

# **BEDIFFERENT**

ACE GERMANY



# Aras Requirements Management

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Rob McAveney

Director of Product Management

Aras Corp



# Why Manage Requirements?



## ▶ Requirements are

- the voice of your customer
- the building blocks of your products
- verification that you are building what you intended to build
- valuable descriptions of your design and quality goals
- **YOUR MOST IMPORTANT IP ASSET**

## ▶ Without requirements

- how do you know your product meets your customers' needs?
- how do you verify you didn't miss something important?
- **YOU'RE JUST GUESSING**

# Key Elements of RM



## ▶ **Validation: are we building the correct product?**

- Have we listened to our customers, and captured their needs?
- Are we building what's ideal for the market?

## ▶ **Traceability: are we building the product correctly?**

- Have we forgotten anything?
- Are my products/parts/documents satisfying my requirements?

## ▶ **Version Control: are we still building the correct product?**

- Close the loop – validate with our customers that we are meeting their needs
- See how our requirements have historically evolved

# Why build RM into PLM?



- ▶ **Requirements are the backbone of your product development efforts**
  - Why track the “why” separate from the “who”, “what”, ...?
- ▶ **Requirements apply across the entire product lifecycle**
- ▶ **Changes in requirements directly impact everything else you do in PLM**
- ▶ **Integrating separate RM and PLM systems is difficult**
  - Virtually impossible to achieve the same level of interactivity
- ▶ **It's a natural fit**
  - Workflow, change control, permissions, life cycles, etc. can all be extended to include requirements

# Requirements Documents

DOCUMENT NUMBER: 4131 REVISION: A		TITLE: PRODUCT REQUIREMENTS STATE: DRAFT					
1	REQ No: 121 REVISION: A STATE: DRAFT	Introduction					
1.1	REQ No: 164 REVISION: B STATE: RELEASED	This document details the acceptance standards for the electronics assembly and its components, including functional requirements, test standards,					
1.2	REQ No: 187 REVISION: B STATE: DRAFT	References: <a href="#">•DEF STAN 59-48</a>					
1.3	REQ No: 212 REVISION: B STATE: DRAFT	Operation Conditions					
1.3.1	REQ No: 214 REVISION: B STATE: DRAFT	The product must operate under the following conditions:					
		Temperature	<table border="1"> <tr> <td>Lower Limit</td> <td>Upper Limit</td> </tr> <tr> <td>-10° C</td> <td>60° C</td> </tr> </table>	Lower Limit	Upper Limit	-10° C	60° C
Lower Limit	Upper Limit						
-10° C	60° C						

