



SAMSUNG Knox

Enabling Mobile Security in the modern
workplace

November, 2022
Samsung Electronics Hellas



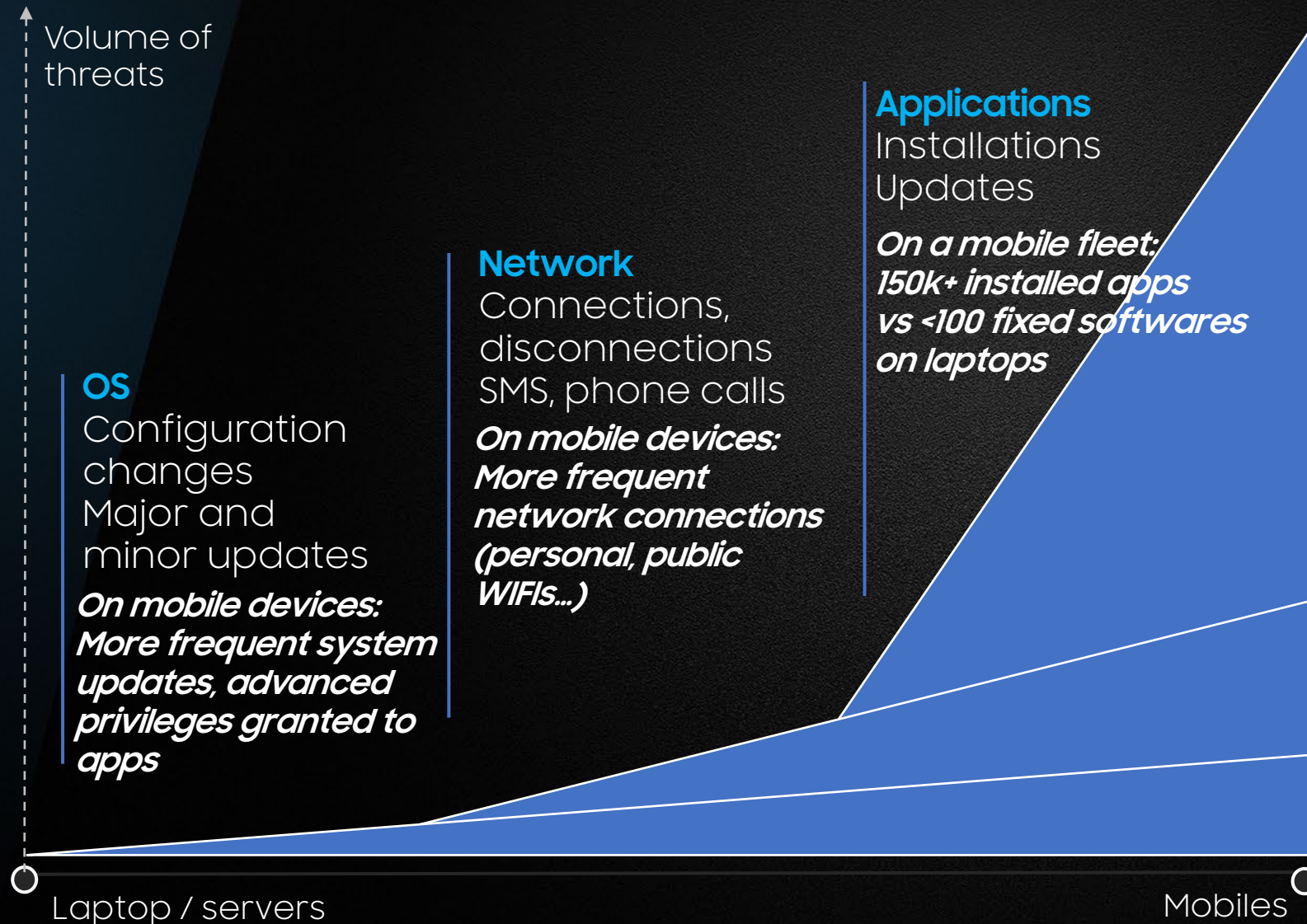
The ability to securely share information within and across organizations has never been more important

