



F.A.Q.

ALL YOU NEED TO KNOW ABOUT ELARA NFC



PAIRING, COMPATIBILITIES & FUNCTIONS

WHAT IS NFC?

NFC, or “near field communication” is a wireless communication protocol which allows devices to be connected at a short distance (approximately 10 cm) over the 13.56 Mhz band.

This technology is typically used for access- and identity control, in public transportation, as a transit pass or credit card to quickly transfer data, or instantly pair with Bluetooth devices like headphones and speakers.

WHAT FUNCTIONALITY DOES NFC IN ELARA HAVE?

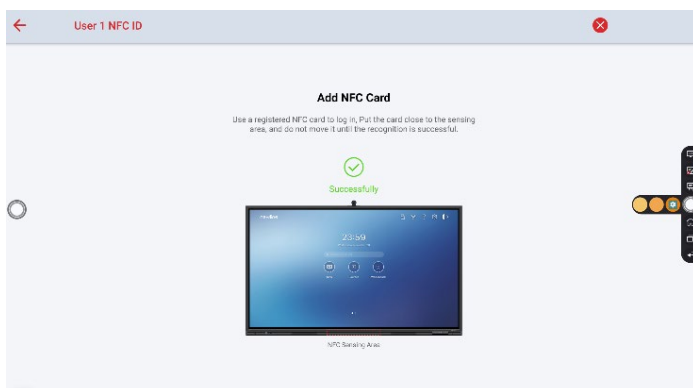
In the Newline Elara interactive display, NFC facilitates the user login.

Through NFC, different users can quickly login without manually entering the login password. Besides being able to log in faster, there is no risk of people in the (class)room seeing the login password while entering it on the display.



HOW MUCH TIME DOES IT TAKE TO CONFIGURE NFC?

The configuration of NFC is very simple, the estimated time to pair an NFC to the interactive display does not exceed **one minute!**



WHAT DO I NEED TO GET STARTED?

In the Elara Android operating system, up to 5 users, 1 administrator and 1 guest can be configured. NFC login can be set up for the 5 users and 1 administrator, not for the guest login.

To use NFC login on Elara, you need **up to 6 NFC cards** (or other NFC chipped items).

NFC chips are available in a wide variety, you can buy cards with NFC chips embedded, tags, key chains, stickers, wristbands and more. Any NFC item will work and cover this protocol, no other protocols are needed.



ISO/IEC A and B, FeliCa, MIFARE 1K, 4K, NFC Forum type 1,2,3,4,5, ISO/IEC 15693 are the common standards, all of these work! **Encryption** however is not supported.

HOW DOES LOGIN AND LOGOUT WITH THE NFC CARD WORK?

Once the interactive display is powered on, you will see the different users that you have configured. Provided that you have set up the NFC access, the user can present the NFC card to the bottom-mid edge of the Elara display.

As soon as the NFC card is within 10 cm of the NFC module in the display, the user will be automatically recognized and logged in (without needing to select a user by touch and entering the login password).

For security reasons, the **logout** process can only be done **manually!!** Either from the main menu by closing the session or by just turning off the screen.



