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Sharing Best Practices (SBP) Workshop on Smarter IP Office Business Services

IPOPHL Management Information Service (MIS) Presentation on IPOPHL IT Systems Management - Infrastructure

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Outline

- **Network**
- **Server**
- **Security**
- **Challenges**

Current IT Infrastructure - Network

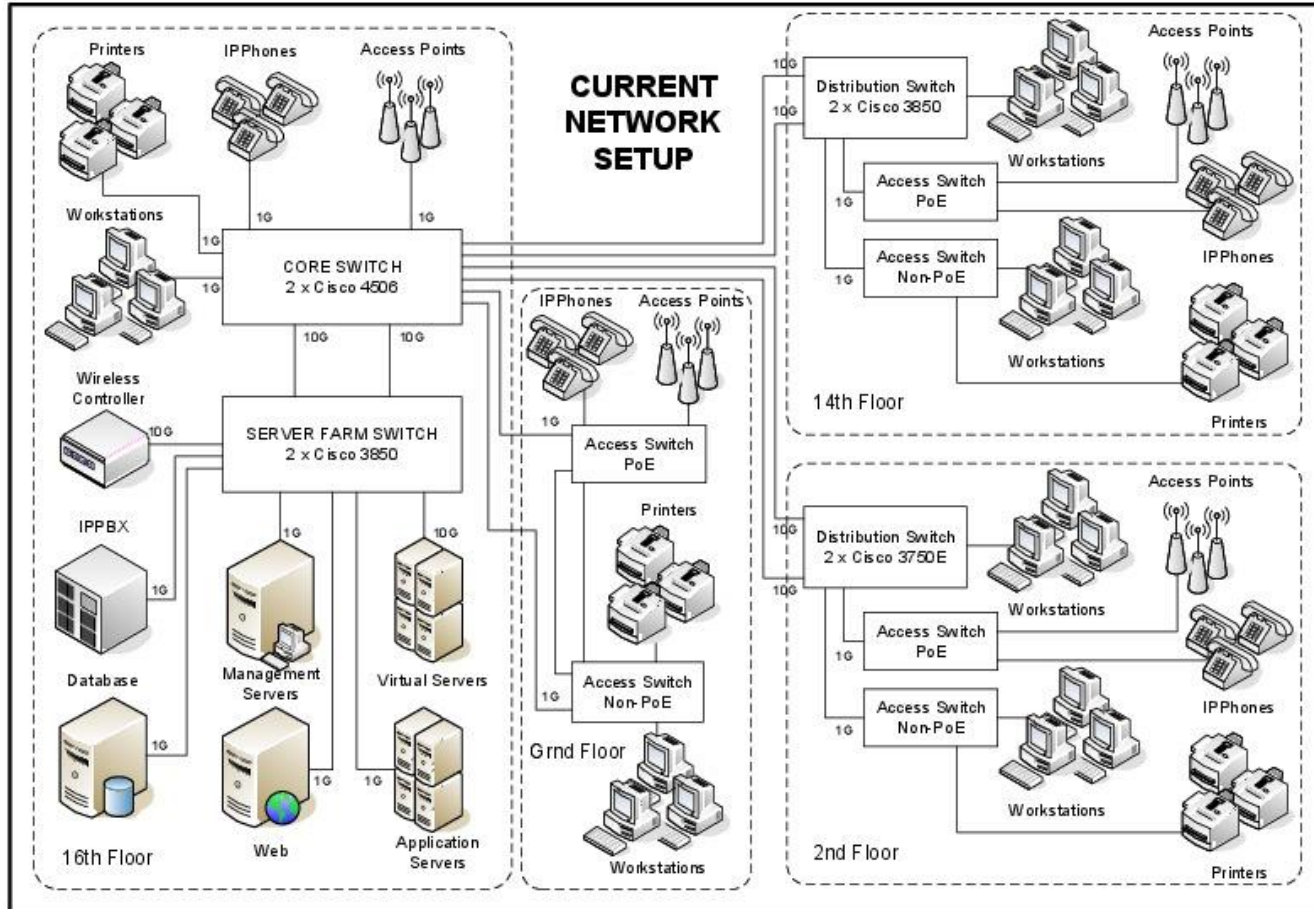
- **Main backbone is running on a 12-core fiber optic**
- **Segregated into different Virtual LANs**
- **Connection link from core switch**
 - **Servers – 2 x 10 GB**
 - **14F – 2 x 10 GB**
 - **2F – 2 x 10 GB**
 - **1F – 2 X 1 GB**
- **Access points are deployed in each floor**
- **One domain controller is implemented for domain structure resiliency.**

Current IT Infrastructure - Network



- **IPOPHL teleworkers are connected via Virtual Private Network in (VPN) accessing internal systems**
- **VPN used has 256-bit encryption**

Current IT Infrastructure – Network Layout



Current IT Infrastructure – Internet Connectivity



	Type	Mode	Speed
Primary	Leased-line	Fiber	150Mbps
Secondary	Leased-line	Fiber	130Mbps
EpoqueNet	Lease-line	Fiber	30Mbps

