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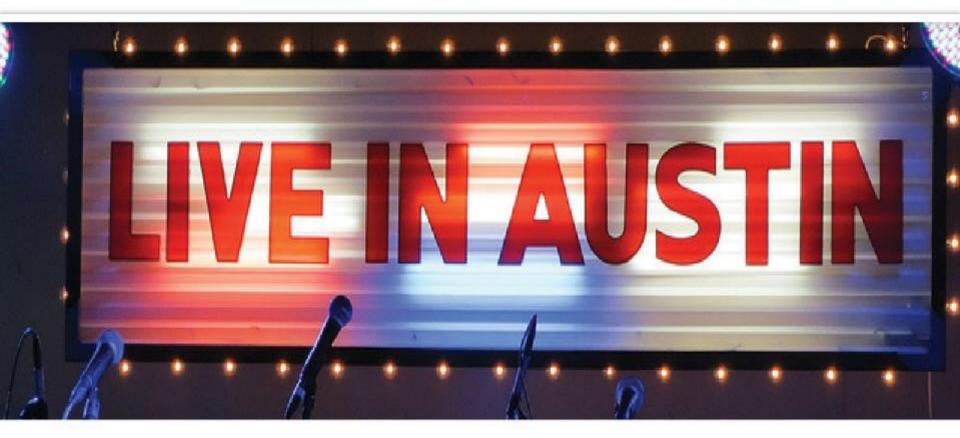
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ANALYSIS

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Introduction to Packaging Specifications in SAP



- Introduction
- Packaging Specifications and SAP PLM
 - Specification Management
 - Document Management System (DMS)
- Workflow Overview
- Demo
- Q&A

Introduction

What We Do

At Linx/AS, we help customers get the most out of their investment in the SAP platform.

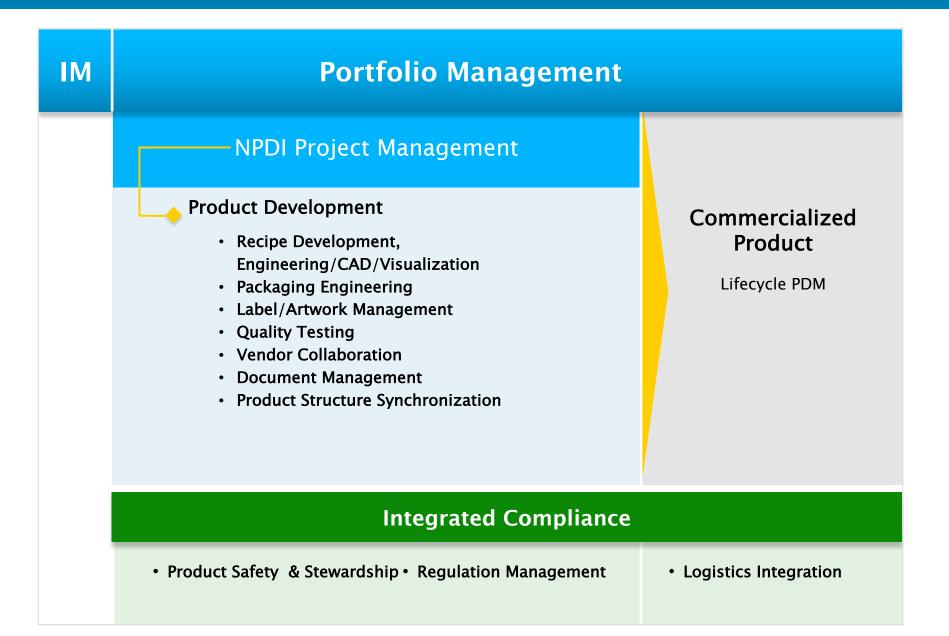
Our success lies in fully understanding the people and processes that drive your business. Only then can we apply our indepth technical knowledge to design and deliver the right solution.