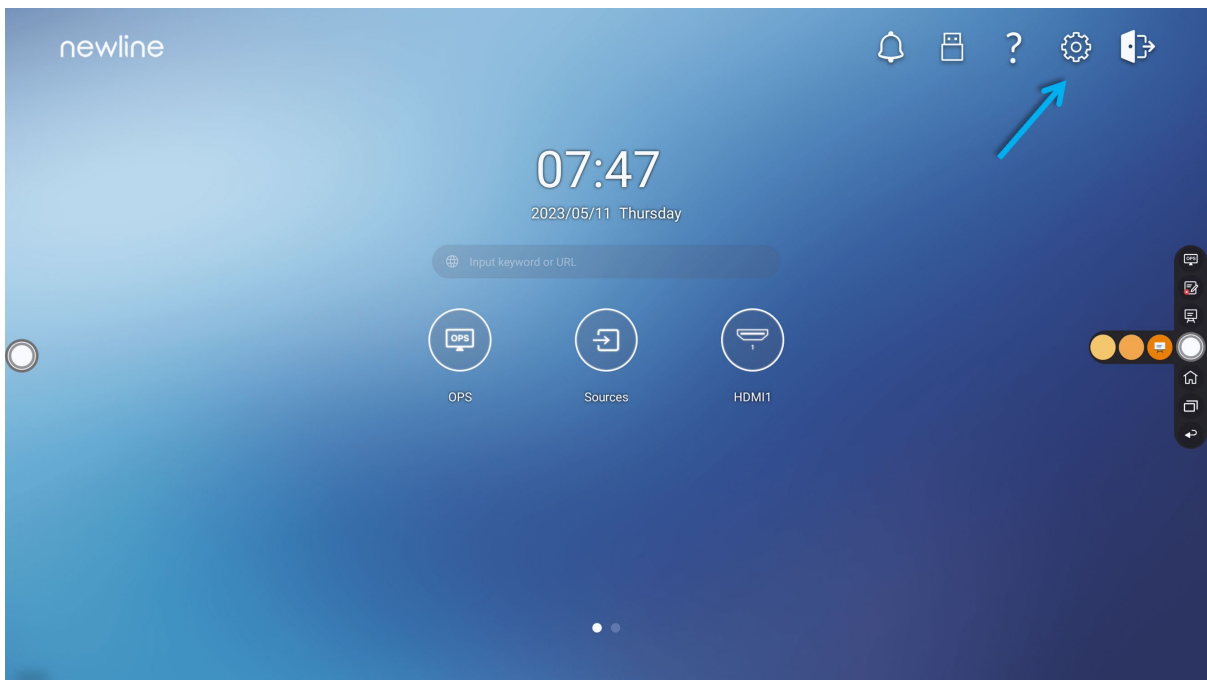
HOW DO I GET MY NFC CARDS TO WORK ON ELARA?

For each user profile, you can connect one NFC card to the Elara interactive display. This can be done by pairing the NFC card to the display through the administrator mode of the menu.










There are two options to access the administrator menu:

1. **Remote control**, through the commands: Up + Down + Up + Down + Up + Down + Left + Right + Left + Right + Left + Right + Volume+ + Volume-.
2. **Code**, through settings > system > advanced > 236460666633

To pair your NFC card to the display, just follow the **blue arrows** through the menu's below:





