



Complete Dynamic Multi-cloud Application Management

Project no. 644925

Innovation Action

Co-funded by the Horizon 2020 Framework Programme of the European Union



Call identifier: H2020-ICT-2014-1

Topic: ICT-07-2014 – Advanced Cloud Infrastructures and Services

Start date of project: January 1st, 2015 (36 months duration)

Deliverable D2.3 Updated Dissemination and Communication Plan

Due date: 30/11/2015

Submission date: 30/11/2015

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Dissemination Level

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- | | |
|-------------------------------------|---|
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Change history

Version	Date	Partners	Description/Comments
0.1	12/10/2015	UVA	Initial version and placeholders for data collection
0.2	23/11/2015	UVA	First full version for internal review
0.3	27/11/2015	UvA	Final draft
0.4	30/11/2015	UvA	Final version
VFinal	30/11/2015	IRT	Final version submitted

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Executive Summary

Effective dissemination and communication activities are especially important for the CYCLONE project as an Innovation Action to ensure adoption of the project developments and products during and after the project duration.

CYCLONE Dissemination and Communication Plan (DCP) has been delivered in M3 and has outlined all the major activities to make aware main target communities about the CYCLONE project, its activities and technologies. The DCP describes channels, mechanisms and activities to deliver the main project messages to different target groups identified by the project.

This update provides information about changes and forthcoming activities by the project to improve dissemination and communication activities, including publications, events organisation and attendance. These updates are based on existing partner network and involvement into research and professional community activity, with focus on more effective exploitation of the project results.

Information presented in this document is based on analysis of past activities, their effectiveness, and presents new planned activities, responding to new technology trends, suggestions from developer communities and demands from target user groups.

1. Introduction

The CYCLONE project aims to provide integrated service deployment and management platforms for application service providers and individual cloud based services developers, to simplify development, deployment and test of services and applications. The project targets integrating services from multiple providers and working with different stakeholders and user communities.

Effective dissemination and communication activities are especially important for the CYCLONE project as an Innovation Action to ensure adoption of the project developments and products during and after the project duration.

CYCLONE Dissemination and Communication Plan (DCP) has been delivered in M3 and has outlined all the major activities to make aware main target communities about the CYCLONE project, its activities and technologies. The DCP describes channels, mechanisms and activities to deliver the main project messages to different target groups identified by the project.

This update provides additional information about changes and forthcoming activities by the project to improve dissemination and communication activities, including publications, events organisation and attendance, which is based on existing partner network and involvement into research and professional community activity, with focus on more effective exploitation of the project results.

The deliverable provides short analysis of the past activities, their effectiveness and lessons learned. The presented updates includes new planned activities, responding to new technology trends, suggestions from developer communities and demands from target user groups.

This document has the same high-level structure as the original D2.2 Dissemination and Communication Plan to allow easier linking of the proposed changes and updates with the original activities that remain in general not changed.

2. General Strategy Implementation and Update

This chapter provides short analysis of the general DCP strategy based on the experience of the first 11 month of the project development and provide minor suggestions for improvement for the period of 2016-2017. This section does not provide a report on DCP activities which will be detailed in the next WP2 deliverable D2.4 due at M12.

This chapter complements and updates the corresponding Chapter 2 in deliverable D2.2 for what concerns DCP strategy adopted by the project and project objectives.

2.1. Dissemination and communication strategy in Y1

The project has followed the DCP strategy presented in the D2.2 deliverable and – at this stage – no need to change it significantly emerged. Minor changes and extensions are presented along all this documents as a result of first year activities analysis.

Although the CYCLONE Dissemination and Communication Plan has been delivered in M3, the actual activity started from the very beginning of the project by using partner network and starting working with target communities and stakeholders. The project benefitted from the wide partner networks and multiple channels used by partners. This integration between the project network and partner networks will continue as project evolves and delivers first exploitable results.