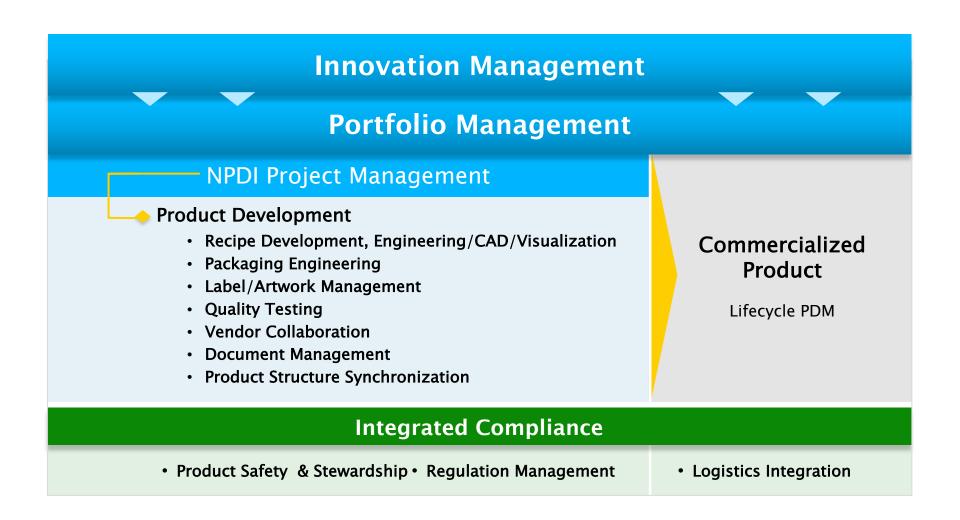
From streamlining product development to improving corporate sustainability to giving your users access to SAP when, where, and how they want it—we make SAP run like you' ve never seen.

- SAP Consulting for Product Lifecycle Management (PLM)
- SAP Consulting for Environment, Health & Safety Management (EHSM)
- SAP User Experience (UEx) Consulting
- Software Innovations









Packaging Specifications in SAP PLM

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- R&D/PLM projects tend to focus on formulation or engineering design (e.g., the food, the smartphone, the fragrance, etc.)
- The tier above, the Finished Product (product + packaging components) is often not discussed/included.
- Packaging specs are overlooked as something SAP PLM can be used to support; companies turn to third-party applications while SAP PLM actually have a very comprehensive toolset.

The Specification Database is the core and shared application for many Specification *Categories* and *Types* in SAP.

Central location and flexible tool that is used to manage property data and other relevant information pertaining to Specifications.



Packaging Specifications

Assembly Specification Packaging Component Structure/Material Specification Engineering Specification Pallet Patterns

Shared database that also supports EH&S – can be implemented independently of each other

Environment, Health & Safety



Substance Specifications

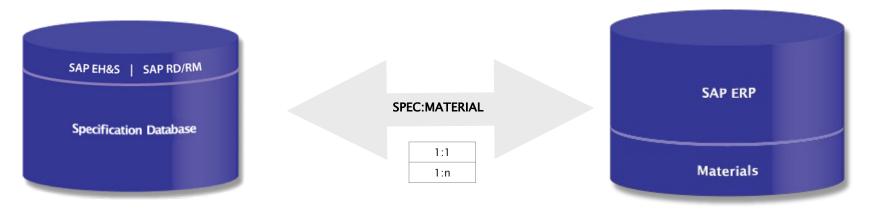
Raw Material / Ingredient Product Specification Finished Product Specification



Specification Categories are a general grouping of specifications based on their use and function within the organization.

