

IT Infrastructure Division Presentation

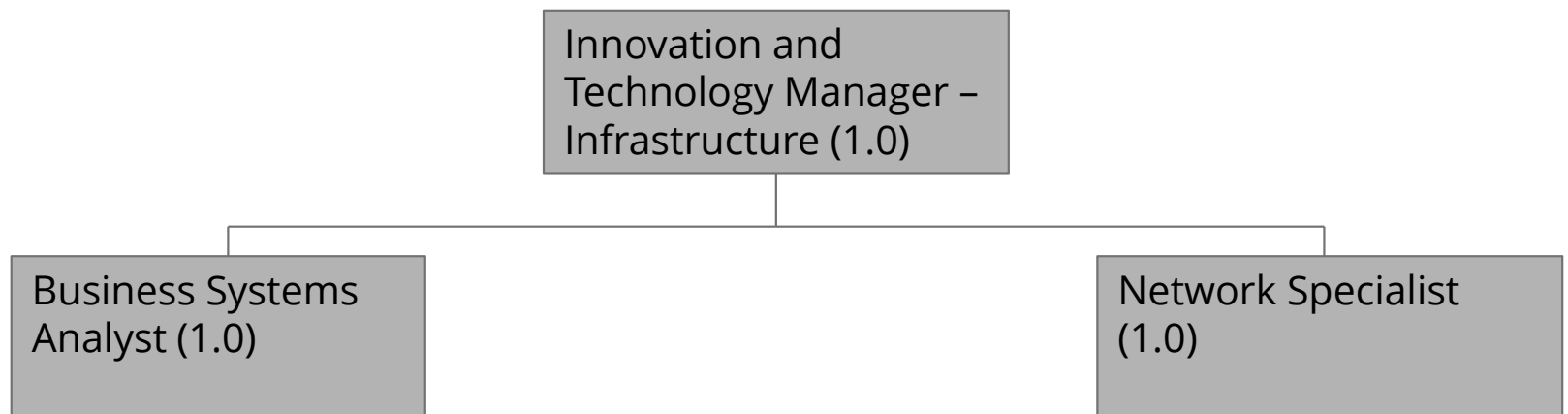
Overview



CUPERTINO

Infrastructure Team

Infrastructure Division: This division provides for all technology-related support for the citywide management of information technology services.



Infrastructure Team



Toan Quach
Network Specialist

- System admin
- Network admin
- Security admin
- E-mail / PRA
- Phone System
- Helpdesk
- Laptop / Hardware
- Wi-Fi / Cameras
- Cabling / Setup



Quinton Adams
Business Systems
Analyst

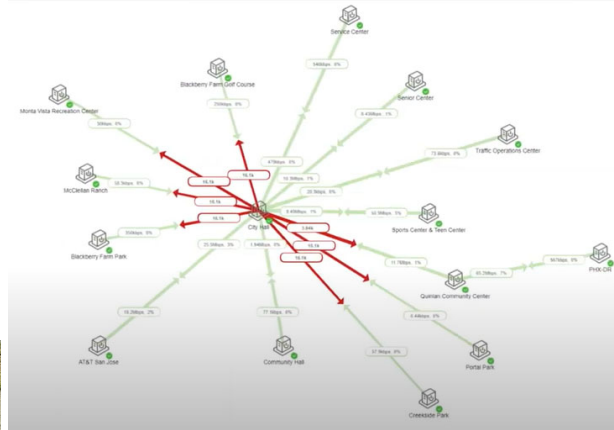
- Sr System admin
- Network engineer
- Security engineer
- Servers/backups
- Firewall / Network design



Tommy Yu
Infrastructure
Manager

- Project Management
- Budget / Procurement
- Staff supervision
- Sr System admin
- Network admin
- Security admin
- Policies / Compliance

