

# ISO 13584-501:2007-02 (E)

## Industrial automation systems and integration - Parts library - Part 501: Reference dictionary for measuring instruments - Registration procedure

---

<b>Contents</b>		<b>Page</b>
Foreword .....		vi
1	Scope .....	1
2	Normative references .....	3
3	Terms, definitions, and abbreviations .....	4
4	Representation of ontology concepts as dictionaries entries .....	11
4.1	Measuring instrument classes .....	11
4.1.1	Modelled classes .....	11
4.1.2	Referenced classes .....	12
4.1.3	Used attributes .....	12
4.2	Property DET definitions .....	13
4.2.1	Modelled properties .....	13
4.2.2	Imported properties .....	13
4.2.3	Used Attributes .....	13
4.3	Data type definitions .....	15
4.3.1	Modelled domains of values .....	15
4.3.2	Used Attributes .....	15
4.4	Identification of dictionary entries .....	15
4.5	Specification of registration status .....	16
5	Classification principles .....	17
5.1	Connection to pre-existing classification .....	17
5.2	Upper level of the hierarchy .....	17
5.2.1	Principal identification hierarchy .....	17
5.2.2	Domain .....	17
5.2.3	Function .....	17
5.2.4	Principle .....	17
5.3	Subdivision of principal identification layers .....	18
5.4	Simplification of principal identification layers .....	18
5.5	Lower level of the hierarchy .....	18
5.6	Auxiliary classification .....	18
6	Computer sensible description .....	19
Introduction .....		viii
6.1	External files .....	19
6.2	Information model and conformance class .....	19
6.3	Implementation method .....	19
6.4	Language to be used for text attributes .....	19
6.5	Distribution of computer sensible descriptions .....	19
6.6	Control on the intermediate and formal releases .....	19
6.7	Registration authority identifier .....	20
7	Registration and maintenance procedure .....	21
7.1	Structure of registration authority .....	21
7.2	Role and responsibility .....	23
7.2.1	Role and responsibility of parties .....	23
7.2.2	Technical committee of registration authority .....	23

7.2.3	Secretary of registration authority .....	24
7.2.4	Validation committee of registration authority .....	25
7.2.5	ISO/IEC member body .....	26
7.3	Registration procedure .....	26
7.3.1	Decision rules .....	26
7.3.2	Registration process flow .....	27
7.3.3	Task of registration authority .....	30
8	Principles of dictionary edition, update, and maintenance .....	32
8.1	Initial release of the dictionary .....	32
8.2	Version and revision numbers of dictionary elements .....	32
8.2.1	Version number .....	32
8.2.2	Revision number .....	32
8.3	Identification of a formal release of the reference dictionary .....	33
Annex A (normative) Information object registration .....		34
Annex B (normative) Dictionary physical file .....		35
Annex C (normative) Class definition .....		36
Annex D (normative) Property definitions .....		37
Annex E (normative) Application form for dictionary elements .....		38
Annex F (informative) History of registration authority .....		44
Bibliography .....		45
Index .....		47
Figures Figure 1 -- BSU coding style .....		16
Figure 2 -- Registration time frame .....		28
Figure 3 -- Registration flow diagram .....		29
Tables Table 1 -- Structure of registration authority and levels of participation .....		22
Table F. 1 -- Historical record of ISO13584-501 registration authorities .....		44