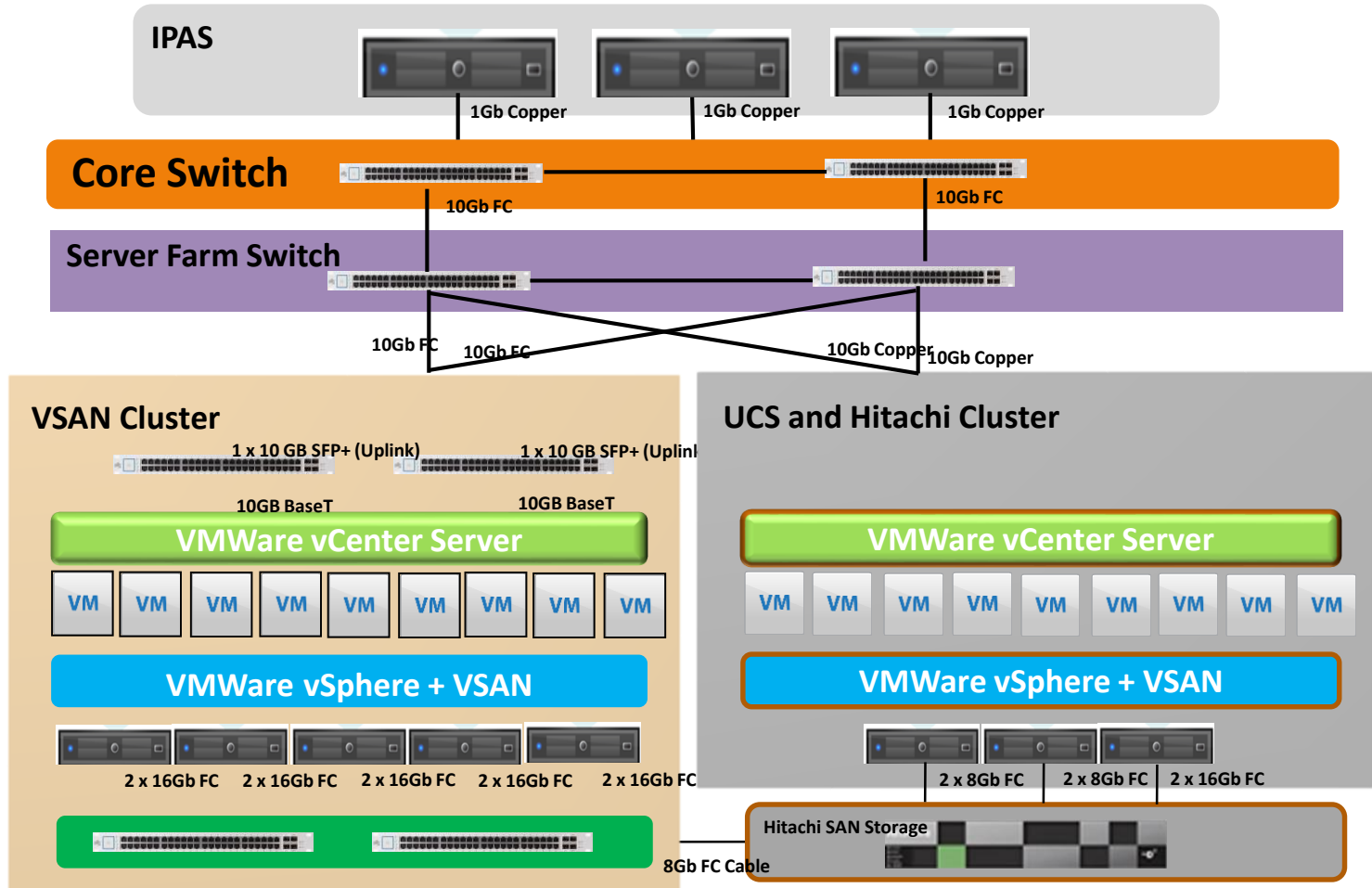
Current IT Infrastructure - Server

- **All applications are running on a hyper converged infrastructure (HCI) except for IPAS which runs on a separate physical server.**
- **Virtualization software**
 - VMware vSphere, VMware vCenter
 - VMware VSAN
- **SAN storage**

Current IT Infrastructure - Server



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Current IT Infrastructure - Security

- **A complete and integrated security solution is installed which consist of a firewall, IPSEC VPN, network and clustering software blade, and IPS.**
- **Cloud-based Web Application Firewall (WAF) to protect public facing websites against any type of application layer hacking attempt.**
- **Anti-virus, anti-malware, and ransomware are installed on user computers and servers.**

IT Infrastructure challenges

- **Technology obsolescence**
- **Data security**
- **Identifying opportunities for digitalization and using the right technologies**

How to make use of it to solve the issues



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- **Establish ICT replacement strategy plan**
- **Evaluate, plan and deploy emerging technology.**
- **Benchmarking with other advanced IP Offices.**



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