FREJA eID

RELEASE NOTES

MAY 2020

Improved passport onboarding for
Sweden and Norway

Improved security on personal eID

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FREJA eID RELEASE NOTES

These Release Notes describe all the changes made to the Freja eID systems from the previous release. They include:

- Changes from version 5.9.0 to 6.0 of the Freja eID mobile app on iOS.
- Changes from version 5.11.0 and 6.0 of the Freja eID mobile app on Android

Summary

- NFC Passport Onboarding for Sweden and Norway – Adding a Swedish and Norwegian passport to Freja eID has been improved with a new functionality that extracts data from a passport's NFC chip using a phone which supports NFC reading.
- Improved Security on Personal eID – We have added visual and sound effects to the user's personal eID. This security measure ensures that the personal eID is protected from fraudsters.

NFC Passport Onboarding for Sweden and Norway

Passport onboarding for Freja eID users from Sweden and Norway has been improved. If users choose to add a passport to Freja eID, the Freja eID app will extract the data from the passport by reading its NFC chip. This will drastically improve both the speed and accuracy of the vetting process because the data extracted from the NFC chip is much more accurate. Additionally the image of the user taken from the passport is a high-resoultion one, making it much easier to properly identify.

For NFC reading to work, the user needs to own a device that supports NFC. If they do not own a device that supports NFC, users in Sweden can opt to add another document (currently supported are driving licence, national ID card, Skatteverkets ID card and SIS-marked ID cards) since adding those documents does not require NFC reading.

Users in Norway, however, will only have the option to add their document via NFC scanning.

Procedure

After choosing a passport as the ID document they wish to add (for Norway this is the only option, for now), users need to perform a three-step procedure to add it:

1. Scanning the photo page of their passport;
2. Reading the data from the passport's NFC chip;
3. Registering their face.

Step 1

The user needs to open the photo page of their passport and scan it with the Freja eID app. This is done by rotating their device and making sure that they fit the photo page within the frame that is shown to them in the app. When they correctly align the document, the scan will be done automatically (using OCR technology). Once the scan is done, the user will be able to check if the scanned data is correct. If everything is OK, the user can continue to the next step – reading data from NFC chip.
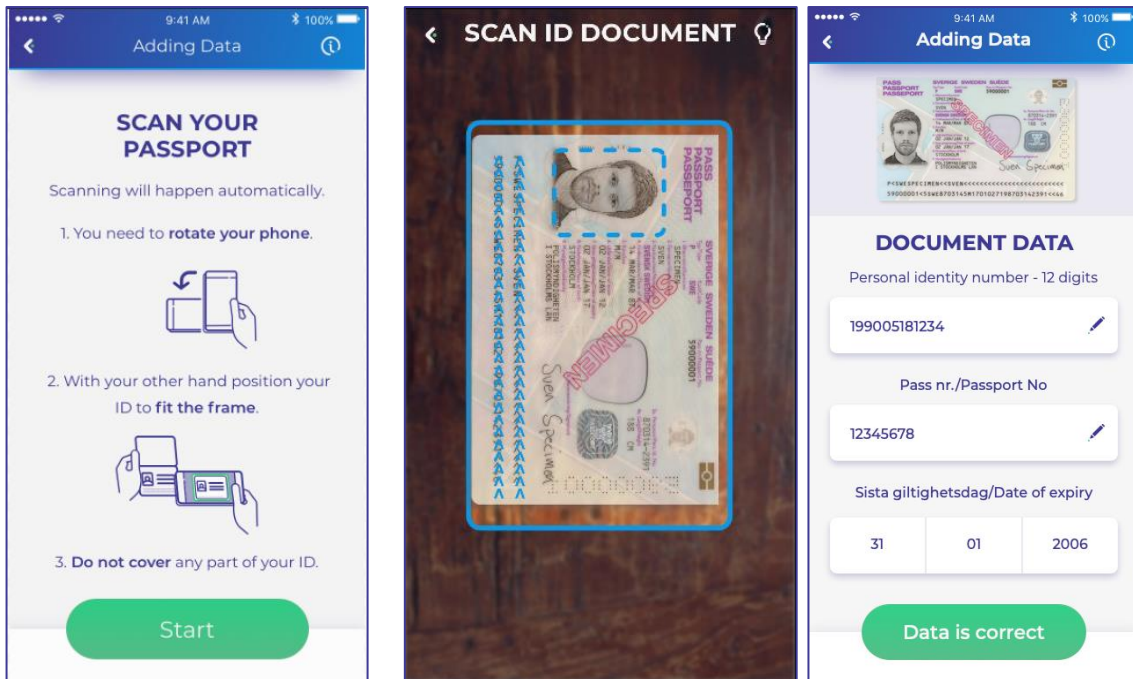
If automatic scanning does not work, users can take a photo of the passport by themselves and enter the required data manually: their personal identity number, passport number and expiry date. Users from Norway also need to enter their given names and surname.
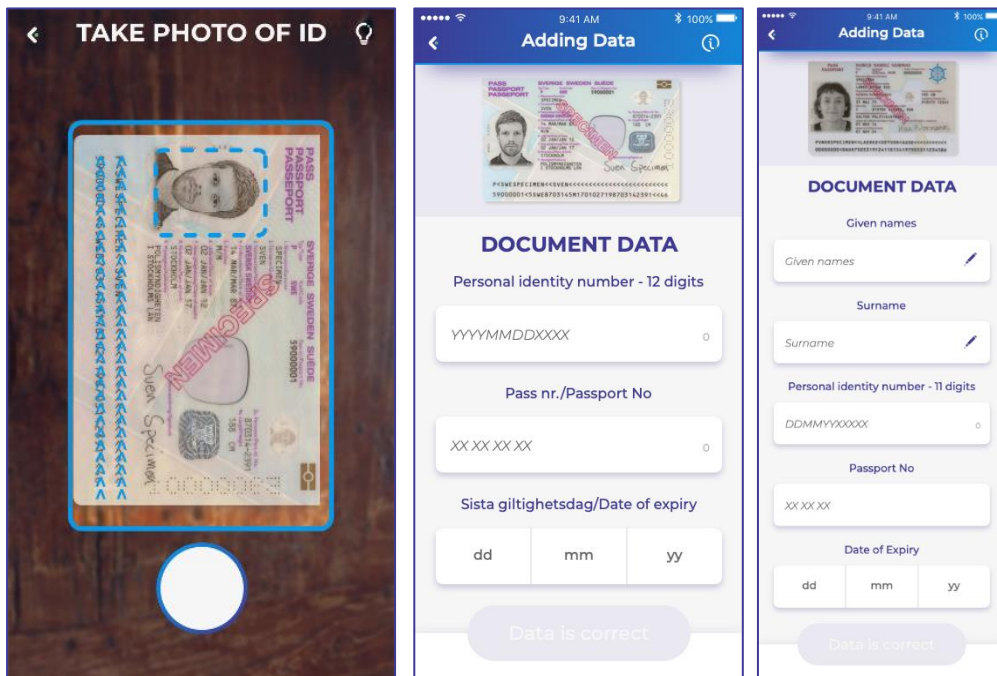

