

Concordium Anonymity Revokers

Every Concordium account can be traced back to a *real life* individual or organization. This is a key, and unique feature of the Concordium blockchain.

Every Concordium account requires an **Identity Object** that has been issued by a known third party – an **ID Issuer** after a trusted organization has performed an **ID Verification**.

An Identity Object is a summary containing information about the Account Holder structured in an ID schema. A number of ID schema have been defined to manage the various kinds of information applicable to different types of Accounts. Personal accounts include name, date of birth, ID card number. Business accounts include Company Registration Number, official address and so on.

Additional schema will be added in the future to cater for other forms of Identity– schema can exist for physical devices, where

Anonymity Revokers

Anonymity Revokers exist to counter one of the most troublesome issues of blockchains today. The fact that bad actors believe they can act with impunity and no fear of prosecution. The very presence of bad actors in the same system dissuades corporate and professional users due to the immense reputational risk by association.

As described above, every account can be identified back to a *real life* identity, but we also need to respect the privacy of the user and rely on formal legal process to lift the anonymity.

Anonymity Revokers are the interface between Authorities and users of the Concordium Blockchain. They will receive Court Orders in their jurisdiction, which will demand the Anonymity Revoker to provide all information that they know about a certain user. This process will vary dependent on the country – and is highly formalized, since it is the output of a legal process. The Anonymity Revoker will provide the decrypted User Identifier which also contains details of the Identity Issuer who issued the Concordium Identity to the user. By way of a second Court Order, served on the Identity Issuer, the identity of the user, can be revealed. It is the requester who is required to serve the two court orders on the Anonymity Revoker and the Identity Issuer.

Anonymity Revokers will develop a cooperative but procedurally correct relationship with the authorities. This will ensure that the authorities receive all the information that is accessible, and that it is also executed in a correct, timely and complete manner. They will also ensure that requests without the relevant legal backing are rejected, and the Privacy of the user preserved.

Anonymity Revocation forms part of Testnet 4 delivery, including tools – ensuring that Revokers will be able to fulfil their tasks in production at the date of Mainnet Launch.

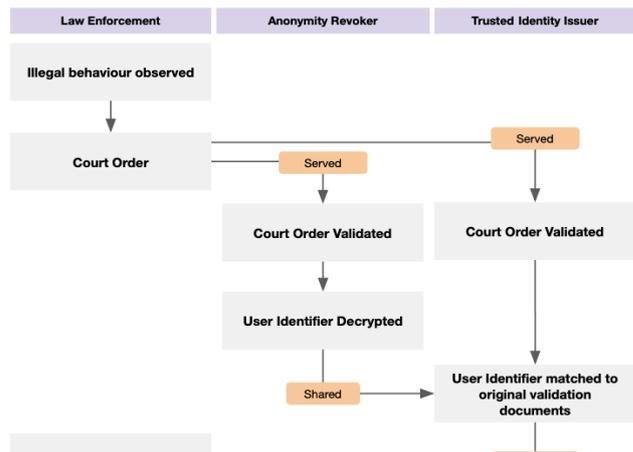
identity is defined by a hardware ID such as a serial number or MAC address.

These schema are published by the Foundation and coordinated through normal Concordium Governance.

Information supporting an ID verification, used prior to issuance of the Identity object, is held alone by the **ID Verifier** (See separate document) in his own off chain records, but it could be that the Authorities need this.

To support this, every account is also associated with an **Anonymity Revoker**. Their task is to receive and verify requests, use cryptographic tools that reveal the organisation that was behind the ID issuance, and direct the authorities correctly.

This process ensure the anonymity of the Account holder, but permit legally authorised process to executed.



ID Revocation Process

Initially, a single Anonymity Revoker will be sufficient to manage all incoming requests, globally. If, contrary to experiences in other similar networks, the number of requests surpass what can be handled by a single Anonymity Revoker, additional Revokers will be enlisted. The first Concordium Anonymity Revoker is M Law from Switzerland, the location of the Foundation. They have been approved to perform this work by the Foundation, as a law firm they are able to work correctly with the authorities. The cost of the Anonymity Revokers will be covered by the Foundation.

We anticipate that ID Issuers and Verifiers will be able to select from a range of ID Revokers. These will be audited and approved by the Foundation.

It is important that the revocation process is dependable and visible, and thus contact details to Revokers will be visible on a publicly facing website