



ESSIF status

DIF-workgroep

Wednesday Dec 09, 2020

Daniel Du Seuil – Carlos Pastor (ESSIF-convenors)

Agenda

- 1 Published reference material and specifications
- 2 Status technical work
- 3 Preview use case governance
- 4 ESSIF stakeholder meeting and workshop
- 5 Draft work plan 2021

Published material/specification ESSIF v2 on EBSI community

<https://ec.europa.eu/cefdigital/wiki/display/EBSICOMMUNITY/EBSI+User+Community++public+welcome>

- ESSIF v2: Business scenarios and capabilities
- ESSIF v2: Reference architecture
 - Data modelling
 - Core components
 - Reference models
- (Technical specifications - API)
- (legal assessment)
- (use case governance)
- (Policy – transition assessment)

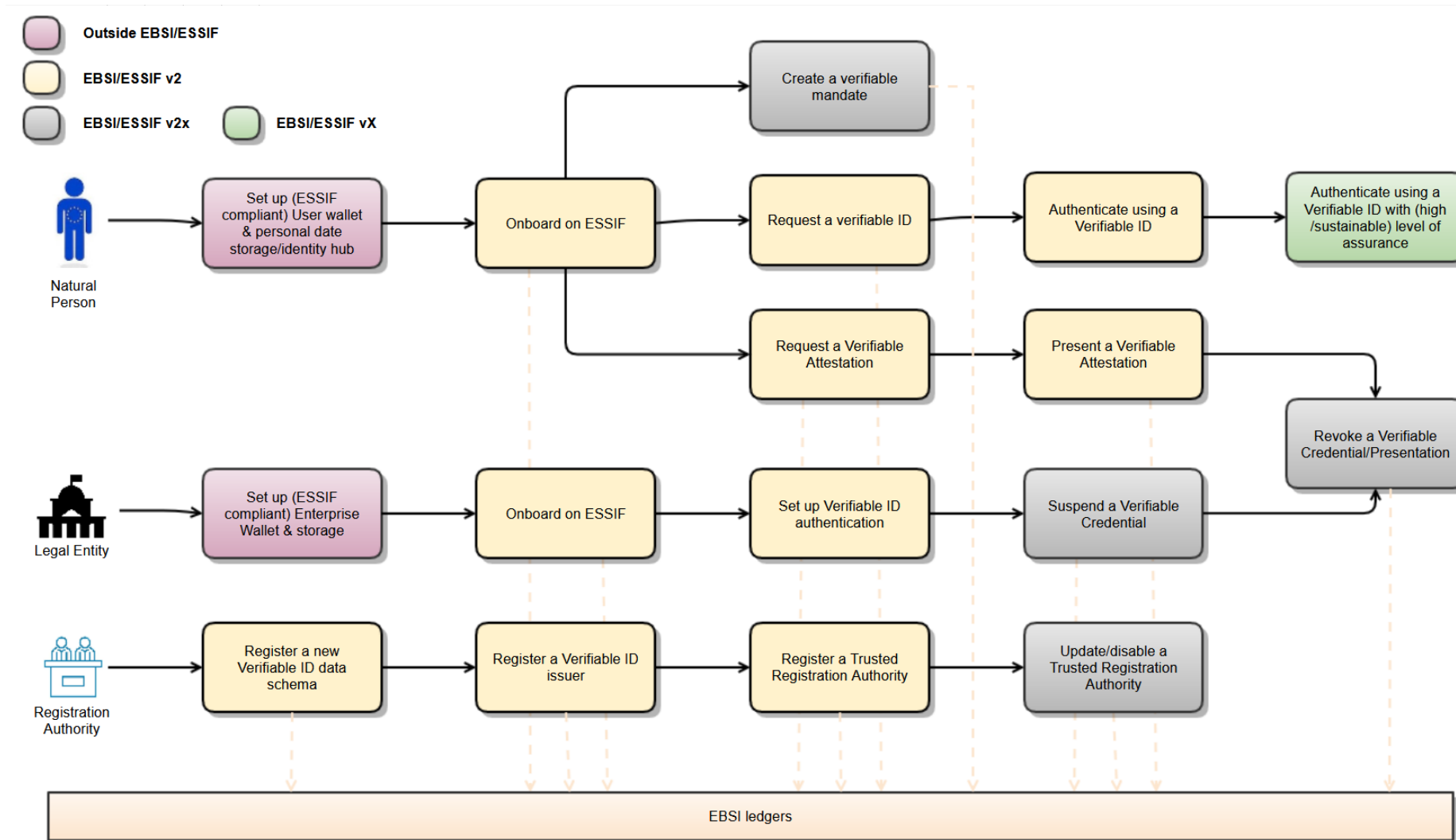
- 1.3.0. Introduction and position of this deliverable (architecture artefacts) ESSIFv2
- 1.3.1. High-level diagram of key "meta-components" ESSIFv2
- 1.3.2. Data modelling ESSIF v2
 - 1.3.2.1. Nodes & Ledgers ESSIF v2
 - 1.3.2.2. Verifiable Credentials ESSIF v2
 - 1.3.2.3. Verifiable Presentations ESSIF v2
 - 1.3.2.4. Trusted Registries ESSIF v2
 - 1.3.2.5. Trusted Schemas Registry ESSIF v2
- 1.3.3. Core component ESSIF v2
 - 1.3.3.1. Nodes & Ledgers ESSIFv2
 - 1.3.3.2. Trusted Registries (Components) (TRA/TIR/TDSR) ESSIFv2
 - 1.3.3.3. Trusted Registries (Flows) (TRA/TIR/TDSR) ESSIFv2
- 1.3.4. ESSIF reference models ESSIF v2
 - 1.3.4.1. Reference Model for User Wallets ESSIF v2
 - 1.3.4.2. Reference Model for Enterprise Wallets ESSIF v2
 - 1.3.4.3. Interaction flows ESSIF v2
- ESSIFv2: Identified and known implementation boundaries and limitations
- ESSIF v2: Identified possible future extensions

