

# 2.2 NFC Function - Mobile Scans

**NFC (Near Field Communication)** is a short-range wireless communication technology that allows devices to exchange data when they are close to each other, typically within a range of about 4 cm. Here's how it works:

## Basic Principles:

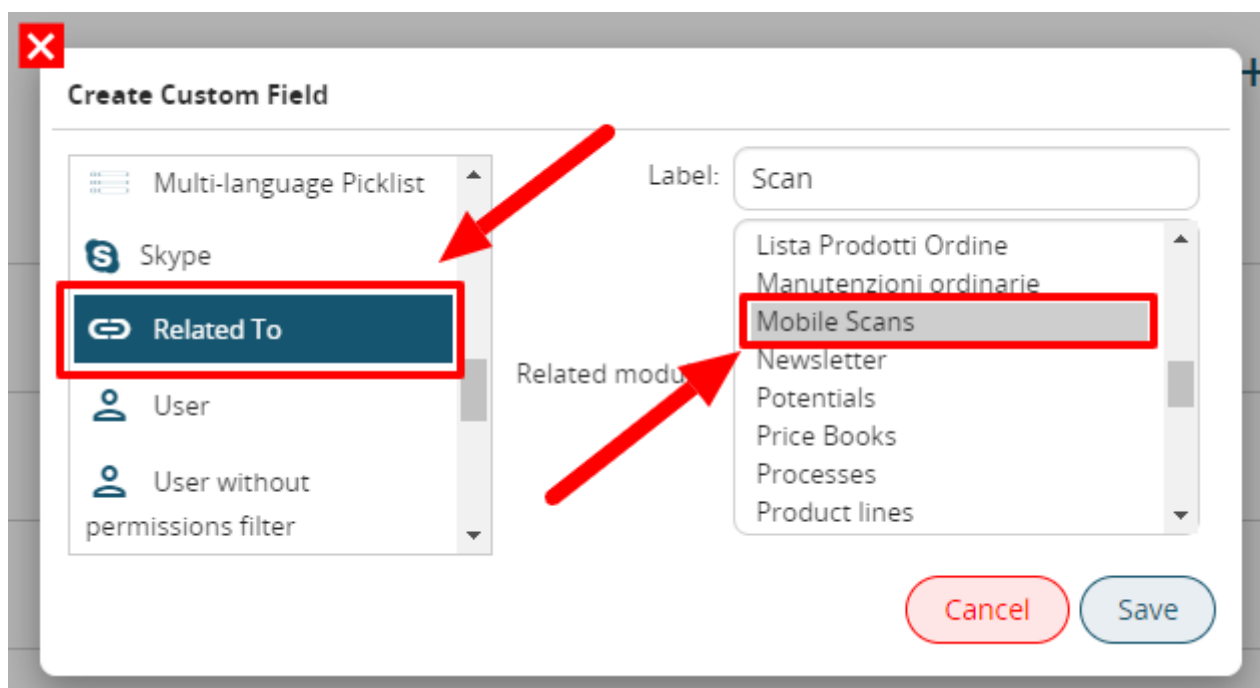
- **Short-range communication:** NFC devices, such as smartphones, card readers, or NFC tags, must be very close to each other to initiate data exchange.
- **Frequency:** NFC operates at 13.56 MHz, a frequency that allows for fast and secure information exchange over short distances.
- **Active and Passive Modes:**
  - In **active mode**, both devices generate an electromagnetic field to transmit data.
  - In **passive mode**, only one device generates the electromagnetic field (e.g., a smartphone), while the other device (e.g., an NFC tag) uses it to power itself and respond.

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## How NFC works in vtenext

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To activate and use this feature, a few configuration steps are required. First, from vtenext's administration panel, go to **SETTINGS > MODULE MANAGER > COMPANIES** (or another relevant module), and add a related field to the **Mobile Scans** module.



This field will be immediately available on the **Wilson App**, and by clicking on it, the screen to scan the NFC tag with the mobile phone will be activated.