2.2. Branding, co-branding, exploitation and communication channels

The importance of well-defined branding strategy for effective dissemination and communication activity and building a consistent image of the project has been recognized in the project DoA and realised at the early stage of the project development by delivering D2.1 Branding Strategy as early as in M2 (see deliverable D2.1).

This allowed to build continuous and consistent dissemination activity starting from the first events where the project took part, such as Intercloud2016 Workshop in early March 2015, EGI Conference 2015 in May 2015 and TNC15 in June 2015 (see Appendix A for the list of events in 2015 and corresponding publications).

Co-branding strategy is especially important for such project as CYCLONE that builds the novel platform by integrating a number of components contributed by the project partners, but without supplanting the identity, utility, or existing communities of the individual components. Co-branding will also provide a basis future CYCLONE results exploitation by partners after the project ends.

Detailed exploitation plan by partners can be found in the CYCLONE DOA document that explains what specific exploitation actions were planned by partners using their own networks. Results of dissemination and exploitation activities will be reported yearly together with updated planning for next period.

2.3. Maintaining Key Performance Indicators (KPI)

The WP2 dissemination activity will maintain a number of KPI that include but not limited to the following:

- Number of unique visitors to the CYCLONE online presence per week (ref KPI-8.1 in DoA)
- Number of news items on social media platforms per week (ref KPI-8.3)
- Number of scientific publications per year

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- Number of CYCLONE software downloads per week (KPI-8.2)
 - Reference to project activities and products in media, including traditional, web and social networks
 - Number of event attended and project presentations made.

Statistics on the KPIs will be provided in the annual DCP reports D2.5 (M12), D2.6 (24), D2.7 (M35).

3. Target Communities: Identifying New Communities and Technology Focus

The DCP (D2.2, 2015) identified the following target audiences to focus dissemination activity in the first year for the main project products:

- Application Service Providers
- Managed Service Providers

The fact that the project proposes tools and platforms for development of cloud based applications makes the project results potentially interesting for other audiences and developers who create and operate applications on cloud infrastructures.

In particular, the project identified two new target application domains for CYCLONE tools:

- **Networking community (vendors and operators)** that widely adopts Software Defined Networks (SDN) and Network Functions Virtualisation (NFV), who are increasingly using software and VM based cloud deployment automation tools.
- **Intercloud and multi-cloud infrastructures** provisioning and management, which is demanded by emerging Big Data and Internet of Thing (IoT) applications. Besides general cloud based services provisioning, these fields require also incorporating additional intercloud control and management functionality during deployment and bootstrapping of the complex multicloud infrastructures and applications.

These two new application domains are currently being actively developed and targeting them in the future DCP activities will potentially increase the impact of project results. When working with target communities and searching for new applications domains, the project will refer to successful cooperation and achieved results in already defined and explored domains.

4. Communication Channels

This section provides a short overview of used communication channels and suggestions for their improvement and extension where relevant.

4.1. Building CYCLONE network and rising awareness about the project

Achieving awareness of identified project target communities and stakeholders about the project activities, planned products and timelines was the main goal of the initial stage of the project development. The following are the main milestones in realising this approach:

- Creation of the CYCLONE website using GitHub platform, which enabled each partner to contribute with information, news items and achieve news flow from the early beginning of the project.
- Creation of the CYCLONE social media accounts that were used to deliver project news, updates on activities and new developments, as well as to collect feedback from the communities.
- Partner network and channels were inventoried and coordinated for their use for project dissemination activities. It included partner professional, national and international contacts, existing cooperative contacts and links, conferences, exhibitions, and social media.
- Project presentations at different conferences, technical events and concertation meeting where the project members attended and contributed. This activity started with events not specifically sponsored by the project but which were relevant to project and had high expected impact on the project awareness.
- Distribution of the CYCLONE flyer as complimentary to the attendance at different meeting, conference and events (as listed in Appendix A).
- Establishing cooperative and coordinating contacts with other H2020 cloud projects (part of EC Unit E2 Software Services and Cloud) and with other project such as GEANT4 and ELIXIR in which the project partners are involved. In particular, this goal was realised in organising the joint network session on “Cloud SWOT” at the ICT2015 event in Lisbon on 22 October 2015 in cooperation with the SWITCH project.
- Organising workshops, special sessions, demos and other event at the conferences that provide access to target communities and stakeholders such as EU ICT events, TNC and EGI conferences, others

