



Canovate's modular double container design approach was the perfect solution for Ecobank's new datacenter

Ecobank chose Canovate as their mobile container solution provider for their new disaster recovery datacenter in Nigeria-Lagos, after a long investigation to find the right solution that was suitable to their demanding requirements.

As of December 2016, Ecobank's customer base was estimated as 24.7 million, with 16.6 million (65 %) located in Nigeria, which has the continent's most crowded population. Ecobank's network included 1,305 branches, with 1,981 networked ATM's. Under these conditions, Ecobank needed reliable and uninterruptible datacenters to manage its IT network and transactions across these 36 countries.

Ecobank is one of the biggest banks in Africa operating in 36 countries

Since there is a high risk of natural disasters, political & armed conflicts and frequent power shortages in the region, Ecobank has decided to invest in a state of the art disaster recovery datacenter. Their main criteria for the new datacenter was mobility, flexibility, Tier III compatibility and high cooling & power efficiency. The container DC should be placed outside in a harsh climate environment with high humidity and heat. Therefore, proper and energy efficient climatization of the container was the highest priority for the customer.



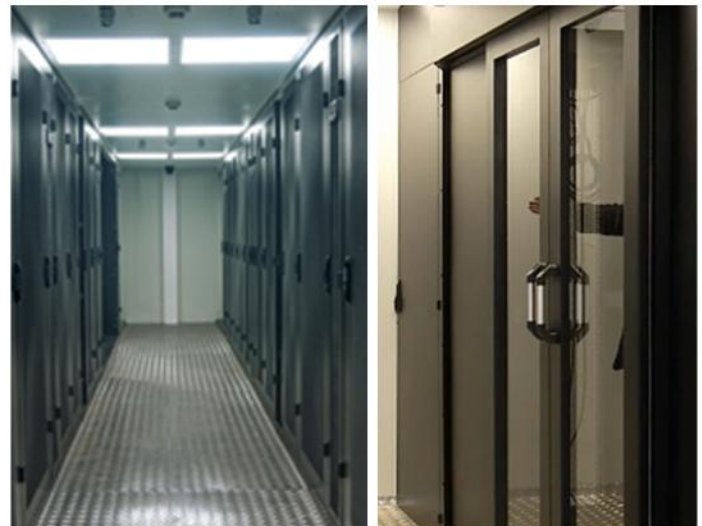
Canovate mobile container had been selected as the most suitable solution after a long selection process between industry leading suppliers of mobile container systems. The flexibility, customization capabilities and efficiency were the most critical factors to choose Canovate as the right solution.

Ecobank wanted to install 20 x 42U 600x1200 Server racks in a container solution with appx 10KW cooling and 10KVA power capacity per rack. Furthermore, they asked for flexibility to integrate existing EMC storage and IBM server racks in the same cold aisle containment system together with Canovate racks inside the container.

In order to offer the right solution based on these requirements, Canovate made a custom made double 2x45 feet container to be placed side by side. This containment had to accommodate 2 rows of 10x 42U 600x1200 Server rack (total 20 racks) and 8 pieces of 28 KW DX type inrow cooling units in a cold aisle containment to ensure best cooling efficiency. By deploying cold aisle containment system complete separation of cold and hot air was ensured. Therefore, uneven distribution of cold air and possible hot spots were eliminated.

Best cooling performance with highly energy efficient inrow cooling units

Inrow DX cooling system was chosen as preferred cooling system to provide energy efficient and reliable cooling. N+1 redundancy was ensured by adding an extra inrow cooling unit in case one of the cooling unit fails.



Inorax-Al Aluminum frame racks were installed inside the cold aisle containment. These patented racks are supported by a complete aluminum frame which can carry up to 2000 kg load. Thus it is a perfect rack for such a demanding high capacity datacenter with a robust and aesthetic design. The racks also provide 1200 mm depth, which allows the chance to install the biggest size blade servers.

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Each rack had two IP-PDU's (A and B feed) , one of the them was sourced from the mains power and the other one from the generator so that power redundancy was obtained even on rack level. IP-PDUs had remote power monitoring feature so that Ecobank could easily optimize their datacenter infrastructure and monitor power efficiency of their equipment.

All environmental conditions like temperature, humidity, airflow, smoke etc and all cooling, power, and fire suppression devices are being monitored via Canovate DCIM (Datacenter Infrastructure Management) and EMS (Environmental Monitoring Systems) solutions. Therefore, any problem inside the datacenter will be reported immediately to the datacenter manager via e-mail ad GSM message for immediate action and intervention.

Pre-configured and factory tested containers assembled easily on site with Canovate's modular design approach

Containers are protected against fire and isolated from excessive heat by using special isolation materials in between the sandwich panels. Cameras inside and around the 4 corners of the container coupled with electronic lock systems on the racks and access control ensure security against unauthorized access.



2 X 45 feet containers were assembled together and fully tested as a single unit in full operation in Canovate-Istanbul production facilities. After that two containers were disassembled from each other and shipped separately to Nigeria, where they were re-assembled again on site under the supervision of Canovate engineers.

Ecobank's container data center is now operating with complete hot and cold air isolation and zero hot spots in the most energy efficient way without any downtime. Not only do the Canovate products exceed expectation functionally, but they also provide a clean, high-tech look. Ecobank's container data center has become a showpiece for Nigerian IT market and proudly shown by Ecobank to their partners.



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