



Safe and Explainable
Critical Embedded Systems based on AI

PhOT0003 AI Version Tracking

Version 2.0

Documentation Information

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Author	Irune Agirre, Javier Fernández
Modified by	Lorea Belategi
Reviewed by	Irune Agirre
Approved by	Irune Agirre
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1 Review / Modification History

Version	Date	Description Change
V2.0	15/02/2024	Changes Applied as a result of TÜV Review 2024-01-19
V1.0	04/12/2023	First version after complete internal review
V0.1	15/11/2023	First draft

Note: Since Artificial Intelligence - Functional Safety Management (AI-FSM) utilizes templates from both the traditional Functional Safety Management (FSM) and its own templates, this annex distinguishes the AI-FSM templates by color-coding them in orange and the traditional FSM templates in green. Additionally, the folders' names will be enclosed in quotation marks and the files' names created from the templates are written in italics and underlined>. These files' names are preceded by "REF_", which should be changed to reflect the specific safety project reference. The paragraphs/name of the project/Rev./Ref./history table in blue must be replaced with the information for the specific project. The paragraphs written in red are instructions that can be used as a guide, so they must be deleted.

2 Objective

This template defines the traceability between the articles/elements/structures and project versions. This template provides complementary information to be included in "Annex 5: FSM project example" from the *Ph0T0001_Version_Tracking_template.docx* template, where an example of how managing the relationship between the different elements of a project is provided. This template is applied to all generated documents for the development of the AI-FSM to fulfil the IEC 61508 and IEC 62443 (procedures, tables, diagrams, and others).

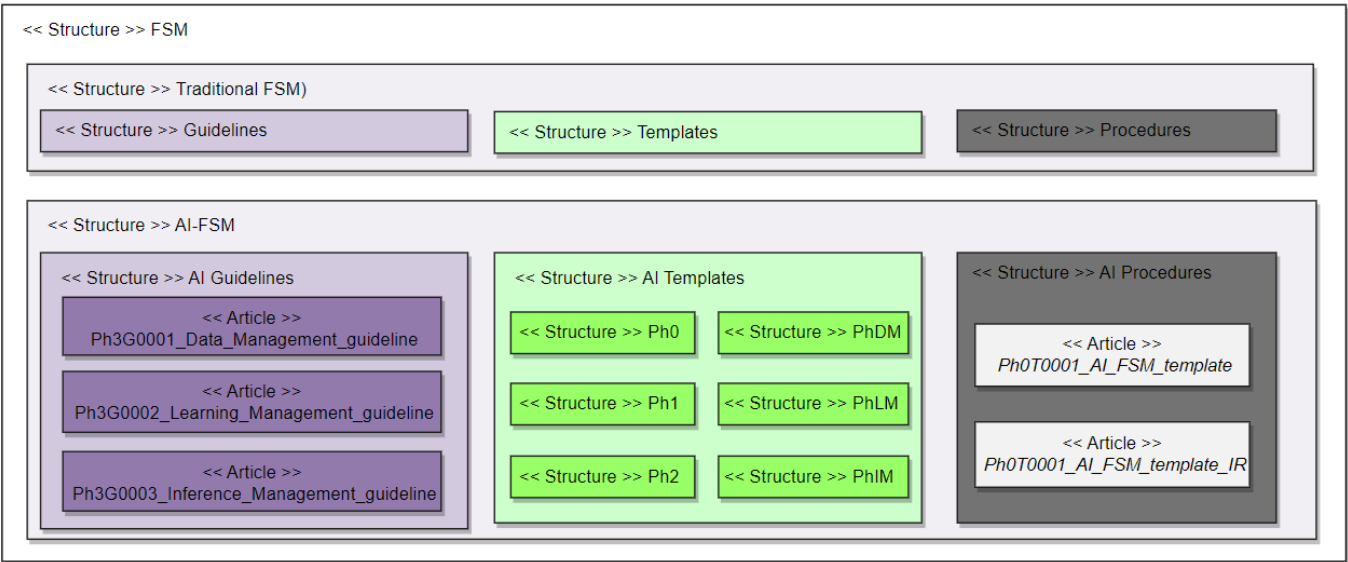
3 Scope

This procedure is applied to all generated documents for the development of the AI-FSM to fulfil the IEC 61508 and IEC 62443 (procedures, tables, diagrams, and others).

4 AI-FSM Data Management

To define the relationship between the different elements of a project, this part describes how to manage versions traceability.

Figure 1. Relationship between elements, structures and articles of the project



The complete relationship between the elements/articles of all the structures in the project shall be described below. Note that this document is complementary to the traditional version tracking template.

