



Application Note

Elo Touch Solutions
Elo[®] Tablet NFC Reader

ES601064 Rev A



Change History

| Rev. | Description of Change | Release Date | Changed By |
|-------------|--|---------------------|-------------------|
| A | Initial Release per ECO-13-0697 . | 09/04/2013 | Cherrie Soetjipto |

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1. Introduction

The Elo Tablet is equipped with a Near Field Communication (NFC) Reader. This document provides information on card protocols that the Elo Tablet NFC reader supports, how to test the proper function of the NFC reader, and the API calls necessary to integrate the Elo Tablet NFC reader with your software application. For further information on how to work the Elo Tablet NFC reader, please contact an Elo Touch technical representative or customer service.

Visit <http://www.elotouch.com/Support/TechnicalSupport/default.asp> for technical support.

Refer to the last page of this user manual for Elo contact information worldwide.

2. Supported Cards

The Elo Tablet NFC reader supports the following card protocols:

- ISO/IEC 14443A Reader / Writer (including MIFARE product family)
- ISO/IEC 14443B Reader / Writer
- FeliCa Reader / Writer

Note: In order to verify that the NFC reader supports / reads a particular card, please refer to section 3 for instructions on how to do so using the Elo Tablet Diagnostics Suite.

3. Testing NFC Reader Functionality

Users can test that the Elo Tablet NFC Reader functions using the Elo Tablet Diagnostic Suite. The Elo Tablet Diagnostic Suite is a tool that provides Systems information and allows users to test or control the functionality of different Tablet hardware and built-in peripherals. By default, the Elo Tablet Diagnostic Suite is factory-installed onto your tablet. When operating in Windows, the Elo Tablet Diagnostic Suite may be accessed via the Control Panel: Control Panel\All Control Panel Items\EloDiagSuite,

Different applications of the Elo Tablet Diagnostic Suite can be accessed via the main Dashboard (as shown in Figure 1 below), by clicking on their icon. Touch or click the “NFC” icon to access the NFC application.

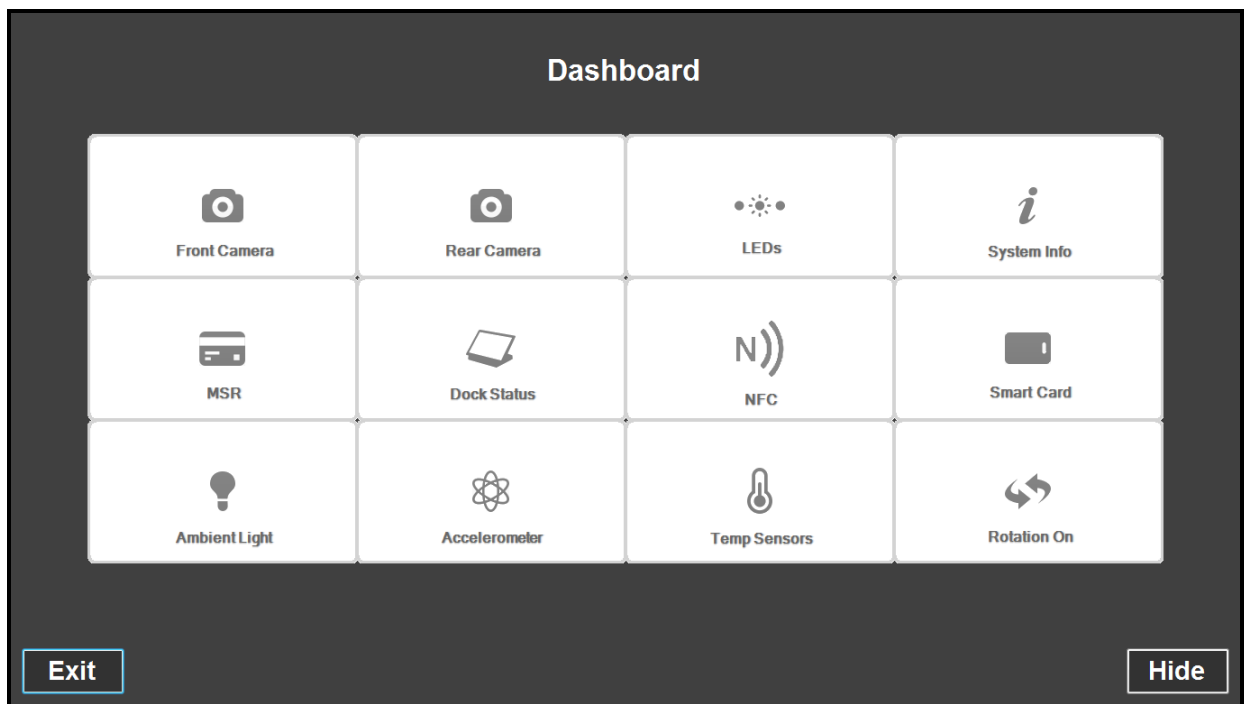


Figure 1. Main Dashboard of Elo Tablet Diagnostic Suite

Application – NFC:

Use this application to test the tablet Near Field Communication (NFC) reader. When NFC Reader is enabled, this application will display the Answer to Reset (ATR) information of the NFC-enabled device or tag that is tapped near the tablet NFC reader.

