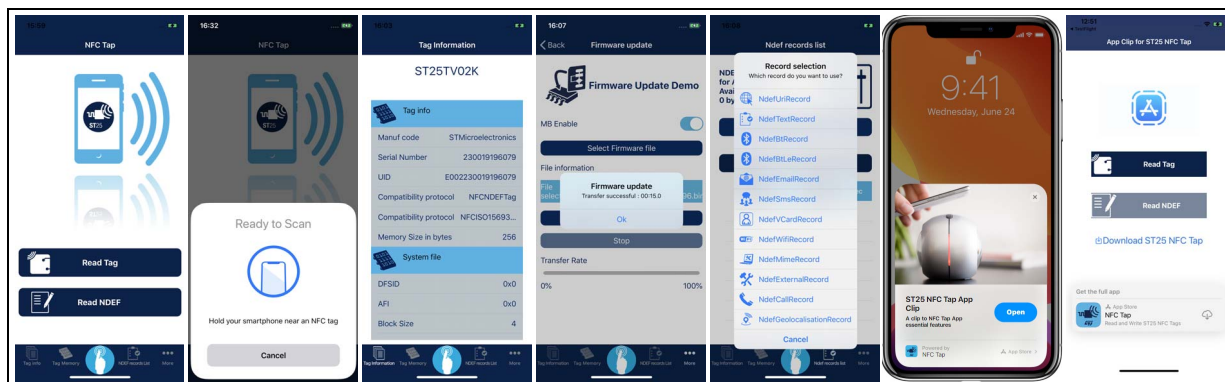


### Features

- ST25 NFC Tap app clip with new NFC user experience
- Read / Write NDEF messages, NFC Forum compliant example
  - URL
  - Text, SMS and Email
  - vCard
  - Phone call
  - Bluetooth® pairing
  - Calendar event
  - Geolocation
  - URIs
  - Mime and external records
  - Custom App URI scheme “nfctap://”
- Reads and writes user memory for ST25 Type 5 tags
- ISO15693/NFC Forum Type 5 commands list user interface
- Tag information, CC file, System file (for ST Type 5 tag products) retrieval
- Password management (password authentication, tag protection)
- Specific functionalities
  - Counters, GPO control and memory area configuration
  - TruST25™ digital signature
  - Tamper detect capability
  - EAS (electronic article surveillance)
  - Privacy protection
  - PWM (pulse width modulation) outputs setting and control, and register management according to tag found
- Fast transfer mode demonstration with ST25DV-DISCOVERY kit
- ST25DV-PWM demonstration
- Supports every product belonging to the ST25 NFC/RFID tags and ST25 Dynamic NFC tags
- Bluetooth® pairing demonstration with ST25DV Discovery kit
- Opens App from URI scheme “nfctap://”
- Rating and review within App
- Support of NFC background tag reading
- Automatical launch of iOS App with universal link <https://www.myst25.com>



## Description

The NFC Tap is an Apple® iOS application that uses the iOS14 expanded NFC to read and write ST25 NFC tags. It allows the user to write standardized data such as URL, simple text or contacts into any tag Types from 1 to 5, and to read or display NDEF messages such as URL, text, SMS, Email, vCard (including picture), phone calls, calendar events, geolocation and any kind of URIs. This application is also dedicated to handle the ST NFC Type 5 tags (ST25TV and ST25DV series NFC tags).

The application embeds the new iOS14 app clip feature, a lightweight version of the ST25 NFC Tap that allows users to read ST25 tag informations (CC file, system file) when they hold an iPhone near an NFC tag with NDEF URL <https://www.myst25.com/clip>.

The application includes a demonstration dedicated to the ST25DV-I2C tag and to the ST25DV-DISCOVERY kit, it downloads a picture from the tag and displays it on the smartphone.

When tapping a ST25DV-PWM tag, the application allows the user to control the duty-cycle of ST25DV-PWM tags at a fixed frequency (500 kHz).

A section menu allows the user to send any ISO15693 commands or to read, write or update the content of any Type5 tag user memory.

The Bluetooth® pairing NDEF demonstration (requiring specific firmware and discovery kits) is also included in the application: it allows the user to pair an iPhone with an ST25DV-DISCOVERY kit, and to display in real time the battery and RSSI levels of the kit.

STSW-ST25IOS001 is the reference for the application and STSW-ST25IOS002 is the reference for the open source code that manages the application according to the ST25SDK software library.

## Revision history

**Table 1. Document revision history**

Date	Revision	Changes
16-Aug-2017	1	Initial release.
15-Sep-2017	2	Updated <i>Features</i> and <i>Description</i> .
07-Nov-2017	3	Updated <i>Features</i> , <i>Description</i> and images on cover page.
21-Dec-2018	4	Added STSW-ST25IOS002, hence updated <i>Features</i> , <i>Description</i> and images on cover page.
17-Oct-2019	5	Updated <i>Features</i> , <i>Description</i> and images on cover page.
24-Feb-2020	6	Updated <i>Features</i> , <i>Description</i> and images on cover page.
09-Jun-2020	7	Updated <i>Features</i> , <i>Description</i> and images on cover page.
06-Oct-2020	8	Updated <i>Features</i> , <i>Description</i> and images on cover page.

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