76% of data leakage on mobile is coming from apps

40% of security heads think mobile devices are the company's most significant IT security threat

+21.8% spending on mobile security (2021 to 2025)

Mobile security, an area that requires a specific expertise



MOBILE DEVICE SPECIFICITIES

- 55% of internet traffic comes from mobile
- A combination of professional and personal usages
- Mobile application model
- Constantly renewing mobile threats
- Very large amount of daily security events that cannot be handled manually

Mobile Use in Digital Transformation

Healthcare

- Insurance ID, EU forms
- E-prescription
- Vaccination card



Transportation services

- Smart wallet service for public transportation
- Travel documents



Access control-Hospitality

- Campus/hotel access
- Second factor for network access



Public and private ID services

- National IDs, Passports, etc.
- Driver's License on smartphones
- Private-sector ID services



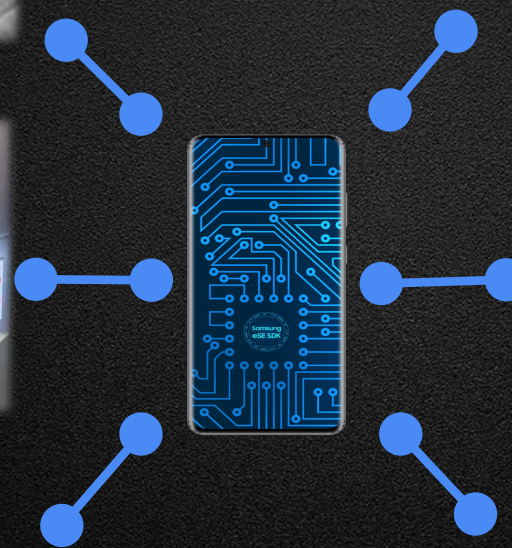
Classified services

- Police
- Government departments
- Defense



Retail Solutions

- Digital Cash Register
- Conversion to mPOS



Digital Transformation is Accelerating

More than just mobility, today's workers require advanced devices with integrated solutions to power higher productivity and IT admins to keep devices always safe and compliant

Knowledge workers

Always-on, digital nomad lifestyle



Need flexibility to work anywhere



Need continuity across mobile ecosystem



Need tools for remote collaboration

Key Technology Challenges

Frontline Workers

Insufficient investment in digital inclusion



Need digital transformation for productivity



Need one device that does it all



Need easy-to-use affordable devices

IT Administrators

Costly and complex system administration



Need cost-effective security solutions



Need easy device management solutions



Need strong protection against threats

What needs to be considered...

- Making the right device purchase
- Deciding how to manage devices and define the Mobile Security Policy
- Is an MDM/EMM enough? MTD solution?
- Training plan – Users and support staff
- Deployment
- Support



Samsung Knox



To provide our users with
the tools to work anywhere,
whilst ensuring the
security and integrity of
business data

Samsung Galaxy Provides Best-in-class Security

Security is the foundation to enterprise mobility, allowing employees to work safely with mobile devices wherever they are. Samsung takes this more seriously than any other device manufacturer and helps businesses do what they do without any security concern.

Samsung Knox, embedded in Samsung Galaxy smartphones and tablets, adds differentiated security features on top of Android OS—making Samsung devices **fully protected from mobile threats at all times**.

How do we do this?

**HW & SW
Integrated
Security**

**Real-time
Protection
&
Security
Updates**

**Collective
Protection**



Samsung embedded Secure Element (eSE)

