud application that optimizes urban travel experience. TUT shall be developing a smart mobility application called Tampere Smart Mobility (TSM) application.

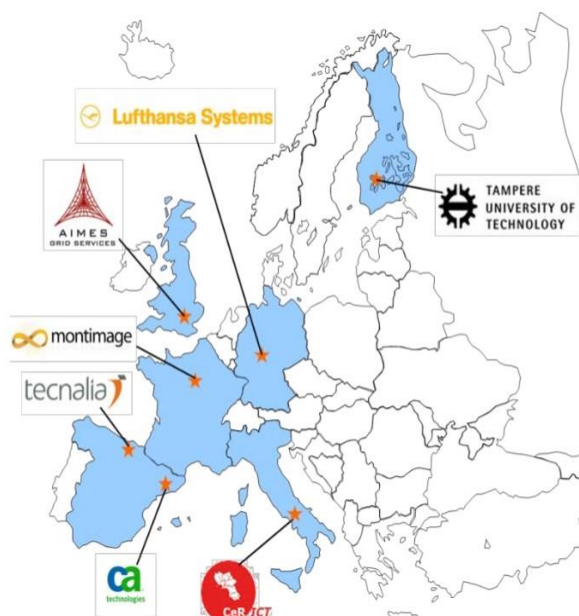
Upcoming Events

As part of the networking and collaboration activities with other EU-funded research projects in the Data Protection Security and Privacy in the Cloud Cluster, MUSA will co-organize the First Workshop of the Data Protection Security and Privacy in the Cloud Cluster.

This event will be held on the 23rd of February 2016 in Naples, Italy. More information on the event will be provided in next issues

Other upcoming events:

- Plenary meeting in Paris, France in January 2016.



Consortium & Contacts

The MUSA project is coordinated by TECNALIA Research & Innovation who are based in Spain.

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