



MULTI-cloud Security Applications

Deliverable title	Deliverable ID: D6.1
	Preparation date: 30/04/2015
	Editor/Lead beneficiary (name/partner): Andrei Lobov / TUT
	Internally reviewed by (name/partner): Antonio M. Ortiz/Montimage Eider Iturbe/TECNALIA Antony Shimmin/AIMES

MUSA brochure and public website

Abstract:

Deliverable D6.1 *MUSA brochure and public website* refers to the materials that contain at this stage basic information about the project: the project website and the brochure. The website will be extended with the project results and related events. The brochure will be printed and used as first dissemination material during fairs, conferences, workshops and similar events dedicated to the MUSA project or covering similar subjects.

Dissemination level

PU	Public	X
CO	Confidential, only for members of the consortium and the Commission Services	



This project has received funding from the *European Union's Horizon 2020 research and innovation programme* under grant agreement No 644429

MUSA consortium



Fundación Tecnalía Research & Innovation
(TECNALIA, Spain)
www.tecnalia.com/en

Project manager: Erkuden Rios
erkuden.rios@tecnalia.com
+34 664 100 348



Centro Regionale Information e Communication Technology
(CER ICT, Italy)

Contact: Massimiliano Rak
massimiliano.rak@unina2.it



CA Technologies Development Spain SAU
(CA, Spain)

Contact: Victor Munes
Victor.Munes@ca.com



Montimage
(MI, France)

Contact: Edgardo Montes de Oca
edgardo.montesdeoca@montimage.com



AIMES Grid Services
(AIMES, UK)

Contact: Prof Dennis Kehoe
dennis.kehoe@aimes.net



Lufthansa Systems
(LSY, Germany)

Contact: Dirk Muthig
dirk.muthig@lhsystems.com



TTY-säätiö
(TUT, Finland)

Contact: José Luis Martínez Lastra
jose.lastra@tut.fi



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Executive summary

This deliverable presents the face of the project in the form of Internet website and project brochure. These are to be used for two major dissemination channels that are the Internet and project dissemination events, respectively. At this early stage of the project, the website and brochure will help in the dissemination of MUSA project intended results.

In general both the brochure and the website aim to grasp an attention of potential experts, technology providers and end users and help them in a short time to make a decision if MUSA project can be useful for them.



1 Introduction

1.1 Structure of this document

Besides this introductory Section 1, the document contains two sections each dedicated to a part of D6.1. The project brochure is shown in Section 2, while Section 3 describes the project web site.

1.2 Relationships with other deliverables

This is a first deliverable of the project building a face of the project. It refers to two elements – website to present the project via the Internet and brochure to be printed and offered to attendees during various dissemination events. The deliverable does not have any direct relationship with other deliverables besides the fact that some of MUSA project results and public deliverables will be published on the website.

1.3 Contributors

All the partners have contributed to this deliverable by providing inputs for the project brochure and the website.

1.4 Revision History

Version	Date issued	Author	Organisation	Description
0.1	16/03/2015	Andrei Lobov	TUT	First website is online
0.2	17/04/2015	Luis Gonzalez	TUT	First brochure is ready
0.3	24/04/2015	All	All	Partners send feedback on brochure
1.0	27/04/2015	Andrei Lobov	TUT	Deliverable document is compiled
1.1	29/04/2015	Andrei Lobov	TUT	Review comments processed and integrated (Antonio M. Ortiz/Montimage, Eider Iturbe/TECNALIA and Antony Shimmin/AIMES)
1.2	30/04/2015	Andrei Lobov	TUT	Final revised.
1.3	30/04/2015	Erkuden Rios	Tecnalia	Final released – with EU emblem in document cover.

2 Brochure

Figure 1 shows the project brochure. The brochure is a two-sided A4 document that can be presented in three-fold bent form. The brochure contains project details including main goals, benefits, use case references, and contact information.

Benefits

- Increase quality of user experience and trust in clouds
- Simplify the overall process of integrating security in clouds
- Promote the use of clouds in industry by boosting its security

Real Case Studies

Airline flight scheduling by Lufthansa Systems

MUSA will provide data confidentiality and localization in a cloud application which is used nowadays by 55 airlines around the world.

