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**TELECOMMUNICATION
STANDARDIZATION SECTOR**

STUDY PERIOD 2009-2012

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4-15 June 2012

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Source: ITU-T Study Group 13 (Geneva, 4-15 June 2012)

Title: Information on Service Delivery Platform (SDP) standards roadmap update

LIAISON STATEMENT

For action to:

For comment to:

For information to: OMA ARC, ATIS CSF, ITU-T SG9, ITU-T SG16, IEEE P1903

Approval: Agreed to at SG 13 meeting

Deadline:

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SG13 wishes to thank for the feedback received concerning our initial draft of the SDP standards roadmap.

At its June 2012 meeting Q.3/13 has consolidated the received information and some additional information from the meeting itself producing an update of the initial draft, and is pleased to provide it in attachment for your information.

In order to progress the coordination process towards a common SDP standards roadmap, as already indicated in the previous liaison (which contained our initial draft of the SDP standards roadmap), ITU-T SG13 wishes that these exchanges about any new or updated SDP technical standardization items in our respective organizations will continue in the future as timely and as appropriate as possible.

From the SG13 point of view, we wish to indicate that we will keep you informed as soon as we will have any new or updated information and/or proposals to share concerning this coordination process towards a common SDP standards roadmap, including technical details as well as aspects related to timing, items priorities and possible involvement of other organizations.

SG13 wishes to thank you for your collaboration and looks forward to continuing it in the future.

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Attachment – June 14th 2012 update of the SDP standards roadmap for coordination across relevant SDOs

ATIS CSF OMA ITU-T SG13

SDP domain	SDP technical item requiring (further) standardization	Description of the key standardization objectives for the technical item	Priority of the technical item (HIGH/ MEDIUM/ LOW) NOTE: the objective of this column is to develop a shared level of priority for the various technical items across the involved SDOs	SDOs to be involved in the standardization work related to the technical item	Available basic standards specifications (requirements, other specifications) to build on for the standardization work related to the technical item	Estimated target time for the availability of the standards specification(s) related to the technical item (Year/Quarter) NOTE: the objective of this column is to develop a shared time frame across the involved SDOs for the availability of the standards specification(s).	Other information (additional information which can be provided by the involved SDOs)
Integration of resources and capabilities from providers	Resource and capability interfaces from providers	Standardization of resource and capability interfaces provided by different resource domains (e.g. Telecom, Internet, Broadcast etc.) and different providers (e.g. service providers, content providers, cloud providers etc.)	ATIS CSF: HIGH OMA: HIGH ITU-T SG13: HIGH	ATIS CSF: ATIS: CSF, PRQC, TMOC, PTSC, OBF; ITU-T SG13; TMF Information Framework and Service Delivery Framework Groups; IETF CDNI and Multi-Cast Groups; OVCC, WAC; OMA: ARC ITU-T SG13: OMA Service enablers, OMA API Inventory; Cloud related: DMTF CIMI;	ATIS CSF: Documents: 1,2, 3, 4, 5 OMA: Several APIs have just been defined. ITU-T SG13: 1, 2, 3	ATIS CSF: These are published documents. Additional work is forthcoming related to issues: 18, 22, 24, 25, 26, 27, 29, 30. This work is all tentatively targeted for completion in 2012. OMA: Several API has just been defined. A new Set of APIs are ongoing during 2012 ITU-T SG13: TBD	ATIS CSF: Docs 1 and 2 are generic while the rest are specific to CDNI and telepresence. CSF work is driven by service verticals (e.g. CDNI-I and telepresence) but CSF identifies reusable service enablers during the definition process.