Specification Types further classify Specification Categories and provide a more exact grouping of specifications based on their use and function within the organization. Manage all physical properties, dimensions, approvals, client specific characteristics

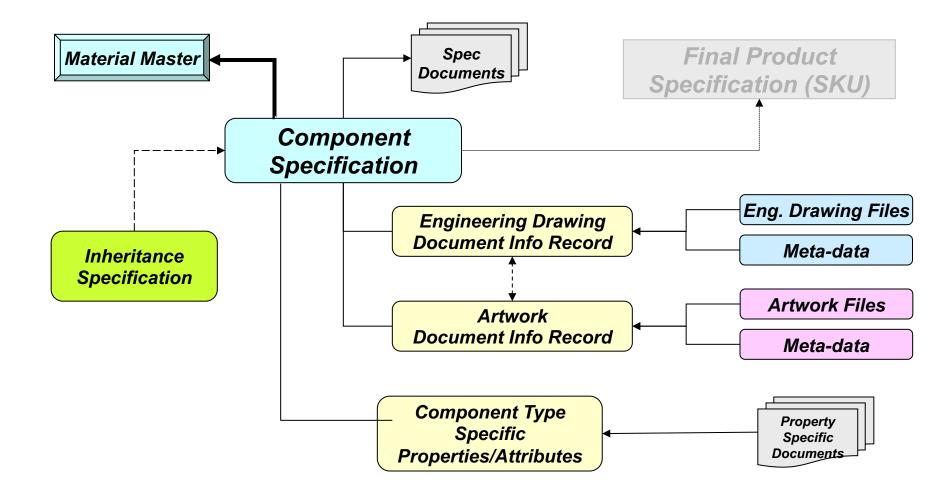
Manage all logistics, financial and business data for finished products, packaging components, intermediates, etc..

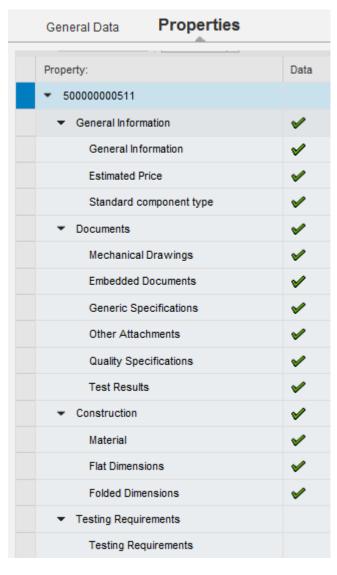




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		RESTRICTIONS	Part <
		IDENTIFIERS	Packaging Spec. <
		REFERENCES	Substance 🖣
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Lead (PPM)			

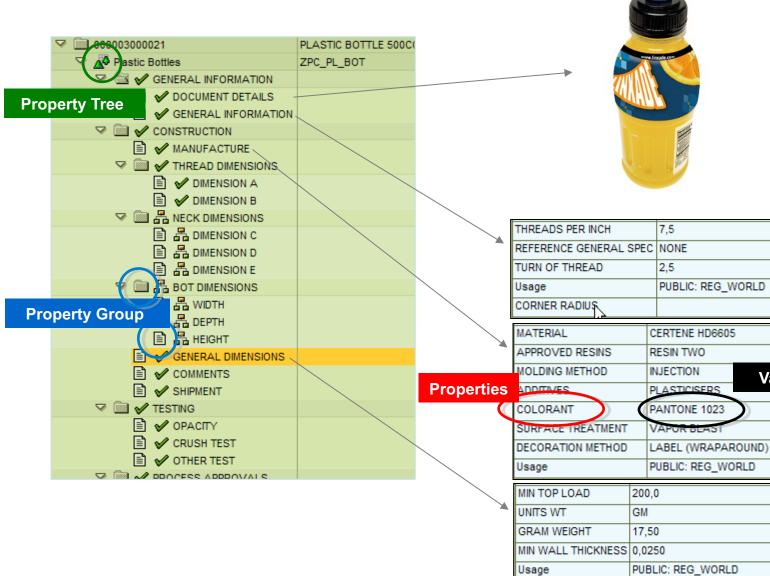
MATERIAL	
Finished Good (SKU)	INVENTORY
 Product Material 	MRP
 Part Material 	SALES
Packaging Material	
Trading Good	