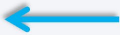
Settings

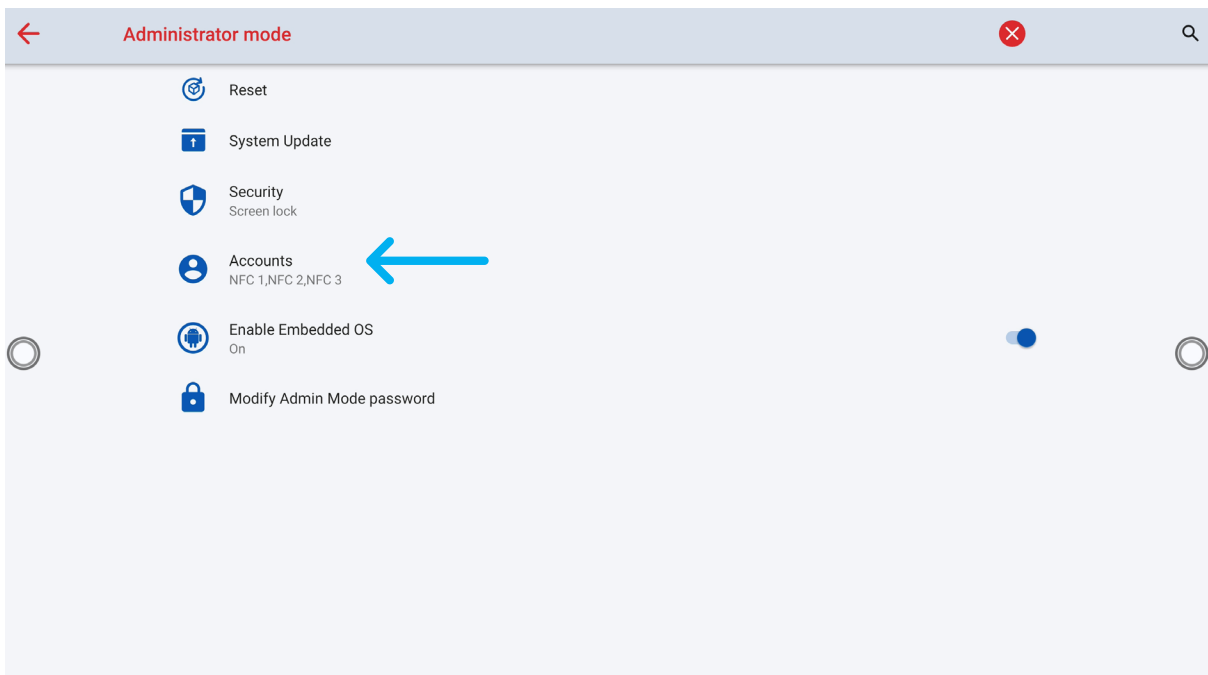
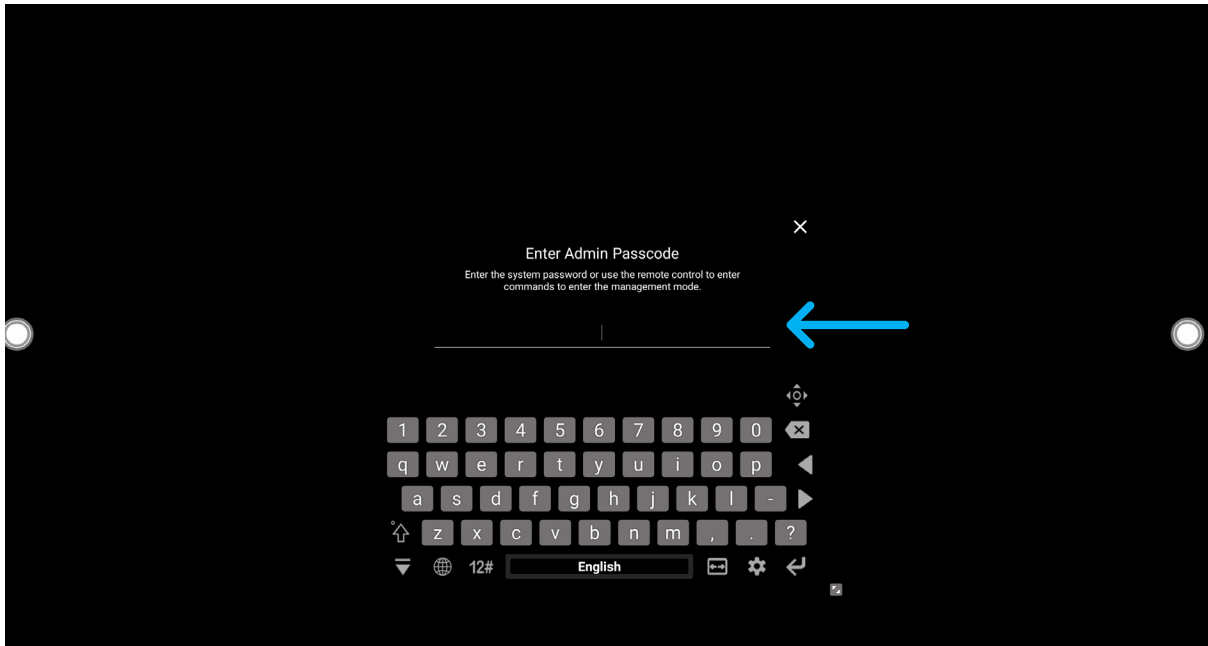
-  **Sounds**
Speaker
-  **Storage**
11% Used - 114 GB Free
-  **Apps**
Permissions, Default Apps
-  **Display & Theme**
Wallpaper, Theme, Logo
-  **Tool Bar**
Customization, Size
-  **Input and Output**
Signal Source Change, CEC
-  **Power**
Power Option, Energy Saving
-  **Screen Eye Filters**
The filter level warms the color temperature of your screen to make it easier to read text on bright screens
-  **System**
Updates, Admin Mode



