Eidgenössisches Justiz- und Polizeidepartement EJPD Département fédéral de justice et police DFJP

Bundesamt für Justiz BJ Office fédéral de la justice OFJ

Technical Advisory Circle

Meeting II

16.10.2023

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Create maximum value

- Shared thoughts shared reasoning
- Use «your» tongue
- Also mention basic assumptions
- No need to defend but challenge!

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Role of Federal Representants

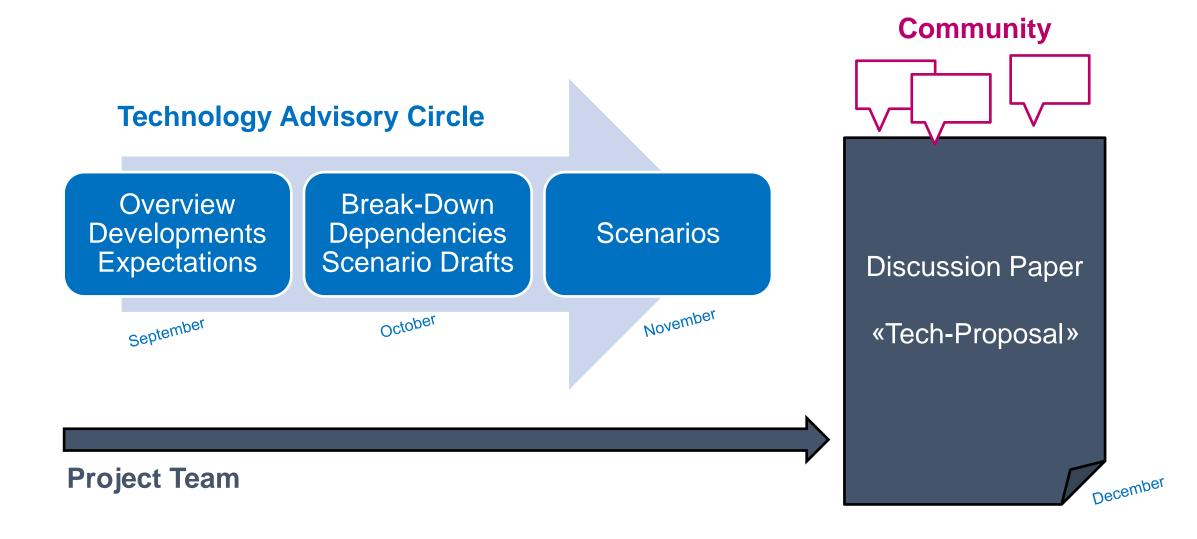
«We ask and listen»

Disclaimer

- Protocol without attributions
- Session is recorded to create the protocol, not for public distribution
- Name credits mentioned as «Participant of Meeting» & «Part of TAC»

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What are we doing?





How does the Techical Advisory Circle work?

- Sharing current knowledge, oppinions, expectations
- Collecting valuable sources (pointers to other relevant papers, PoCs, activities...)
- Outlining potential contributions «of Switzerland» to an SSI-world
- Get stuff done: Having two scenarios defined at the third meeting

Input creation for the Discussion Paper «Tech-Proposal»

Will the TAC continue after the announced meetings? Most probably.

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Inputs from 37th Internet Identity Week (IIW)



Discussion Paper «Tech-Proposal»: Structure

Discussion Paper – Structure:

- 0 References/Sources
- 1 Purpose of the document
- 2 Background
- 3 Design Principles & Criteria
- 4 Lessons learned
- 5 Scenarios
- 6 Public discussion of the "how to"

Structure on GitHub: Discussion paper content

collection · e-id-admin/open-source-community ·

<u>Discussion #25 (github.com)</u>

References/Source-Collection on GitHub:

https://github.com/e-id-admin/open-source-community/discussions/25#discussioncomment-7292021

- A Working Group of the E-ID Team is in charge of writing
- Inputs from TAC and Dev-Team E-ID is taken into account
- Goal is to have a paper which allows a public consultation regarding the technology decision and the potential compromises it brings regarding the fulfilment of requirements.

Discussion Paper «Tech-Proposal»: Planned next steps

- Third TAC meeting: November 9, 2023
- Public discussion paper: December 1, 2023
- Informal public consultation process until end December 2023
- Analysis of feedbacks
- Decision by the confederation beginning 2024



Requirements: The principles as in the six motions and proposed law (Gesetzesvorentwurf)

Privacy by Design

 "A holder can present a verifiable credential to a verifier without the issuer being informed."