Status technical work



ESSIF builds on EBSI Capabilities

Clarify which supporting capabilities EBSI 2.0 and 2.x need to put in place to support ESSIF



ESSIF builds on EBSI Capabilities

Clarify which supporting capabilities ESBSI 2.0 and 2.x need to put in place to support ESSIF


European Self-Sovereign Identity. Features available in EBSI v2.0

	 Natural Person	 Legal Entity	 ESSIF Supporting Trusted Registries (Incl. VCs)
Onboard on ESSIF	✓	✓	
Set up Verifiable ID Authentication		✓	
Authenticate using Verifiable ID	✓		
Request issuance of Verifiable ID	✓		
Request Verifiable Attestation	✓		
Present Verifiable Attestation	✓		
Register a Verifiable ID Issue			✓
Register a Trusted Registration Authority			✓
<u>Register a Verifiable ID Data Schema in TSR</u>			✓

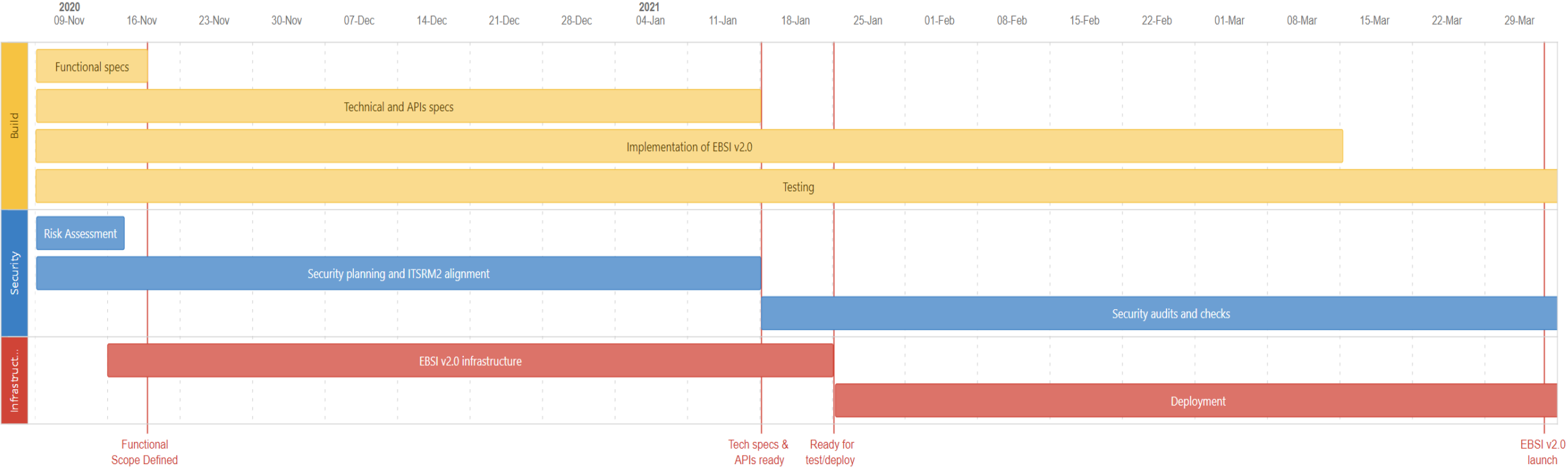
DIPLOMA UC instantiates ESSIF with EBSI Capabilities

