Local Connectivity and Cellular Network working Hand in Hand

Submitted To: OMA TP CPNS BoF

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Co-Sign:

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Introduction

- Currently the CPNS BoF is in a phase of
  - discussing use cases
  - studying requirements
  - investigating interactions with other OMA enablers

- At the end of these endeavours the BoF will define the scope of future CPNS activities within OMA for presentation to the Technical Plenary.

- These slides are aiming at contributing to the use case discussion.

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Starting Point

- It is expected that converged WPANs with a mobile phone serving as a central hub will become more important in future.

- We believe a common platform for authentication and attestation purposes would be beneficial in this context and that the mobile phone (as a central hub) is ideally suited to deliver this platform.

- A new use case for the “Mobile Phone to Access Point” scenario (CPNS Type III) has been identified for the

  attestation of personal information.

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New Use Case for CPNS Type III "Data Transmission in the Shop"

- Attestation operations can be performed locally in a shop (or remotely) by utilizing a mobile phone equipped with WPAN technology.

- Examples of Use Case:

  MNO assisted check if someone who wants to

  1) buy liquor at a shop is old enough to do so

     ("local age verification")

  2) join an online community that is open to girls only is indeed a girl

     ("remote gender verification")

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Key Element

- Properties to be attested needs to be stored in a trusted environment.

- This Use Case can be realized by utilizing
  - a trusted mobile device,
  - a trusted smart card in a mobile phone.

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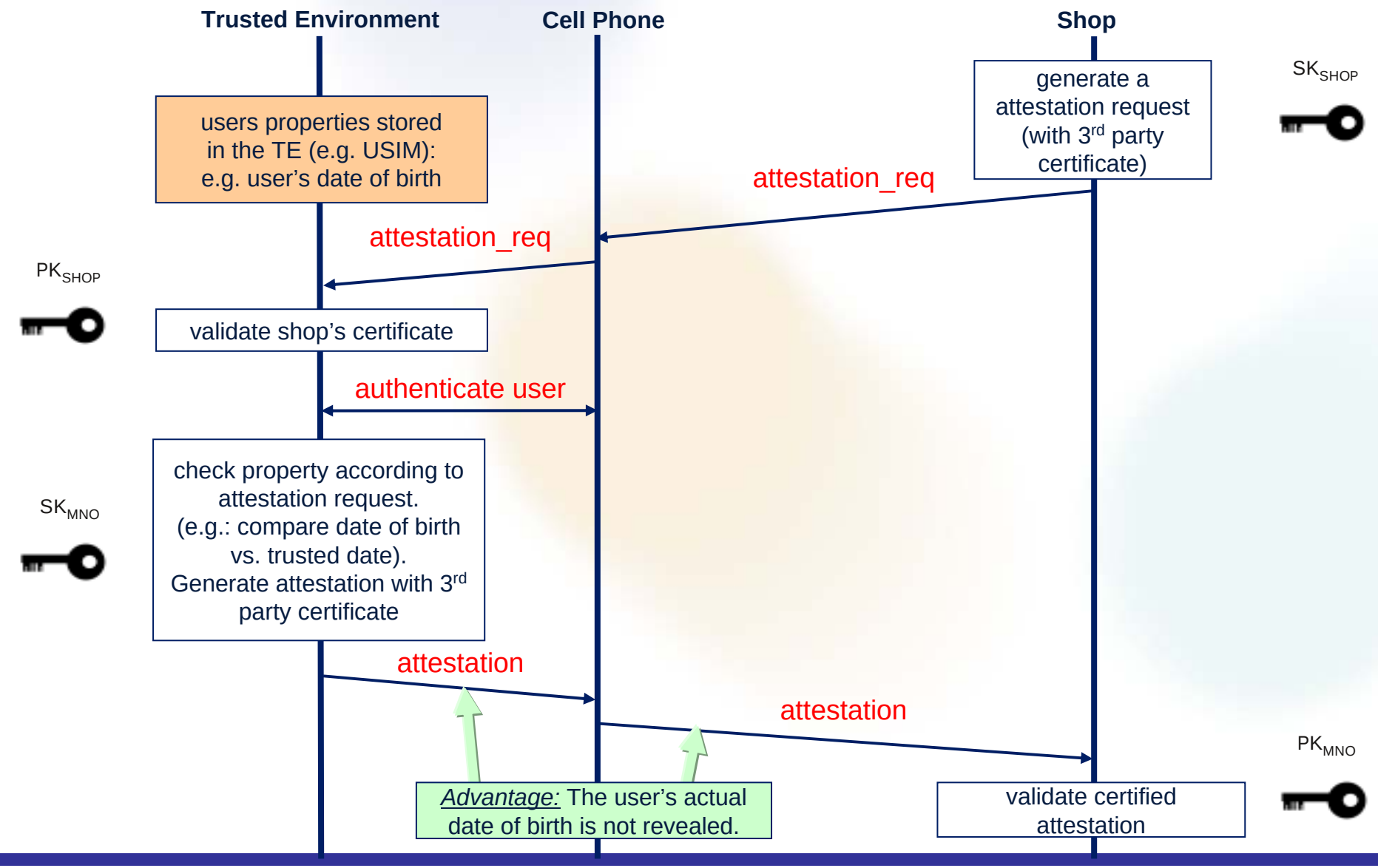
Example Message Flow



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Benefits

- The user has control over information he gives away.

- The mobile network operators may chose to charge his customers
  - for using the attestation service in general,
  - for each attestation operation performed successfully.

- The attestation could be performed against machines or remotly via network

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