} Document Header

- Identifying info
- Revision
- Status

} Content

- Text
- Links
- Images
- Tables

} Chapters

- Hierarchical numbering

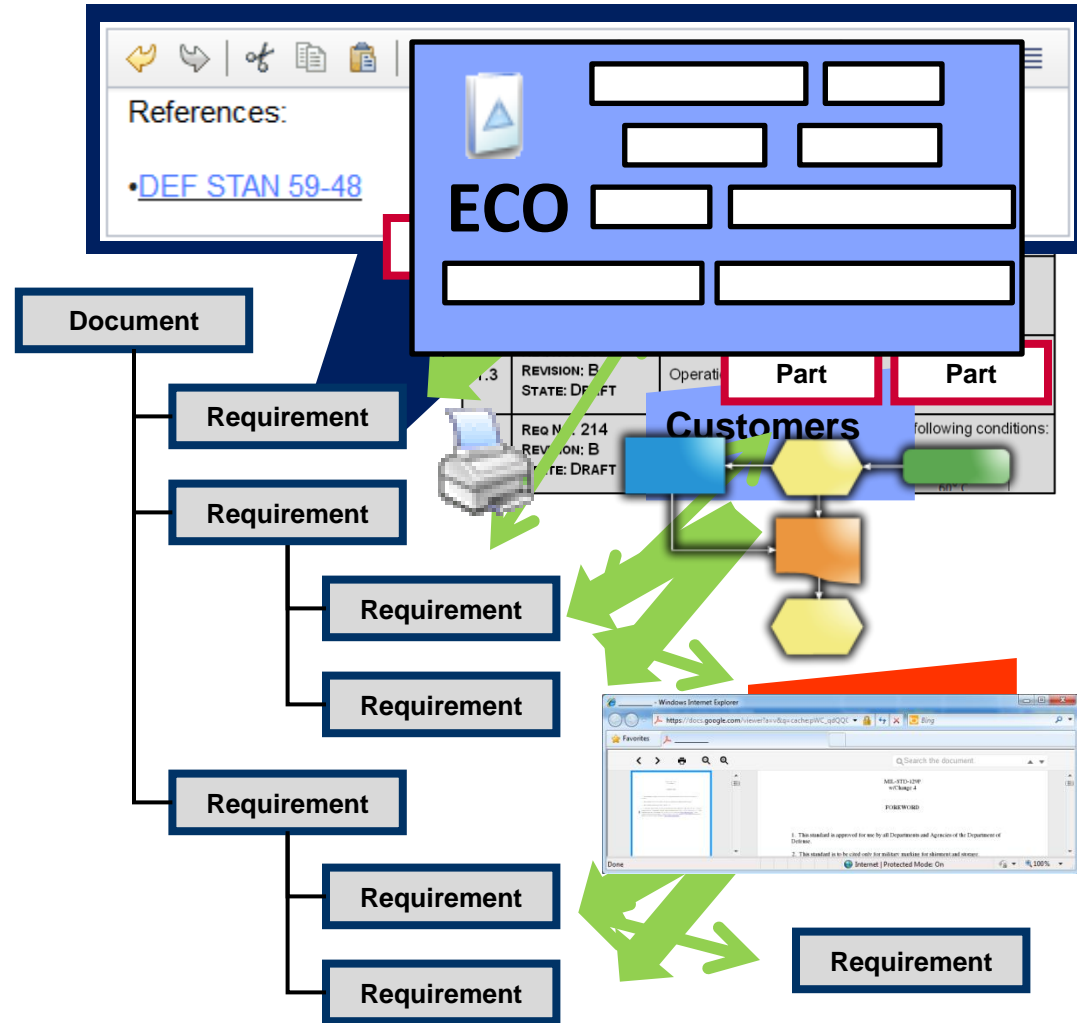
} Requirement Headers

- Requirement Number
- Individual Revision & Status

# Aras RM Goals



- ▶ Gather requirements from multiple sources, including customers, regulatory standards and market research
- ▶ Author requirements documents using a rich user interface
- ▶ Link requirements to parts, files, web resources and other requirements
- ▶ Control the requirements configuration using engineering change workflows
- ▶ Publish fully formatted requirements documents



# Aras RM Additional Features



http://demo.aras.com/ - Requirement Document - B3D4DAB49F534556B9371413B5358D9F - Windows Internet Explorer

File Edit Views Search Actions Reports Tools Help

Requirement Document Number Rev Status  
 Server Assigned [ ] [ ] [ ]  
 Title  
 Multi Color Pen  
 Managed By: Innovator Admin Owned By: Innovator Admin  
 Created By:

Content Extended Content Files

**Requirements of "Multi Color Pen"**

Item Nr	Chapter	Titel/ Description
REQ-000000001	1	PRODUCT DESCRIPTION
REQ-000000002	1.1	Purpose The purpose of this document is to provide the system
REQ-000000003	1.2	System Boundaries The system manufacturing cost should be les than \$4.
REQ-000000004	1.3	System Functions It shall writes using any of the four color pens (Red, Green, Blue, and Black), or by using a mechanical pencil.
REQ-000000005	2	References
		Reference Sheet
		Type: Adult Use , Overall Length: 200 mm
		Colors:
		Black
		Blue
		White
REQ-000000006	2.1	

**Edit Record**

Chapter: 1.3  
 Related Title: System Functions

Related Text:  
 It shall writes using any of the four color pens (Red, Green, Blue, and Black), or by using a mechanical pencil. It shall have an eraser to ease the pencil markings.

Path:

Classification: Text  
 Category: Configuration  
 Complexity: High  
 Risk: High  
 Priority: Critical

Created by: Innovator Admin (user)  
 Owned by: Innovator Admin (user)

Submit Cancel



# Aras RM Benefits Summary



## ▶ Achieve real Requirements Management

- Requirements validation, traceability and version control
- Effectively track both individual requirements and documents

## ▶ Truly integrated Requirements and PLM

- Built from the ground up using Aras technology
- Reuse your existing workflows, change forms and permissions
- Easily link requirements to the

## ▶ Unparalleled ease of use

- Rich, web-based authoring environment
- Easily create requirements structure and build documents
- Directly publish fully formatted requirements documents

# Product Availability



- ▶ **Pre-release available now (upon request) for demonstrations and evaluations**
- ▶ **Full release targeted for late Q4, 2012**
- ▶ **Available exclusively to Aras Subscribers**
- ▶ **Follow-on releases planned for 2013**
- ▶ **Future Features to include:**
  - Trace matrix capabilities
  - Integrated change management
  - Interactive Microsoft Word integration
  - Requirements reuse and derivation
  - Customer/supplier portals

## ACE Germany

# Questions?

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