

Advantal's OTA Solution

KEY FEATURES

- ☛ The device connects via mobile broadband from a mobile operator, and from there the new firmware can be transferred.
- ☛ SIM parameters from 3G WCDMA, 4G LTE, 5G network when required.
- ☛ Update push and management of devices as per custom user-groups.
- ☛ In-built OTA management mechanism along with the OTA server for ease in device and update management.
- ☛ Configuration and management of the device and SIM card over the air.

- ☛ SIM Remote Management (SRM) and application management, along with custom backend application for anytime updates.
- ☛ Option to choose the update parameters like: Security update, OS patches + app or only app updates.
- ☛ Roaming management & application deployment with rollback features.

Advantal's OTA platform provides a single point of control for the Over-The-Air (OTA) management of subscribers, their devices and their access to wireless services primarily by using certain modules.

The OTA platform is intended to be a single logical solution, with integrated functions such as an integrated Subscriber, SIM and Device Updates.

Ability of load (to admin panel) and push (to end-user android devices) OS and security patch updates and set it to, optional or mandatory.


All the electronic systems with smart capabilities depend on a line of code that enables them to perform many tasks as assigned by their users. In embedded systems, assembly language was the prime example of bases of coding.


Our goal is to eliminate any issues related to ensuring safe device-to-cloud communications. Our solution ensures an intact exchange of firmware, software and the data between OEM & device.

OTA Features

SPECIAL FEATURES

- 🔧 Updates are quick and seamless with minimal downtime.
 - 🔧 In case the update is buggy/broken or if the update failed, you have the ability to boot into the older, working slot to avoid significant downtime.
 - 🔧 Uses half the space for the firmware as a similar A/B device, reducing BOM cost compared to A/B.
 - 🔧 The recovery allows for easier access for engineers to update devices manually.
- 🔧 Generating and storing software versions in the cloud-based Software Repository.
 - 🔧 Uploading OTA required software into the local device storage.
 - 🔧 Installing new software and/or updating existing software.
 - 🔧 Support to 3G/4GLTE/5G network technologies.
 - 🔧 Our solution ensures an intact exchange of firmware, software and the data between OEM & device. The OTA system ensures that the firmware and software updates are deployed to the target device group irrespective of the geographical area.
 - 🔧 OTA solution for OS patch updates and SIM configuration with (1+1) redundancy in any (or custom) WAN.
 - 🔧 Our goal is to eliminate any issues related to ensuring safe device-to-cloud communications. Our solution ensures an intact exchange of firmware, software and the data between OEM & device.
 - 🔧 Ability of load (to admin panel) and push (to end-user android devices) OS and security patch updates and set it to, optional or mandatory.
 - 🔧 Integration with 3rd party providers and services like: WAF, SMSC, MDM, SYSLOG etc.



 Installation does not fail under any conditions, as there are no personnel to fix it. Thus, engineers at Advantal follow the highest standard of update reliability by verifying sustainability on every step. If software update is interrupted due to any external factors, a system is designed to roll back to the previous state from the backup.

Contact for Support

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