

# Danfoss goes iiRDS

Moving to a standard-based metadata model  
– the journey continues

# Agenda

Introduction: Danfoss and parson

Recap of last year's presentation

Project implementation – iiRDS in action

Future outlook

Questions?

# Introduction

Danfoss and parson

# Danfoss in brief

We aspire to be the leading technology partner for our customers who want to decarbonize through energy efficiency, machine productivity, low emissions, and electrification.

## Employees worldwide

**41,000+** Results are created by people

## Global footprint

**100+** factories close to our customers and partners

## Worldwide sales

Sales in more than

**100**  
countries

The Americas

**38%**

Europe

**40%**

Asia

**22%**

## Business segments

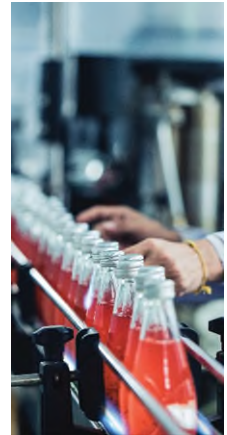
with global leading positions



Danfoss  
Power Solutions



Danfoss  
Climate Solutions



Danfoss  
Power Electronics  
and Drives



#### DrivePro® Lifecycle Services

DrivePro® Lifecycle Services  
DrivePro® Lifecycle Services Portfolio



#### Low-voltage drives

IC7 drives  
VLT® drives  
VACON® drives  
IC2 drives  
VLT® and VACON® legacy drives  
Options



#### Decentral drives

VLT® decentral drives  
VACON® decentral drives  
Legacy decentral drives



#### System modules

IC7 system modules  
VACON® system modules



#### Enclosed drives

VACON® drives



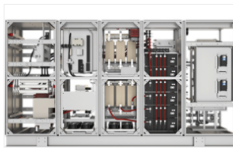
#### Power options

Filters  
Legacy filters



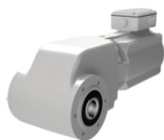
#### Motion control and servo drives

VLT® FlexMotion™ drives  
Legacy drives



#### Medium-voltage drives

VACON® drives



#### Gear motors

VLT® gear motors



#### Soft starters

VLT® soft starters  
VLT® legacy soft starters



#### Software tools

MyDrive® Suite

# Danfoss Power Electronics and Drives Product Portfolio

- Electric and energy efficient solutions to help decarbonize any industry.
- Industries:
  - HVAC
  - Water treatment
  - Energy
  - Marine and offshore
  - Mining and minerals
  - Food and beverage
  - Heavy industries

# Holger Thater

Electrical engineer & Technical Communication professional since 11/1990

Senior Manager Technical Communication

Danfoss Power Electronics A/S, Gråsten, Denmark (since 11/2014)

Main responsibilities:

- Team lead for global technical communication team of 14  
Team tasks:
  - Creating technical product information in English master language for all product lines
  - Handling translations in up to 29 languages
  - Terminology Management
  - Release of documents to company website & product store
  - Make technical product information available on digital customer channels
- Member of the [Digital Data Chain Consortium](#)
- Vice-president tekem Danmark



[Holger Thater | LinkedIn](#)

# Frank Ralf

Senior Technical Consultant for parson AG since 2014

## Focus

- Information architecture
- Metadata modeling
- Optimization of documentation workflows
- DITA authoring environments

## Contact

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[LinkedIn](#)





**parson**  
we create knowledge

## Experts for intelligent content and information architecture

- ❖ Intelligent content for products and services
- ❖ Information management systems
- ❖ Automation of content processes

[www.parson-europe.com](http://www.parson-europe.com)

- ❖ iiRDS Consortium and Working Group Member
- ❖ Certified iiRDS Consultants

[www.iirds.org](http://www.iirds.org)





## parson AG – Who we are



- ❖ Founded by  
Ulrike Parson in 2006



- ❖ **Hamburg**
- ❖ Berlin, Potsdam
- ❖ Freiburg
- ❖ Hildesheim, Bremen



- ❖ 14 technical communicators  
and consultants
- ❖ 4 administrators

# Recap of last year's presentation

## Pain points and goal

### Pain points

- **Unspecific**, as manuals are created on product family level
- **Inconsistent user experience**
- **Lack of digital content delivery**
- **Poor findability**



©Anatoly Maslennikov – Fotolia.com

### Goal

**Fast** and **easy** access to **relevant** technical product information for our customers in **standard formats**.



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# CCMS history at Danfoss

Teamcenter (2009-2014)

TechPub Studio (2014-2023)

IXIA CCMS (2023-)



# The road to DITA

Teamcenter  
CMS

- Publication-oriented authoring using DocBook structure
- Inconsistent versioning & baselining
- Basic metadata on publication level, no metadata for external use
- Time demanding search procedure (difficult reuse)

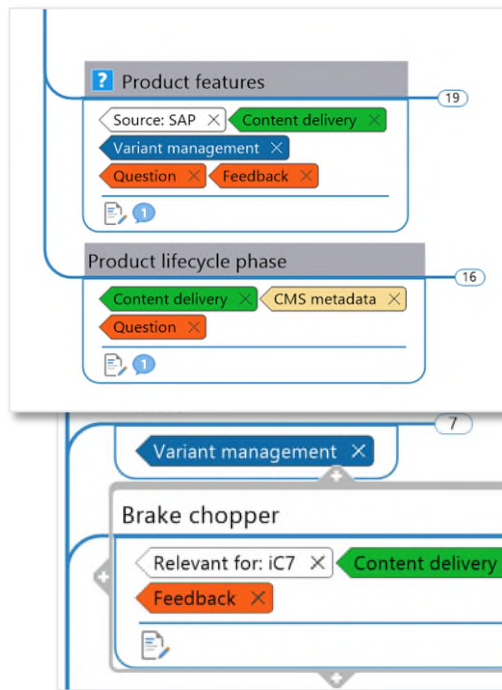
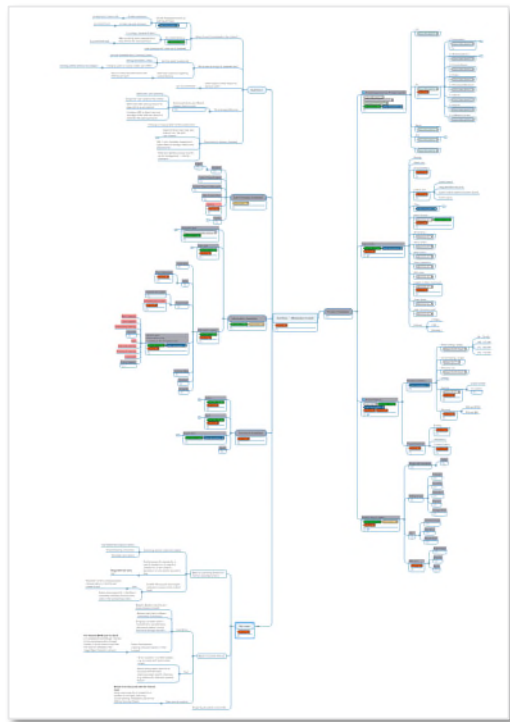
TechPub  
Studio®

