Next level of mobile security and how to manage custom applications inside Your company

Danijel Saifert
Head of IM B2B division Adriatic
What is Samsung Knox?

Knox Platform

Comprehensive set of enterprise mobility solutions to address a variety of business needs on top of the secure Knox platform

Knox Solutions

Deployment & Customization

- Knox Configure
- Knox Mobile Enrollment

Security & Management

- Knox Workspace
- Knox Manage
- Knox Guard

Knox Platform

Built-in series of hardware and software security mechanisms designed to protect the integrity of the device
What is Knox Manage?

Cloud-based EMM solution that allows IT admins to set up, manage and monitor devices remotely to increase business efficiency and secure corporate data

- All major platforms supported
- The fastest time-to-market of new features for Samsung devices
Key Advantages of Knox Manage

- Quick and Easy Deployment
- Robust Management
- Comprehensive Controls
Knox Mobile Enrollment
Controlling corporate devices is made easy

Enrolling devices to Knox Manage Service

### Traditional

1. IT registers device (phone numbers, email...)
2. IT sends EMM installation link
3. User downloads & installs EMM
4. User logs in
5. Device is enrolled

### Knox Mobile Enrollment

- IT registers device (IMEI, S/N...)
- **Automatic Bulk Enrollment**
  - Turn on & Connect to network (Wi-Fi/4G/LTE)
  - EMM is automatically installed & logged in with user credentials
- Device is enrolled
Remote Device Support

Remote device support allows users to grant access to IT Admins for remote access.

1. Install & Run Remote support tool on the PC
2. Pass access code to the end user
3. Enter the same access code in the EMM support application
4. Control the device (i.e.) app installation, setting change, log file save, etc.

: Admin     : End user
FOTA (Firmware Over The Air)

FOTA is the service for updating mobile devices’ Firmware thru OTA (Over The Air)

Three steps of FOTA service & key technologies

**STEP 01**
Delta Generation

 Old Firmware → Generate Delta → Register Delta → New Firmware

**STEP 02**
Delta Delivery Over-The-Air

 FOTA Server → 3G or Wi-fi (thru Carriers’ Network) → Download Delta OTA → UA modifies old Firmware to new one with delta

DM Server
DL Server

DM: Device Management
DL: Download Server

**STEP 03**
Update Firmware with Delta

DL Client Downloads Delta

UA: Upload Agent
Value Propositions

The Samsung E-FOTA service delivers on maximizing lifecycle value of enterprise mobile device platform.

E-FOTA

Effective Security Surface Area Management

• Latest security patches can be quickly and consistently deployed across enterprise even without user interactions.

IT Stability and Predictability

• Ensure all business devices are running same OS version which makes platform level qualification and maintenance much easier

Minimize Business Interruptions

• Schedule update date and time via flexible policy to avoid business interruptions and improve end-user experience

Maximize ROI

Stay on qualified and stable set of OS and apps to get most out of mobile IT investment, perhaps even lengthening refresh cycle.

IT Stability and Predictability
E-FOTA Service Flow Overview

**E-FOTA on MDM**
- Request
- Provide Version List
- MDM Console
- Deploy Policy
- Execute

**E-FOTA Advanced (Cloud)**
- Request
- Provide OS Delta binary
- E-FOTA Console
- Execute
- Set Policy

**E-FOTA Advanced (On-Premise)**
- 1st time Only Request
- Provide OS Delta binary
- Samsung CDN Server
- Set Policy
- IT Admin
- Execute
- E-FOTA Console & Server

**Samsung**
- E-FOTA server