Data Minimization

 "A holder can define which credential, which parts of a credentials (selective disclosure) or which derived information of a credential shall be transmitted."

Decentral Storage of eID

- The credential is sent from the issuer to the holder and from there presented to verifiers.
- The choice of the technical means of storage is up to the holder.
- No credential information resides in the base registry except revocation information.

Governance

The system is run by the Confederation

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Let's talk about «Unlinkability»

Input from the public consultation (Vernehmlassung): «Overidentification», misuse of unnecessarily collected data, risk of tying need to be better addressed

- Misuse linkability? Issuer and verifier collude; different verifiers collude; verifier colludes different use-cases. Countermeasures?
- On what data can correlations be made?
 - Attribute value/content (e.g. Social security number)
 - Hashes (SD-JWT)
 - Public keys (Key binding verification)
 - Revocation (StatusList Index)
 - Context-Data (Browser fingerprint ...)
- Mitigation possibilities for the user?
- Unlinkability as a risk for the verifier? (Hello Proxy!?)

Criteria cluster(s)

Privacy preservation

- Resilience
- Unlinkability

Security

- Protocol security
- Cryptographic primitives

Ease of Use

- User centered
- Understanding

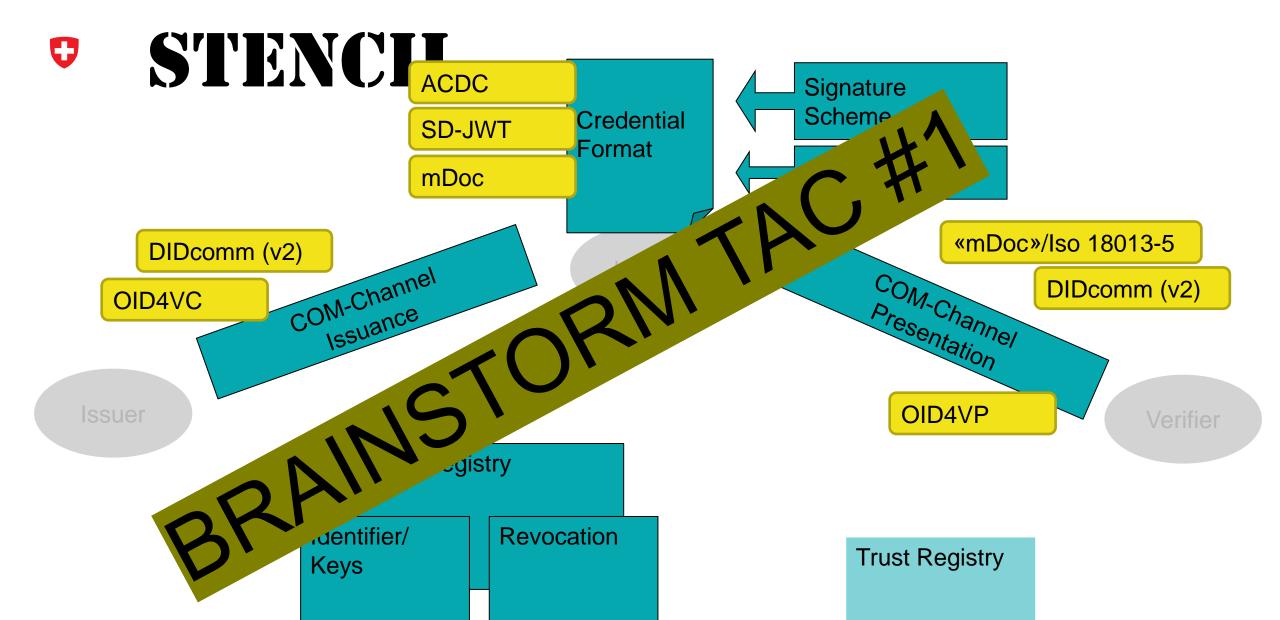
Readiness for the future

- Crypto agility
- Modularity

Interoperability & Standardization

Maturity

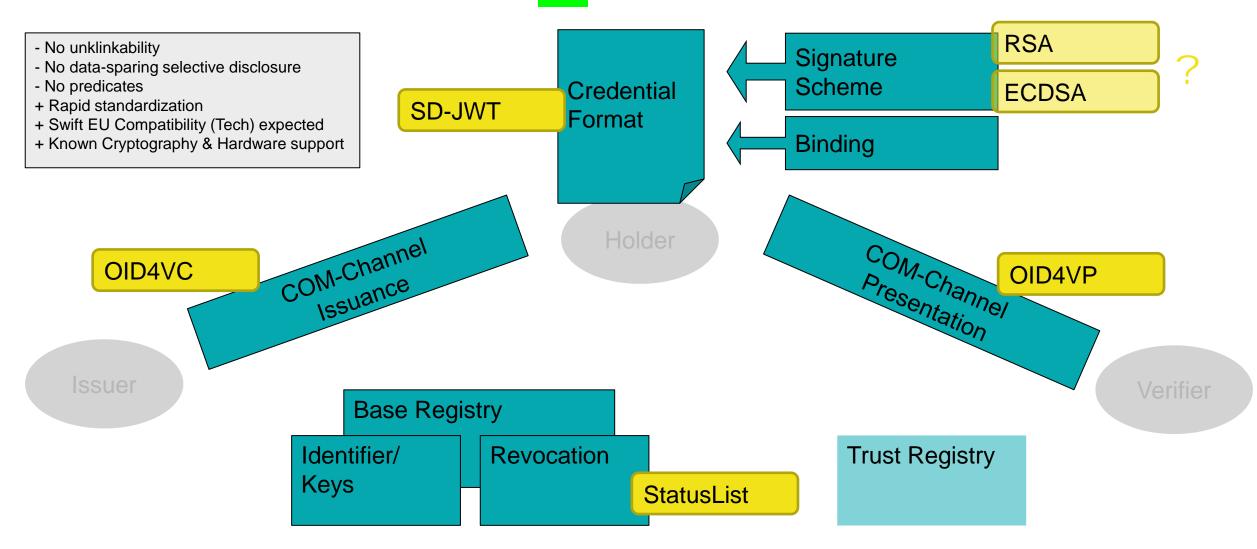
Operability & Integration





SCENARIO A

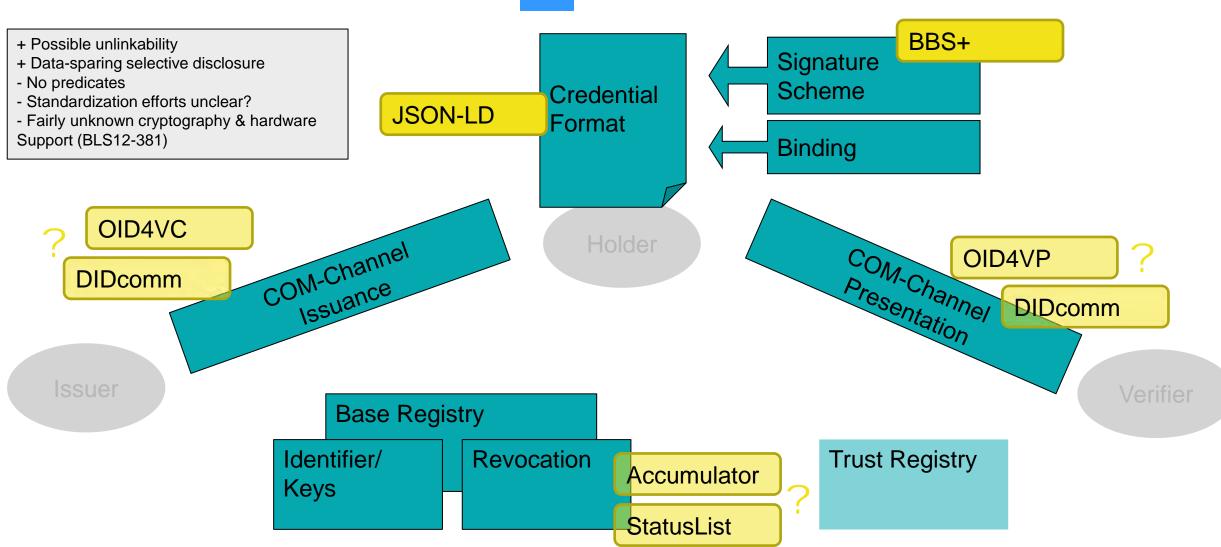
"Direct interoperability with the EU"