- Modular topic-based authoring with DITA structure
- Metadata on bookmap and topic level
- Consistent versioning and baselining
- Easy search procedure using metadata (increased reuse)
- Client-server based architecture
- Difficult to integrate in our digital content delivery

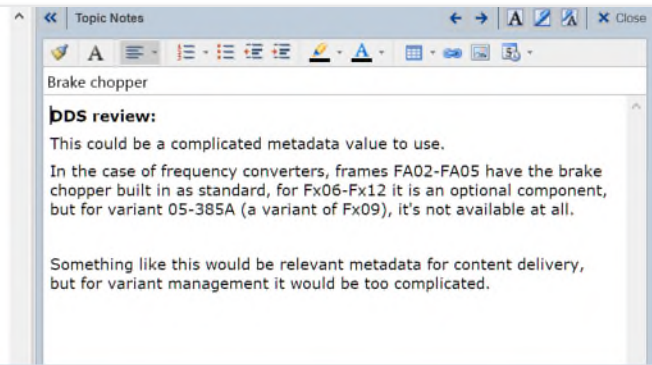
MadCap  
IXIA CCMS

- Modular topic-based authoring with DITA structure
- Metadata based on iIRDS
- Consistent content structure organization using DRM and libraries
- Enabling conditional profiling
- Enabling easier integration in our digital content delivery strategy

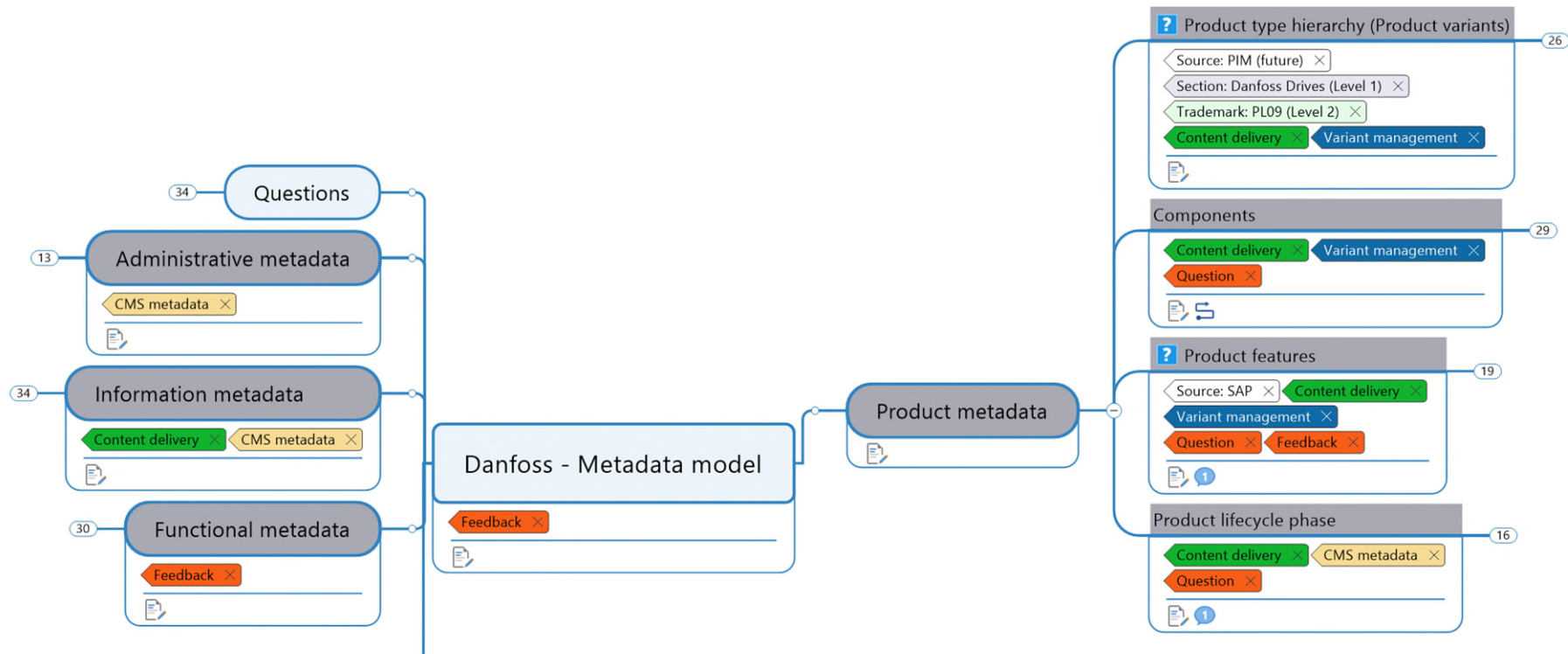
# Creating a metadata model based on iiRDS



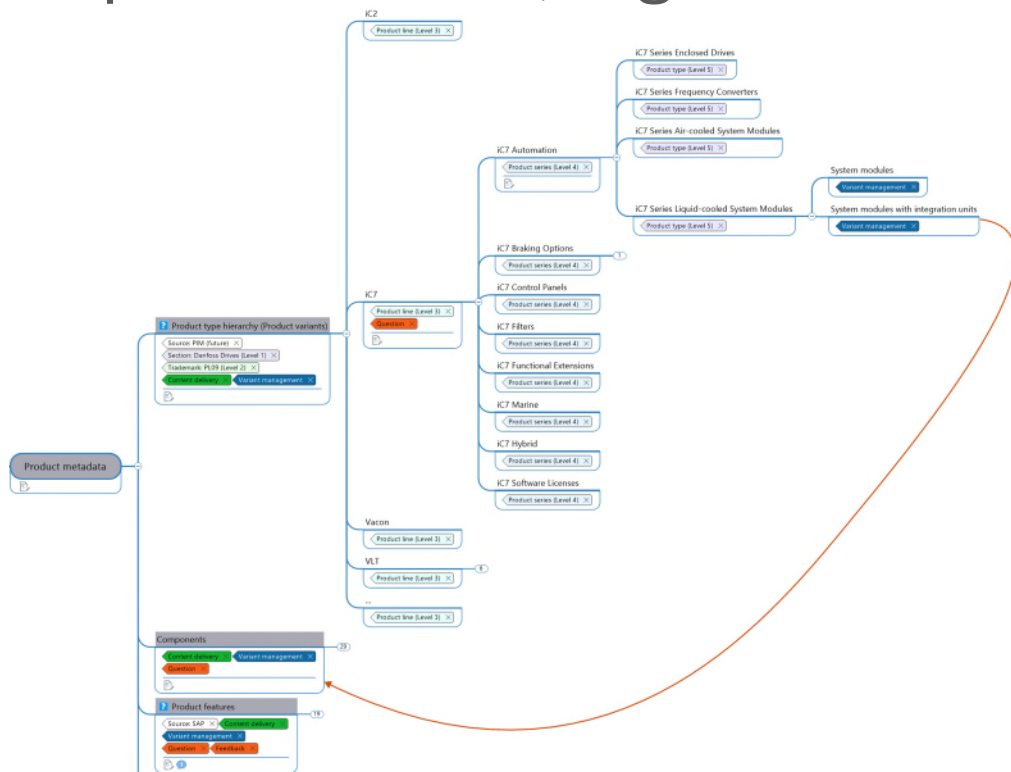
- Reusing as much iiRDS attributes as possible (grey boxes)
- Defining use cases (e.g. variant management)



