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WORKING DOCUMENT

From:	European Central Bank
To:	Working Party on Financial Services and the Banking Union (Digital Euro Package) Financial Services Attachés

Subject:	Digital euro WP on 15 Nov. 2023 - ECB slides - Onboarding repository – purpose and necessary data
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Onboarding repository – purpose and necessary data

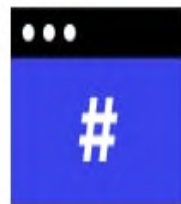
Onboarding repository – user identifier

- User identifier:** Unique data element for the identification and differentiation of end users (hashed by the PSP from an external identifier – e.g. from a passport number + additional data). It enables a PSP to identify if end user has already opened a digital euro account (with any other PSP) and, in case of multiple accounts, the distribution of holding limits between accounts of the same end user.

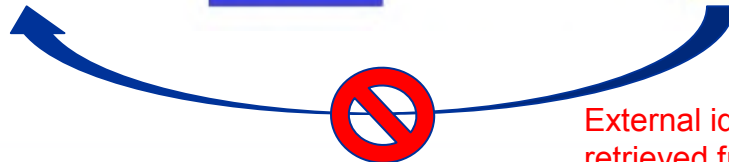
Simplified procedure



Hash function



Hashed user identifier

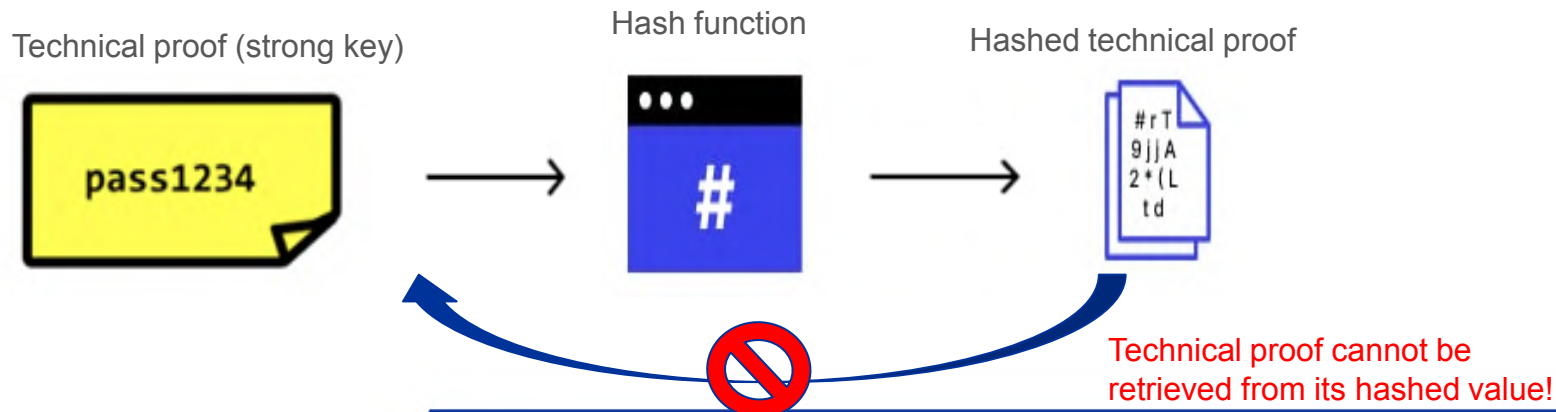


External identifier value cannot be retrieved from its hashed value!

Onboarding repository – hashed technical proof

Hashed technical proof: The PSP generates a unique technical proof (a basis to derive either one-time or static settlement ledger identifiers) for each account.

The hashed version of it is stored in the onboarding repository as a second factor for the identification of an end user in an emergency portability scenario (to be eligible for porting an end user needs to present matching hashed user identifier and hashed technical proof to a new PSP)



Repository record example (in one account per individual scenario)

- Individual user's data stored in the onboarding repository:

User identifier	Hashed technical proof	User type	PSP identifier
8743b52063cd	d9892622325959afbe	Individual	EU478821

- Business user's data stored in the onboarding repository:

User identifier	Hashed technical proof	User type	PSP identifier
17a91720c31d	a14731bb217a541e3e	Business	EU478821
17a91720c31d	38aaa311c294a4313a	Business	EU478821
17a91720c31d	811c1b44223aa1e714	Business	EU245791

Repository record example (in multiple accounts per individual scenario)

Individual user with four accounts (individual and joint) at three PSPs...

User identifier	Hashed technical proof	User type	<u>Holding limit</u>	PSP identifier
17a91720c31d	7a3119bd2e32cc883a	Individual	1000	EU478821
17a91720c31d	38aaa311c294a4313a	Individual	400	EU245791
17a91720c31d	a14731bb217a541e3e	Individual	700	EU478821
17a91720c31d	41a55b3ac19c1d1221	Individual	900	EU372441

...and with two more individual users of a joint account (a14731bb217a541e3e)

User identifier	Hashed technical proof	User type	<u>Holding limit</u>	PSP identifier
4b193a80a322	a14731bb217a541e3e	Individual	2000	EU478821
91c418aa12ad	a14731bb217a541e3e	Individual	400	EU478821