# 5 things to consider before realizing a SOTA/FOTA use case

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## Why you should be aware

Managing software updates of hundreds or thousands of devices can be quite a challenge. Finding the right means to handle software rollout processes in a reliable and secure way can be a difficult decision. You can either build your own solution, use existing open source software, or rely on a managed service. With this checklist we want to guide you through the requirements of Software-/Firmware updates over the air (SOTA/FOTA) solutions and find the solution that suits your needs best.

### 1 Team, time & costs

|  | yes | no |
|---|---|---|
| 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? | | |

### 2 Business case

| | | |
|---|---|---|
| Is your solution able to scale with your business demands? | | |
| Are you aware of your specific OTA use case (e.g. bug fixing or adding new features)? | | |
| Do you need a campaign with an increasing number of devices (e.g. to manage digital content and distribution)? | | |

**Half way done!** You are now aware of the basic operational requirements before realizing a SOTA/FOTA use case.

## Let's jump right into the next step, the technical requirements.

## 3 Device connectivity

Do you have a solution to provision your devices?

Are your devices already connected to an existing digital infrastructure?

## 4 Security

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

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 keep track of your devices update state and history (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?

Do you need the opportunity 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 SOTA features?

Is your device already running a software update client?

**Did you answer 'No' to most of the questions?** Or, want to discuss uncertainties over any aspects, at Bosch.IO we have many SOTA/FOTA experts that can help you with information and vital tips. We'd be delighted to join you on your journey to a SOTA/FOTA solution.

## Schedule your meeting with our SOTA/FOTA experts!

## Contact