JT OPEN

JT as a Standard

	Mike Zink
SIEMENS	Siemens PLM Software
SEPTEMBER 12 -14	2010 International Conference

VISUALIZING THE FUTURE
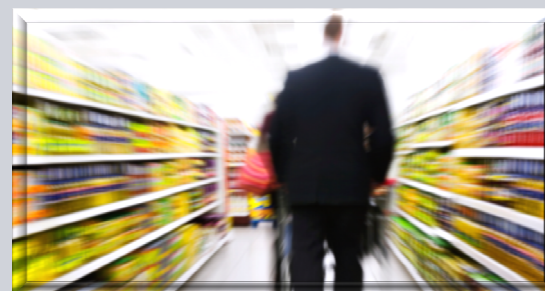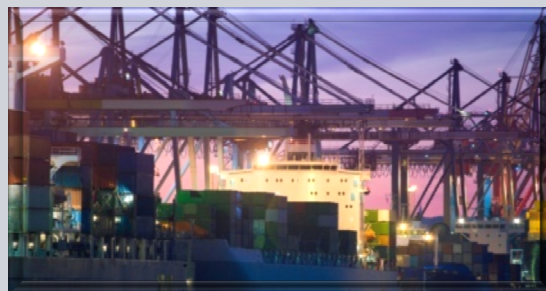
JT as a Standard Today

JT is recognized globally by industry as a standard file format for lightweight 3D data and visualization

- Initially for the Automotive industry but increasingly in Aerospace, Consumer Products, Ship Building and other market segments
- Pre dates the JT Open Program as an industry / de-facto standard

Siemens PLM Software

Standards Need to be Published

The global community requires standards to be published

- The JT File Format is published and freely available

Siemens PLM Software
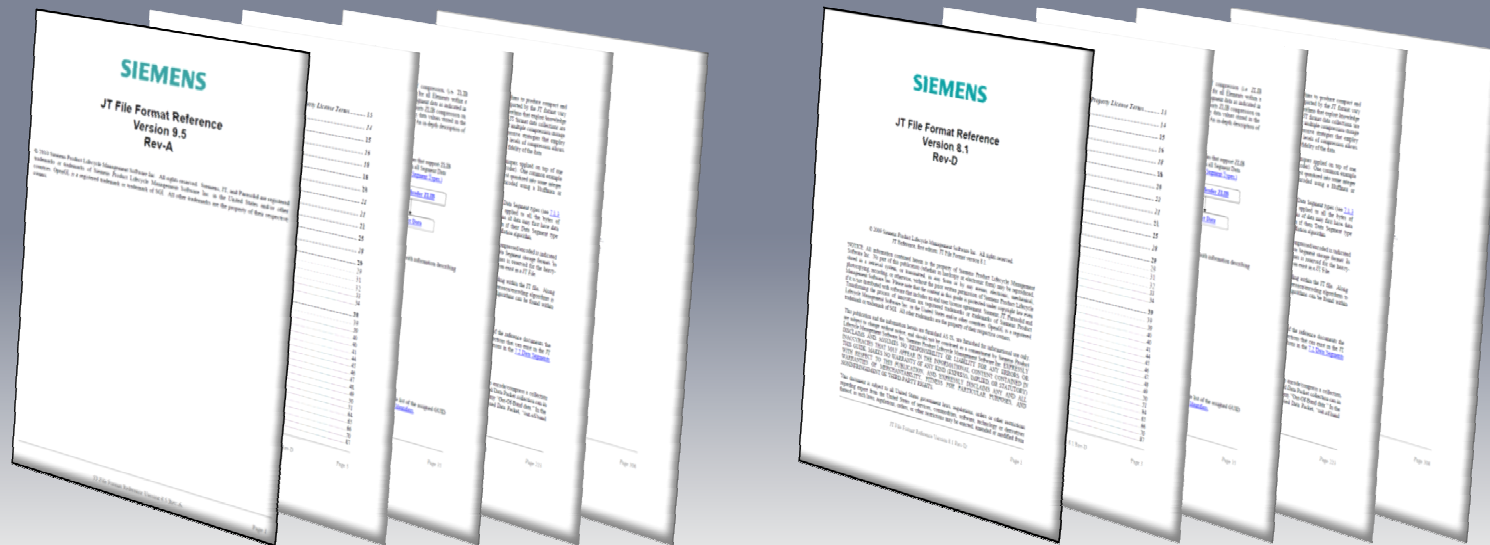
Standards Require Community Support

The JT format is *directly* supported by the JT Open Program membership

- 28 Corporations, 44 Software Vendors, 13 Academic Inst.

