SAMSUNG and PUBLIC SAFETY

Antonio Bosio
Head of Product & Solutions
Samsung Electronics Italia SpA

SAMSUNG

BUSINESS PORTFOLIO

Semiconductors

Memory
System LSI
Foundry

SAMSUNG

BUSINESS PORTFOLIO

Consumer Electronics

Visual Display	Digital Appliances	Health & Medical Equipment

SAMSUNG

BUSINESS PORTFOLIO
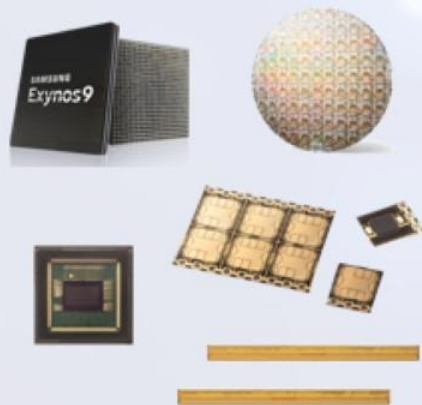
IT & Mobile Communications

Mobile Communications

Networks

SAMSUNG

LTE/5G Public Safety modular approach

Semiconductors

Mobile Communications

Networks

Application and Service layer

SAMSUNG

Home / DoD / Marines to Implement Target Handoff System on Samsung Tablets

Marines to Implement Target Handoff System on Samsung Tablets

Scott Nicholas

The U.S. Marine Corps will integrate a new target handoff system into off-the-shelf tablets from **Samsung** to call in fire support from air, ground and sea units, Military.com reported Wednesday.

Hope Hodge Seck writes Jesse Hume, project officer for the *Target Handoff System Version 2*, said that approximately 900 Marines will utilize the platform alongside a combat net radio, laser range finder, video downlink receiver and Samsung's *Tab 2* device.

The Marine Corps previously said it would acquire smartphones for fiscal year 2017 in an effort to boost the service branch's fire support, mobility and tactical capacity.

"Currently we are working with other program offices within Systems Command to build upon the initial fielding of the Target Handoff System," Hume said.
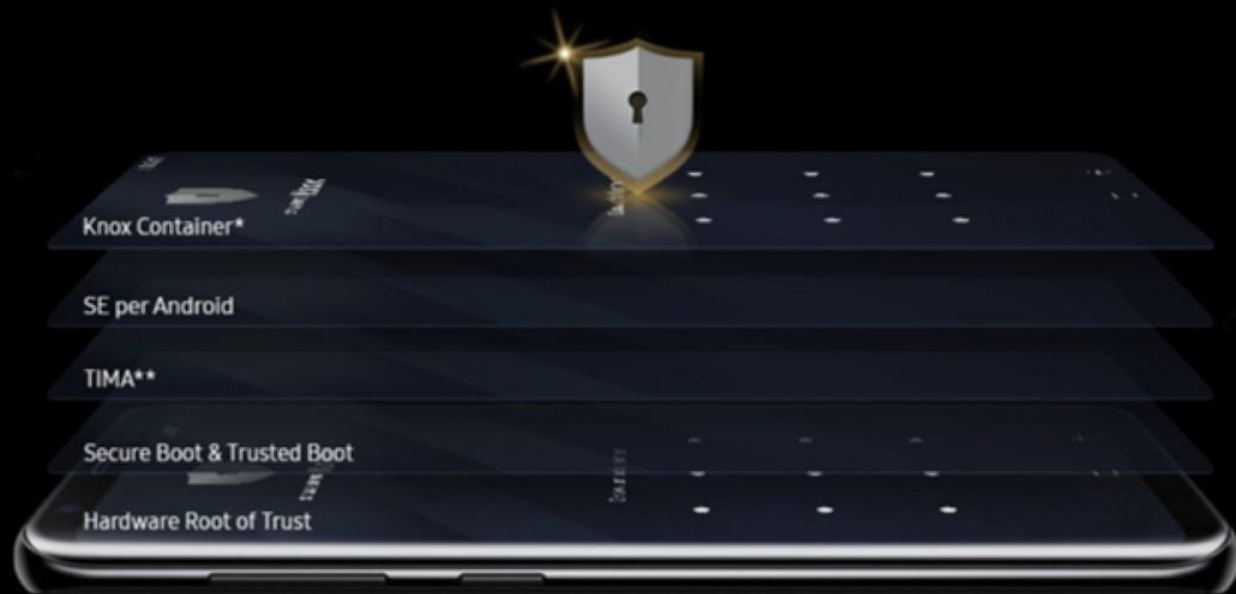
SAMSUNG KNOX

