8/29/2024

ORGANIZATIONAL VIEW

**Group Members:**

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LORAX GROUP

**Project Name**: Central Karoo Community Network Project

**Project Manager**: Dineo Thobejane

**Project Sponsors**:

1. Mayor's Office, Central Karoo District

2. Telkom South Africa

3. First National Bank (FNB)

**Background Information**

Central Karoo, once a bustling town reliant on the national railway, has reverted to its agricultural roots following the collapse of the railway industry. This shift has left the district poorly connected in terms of fixed telephony and internet connectivity. Despite the progressive rollout of 5G, coverage and quality of communication services remain inconsistent and unreliable. With a population relying heavily on agriculture and limited access to modern communication infrastructure, the need for a reliable, interconnected network is paramount.

**Mission**

The mission of the Central Karoo Community Network Project is to develop and implement a robust and high-performance network infrastructure that will provide reliable intranet and internet access to the Central Karoo district. By enhancing connectivity, the project aims to improve service delivery, support local hospitals and government offices, and bridge the digital divide for approximately 3000 homes in the community.

**Objectives**

The primary objectives of the project are to:

1. Establish a reliable and high-performance network infrastructure that connects the entire Central Karoo district.
2. Provide intranet and internet access to local partners, including 3000 homes, three district hospitals, and the district administrative building.
3. Improve the quality and reliability of communication services to enhance service delivery in healthcare and government operations.
4. Implement robust security measures to protect the network from unauthorized access and cyber threats.
5. Complete the project within a 12-month timeframe, from 22 January 2025 to 12 December 2025, ensuring timely and efficient deployment.

**Project Team**:

1. Network Engineers: Responsible for designing and implementing the network infrastructure.
2. IT Technicians: Assist in the installation, testing, and maintenance of network components.
3. Support Staff: Provide administrative support, coordination, and communication among stakeholders.
4. Security Specialists: Implement and manage network security measures.

**Key Stakeholders**:

1. Central Karoo Residents: The primary beneficiaries of improved internet connectivity, including approximately 3000 homes.
2. Three District Hospitals: Rely on stable internet connections for accessing patient data and running healthcare applications.
3. District Administrative Building: Houses 200 government employees who will benefit from improved network services.
4. External Suppliers: Businesses that interact with government infrastructure and require secure access to network resources.

**Project Goals**:

1. Develop and implement a reliable and high-performance network infrastructure.
2. Provide intranet and internet access to approximately 3000 homes in Central Karoo.
3. Improve service delivery for three district hospitals and the district administrative building.
4. Enhance network security to protect against unauthorized access and cyber threats.

**Project Duration**: 12 months (22 January 2025 - 12 December 2025)

**Our Estimated Budget**: 5.5 million Rands

**Key Resources**:

1. Smart Bridges multi-band access points, client units, sectoral and omnidirectional antennas, servers, security systems, solar panels, batteries, inverters, and cooling systems.
2. Skilled technicians, engineers, and support staff.
3. Training materials and documentation for end-users.

**Project Milestones**:

1. Initiation: Finalize project charter and secure sponsorship (22 January - 31 January 2025)
2. Planning and Design: Develop project plan and design network architecture (1 February - 28 February 2025)
3. Procurement: Acquire necessary equipment and materials (1 March - 31 March 2025)
4. Site Preparation and NOC Upgrade: Prepare sites and upgrade NOC facilities (1 April 30 April 2025)
5. Infrastructure Deployment: Install wireless backbone infrastructure (1 May - 31 August 2025)
6. Security Implementation: Install security systems (1 September - 15 September 2025)
7. Testing and Quality Assurance: Conduct comprehensive testing (16 September - 15 October 2025)
8. Training and Documentation: Train users and provide documentation (16 October - 31 October 2025)
9. Rollout and Go-Live: Implement the network in phases (1 November - 15 November 2025)
10. Monitoring and Optimization: Monitor and optimize network performance (16 November - 12 December 2025)