

ITU-T Cloud Computing Event

ITU-T Focus Group Cloud Computing Introduction

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Vice Chair

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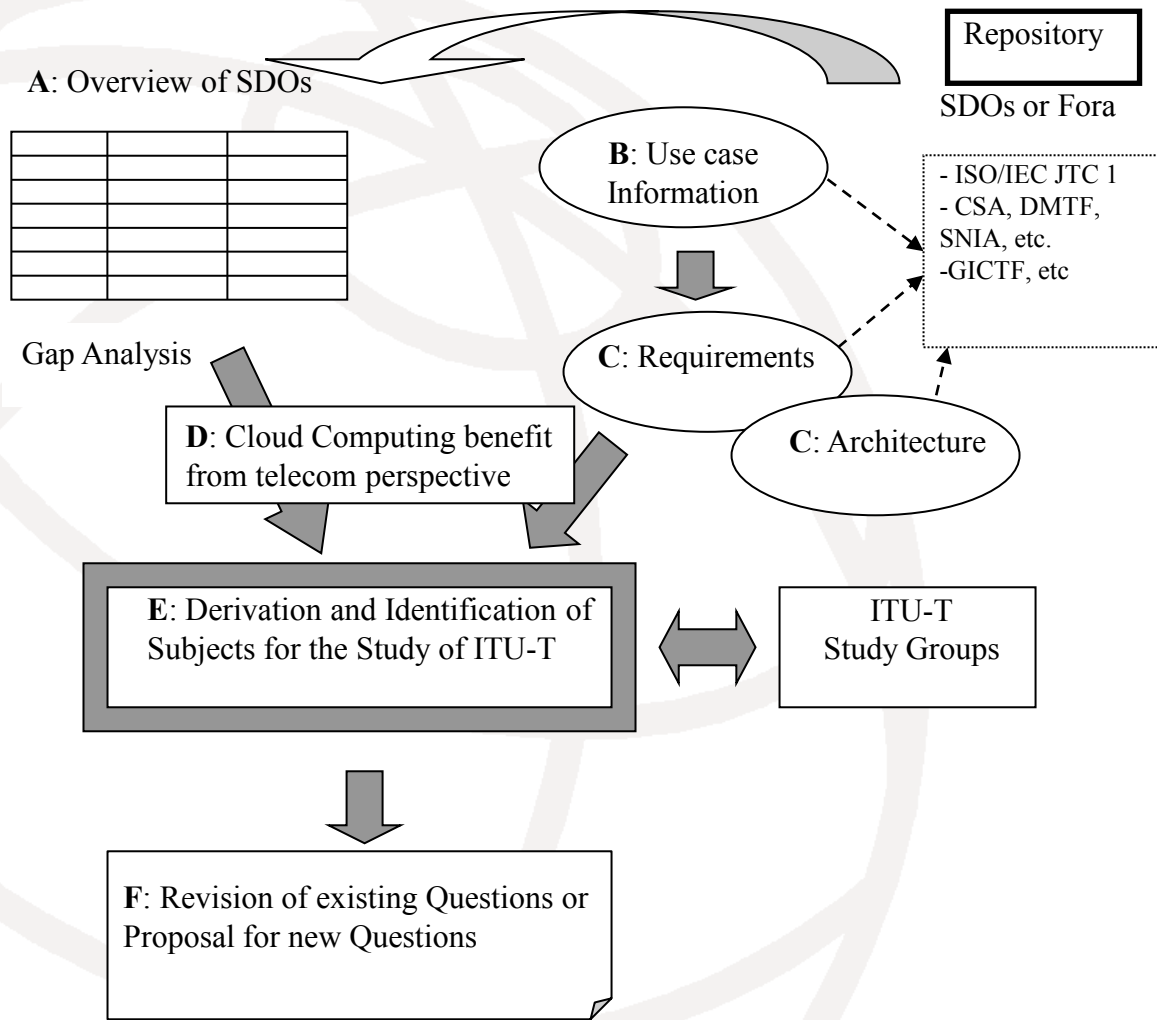
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Introduction

- **Terms of Reference:**
 - <http://www.itu.int/en/ITU-T/focusgroups/cloud/Pages/tor.aspx>
- **Objective:** to collect and document information and concepts that would be helpful for developing ITU-T Recommendations to support cloud computing services/applications from a telecommunication/ICT perspective
- **Management team:**
 - Chairman: Victor Kutukov Stack Soft (Russia)
 - Vice-Chairmen:
 - Jamil Chawki France Telecom Orange, (France)
 - Kangchan Lee ETRI, (Korea)
 - Mingdong Li ZTE, (China)
 - Monique Morrow Cisco Systems, (USA)
 - Koji Nakao KDDI, (Japan)
 - Olivier Colas Microsoft, (Canada)
- The FGCC Started in June 2010.
- **Structure: 2 Working Groups**
 - WG1: Cloud computing benefits & requirements
 - WG2: Gap Analysis & Roadmap on Cloud Standards development in ITU-T
- 8 meetings and circa 50 attendees in each meeting for a total of 363 attendees
- 468 total contributions were submitted

Work Process



FGCC deliverables and Liaisons

- 7 deliverables were identified Dec 12-16 2011
 - Overview of SDO
 - Cloud Ecosystem
 - Reference Architecture
 - Resource Management
 - Requirements and framework architecture of cloud infrastructure
 - Security
 - Benefits
- 42 Liaisons received and 23 were transmitted
- Liaison and SDO/Fora Participation:
 - GICTF (Global Inter-Cloud Technology Forum) , active contribution and participation
 - CSA participation to FG meeting
 - DMTF participation to FG meeting
 - ISO/IEC JTC1/SC38: a Joint meeting with was held last September
 - ISO/IEC JTC1/SC27

SDO: Gap Analysis

- Almost all the Forums dealing with cloud computing have developed its own architecture for its own purpose. Unfortunately they are not identical.
- DMTF, SNIA, and OGF have developed their forum standard and some interfaces for virtualization technique.
- There is not a Forum or SDO which shows total picture of cloud computing standardization.
- De jure standard organizations, as ITU-T or ISO/IEC JTC1, is expected to play a role to develop an umbrella document as “End to End overall system view”.