## Metadata, relevant for variant management and content delivery



# Product variants for product lines, e.g. iC7





# iiRDS in action

Implementing the metadata model

## From theory to practice – Project phase 2

- Joint iiRDS project of Danfoss and parson
- How we worked together
- Implementation decisions

### Examples

- Mapping iiRDS to CCMS features
- iiRDS product property
- iiRDS product type hierarchy
- Implementation in IXIA DRM (Dynamic Release Management)

## parson's contribution

### Method

- Workshops and interactive training for Danfoss
  - Knowledge transfer
  - Enable Danfoss to make implementation changes themselves

### Topics

- Fine-tuning the DITA specialization (DITA-OT plugin)
  - Rename profiling attribute in line with iiRDS naming  
`product-characteristic > product-property`
- Support with implementation in IXIA CCMS
  - Concept for product and library hierarchy

# General implementation decisions

## Which parts of the metadata model should be implemented?

### Implement



- `product-type-hierarchy`
- `rename product-characteristic`  
    > `product-property`

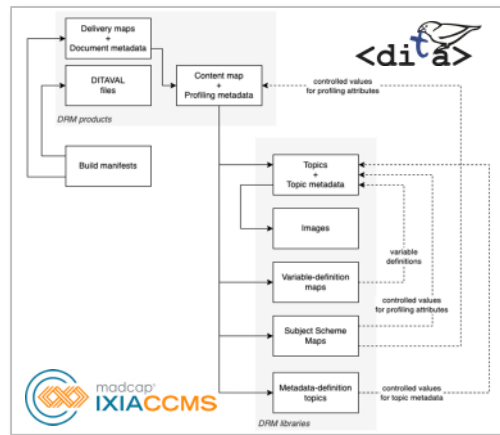
### Implement not yet



- `product-components`
- `product-functions`
- `product-lifecycle-phase`

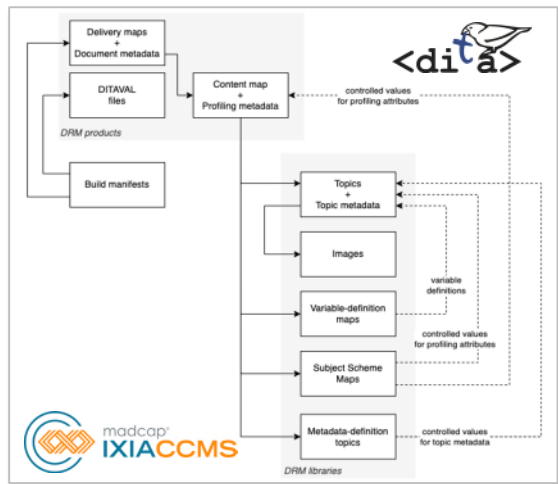
## Where to implement the metadata model?

- As metadata in the DITA content (specialized DITA elements and attributes)
- Using specific features of IXIA CCMS



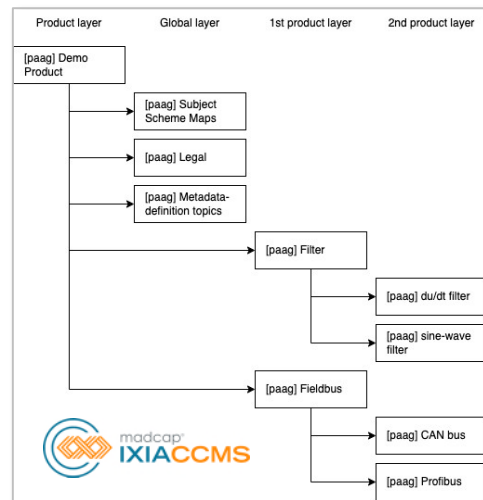
# Where to implement?

Implementation of metadata as **DITA elements and attributes**.



Implementing part of the iiRDS-based metadata model with specific **features of IXIA CCMS**.

