HGC
Hutchison Global Communications

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A member of the HTHKH Group
A Hutchison Whampoa Company

Agenda

- About HGC

- RFI Review

- HGC Cloud Services

- Backup and Restore Services

- Add-on Services – HGC Metro Networking Services
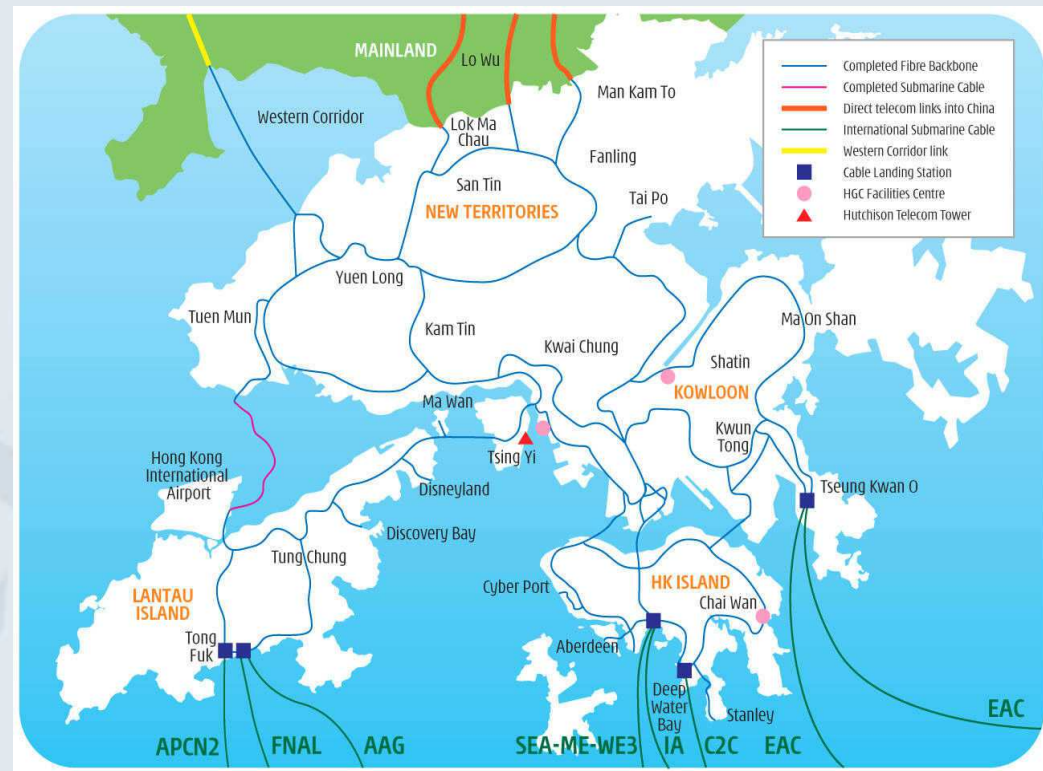
- Q & A

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About HGC - Hutchison Whampoa

- **5 core businesses in 53 countries**
  - **Telecommunications**
  - **Ports & related services**
  - **Property & hotels**
  - **Retail**
  - **Energy, infrastructure, investment and others**

- **Multinational** conglomerate with businesses spanning 53 countries and over 220,000 employees worldwide

- **HK$9,880 billion turnover of HTHK in year 2010**

About HGC - State-of-the-Art Fibre Network

Advanced and Ahead at all times

- Largest & most extensive 100% optical fibre backbone

- Self-healing network based on ring architecture ensures outstanding reliability

- Robust & proven superior fibre optic technology

- Scalable & unlimited bandwidth for all applications

Over 6,000 km of ductwork & 1,120,000 km of fibre optic cable

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RFI Review

HGC – listed service provider in all the 4 categories:

1. Cat. A: Productivity Apps – Office Tools and Suites

2. Cat. B: Business Apps – eMail Services

3. Cat. C: Cloud IT Services – Backup and Restore

4. Cat. D: Social Media Services – Photo and Video
   hosting and sharing

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HGC Cloud Services - Overview

