



S1000D® and ATA iSpec 2200 – Co-existence or Transforming

HiCo
COM

HiCo Group

Austria | Germany | Switzerland

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Agenda

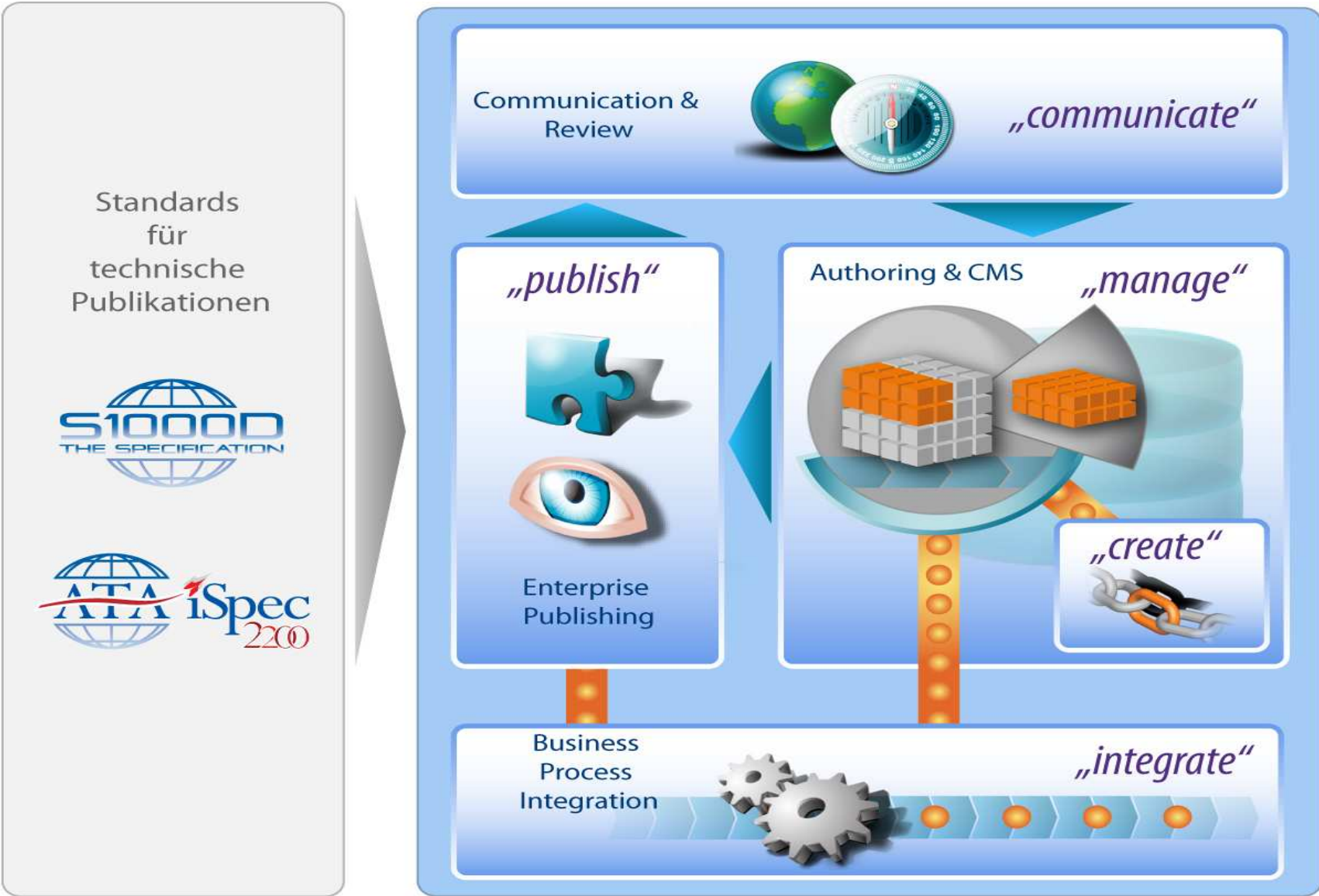
- 🔥 **Introduction** (Person, Company)
- 🔥 **Customer needs**
- 🔥 **Transformation**
- 🔥 **Co-existence**
- 🔥 **Conclusion**

- ☉ Kay-Michael Goertz
- ☉ Diplom-Informatiker (engineer of Computer Science)
- ☉ 6 years software development
- ☉ 7 years at HDW in logistics department
- ☉ Responsible for IT and processes (IETD, ...)
- ☉ Since 2009 employee of Hico