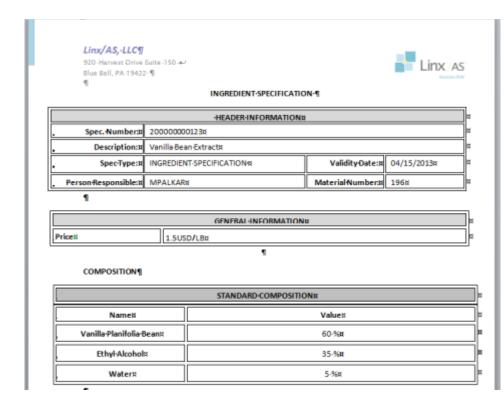
The attributes or detailed data for a specific specification types is stored in the Property Tree:

- Contains numeric, text, phrase based data
- Different types of compositional breakdowns (i.e. component list, regulated substances, etc.)
- Flexible can be configured to capture client specific data requirements



Values

- Specification document output report
- SAP Controlled (locked) Microsoft Word-like output from data in specification
- Ability to embed critical documents/images automatically in output document
- Maintains versioning and historical documents
- Ability to compare different versions of documents to trace changes
- Can generate multi-lingual documents



HOW THE CUSTOMER SEES A PRODUCT

HOW SAP SEES A PRODUCT



HOW THE CUSTOMER SEES A PRODUCT

www.linxade.com

CAP_

- Component Spec
- Resin Type
- Dimensions

BOTTLE

- Injection Molding
- Resin Type
- Crush Testing

LABEL ART

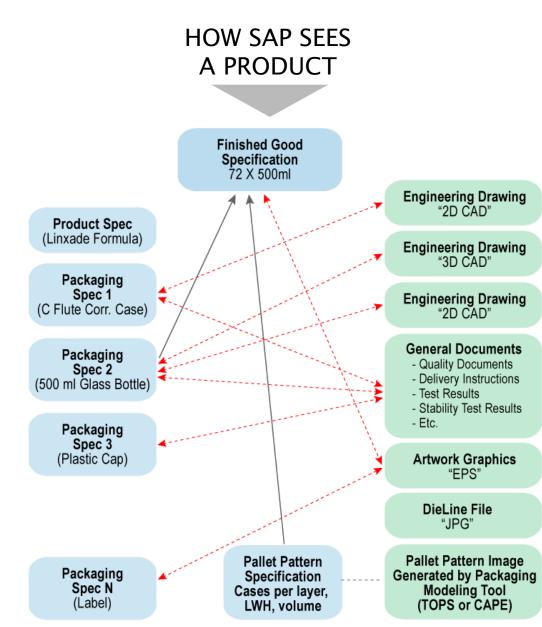
- Material
- Dimensions
- PMS Colors

RECIPE-

- Ingredient Specs
- Intermediate Specs
- Product Specs
- Ingredient Statement

RAW MATERIALS

- Ingredients
- Nutritional Info



Leverage specification hierarchy and inheritance to reduce redundancy in specification design.

Assembly Packaging Specification

72 X 2 oz

Master Case Dimensions Store Ship Units Each Dimensions / Weights

Cases per layer Length Width Height Volume Image (Document)

.