Corporate Members

AWE	Nissan
Boeing	PATAC
Bowers & Wilkins	Procter & Gamble
Caterpillar	Renault
Chrysler	Robert Bosch
Daimler	Rolls Royce
Dana	Siemens
DENSO IT	Suzuki
Ford	Speedshape
Freightliner	Tata Motors
General Motors	Visteon
Honda	W.E.S.T Eng
Mazda	VW Audi
Magna International	

Vendor Members

Actify	KUBOTEK
Adobe	Landmark Tech
Altair Engineering Inc	Okino Graphics
ANARK	PTC
Asahi Electronics	ParallelGraphics
Autodesk	PerspectixAG
Bently Systems	Piterion GmbH
Beta CAE Systems	Realtime Technology AG
CD Adapco	Right Hemisphere
Computational Engineering	Siemens
Computer Sciences Corp	SpaceClaim Corp
CT CoreTechnologie GmbH	Spatial Integrated Systems
Dowl System Co., Ltd	Open Text (Spicer)
Elysium	Teraport GmbH
ICIDO GmbH	Theorem
Icona Solutions Ltd	Transmagic
Infiscape	T-Systems Enterprise
InnovMETRIC	Trubiquity
ITI	Vision Software AB

Academic Members

Shanghai Jiatong Unv	Villanova Unv
Unv of Michigan	Unv of Texas, El Paso
Purdue	Heriot-Watt Unv
Brigham Young	Unv of Edinburgh
Iowa State	Unv of Ontario
Unv of Tulsa	Prarie View A&M Unv
Northwestern Unv	Darmstadt Unv

DesignTech
Technology For Designing The Future

Standards Require Community Support

Also by companies that make use of JT in their daily processes

- For Siemens alone, potentially 56,000 Customers, Operating 5.9M Seats Across the Globe

SIEMENS

JT Policy for Openness – JT Open Toolkit

For the past 8 years access to JT Open Toolkit has been available through JT Open Program membership using a *"level playing field"* model

- <u>Any/all</u> software vendors and corporations can join the JT Open Program to obtain the ability to read and write JT
- Level playing field access helps form the basis for JT openness

JT as a Standard Today

JT IS WELL POSITIONED
USERS SAID
"KEEP GOING!"

Siemens PLM Software

Additional Requirements for JT Adoption

JT Open Program members asked for

"One standard format for 3-D models world wide"

JT Open Program Management Review Board proposed the JT format should be officially recognized by a standards body to increase adoption and expand use in specific workflows and use cases

- Data archiving
- Corporate definition as a common process format

Proposal drafted to promote JT as an ISO deliverable (May 2007)

ISO / JT

The JT File Format Reference was accepted by ISO on September 18 2009 as a Publically Available Specification (PAS) for 3D Visualization

- ISO PAS 14306 is the V8.1 JT File Format Reference

SECRETARIAT

Technical Committee 184: Automation Systems and Integration
Subcommittee 4: Industrial data

TC 184/SC4 N2504

The
2007
Lawrence D. Eicher Leadership Award

2009-09-18

ISO PAS Ballot Results, JT File Format Specification harvesting for 3D Visualization of industrial data

The SC4 Secretary has reviewed the ballot responses and in consultation with the Chair has decided that the specification has been accepted for publication as a PAS.

This document is also available digitally through SC4ONLINE at: SC4N2504.

The ballot results and any comments are available in the index.pdf file provided at SC4ONLINE along with this ISO PAS ballot results notification.

...iemens PLM Software

PAS is an ISO Product

PAS provides a tool by which ISO can harvest industry standards for immediate use by the global community

- A Publicly Available Specification is one of 5 products offered by ISO.

  - It is published to respond to an urgent market need representing either the consensus of the experts within a working group, or a consensus in an organization external to ISO.

