

CLOUD COMPUTING

1. Purpose and Scope The purpose of this document is to explain the cloud computing technology area in plain terms, and to provide recommendations for information technology decision makers. Cloud computing is a developing area and its ultimate strengths and weakness are not yet fully researched, documented and tested. This document gives recommendations on how and when cloud computing is an appropriate tool, and indicates the limits of current knowledge and areas for future analysis.

2 Audience This publication is intended to serve a diverse enterprise audience of information systems professionals including chief information officers, information systems developers, project managers, system designers, systems programmers, application programmers, system and network administrators, information system security officers, and system owners.

3. Cloud computing is the **on-demand** delivery of **IT infrastructure Components¹** and **Services**, over the Internet with **pay-as-you-go** pricing from a **cloud service provider(CSP)**.

- **Cost** – One of the biggest advantage is cost because of the **OpEx vs. CapEx** model. Businesses don't have to do **Capacity Planning**.
- **Shared Responsibility Model** – CSPs are responsible for the **security and the availability of the cloud infrastructure** and customers are responsible for **securing the application and data** they put in the cloud.
- **Agility** – You can deploy technology services in a matter of minutes, and get from **Idea to Implementation** much faster than before.
- **Elasticity** – Cloud infrastructure **scales up and down** based on demand to support fluctuating workloads.
- **Global Presence and Accessibility** – **Cloud-based applications** and data are accessible from virtually any internet-connected device.