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Android for Work on a Samsung Knox device

Android for Work Managed Profiles, introduced in 2014, is an enterprise program to provide separation of work apps and data from personal apps and data for enterprises using Bring Your Own Device (BYOD) or Corporate-Owned Personally Enabled (COPE) devices. Business data in Managed Profiles allows IT Admins to apply policies to prevent data leakage, prevent installation of apps from unknown sources, and apply app policies. For more information, see the following link: https://www.android.com/work/

Samsung KNOX, introduced in 2013, is Samsung's defense-grade mobile security platform built into our newest devices. Just turn on the device and you're protected.

The platform security of KNOX is now available for Android for Work, making Managed Profiles secure for enterprises that have strict security requirements such as financial industries, government agencies, and healthcare organizations.

The KNOX platform offers:

- Boot-time protection with Trusted Boot
- The KNOX Warranty Bit does not allow Android for Work to run if the device is compromised
- The TIMA KeyStore does not allow access to cryptographic keys if the device is compromised, and TIMA Client Certificate Management (CCM) ensures keys are never exposed to the Android operating system
- Real-time Kernel Protection (RKP) completely prevents running unauthorized code on the system
- TIMA Attestation allows IT Admins to collect measurements from Trusted Boot to ensure a device is in a trusted state

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In addition to the KNOX platform, Samsung explicitly added three default features available for Android for Work including:

- Sensitive Data Protection (SDP) is enabled by default for apps inside Managed Profiles. There is no license requirement, but the SDP Application Program Interface (APIs) must be integrated to use this feature.
- The TIMA KeyStore is used by default
- The integrity of the device must be in an approved state or Android for Work cannot be used

For detailed information on KNOX, see the whitepaper *Samsung KNOX Security Solution* on the KNOX website: https://www.samsungknox.com/en/support/knox-premium/white-papers