Automated installation of client certificates on handheld scanners

Safe - fast - simple

Change Driver

An international food discounter with almost 5,000 branches across 8 European countries uses handheld scanners to mark the prices of its products on the shelves.

In the future, the handhelds will connect to the ERP software via a newly implemented Wi-Fi architecture in order to obtain the current prices.

In order to set up Wi-Fi access client certificates are initially required on the scanners. At present, this is only possible via a manual process, which has to be carried out by an IT specialist using a time-consuming PC connection.

The IT manager is therefore looking for an automated, resource efficient method of rolling out the client certificates across 18,000 handheld scanners.

Damovo Approach

Damovo has developed an app that enables the automated rollout of the client certificates on the handheld scanner by the employee in the branch office.

The scanner first establishes a direct connection to the central RADIUS server in the Damovo data center via an open WLAN access point (provisioning WLAN). When the employee in the branch opens the app, the following roll-out process starts:

1) The app connects to the Radius server and uses the API to create a client certificate.

2) When it is generated, the certificate is automatically installed on the handheld scanner.

3) The app now interrupts the connection to the open provisioning port and establishes a secure WLAN connection with the installed certificate.

How **IT** benefits

The automated rollout of certificates for the handheld scanners across all locations has been achieved in a very short period of time.

The need for extra IT resources for this project has been removed - saving significant costs.

IT specialists now have time for other value-adding projects and activities.

How the **company** benefits

After the conversion to the Wi-Fi architecture had been completed, it was possible to continue operations within the branches without interruption.

The employees on site were relieved and motivated by the simple handling of this process.