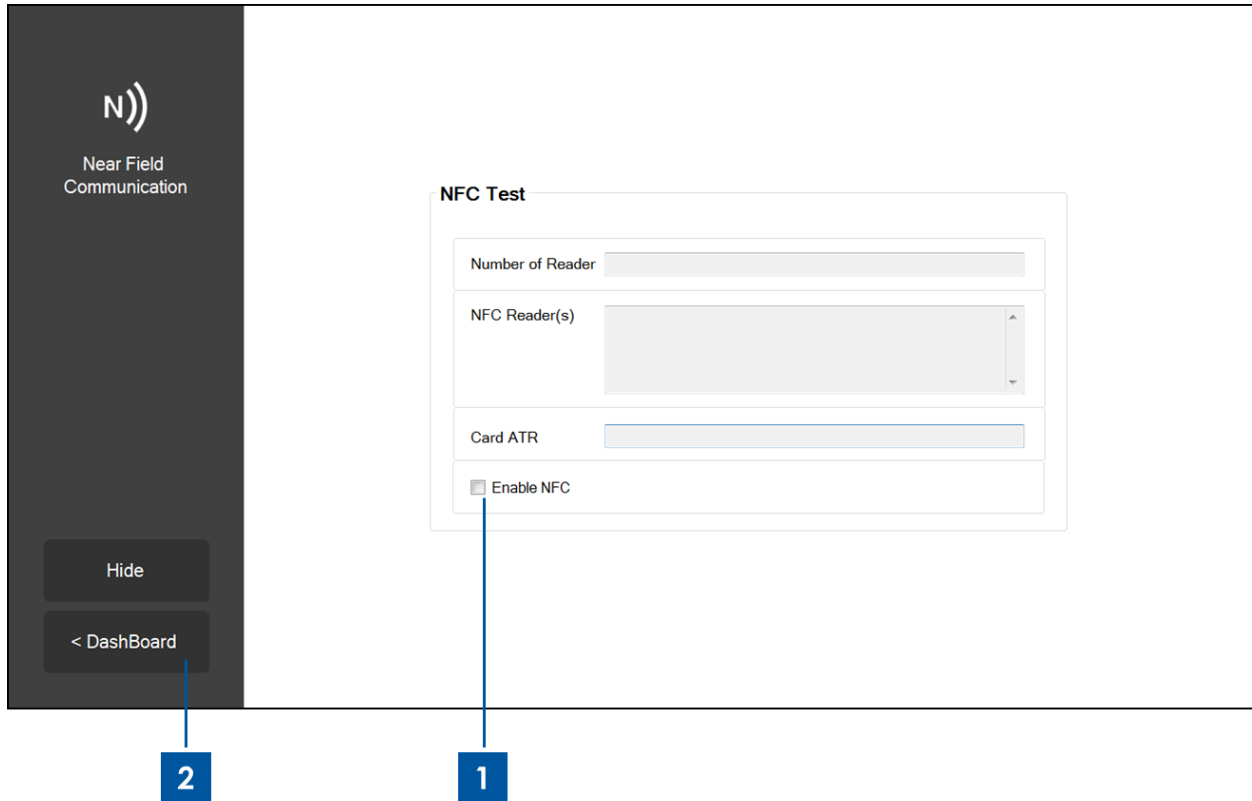


Figure 2. NFC application of Elo Tablet Diagnostic Suite

1. Check box to enable NFC Reader, uncheck to turn it off.
2. Touch or click “< Dashboard” to go back to the main Dashboard. By default, this will turn off the NFC Reader.
3. Touch or click the “Exit” button on the Main Dashboard to exit the Elo Diagnostic Suite.

4. Application Programming Interface (API)

The following Application Programming Interfaces (APIs) are used to communicate with the Elo NFC reader. It will be released as Dynamic Link Library (DLL). The user of the API will need to import the DLL and call the corresponding function listed below.

To turn on or off the Elo Tablet NFC Reader:

EloEnableNFCDevice(unsigned char Data);

Description: Turn ON/OFF the NFC device

IN: 0 OFF

1 ON

Successful Return value: STATUS_OK (0)

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