- DRM = Dynamic Release Management
- Libraries
- Taxonomies

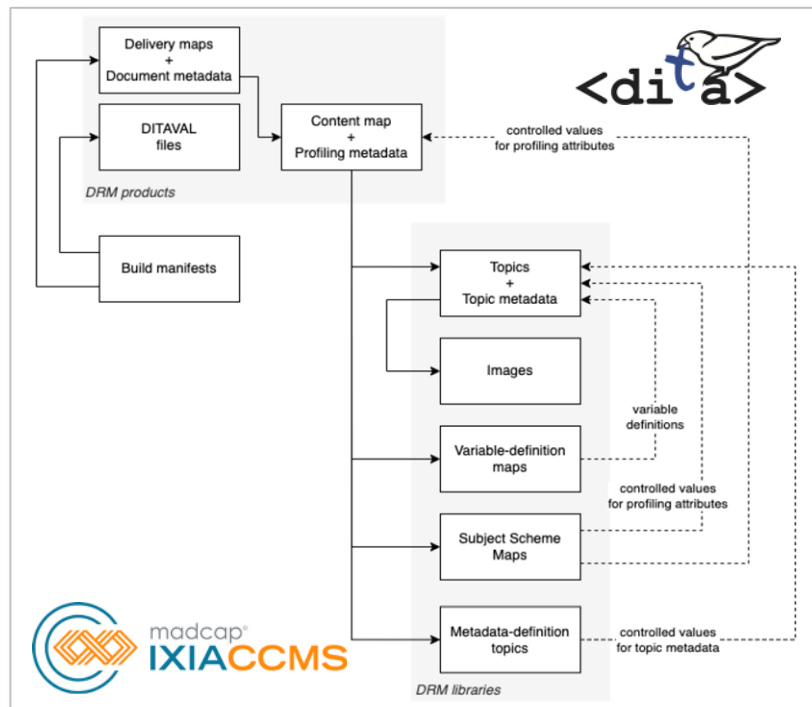


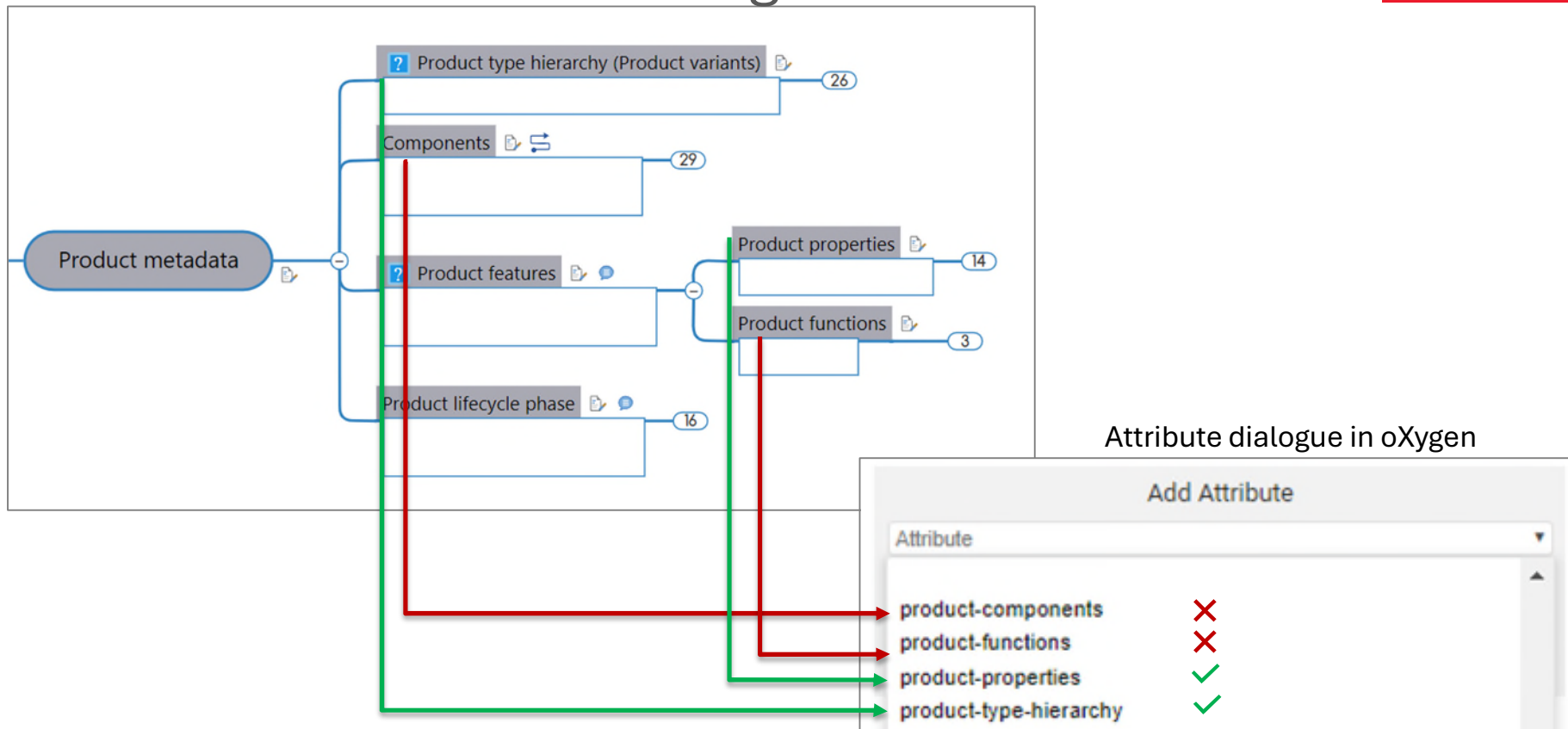
# Mapping iiRDS to CCMS features

# DITA implementation – Profiling attributes

## 4 new profiling attributes for Danfoss

- `@product-type-hierarchy`
  - `@product-components`
  - `@product-property`
  - `@product-functions`
- 
- Allowed values managed via DITA Subject Scheme Maps
  - Separate `@product-type-hierarchy` for each product series
  - Stored in IXIA DRM libraries





Attribute dialogue in oXygen



# DITA implementation – Elements



One specialized "Delivery" map

```
delivery-map-dds:
  document-title-dds,
  document-meta-dds,
  keydef*,
  topicref*,
  disclaimerref-dds*,
  reltable*
```

```
document-title-dds:
  maintitle-dds,
  subtitle-dds*
```

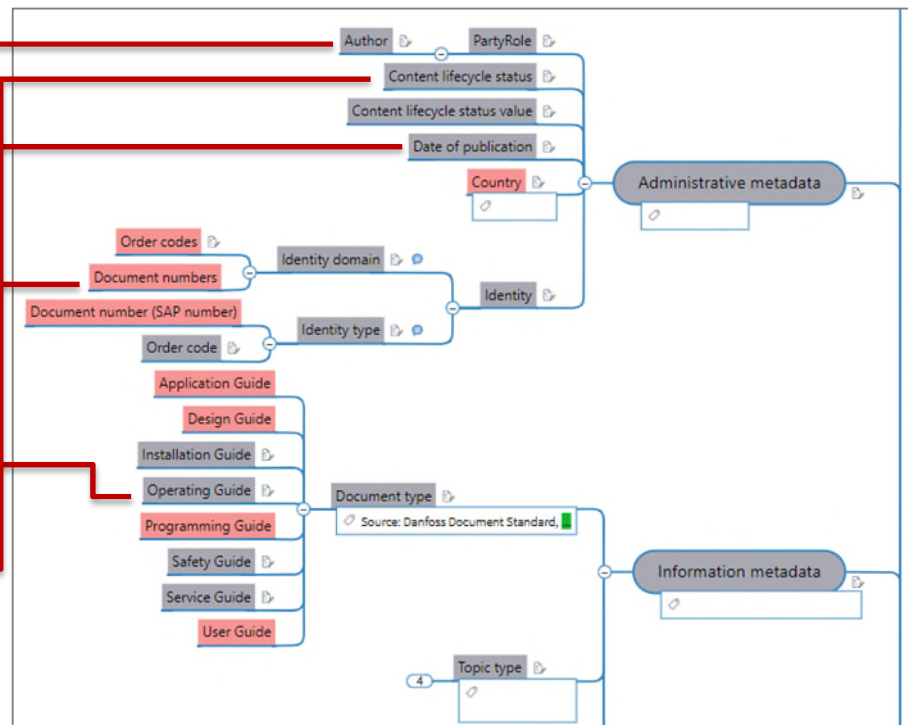
Specialized elements with sub-elements

```
document-meta-dds:
  keywords*,
  othermeta*,
  document-type-dds*,
  document-numbers-dds?,
  cover-image-dds?,
  brand-logo-dds?,
  front-url-dds?,
  (data.elements.incl; |
  foreign.unknown.incl
```

