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Industrial automation systems and integration — Integration of life-cycle data for oil and gas production facilities — Issues log for Part 1: Overview and fundamental principles

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ABSTRACT:

This document lists the issues that have been raised during the development of ISO/CD 15926-1.

KEYWORDS:

industrial data, oil and gas, facility, life-cycle, overview, issues log

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Comments to reader:

This document lists the relatively small number of issues that have been raised during industry and ISO committee reviews of ISO 15926-1.

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Industrial automation systems and integration — Integration of life-cycle data for oil and gas production facilities — Issues log for Part 1: Overview and fundamental principles

1 Introduction

This document lists issues that have arisen during the development of ISO 15926-1. Issues have been collected from three sources:

a) industry reviews of working drafts of the part;

b) reviews of working drafts within ISO TC184/SC4/WG3 T20 “Process plant” and T21 “Oil and gas”;

c) the ISO 15926 development team.

The following information is noted for each issue.

a) Clause/subclause to which the issue applies.

b) Paragraph, figure or table to which the issue applies.

c) Type of comment (general, technical or editorial).

d) Comment (with rationale).

e) Proposed change.

f) Status.

g) Disposition of the issue at the start of the ISO 15926-1 Committee Draft ballot.

2 Document history

Issues are noted with respect to the following versions of ISO/WD 15926-1. Versions without a WG3 N-number have not been distributed outside the project team.

0.1	1997-11-30	
0.2	1998-01-16	
0.3	1998-01-22	WG3 N721
0.4	1998-03-03	
0.5	1998-04-23	
0.6	1998-05-07	WG3 N742

0.7	1999-02-23	
0.8	1999-03-08	WG3 N781
0.9	1999-09-03	WG3 N794

3 Issues

Issue 01 (WG/team reviews-1) *Status* Open

Author: WG3 T20/T21 *Disposition*: Accepted

Against: 0.3 (WG3 N721)

Clause: 1

Class'n: Minor Technical

Description:

Members of WG3 T20 and T21 have requested that the extract from the PPEAM shown in Figure 1 should be replaced by an equivalent diagram from the PIEBASE activity model.

Proposed resolution:

It is intended that the updated PIEBASE activity model will be substituted for the version shown here, as and when the former is available in an equivalent ("bright colours") form.

Issue 02 (WG/team reviews-2) *Status* Open

Author: Julian Fowler *Disposition:* Under review

Against: 0.3 (WG3 N721)

Clause: Annex A

Class'n: Minor Technical

Description:

It would be useful if 4.3 of ISO 10303-1 could be generalized so that it could be referenced from here, rather than repeated with minor changes. The description here also needs to be validated against the more detailed information provided in the latest draft of the SC4 Supplementary Directives.

Proposed resolution:

Raise a SEDS issue against Part 1 of ISO 10303. Until a new edition to Part 1 of STEP is produced, however, this Annex will be necessary here. As worded now the Annex is specific to ISO 15926 - it should be generalized so that it can be referenced from other standards (such as those proposed to support the standard Reference Data Library for the Process Industries).

Issue 03 (WG/team reviews-3) *Status* Closed

Author: WG3 T20/T21 *Disposition:* Accepted

Against: 0.8 (WG3 N781)

Clause: 6

Class'n: Major Technical

Description:

It was noted at the Lillehammer meeting in June 1999 that the discussion of conformance in the document is insufficient.

Proposed resolution:

Add additional discussion and detail on conformance.

Actual resolution:

Material that has previously been distributed as a draft of another possible part ("Y") of ISO 15926 has been incorporated in a substantially enlarged clause 6.

Issue 04 (WG/team reviews-4) *Status* Transferred

Author: Julian Fowler *Disposition:* Accepted

Against: 0.2

Clause: Introduction

Class'n: Editorial

Description:

Numbering of the Introduction and of subsections within in (0.1, 0.2, etc. is permitted by the ISO/IEC Directives Part 3 but has not (to the best of my knowledge) been used previously within SC4. Input from the Quality Committee is required with respect to this.

Proposed resolution:

Allow this structure for the Intoduction.

Actual resolution:

Request for comments was circulated to the Quality Committee 1999-08-16 - no objections were received. This needs to be reflected in the SC4 Supplementary Directives. Issue transferred to QC.

Issue 05 (WG/team reviews-5) *Status* Closed

Author: Julian Fowler *Disposition:* Accepted

Against: 0.2

Clause: 3

Class'n: Minor Technical

Description:

We need to review the glossary of terms in Snapshot C/D and determine which are appropriate for inclusion here.

Actual resolution:

Clause 3 now reflects the required terminology for ISO 15926.

Issue 06 (WG/team reviews-6) *Status* Open

Author: Julian Fowler *Disposition:* Accepted

Against: 0.4

Clause: general

Class'n: Major Technical

Description:

Appropriate references should be added to the proposed additional parts "X" (Reference Data Library") and "Y" (Conformance").

Actual resolution:

The proposed part "Y" has been incorpotated into clause 6 of Part 1. Part "X" is now planned as the initial content part of the proposed ISO xxxxx - the common RDL for the process industries. This is referred to once in a note in the Introduction to Part 1, and is discussed at greater length in the Readers' Guide (WG3 N802).

Issue 07 (WG/team reviews-7) *Status* Closed

Author: Julian Fowler *Disposition:* Accepted

Against: 0.4

Clause: 6

Class'n: Minor Technical

Description:

Would it be useful to prescribe that every conforming implementation shall have an API that supports population and browsing of data according to the conceptual model? In other words, is there are requirement to have one (default) external view that is structurally and semantically equivalent to the conceptual model? Another (but more technologically dependent) way of stating this would be to require the existence of an early-bound SDAI interface to the implementation.

Actual resolution:

Resolved by the expansion and rewriting of clause 6/

Issue 08 (WG/team reviews-8) *Status* Closed

Author: Jan Sullivan *Disposition:* Accepted

Against: 0.5

Clause: general

Class'n: Editorial general

Description:

Change "computer-sensible" to "computer-processable" throughout.

Proposed resolution:

Actual resolution:

Document changed as proposed.

Issue	10 (WG/team reviews-10)	*Status*	Closed
Author:	Jan Sullivan	*Disposition:*	Accepted
Against:	0.5		
Clause:	3, 5.1		
Class'n:	Minor Technical		

Description:

Need to add definition of instance as used in 5.1.

Proposed resolution:

Suggestion "computer data that represents some real world thing".

Actual resolution:

Definition added to Part 1, with a note that this is different from "instance" in EXPRESS.

Issue	11 (WG/team reviews-11)	*Status*	Closed
Author:	Jan Sullivan	*Disposition:*	Accepted
Against:	0.5		
Clause:	3.9		
Class'n:	Editorial	3.9	

Description:

I think I want to eject users from these definitions. Having two users of distinct facility data does not make it reference data ... with the meanings we have.

Actual resolution:

Definition in the CD (of "reference data") is: facility life-cycle data, in the form of application object instances, that represents oil and gas production facilities according to the common model

Issue	12 (WG/team reviews-12)	*Status*	Closed
Author:	Julian Fowler	*Disposition:*	Rejected
Against:	0.4		
Clause:	5.3.1.2		
Class'n:	Minor Technical		

Description:

I'm not sure that a stronger statement than this is possible with respect to PLIB. There may be a requirement for a study to validate/refute this statement.

Actual resolution:

Discussion of this issue with WG2 experts has not raised any complaints about what is stated in Part 1.