

# Choice Case Study

## Active Directory Consolidation and Re-Architecture Solution for Lanco Infratech Ltd

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## Client & Project Background

Lanco Infratech Ltd is one of India's top business conglomerates and among the fastest growing.

Lanco Infratech has subsidiaries and divisions across a synergistic span of verticals. These include Construction, Power, EPC, Infrastructure, Property Development, and Renewable.

Lanco Infratech's projects, operational and underway, are spread across India.

## Project Challenge

### Active Directory Consolidation and Re-Architecture

The LANCO IT team initiated a requirement for consolidating their multiple Active Directory forests to a single domain active directory model. Separate active directory forests were implemented across all their office which did not offer centralized directory architecture.

The need for centralized management and administration became a pain point which had to be streamlined and addressed according to Microsoft's Design Guidelines and best practices. Further consolidations required migration from the old forest to the new Active directory domain.

All the above posed a big challenge for LANCO as consolidation was not only the prime requirement but also the Active Directory Domain Design and the OU structure had to be re-worked and understood before going forward.

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### *Active Directory Consolidation and Re- Architecture*

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## Choice Solutions Role & Solution

Choice Solutions Ltd. engaged LANCO in designing and planning an Active Directory model as per their requirement. The Active Directory architecture planned was a Single Forest – Multiple Domain Model. For simplicity, ease of administration and management Microsoft recommended a Single Forest – Single Domain model however in our proposed design we opted for the above as LANCO has different business units which required isolation and thus maintaining a security boundary amongst each other is a must.

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*Active Directory architecture planned was a Single Forest – Multiple Domain Model*

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Organization Unit delegation for different units was also ruled out as one of the options proposed. This gave rise to a Parent and Child Domain Model. LANCO had its head office in Hyderabad and other offices spread across Hyderabad and Gurgaon. The Parent Domain was designated to be deployed in the Head Office and required migration of users, computers and groups from the old active directory to the new Windows 2003 R2 Active Directory forest. Root Domain Controller and Additional Domain Controller were set up for the new Active Directory in the HO and configured as per the best practices.

Migration of groups, users, computers and shares were carried out and the old domain was then decommissioned. Child Domain Controllers and Child Additional Controllers were implemented at the other offices across Delhi and Hyderabad and migration was performed there too.

## Key Solution Components

- **Domain Controllers:** Windows 2003 R2 64-bit Domain Controllers
- **Domain Controller Layout:** Root Domain Controller & Additional Domain Controller in the Head Office. Child Domain Controllers across other offices.
- **User's Migrated:** 1000
- **Group's Migrated:** 100
- **Computer's Migrated:** 800

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*Root Domain Controller & Additional Domain Controller in the Head Office*

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## Client Benefit

- i. Single Active Directory Forest across the globe
- ii. Multiple Child Domains for different Business verticals thus providing stringent security boundaries amongst each other
- iii. Streamlined OU structure for each domain
- iv. Streamlined Group Policy structure for all domains

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*Multiple Child Domains for  
different Business*

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## 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