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< **User Administrator**  
Collaboratore

Tipo collaborazione

Dipendente interno

Collegato a

Assegnato a

Utente > admin (User Administrator)

Orario creazione

09/01/2019 12:23:52

Orario modifica

08/10/2024 14:55:17

Creato da

admin (User Administrator)

On-site presence

**Informazioni utente**

Nome Utente

admin

Ruolo

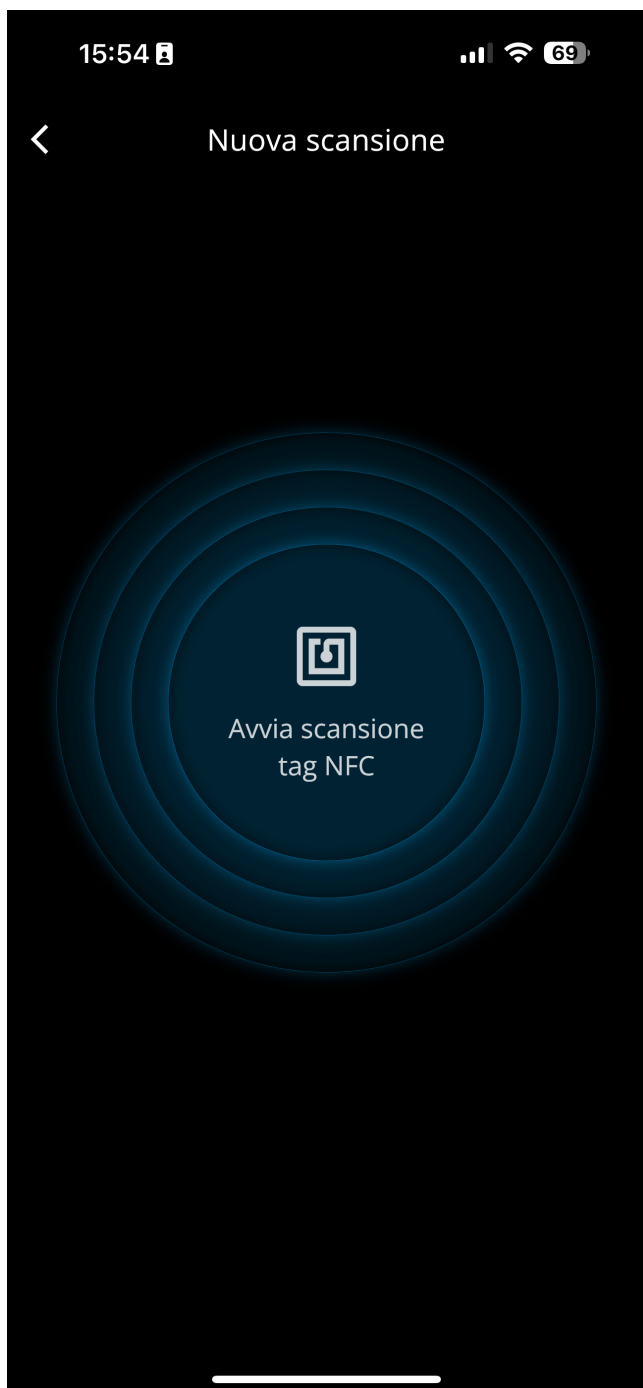
H2

Titolo

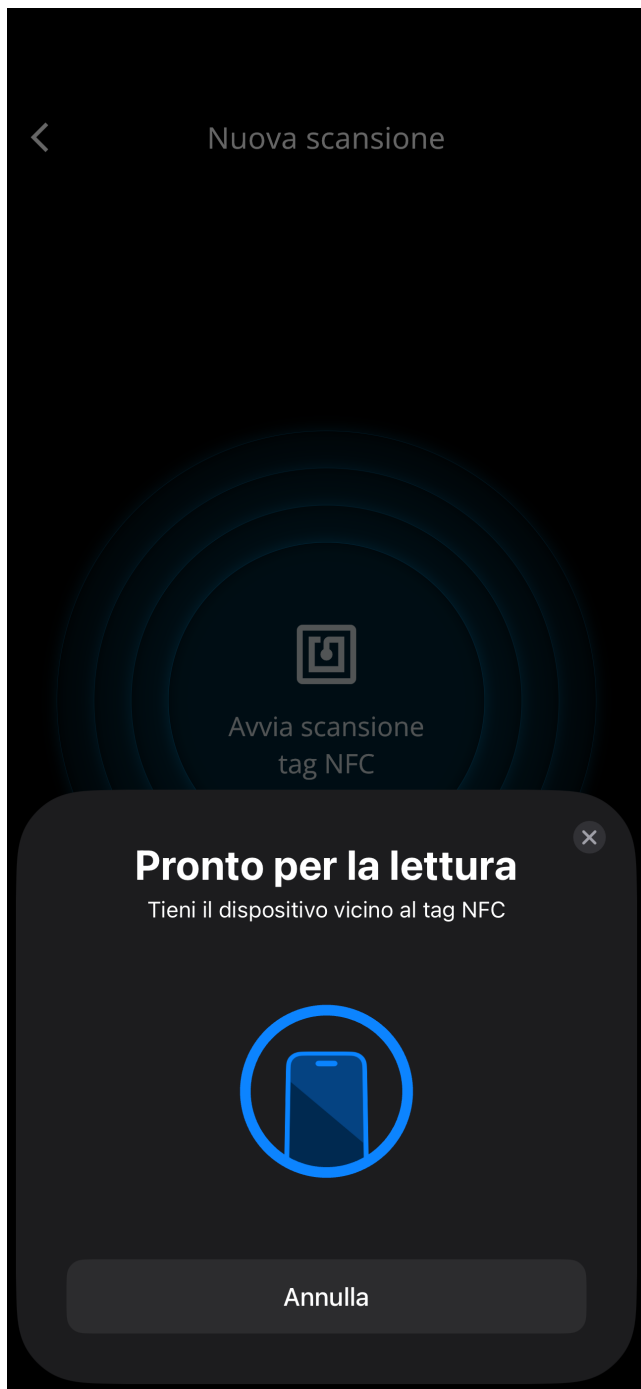
Reparto

SALVA

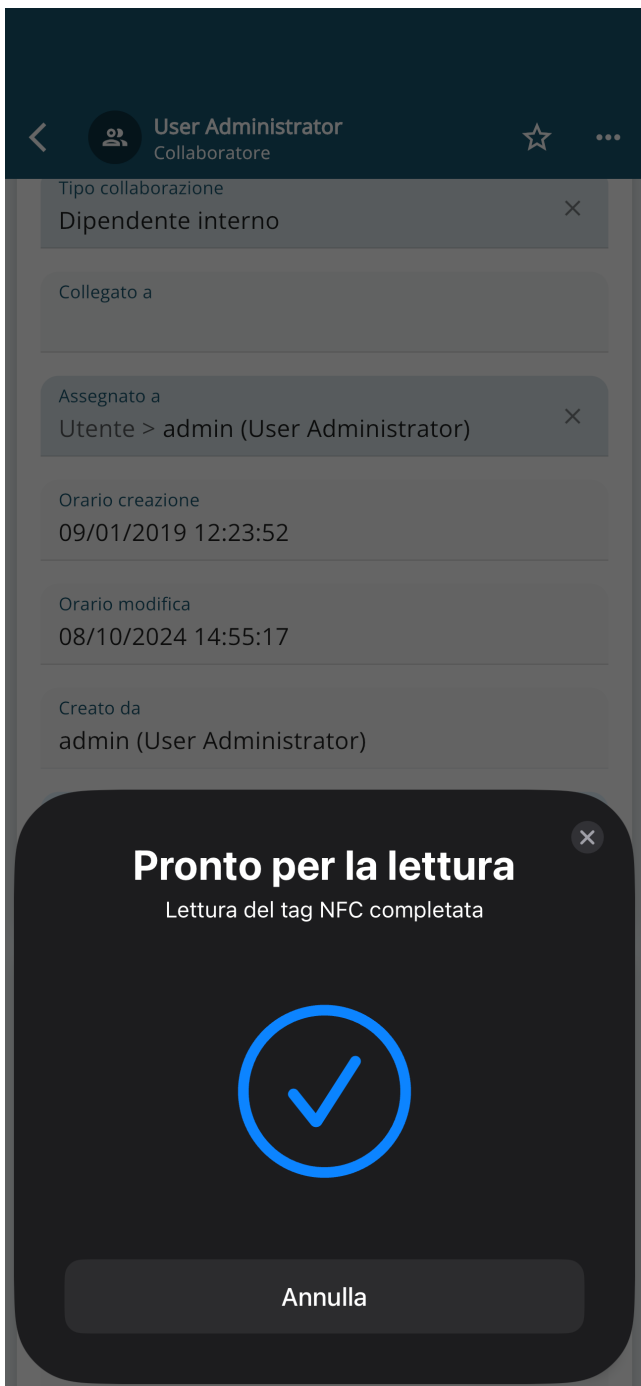
NFC scan field on the **Wilson App** to click on in order to activate the NFC tag acquisition.