See Appendix A for the whole list of events where the CYCLONE project was presented and contributed in 2015.

4.2. Social Media

A social media presence and active interaction with followers is currently an important channel to disseminate information about CYCLONE goals, developments and events. Using social networks allows the project to reach a large group of people nearly instantly while supporting constant awareness about CYCLONE among created groups of followers and subscribers.

Based on the partners experience and evaluation of impact of different social media, the project has decided to limit the number of social media accounts and activities to LinkedIn and Twitter:

- H2020 CYCLONE LinkedIn group

LinkedIn represents the professional community and allows creating interest groups. Due to the low dissemination activity during the first year of the project LinkedIn has not been used as an open discussion tool. Most of the discussions and decisions have been carried out internally, in order to satisfy the preliminary development CYCLONE software components thus, offering a limited visibility to open discussions. It is planned that in the second year there will be more topics for public discussions to promote project developments and maintain users and followers groups. Cross-posting with other relevant groups will trigger the group's growth and more active discussions.

- @H2020_CYCLONE Twitter account

Twitter is actively used for posting regular project news and additional coverage of events where the project is involved. Twitter offers the most dynamic way of communicating project news and cross-posting relevant news items building in this way wider awareness about CYCLONE.

Maintaining social media accounts will also serve branding purposes by using the CYCLONE logo to ensure consistency with the rest of the project's communications. The project Twitter account is linked with partners individual and in some cases organizational accounts what allows extending the reach of the messages and amplify their effect.

4.3. EuCloudCluster

The Clusters of European Projects on Cloud is an initiative aimed to create a joint collaboration between projects funded by the European Community in order to let them interact and find synergies. There have been defined four clusters based on specific topics and specific goals but all of them are focused on cooperation among members on technical aspects, on market trends analysis and on dissemination and exploitation activities.

The CYCLONE Project has joined the "Inter-cloud Challenges, Expectations and Issues" Cluster together with other 12 EU funded projects (from both the recipients of ICT7 and H2020 grants). This Cluster groups together those Project mainly focused on the Inter-Cloud and Multi-Cloud approach, addressing topics and challenges from different perspective regarding interoperability between heterogeneous private and public clouds, services' comparability, portability, migration, and networking. Apart from providing a forum on technical discussion, the Cluster will offer the opportunity to join the organization of workshops and exploitation events with academic and industrial partners, as well as disseminating its outcomes through the release of Whitepapers and Position papers. Currently Cluster activities are carried out during biweekly conference calls, and are mainly focused on the release of a Position Paper aiming at establishing a first step towards the collaboration activities among all the involved projects.

5.DCP implementation: activity plan for 2016

This section provides information about planned CYCLONE dissemination and communication activities for the duration of the project based on dissemination and communication channels identified in the previous section. At the end of the first year the project will provide annual report on the dissemination activities and updated plan for the following year.

5.1. Project website operation and improvement

The project website <http://www.cyclone-project.eu/> became operational from the very beginning of the project. It played its role in increasing awareness about the CYCLONE activities and results by providing regular project updates and related news items.

The website activity is monitored via a private Piwik installation at TUB. Due to the invalidation of Safe Harbor by the European Court of Justice in October 2015, the website may have to be moved from public hosting at GitHub to an operator in Europe.

The general website activity is in line with those of EU projects similar to CYCLONE. On average, there are 3 to 12 unique visitors per day. The plan is to focus on improving the general information architecture to create a content strategy which can raise the number of unique and returning visitors.