- **HiCo-ICS** was founded in **1997** in Eisenstadt / Austria
- European **provider of IT services & products for integrated & companywide solutions for Information Logistics**
- Headquarter in **Eisenstadt (*Vienna Region*)** with offices in **Hamburg** and **Zurich**
- European presence by integration in **partner and technology networks (e.g. PTC)**

- Member of the **AAIG (Austrian Aeronautics Industries Group)**
- in 2006 Austria was represented in the **TPSMG**
- since 2008 Mr. Schadelbauer (CEO) is the Industry representative for Austria in the **S1000D® Steering Committee**

Introduction



FigNo.: ~H-HRP.MKT.GR.HP.COM/gig00-006_v01.01

**aviation
ship building industry & naval
supplier industry / logistic service providers**



BVN Emden
ThyssenKrupp Marine Systems
A company of ThyssenKrupp Technologies



AVIATION SERVICE NETWORK





Customer Needs

Customer Needs – Initial Position



- Component Maintenance Manuals
 - Step-by-step procedures for tasks
 - Illustrated Parts Catalogue/Lists
 - Schedules, Descriptions

- Limited personal resources
 - Knowledge regarding standards
 - Training costs

- Components mostly used in civil projects

- More and more in military projects too

- 🔸 Requirements of customer
 - 🔸 Follow different standards (S1000D/ATA iSpec 2200)
 - 🔸 Follow National Style Guides (NSG) (military)
 - 🔸 Follow Guidance Documents (GD)

- 🔸 Enhanced Tailoring

Customer Needs – Balance 1



- Subcontract service provider for documentation
 - PRO: no additional trainings costs
 - PRO: no investment
 - CON: overdependence

- Invest into authoring system
 - PRO: less dependency
 - CON: trainings costs

- Only with an efficient solution customer will invest into an authoring system – Return of Invest?

Customer Needs – Balance 2



- New requirements:
 - Documentation “just-in-time”
 - Different versions of component
 - Changing requirements during contract

- Writing of documentation
 - Part of engineering process
 - Connection to process management systems

- Interest to invest increases
 - Still two ways – transformation vs. co-existence



Transformation

- ☪ 3 Scenarios
- ☪ ATA iSpec 2200 -> S1000D
- ☪ S1000D -> ATA iSpec 2200
- ☪ "company standard" -> S1000D or ATA iSpec 2200

Transformation – iSpec -> S1000D



- ☉ Investigations
 - ☉ Basically mapping is possible
 - ☉ One-time conversion: yes
 - ☉ Changes, Updates: more difficult

- ☉ Meeting all the requirements from GD:
 - ☾ Constantly changing mapping
 - ☾ Enhancing with additional information

- ☉ Customer are unhappy!

Transformation – S1000D -> ATA iSpec



- ☉ Investigations
- ☉ mapping is possible (lose of information)
- ☉ One-time conversion: ok – we could do it, ...
- ☉ Changes, Updates: more difficult

- ☉ Meeting all the requirements from GD:
 - ☾ Constantly changing mapping
 - ☾ Losing with additional information

- ☉ Customer are unhappy!

Transformation – „company“ ->



- ☉ IT-guys like this (XML, XSL, Xlink, Xpath, ...)
- ☉ “everything” is possible

- ☉ But:
 - ☾ Costs for creating the company standards
 - ☾ Costs for maintaining this

- ☉ Meeting all the requirements from GD:
 - ☾ Constantly maintaining “company standard”
 - ☾ Constantly changing mapping

- ☉ Customer are unhappy!

Transformation



- ☀️ YES, if you are
 - ☾ Bound to one customer
 - ☾ Go way 1 or 2
 - ☾ Try way 3, if you can afford it

- ☀️ Our decision: Go for Co-existence



Co-existence

- ☀ Yes, but
 - ☀ We can not afford 2 systems.
 - ☾ Cost of system
 - ☾ Cost of training
 - ☀ We can not spend money to train 2 standards fully.

