

Structured Cabling and IP Telephony Installation Works at KNDSI Complex, Survey of Kenya



Kenya National Spatial Data Infrastructure Complex (KNDSI) at Survey of Kenya

Project Value: 50 Million Kshs.

Project Status: Delivery & Installation complete, commissioning of building pending

Ministry of land Project KENYA

The Ministry of Land, Housing & Urban Development in Kenya is charged with the responsibility of planning, designing, construction and maintenance of Government assets in the field of built environment and infrastructure development. As part of the Ministry's strategies to enhance service delivery, the Ministry embarked on a project to construct a National Spatial Data Infrastructure Complex at Survey of Kenya Headquarters.

This project required an ICT platform and infrastructure that would serve the institute for all its communication services.

Soulco Kenya was awarded this task of delivering a solution for a converged infrastructure for both Voice and Data.

Solution Description

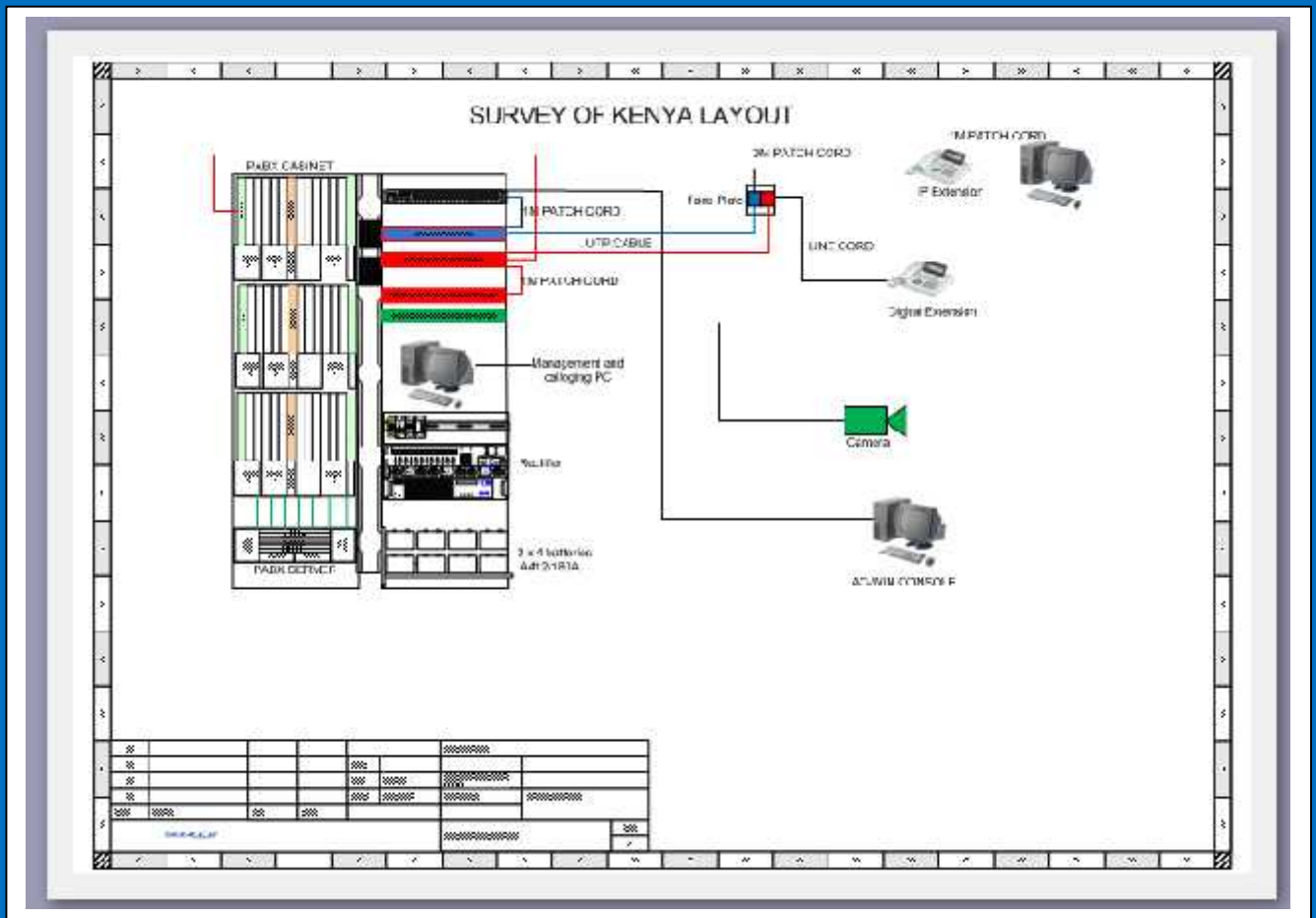
To meet this need, Soulco Kenya delivered and installed the following;

- *Structured cabling - to support proper integration planning systems. An integration of IP, wireless connectivity, fiber optics and high-speed Ethernet was applied.*

This involved horizontal cabling structure for user end and vertical structure for fiber and voice backbone.

- *HiPath 4000 – for a converged, secure and flexible communication solution*
- *Operator Consoles – IP PC based operator consoles with handsets and headsets that have USB interfaces.*
- *Telephone Sets – a combination of IP, digital and analogue telephone sets*
- *Telephone Management – this includes a call logging package with budgetary module to allow budget allocations for telephone usage and HiPath Expressions which offers the users voicemail services*
- *Training and Support Services*

Design Layout:



This system is equipped for:

- A duplicated common room
- 3x E1 ISDN lines
- 30 Trunk lines
- 200 digital extension ports
- 200 Analogue Extension ports
- IP Interface for IP based consoles and IP users
- 2x GSM line modules including SIM cards
- 5x IP Based Operator Consoles
- 5x Operator Headsets
- 5x Operator Handsets
- 6x Tie Lines



Openstage 40T- executive digital set



Openstage 20-executive IP set

Unify workstations (telephone sets) were provided for this project due to their high levels of convenience, functionality and flexibility.

Training:

This project also includes training sessions to equip knowledge to the telephone operators and technical personnel on basic understanding of the installed system. This process has been conducted onsite during installation by the Soulco Kenya Team.

Further classroom training will be conducted once the project has been officially commissioned.

Support & Maintenance:

On commissioning, Soulco will also be in charge of the administration and maintenance process for the installed

Systems during the warranty period. Currently, monitoring of the installed systems is ongoing.

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