



Bringing Ideas to Reality
Case Studies



Data centre designing & connectivity solution for Religare

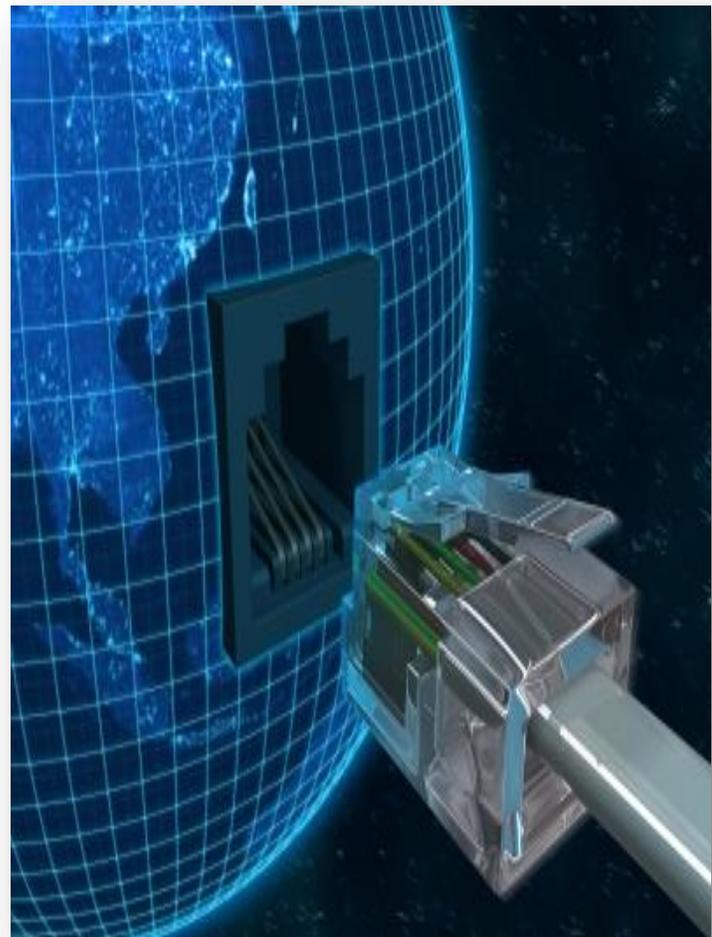
About Religare

Religare Enterprises Limited (REL) is one of the leading integrated financial services groups of India. REL's businesses are broadly clubbed across three key verticals, the Retail, Institutional and Wealth spectrums, catering to a diverse and wide base of clients.

The vision is to build Religare as a globally trusted brand in the financial services domain and present it as the 'Investment Gateway of India'. All employees of the group guided by an experienced and professional management team are committed to providing financial care, backed by the core values of diligence and transparency.

Summary of the project:

IBM approached Targus Technologies Pvt. Ltd. (Targus) in helping them design a Data Center Structured Cabling Solution (SCS) for Religare comprising of 110 racks divided into two phases over a period of 6 months





Bringing Ideas to Reality

Case Studies



Business Challenge

In September 2008, IBM approached Targus Technologies Pvt. Ltd. (Targus) in helping them design a Data Center Structured Cabling Solution (SCS) for Religare comprising of 110 racks divided into two phases over a period of 6 months. These racks were to hold different equipment ranging from Blade Servers to Cisco equipment. The Data Center is divided into five areas namely: Staging Area, Mux Room, High Density, Medium Density & Network Area.

The challenge was to provide rack to rack connectivity between these five areas in a fashion as to allow flexibility in providing fiber and copper connectivity with sufficient redundancy.

Following were the specific requirements of Religare and were to be incorporated into the design of the SCS for the Data Center:

- No manual termination was to be done during the implementation of the Fiber Solution, this would allow minimum amount of losses and would avoid any human error that may arise due to physical termination of fiber
- Minimum amount of space was to be used for the passive equipment inside the racks
- Ports should be easily identifiable when seen from a distance, which would in turn help in faster trouble shooting etc.
- Expandability should be possible on a later date without having to increase the number of jack panels in the Server Racks.
- Sufficient space should be available in the Network Racks so that further jack panels can be mounted in the future

IBM also wanted Targus to design the rack placement in the Data Center along with the cable tray positioning under the false floor in the Data Center for which exact measurements were taken.



we are committed to providing
the highest standard of work,
service and understanding of
client needs



Bringing Ideas to Reality

Case Studies



Network Solution

AMP NETCONNECT product line was recommended by Targus and eventually used for the implementation of the Structured Cabling Solution for the Religare Data Center. Targus recommendation for the use of AMP product line was for the following reasons:

- Tyco Electronics offers a full array of AMP NETCONNECT high performance products for Data Centers and storage area network applications. All designed for fast and easy field termination with minimal field training. Combining pre-tested, pre-terminated cable assemblies and cassettes makes installation as simple as: mounting the cassettes, pulling or placing the cables, and plugging the cables into the cassettes. Due to this the network is up in days and does not take months to implement the solution.
- With the use of AMP NETCONNECT Open Frame Racks we were able to save sufficient space with proper cable management and space for cable dressing. In order to facilitate and increase the amount of space inside the racks Targus suggested the use of AMP angular jack panels which allows for the elimination of horizontal cable managers and saves up on U space. This also allows for further expansion for the future.
- Targus recommended the use of unloaded jack panels for optimum use of space and for cost optimization. With the use of unloaded jack panels it is also possible to use different color information outlets for easy identification of ports from a distance and for easy trouble shooting. An additional advantage of using unloaded jack panels is the ease with which changing the information outlets, in case of malfunction, becomes without having to disturb any of the adjacent ports.

In depth discussions were held between Religare, IBM & Targus for the designing of the cable trays and rack placement in the Data Center. Targus suggest minimum distances to be maintained for good data throughput. The cable tray design was done in such a manner as to allow for abundant space for cable laying under the false floor and allow the cable to breathe which in turn would give optimum cable performance. Special attention was given to maintaining maximum distance possible between the power cables running and the data cables that were to be laid.

With the help of AMP NETCONNECT product line and Targus Cabling Solutions expertise, Targus was able to deliver a customized Structured Cabling Solution for Religare Data Center within the budget and timelines specified by the customer.



With Targus
There is, always a solution