Clarify which supporting capabilities EBSI 2.0 (and 2.x) need to put in place to support ESSIF within the Diploma UC

Diploma Management. Features available in EBSI v2.0

	 Natural Person	 Education <u>Organisation</u>	 Third Party	 Accreditation <u>Organisation</u>
Onboard	✓	✓	✓	
Request a credential	✓	✓		
Assign a new diploma VC to a Legal Entity		✓		✓
Register an Educational Organization		✓		✓
Register a new diploma VC		✓		✓
Request to be accredited to issue a diploma		✓		✓
Share credential(s)	✓		✓	
Revoke the share of credential	✓		✓	
Register a QAA in the TAR				✓
Request to be added to the TAR				✓

EBSI v2.0 - as ESSIF supporting infrastructure - Roadmap

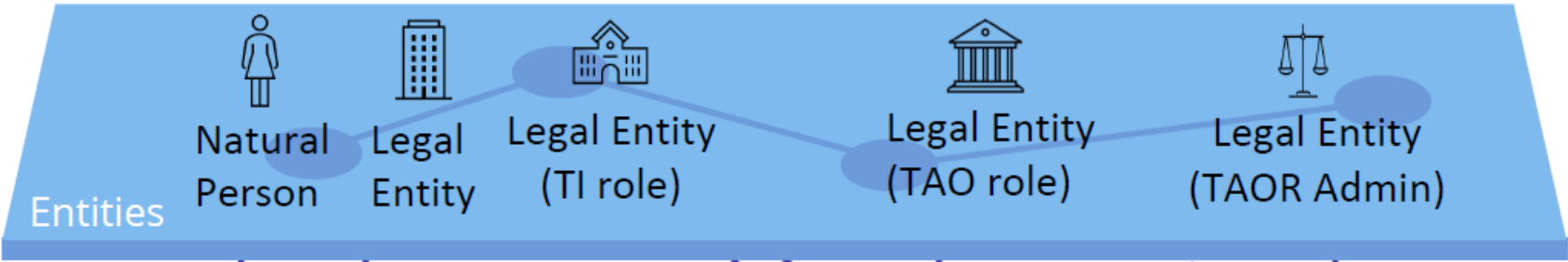


Use case governance

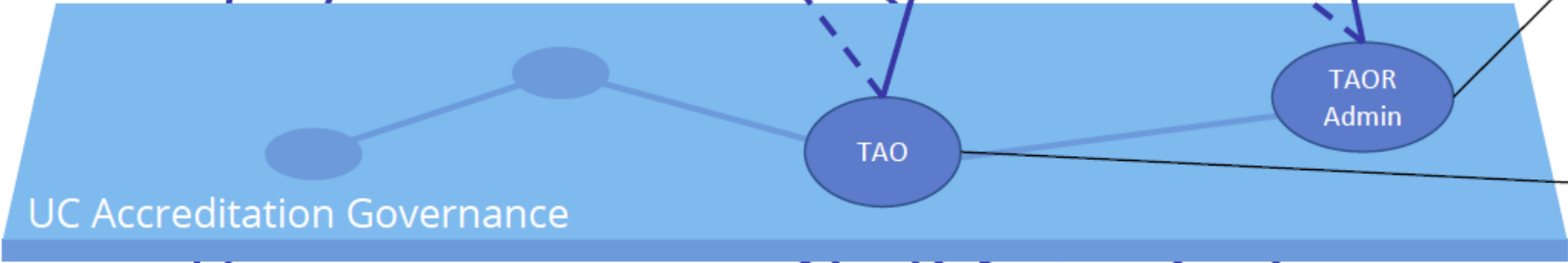


Generic

Entities: Natural Persons and Legal Entity



Domain Accreditation Governance. Each domain may have a different legal meaning for accreditation processes, bodies, etc.