- A PAS is published by ISO for immediate use and also as a means to obtain feedback for transformation into an International Standard.

- A PAS has a lifetime of six years before a status change is required.

ISO deliverables

Siemens PLM Software

ISO JT PAS
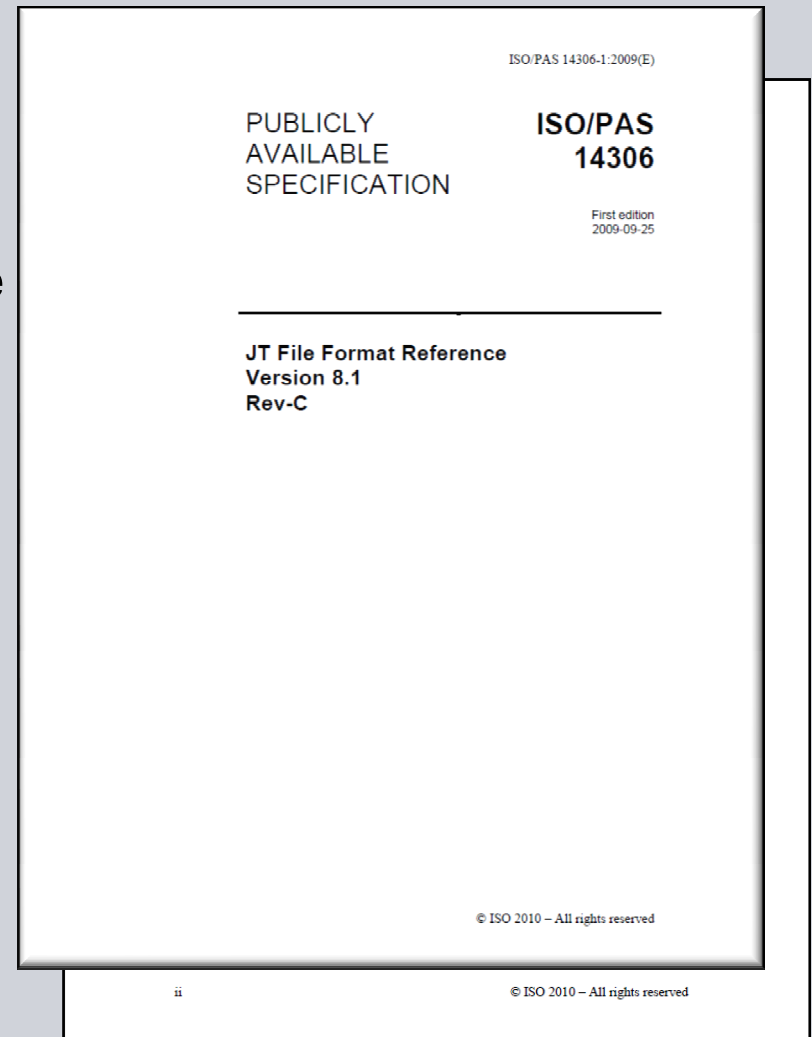
JT is currently a PAS not an IS

The ISO JT PAS number is 14306

PAS 14306 is the JT file format reference

Siemens still owns JT

Long Term Data Retention – PAS status may help your organization

PAS 14306 does include the XT B-Rep format reference

ISO/PAS 14306-1:2009(E)

PUBLICLY AVAILABLE SPECIFICATION

ISO/PAS 14306

First edition 2009-09-25

JT File Format Reference Version 8.1 Rev-C

© ISO 2010 – All rights reserved

ii   © ISO 2010 – All rights reserved

JT IS WELL POSITIONED
JT IS AN ISO PAS
KEEP GOING!

JT as an International Standard

The JT File Format Specification is currently being balloted through ISO TC 184/SC 4 as a New Work Item (NWI) for an International Standard

- The NWI seeks to confirm the global communities approval for adopting the standard and to identify five country sponsors

TC184/SC4 Ballot Announcement Message
==

Message Number: 0052
Ref_ID: (SC4BallotAnnounce0052)Vote on ISO/TC 184/SC 4 SC4N2625 ISO/NWI JT File Specification for 3D Visualisation
==

The following message is also available from the ISO TC184/SC4 website, SC4ONLINE .