Compute Services

- Public Compute-as-a-Service
- Private Compute-as-a-Service
- Hosted Private Compute-as-a-Service
- Provider Compute-as-a-Service
- Managed Hosting
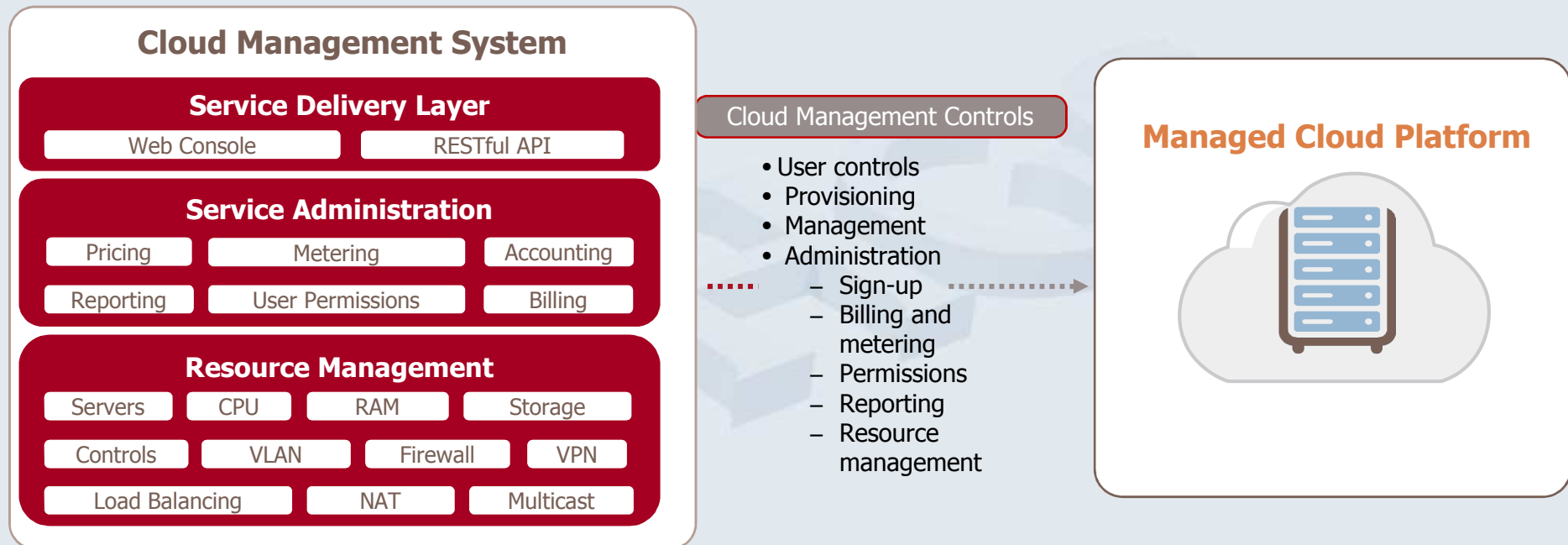
Advanced Cloud Services

- Security Services
- Backup & Disaster Recovery Services
- Virtual Desktop Services

Application Services

- Complex Web Hosting (SaaS)
- Hosted Microsoft Exchange
- Hosted Microsoft SharePoint
- Hosted Microsoft Lync

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HGC Cloud Services - Cloud Management System

