



About Techmech Engineers

TECHMECH ENGINEERS was established in 1985. The firm started with electrical contracts in Karnataka state, executing multiple projects throughout India. They started with a small turn over and gradually diversified into distribution of contactors for Telemecanique France. The company has diversified into Home Automation and Office & Industrial automation, Design and fabrication of Control Panels.

Requirement

Company has started Housing Project of 6 Very High end Villas in the center of Bangalore. They wanted to provide converged Home automation solution to these villas. They were looking for intercom, level 1 Security along with RFID card Integration for their villa and maintenance staff.

Solution Offered:

Cohesive did a Pre-Sales activity of the project and found 2N (Video Door Phone with RFID) and Grand-stream (IPPBX & Video Desk Phones) not only offered the required solution but a totally integrated platform helped deliver a better than expected Solution. We have placed Video Door Phone at the main gate and Video Desk Phones inside each villa. All the Phones and Video Door Phone are integrated with Grand-stream UCM 6102 IPPBX.(An IPPBX with UC and Video Router Capability) This setup helped establishing video intercom among the villas and also provided 1st level security.

The control of opening the Main door was given by the Desk phones inside the Villas along with the Video and Voice capability with Live Streaming.

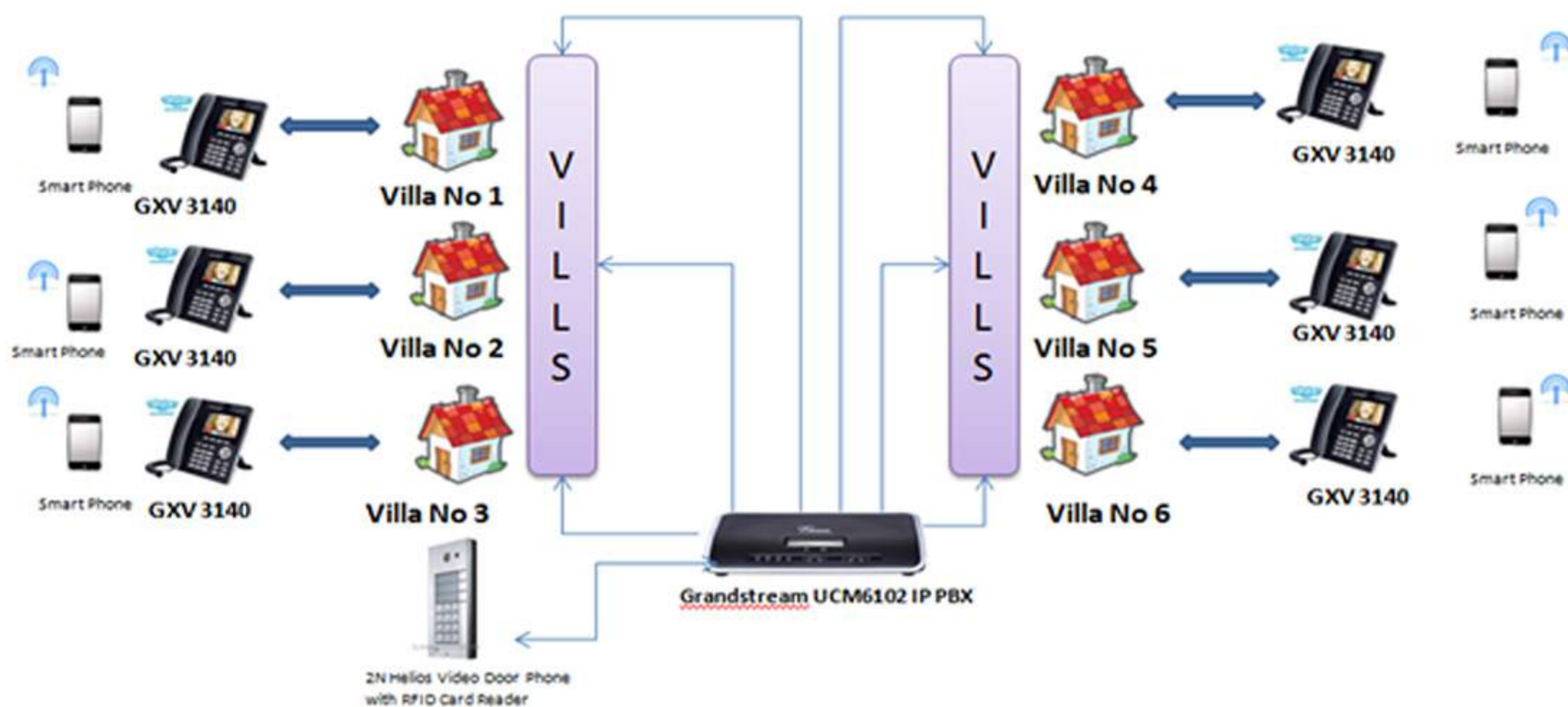
The Live streaming at 2N also helped us save the cost of installing a camera at Main gate as VDP (2N) not only worked as an Access control but also helped us in surveillance and being ONVIF we were able to stream it on 3rd Party VMS software.

The villas management has issued RFID card to their maintenance staff, which also helped the management to track the exit & entry of the staff. In future they want to have SIP Cameras for the surveillance purpose.

We are serving the world with New Technology by Converging Voice, Video, Data and Mobility on one Platform.



SCHEMATIC DIAGRAM



Advantages (Grand stream Dect Phones)

- **Multiple Extensions can be created**
The UCM box supports 500 Extension without any license.
- **Smart Devices can be configured to 2N Door phone:** We can configure smart devices like tablets and Phones by downloading 2N app from the internet. So that we can open the door lock from your smart phone or Tablet from remote location (Provided your device has internet).

Surveillance Cameras can be connected:

- We can integrate surveillance SIP cameras with the Grand stream IPPBX. This helps in viewing the cameras form your video phones on dialing the extension of the cameras.

IP Video talk:

- On providing internet to the phones, we can establish video call between any of these Grand stream Video Phones free of cost anywhere in the world. It consumes approx.150-160KBPS of bandwidth.

About Cohesive Technologies

- **Expertise in VOIP Solution** – Provide state of art technology for voice and video network.
- **Dealing with Best Brands**
- **Act as a consultant / System Integrator** – Takes care of customer's current as well as future need.
- **Cost effective Solution** - Solutions got well fitted in customer's budget
- **Built-In PoE**
- **Reach in PAN India** - Cohesive has offices at all Metros /Cosmopolitan cities and have partners across India, which gives confidence to Customer for support and installations

Products

