Implemented controls for Digital Financial Services

Christine Hilda Namuddu



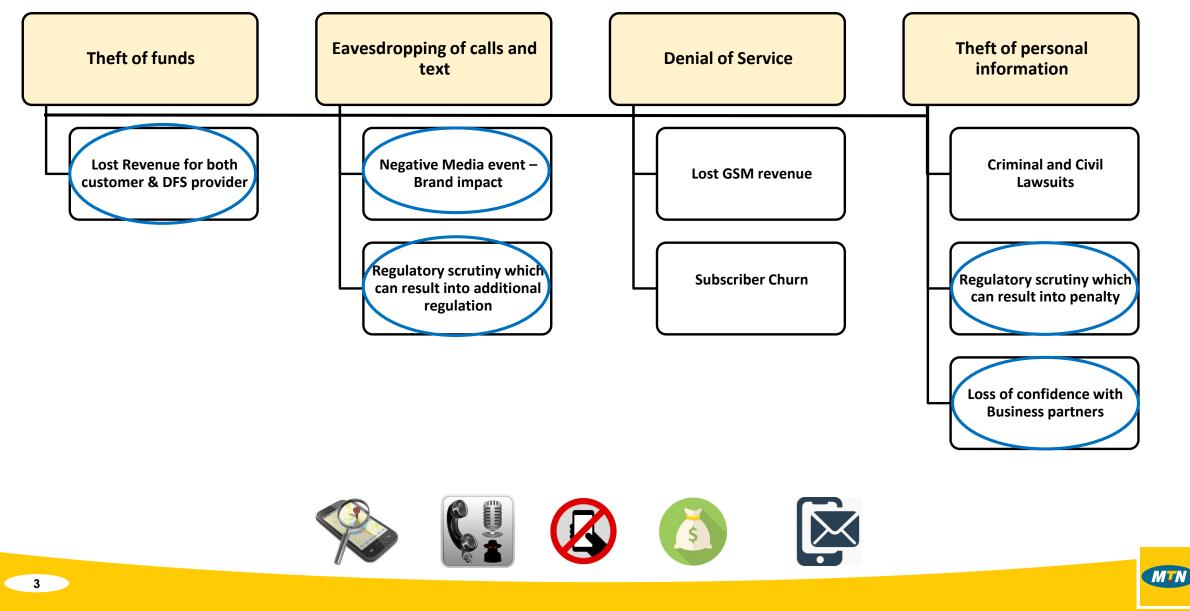
About MTN Uganda

- 1. MTN Uganda both a GSM & DFS provider
- 2. Mobile Money Launched in 2009
- 3. Services: GSM-Voice, SMS, Data; DFS-P2P, Remittances, Payments
- 4. DFS Channels: USSD, API
- 5. Over 13M GSM subscribers; Over 7M 30-day active DFS wallets (>40M for MTN group)





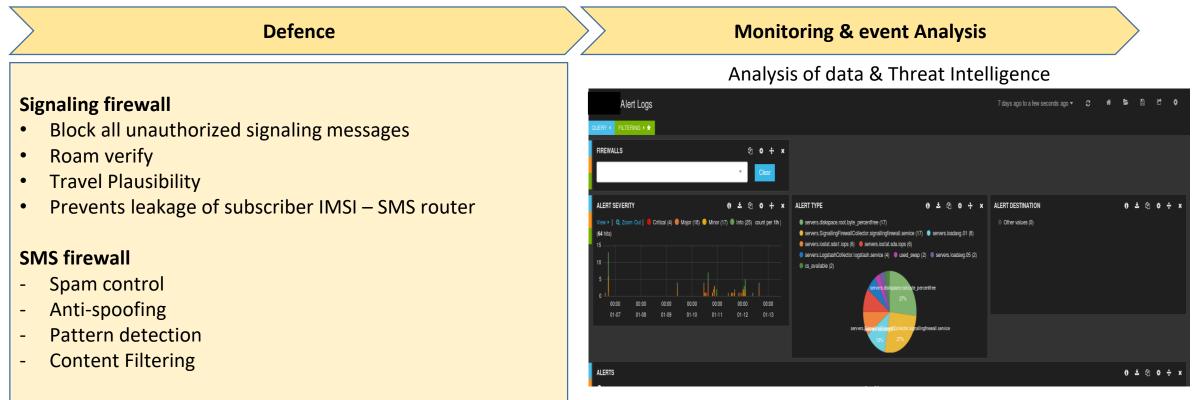
Threat Universe – GSM & DFS



Sensitivity: Public

Implemented mitigating controls

1. Firewalls deployment



MIN

Other realized benefits from SMS firewall implementation

- Realized A2P revenues
- Customer confidence

4



Implemented mitigating controls

- 2. SIM Swap & PIN reset controls
 - I. Restricted SIM Swap reversal few internal teams
 - II. Limit SIM Swap window
 - III. Restricted Pin reset
 - IV. SIM Swap & Pin reset cannot be done at the same time
- 3. IMSI transaction lookup & authentication
 - I. IMSI Update only done through restricted channels
 - II. MoMo wallet suspension on identification of an IMSI change
- 4. New registration controls Implemented regulation
 - I. Biometric based subscriber identity
 - II. One New MSISDN per subscriber identity *e.g. National ID, Passport etc.* per 24hrs
- 5. Security by design
 - I. For every DFS product secure call flow
- 6. SIM Agent selling controls
 - I. SSO biometric authentication
 - II. More Robust Back office approval process