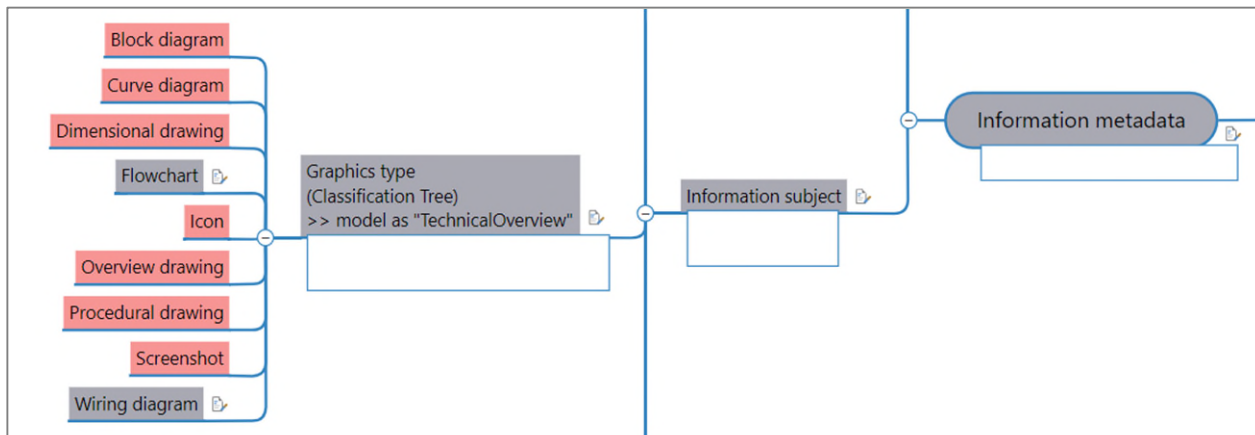
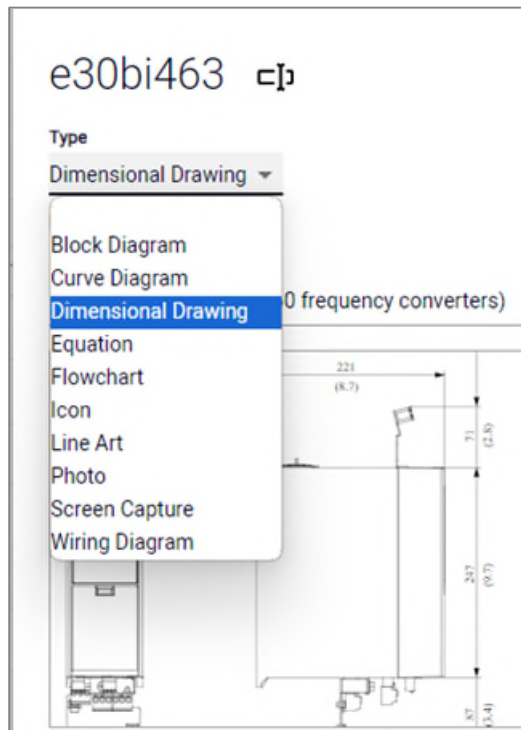
```
event-dds:
  event-type-dds,
  event-code-dds?,
  event-desc-dds
```

```
document-numbers-dds:
  document-set-num-base-dds,
  document-version-dds,
  document-revision-dds,
  region-code-dds,
  m-number-dds,
  r-number-dds,
  master-date-dds
```

Standard <authorinformation> element plus specialized metadata elements aligned with iIRDS represented in a delivery map (specialized map type used as the main map for a publication).



# Graphics types aligned with iiRDS



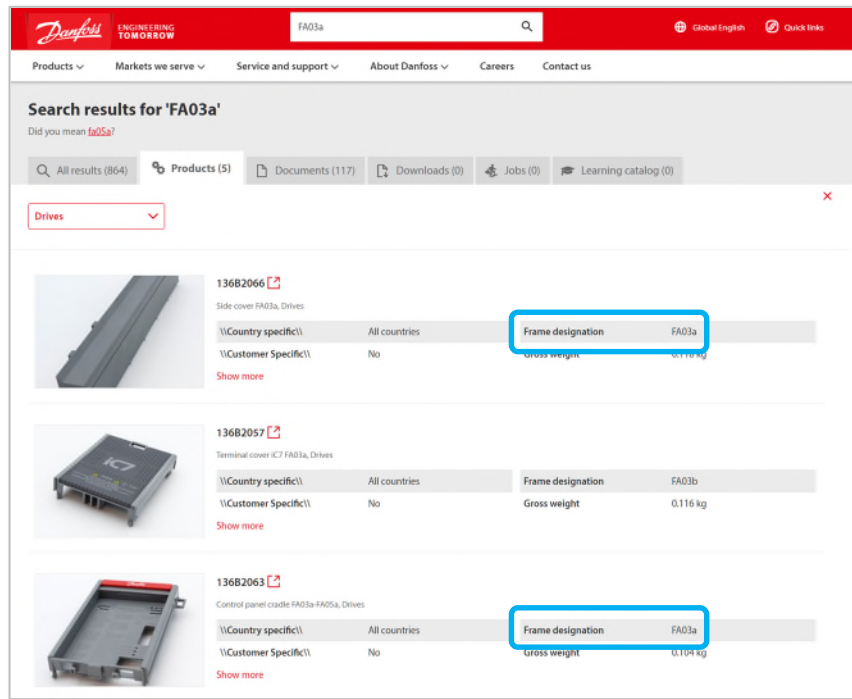
- Drop-down from IXIA for any graphics element
- Specific types defined: some too generic, one removed (Overview drawing)

# iiRDS Product property

Example: Frame size FA03a

## Frame designation FA03a

- Frame designation = frame size
- iiRDS class "Product property"
- DITA profiling attribute product-property (formerly product-characteristic)
- Used with DITAVAL
- Deepest level to use with DITAVAL



The screenshot shows the Danfoss website search results for 'FA03a'. The search bar at the top contains 'FA03a'. Below the search bar, there are tabs for 'All results (864)', 'Products (5)', 'Documents (117)', 'Downloads (0)', 'Jobs (0)', and 'Learning catalog (0)'. The 'Products (5)' tab is selected. A dropdown menu labeled 'Drives' is open. The search results are displayed in a table format. The first row is for '136B2066' (Side cover FA03a, Drives). The second row is for '136B2057' (Terminal cover ICF FA03a, Drives). The third row is for '136B2063' (Control panel cradle FA03a-FA05a, Drives). In each row, the 'Frame designation' is highlighted with a blue box and matches the search term 'FA03a'.