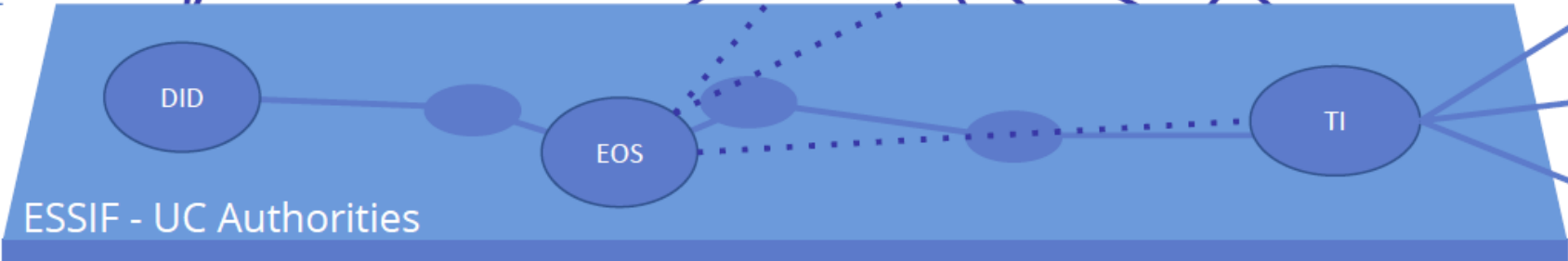


TAOR Admin: offline check to verify Legal Entity entitlement to become TAO

TAO: offline check to verify Legal Entity entitlement to become TI

UC Domain

V Credential Authoritative source (Domain UC' legal entities can play different roles)