System

-  **About**
TT-7522Q
-  **Advanced**
Admin Mode






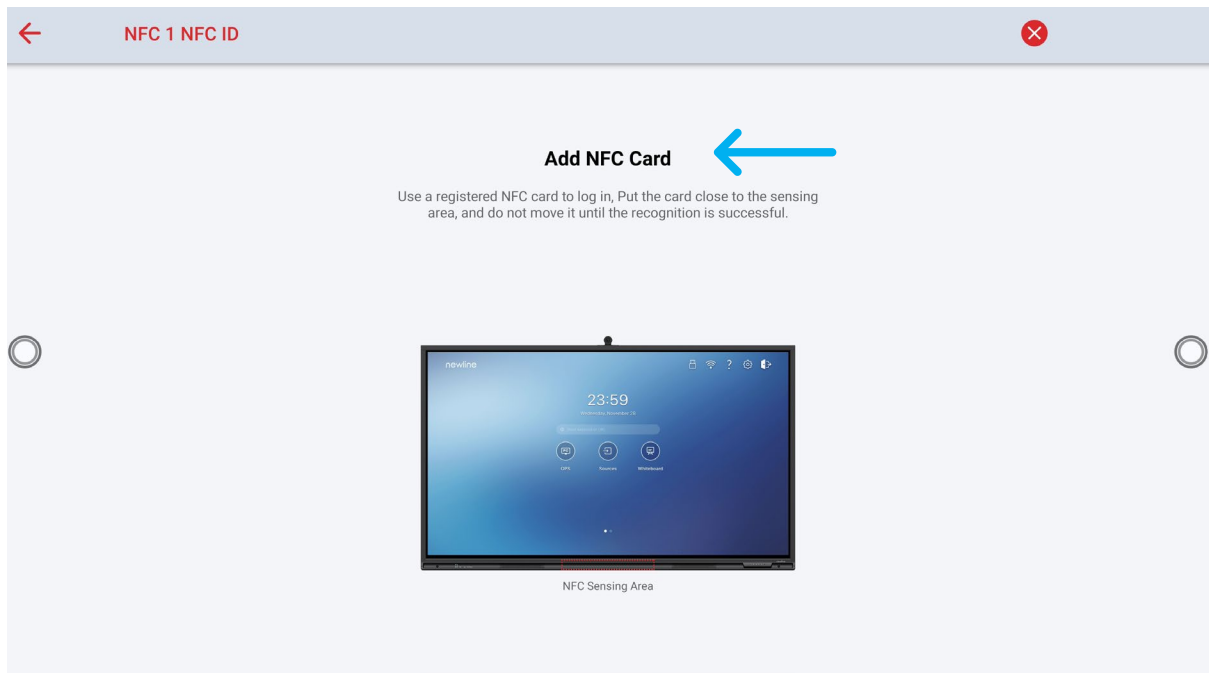
Accounts

- Single user mode**
Single-user mode allows anyone to login without password required.
- Multi user mode**
Multi-user mode allows to create different roles including Onwer, User and Guest.
- Owner**
Admin
- NFC 1** ←
- NFC 2**
- NFC 3**
- + Add new user**
- Guest**

User 1

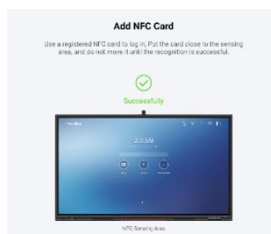
- User 1 Rename**
- User 1 Passkey**
- User 1 NFC ID** ←
- User import**
- User export**
- User 1 Delete**





Once you select the user you would like to pair the NFC card to, you will be requested to present the card to the “NFC Sensing Area” (image above) of the interactive display. Do not move the card until it is successfully paired.