Knox Container*

SE per Android

TIMA**

Secure Boot & Trusted Boot

Hardware Root of Trust

Knox Container

Protezione in tempo reale

Crittografia basata su hardware

SAMSUNG

SAMSUNG KNOX CERTIFICATIONS

NETHERLANDS
AIVD

FINLAND
KATAKRI II & III
^ Finnish National Security Auditing Criteria
FICORA

CANADA
FIPS 140-2
^ Federal Information Processing Standards
NIST

UK
NCSC
NIAPC
National Cyber Security Centre
a part of GCHQ

CHINA
ISCCC Certification
^ China Information Security Certification Center

USA
NIST
FIPS 140-2
^ Federal Information Processing Standards
STIG
^ Security Technical Implementation Guide
DISA
UC APL
^ Unified Capabilities Approved Product List
CSFC
^ Commercial Solutions for Classified
NSA

KAZAKHSTAN
ST RK 1073-2007
"Cryptographic Information Protection Facility. General technical requirements"
KZ.0.02.0507

FRANCE
CSPN
^ Certification de Sécurité de Premier Niveau
ANSSI

AUSTRALIA
ASD-endorsed MDFPP for unclassified
ASD

COMMON CRITERIA
- Mobile Device Fundamentals Protection Profile
- Security standards in 26 countries
Common Criteria

SAMSUNG

WHY SAMSUNG AND PUBLIC SAFETY

TO ACTIVELY SUPPORT THE COUNTRY

TO VALUE THE LATEST 3GPP RELEASES
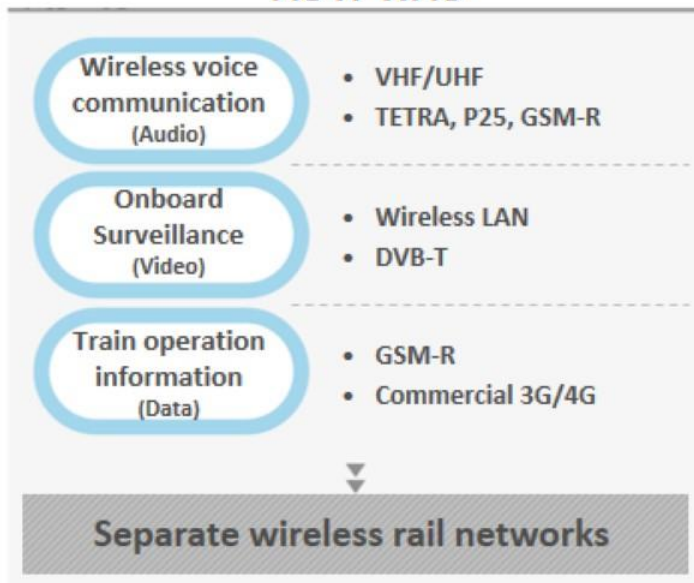
SAMSUNG

SOUTH KOREA

- SafeNet (Safety Network)