Our task

1 system – 2 standards – 1 way of thinking

Basic concepts

- ☀ Usage of data modules during authoring
- ☀ DMC based on S1000D
- ☀ Writing manuals (not a pile of modules)
- ☀ Support of multiple languages

Basic concepts

- 🔴 Authoring process (project, manual, module)
- 🔴 Internal presentation differs from delivery
 - 🔵 Only XML supported
 - 🔵 Import/Export processes

Creating a data module

Dokument | Erweiterter Eigenschaften | Versionen

Identifikation

TEMPLATE	P	00	00	00	04000	000	0006	A	01	000	000
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Techname CLEANING

Infoname

Standard Vers. ATA iSpec 2200 10.2 Bibliothek Common ATA Library Example

Schema HiCo PGBLK Sicherheitsstufe 1

Statusinformation

Dok.status Ausgabotyp Ausgabenummer

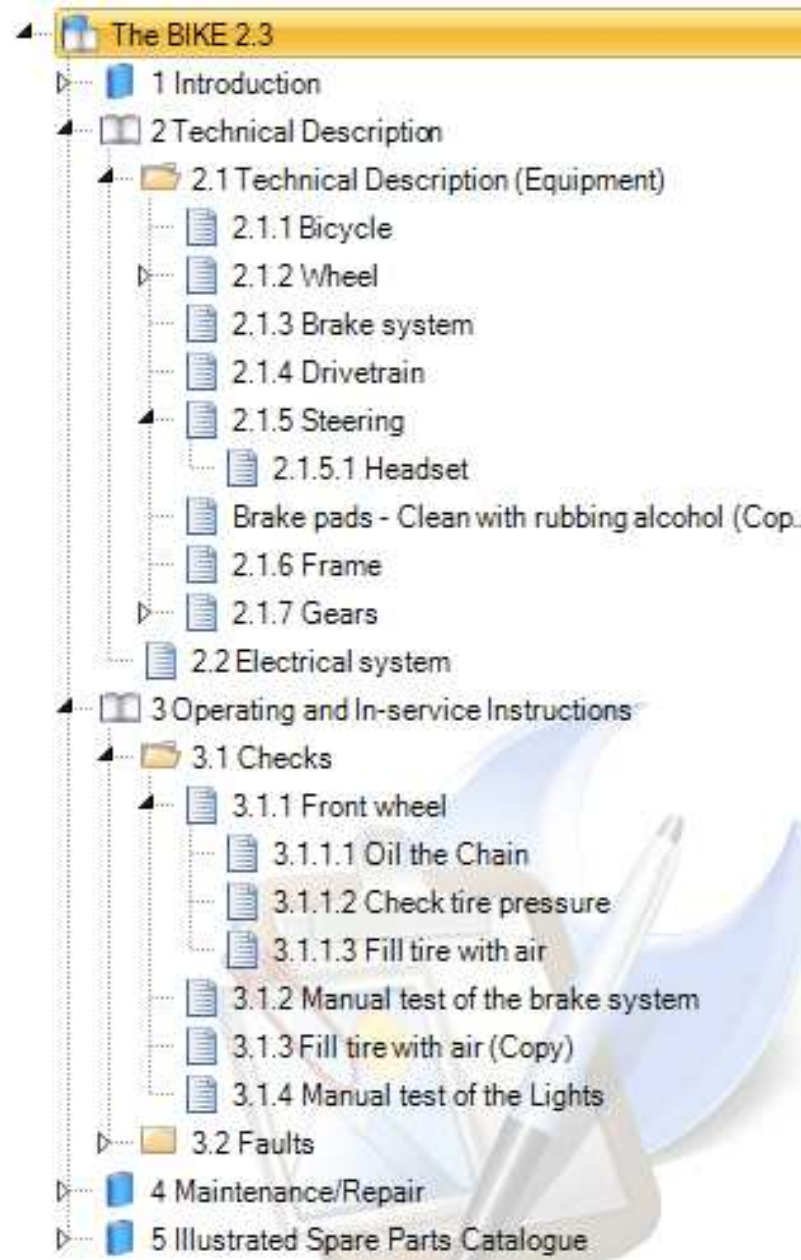
Ausgabedatum Ausgabeformat In Work

Verantwortlichkeiten

Verantw. Firma Durchf. Firma

Verantw. Person Durchf. Person

Creating Manual



Linking

S1000D



ATA iSpec 2200





Conclusion

Conclusion

Transformation

- ☾ Easier for authoring people (1 standard)
- ☾ Higher dependency on experts
- ☾ Good for constant environment

Co-existence

- ☾ Higher demand for authoring people
- ☾ Lower dependency on experts
- ☾ Good for non-constant environment



Thank you for your attention!

Спасибо за внимание!