

# 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.