Infrastructure Team in action



Infrastructure Core Offerings

Helpdesk & Customer Service

System & Network administration

Security

Business Continuity

Helpdesk & Customer Service

On/offboarding of employees, equipment and account setup/retrieval

Front-line support, respond to helpdesk tickets; on-call after hours

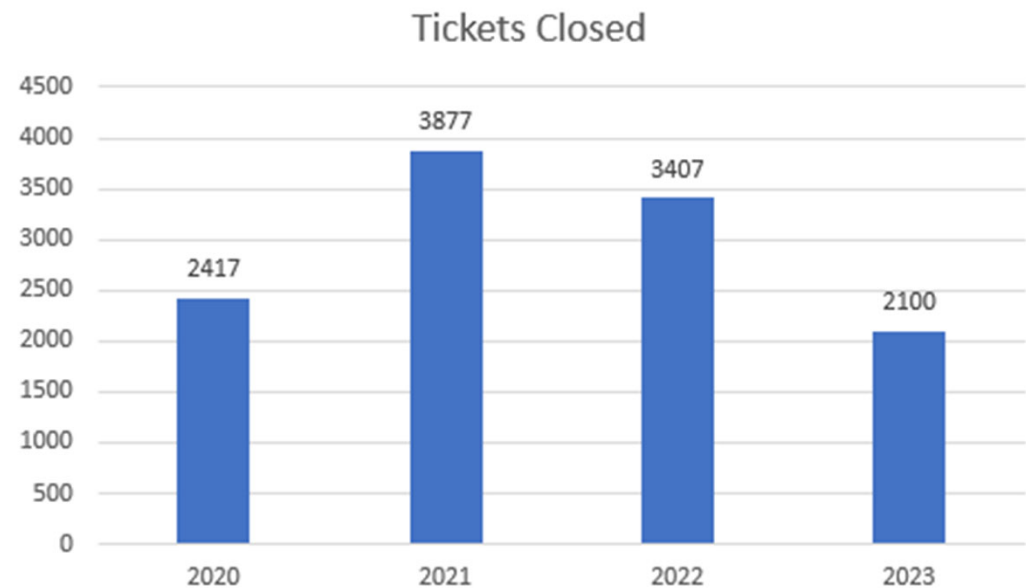
Inventory control, tech refresh of laptops and accessories

Moves/Adds/Changes; installs, relocations, upgrades

Phone system support: hunt groups, call routing

Helpdesk

- ❖ 2,100 Infrastructure tickets closed (1/1/23 – 10/24/23)
- ❖ Average ~250 tickets/month



System & Network administration



E-mail accounts, network monitoring/alerts; manage Wi-Fi for staff and guests at City Facilities

LAN – Firewalls, servers (Active Directory, file/print servers, SQL database etc.)

Wide Area Network – Internet and connectivity to sites

Virtual Private Network (VPN) – Support telework and remote access

Backup and recovery of critical data/systems

Inventory at a glance



- Equipment and services at 14 locations
- Over 1,600+ pieces of equipment supported



Security

- Endpoint protection – Antivirus/Malware/Spyware; Firewalls
- Managed Detection & Response / 24x7 Security Operations Center - logs
- Artificial Intelligence driven Network traffic analysis
- Ongoing Phishing campaign and security training
- Multi-factor authentication / Mobile Device Management

Business Continuity

- Incident response (breach, outage, ransomware)
- Disaster recovery (DR site, get services back online)
- Redundancy
- Policies, plans, and procedures
- Cyber Resilience: Tabletop exercises – Simulated incidents

Classes & Certifications

- ❖ Certified Government Chief Information Officer (CGCIO)



- ❖ Public Sector Leadership Academy



- ❖ Staff undergoes continuous training on the latest technologies





Resources and Best Practices

- ❖ Municipal Information Systems Association of California (MISAC)
- ❖ Cybersecurity and Infrastructure Security Agency (CISA)
- ❖ Multi-State Information Sharing and Analysis Center (MS-ISAC)
- ❖ National Institute of Standards and Technology (NIST)
- ❖ National California Regional Intelligence Center (NCRIC)
- ❖ Industry publications, blogs, news sources



Project accomplishments

- ❖ Transition to remote workforce / telework
- ❖ Deployed Public Wi-Fi at Wilson Park, Creekside Park, and Portal Park
- ❖ Traffic Operations Center / adaptive traffic project
- ❖ Installed security cameras at City Hall, Quinlan, Blackberry Farm/Golf, Senior Center, Service Center and Sports Center
- ❖ Quinlan BEAM interactive Augmented Reality system
- ❖ Cybersecurity Public Education & Science Fair event
- ❖ Rolled out Cupertino.gov e-mail address



Upcoming Projects 2023-2024

- ❖ Datacenter Tech refresh (server and storage environment)
- ❖ Air-gapped backup solution
- ❖ Network & Physical Penetration test
- ❖ Planning for future cybersecurity exercises
- ❖ Security cameras at McClellan, Quinlan, and Senior Center

Q&A