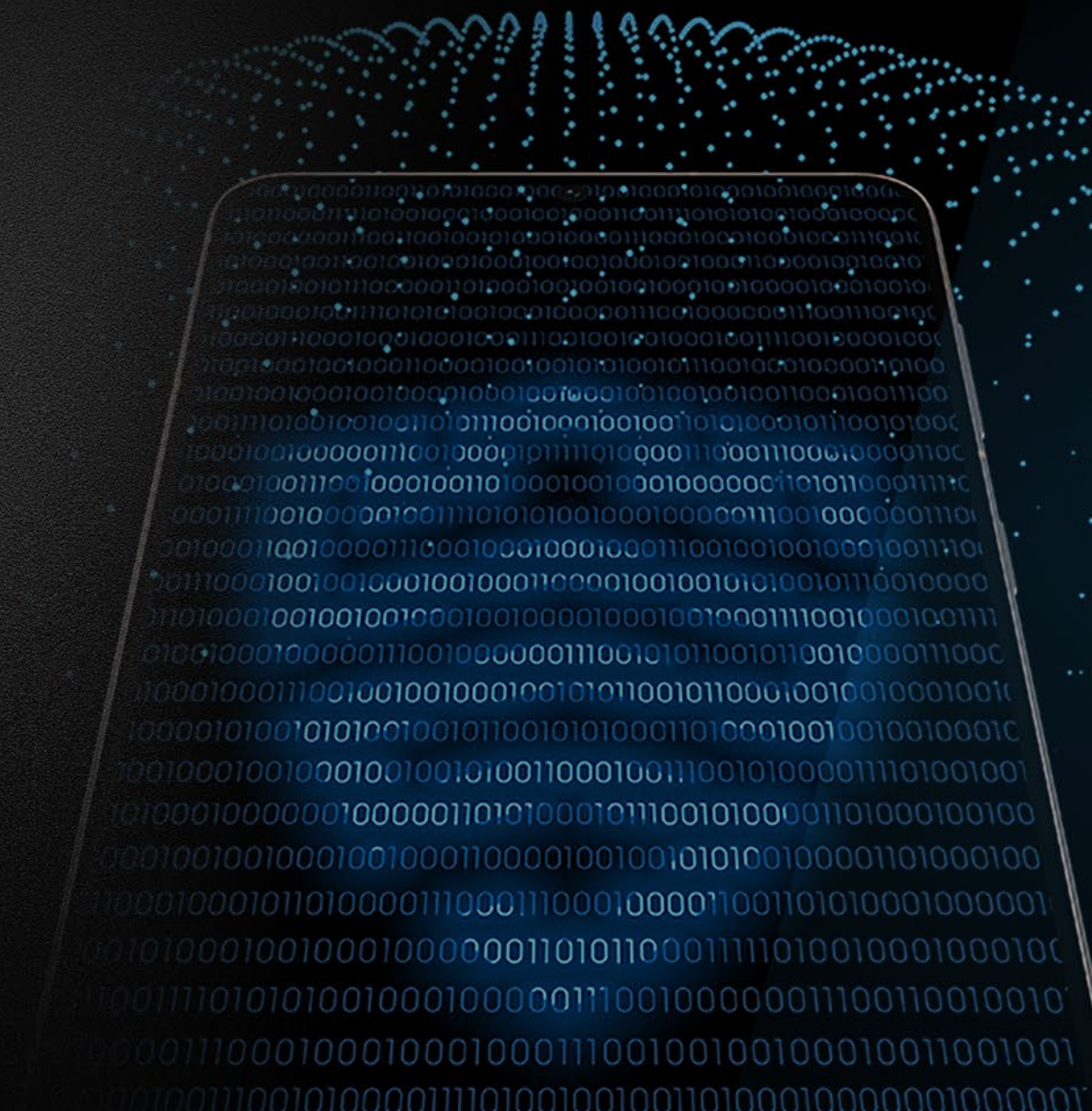
Features

- An independent physical chip
- Complete subsystem with its own CPU, memory, firmware etc.
- Similar to smart card chips on credit or SIM cards
- Designed for security-sensitive services
- Can interact with:
 - the environment via NFC or UWB (depending on device)
 - apps inside the device



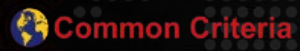
Security Aspects

- Secure space to store and process confidential data
- Isolated secure execution environment
- Tamper-resistant HW/SW design
- Cryptographic hardware engines
- Certified security according Common Criteria



Trusted by Experts and Government Bodies

Samsung mobile devices have been certified by government agencies globally



Common Criteria



DISA (USA)



ANSSI (France)



CCN (Spain)



Traficom (Finland)



ISCCC (China)



FIPS 140-2
(USA, Canada)



NCSC (UK)



BSI (Germany)