Activities in this area for 2016 and 2017 will include:

- Identifying relevant and realistic combinations of A) target group, B) content and C) context.
- Creating a publication plan for enabling a continuous flow of news and information
- Extending the content by tutorials, in-depth descriptions, CYCLONE best practices, and more
- More frequently posting updates on project results and activities, ensuring their immediate pertinence for CYCLONE target groups
- Trying to get other relevant websites to link content on the CYCLONE website in order to raise the Google PageRank and therefore making CYCLONE appear higher in the Google search results

It was decided that there is no need for “internal project website”. CYCLONE uses a shared OneDrive folder for document collaboration and uses GitHub READMEs, Wikis and Issue Tracking for management purposes. The latest addition to the CYCLONE toolset was creating a group on Slack.

The future website will contain elements of the community engagement such as subscription to the project newsletters, linking to project and forum at LinkedIn, Twitter following.

5.2. Dissemination materials and branding

The CYCLONE branding strategy has been developed from the very beginning of the project and was methodically implemented in all dissemination materials and activities during the first project year, however at the initial stage they were primarily focused on rising the community and stakeholders awareness about the project and its future products. The target for the second year will shift to promoting the project products and services, user support and outreach.

The second year will require updating existing dissemination materials and developing new materials to present new results and products or services readiness status:

- CYCLONE leaflet will be updated to contain both short project’s introduction and newly developed products. Different leaflets focusing on CYCLONE products will be produced for major events in which the project will participate.
- CYCLONE newsletters summarising the project’s ongoing activities and available products will be produced at least twice a year
- CYCLONE poster to be produced for all conferences and events that allow posters. Based on 2015 experience, the posters are planned to display at least at Cloudscape2016, EGI Conference 2016, and TNC16.
- Other materials such as CYCLONE folder, stickers, bags, T-shirts will be considered for such events with wide attendance as EGI conference, TNC16, Supercomputing SC16, and others.

All above mentioned materials will use the main components of the CYCLONE brand such as logo, templates, styles as well as specifically crafted messages for reaching different target communities.

The project will use different channels to deliver necessary messages where important roles will belong to social media and network, first of all LinkedIn and Twitter where the project has created accounts and will work on growing community of followers.

5.3. Planned conferences and other events attendance

Table 5.1 below contains list of suggested events and conferences where CYCLONE partners intend to be present in 2016, although subject to submission or application to be accepted. The events attendance will also be used for dissemination materials distribution and for talking to the target communities. Planned journal papers are listed in Table 5.2.

Preliminary list of events and publications the project members participated in 2015 is given in Appendix A. More detailed information will be presented in the annual DCP report.

Table 5-1. Planned contribution to conferences and events by CYCLONE partners for 2016-2017.

Date (Month/Year)	Event, place	Planned contribution partner	Target community
8-9 - March 2016	Cloudscape VIII Brussels, Belgium 8-9 March 2016, Brussels URL: http://www.cloudscapeseries.eu/Pages/Home.aspx	CYCLONE Poster, demo, presentation. Dissemination materials distribution	EU cloud research community and industry, FP7/H2020 projects
March 29 – April 1 2016	IEEE Mobile Cloud 2016 Oxford, UK http://www.mobile-cloud.net/	Paper on mapping of Location Data within the Open Service Compendium	Researchers and Practitioners from Cloud Computing and Mobile Computing fields
12-13 April 2016	Cloud Expo Europe 2016 London, UK URL: http://www.cloudexpo.eu	Attendance, market research. Dissemination materials distribution, talking to	European cloud industry

