

Batch control -- Part 3: General and site recipe models and representation

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 61512-3:2008 sisaldab Euroopa standardi EN 61512-3:2008 ingliskeelset teksti.

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**Batch control -
Part 3: General and site recipe models and representation
(IEC 61512-3:2008)**

Contrôle-commande des processus
de fabrication par lots
Partie 3: Modèles et représentation
des recettes générales
et des recettes de site
(CEI 61512-3:2008)

Chargenorientierte Fahrweise -
Teil 3: Modelle und Darstellungen
von Verfahrens- und Werksrezepten
(IEC 61512-3:2008)

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CENELEC

European Committee for Electrotechnical Standardization
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Europäisches Komitee für Elektrotechnische Normung

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

The text of document 65A/496/CDV, future edition 1 of IEC 61512-3, prepared by SC 65A, System aspects, of IEC TC 65, Industrial-process measurement, control and automation, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 61512-3 on 2008-08-01.

EN 61512-3 is to be used in conjunction with EN 61512-1 and EN 61512-2.

The following dates were fixed:

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Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 61512-3:2008 was approved by CENELEC as a European Standard without any modification.

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Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60050-351	2006	International Electrotechnical Vocabulary (IEV) - Part 351: Control technology	-	-
IEC 61512-1	1997	Batch control - Part 1: Models and terminology	EN 61512-1	1999
IEC 61512-2	2001	Batch control - Part 2: Data structures and guidelines for languages	EN 61512-2	2002
IEC 62264-1	2003	Enterprise-control system integration - Part 1: Models and terminology	EN 62264-1	2008
IEC 62264-2	2004	Enterprise-control system integration - Part 2: Object model attributes	EN 62264-2	2008
ISO/IEC 19501	2005	Information technology - Open Distributed Processing - Unified Modeling Language (UML)	-	-

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INTRODUCTION

IEC 61512-1 provides models and terminology applicable to batch control, IEC 61512-2 addresses data structures and guidelines for languages. This part of IEC 61512 defines additional information on general and site recipes. Clause 4 of this part of IEC 61512 contains definitions of general and site recipes in greater detail than in IEC 61512-1. Clause 5 defines detailed description of the contents of general and site recipes. Clause 6 defines a data model that identifies objects and relationships that were addressed in Clauses 4 and 5. Clause 7 defines a method for depiction of general and site recipes that can be used for both simple and complex processing requirements, using both a tabular and a graphical notation. Clause 8 describes some aspects of general or site to master recipe transformation. The annexes provide complementary information.

Although this part of IEC 61512 is intended primarily for batch processes, it may have considerable value for other types of processes as well.

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BATCH CONTROL –

Part 3: General and site recipe models and representation

1 Scope

This part of IEC 61512 on Batch Control defines a model for general and site recipes; the activities that describe the use of general and site recipes within a company and across companies; a representation of general and site recipes; and a data model of general and site recipes.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60050-351:2006, *International Electrotechnical Vocabulary – Part 351: Control technology*

IEC 61512-1:1997, *Batch Control – Part 1: Models and terminology*

IEC 61512-2: 2001, *Batch Control – Part 2: Data structures and guidelines for languages*

IEC 62264-1: 2003, *Enterprise-control system integration – Part 1: Models and terminology*

IEC 62264-2: 2004, *Enterprise-control system integration – Part 2: Object model attributes*

ISO/IEC 19501, *Information technology - Open Distributed Processing - Unified Modeling Language (UML) Version 1.4.2*

3 Terms, definitions and abbreviations

3.1 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 61512-1, IEC 61512-2 and IEC 60050-351, as well as the following, apply.

3.1.1

equipment-independent recipe

recipe type that defines general requirements for equipment but is not specifically tailored for a precise class or size of equipment.

3.1.2

master recipe transform component

part of a master recipe that is used in the transformation of an equipment-independent recipe into a complete master recipe.