

Gated Communities

Communication
& Security solutions





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1. Introduction

Vox is a leading telecoms operator, providing voice, data and collaboration services to the South African market. The Group competes in both the business and consumer sectors and has primary offices in Johannesburg, Pretoria, Durban, Cape Town and Port Elizabeth. Vox, incepted in 1998, has established itself as one of the major players in the telecoms market and is one of the largest black-owned telecommunications and ICT integration companies in South Africa.

As a licensed network operator, Vox provides a suite of comprehensive enterprise, SME and consumer telecommunications solutions that include alternative voice solutions, data access and ISP services, cutting-edge cloud services, a variety of PBX and video conferencing services, telephony management systems, the Internet of Things (IoT), faxing and text messaging applications.

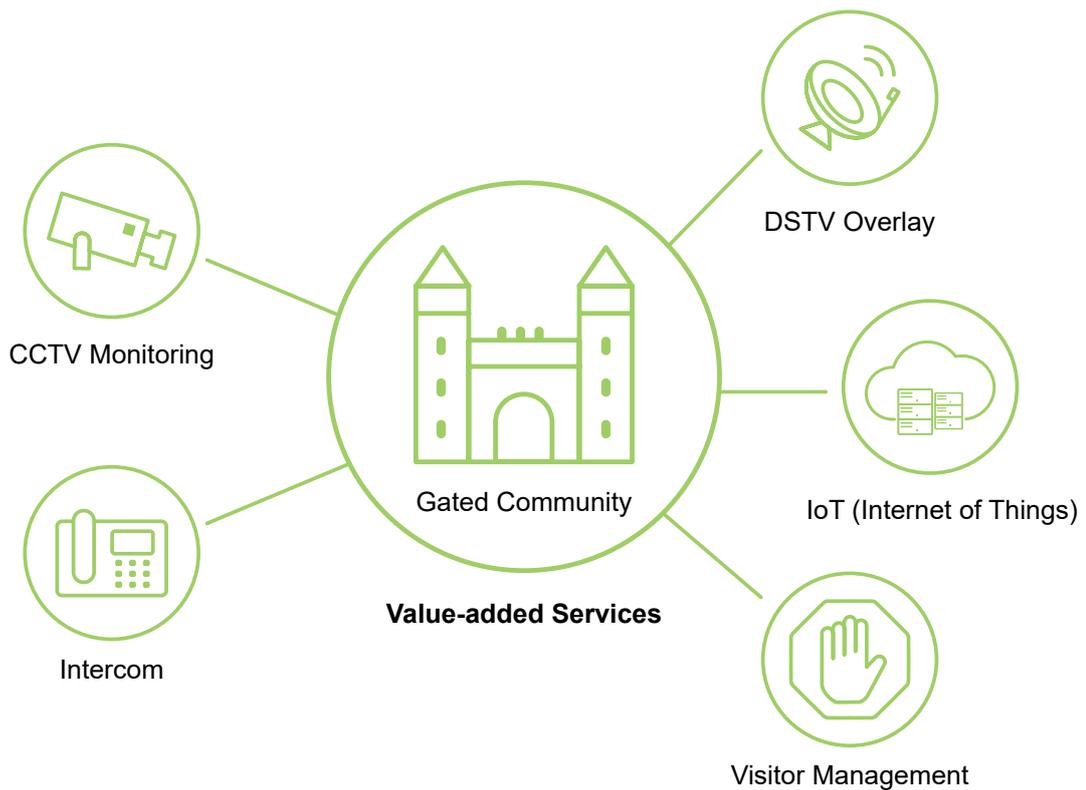
2. Unlock the value of FIBRE

Most customers elect to move to a fibre connection to obtain higher data speeds. Although this is the most general motive, there are a range of value-added-services that can be unlocked using a fibre connection. With high-speed internet, we can deliver a range of bandwidth intensive consumer and business solutions like streaming, and cloud-based applications including comprehensive security solutions to our customers. More importantly, we can deliver all these solutions on a single strand of fibre instead of running multiple pairs of cables.