	/	target user groups.	
4-8 April 2016	IEEE Workshop on Cloud Computing, Interclouds, Multiclouds, Federations, and Interoperability, in conjunction with the IEEE International Conference on Cloud Engineering (IC2E) Berlin, Germany URL: http://www.cyclone-project.eu/intercloud2016.html	Workshop organisation, paper presentation, panel organisation.	Cloud services and infrastructure researchers and developers, researchers from big companies.
6-8 April 2015	EGI2015 Conference Amsterdam	Poster and demo, Project presentation	European Research Infrastructure, Grid and Cloud communities, Data community
Not announced	GECON - Conference on the Economics of Grids, Clouds, Systems, and Services 2016 & 2017 (Athens / Singapore)	Paper on Cloud Service Matchmaking and Brokering.	Researchers and practitioners from information science and business computing areas
June 13-16 2016	WETICE 2016 Track Convergence of Distributed Clouds, Grids and their Management	Paper on Cloud Service Matchmaking and Brokering.	International academic and industrial researchers and practitioners.
June 2016	CLOUD 2016 – 9 th IEEE International Conference on Cloud Computing (CLOUD 2016)	Paper on Cloud Service Matchmaking and Brokering.	International academic and industrial researchers and practitioners.
27-30 June 2016	EuCNC2016	Multiple forms of contribution: papers, posters, BoF, lightning talks, demo	Key European networking community event, 400-700 attendees
13-16 June 2016	TNC16 – TERENA Networking Conference 2016 Prague, Czechia	Multiple forms of contribution: papers, posters, BoF, lightning talks, demo	Key European networking community event, 400-700 attendees
Not announced	ICT2016 TBD	Multiple forms of contribution: papers, posters, BoF, lightning talks, demo	EC, European networking community, over 1000 attendees.
December 2016	IEEE CloudCom2016 Conference Luxembourg	Multiple forms of contribution: papers, posters, BoF, lightning talks, demo	Cloud community research: and industry. 200-300 attendees
December 2016	NetCloud2016 Workshop Collocated with CloudCom2016 Luxembourg	Workshop organisation, papers submission, pane; discussion	Cloud and networking community: research

			and industry 20-30 attendees
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Table 5-2. Planned journal publications for 2016

Submission / Publication dates	Title of publication	Planned partner contribution
January 2016/ July 2016	Springer Next Generation Computing Systems	Paper about Cloud Service Matchmaking and Brokering as related to WP6 tasks..

5.4.Planned contribution to standardisation activity in 2016

Standardisation is especially important for CYCLONE as innovation project which aims at increasing its products adoption on a longer time period. Standardisation typically involves industry experts and representatives from provider community, developers and major industry companies to have strong impact on the technology adoption.

The project will continue its contribution to standardisation activity in 2016-2017, and will extend it if it will be required for target adopters and user community.

Table 5.3 lists the target standardisation bodies where CYCLONE will focus its DCP activity.

Table 5-3. Planned contribution to standardisation activity in 2016-2017

SDO	Committee, Working group, topic	Partner involved	What kind of contribution	Impact/ community
NIST	Cloud Computing Architecture WG Big Data WG	UvA	Cloud architecture, cloud services management, cloud infrastructure for data centric services	Whole cloud industry, other IT sectors
IETF	Individual Draft contribution	UvA	Update current Internet Draft “Cloud Reference Framework” with CYCLONE use cases and multi-cloud deployment automation.	Wide, whole Internet, communication, computing industry
IEEE	IEEE P2302 Intercloud Standards Working Group	UvA	Multi-cloud, Intercloud services federation: control and management interface definition based on XMPP. Intercloud Testbed Initiative	Industry and wide developers community
DMTF	Cloud CIMI	SixSq	Follow CIMI standard development. Early implementation and feedback on cloud services description format for management purposes	Industry and wide developers community

TMF	Multiple standards development, use in research and education Affiliate University membership.	UvA	Cloud/multi-cloud services deployment, management and operation. Zero Touch services provisioning model	Telecom industry, emerging cloud IaaS providers
CSA	Best Practices and guidelines documents, contribute, use in research and cloud education (UvA)	SixSq, TUB, UvA	Cloud security, Big Data security, federated security services	Whole cloud industry, research community

6. Conclusions

The proposed update of the Dissemination and Communication Plan is based on the results and experience of conducting dissemination activities in the first year of the project development. Appendix A provides a short summary of the main publications and events attended by the project members and summary of the standardisation activities.