This step is necessary for several reasons:

- The data scanned with OCR is required to unlock the NFC chip in the passport – if there is no match, the user is not allowed to continue with the process.
- The user's photo from the document is compared with the photo retrieved from NFC reading and the selfie photo taken in the step 3.

Step 2

The next step involves reading data from the passport's NFC chip. Instructions on how to do this differ depending on the platform (Android or iOS) and are also explained both in the content and animations inside the Freja eID app, but in short:

- An iPhone user should place the top of their device on the middle of the closed passport and wait for reading to begin.
- An Android user is instructed to place the device onto their closed passport and then to drag it down until the signal is caught.
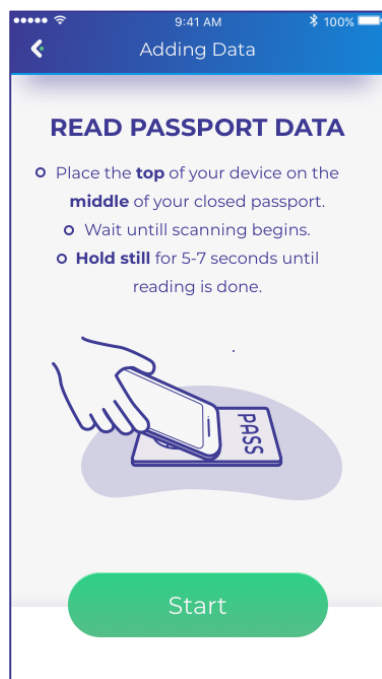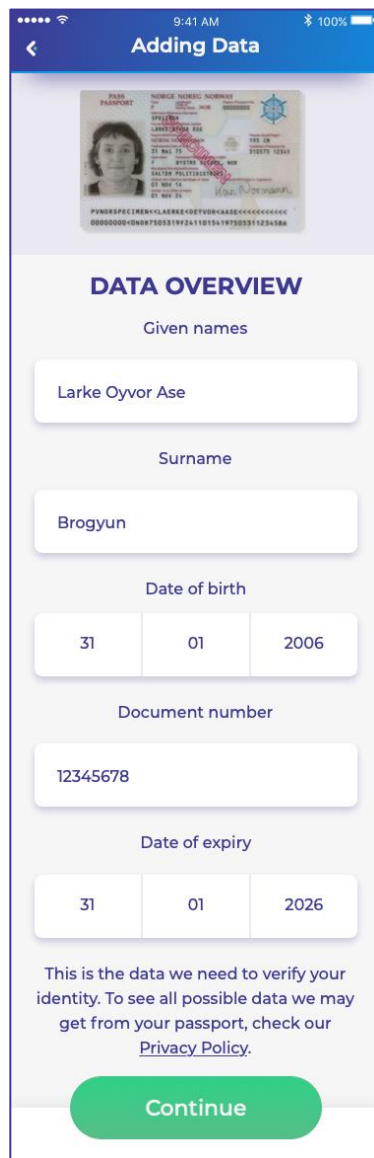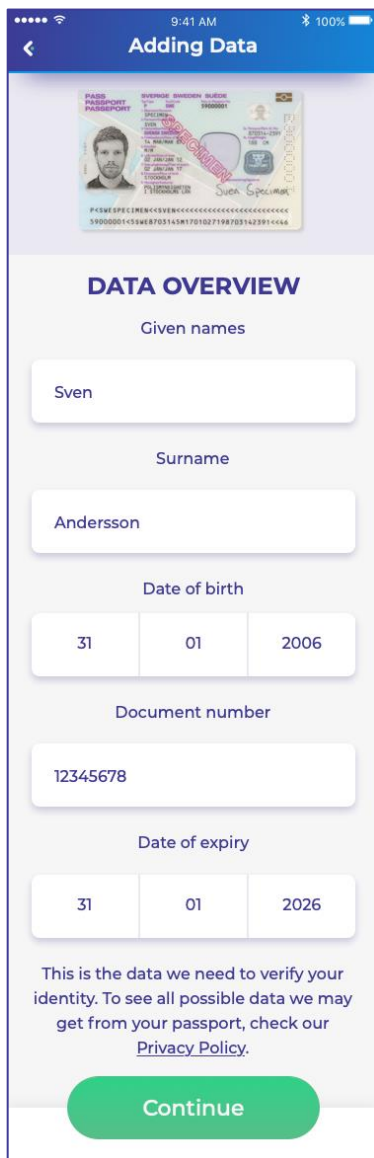

	iOS		Android

The end result is shown on the next screen – Data Overview – where the user can see which data was just retrieved from their passport. This overview contains only the data necessary for us to verify the user's identity. The full list of retrieved data can be found in Freja eID Privacy Policy.

Step 3

In the final step, the user needs to register their face by doing a security face scan (to check if they are a real person and not a photo of somebody else) and take a selfie photo which will be the image they will see in the Freja eID app.

About NFC

The technology behind this Freja eID feature is a method of wireless data transfer called NFC (Near Field Communication). This technology detects and then enables phones, tablets, laptops and other devices in close proximity to easily communicate with other NFC-equipped devices, without needing an Internet connection.

An NFC chip installed in biometric passports operates as one part of a wireless link. Once it's activated by another chip (in this case, the one from the mobile device), small amounts of data between the two chips can be transferred when held a few centimeters from each other.

However, the user must first identify themselves to the NFC chip from the passport in order to get access to its data. That is why the user first needs to scan the machine-readable zone from the passport with the OCR functionality or enter the data manually (Step 1 described above). The scanned/entered data is compared with the same data from the passport and if they match, all other user information, as well as the high-resolution image, can be retrieved from the passport.

Improved Security on Personal eID

Users who have added a document to Freja eID have access to a personal eID inside the app that they can use to identify themselves in various ways. Up until now, the screen that users can identify themselves with didn't have liveness as a security feature. Liveness is a security measure that helps prevent fraudsters from taking advantage of biometric security measures.

With the latest update, we have added visual and audio effects on the personal eID screen so that when somebody is looking at it or interacts with it, it will be apparent that the screen is authentic.

ANY QUESTIONS?

If you have any questions regarding this release, please get in touch with your contact at Verisec or send an email to partnersupport@frejaeid.com. You can also find more useful information about Freja eID on our website www.frejaeid.com.