

Choice Case Study

Network and Security Solutions for Robo Silicon

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Client Background

Robo Silicon is India's leading producer of the construction aggregates. Construction aggregates consists of primarily crushed stone and manufactured sand.

The company is having multiple locations across the country and several site offices on project sites. The problem they were facing was that there is no proper data communication link between the locations.

Project Background and Challenge

To update data the company used to take several days and sometimes weeks; due to non-availability of connection to central ERP server and resorted to sending copied media by courier. Users used to interact through internet and some times try to send important data as attachments which were highly insecure and data may fall easily in their competitor's hands without much serious efforts.

At the head office more than 60 users and servers existed but improper network devices and servers were used. Due to this the company was facing severe performance problems which in turn resulted in loss of man power productivity. This altogether was indirectly effecting the over all productivity and growth rate. The major bottleneck for the overall IT performance was the SAP, Storage, Mail Server and Domain Controller installed on normal Desktops.

Due to lack of data security the complete data of the company was vulnerable to the outside world. Outsiders can login to any server without many efforts and steal the data at any time.

Even for more than 60 users and the undergoing operations at the head office systems; Robo Silicon was using unmanaged switches which was creating lot of performance and troubleshoot problems within the network.

Existing IT Infrastructure,

- i. Desktops without licensing software
- ii. Unmanaged Switches to interconnect desktops
- iii. Cat 5e structured cabling
- iv. Broadband Internet
- v. Un-configured Videoconferencing equipment

At the head office more than 60 users and servers existed but improper network devices and servers were used.

Choice Role and Solution

Choice Solutions Ltd. provided the solution phase wise.

- i. Data Security
- ii. Cabling Replacement
- iii. Managed Switches
- iv. Servers for critical data applications
- v. Data Storage
- vi. Bandwidth across the locations
- vii. Video Conferencing

Choice Solutions replaced entire cabling structure with Cat6 structured cabling.

Choice Solutions Ltd. replaced the entire cabling structure with Cat6 structured cabling. Numbering was done on each port and I/O put for proper identification and which will make troubleshoot easy. For future expansion the cabling was scalable for all giga ports. This was done to accommodate increase in desktop numbers and for future bandwidth hungry applications.

All the switches were replaced with SNMP enabled with advanced QoS features. This has enhanced the performance of the complete network and made it easy to manage the network from central location. All the 10/100 port data will flow to central core switch through giga uplinks to avoids the data flow bottlenecks.

Two different internet service providers were getting terminated on Unified Threat Management Device which would take care of link load balancing of internet bandwidth. This had helped the customer to secure their data from viruses, Trojans, spywares, SPAM, etc at the gateway level itself. This helped the customer to block unwanted sites to their users per GroupWise or user wise depending on the requirement. This feature also helped the organization to save user productivity and hence also increased the over all productivity of the organization. It also provided the perfect reporting on user usage of bandwidth and sites and provided perfect Servers for their critical applications and data. This increased the overall performance and security of the central data.

Choice team recommended MPLS WAN backbone on which all WAN data and Video conferencing solution could be configured.

At the client's site, video conferencing equipment which was lying in their store room without any usage was configured for communication between Hyderabad and their Bangalore office. To get the WAN links secured and to be cost effective, the Choice Solutions team recommended MPLS WAN backbone on which all WAN data and Video conferencing solution could be configured.

Client Benefit

Choice Solutions team in conjunction with the technical team of Robo Silicon worked closely for this project. The team modified the IT Infrastructure according to the clients required solution:

To address all the problematic issues Robo Silicon opted outsourcing the IT Consultancy. Robo Silicon identified Choice Solutions as their IT consultancy partner and addressed most of the above issues by now and still suggestions and implementations are going in phase wise.

The team modified the IT Infrastructure according to the clients required solution:

About Choice Solutions

Established in 1991 Choice Solutions Ltd. is a leading IT and Facilities solutions provider. Choice Solutions Ltd. business comprises of Six different practices, namely

IMS

- Desktop, Server, Network, Storage, Support, OS, Assets, Apps, Non IT
- Hardware - A-Add, M-Modify, I-Install, C-Change, R-Repair
- Assets, Security, Software Distribution, Upgrades

Networking

- Packaged Services Monitoring & Management
- Products, Security, Design, Deploy, Maintain
- Auditing & Compliance, SOC

Datacenter

- DC Audit, Monitor & Manage, Training
- Assess, Design, Built, Deploy, Disaster Recovery

Consulting

- Business Consulting, CIO & Technology Services, Physical Security, Power Devices, IT Consulting
- DC Consulting, ERP, CRM & Custom Apps

Cloud Computing

- Cold Site – Backup, Disaster Recovery
- Hot Site – HaaS, Software, Manage
- Public Cloud, Private Cloud, Hybrid Cloud
- CaaS, License Software, IaaS
- Disaster Recovery

Power

- Power Audit, Equipment Management
- Physical Security, Power Devices
- Power Saving Devices
- Design & Audit
- Renewable Energy Products