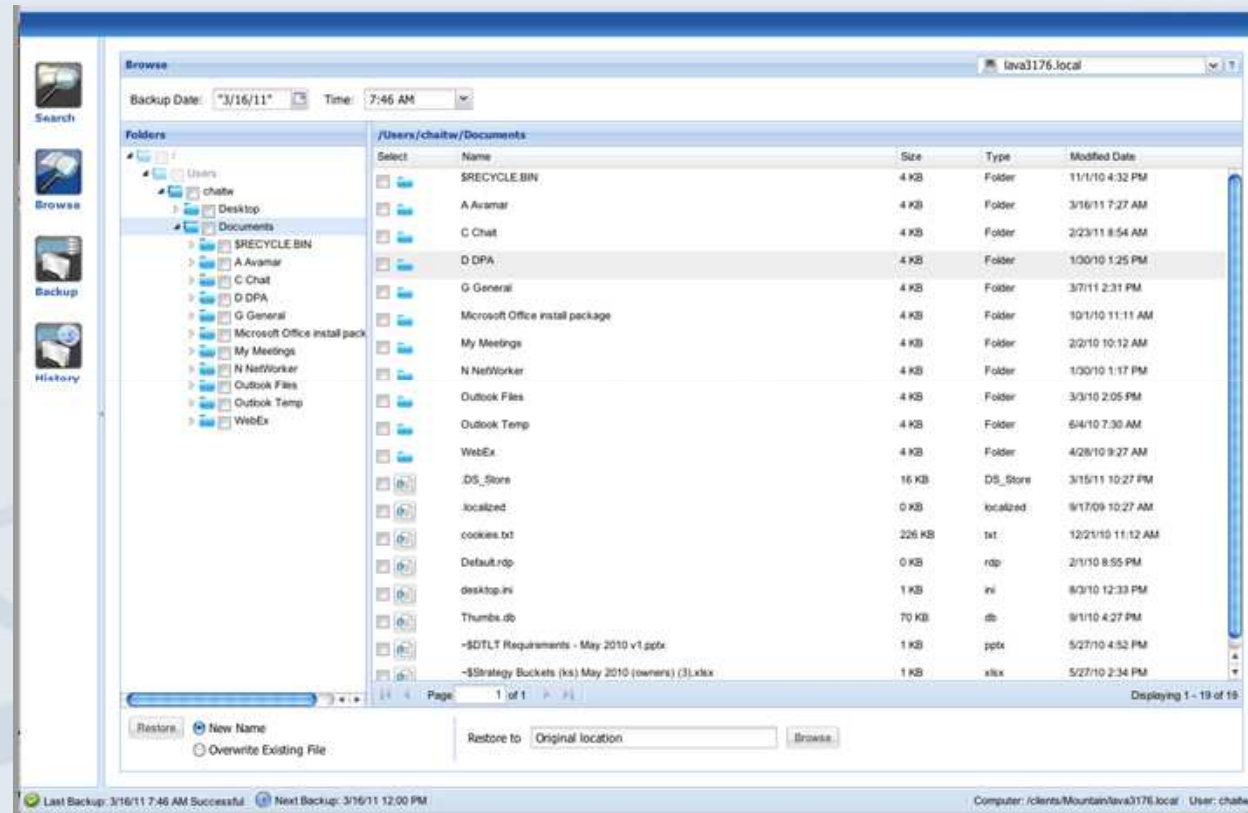Addresses the complexity of cloud orchestration, provisioning and billing
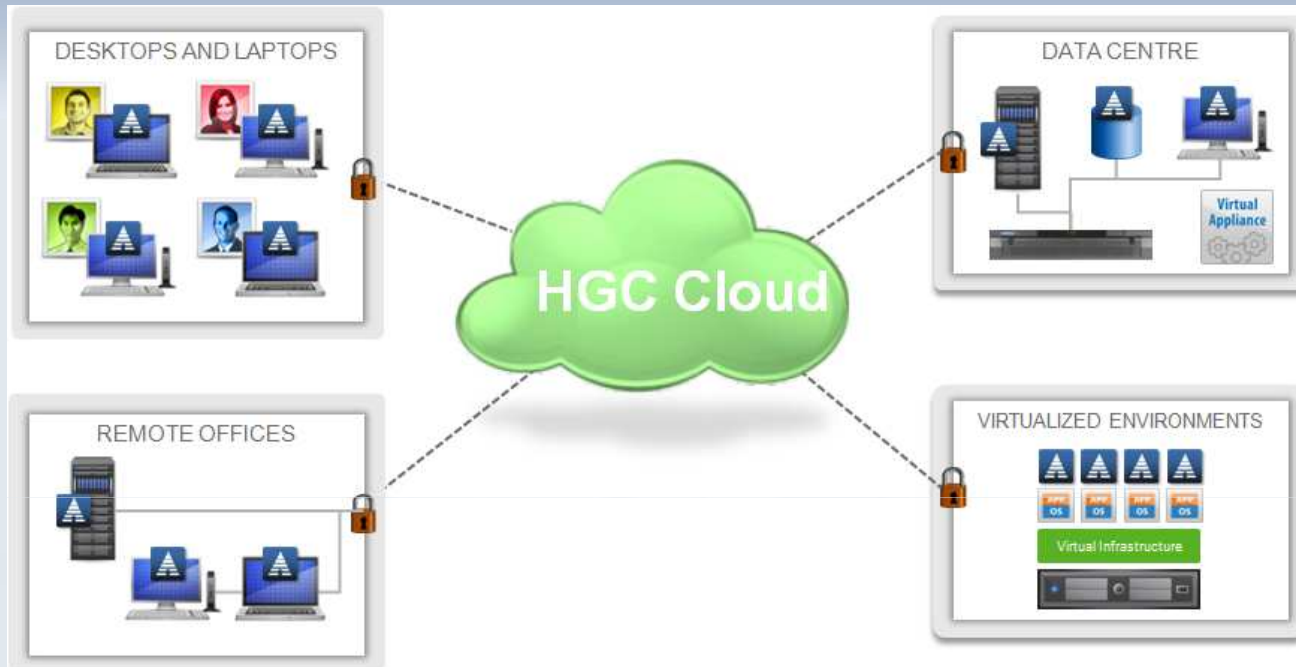
Cloud Management System