3. Solution overview

Vox has developed solutions specific for gated communities that can be deployed using the existing fibre infrastructure. These services have been developed to (a) enhance the security of the residence, and (b) improve the value of the property. This ever-growing list of technology-based solutions include, but are not limited to, the following:

- Video surveillance as a service
- VoIP (Voice over IP)
- Access control
- Parking management
- Visitor management system
- Visitor analytics
- Intercom system
- DSTV overlay via fibre
- Video-on-Demand
- IOT (Internet of Things)
 - Utility metering & management
 - Asset management
 - Tamper management
 - Moisture, temperature and humidity control





4. Intercom and intra-community communications

The first and valuable building block in communications within a gated community consists of a stable, reliable and scalable telephony platform that not only allows for contact between residents and their gatehouse to facilitate a secure access- controlled environment, but also allows for intra-community communications between residents – all at no call cost.

Our intercom services make use of handsets deployed in each home, together with an ONT provided by FrogFoot. While making use of FrogFoot fibre within the estate, we ensure the estate maximises their investment in this infrastructure. .

Each house will have an extension number created on the telephony platform that will allow for the gatehouse to contact a resident before allowing visitors access into the property, and vice versa should a resident be required to contact the gatehouse to pre-authorise a visitor's entrance.

Should the requirement exist, the gatehouse will have the ability to make outbound calls – this may be necessary should a resident's home number go unanswered and the gatehouse is required to contact the resident on their cell phone or an alternate, external number. Furthermore, residents will have the ability to port their existing landline number to Vox Telecom (or be issued with a new Vox non-geographic number should they not have an existing number to port), to utilise the Vox Telecom network for outbound voice calling and exclusive Vox Telecom voice services which comprise of either an uncapped voice or a bundled minutes offering.

5. Visitor Management System

As part of this phase, the gated community can also add a visitor management system that will give the guardhouse the ability to capture visitors for analysis and to be used in the event of any incidents. The system will comprise of a robust handheld scanner for the entrance and exits, to allow for accurate data collection of visitors. The system will also allow for the residents to pre-invite their guests.

The most basic option allows for guard-less access at unmanned gates. Visitors are invited through a mobile application. At the gate, a pin code is entered or QR code scanned, and access is granted into the facility. The more advanced product allows for bidirectional communications between residents and estate management, with the ability to bulk distribute documents such as meeting minutes or notices through the service; both online and on the mobile application.



A comprehensive helpdesk and workflow is also included, allowing residents to log faults and complaints, and track progress thereof.

Other added benefits:

- POPI compliance
- Linking vehicle, registration and driver

6. CCTV Solution

In addition, we are aware that gated communities may require cameras to be positioned around the perimeter and at the guardhouse to add extra security and protection to the residents.

Our CCTV solution provides onsite DVR, recording of events for reference and additional security deterrent for any possible perpetrators.

Value-added services that we can provide on the back of an installation, include:

- Offsite monitoring
- Remote access management
- Interaction with armed response
- Detection of unusual behaviour
- Consolidated security report

7. Number Plate Recognition

Number Plate Recognition provides the gated community with the tools to capture and verify automatically with the SAPS database, to authenticate visitors and to alert the guards at the entry point of any previously listed unwanted individuals. The system also allows for analytics regarding the history of a vehicle, should there be an incident or any suspicious behaviour.

Why is it important:

- Capturing of the vehicle details
- Integration into the SAPS Unicode database which lists all stolen vehicles, or vehicles wanted in connection with a crime.
- Application of immediate action in the event of suspicious credentials
- Post-event analytics



8. DSTV Overlay

By using sophisticated signal conversion, splitting technology and utilisation of broadband fibre networks, a DSTV overlay allows just one satellite dish to provide full DSTV services to up to 256 homes or units in a single complex, estate or housing complex.

Considering a DSTV overlay and important benefits for an HOA:

- Cost-saving for the homeowner
- Fewer cables and only one DSTV dish
- Single Systems Integrator for installation into a central servicer room for better control and maintenance
- Upgraded DSTV communal distribution system with signal at the speed of light and through the fibre network to a dedicated point in the home or unit

9. IoT (Internet of Things)

The primary objective of smart home automation is to offer convenience and security to residents. This technology makes life easier, safer and more efficient. The perception of home automation is to take care of the regular needs of your family and loved ones. The future of luxury gated communities is to utilize smart home automation to offer greater protection to residents, encourage eco-friendly living and decrease overall costs with resource conservation. They are being built through the implementation of advanced technology for greater connectivity and accessibility within the area. This allows residents to take control of their living space like never before.

Thanking you,

The Vox Team

