



Case Study : Telecommunications Industry

How a Leading Telecommunication Provider Communications Migrated Critical OSS & BSS Applications to AWS with Flentas

A leading telecommunication provider delivers connectivity and digital solutions to enterprises worldwide. With a vision to leverage cloud technology, they aimed to modernize its operations and enhance agility while continuing to deliver secure, reliable connectivity services.

The Challenge

They needed to migrate its **critical Operations Support System (OSS)** and **Business Support System (BSS)** applications, including SMSC, to AWS Cloud.

- Establish a **multi-region setup** (Mumbai & Oregon) with disaster recovery setup for workloads in different regions.

At a Glance

Industry : Telecommunication

Company : A Leading Telecommunication Provider

The Solution :

- Multi-account Landing Zone & Secure Hybrid Connectivity
- Modernization of OSS & BSS Applications with multi-region disaster recovery
- Centralized Logging, Monitoring & Governance

Business Impact:

- Resilient, high-availability infrastructure
- Faster disaster recovery with minimal downtime
- Improved scalability and strengthened security

- Implement a **Landing Zone** for standardized governance across multiple AWS accounts.
- Ensure **high availability & resilient connectivity** across regions with seamless failover.
- Modernize applications like NGBOSS and SMSC for **cloud-native scalability**.
- Enable **on-demand resource scaling** to meet business growth.
- Strengthen **security and compliance** with centralized monitoring and logging.

The Solution

Flentas partnered with them to design and implement a **robust AWS cloud infrastructure** addressing governance, scalability, and security requirements.

Key Implementations



Landing Zone & Governance

Multi-account setup via AWS Control Tower for better governance and compliance.



Networking & Connectivity

VPC design, Transit Gateway, AWS Direct Connect, and NACLs for secure and efficient traffic management.

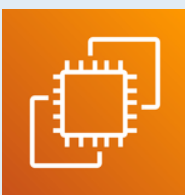


Security & Identity

Palo Alto Firewall for advanced security, integrated Active Directory with AWS Identity Center for seamless SSO.



AWS Services Used



EC2



Control Tower



EKS



GuardDuty



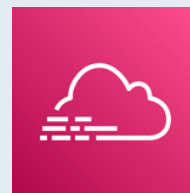
S3



AWS Config



EFS



CloudTrail



VPC



CloudWatch



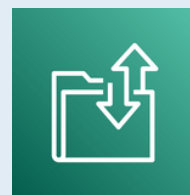
Transit Gateway



Elastic Disaster Recovery (EDR)



Direct Connect



Transfer Family (SFTP)



Route 53

Third-Party Services Used



Palo Alto Networks Firewall



Microsoft Active Directory (integrated with AWS Identity Center)





Application Modernization

NGBOSS modernized with Amazon S3; SMSC microservices deployed on AWS EKS with EFS persistent storage.



Disaster Recovery

Elastic Disaster Recovery (EDR) configured for NGBOSS across regions, ensuring rapid failover with minimal downtime.



Centralized Monitoring

CloudWatch dashboards, alarms, and workload monitoring, with centralized audit logs via CloudTrail, Config, and GuardDuty.



Data Transfers

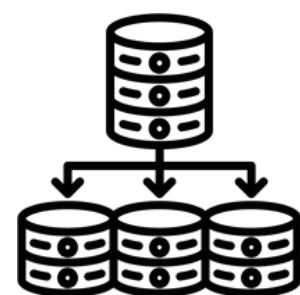
AWS Transfer Family (SFTP) for secure and reliable file transfers across global sites.

Business Impact



Seamless Migration

Critical OSS and BSS workloads successfully migrated to AWS.



Operational Agility

On-demand scalability and monitoring reduced manual effort.



Multi-Region Resilience

High availability and reduced downtime with resilient inter-region connectivity.



Disaster Recovery Readiness

Automated failover minimized business risks.



Enhanced Security Posture

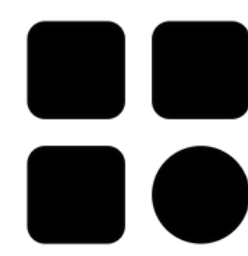
Standardized security setup with GuardDuty, Config, and centralized logging.



Key Business Benefits



Improved scalability to support growing telecom operations.



High availability ensured business continuity with seamless DR setup.



Strengthened governance and compliance through Landing Zone architecture.



Increased operational efficiency with automation and centralized monitoring.



Enhanced security with layered controls and proactive threat detection.

Conclusion

By migrating its OSS and BSS workloads to AWS with Flentas, **they modernized its IT landscape**, achieving scalability, resilience, and security. The adoption of a multi-account architecture, disaster recovery strategy, and application modernization has equipped them with a **future-ready cloud foundation** to drive digital transformation across its global operations.



For more information on how our Migration solutions can transform your business, contact us at

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