

Output

1. DLT evaluation

The general suitability evaluation of DLT for this use case states: DLT suitable

More subjective fitting criteria indicate for DLT: Likely use case

2. DLT elicitation

After detailed elicitation of requirements, the following recommendations for most appropriate, also viable and least recommended DLT type are:

- Most appropriate: hybrid DLT
- Also viable: public / hybrid DLT
- Not recommended: private DLT

3. DLT design

After re-evaluating the DLT type in the DLT design stage, the tool concludes the following DLT type as best fit: hybrid / private DLT

The following design patterns are recommended for the use case:

- On-/off-chain connection
 - Off-chain signature pattern
 - Content addressable storage pattern
 - Delegated computation pattern
- Encryption
 - Hash on-chain and raw data in external storage (database or decentralized content addressable storage)



Application layer

Application monitoring & logging

Logging tool

User interface

Web app

User management

Central IAM component

Middleware layer

Backend component management

Own full DLT node

3rd party DLT node service

Key management / wallets

3rd party key management service

Business logic model

Number of system participants
Small (10-1.000)

Key use case features
Transparency, Security,
Compliance, Exchange of data
or assets, Privacy

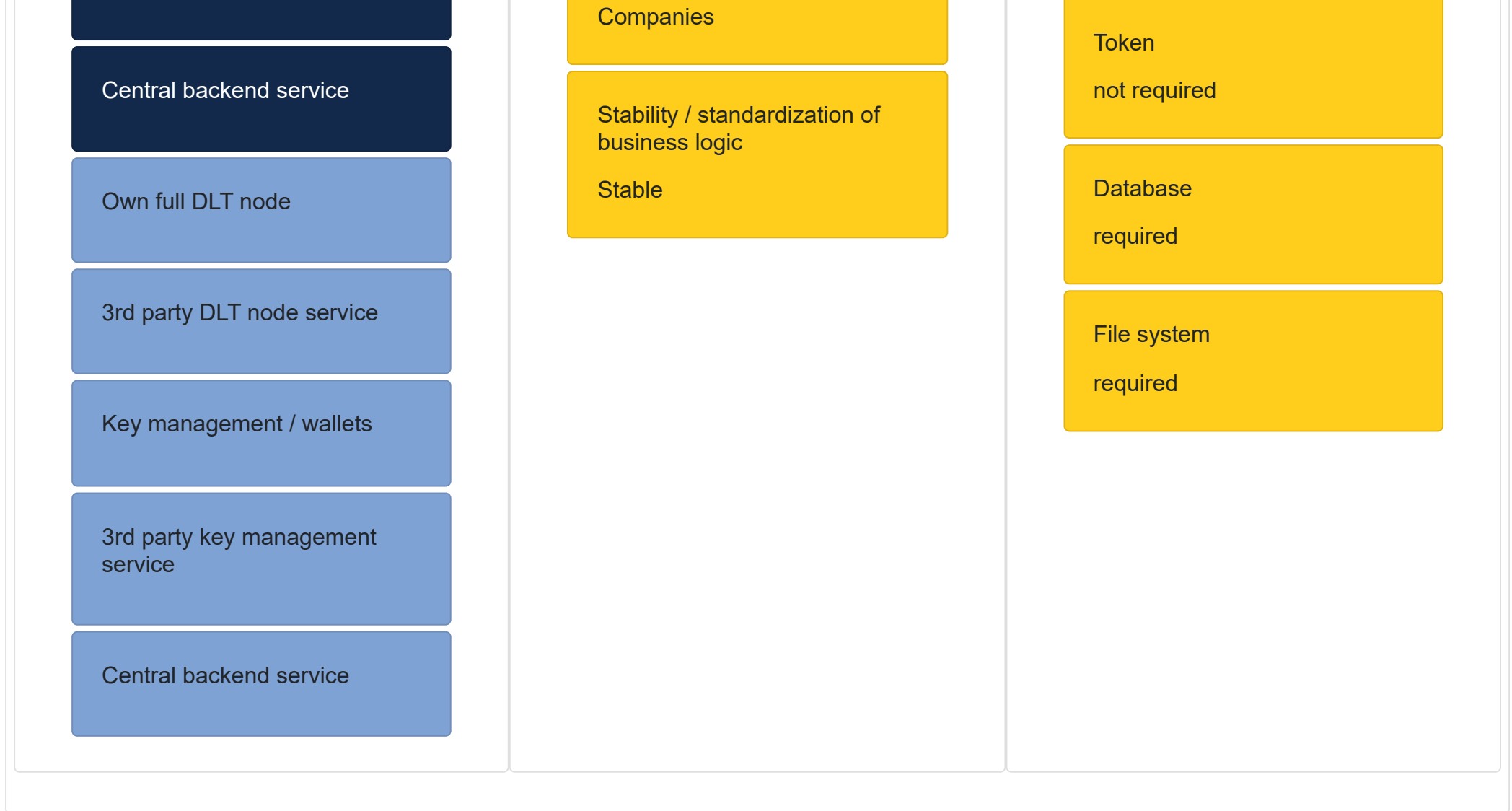
Type of users

Data model

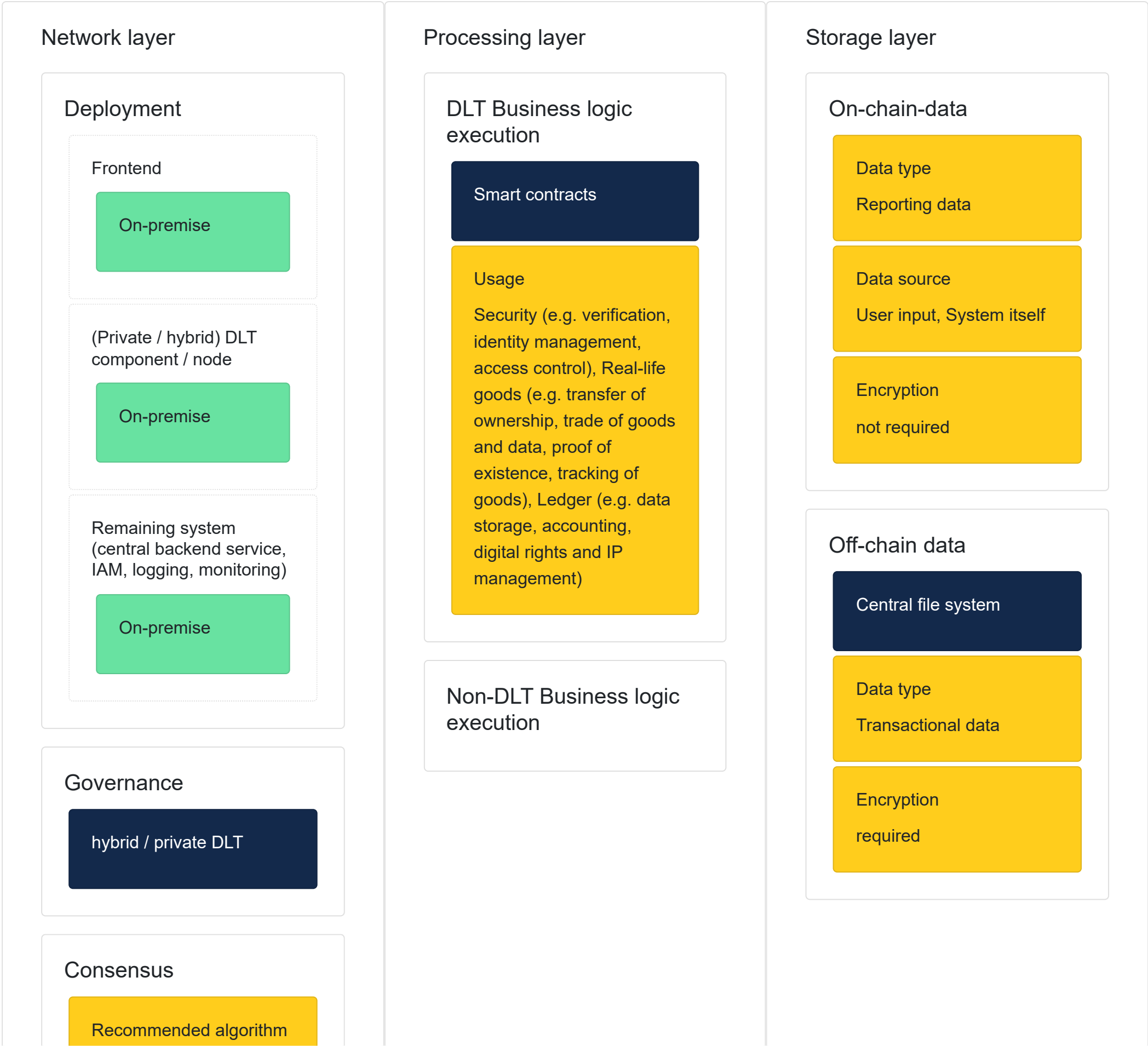
Data volume (worst case)
10.000 GB/month

Sensitive / critical data
exists

Encryption
required



Infrastructure layer



PoA

Recommended algorithm
PBFT

Recommended algorithm
IBFT

Recommended algorithm
Raft

Scalability

Consistency
Strict consistency

Throughput
tps > 1k important