				SNIA CDMI; OGF OCCI; ATIS CSF specs			
Application publishing	Interfaces between SDP and application store	Standardization of interfaces between SDP and application store to facilitate application provisioning and management in SDP	ATIS CSF: No current work, however there is a dependency between this work and the CST work. OMA: HIGH for TAS, MEDIUM for provisioning of TAS. ITU-T SG13: MEDIUM	ATIS CSF: ATIS CSF; TMF, ITU, OMA, WAC and GSMA; OMA: OMA	ATIS CSF: document 1; OMA: document 7 ITU-T SG13: OMA TAS, WAC specs	ATIS CSF: Document Published (CSF shared the published document with the groups noted earlier). OMA: scheduled 3Q2012 ITU-T SG13: TBD	ATIS CSF: There is a need for provisioning aspects but it is currently dealt with between the service providers and the application provider.
	Interfaces between SDP and web portal for management	Standardization of interfaces between SDP and portal for self management and self operations for administrator, application provider, content provider and end-users	OMA: LOW ITU-T SG13: MEDIUM	ATIS CSF: OMA (all requirements related to API definition currently being addressed by the Open Mobile Alliance), WAC, <i>Possible relation to work in ETRI (?)</i>		ITU-T SG13: TBD	ATIS CSF: There is a need to define APIs for service management.
Support of IoT (Internet of Things)	SDP adaptation and integration of IoT resources	Standardization of SDP capabilities (i.e. adaptation & integration) for IoT	OMA: HIGH ITU-T SG13: HIGH	OMA: OMA	OMA: document 8	OMA: under work ITU-T SG13: TBD	ATIS CSF believes that the IoT architecture closely aligns with the cloud services architecture.
	IoT applications support based on SDP	Standardization of interfaces provided by SDP for IoT applications	OMA: HIGH ITU-T SG13: HIGH	ATIS CSF: ATIS TOPS Council OMA: ARC	ITU-T SG13: OMA Lightweight M2M	ATIS CSF: End of April ITU-T SG13: TBD	ATIS CSF: The ATIS M2M-FG is working on a set of deliverables that assesses common functionalities at the common service layers in the verticals: eHealth,

							Connected Vehicle, Connected Home and Smart Grid.
Cloud enabled SDP	Role of SDP in terms of integration of cloud resources and their exposure to 3rd parties	SDP deployment in Cloud environment to realize cloud enabled SDP	<p>ATIS CSF: HIGH OMA: MEDIUM ITU-T SG13: HIGH</p>	<p>ATIS CSF: ATIS: CSF, PRQC, TMOC, PTSC, OBF; ITU-T SG13, TMF Information Framework and Service Delivery Framework Groups; IETF CDNI and Multi-Cast Groups; OVCC, WAC, OMA, OMA ARC</p>	<p>ATIS CSF: Documents: 1, 2, 3, 4, 5 OMA: document 9 ITU-T SG13: documents 2, 3</p>	<p>ATIS CSF: These are published documents. Additional work is forthcoming related to issues: 18, 22, 24, 25, 26, 27, 29, 30. This work is all tentatively targeted for completion in 2012. ITU-T SG13: TBD</p>	<p>ATIS CSF views cloud services as essentially a distributed SDP, many of the SDP functions and concepts are applicable to cloud, but the exchange and federation functions need to be matured. Cloud services should capture the essence of the SDP technology while providing open access to OTT and trusted services.</p>
	Applications deployment based on virtualized resources	SDP support for application deployment using virtualized machines (e.g. virtual appliances)	<p>ATIS CSF: HIGH OMA: HIGH ITU-T SG13: HIGH</p>	<p>ATIS CSF: ATIS: CSF OMA: OMA</p>	<p>ATIS CSF: Issues: 18, 25 OMA: Documents 10, 11</p>	<p>ATIS CSF: This work is all tentatively targeted for completion in 2012. ITU-T SG13: TBD</p>	<p>ATIS CSF: The CSF focus is on what service enablers are required for each service vertical, and how they interact.</p>
	Applications deployment using distributed storage resources	SDP support for application deployment using distributed storage resources	<p>ATIS CSF: HIGH OMA: LOW ITU-T SG13: HIGH</p>	<p>ATIS CSF: ATIS CSF; IETF CDNI and Multi-Cast Groups OMA: OMA</p>	<p>ATIS CSF: Documents: 3, 4 Issues: 22, 30</p>	<p>ATIS CSF: The documents are published and the remaining work is all tentatively targeted for completion in 2012. ITU-T SG13: TBD</p>	<p>ATIS CSF is focused on distributed storage for content delivery, including software, media, etc.</p>