Service Delivery Layer
| Web Console | RESTful API |

Service Administration
| Pricing | Metering | Accounting |
| Reporting | User Permissions | Billing |

Resource Management
Servers	CPU	RAM	Storage
Controls	VLAN	Firewall	VPN
Load Balancing	NAT	Multicast

Cloud Management Controls

- User controls
- Provisioning
- Management
- Administration
  - Sign-up
  - Billing and metering
  - Permissions
  - Reporting
  - Resource management

Managed Cloud Platform

Cloud Management System

Orchestration   Administration   Billing   Provisioning   Management   Support   Federation

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Backup and Restore Service - User Interface

- Web-based

- File search engine

- Self-service

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Backup and Restore Service - Deployment

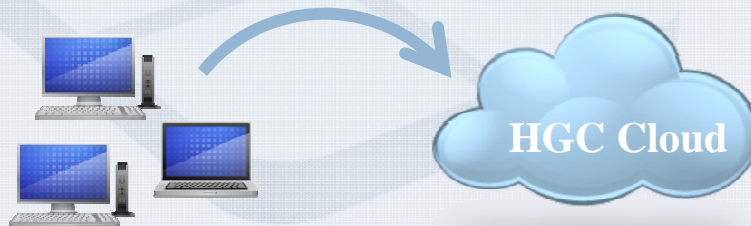# Backup and Restore Service - Typical Scenario

Background

- Financial Services Company
- Have regional offices and branch offices in HK
- Regulatory Requirements on Data Protection

Solution

- Provide Backup and Restore Service for customer's data protection
- Support regional offices, branch offices and offsite users' backup for desktops and laptops

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Benefits

- Meet regulatory requirements on data protection
- Protect all desktops and laptops in the offices and on the road
- Provide encrypted data protection through internal network or Internet connection
- Full backup everyday facilitates easy and efficient self-recovery by end-users
- Average backup time takes less than 20 minutes per desktop/laptop
- Lower IT department admin/support effort

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Backup and Restore Service - Highlight

Functionalities of Backup and Restore Service

Services

- Backup and Restore of data over the Internet

- Provide configurable schedule backup

- Support full backup and increment/differential backup

- Support backup of common databases, mail systems and file systems

- Provide multiple versions of backup

Security

- Support data backup in compressed mode

- Provide encryption of backup data to ensure data security

- Provide integrity checking of backup data integrity

- Provide encryption for stored data

- Support two-factor or multi-factor authentication

Availability

- Provide service availability for month: 99.5%

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Add-on Services

HGC Metro Networking Services

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Add-on Services - MetroNET / Metro Lambda

	MetroNET	Metro Lambda
Network Topology	Private; Point-to-Point, Point-to-Multi-Point, Many-to-Many	Private; Point-to-Point
Technology	Fibre-To-The-Office	Fibre-To-The-Office
Bandwidth	Symmetric, from 1Mbps to 1Gbps (Guarantee bandwidth)	Symmetric, from 1Gbps to 10Gbps (Guarantee bandwidth)
Network	Mesh MetroEthernet Nodes	Mesh DWDM Nodes
Security	High security based on layer 2 MPLS connectivity	High security based on layer 1 optical transmission

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- Q&A -

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- END -

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