

Description Rule of Property Value List

[Rule Number : ECALSDS04]

Version2.4

Abstract: This rule prescribes a computer sensible expression of values in the Property Value List for electronic components in ECALS Dictionary

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1. Purpose and Scope

(1) Purpose

This rule prescribes a computer sensible expression and description form of electronic components for Property Value List, which is a list of values of the Property that Data Type is Enumeration Type . The purpose of this rule is to provide a neutral mechanism of describing part information, independent of a specific information system in either providers or users.

In implementing a system or a database, it needs additional expansion into an optimum form .

This description rule keeps interoperability, referring to ISO13584 and/or IEC61360, in order to exchange part information data world-widely.

(2) Scope

This description rule is applied to the Property Value List of electric components

(3) Normative references

The following are principal standards and rules to which this rule refers.

- IEC 61360-1: 1995, Standard data element types with associated classification scheme for electric components- Part 1: Definitions, principles and methods
- IEC 61360-2: Standard data element types with associated classification scheme for electric components Part 2: EXPRESS Dictionary Schema
- ISO 13584-42: 1998 Industrial automation systems and integration - Parts Library - Part 42: Methodology for structuring part families)
- Description Rule of Part Class Dictionary
- Description Rule of Property Dictionary

2. Description Rule of Property Value List

The following set of items is used to specify each attribute for Enumeration Type Property which is defined in Property Value List.

- Objective : Describe a purpose of the attribute.
- Description : Specify how to write the attribute.
- Obligation : The attribute is mandatory, if this item has a value, “Obligation”.
- Formulation : Define a type formulation to express a value of the attribute. Maximum data length must be included, if the attribute is String Type.
- Example :An example of Property Value

(1) Property Code

It must be used the same Property Code that the Data Type is defined as Enumeration in ‘Description Rule of Property Dictionary’.

This attribute is “Obligation”. This attribute is defined in ECALSDS03, ‘Description Rule of Property Dictionary’.

(2) Property Name

It must be used the same Property Name (Japanese) of the Property that the Data Type is defined as Enumeration (String Enumeration or Integer Enumeration) in ‘Description Rule of Property Dictionary’. This attribute is “Obligation”. This attribute is defined in ECALSDS03, ‘Description Rule of Property Dictionary’.

(3) Property Value.EN

The following is the describing rule for Property Value.EN.

Objective	List up a set of possible values for the Property. They are used for display to users in a restricted area on a screen.
Description	It is prioritized to use an abbreviated term, which is used widely in International Standard, National standard or Industrial Standard. Theoretically, it would be fine to keep identification. Since a Property has several values, it is required that the Property Values are unique.
Obligation	Obligation
Formulation	Alphanumeric characters of 17 letters or less (a single byte).
Example	DEV, PRE, PROD, NRND

Note: The Property Value defines values of a Property which Data Type is Enumeration (String Enumeration or Integer Enumeration). A Property defined here always has several values.

(4) Property Value.JA

The following is the describing rule for Property Value.JA

Objective	List up a set of possible values for the Property. They are used for display to users in a restricted area on a screen.
Description	It is prioritized to use an abbreviated term, which is used widely in International Standard, National standard or Industrial Standard. Theoretically, it would be fine to keep identification. Since a Property has several values, it is required that the Property Values are unique.
Obligation	Obligation
Formulation	A string of 17 letters or less with a combination of a single-byte alphanumeric code and a double-byte Kana-Kanji character. A character string, which is allowed to use, should be based on ECALSDS14, 'Detailed Rule concerned with characters in ECALS Dictionary'.
Example	(written in Japanese) 開発中,事前準備,量産体制,生産中止予定

(5) Value Meaning.EN

The following is the description rule for Property Value Meaning.EN

Objective	Define a brief meaning of a Property Value.
Description	Describe in English so as to make a meaning clear.
Obligation	Obligation
Formulation	Alphanumeric characters of 70 letters or less
Example	(in case of NRND) not recommended for new design

