

Fill in this worksheet for new or existing software systems. This will help you get a better understanding of what your architectural needs are. When filling this in for a new project, start simple: a) start with a monolith and split tasks off at a later stage, b) only add a cache when a bottleneck appears, c) start with a serverless approach, d) keep as many things stateless as possible, e) use one communication strategy initially (such as REST).

COSI Worksheet

Version: 1



COMMUNICATION

- How do modules/services communicate?
- What kinds of interfaces are needed (i.e. REST, RPC, Web sockets, GraphQL)?

ORGANIZATION

- How are modules/services organized?
- Which architectural patterns are applicable?

SECURITY

- What protection measures are taken?
- Who needs access to what?

PRIVACY

- Where is data stored?
- How is data used?
- How long is data stored?

STORAGE

- What type of information does the project deal with?
- What types of databases and/or object stores are needed?

IMPLEMENTATION

- What are the requirements for implementation?
- How and where will the system run (in the cloud, on premise, etc.)?

PROCESSES

- Feature development
- Testing
- DevOps

CROSS-CUTTING CONCERNS