AIVD (Netherlands)



ASD (Australia)



STRK (Kazakhstan)

**Samsung Knox with Android
has highest security rating**

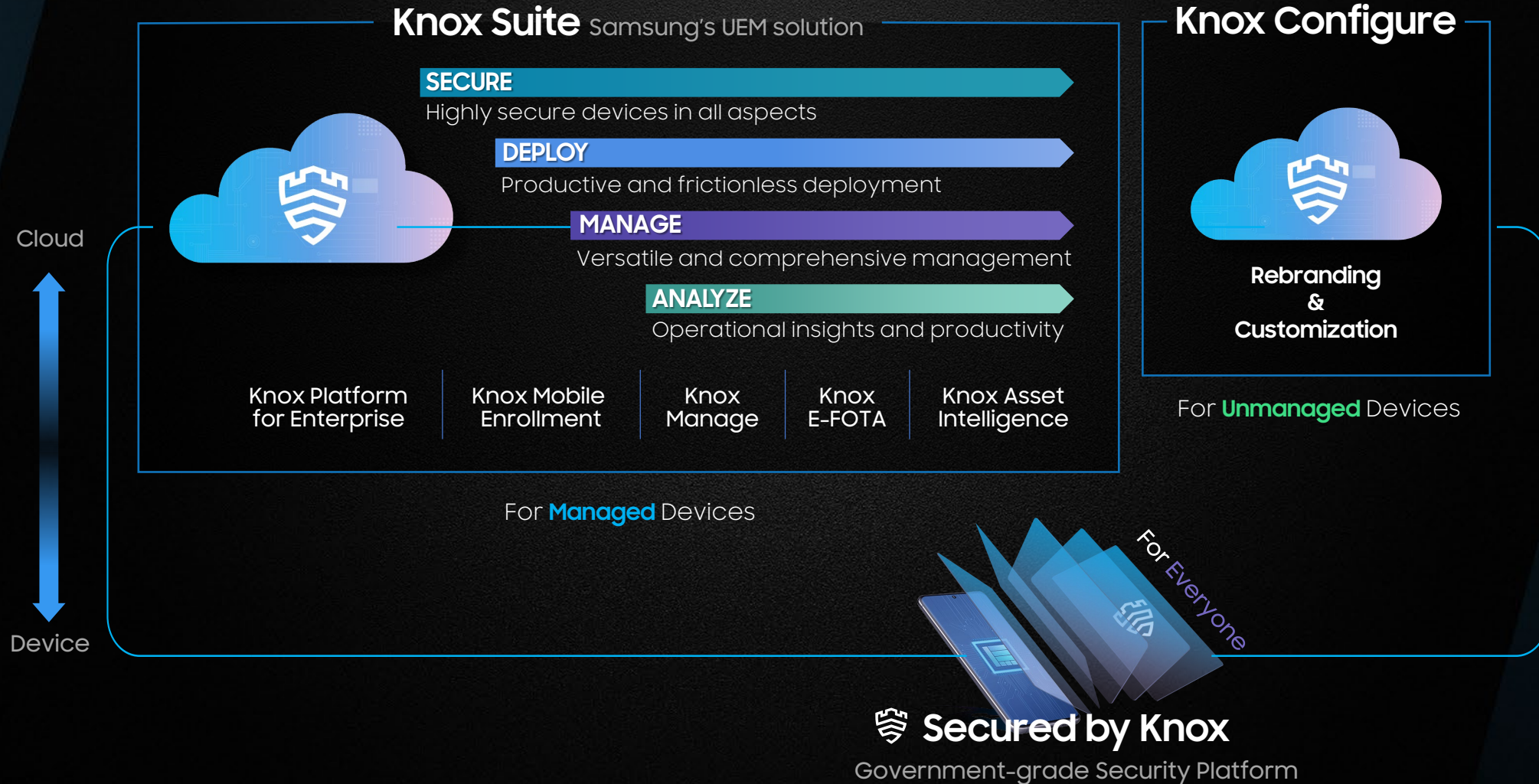


Strong
27 out of 30

**Samsung was rated a Major Player
and Leader in the UEM space**

Samsung Knox Solutions

Comprehensive Suite of Enterprise Solutions for Security, Management and Productivity