Smart mobility in Tampere City

MUSA will facilitate the deployment of privacy and data protection in an open data-based cloud application that optimizes urban travel experience.

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CE R I C T

montimage

TAMPERE UNIVERSITY OF TECHNOLOGY

Lufthansa Systems

MUSA

Multi-cloud Secure Applications

Framework to support the security-intelligent lifecycle of distributed cloud applications

In a nutshell

MUSA aims to support the security-intelligent lifecycle management of distributed applications over heterogeneous cloud resources.

MUSA security framework 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

Context

Companies are reluctant to adopt cloud computing because of the difficulty in evaluating the trade-off between cloud benefits and the additional security risks and privacy issues it may bring.

Secure cloud environments are even more challenging today due to the increase of heterogeneous cloud ecosystems. The most challenging applications in this type of ecosystems are those that are able to maximise the benefits of the combination of the cloud resources in use: multi-cloud applications. A multi-cloud application is a distributed application over heterogeneous cloud resources whose components are deployed in different cloud service providers and still they all work in an integrated way and transparently for the end-user.

Main results

- Enable the security aware design of distributed applications over heterogeneous cloud resources.
- Automatic distributed deployment based on discovery and decision support system of combinations of cloud services that best match the required balance between security and functional properties.
- Security assurance through continuous monitoring and integrated methods in both engineering and operation of multi-cloud applications.
- Monitoring, enforcement and notification support services combined with security libraries embedded on the distributed components.

MUSA IDE

Design

- QoS & QoSec Composed SLA
- Cloud resource modelling

Development

- Embedded libraries to ensure security at runtime

MUSA Decision support tool

- Cloud resource categorization

MUSA Distributed deployment tool

MUSA Security assurance platform (SaaS)

- Monitoring, enforcement and notification services

Application development team

Application operation team

www.musa-project.eu

From January 1st 2015 to December 31st 2017

Budget: €3.5M

Contact

Project Coordinator: Erkuden Rios (Tecnelia Research & Innovation)

erkuden.rios@tecnelia.com

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Figure 1 MUSA brochure (two sides)



3 Website

MUSA project website address is www.musa-project.eu [1]. The website is built using WordPress, as simple and widely known environment. Editors were selected among consortium partners to maintain the page.

The page has at this moment has 6 main sections:

- About MUSA – contains general information about the project.
- The Concept of MUSA – defines a vision for main project results.
- MUSA results – this section should be updated during the project time to include project achievements (e.g. public deliverables, tools, prototypes, publications...).
- News & Events – this section is updated with information on related project events and/or project news.
- Consortium – lists the project partners.
- Contact – presents contact details (project coordinator) for the project.

The screenshot shows the MUSA project website homepage. The browser address bar displays "musa-project.eu". The page layout includes a navigation menu on the left with the following items: "About MUSA", "The Concept of MUSA", "MUSA results", "News & Events", "Consortium", and "Contact". The main content area is divided into three columns. The top left column features the MUSA logo and the title "MUSA – MULTI-cloud Secure Applications". The top right column contains text stating: "This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 644429", accompanied by the European Union flag. The middle section features a large diagram titled "The Concept of MUSA" illustrating a multi-cloud architecture. The diagram shows components like "MUSA IDE", "MUSA Decision support tool", "MUSA Distributed development tool", "MUSA Security assurance platform (SaaS)", and various cloud providers (Amazon, Google App Engine, Azure, Private Cloud). The bottom right section is titled "MUSA at Net Futures 2015" and includes a "Continue reading" link.

Figure 2 Website appearance (April 2015)

In addition to the main menu sections shown on the left, the page can contain posts, which are highlighted once user enters the root of the page (musa-project.eu). This feature allows keeping on top and visible most relevant information for a given moment.

As the website is a major dissemination channel of the project, the content is expected to be updated along the project lifetime to maximise the impact of the results as they progress.



References

- [1] MUSA H2020 Project, Multi-cloud Secure Applications. 2015-2017. Available at: www.musa-project.eu