Product ID	Description	Country	Customer Specific	Frame designation	Gross weight
136B2066	Side cover FA03a, Drives	All countries	No	FA03a	0.110 kg
136B2057	Terminal cover ICF FA03a, Drives	All countries	No	FA03b	0.116 kg
136B2063	Control panel cradle FA03a-FA05a, Drives	All countries	No	FA03a	0.104 kg

# iiRDS class "Product property"

## iiRDS class hierarchy

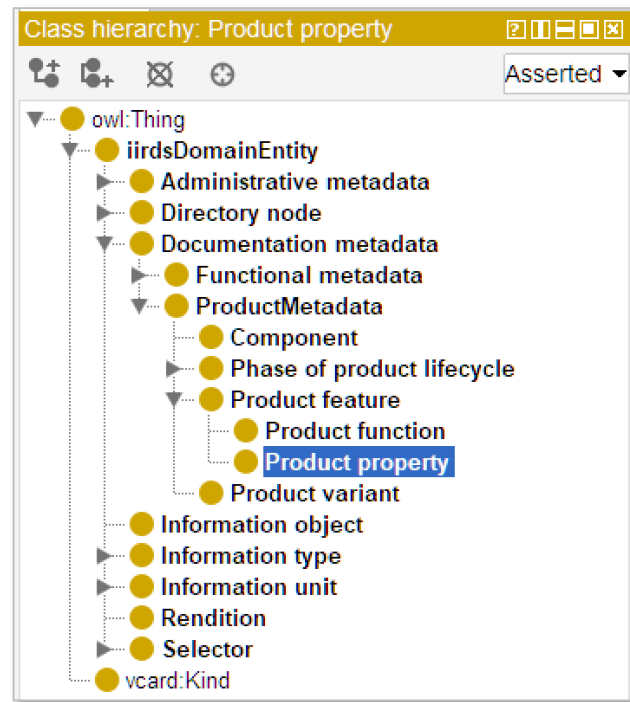
Documentation metadata

Product metadata

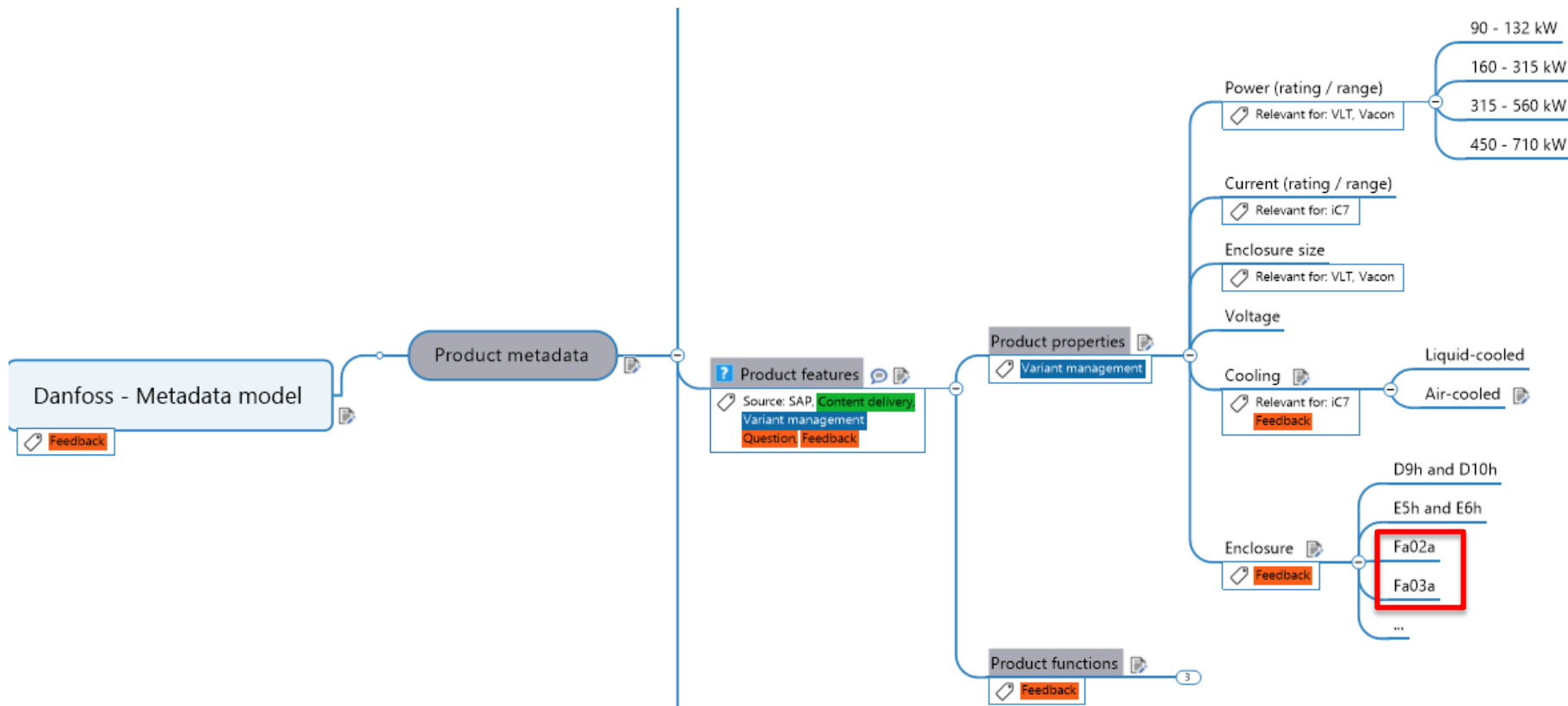
Product feature

Product function

**Product property**



# iiRDS-based Danfoss metadata model



# DITA subject scheme map

**Attribute:** product-property

- Provide controlled attribute values for authors.
- **keys** aligned with code used in other systems (SAP, DAM, PIM). Currently manually maintained; codes will be stable in the future.
- **navtitle** used for product name to make profiling easier for authors.



