SAMSUNG Knox Security

What is Samsung Knox? .... Knox is Samsung's commitment to mobile device security. Knox combines a defense-grade security platform that is built into Galaxy devices from the chip up, together with a comprehensive set of cloud-based solutions that enable IT to secure, deploy and manage devices to meet their specific business needs.

Our philosophy on security

Designed and built secure
Galaxy hardware is built secure from design to manufacture, with our own supply chain.

Open to evolve
Partnering with best-in-class technologies to addess ever-evolving threats.

Tools for your business
Our cloud solutions extend the value of Knox platform for work devices.

Hardware backed
Trust begins with hardware

We build security into device from the ground up to safeguard your most precious data.

Knox Vault
Safeguarding your credentials: passwords, biometrics, data

Warranty Bit
Access only when trusted

Trusted Boot
Secured from the boot up

Secure Supply Chain
Built by Samsung

Data protection
Secured from the inside and out

Your data can be in safe hands in use on the phone, on the web, or even when your phone is misplaced.

Data Encryption
File-Based Encryption and DualDAR*

Permission Usage
Protecting personal data privacy

Secure Wi-Fi
Safety on public networks

Samsung Find
Location tracking and remote lock for lost devices

Continuous protection
Knox never sleeps

Security measures to mitigate threats throughout device usage cycle.

App Security
Screening against malware and blocking side-loading

Security Updates
Up to 7 years**

Message Guard
Preventing attacks through SMS/MMS/RCS

RKP & DEFEX
Real-time protection for kernel and app behavior

Managed security
Worry-free for work and play

Security controls to suit your organization's need and streamline workflows.

Knox Suite*
Powerful security controls and analytics optimized for Galaxy

Security Center*
Check security status on device fleet

Android Work Profile
Keep work and play separated

Galaxy AI
Business-friendly AI with data sovereignty

For more information, visit samsungknox.com/security

Read more about Knox

Check out below for more information on key Knox security features.
For all documentations and admin guides, visit docs.samsungknox.com/admin.

[Platform Security] Overview Whitepaper

Knox Vault	Knox Vault stores sensitive data such as biometrics and credentials - in an isolated, tamper-proof secure subsystem with its own processor and memory.
Trusted Boot	Trusted Boot identifies and distinguishes unauthorized and out-of-date boot loaders before they compromise your mobile device.
Warranty Bit	A one-time e-fuse that detects if unofficial software has been installed on your Galaxy device.
Device Health Attestation	Knox Attestation provides a fail-safe way to detect if a device or its firmware is compromised, before allowing device users to use it in the workplace.
Real-time Kernel Protection (RKP)	Prevents unauthorized access or modification to kernel code, ensuring integrity at runtime on kernel level.
DualDAR Encryption* (Data-at-rest)	Allows enterprises to secure work data with two layers of encryption, and supports third party crypto modules. Requires license purchase.
Virtual Private Networks (VPN)	The Knox Platform VPN framework allows the integration of third-party VPN clients in addition to the built-in VPN client.

[Device Management]

Knox Suite*	An all-in-one solution designed to manage and secure Galaxy devices throughout all steps: from deployment, management, to analytics and troubleshooting. Includes: *Knox Platform for Enterprise, Knox Mobile Enrollment, Knox Manage, Knox E-FOTA, Knox Asset Intelligence, Knox Remote Support, Knox Authentication Manager, Knox Capture*
Knox Platform for Enterprise	Built into most Galaxy devices, Knox Platform provides best-in-class security, management, and compliance capabilities. Available as a free license – for standalone or as part of Knox Suite.
Knox Service Plugin	An app that can be added to EMMs, and lets IT admins use Knox features on major EMMs as soon as they're available.
Knox Asset Intelligence*	Data-driven analytics to help improve the management, productivity, and lifecycle of work devices. Included in Knox Suite.
Knox E-FOTA*	Remotely deploy OS and security updates to work devices without requiring user interaction. Included in Knox Suite.
Security Center**	The Security center dashboard insight lets you track vulnerabilities across different Samsung device models in your fleet. Accessible from Knox Asset Intelligence.
Manage Galaxy AI data processing with Knox**	For enterprises where user data can't be processed in the cloud, Knox provides you a way of restricting the features that are cloud-dependent. A Knox feature that's accessible from EMMs with Knox Service Plugin.

*DualDAR and Knox Suite requires commercial license purchase.
  Knox Asset Intelligence and Knox E-FOTA can be accessed as part of Knox Suite, or with standalone license purchase. Licensing model may vary by region.
** Security Center, Managing Galaxy AI data processing are features of Knox Asset Intelligence, Knox Platform for Enterprise respectively.