Table 1. FSM structure versioning information

<<Structure>> FSM	Latest Version	Previous version
<< Structure >> Guidelines	V1.0	-
<< Structure >> Templates	V1.0	-
<< Structure >> Procedures	V1.0	-
<< Structure >> AI-FSM	V1.0	-

Table 2. AI-FSM structure versioning information

<<Structure>> AI-FSM	Latest Version	Previous version
<< Structure >> AI guidelines	V1.0	-
<< Structure >> AI templates	V1.0	-
<< Structure >> AI Procedures	V1.0	-

Table 3. AI Guidelines articles versioning information

<<Structure>> Guidelines	Latest Version	Previous version
<< Article >> PhDMG0001_Data_Management_guideline	V2.0.1	V1.0
<< Article >> PhLMG0002_Learning_Management_guideline	V2.0	V1.0
<< Article >> PhIMG0003_Inference_Management_guideline	V2.0	V1.0

Table 4. AI Templates Structures versioning information

<<Structure>> Templates	Latest Version	Previous version
<< Structure >> Ph0	V1.0	-
<< Structure >> Ph1	V1.0	-
<< Structure >> Ph2	V1.0	-
<< Structure >> PhDM	V1.0	-
<< Structure >> PhLM	V1.0	-
<< Structure >> PhIM	V1.0	

Table 5. AI Procedures Articles versioning information

<<Structure>> AI Procedures	Latest Version	Previous version
<< Article >> PhOP0001_AI_FSM_Procedure	V2.0	V1.0

Table 6. Ph0 Articles versioning information

<<Structure>> Ph0 templates	Latest Version	Previous version
<< Article >> Ph0T0001_AI_FSM_template	V1.0	V1.0
<< Article >> Ph0T0001_AI_FSM_template_IR	V1.0	-
<< Article >> Ph0T0002_AI_Document_List_template	V1.0	V0.2
<< Article >> Ph0T0002_AI_Document_List_template_IR	V1.0	-
<< Article >> Ph0T0003_AI_Version_Tracking_template	V2.0	V1.0
<< Article >> Ph0T0003_AI_Version_Tracking_template_IR	V1.0	-
<< Article >> Ph0T0004_AI_Organizational_Chart_template	V2.0	V1.0
<< Article >> Ph0T0004_AI_Organizational_Chart_template_IR	V1.0	-

Table 7. Ph1 Articles versioning information

<<Structure>> Ph1 templates	Latest Version	Previous version
<< Article >> Ph1T0001_DL_Operational_Design_Domain_template	V2.0	V1.0
<< Article >> Ph1T0001_DL_Operational_Design_Domain_template_IR	V1.0	-
<< Article >> Ph1T0002_DL_Operational_Scenarios_template	V1.0	V0.2
<< Article >> Ph1T0002_DL_Operational_Scenarios_template_IR	V1.0	-

Table 8. Ph02 Articles versioning information

<<Structure>> Templates	Latest Version	Previous version
<< Article >> Ph2T0001_DL_Requirements_Specifications_template	V2.0	V1.0
<< Article >> Ph2T0001_DL_Requirements_Specifications_template_IR	V1.0	-

Table 9. PhDM Articles versioning information

<<Structure>> Ph2 templates	Latest Version	Previous version
<< Article >> PhDMT0001_Data_Requirements_Specifications_template	V2.0	V1.0
<< Article >> PhDMT0001_Data_Requirements_Specifications_template_IR	V1.0	-
<< Article >> PhDMT0002_Data_Collection_Log_template	V1.0	V0.3
<< Article >> PhDMT0002_Data_Collection_Log_template_IR	V1.0	-
<< Article >> PhDMT0003_Data_Preparation_Log_template	V2.0	V1.0
<< Article >> PhDMT0003_Data_Preparation_Log_template_IR	V1.0	-

Table 10. PhLM Articles versioning information

<<Structure>> PhDM templates	Latest Version	Previous version
<< Article >> PhLMT0001_Learning_Requirements_Specifications_template	V2.0	V1.0
<< Article >> PhLMT0001_Learning_Requirements_Specifications_template_IR	V1.0	-
<< Article >> PhLMT0002_Model_Election_Log_template	V1.0	V0.1
<< Article >> PhLMT0002_Model_Election_Log_template_IR	V1.0	-

Table 11. PhIM Articles versioning information

<<Structure>> PhIM templates	Latest Version	Previous version
<< Article >> PhIMT0001_Inference_Requirements_Specifications_template	V2.0	V1.0
<< Article >> PhIMT0001_Inference_Requirements_Specifications_IR	V1.0	-
<< Article >> PhIMT0002_Model_Conversion_Log_template	V1.0	V0.2
<< Article >> PhIMT0002_Model_Conversion_IR	V1.0	-
<< Article >> PhIMT0003_Model_Optimization_Log_template	V1.0	V0.2
<< Article >> PhIMT0003_Model_Optimization_Log_IR	V1.0	-

Note: Include in the Version_tracking.docx document generated in the traditional FSM that all the documents related to the AI-FSM have been included in the REF_PhOT0005_AI_Version_Tracking.docx document or copy the document's content into the traditional Version_tracking.docx document.

5 Acronyms and Abbreviations

Below is a list of acronyms and abbreviations employed in this document:

- AI-FSM – Artificial Intelligence - Functional Safety Management
- FSM – Functional Safety Management

6 Bibliography

Add here the reference to used bibliography / references (if any)