

# APP-A1X55

NFC-ID credential for Android OS using HCE (Host Card Emulation) architecture



Rosslare created the APP-A1X55 app for adding the HCE service to Android devices, supporting NFC to be used with a variety of Rosslare's physical access control readers that support NFC technology. The app, which runs in the background, provides an NFC unique ID (UID) based on the device fixed parameters.

## GENERAL DESCRIPTION

The app runs as a service in the background and allows an NFC-enabled Android mobile device to send a UID over its built-in NFC.

Utilizing a WoF (Wake on Field) design, the background app remains in Sleep mode and only activates the NFC service only when in proximity to an NFC enhanced reader, thereby consuming minimal device power.

## Key Features:

- Easy to install and use
- Compatible with a wide range of NFC-enabled Android mobile devices
- Generates a UID based on fixed device parameters; IMEI and WLAN MAC address
- Future path to RT token authentication features possibility

# SPECIFICATIONS

## SOFTWARE SPECIFICATIONS

■ Android Versions Supported	Android 4.4 (Kitkat) and above
■ HCE (Host Card Emulation Mode)	Utilizes onboard Android HCE libraries
■ Background Mode	WoF (Wake on Field) technology for power saving; Human intervention is not required for usage

## OPERATIONAL SPECIFICATIONS

■ Connectivity	Compliant NFC forum 2016 specifications
■ UID Length	Up to 56 Bytes The reader transmits the ID depending on the reader output format.
■ NFC Data Transfer Speed	424 Kb/second
■ Encryption	Not encrypted RFID

## ABOUT ROSSLARE SECURITY

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5505-0308101-00  
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