

CASE STUDY

ON

IT INFRASTRUCTURE FOR A LEADING MANUFACTURING COMPANY

PREPARED BY

**INTSYS
TECHNOLOGIES**

ABOUT CLIENT

The client is an industry leader in manufacturing of automobile components. The client was founded 20 years after Independence and grew quickly through both rapid organic growth and several acquisitions. Their ability to identify the trends ahead of time and bring the right products and services to market was a differentiator in their industry.



CHALLENGES

Effective network structure and cabling is the essence for smooth deployment of IT solutions. At our client factories and office, the network structure was laid in 2010 back and over a period of time several augmentations/additions were done arbitrarily which resulted into following scenario:

1. Switches cascaded with each other to meet immediate requirement.
2. Variety of switches and hubs with many under no warranty or AMC
3. Unstructured cabling with no codification and laid randomly leading to traceability and resolution issues in case of network failure.
4. We do not have any managed Layer 2 or Layer 3 network switch thus leading to network being unsecured and in broadcasting zone instead of unicast.
5. Cables are laid in un-structured leading to issues in speedy / quicker resolutions.
6. Loose connections lead to network performance losses
7. Network not equipped to support modern requirement of unified communication and high-speed data transfer.
8. Additional securities if required on port level can't be deployed.
9. Existing flat network design and due to above reasons network not equipped to handle any data centric activity such as File Server, CCTV and Video conferencing.

SOLUTION OFFERED

The Clients Team approached Intsys to study the existing system and submit the comprehensive solution. Post detailed study and site survey, we proposed a comprehensive revamping of the Network structure which primarily comprised of following :

1. Cabling

- o Laying of the Optical Fiber within the periphery of every plant.
- o Deployment of Cat-6 cabling within plant.
- o Segregation of ERP, HRMS, LPCMS and E Mailing, CCTV and VC traffic with other business applications.

2. Switching

- o Deployment of Layer 3 Managed Switch (CISCO) at Plant Gateway level. This will facilitate routing controls and V-Lan creation for secured sharing of data within departments.
- o Deployment of Layer 2 Managed Switches for intermediate sub-location connectivity within plant.

3. Network

- o Ring Network topology within plant to ensure that breakdown of the link at one point does not leads to network failure and it continues from other direction.
- o Network Cables to be re-laid following the structured cabling norms with use of Patch Panel, Racks, Casings, Patch Cords, Poles and I/O terminations.
- o Centralized Wi-Fi controller to be deployed with Access Points at all the locations. This will enable smooth access to visiting official executives besides enhanced security in place.

HOW SOLUTION HELPED

Compared to the earlier setup, the new network reduced the time required to access, store and upload data.

The project started from one primary plant and in phased manner covered all plant locations (6 Nos) and offices / branches.

Today the clients network is completely revamped, is stable with 99.9% uptime and CCTV (355 Nos) and a VC solutions have been deployed.

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