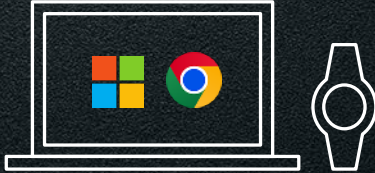



Samsung Knox Evolution

Past (2013-2019)

Present (2020-2023)

Future (2024~)

Key Missions		<i>"Elevate the perception of Android as an enterprise-capable OS!"</i> <i>"Create highly manageable and customizable devices for enterprise!"</i>	<i>"Provide in-depth visibility to devices and environments"</i> <i>"Unify and simplify product portfolio and UX!"</i>	<i>"Create operational intelligence for security, safety and continuity!"</i> <i>"Predict, prevent and remediate customer issues!"</i>
Target Users		Knowledge Worker	Knowledge Worker + Frontline Worker	→
Focus Area	Security	Hardware-'backed' platform security (TrustZone)	Hardware-'based' platform security (Knox Vault)	+ Zero-trust security + Continuous authentication
	Manageability	Smartphone / Tablet  <ul style="list-style-type: none"> • MDM/MAM • Software update mgmt. • Fraud & theft protection 	PC & Wearable  <ul style="list-style-type: none"> + Unified UX across Knox services + Holistic single-pane-of-glass UX via EMM/UEMs 	+ Other form factors such as access points and large display  <i>and more</i> <ul style="list-style-type: none"> + Unified Endpoint Management + Adaptive & autonomous remediation + Context awareness (w/ RTLS*)
	Productivity	<ul style="list-style-type: none"> • OOBEnrollment • Device configuration 	<ul style="list-style-type: none"> + Data capturing + Device visibility/insight 	<ul style="list-style-type: none"> + Predictive operation/maintenance + Process optimization

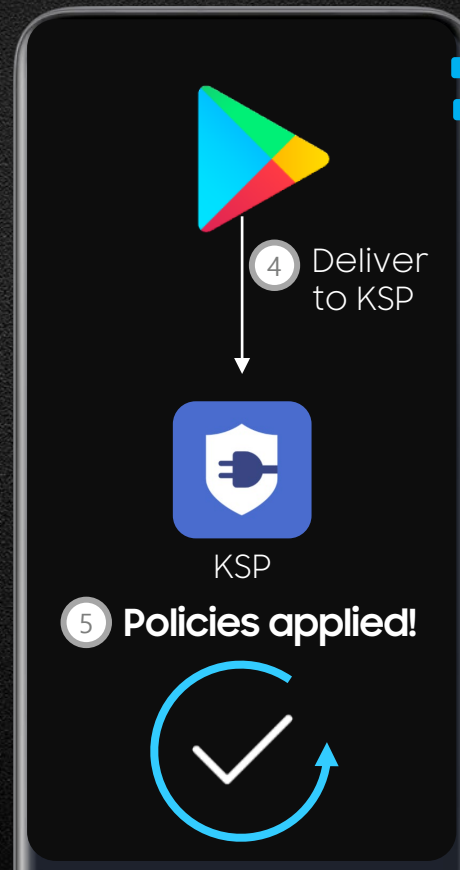
* Real time location sense

Samsung Knox Partner Ecosystem

Knox Platform integrated with numerous EMMs, Security and Productivity Solutions



and many more



Knox Service Plugin (KSP)

EMM Console



- Knox Platform for Enterprise
- Knox Asset Intelligence
- Knox Mobile Enrollment
- Knox E-FOTA

Enterprise Technical Support

Comprehensive support by dedicated Samsung expert engineers

1. Direct Access to Engineers

- Access to an experienced team of Samsung mobility experts

2. Support Account Manager (SAM)

- Dedicated support manager



3. On-site Support

- Expert engineer visit to customer site

5. Advantage Program

- Technical training
- Early access to new OS and solutions

4. Customer Analytics and Reporting

- Issues and resolutions
- Vulnerabilities and security patch schedules
- Product updates

Thank you