Online certificate distribution for ST33KTPM-IDevID products

Introduction

STMicroelectronics offers the Online Certificate Distribution (OCD) service to provide customers with the certificates provisioned in ST33KTPM-IDevID devices. This brings the following advantages:

- OEMs can get access to the list of certificates directly once ST33KTPM-IDevID parts are shipped to ODMs.
- OEMs can easily enroll IoT devices to cloud networks.
- OEMs can easily generate new certificates with another certificate authority (CA) than STMicroelectronics's.
- OEMs can prevent supply chain security issues by revoking certificates of lost or stolen shipments.

The OCD service offers the following features:

- Physical delivery of ST33KTPM-IDevID products provisioned with keys and certificates.
- A zip file containing all certificates of the reel ordered by the customer.
- Secure access to myST platform: certificates and documentation related to the OCD service are accessible through the customer secure account on the MyST platform.

This application note applies to the to ST33KTPM-IDevID devices.

Figure 1. OCD

Reel

DT79803

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For further information, contact your local STMicroelectronics sales office.

www.st.com

1 Online certificate distribution

1.1 OCD overview

Two different ways are available to access the OCD service:

- By scanning the QR code located on the labels present on the reel, on the sealing bag packing, and by logging on to MyST secure account. The text "Scan to download certificate bundle" is printed below the QR code.
- By going on the certificate claim page and entering the commercial part number (CPN) and the reel ID.

Figure 2. ST33KTPM-IDevID certificate delivery schemes
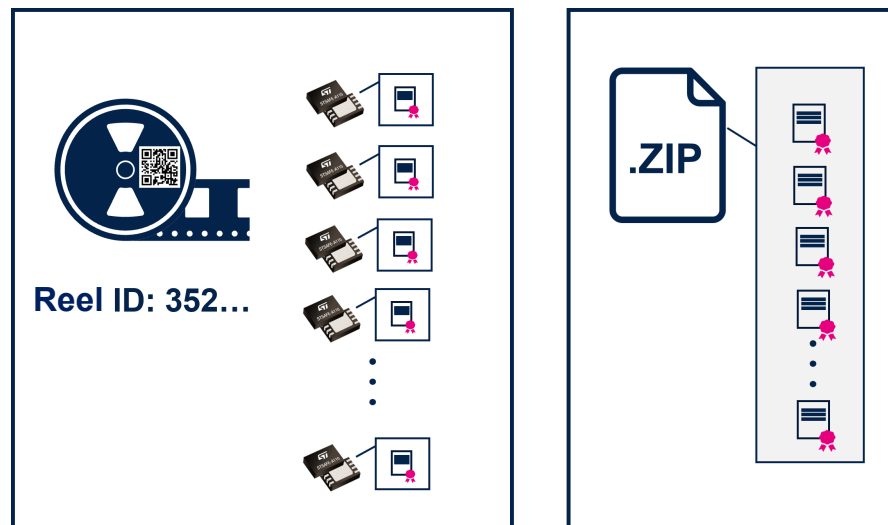

Customers can then access reel certificates and download all documents related to the OCD service.

1.2 How to benefit from the OCD service to enroll the devices

The security of the cloud-based services relies on the strict authentication of the connected objects.

A cloud account containing the X.509 certificates of the objects can strictly authenticate the connected devices where the ST33KTPM-IDevID is mounted. Each device can be enrolled one by one, by registering its X.509 IDevID certificate.

This authentication requires that the objects are enrolled to the targeted services before they are put on the market by the OEM. The OCD service enables each connected object to enroll one at a time, without any certificate query needed on the object.

Figure 3. Device enrollment
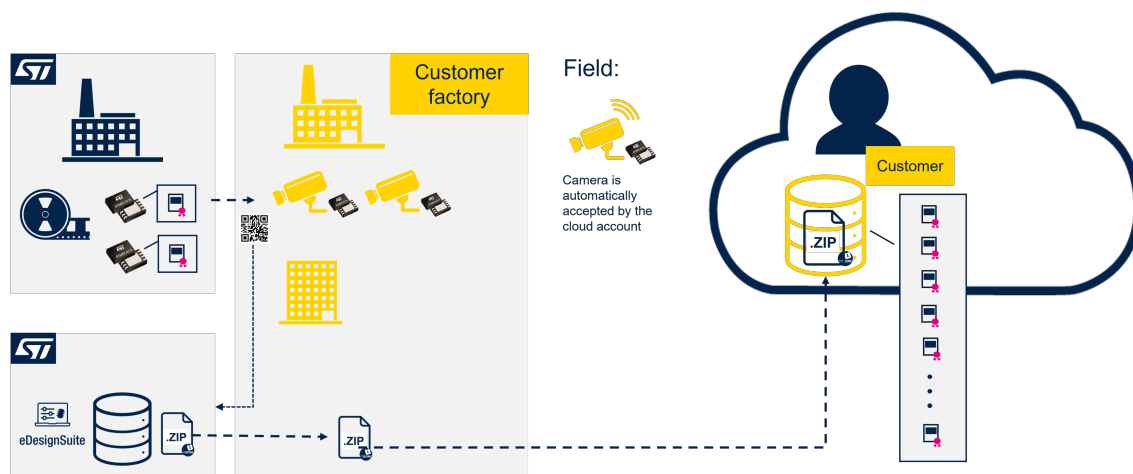
Enrolling each single device to a cloud account

ST33KTPM-IDevID includes an X.509 IDevID certificate that contains a unique ID and a key, to be able to authenticate the device.

A cloud account containing the X.509 certificate can use it to authenticate the connected device where the ST33KTPM-IDevID is mounted. Each device can be enrolled by registering the X.509 certificate to the cloud account.

Revision history

Table 1. Document revision history

Date	Revision	Changes
05-Nov-2025	1	Initial release.

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