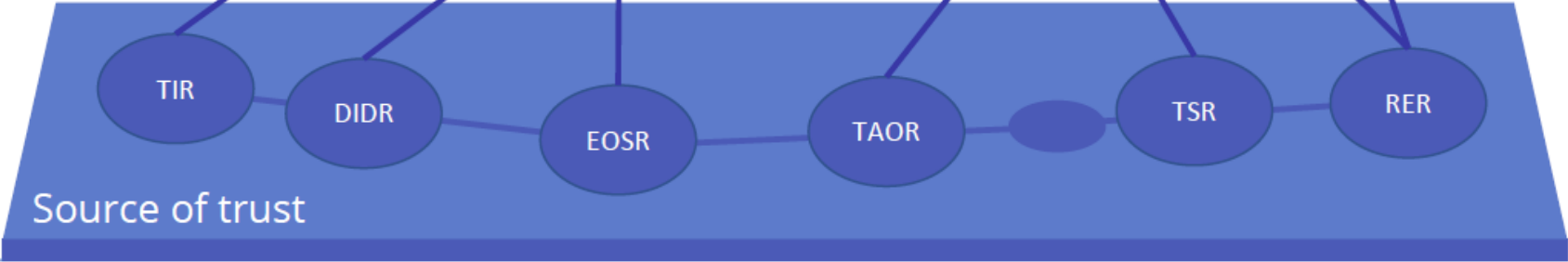
High LoA

Substantial LoA

Low LoA

ESSIF Domain

Ledger



Source of trust

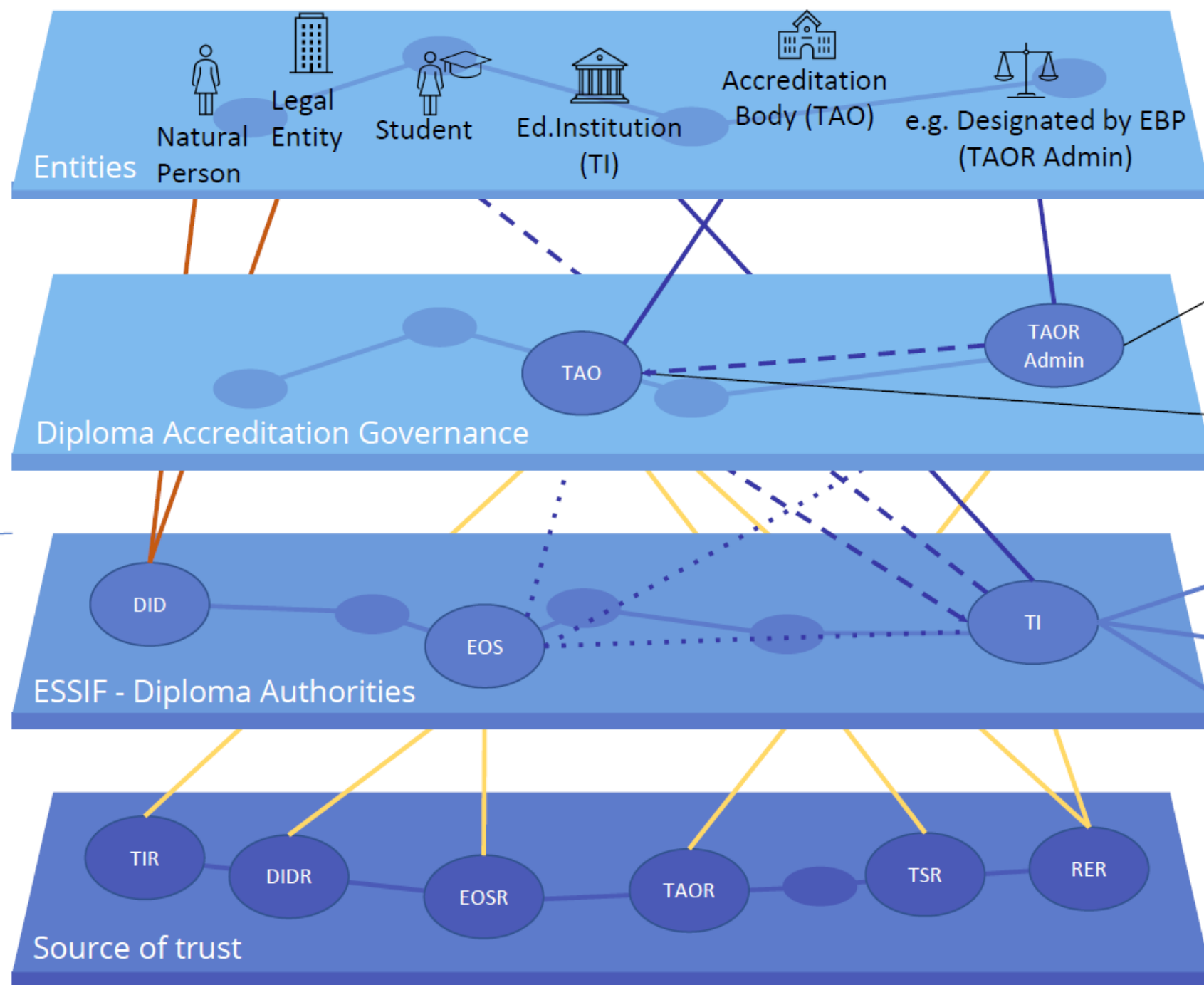
Diploma UC

Entities: Natural Persons and Legal Entity

Domain Accreditation Governance.
Each domain may have a different legal meaning for accreditation processes, bodies, etc.

V Credential Authoritative source
(Domain UC' legal entities can play different roles)

Ledger



TAOR offline check to verify Legal Entity entitlement to become TAO

MS' TAO will do an offline check to verify Educational Institution entitlement to become TI

- High LoA (eID)
- Substantial LoA (MyAcademicID)
- Low LoA (other means)

- "Can act as"
- "Is"
- - - - - "Accredits"
- "Owns"
- "Responsible"

ESSIF stakeholder meeting and workshop (TBC)

<https://ec.europa.eu/cefdigital/wiki/display/EBSICOMMUNITY/EBSI+User+Community+-+public+welcome>

- Interaction with early adopters in public sector and related research projects
- ESSIF stakeholder meeting (February?)
- Wallet integration workshop (February?)



Draft work plan 2021

- EBSI actions in Digital Europe Program
- Core Services
 - EBSI Core infrastructure
 - EBP Priority use cases
 - EBP Regulatory sandbox
- Deployment of services
 - Support of implementation EBSI
 - EBSI exploitation and cooperation with industry
 - EBSI innovation & integration
 - Support regulatory sandbox
- Via procurement/framework contracts/grants.