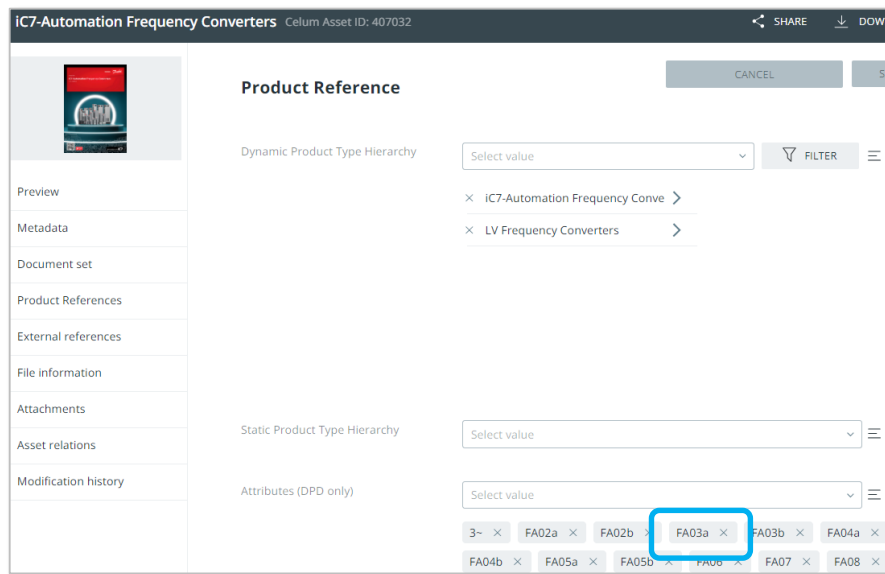


## Values from external systems

# SAP document classification

Technical Literature Properties	
Technical Literature Group	LV Frequency Converters
Technical Literature Series	iC7-Automation Frequency Conve
Technical Literature Type	Design Guide
Technical Literature Option	
Technical Literature No.	M00271
Technical Literature Version	05
Technical Literature Manual No	AJ319739940640en-000501
Technical Literature Market	
Technical Literature Rel. Date	2024-07-12
Frame designation	FA02a
	FA02b
	FA03a
	FA03b
	FA04a
	FA04b
	FA05a
	FA05b
	FA06
	FA07

# Classification in DAM



# Product type hierarchy

Example: VLT<sup>®</sup> Servo Drive System ISD 520

# Product Type Hierarchy in Product Store

Home page > Products > Drives

**Drives**

At Danfoss Drives, you can find electric and energy efficient solutions to help decarbonize any industry. Improve productivity and reduce CO2 footprint in onshore and offshore, mining and minerals, food and beverage, heavy industries, and more. Here you can browse the world's most extensive portfolio of drives, converters, as well as software tools and lifecycle services.

**DrivePro® Lifecycle Services**  
DrivePro® Lifecycle Services  
DrivePro® Lifecycle Services Portfolio

**Low-voltage drives**  
iC7 drives  
VLT® drives  
VACON® drives  
iC2 drives  
VLT® and VACON® legacy drives  
Options

**Decentral drives**  
VLT® decentral drives  
VACON® decentral drives  
Legacy decentral drives

**Enclosed drives**  
VACON® drives

**Power options**  
Filters

**Motion control and servo drives**  
VLT® FlexMotion™ drives

Home page > Products > Drives > Motion control and servo drives

**Motion control and servo drives**  
Select servo drives and motion solutions, designed to meet the requirements of tomorrow's machine architecture, today. Uniquely open, modular, and scalable. You get one system capable of creating a diversity of machine concepts, based on decentral and central servo drives.

VLT® FlexMotion™ drives Legacy drives

**VLT® FlexMotion™ drives**

VLT® Multiaxis Servo Drive MSD S10  
Easily integrate this modular multi-axis servo system with open system architecture into all kinds of high-performance machine architectures.

VLT® FlexMotion™  
The VLT® FlexMotion™ central and decentral servo drive system empowers you to build ultra-flexible machine architectures for food, beverage, packaging, and pharmaceutical industries.

VLT® Integrated Servo Drive ISD® 520  
This high-performance motor integrated servo-drive gives you flexibility in modular machine architectures for demanding applications.

VLT® Decentral Servo Drive DSD S20  
Mount this high-performance decentral servo-drive nearby motors in modular machine architectures for demanding applications.

Home page > Products > Drives > Motion control and servo drives > VLT® FlexMotion™ drives

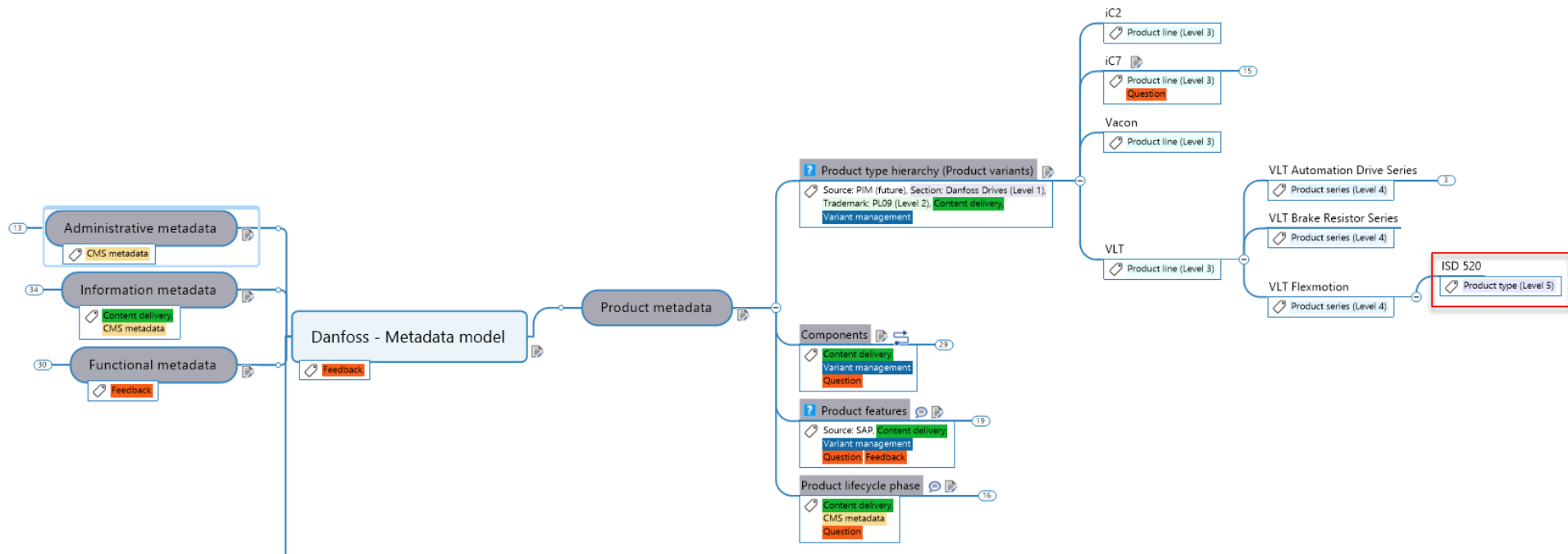
**VLT® Integrated Servo Drive ISD® 520**  
Get a quote

Overview Documents 3D models and drawings Software Related applications

**Decentral servo drive with flexible modularity**  
VLT® Integrated Servo Drive ISD® 520 combines a high-performance decentral servo motion drive with a servo motor in one compact unit. It is ideal for applications such as turntables, labeling, capping, and packaging in food, beverage, pharmaceutical, metal forming, material handling, and textile industries.  
Motion control is integrated into the drive to run the motion sequence independently. This frees up capacity in the central PLC and makes the drive concept very flexible to use. Use ISD® 520 as part of the VLT® FlexMotion™ series concept.