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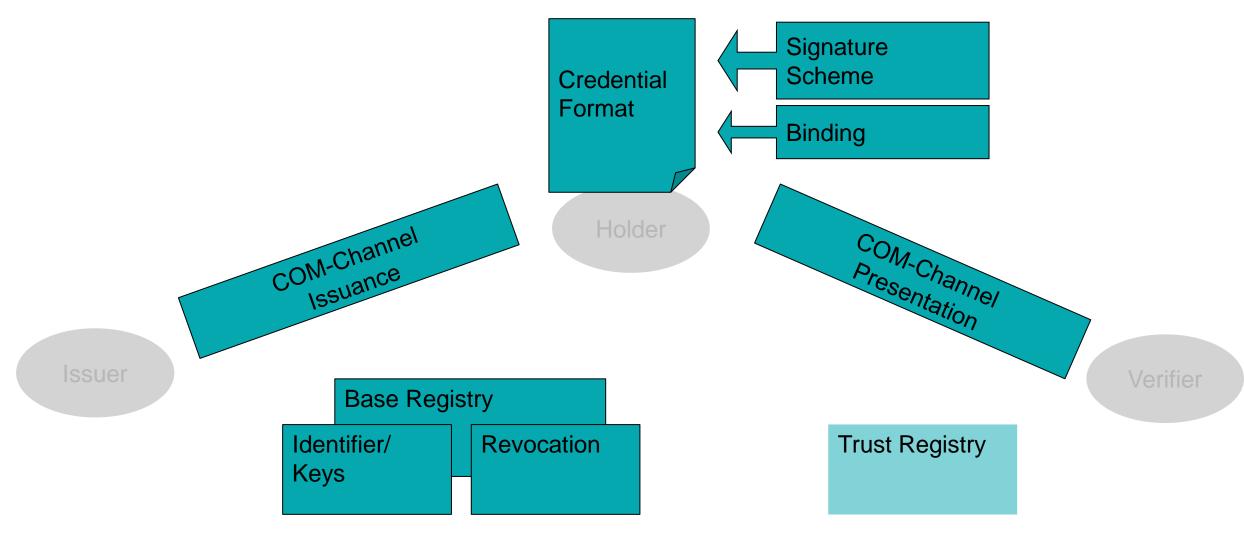
SCENARIO B

"Following a privacy path"



SCENARIO C?

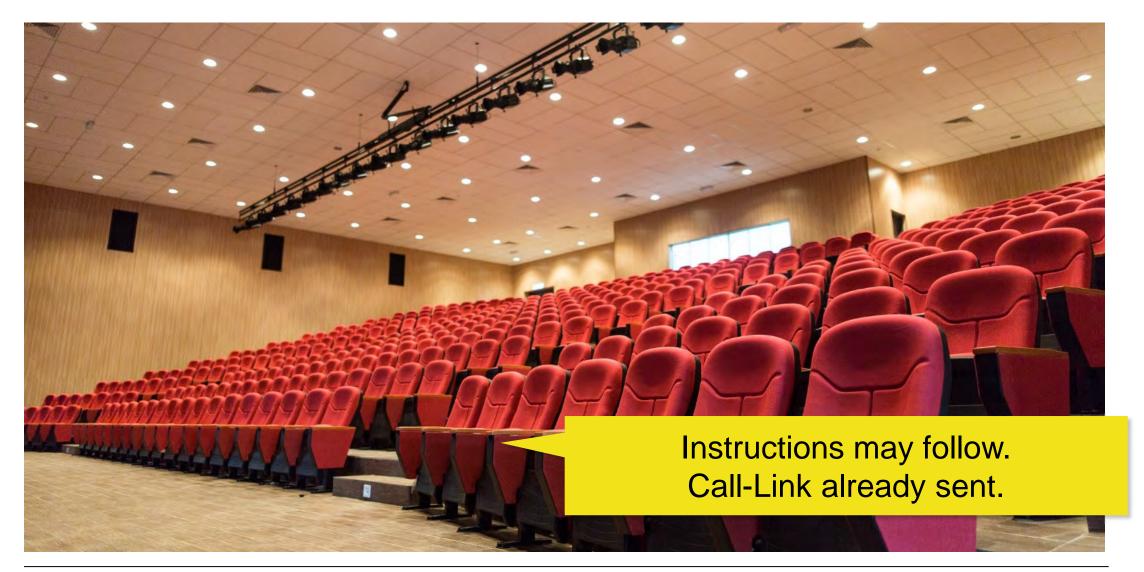




Any other inputs?

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Next TAC: Thursday, November 9, 2023; 15:00 – 17:00





Announcment: Hybride Participation Meeting: Friday, December 1, 2023 approx. 9 – 17 h