Analysis of activities and achieved results allows to conclude that the initial DCP was developed correctly and not many changes are required. The document presents an updated list of conferences and events for 2016 with the specified goals and expected outcome as well as updated list of targeted contribution to standardisation activities.

The deliverable contains only updated sections and refers to the main DCP document in deliverable D2.2.

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Applications Using the Zero Touch Provisioning, Proceedings The 5th workshop on Network Infrastructure Services as part of Cloud Computing (NetCloud 2015), as part of The 8th IEEE/ACM International Conference on Utility and Cloud Computing (UCC2015), December 7-10, 2015, Limassol, Cyprus.

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8. Abbreviations and Definitions

8.1. Definitions

No specific definitions are introduced in this document.

8.2. Abbreviations

CSA	Cloud Security Alliance
DC	Data Center
DMTF	Distributed Management Task Force
E2E	End to End
EGI	European Grid Initiative
IaaS	Infrastructure-as-a-Service
IPR	Intellectual Property Rights
IT	Information Technology
IEEE	Institute of Electrical and Electronic Engineers
IETF	Internet Engineering Task Force
NaaS	Network-as-a-Service
NIST	National Institute of Standards and Technology (USA)
OGF	Open Grid Forum
PaaS	Platform-as-a-Service
PoP	Point of Presence
RDA	Research Data Alliance
SaaS	Software-as-a-Service
SDN	Software Defined Networks
SDO	Standard Development Organisations
SN	Social Network
SP	Service Provider
TCTP	Trusted Cloud Transfer Protocol
TMF	TeleManagement Forum
TNC	TERENA Networking Conference

APPENDIX A. Events and publications by CYCLONE partners

A.1. Events and publications by CYCLONE partners in 2015

Conferences and other events where CYCLONE participated and/or contributed in 2015 are listed in the following table.

Date (Month/Year)	Event, place	Planned partner contribution	Target community
9-10 March 2015	Cloudscape VII Brussels, Belgium http://www.cloudscapeseries.eu/Content/DemosAndPosters.aspx?Cat=0!20	SixSq (C.Loomis) Demo [4]	EU cloud research community and industry, FP7/H2020 projects
11-12 March 2015	Cloud Expo Europe 2015 London, UK URL: http://www.cloudexpoeurope.com/	SixSq (C.Loomis) Exhibitor SlipStream, Helix Nebula Marketplace [5]	European cloud industry
12 March 2015	IEEE Workshop on Cloud Computing, Interclouds, Multiclouds, Federations, and Interoperability, in conjunction with the IEEE International Conference on Cloud Engineering (IC2E) Tempe, Arizona, USA URL: http://www.intercloudtestbed.org/intercloud2015.html	UvA (Y.Demchenko) <ul style="list-style-type: none"> • Paper presentation [6] • Panel on Intercloud projects and implementation 	Cloud services and infrastructure researchers and developers, researchers from big companies.
25 March 2015	3rd CloudWATCH Concertation meeting at NetFutures 2015 conference. Brussels, Belgium URL: http://www.cloudwatchhub.eu/turning-cloud-research-innovative-software-services	I2CAT (E.Escalona, J.I.Baranda)	Majority of EU FP7 and H2020 cloud projects (part of EC Unit E2 Software Services and Cloud)
18-22 May 2015	European Grid Initiative (EGI) Conference Lisbon, Portugal URL: http://www.egi.eu/news-and-media/newsfeed/news_2015_005.html	Poster presentation (UvA), dissemination materials distribution, talking to target user groups from European research community [7]	European research community, Grid and cloud research infrastructure
15-18 June 2015	TERENA Networking Conference (TNC15)	Poster presentation (UvA), dissemination	European research networking