	APIs for SDP platform in cloud environment	Open APIs (e.g. service enabler management, service management, tenant management)	ATIS CSF is focused on provider to provider interfaces but acknowledges dependencies on the control plane and on the provider to user interface. OMA : MEDIUM ITU-T SG13 : HIGH	ATIS CSF : OMA (all requirements related to API definition currently being addressed by the Open Mobile Alliance), WAC, <i>Possible relation to work in ETRI (?)</i> OMA : OMA		ITU-T SG13 : TBD	ATIS CSF : There is a need to define APIs for service management.
Distributed deployment	SDP functional decoupling (SDP subsystems)	Definition of SDP subsystems and their respective functions	OMA : MEDIUM ITU-T SG13 : MEDIUM	OMA : OMA		ITU-T SG13 : TBD	ATIS CSF has high interest in this topic, and would be interested in contributing to the work, but has not defined work in this area to date. CSF believes this inventory of capabilities is tied to Service Catalog
	Distribution of the construction and deployment of each SDP subsystem	Standard interfaces among SDP subsystems	OMA : HIGH ITU-T SG13 : MEDIUM	OMA : OMA		ITU-T SG13 : TBD	ATIS CSF has high interest in this topic, and would be interested in contributing to the work, but has not defined work in this area to date. ATIS CSF believes this inventory of capabilities is tied to Service Catalog.
Security framework	AAA mechanism	Standardization of mechanism to Control Consumption &	OMA : HIGH	OMA : ARC			

		exposure of the SDP capabilities and the provisioned application data stored in the SDP's database					
	End user authorization	Define a mechanism to permit a resource owner owning network resources exposed by a RESTful Network API, to authorize third-party applications (desktop, mobile and web applications) to access these resources via that API on the resource owner's behalf.	OMA: HIGH	OMA: ARC		OMA: Auth4API framework has just been released by OMA	

References

From ATIS CSF:

- [1] [Service Enabler Characterization Technical Report](#)
ATIS-0200001, August 2010
- [2] [3rd Party Service Provider Interfaces](#)
ATIS-0200002, January 2011
- [3] [CDN Interconnection Use Case Specification and High Level Requirements](#)
ATIS-0200003, June 2011
- [4] [CDN Interconnection Use Cases and Requirements for Multicast-Based Content Distribution](#)
ATIS-0200004, January 2012
- [5] [Cloud Framework for Telepresence Service](#)
ATIS-0200005, February 2012

From OMA:

- [1] http://www.openmobilealliance.org/Technical/release_program/ose_v1_0.aspx
- [2] http://www.openmobilealliance.org/Technical/Release_program/peem_v1_0.aspx
- [3] <http://www.openmobilealliance.org/API/APIInformation.aspx?page=about>
- [4] <http://www.openmobilealliance.org/API/APIInventory.aspx>
- [5] http://www.openmobilealliance.org/Technical/release_program/GuidelinesREST.aspx
- [6] http://www.openmobilealliance.org/Technical/release_program/Autho4API_v1.0.aspx
- [7] http://member.openmobilealliance.org/ftp/Public_documents/TP/Permanent_documents/OMA-WID_0198-TAS-V1_0-20100727-A.zip
- [8] http://www.openmobilealliance.org/comms/pages/OMA_2011_Annual_Report.htm#m2m
- [9] http://member.openmobilealliance.org/ftp/Public_documents/BOD-CLOUD/Permanent_documents/OMA-WP-Cloud_Computing_V2_0-20120308-D.zip
- [10] http://member.openmobilealliance.org/ftp/Public_documents/REQ/UVE/Permanent_documents/OMA-RD-UVE_RD-V1_0-20111013-D.zip
- [11] http://member.openmobilealliance.org/ftp/Public_documents/CD/UVE/Permanent_documents/OMA-ER-UVE-V1_0-20120424-D.zip

From ITU-T SG13:

- [1] ITU-T Y.2234 Open service environment capabilities for NGN
- [2] ITU-T Y.2240 Requirements for NGN service integration and delivery environment
- [3] ITU-T Y.2025 (ex Y.NGN-SIDE-Arch), Functional architecture of NGN service integration and delivery environment (consented at June 2012 SG13 meeting)

Other received information from ATIS CSF: issues in progress

Issue Number	Status	Issue Title
#007	Active	Common Name Space Requirements
#014	Active	Charging for Cloud Services

#015	Active	Cloud Service Logging and Auditing
#016	Active	Cloud Services Control Plane
#017	Active	Cloud Services Lifecycle Checklist Framework
#018	Active	Cloud Services Virtual Desktop Requirements
#020	Active	Cloud Services Glossary and Acronyms
#022	Active	CDN Interconnection Use Cases & Requirements – Release 2
#024	Active	Federation of Cloud Services and Networks for Service Delivery
#025	Active	Service provider requirements for VPN-Oriented Data Center Services (VDCS)
#026	Active	Cloud Services Inter-Service Provider Billing Requirements
#027	Active	Cloud-Based Telepresence: Interconnect, Interoperability and Architecture
#029	Active	Plan for a Functional Privacy Solution for Cloud and Web Services
#030	Active	CDN Interconnect deployment models