



## Case study

# Leading Rwandan financial institution provides innovative customer services with support from Vertiv



## Background

As Rwanda's banking industry today accounts for 66% of the African country's total [financial sector assets](#), its economic development plans must be supported by a sound and growing financial services sector.

Aligned to this growth, a Rwandan financial institution made the decision to develop to state-of-the-art data centres to support its digital infrastructure.

This case study highlights how Vertiv's solutions enabled the financial institution to deliver better online services and faster processing.

## Challenge

To support its rapid growth, the financial institution required an advanced IT infrastructure designed for secure and modern digital financial services.

By building two data centres, the goal of the financial institution was to increase processing speed, improve operational efficiency, and enhance the overall user experience. Some of the specific challenges included:

- Rapid deployment to realise a faster return on investment (ROI)
- Flexibility and space challenges
- Operational costs and energy efficiency requirements
- Integration, testing and commissioning
- Rugged IT infrastructure power and cooling needs

Vertiv was selected for its experience with regional data centre and telecom projects, and for delivering energy-efficient modular data centre designs that enable rapid deployment and scalability.

### Company profile:

Rwandan financial institution

**Industry:** Financial services

**Region:** Kigali, Rwanda





## Solution

Vertiv deployed 12-rack Vertiv™ SmartAisle™ systems with pre-engineered edge facilities, integrated cooling, UPS back-up power and monitoring capabilities, including:

- 12-rack cold aisle contained Vertiv™ SmartAisle™ with 45kW CRV4 in-row cooling units (N+1 redundancy) and 42U Vertiv™ VE racks.
- Redundant Vertiv™ Liebert® Outlet Level Switched 32A 3-phase rPDUs on all cabinets.
- Vertiv™ Liebert® RDU501 and 15-inch HMI screen on each containment pod for integrated monitoring, display and alerting.
- 150kVA modular Vertiv™ Liebert® APM UPSs (scalable from 50-250kVA per cabinet) with 30mins VRLA Runtime on each UPS, providing N+N power redundancy.
- 27kW Vertiv™ Liebert® DM small room cooling units to retrofit the existing communications room providing N+N cooling redundancy.
- Vertiv™ VE racks for the communications room.
- Vertiv™ Smart InfraSight™ monitoring tool providing centralised monitoring, management, and alerting of all sites and on all aspects of the data centre, including power consumption, cooling and utilisation.



## Outcome

The initiative combined new builds with upgrades to existing facilities, improving performance and resilience while meeting data sovereignty requirements.

Key outcomes:

- **Maintained data sovereignty** through strategically located facilities supporting diverse service offerings.
- **Deployed new infrastructure:** 12-rack primary data centre and 12-rack disaster recovery site.
- **Upgraded existing assets:** modernised a four-rack communications room at headquarters.
- **Optimised site distribution:** primary data centre and communications room at HQ; DR facility at a secondary site.
- **Accelerated deployment** using Vertiv's SmartAisle™ to deliver full traditional data centre capabilities without lengthy design-and-build cycles.
- **Delivered turnkey solutions** integrating mechanical, electrical, racking, and monitoring systems from Vertiv and other suppliers.

“The demand for cloud-computing and data centres in Africa is playing a crucial role in driving digital transformation across the continent, including within the financial services sector. Vertiv is very pleased to provide our integrated power solutions to our banking client as it seeks to provide innovative and secure solutions to its clients. We are proud to support this further step in Rwanda's overall journey towards financial inclusion, by providing our solutions that are engineered for energy flexibility, reliability and efficiency.”

— **Wojtek Piorko,**  
*Vertiv managing director for Africa*