••



Pallet Pattern **Specification**

Cases per layer Length Width Height Volume Image (Document)

Packaging Specification 1 (Corrugated Case)

Master Case Dimensions Store Ship Units Each Dimensions/Weights • •

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Document Management System (DMS)

Document management solution for structured business and technical documents

Comprehensive EDMS solution

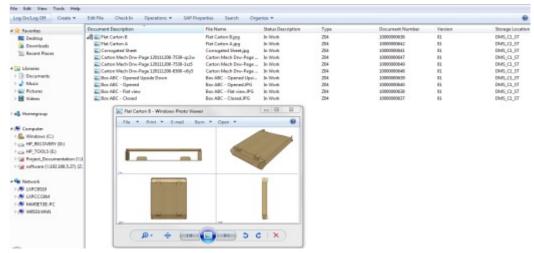
- Versions and Revision Management
- Approval and Change Management
- Workflow
- Distribution (cFolders or Email))
- Check In/Out
- Full Text Retrieval (Searching)
- Various User Interfaces

Logistics/Process integration

- Product Structures
- Project Management
- Logistics

• Open interfaces

- CAD Integration
- Office Integration



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Document Management in SAP

Manage Various Document Types

Used to manage all document types within SAP in a controlled environment:

- Procedures
- CAD Drawings
- Artwork/Labels
- Video Instructions

- **Product Certificates**
- Specification Documents (Created by/from Specification data base)
- SIP/SOP

Application Types

Manage any Windows based document type:

- MS Office Documents
- Artwork like Adobe Illustrator, EPS, etc.
- CAD Drawings (Various)

- Images like JPG, TIFF, GIFF
- 2D and 3D CAD Drawings
- PDF renditions

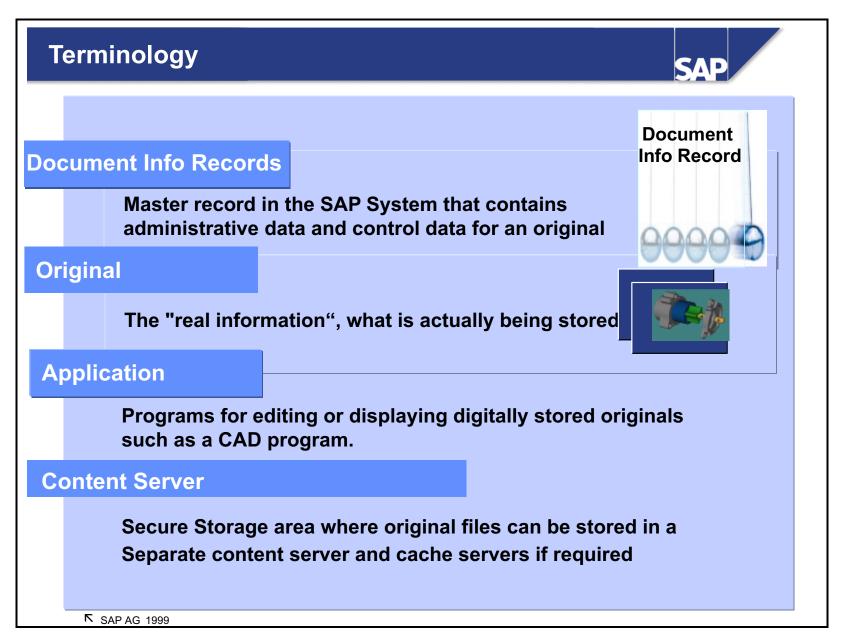
Integrated Viewer and Redlining

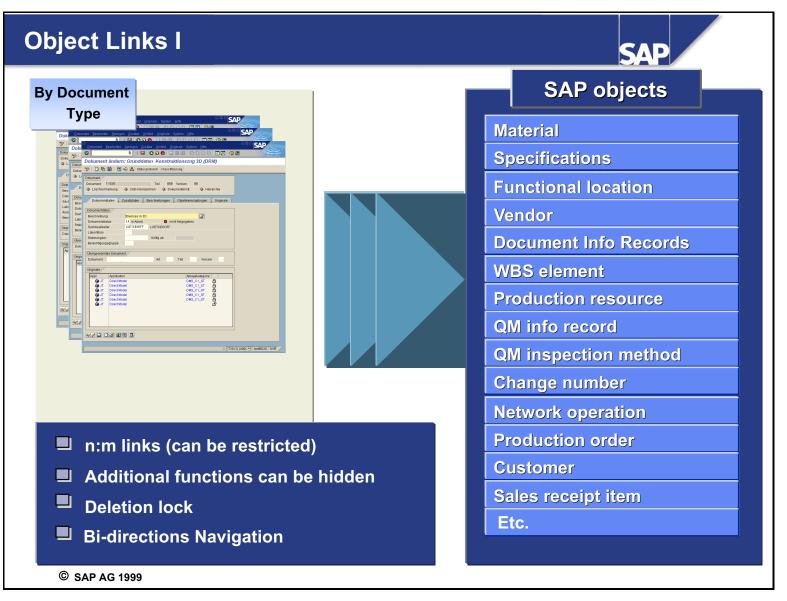
Light weight Right Hemisphere Viewer allows viewing/redline and markup of multiple formats including:

• 2D and 3D CAD Models

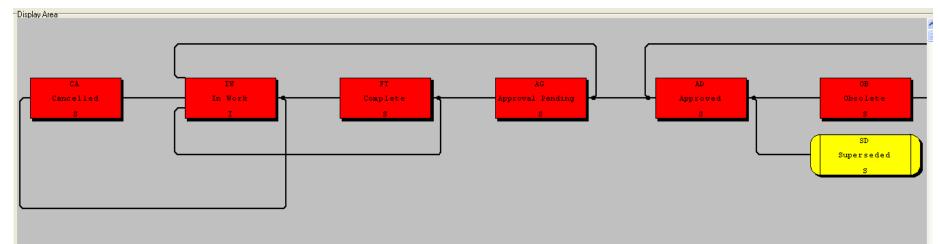
• JPEG, TIFF, GIF

Document Management in SAP





- Manage life cycle of documents using status management
- Status networks unique by document type
- Upon approval of a document, the document is generally released for all users with appropriate authorizations
- Status protects the document against any further changes
- Status can be set manually or controlled via Workflow
- All changes on documents are logged by the system (Audit Log)
- Support Digital Signatures by Document Type and Status triggered by status change or Workflow
- Authorizations defined by document type, status and other attributes



Workflow Overview

SAP offers different options for executing Workflows, which can be used to support:

- Notifications to pass Specification or documents to various users/departments (Informal Notifications)
- Notifications to others to add or maintain data to Specification or attach a document (Collaborative Workflow)
- Workflow to users to review / approve a Specification or document (Approval Workflows)

The complexity of the business requirements will drive the type of solution required by the design. Options are:

- 1. Process Routes which are ad-hoc workflows/notifications associated with a Specifications, Documents or Change Records
- 2. Use SAP Business Workflow solution to develop more complex and powerful workflow processes to support Collaborative Design and Approvals

- ۲ **Process Routes Embedded ad-hoc** workflow functionality of many SAP PLM objects
- **Define individual** ad-hoc workflows or load from workflow templates as an end user
- **Notifies recipient** of task to complete

• Users can be added in parallel or sequentially



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Complex Workflow

Workflow Accelerator (Specifications)

Packaging Spec - Bag 50000000377 / Purchasing / A - Approval Request without DS														
Actions														
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	20		Packaging Engin	eer	User	Nico Bonth	uys	A - Approval Request with		Approved	 ✓ 			
30 Purchasing User					Nico Bonth	uys	A - Reg Approval Request without DS							

Option 2: Workflow

Workflow Accelerator (DMS)

Artwork Z02/1000000524/03/000 - Marketing - A - Approval Request

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Initiator Note
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Process Routes are straightforward & simple, but...

- Process Routes often are not sophisticated enough to handle complexities of product development processes– e.g., rejections within the workflow stream
- User experience not optimal. Often multiple clicks/screens to accomplish simple task.

SAP Workflow is robust, but...

- Design/implementation/maintenance is complex and costly
- Usability remains a challenge
- There is a limited library of objects (process PLM)

• DEMO



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