Metadata in the Cloud Computing

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The Study Period issues

- Scenarios
- Use Cases
- Requirements
- Models

Part 3 … Part 5 … Part 7 … Part 8 …

19763-MFI

11179-MDR

20944-MDR-IB

NWIP

Additions to existing standards

Cooperation with other SCs, SDOs
The Study Period issues
Use Case: DaaS – Desktop as a Service

ITU-T01 DaaS (IaaS)

- Cloud Service User:
  - Capability to connect and use his/her Virtual Desktop, that is available on VM infrastructure and uses several resource pools, like OS Pool, Application Pool and User Profile Pool
  - The capability is available through a connection broker – i.e. a software program, that connect Cloud Service User to an available virtualised desktop.
  - Connection brokers performs:
    - user authentication and licence verification
    - management of VM
    - protocol coordination (between user and server)
    - support for the connection between backup storage and virtualised desktop storages.
Use Case: UCaaS – Unified Communication as a Service

ITU-T02 UCaaS (CaaS)

- Provided as a service model (category): Communication as a Service (CaaS)
- The capability provided to the cloud service users,
  - use real time communication functionalities from a cloud service provider in a flexible way.
  - those functionalities can be embedded in web applications accessible e.g. via Internet (communication and collaboration services include voice over IP, instant messaging, and video conferencing, for different user devices).
  - The unified communication means switch in using different kinds of communication agile and transparent for the users, depending on their dynamically changed accessibility. It is a comprehensive, converged communication system for real time data, voice, video, communication, unified messaging for fixed and mobile systems, with presence management.
  - It enables more effective and secure way of personal communication, concerned with moving the user session between different devices and different kind of communication.
  - to be used with different devices, PC, tablet and mobile terminals.
Use Case: SDPaaS – Service Delivery Platform as a Service

ITU-T03 SDPaaS (PaaS, SaaS/CaaS)

- capability provided to Cloud Service User:
  > use Service Delivery Platform (SDP) functionalities and services provided by CSP
  > functionalities – realised as PaaS services
  > services – realised as SaaS/CaaS services

- capability provided to Cloud Service Provider:
  > deploy, control and manage Service Delivery Platform functionalities

Cloud Service Platform Services

- service creation (functional group)
  > capabilities to realise development of services

- service execution (functional group)
  > capabilities to support Service Execution Environment

- service delivery management (functional group)
  > capabilities to realise management of services, provisioning and charging
Use Case: Modelling real-world Cloud Service (Business Processes) (ITU-T 04)

Internet television ecosystem

- Federated ecosystem of cloud-based entertainment services, where multiple commercial retailers offer interoperable streaming and download of premium video content
  > Media Retailer A (CSP)
  > Streaming Service CSP B
  > Right Locker C (CSP)

- Different Cloud Service Players that should follow common business process flow to realise the service and deliver to Cloud Service Provider (Business Process as a Service)
Thank You!