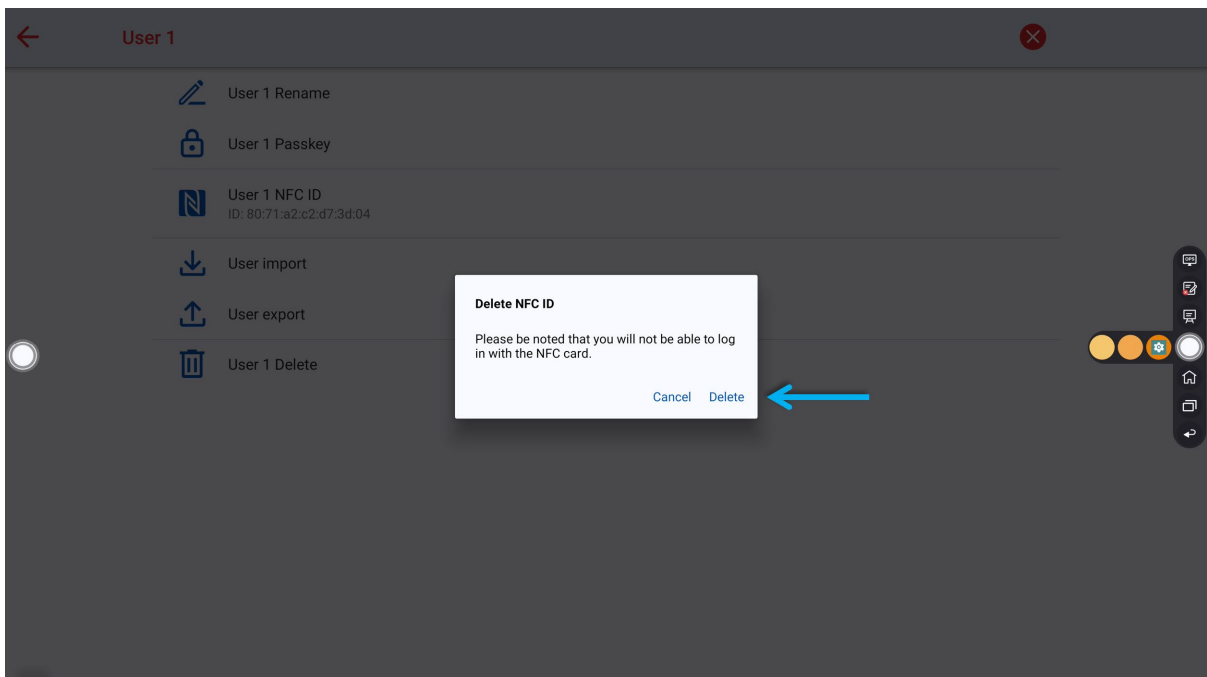
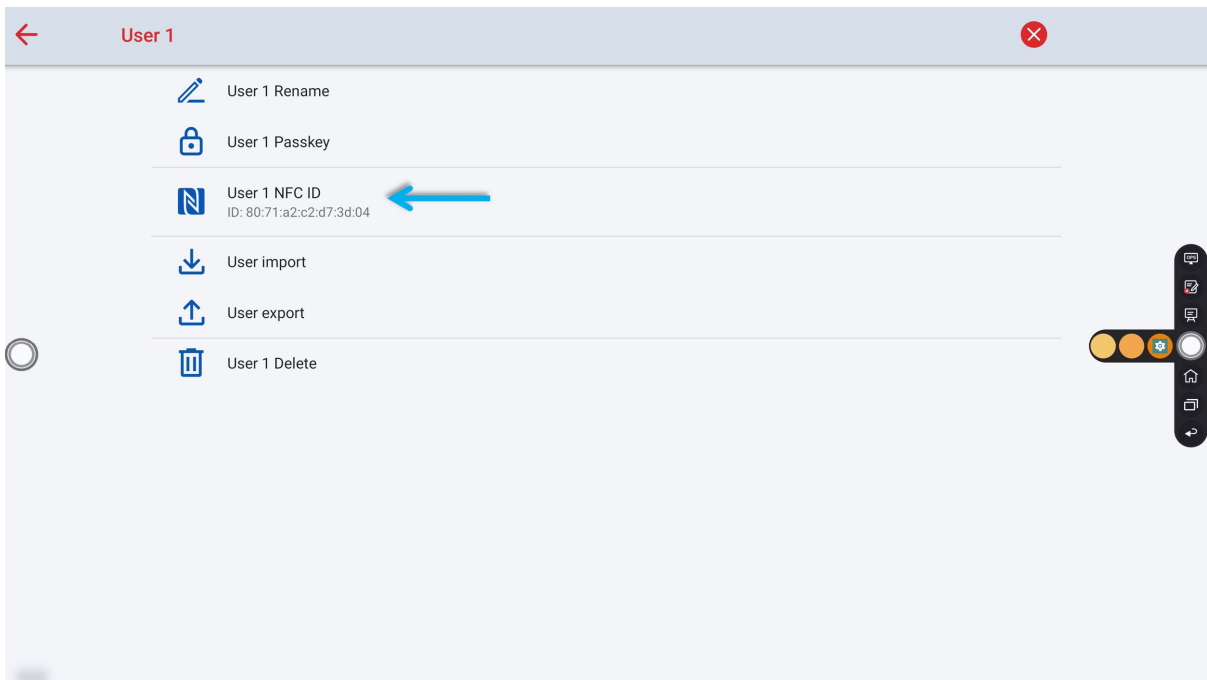
The menu will show you “successfully” together with a “green tick box” when the pairing has been completed. From this moment on the user will be associated with the NFC card for login.



