

FIRMWARE OVER-THE-AIR UPDATE

5 aspects to consider before carrying out an update

It is a challenge to manage software updates for thousands of devices remotely. Therefore, it is essential to find the right means to perform software rollout processes reliably and securely. There are several software options you can use to do this. Whether you buy enterprise software, develop your own solution, use existing open source software or rely on a managed service: This checklist will guide you through the requirements of FOTA (firmware over-the-air) solutions and help you find a software solution that meets your needs.

1

Business case

Are you aware of your specific OTA use case (e.g. bug fixing or adding new features)?

Have you done a cross department analysis of potential stakeholders of your OTA update?

Do you need a campaign with an increasing number of devices (e.g. to manage and distribute digital Content)?

Is your solution able to scale with your business demands?

2

Team, time & costs

Does your company have the know-how to develop or implement OTA functionalities?

Are enough resources available to operate your solution?

Do you have time to develop your own OTA solution?

Can you quantify the costs for 24/7 availability?

Do you know the costs of your infrastructure and server capacity?

3

Device connectivity

Are your devices already connected to an existing digital infrastructure?

Do you have a solution to provision your devices?

4

Security

Do you know how to update your devices in a secure manner (e.g. for security-relevant equipment)?

Are you aware of how to connect your devices to the back-end using state-of-the-art security mechanisms (e.g. certificated-based authentication)?

5

Features

Is a user interface important to you?

Do you need a software artifact management?

Is a solution for campaign management needed (e.g. selection of targets as input for the campaign based on target filter functionality)?

Do you track the update status and history of your devices (e.g. track and monitor software updates on your devices)?

Does your OTA solution need a user management to realize different roles (such as developer, support, or approver) within the update process?

Would you like to automatically stop your rollout when an error threshold is hit?

You already have an IoT platform. Do you have the possibility to integrate additional FOTA features?

Is your device already running a software update client?

Did you answer 'No' to most of the questions?

Then please [contact our FOTA experts](#) at Concept Reply.