- Dedicated PS-LTE unified network deployment by SKT and KT

- Interoperable with existing legacy Public Safety technologies

- Service launch 2017

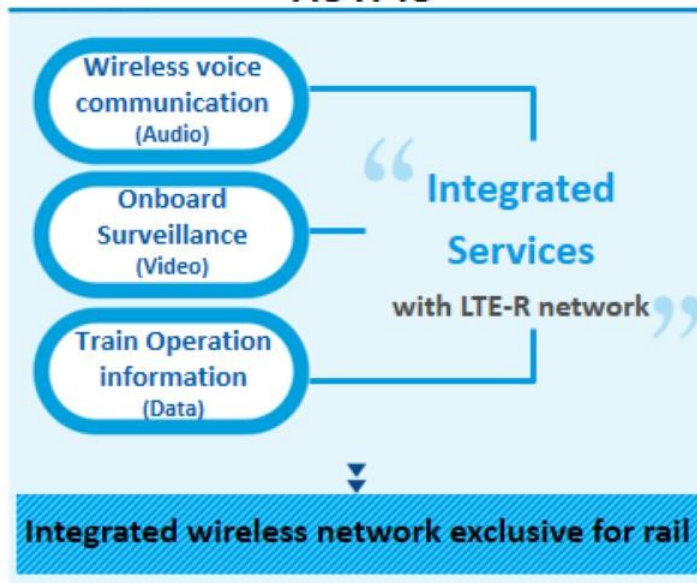- Samsung supplier of 200K PS-LTE Device, Network and Solution

SAMSUNG

LTE-R BASED ON SAFENET

AS IT WAS

Wireless voice communication (Audio)
- VHF/UHF
- TETRA, P25, GSM-R

Onboard Surveillance (Video)
- Wireless LAN
- DVB-T

Train operation information (Data)
- GSM-R
- Commercial 3G/4G

Separate wireless rail networks

AS IT IS

Wireless voice communication (Audio)

Onboard Surveillance (Video)

Train Operation information (Data)

"**Integrated Services**

with LTE-R network"

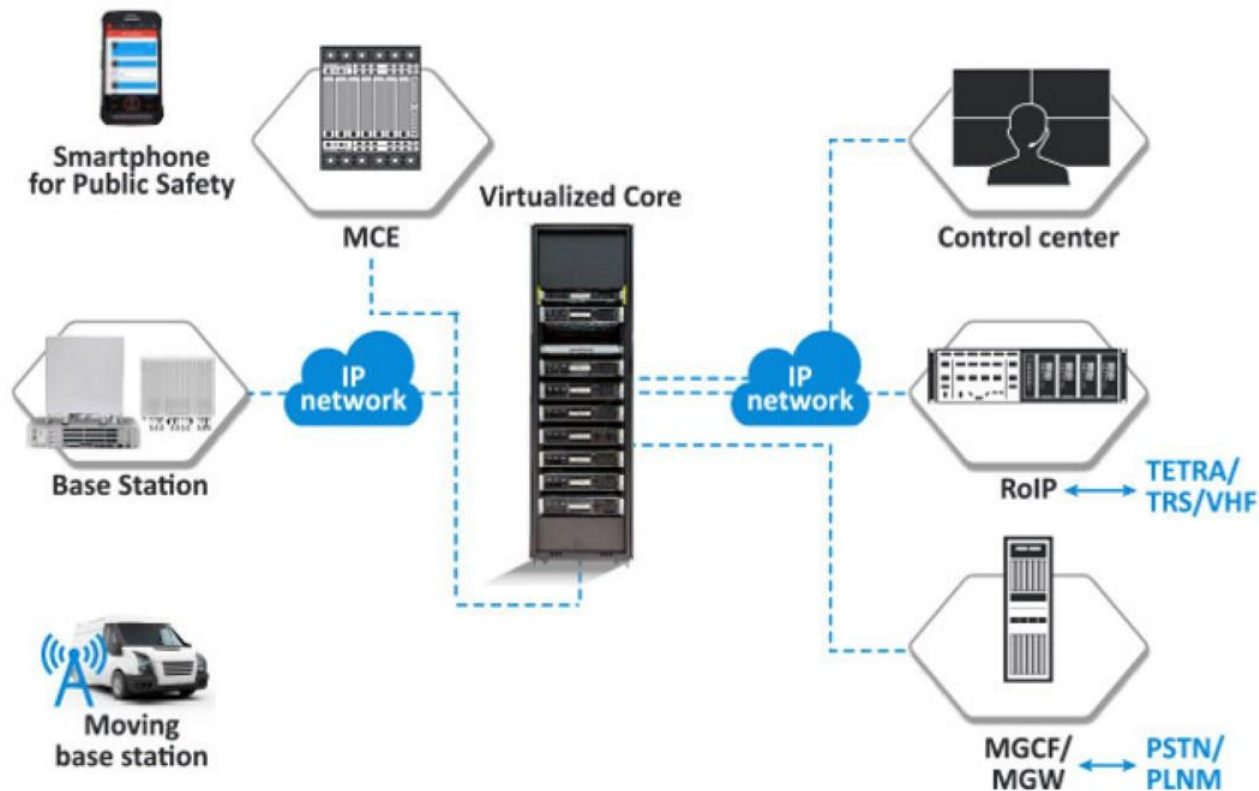**Integrated wireless network exclusive for rail**

