Technical Report

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Cloud computing — Multi-cloud management —

Part 1: Overview and use cases

Informatique en nuage — Gestion multi-nuages —

Partie 1: Vue d'ensemble et cas d'utilisation

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Foreword

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Introduction

Many CSCs are using cloud services from multiple CSPs to achieve cost savings, vendor choice, business continuity, choice of services and security.

Operating in a multi-cloud environment poses a number of challenges for CSCs including varying interfaces, billing and metering schedules, security and privacy protections and performance.

CSCs can address multi-cloud challenges on their own, or by using cloud service partners, through standardized approaches.

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Cloud computing — Multi-cloud management —

Part 1:
Overview and use cases

1 Scope

This document is based on ISO/IEC 22123-1, ISO/IEC 22123-3 and ISO/IEC 5140 and provides an overview of the management challenges faced in multi-cloud deployments, as well as the management activities that can be undertaken to address these challenges.

Additionally this document provides use cases with user and functional views to further explain the multi-cloud management challenges and activities

2 Normative references

There are no normative references in this document.

3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org/

4 Abbreviated terms

API	Application programming interface
CCPA	California consumer privacy act
CCRA	Cloud computing reference architecture
CSA	Cloud service agreement
CSC	Cloud service customer
CSN	Cloud service partner
CSP	Cloud service provider
CSU	Cloud service user
DR	Disaster recovery
GDPR	General data protection regulation
IaaS	Infrastructure-as-a-service

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