



Case Study JRC PALLADIO

# How a FTTH Solution replaced Multiple Cables?



## OBJECTIVE

To provide high speed Internet, CCTV Surveillance, Digital TV channels & Telephony (Digital / Analog) across the project.

## Challenges

- The customer's intend to provide the most advanced IT and Electronic Security services based on the market requirement that was not considered in the initial stage of the project.
- Cable pathway design (conduits) and connectivity was not adequate for the customer's objective.
- There were challenges to implement conventional cabling solutions for multiple services (Data, Voice, Video & CCTV).
- Due to inadequate conduit size and its connectivity, there were challenges in laying multiple cables across the project.
- Customer had a concern to maintain artistic value of the project while choosing the design of Outdoor Distribution Frame (ODF).



## The Solution



- In order to fulfil this requirement, we designed & implemented the best communication pathway based on FTTH architecture to build a robust & future ready network throughout the project.
- Using Wide Area Network (WAN) on optical fiber as the best solution for high speed, high quality residential area networking, we replaced multiple telephonic, internet, CCTV and cable TV lines.
- We designed a network with Fiber to The Home (FTTH) which provided triple play (High-speed Data, Voice & Video) services to individual villas, CCTV Surveillance from common area to communication room through a single fiber optic cable.

### How long did it take to get up and running?

- We took 90 days to design, implement and test the network at each villa.

### Did that meet your expectations?

- Yes, we delivered the solution by providing multiple services (Internet, Telephony & DTH TV Channels) to individual customers in the project.



### In what ways does that enhance your competitive advantage?

- We reduced the cost upto 40% by integrating all services (Multi-DTH (MDTH)/MSDD, High-Speed Data with 3 ISPs' & Intercom along with CCTV surveillance for the entire project) into a single network.
- Using Unisol's customized products, we were able to deliver the solution which reduced the cost & also maintained the artistic value of the project.



## Result:



- We connected 32 IP CCTV Cameras across the project & made a provision for 62 cameras for future expansion without altering cabling Infrastructure.
- Delivered High-Speed Data/Telephony & Digital TV Channels through a FTTH (single fiber optic cable) for 215 Villas, Club house & made a provision to extend up to 650 Villas.
- The customized Outdoor Cabinets (ODFs) and CCTV Pole/Brackets designed & manufactured by Unisol complements the project theme.

## Future Plan for JRC:

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- Future Plan is to expand the project to 650 Villas with advanced IT Infra & electronic Surveillance with Video Door Phone (VDP), Home Automation to the entire project.
- Made a provision to deliver a bandwidth of 2.5Gbps to individual Villas along with Intercom/External Telephone Services.
- This network can provide TV Channels from multiple services such as TATA PLAY/AIRTEL/VIDEOCON etc., from the Central Server Room without having individual Dish antennas on Terrace using MDTH solution.

## About JRC Palladio:

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- JRC Palladio is an exclusive collection of Greco-Roman Villas based on the designs and principles of legendary Italian architect Andrea Palladio located near Sarjapur, Bangalore.
- These 3/4 Bedroom Classical Villas feature an open-to-sky courtyard, deck, double-height space living as well as a multi purpose hall with much detail given to the concept of a holiday home within your house.



## Contact Details:

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080-46990566



[info@unisolcommunications.com](mailto:info@unisolcommunications.com)



321, 2nd floor, 12th cross, 1st Main Rd, Pai Layout,  
Krishnarajapura, Bengaluru, Karnataka 560016, India.



[www.unisolcommunications.com](http://www.unisolcommunications.com)

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