- LTE-R (Long Term Evolution – Railway), DVB-T (Digital Video Broadcasting – Terrestrial), VHF (Very High Frequency), UHF (Ultra High Frequency), TETRA (TErrestrial Trunked RAdio), P25 (Project 25)

SAMSUNG

UNITED KINGDOM

- ➢ ESN (Emergency Service Network)

- ➢ Enhancement of the existing LTE commercial Network adding priority over other users

- ➢ Service launch 2018

- ➢ Saving of almost £3B in 15 years vs previous Public Safety technologies

- ➢ Samsung supplier of 250K PS-LTE Device

SAMSUNG

SAMSUNG OPEN ARCHITECTURE

Smartphone for Public Safety

MCE

Virtualized Core

Control center

Base Station

IP network

IP network

RoIP ←→ TETRA/ TRS/VHF

Moving base station

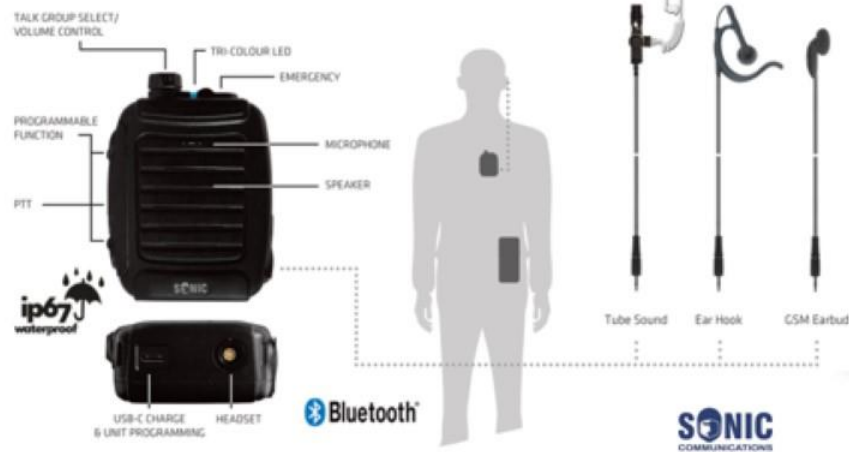MGCF/ MGW ←→ PSTN/ PLNM

RoIP: Radio over IP

SAMSUNG DEVICES AND ACCESSORIES

Samsung Galaxy

PTT hard key

Partner Accessories - Audio

Bluetooth or Wired Remote Speaker Microphone & Earpiece

TALK GROUP SELECT/
VOLUME CONTROL

TRI-COLOUR LED

EMERGENCY

PROGRAMMABLE
FUNCTION

MICROPHONE

SPEAKER

PTT

ip67
waterproof

USB-C CHARGE
& UNIT PROGRAMMING

HEADSET

Bluetooth

Tube Sound   Ear Hook   GSM Earbud

SONIC
COMMUNICATIONS

SAMSUNG

DEVICE TO DEVICE

REAL TIME SERVICES

SAMSUNG

REAL TIME SERVICES

Use camera to capture data and autofill into apps

Reduce errors and save time

Nexsign prevents unwanted viewing

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REAL TIME SERVICES

- Push messaging
- Authenticate device
- Health & wellbeing

SAMSUNG

VIRTUAL REALITY

THANK YOU!

SAMSUNG