SubCommittee Name: TC184/SC4, Industrial data
SC4ONLINE Location: Whats New, General Documents, SC4 Ballot Announcements and Reminders, 2010 - Present Folder (http://ng.tc184-sc4.org/index.cfm?PID=784&FID=57595)

ISO/TC 184/SC 4 Standard: JT File Specification for 3D Visualisation
Type of Ballot: NWI

Expected Action: Vote on SC4 Ballot

Due Date (Expected Action): 2010-11-24

Siemens PLM Software

Siemens and ProSTEP iViP

Siemens PLM Software and ProSTEP iViP are working hand in hand to bring the JT Format through ISO acceptance as an International Standard

ProSTEP iViP was instrumental in achieving ISO PAS 14306

- They are now the sponsors for the New Work Item Proposal

Siemens PLM Software

Working Toward ISO IS for JT

STAGE	SUB-STAGE						
	00	**20**	**60**	**90** Decision			
	Registration	Start of main action	Completion of main action	**92** Repeat an earlier phase	**93** Repeat current phase	**98** Abandon	**99** Proceed
00 Preliminary stage	00.00 Proposal for new project received	00.20 Proposal for new project under review	00.60 Close of review			00.98 Proposal for new project abandoned	00.99 Approval to ballot proposal for new project
10 Proposal stage	10.00 Proposal for new project registered	10.20 New project ballot initiated	10.60 Close of voting	10.92 Proposal returned to submitter for further definition		10.98 New project rejected	10.99 New project approved
20 Preparatory stage	20.00 New project registered in TC/SC work programme	20.20 Working draft (WD) study initiated	20.60 Close of comment period			20.98 Project deleted	20.99 WD approved for registration as CD
30 Committee stage	30.00 Committee draft (CD) registered	30.20 CD study/ballot initiated	30.60 Close of voting/comment period	30.92 CD referred back to Working Group		30.98 Project deleted	30.99 CD approved for registration as DIS
40 Enquiry stage	40.00 DIS registered	40.20 DIS ballot initiated: 5 months	40.60 Close of voting	40.92 Full report circulated: DIS referred back to TC or SC	40.93 Full report circulated: decision for new DIS ballot	40.98 Project deleted	40.99 Full report circulated: DIS approved for registration as FDIS
50 Approval stage	50.00 FDIS registered for formal approval	50.20 FDIS ballot initiated: 2 months. Proof sent to secretariat	50.60 Close of voting. Proof returned by Secretariat	50.92 FDIS referred back to TC or SC		50.98 Project deleted	50.99 FDIS approved for publication
60 Publication stage	60.00 International Standard under publication		60.60 International Standard published				
90 Review stage		90.20 International Standard under periodical review	90.60 Close of review	90.92 International Standard to be revised	90.93 International Standard confirmed		90.99 Withdrawal of International Standard proposed by TC or SC
95 Withdrawal stage		95.20 Withdrawal ballot initiated	95.60 Close of voting	95.92 Decision not to withdraw International Standard			95.99 Withdrawal of International Standard

Estimated schedule

20.20 2010-12-15
Availability of working draft

30.20 2011-02-01
 Launch of CD (committee draft)

40.00 2011-07-01
DIS (draft international standard) registered at ISO

50.00 2011-12-01
FDIS (final draft IS) ballot registered for formal approval/ Document submitted to ISO for publication cycle

60.00 2012-08-31
Final document sent to ISO for publication after FDIS ballot, or review of ISO proof by team

JT Conformance with ISO TC 184/SC 4 Standards

TC 184/SC 4 manages several standards

- Part of the process is defining the conformance of JT to the existing ISO standards

emens PLM Software

What changes when JT become an IS ?

JT as an International Standard

- Adds permanence to JT in Industry
- Resolves issues with corporate policy for adoption of formats
- SC 4 Committee will manage updates to the ISO publication

JT IS STILL JT A FULLY IMPLEMENTED INTERNATIONAL STANDARD

Future for JT as a Standard

"One standard format for lightweight 3-D models world wide"

served

Siemens PLM Software

Questions

Siemens PLM Software