

IoT device

P2ABC IOT TOOLKIT

IOT SOFTWARE SMART CARD

P2ABC DELEGATING USER - API

Delegates to the P2ABC Engine User Service

P2ABC DELEGATING VERIFIER - API

Delegates to the P2ABC Engine Verifier Service.

[Private] Secure Communication Interface to
Delegation Server

Example P2ABC User Process

Communicates with a Verifier Service. When it receives a P2ABC XML Message, delegates on the P2ABCE User Service, and then waits for the XML response message, which will be sent as response to the Verifier.

Generic Process

Another process that
accesses the Internet

[External] Communication Interface

P2ABC ENGINE DELEGATION SERVER

P2ABC ENGINE

User
Service

Verifier
Service

...

APDU
Dialogue

Delegation
messages

P2ABC Issuance
XML Messages

P2ABC Proving
XML Messages

Other Internet
Connections

ISSUER

External Service that issues
credentials to the users
(the IoT devices in this
case).

VERIFIER

External Service that
requires users (IoT devices)
to present proofs through
their P2ABC credentials to
access the service.