

Directorate General:

Directorate:

Unit:

Service:

Technical Architecture Document

Project Name

Short description

Purpose:

The goal of this document is to describe the architecture necessary and sufficient for the execution of a project.

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1. DESCRIPTION OF ARCHITECTURE

1.1. Changelog/Version

Describe changes in this version of the document: runtimes to be added/updated/decommissioned, libraries updates, integration needs etc.

Type of change (choose one): New Project/ Evolution / Migration from obsolete technologies

1.2. Basic information

Intranet	Y/N
DMZ	Y/N
VLAN dedicated	Y/N
Internet access through the EPNet	Y/N
Other	(details)/N

1.3. Network Architecture Schema

1.4. Software Architecture

List the technologies/libraries used:

Client User interface	(technologies/libraries)/N
Server Presentation layer	(technologies/libraries)/N
Server Business layer	(technologies/libraries)/N
Server Persistence Layer	(technologies/libraries)/N
Synchronous Remoting (WS, RMI, etc.)	(technologies/libraries)/N
Asynchronous Remoting (JMS, etc.)	(technologies/libraries)/N
XML Handling	(technologies/libraries)/N
Cache	(technologies/libraries)/N
Security	(technologies/libraries)/N
Other	(technologies/libraries)/N

1.5. Required Standard Runtimes

List of required operational environment and associated 8 characters Code:

Existing (Y/N)	Standard Runtime ¹	Code (8 char)	Environment(s) ² DEV, PPO, PROD
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¹ Runtime: for example: Tomcat, ActiveMQ Artemis, Elastic Search etc.

² Environment (DEV, PPO, PROD etc.)

N			
N			
N			

Please note that one separate RHR document will be needed for each new runtime.

1.6. Non-standard server-side software list

Please note that these non-standard software are most likely not to be accepted quickly, though may trigger special attention and dedicated handling. Fill in this chapter as accurately as possible.

Non-Standard Server-side software	Explanation of the need

1.7. Commercial software list

Please note that these software need to purchase a license at the project level.

Commercial software	Explanation of the need

1.8. Integration

1.8.1. Applications integration schema

1.8.2. Application integration criticality

Reference ³	Protocol	Synchronicity	Frequency ⁴	Business Criticality
		Asynchronous/Synchronous		High/Low
		Asynchronous/Synchronous		High/Low
		Asynchronous/Synchronous		High/Low

Optionally detail criticality:

³ An identifier helping to point this relation in the Application Integration Schema

⁴ Frequency of the interaction (e.g. once every night for a batch, thousands of calls per minute if directly related to end user input or interaction)

1.8.3. System**1.8.3.1. List of required system services**

Database	(details)/N
File system (direct access, sharing, FTP, etc.)	(details)/N
Directory (Active Directory, other)	(details)/N
Mails (sending mails from an application)	(details)/N
Other	Y/N (detail below)

1.8.3.2. System services schema (optional)

For clarity (and mostly if you have asked for multiple runtimes), please provide a schematic vision of the interaction between system services and applications.

1.9. Security ⁵**1.9.1. Authentication mechanism****1.9.2. Authorisation mechanism**

⁵ JAAS is the only authorized method inside EP for authentication/authorisation

2. SPECIFIC DEVELOPMENT TOOLS

The **CONCEPT** Unit provides standard tools for the development of applications.

Mention here licence-limited tools you may need:

Oxygen XML	Y/N
Modelling tool UML	Y/N
	Y/N

Non-standard tools and justification:

3. ANNEX - DOCUMENT CONTROL

3.1. Circulation

DG or Company	Role	Name/Initials		RACI ⁶ code
	MOA-Sponsor			A
	MOA-Project Owner			R
	MOE-Project Manager			C
	Key User			I

3.2. Change history

Version number ⁷	Status ⁸	Date	Initials	Summary of changes

3.3. Applicable documents

N°	Document name	Description ⁹
[1]	Project Charter	
[2]		
[3]		
[4]		

3.4. Reference documents

N°	Document name	Description
[1]		
[2]		

3.5. Glossary

Abbreviation	Description
DTA	Technical Architecture document

⁶ R: Responsible, A: Approval, C: Contribution, I: Informed

⁷ [Naming convention: Procedure 'Program & Project naming convention'](#)


⁸ Status: Draft, Final, Approved

⁹ Description: Note, summary, link, etc.

Abbreviation	Description
RHR	Runtime Hosting Request

3.6. Usage conventions

Where a chapter or section is not considered to be applicable, put "**NOT APPLICABLE**". Feel free to insert new sections (chapter, paragraph) as needed.

Click on the Show/Hide  button in the toolbar to display/hide guidance.

3.7. Procedure 'Technical Architecture'

3.7.1. *Sending a Technical Architecture Document (DTA)*

The DTA and/or RHR(s) documents have to be sent to the IT representatives of the DGITEC (CONCEPT Unit- METHODS Department ([PMQcc](#))). For a first DTA validation, the Project Charter (CHP) and the Initial Risk Assessment (IRA) are required and must be sent with the DTA.

3.7.2. *Validation of the DTA*

As soon as the DTA is completely validated then the DTA is sent to OPERATIONS Unit to continue the treatment along with one or multiple Runtime Hosting Requests (RHR).

3.7.3. *CONCEPT support*

During the project, DGITEC can support the team project but on request only.

DGITEC provides relevant information (standard, methods) in the Quality Assurance Manual and the appropriate documents (templates) for the project.

3.7.4. *OPERATIONS support*

OPERATIONS Unit deals with the DTA as soon as it is validated.

OPERATIONS Unit initiates a meeting with the stakeholders of the project in order to organise the technological environments necessary for the project.

For more information see [OPERATIONS Website](#).

4. OTHER ANNEXES
