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[Organization name]

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PROCEDURE FOR DOCUMENTATION AND VALIDATION OF COMPUTER SOFTWARE

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Change history

Date Version Created by		Created by	Description of change		
	0.1	Advisera	Basic document outline		

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1. Purpose, scope and users

The purpose of this Procedure is to describe the activities for the documentation and validation of computer software used in the Quality Management System (QMS).

Users of this document are [job title] in [organization name].

2. Reference documents

- ISO 13485:2016 standard, clauses 4.1.6 and 7.5.6
- MDR 2017/745 Annex IX Chapter I

3. Documentation and validation of computer software

This Procedure covers the validation of two types of software:

· purchased software products that are not standard or configurable software packages

3.1. Validation team

[Job title]: manages the operation of software validation.

[Job title]: uses the systems on a day-to-day basis.

[Job title]: develops, tests, and supports the ongoing operation of systems.

[Job title]: reviews and approves validation documentation.

3.2. Software lifecycle model and validation

[Organization name] uses a lifecycle model approach to organize the validation process.

3.2.1. Requirements specification

The requirements and intended use of the software are provided by [job title] to the validation team and are the basis for the development and validation process.

The requirements should encompass issues concerning the use of the software, like:

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Commented [AES4]: Adapt to the organization's practice.

E.g., Validation Manager and validation team

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You can find the full text of the MDR on the following link: https://advisera.com/13485academy/mdr/

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- Version of requirements. The actual version of the requirements specification, and the changes applied to it, must be properly communicated.
- Input. All inputs for the software product, including specification of ranges, limits, defaults, etc., must be provided.
- Traceability. Activities taken to enable recording and tracing every critical event of the user.
- Hardware control. All equipment and device interfaces.
- Default settings. All settings that will apply automatically with the first start of the software
 product. Default settings include default input values and options, default instrument or
 program control settings, etc. Also, the information on maintenance and managing default
 settings must be provided.
- Version control. A set of measures and controls to enable distinguishing between different versions and outputs from different versions of the software product.
- Special requirements. Requirements arising from applicable international standards.

[Job title] must ensure that items of the software necessary for its proper use are defined in

- Documentation. All relevant information about the software product, including the mode of operation, needs to be documented.
- · User manual. How to use the software product.

requirements for the software. Such items include:

- Service and maintenance. Documented information on the level of support regarding maintenance, updates, resolving problems, etc.
- Special agreements. Agreements with the end user that can affect the software product development and use, e.g., special editions, additional features, etc.

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3.2.2. System acceptance test specification

Job title] is responsible for ensuring that the system acceptance test specifications are based on objective criteria for how the software product should be tested, to demonstrate that the

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3.2.3. Version identification

[Job title] must ensure that software is identified by unambiguous version identification. For example, this could be a three-digit version number,

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Commented [AES19]: Adapt to the organization's practice.

3.2.4. Documentation

[Job title] shall ensure that software application is correctly documented so that all relevant information is provided to the user, enabling him to utilize the software product properly.

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All documentation from the validation of the software needs to be maintained.

3.2.5. Installation and system acceptance test

[Job title] must ensure that purchased software products are normally supplied with an installation kit to ensure that the entire software product is installed correctly.

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If the software product to install only contains small, well-known updates, it may be sufficient to conduct only a partial test of the areas being updated. Partial testing can be performed only if validation of the entire software product was conducted previously.

3.2.6. Performance, servicing and maintenance

During this phase, the customer uses the software and all support that is included. The decisions about the changes, revalidation, and phase out occur during this phase.

[Job title] must ensure that maintenance activities for software products developed may be classified as follows:

 Problem / solution. This involves detection of software problems causing operational troubles. Commented [AES25]: Adapt to the organization's practice.

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Functional expansion and performance improvement. Records should be made about end

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[organization name]