Benefits

General benefits of cloud computing from telecommunication/ICT perspectives identified from Cloud service user, Cloud service provider, and Cloud service partner perspective.

Roles of Telecommunication in Cloud Computing is described, and eight candidate study items on Cloud Computing for ITU-T are proposed in 3 categories

Benefit: Candidate Study Items [1]

Items were investigated within FG cloud and output documents were produced as an input for further development by ITU-T Study Groups:

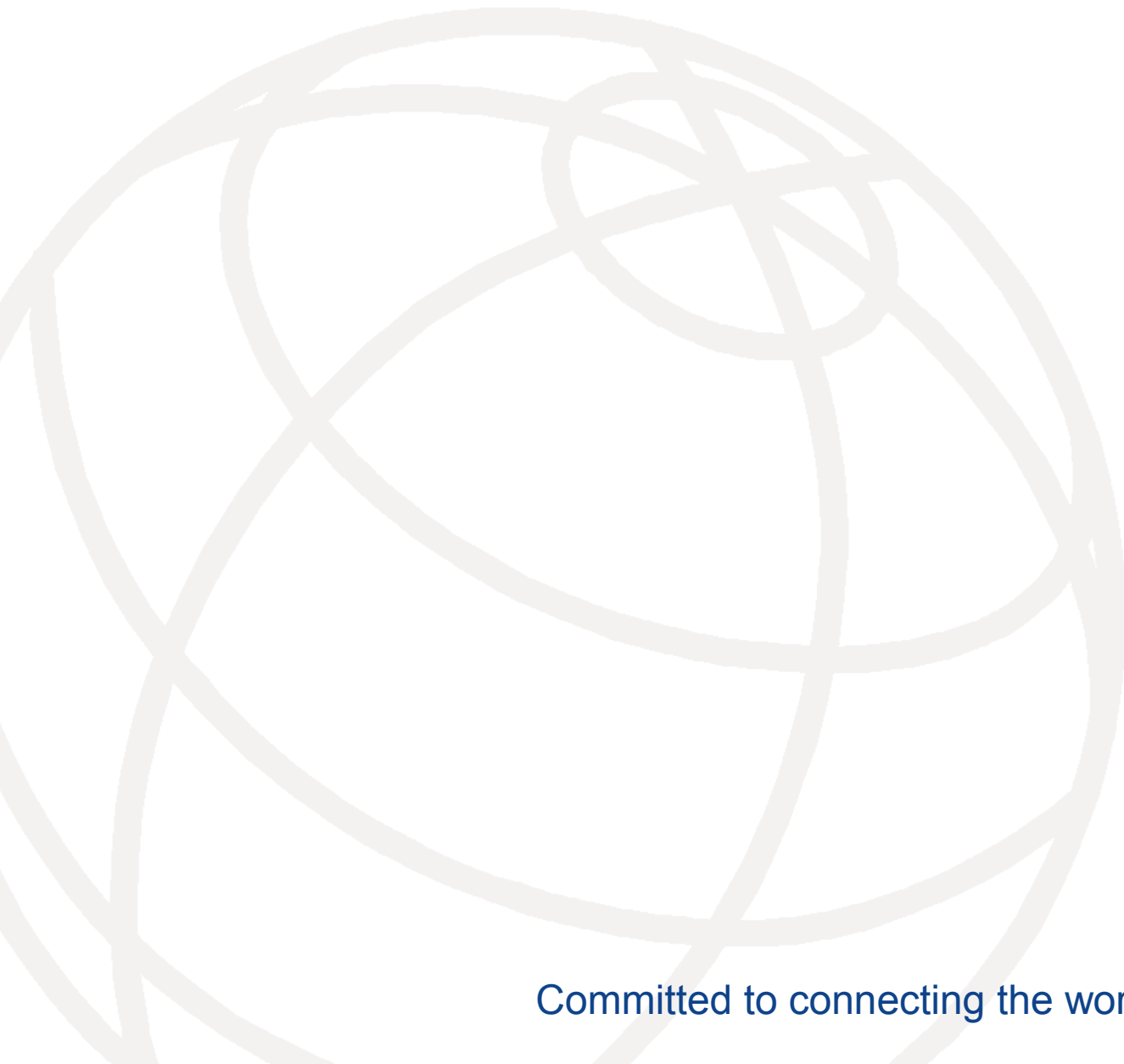
- 1 Cloud Ecosystem
- 2 Cloud Security
- 3 Cloud functional reference Architecture
- 4 Cloud Infrastructure
- 5 Inter-Cloud

Benefit: Candidate Study Items [2]

- Items were partly investigated within FG cloud and output documents were produced as an input for further development by ITU-T SGs
 1. Desktop as a Service (DaaS)
 2. Cloud Management (Resources & Services)

- Items were introduced within FG cloud with a limited investigation
 1. Accessibility and Eco-friendly Cloud Computing

Thank YOU!



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