	Porto, Portugal URL: https://tnc15.terena.org/	materials distribution, talking to target user groups from European research community [8]	community, GEANT and NREN cloud projects
15-17 June 2015	Track CDCGM2015: Convergence of Distributed Clouds, Grids and their Management, as part of The 24th IEEE WETICE 2015 Conference Larnaca, Cyprus URL: http://cdcgm.dieei.unict.it/	Paper presentation (TUB) [9] Regular dissemination activities	Cloud and Grid Research community
1-4 September 2015	First International Workshop on Knowledge Discovery and Cloud Computing Applications	Paper presentation (TUB) [10]	International Knowledge Discovery and Cloud Application communities
15-17 September 2015	Track 6 at GECON2015: Economics of Service Composition, Description, and Selection. Cluj, Romania URL: www.gecon-conference.org/gecon2015	Track Organization, Paper presentation (TUB) [11]	Researchers and Practitioners from Business Computing and Information Science
20-22 October 2015	ICT2015 Conference Lisbon	Networking session organisation on “Cloud SWOT” together with SWITCH project	Majority of EU funded projects
7-10 Dec 2015	4th NetCloud2015 Workshop, in conjunction with UCC2015 7-10 December 2015, Cyprus URL: http://cyprusconferences.org/ucc2015/#&panel1-3 http://www.cyclone-project.eu/netcloud2015.html	Workshop organisation, CYCLONE position paper presentation, [12]. Joint paper with GEANT4 on ZeroTouch provisioning model [13]. Joint paper with IEEE Intercloud testbed initiative on Intercloud XMPP protocol [14] Panel on cloud deployment automation tools. Dissemination materials distribution	Cloud infrastructure and services researchers and developers, cloud industry, standardisation bodies

Other forms of contributions and publications.

- IFB presented the bioinformatics use cases and the current progress to the ELIXIR Technical Coordinators group. The presentation admitted the use of the federation provider to authenticate the VMs access and the use of Slipstream for deploying complex applications. This attracted great interest from the ELIXIR infrastructure and community. URL: ELIXIR Technical Coordinators group : <https://www.elixir-europe.org/about/groups>
- Contribution to position paper “Inter-cloud Challenges, Expectations and Issues Cluster Position Paper” within the EuCloudCluster initiative.

A.2. Contribution to standardisation activity by CYCLONE in 2015

CYCLONE contribution to standardisation in 2015 are listed in the following table.

SDO	Committee, Working group, topic	Partner involved	What kind of contribution	Impact/ community
NIST	Cloud Computing Architecture WG Big Data WG	UvA	Cloud architecture, cloud services management, cloud infrastructure for data centric services	Whole cloud industry, other IT sectors
IETF	Individual Draft contribution	UvA	Internet Draft submitted "Cloud Reference Framework"[3] Defines the Intercloud Architecture Framework (ICAF) including Intercloud Federation Framework (ICFF) to be adopted by CYCLONE	Wide, whole Internet, communication, computing industry
IEEE	IEEE P2302 Intercloud Standards Working Group	UvA	Multi-cloud, Intercloud services federation Intercloud Testbed Initiative	Industry and wide developers community
DMTF	Cloud CIMI	SixSq	Implementation and feedback on cloud services description format for management purposes	Industry and wide developers community
TMF	Follow multiple standards development, use in research and education Affiliate University membership.	UvA	Cloud/multi-cloud services deployment, management and operation. Zero Touch services provisioning model	Telecom industry, emerging cloud IaaS providers
CSA	Follow Best Practices documents, contribute, use in research and cloud education (UvA)	SixSq, TUB, UvA	Cloud security, Big Data security, federated security services	Whole cloud industry, research community

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