*NFC tag scanning startup screen*



*Screen dialog where the system prompts the user to bring the NFC tag closer for reading*



*The tag is captured, and a record is also written in the related field that was previously created*

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User Administrator

Collaboratore

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Tipo collaborazione

Dipendente interno

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Collegato a

Assegnato a

Utente > admin (User Administrator)

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Orario creazione

09/01/2019 12:23:52

Orario modifica

08/10/2024 14:55:17

Creato da

admin (User Administrator)

On-site presence

Scansione Mobile > SCAN-1

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Informazioni utente

Nome Utente

admin

Ruolo

H2

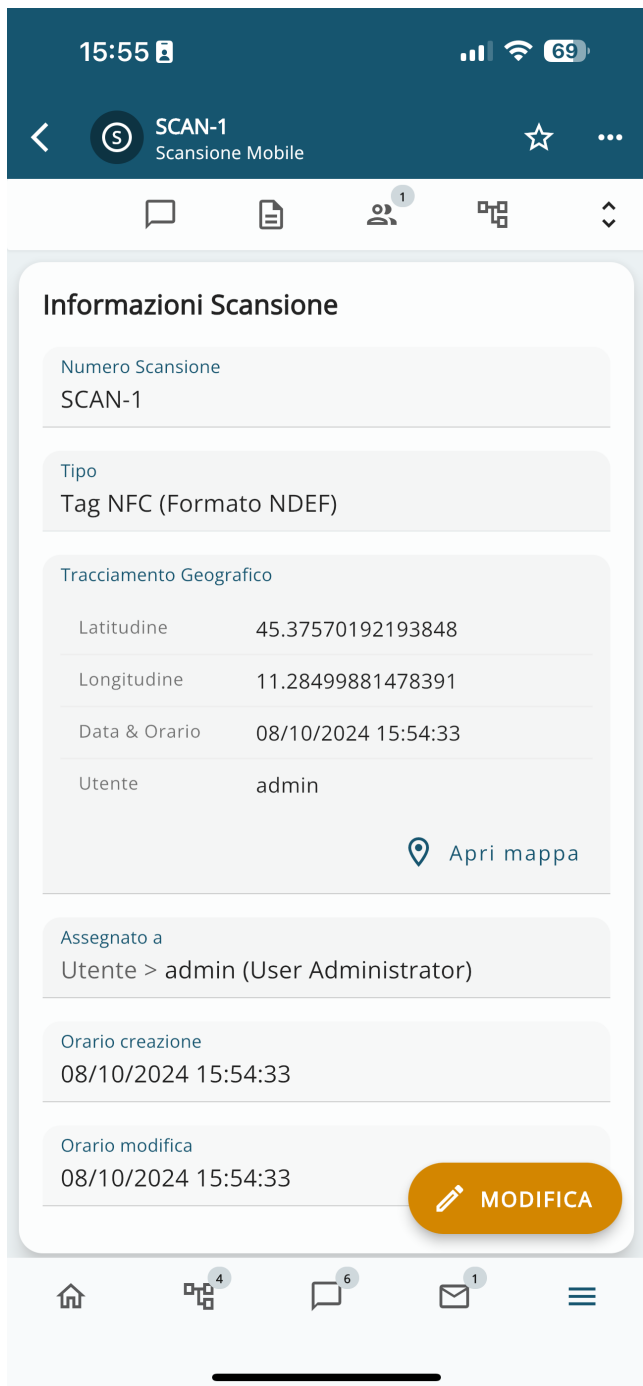
Titolo

Reparto

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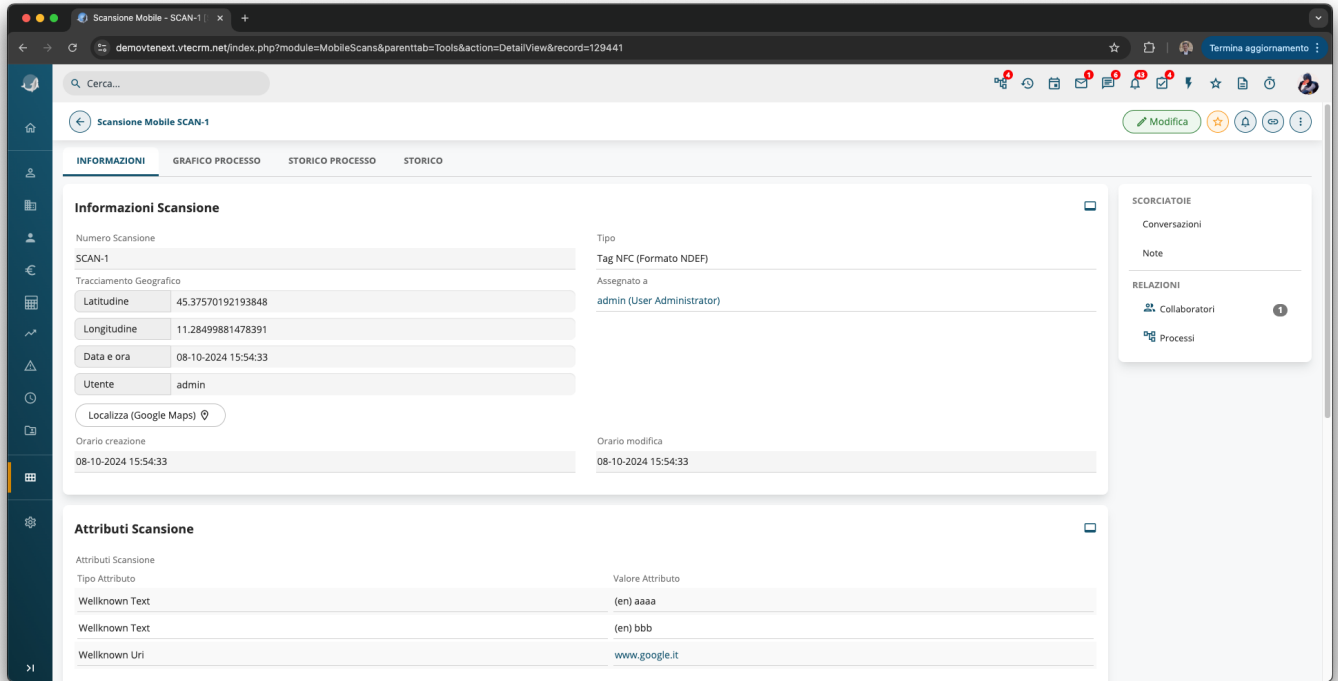
SALVA

*Here is the record as it appears in the related field after being scanned*



*Here is the scanned record in detail (Mobile Scan card as seen from the Wilson App)*





Here is the scanned record in detail (Mobile Scan card as viewed from the vtenext web side)

**Note: The NFC function is also available in the Processes module, allowing a process to be initiated from a scan.**

Revision #5

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