(6) Value Meaning.JA

The following is the describing rule for Property Value Meaning.JA

Objective	Define a brief meaning of a Property Value.
Description	Describe in Japanese so as to make a meaning clear.
Obligation	Obligation
Formulation	A string of 70 letters or less with a single-byte alphanumeric character and a double-byte Kana-Kanji character. A character string, which is allowed to use, should be based on ECALSDS14, ‘ Detailed Rule concerned with characters in ECALS Dictionary’
Example	(written in Japanese) 生産中止予定のため新機種への採用禁止

(7) The list of the describing attribute items of Property Value List

Table 2-1 shows List of the describing attribute items of Property Value List.

Table 2-1 List of the describing attribute items of Property Value List

Attribute name (EN)	Attribute name (JA)	Objective	Description	Obligation	Formulation
Property Code	プロパティコード	To specify a property which uses an enumerated element	Write BSU code which is defined in a Property Dictionary	Obligation	Property BSU code
Property Name	プロパティ名称	Property Name which uses an enumerated element	Write a property name which is defined in Property Dictionary	Obligation	Japanese Preferred Name
Property Value EN	プロパティ値 (英語)	To list up Values of an enumerated property.	Should be identical among property Values	Obligation	Alphanumeric characters of 17 letters or less
Property Value JA	プロパティ値 (日本語)	To list up Values of an enumerated property.	Should be identical among property Values	Obligation	Alphanumeric and Kana-kanji character of 17 letters or less
Value Meaning EN	値の意味 (英語)	To define a brief meaning of Property Value.	Describe a meaning of a Property Value in English to make it easy to understand	Obligation	Alphanumeric characters of 70 letters or less
Value Meaning JA	値の意味 (日本語)	To define a brief meaning of Property Value	Describe a meaning of a Property Value in Japanese to make it easy to understand	Obligation	Alphanumeric and Kana-kanji character of 70 letters or less

Table 2-2 shows an example of possible values of the Property ‘XJG021’.

Table 2-2 Example of possible values of the property ‘XJG021’

Property Code	Property Name	Property Value.EN	Property Value.JA	Value Meaning.EN	Value Meaning.JA
XJG021	Function class	Fast Page	ファーストページ	FP(fast page)DRAM	ファーストページ
XJG021	Function class	EDO	EDO	EDO(Extended Data Out) DRAM	EDO
XJG021	Function class	Synchronous	シンクロナス	S(Synchronous)DRAM	シンクロナス
XJG021	Function class	Rambus	ランバス	R(Rambus)DRAM	ランバス
XJG021	Function class	DDR-DRAM	ダブルデータレート	DDR(Double Data Rate) SDRAM	ダブルデータレート
XJG021	Function class	Other Function	その他	Other Function	その他

3. Version and Revision rule for Property Value List

This Rule is in accordance with the rule of ECALSDS11, ‘ Fundamental Rule of ECALS Dictionary revising’.

Note)

- 1 . Technical Committee for Standardization (TCS) is the only authority who is able to modify and withdraw this rule.
- 2 . This specification was opened to the public.
- 3 . Revision history

Date	Status	Version/ Revision	Major changes
2000/9/28	Published	001-01	
2000/12/05	Revised	001-02	
2002/3/15	Versioned	002-01	<ul style="list-style-type: none"> • Changed from Option to Obligation for the obligation attribute of Property ‘Value Meaning .EN’ and ‘Value Meaning.JA’. • Changed normative reference which is defined in other rules
2002/10/18	Revised	002-02	<ul style="list-style-type: none"> • Changed data length of ‘Property Value’ and ‘Value Meaning’ according to a revised IEC61360-1 (2002-02) .
2004/12/01	Revised	002-03	<ul style="list-style-type: none"> • Editorial modification
2005/ 4/28	Revised	002-04	<ul style="list-style-type: none"> • Change of disclosure scope.