

ITU Joint Coordination Activity on Cloud Computing (JCA-Cloud)

Global coordination is the key to the Cloud Computing success.

Formed in January 2012, the ITU Joint Coordination Activity on Cloud Computing (JCA-Cloud) is open to ITU Members and designated representatives of relevant Standards Development Organizations and Forums working on Cloud Computing.

JCA-Cloud provides a global platform to exchange Cloud Computing information and discuss coordination matters to avoid overlaps or duplication of effort.

To assist in this work, please contact: tsbsg13@itu.int http://www.itu.int/en/ ITU-T/jca/Cloud/



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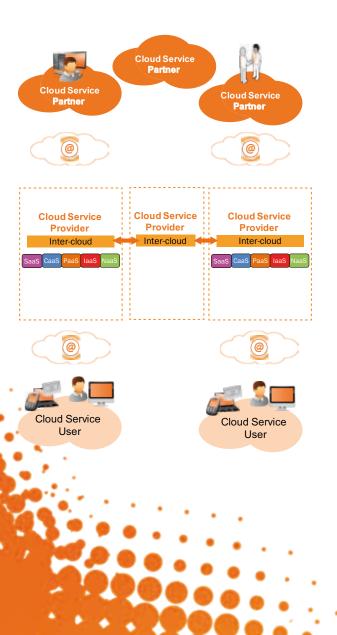
IIU-



International Telecommunication Union

Cloud Computing

The cloud computing system



Cloud Characteristics

Cloud computing is a model offering users ubiquitous, convenient, on-demand network access to a shared pool of configurable cloud resources: networks, servers, storage, applications, and services provided rapidly and released with minimal management effort or service provider interaction.

The cloud computing model

five essential characteristics:

- on-demand
- delivery over a broad network access
- resource pooling
- rapid elasticity
- self and measured services

five cloud computing service categories:

- Software as a Service (SaaS)
- Communication as a Service (CaaS)
- Platform as a Service (PaaS)
- Infrastructure as a Service (laaS)
- Network as a Service (NaaS), and different deployment models (public, private, hybrid, etc).

Cloud computing was in the past considered information technology service-centric, and driven by Internet/over the top players. However, telecommunication providers have an important role to play in the emerging cloud ecosystem as telecommunication networks form a central part of the multi-tenant cloud computing architecture, delivering multiple services to multiple users with Quality of Service (QoS) and optimal resource utilization.

ITU-T Study Group 13: Cloud Computing

SG 13 – Future Networks and NGN – hosts a new Working Party on cloud computing which addresses three Questions in its standardization work:

Working Party 6/13, "Cloud Computing", Chairman: Jamil Chawki (France Télécom Orange, France)

- Question 26/13, Cloud computing ecosystem, inter-cloud and general requirements, Rapporteur: Kangchan Lee (ETRI, Korea)
- Question 27/13 *Cloud functional architecture*, infrastructure and networking, Rapporteur: Mingdong Li (ZTE, China)
- Question 28/13 Cloud computing resource management and virtualization, Rapporteur: Richard Brackney (Microsoft, USA)

This Working Party is tasked with developing ITU-T Recommendations that are based on progressing the Technical Reports that were the output of a previous Focus Group on Cloud Computing (FG Cloud) (http://www.itu.int/en/ITU-T/ focusgroups/cloud).



For more information on the activities and work programme of SG 13, please visit the ITU-T website at:

http://www.itu.int/ITU-T/ studygroups/com13