HOW TO UNPAIR AN NFC CARD TO A USER?

To delete any user login, you can repeat the process. Enter administrator mode > select the user you want to delete > click on NFC ID and delete the login.

Once you have unpaired the NFC Card, the card is empty and ready to be paired again with a new user.



CAN I HAVE **DIFFERENT USERS** PAIRED TO THE **SAME NFC CARD**?

NO, for security reasons each user can only be connected to one NFC card. This is to avoid erroneous access of users or duplicated access.

If you want to reuse a card for a new user, you have to follow the process to unpair the card and then pair again. There is no limit to the number of times you can unpair and pair an NFC card.

WHICH NEWLINE INTERACTIVE DISPLAYS ARE SUPPORTING NFC?

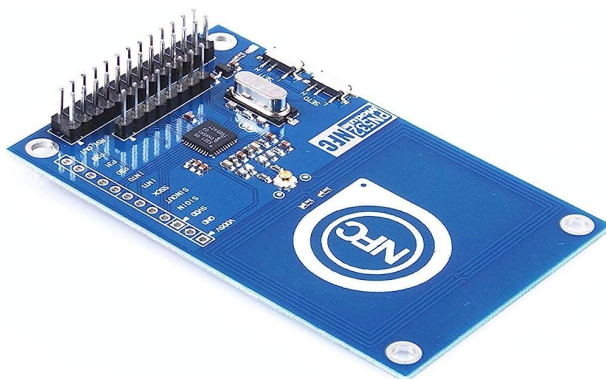
Only Newline Elara has NFC.



CAN I USE AN **EXTERNAL NFC MODULE** IN ANY OTHER NEWLINE INTERACTIVE DISPLAY?

The chance of finding an NFC module compatible with an Android operating system is very small. The chipset of the interactive display needs to be compatible and it needs to be integrated in the functionalities provided by the firmware.

We **do not** recommend the use of any external NFC device for other Newline interactive displays as we cannot assure compatibility.



DO ALL **ELARA** UNITS HAVE **NFC**?

NFC is a new feature, available in all Elara units for sale from Newline Interactive Europe. All our current Elara stock (d.d. June 14th, 2023) includes NFC.

NFC only works if the chipset is physically installed in the Elara. Even with upgraded firmware the NFC function only works with the physical NFC module installed.

DO THE NEW ELARA UNITS WITH NFC HAVE A DIFFERENT CODE?

NO. The product code is exactly the same. NFC is included as a new functionality/product improvement.

As for the PN and the EAN codes, they remain exactly the same.

Part numbers & EAN codes:

TT-6522Q - 850008344718

TT-7522Q - 850008344725

TT-8622Q - 850008344732



WHAT **FIRMWARE VERSION** DO I NEED TO USE NFC?

The official firmware version that integrates firmware support is version 1.1.86. This firmware version is valid for units with and without NFC.

The operating system itself intelligently detects if the unit has NFC, in which case the NFC pairing option will be enabled; while in the case that the unit does not have an NFC chip, the own Android will hide the NFC option for the users.

IS NFC IN ELARA **COMPATIBLE** WITH A **SMARTPHONE**?

Smartphones are designed for personal use. Although these devices have an NFC chipset, the operating system focuses on other operations such as payments, Bluetooth connections, etc.

Therefore, your mobile device cannot be paired with the Newline Elara user log in.

An alternative option is to use an NFC sticker instead of an NFC card. These stickers can be placed on the mobile phone, even inside the cover if preferred. This will simulate a user experience of logging in with your mobile phone!