**Fast and fail-safe installation**  
The Plug and Twist hybrid cabling concept, including supply and control voltage as well as functional safety and fieldbus wires, makes the installation fast, easy, fail-safe and cost-efficient. Since multiple decentral drive units can be powered by the combination of just one VLT® Power Supply Module PSM S10 and VLT® Decentral Access Module DAM S10 through simple daisy chain wiring, no distribution boxes are required, and you can reduce cabling to a minimum.

## Metadata, relevant for variant management and content delivery



delivery-map-dds id="bub1593299215053" xml:lang="en-us" document-title-dds lila\_loode="1" maintitle-dds lila\_loode="2" **VLT Servo**

## Drive System ISD 520/DSD 520

maintitle-dds document-title-dds

(Folded document-meta-dds)

- Mapref ISD 520/DSD 520 Variables fkv1693314397555 format="ditamap" keyref="fkv1693314397555" (Folded)
- Mapref Introduction (ISD520/DSD520 OG) mns1693296910027 format="ditamap" keyref="mns1693296910027" (Folded)
- Mapref Safety (ISD520/DSD520 OG) fvx1693303479920 format="ditamap" keyref="fvx1693303479920" (Folded)
- Mapref System Description (ISD520/DSD520 OG) tyh1693317411087 format="ditamap" keyref="tyh1693317411087" (Folded)
- Mapref Mechanical Installation (ISD520/DSD520 OG) oyu1694673343459 format="ditamap" keyref="oyu1694673343459" (Folded)
- Mapref Electrical Installation (ISD520/DSD520 OG) psn1696321196934 format="ditamap" keyref="psn1696321196934" (Folded)
- Mapref Commissioning (ISD520/DSD520 OG) abt1694150658815 format="ditamap" keyref="abt1694150658815" (Folded)
- Mapref Operation (ISD520/DSD520 OG) mpw1694157040058 format="ditamap" keyref="mpw1694157040058" (Folded)
- Mapref Functional Safety Concept (ISD520/DSD520 OG) jwg1694406841405 format="ditamap" keyref="jwg1694406841405" (Folded)
- Mapref Diagnostics (ISD 520/DSD 520 OG) fne1695115000289 format="ditamap" keyref="fne1695115000289" (Folded)
- Mapref Maintenance, Decommissioning, and Disposal (ISD520/DSD520 OG) cml1695279693141 format="ditamap" keyref="cml1695279693141" (Folded)
- Mapref Specifications (ISD520/DSD520 OG) aue1693558254811 format="ditamap" keyref="aue1693558254811" (Folded)
- Mapref DDS Document Types bxy1707384214654 format="ditamap" keyref="bxy1707384214654" (Folded)
- Mapref VLT Motion Drives Product Type Hierarchy qhu1705563088629 format="ditamap" keyref="qhu1705563088629" (Folded)

delivery-map-dds

subjectdef vlt-integrated-gear-dr

(Folded topicmeta)

subjectdef igd510

topicmeta navtitle Navigation Title: VLT Integrated Gear Drive IGD 510 navtitle topicmeta

subjectdef

subjectdef vlt-flexmotion-series

topicmeta navtitle Navigation Title: VLT FlexMotion Series navtitle topicmeta

subjectdef dds510

topicmeta navtitle Navigation Title: VLT Decentral Servo Drive DSD 510 navtitle topicmeta

subjectdef

subjectdef dds520

topicmeta navtitle Navigation Title: VLT Decentral Servo Drive DSD 520 navtitle topicmeta

subjectdef

subjectdef isd510

topicmeta navtitle Navigation Title: VLT Integrated Servo Drive ISD 510 navtitle topicmeta

subjectdef

subjectdef isd520

topicmeta navtitle Navigation Title: VLT Integrated Servo Drive ISD 520 navtitle topicmeta

subjectdef

subjectdef msd510

topicmeta navtitle Navigation Title: VLT Multiaxis Servo Drive MSD 510 navtitle topicmeta

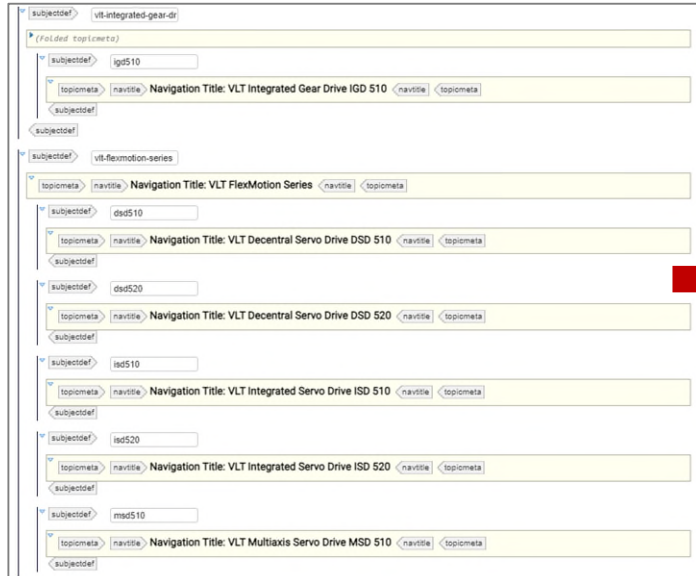
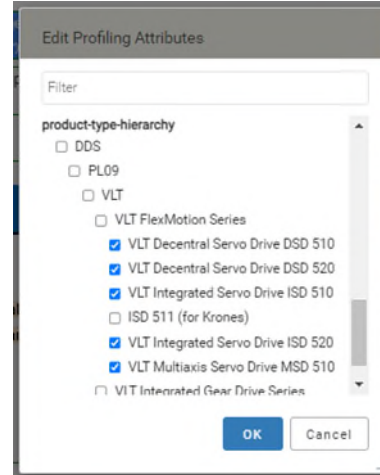
subjectdef

### Attribute: product-type-hierarchy

- keys aligned with code used in other systems
- navtitle used for product name to make profiling easier for writers

### Subject Scheme map

- Product type hierarchy for motion drives
- Enables usage of conditional profiling attributes (using DITAVAL)

## Attribute: product-type-hierarchy

- keys aligned with code used in other systems
- *navtitle* used for product name to make profiling attribute selection easier in the *Edit Profiling Attributes* dialog in Oxygen

P PSM is the abbreviation for Power Supply Module. It is the power supply to the servo system. The PSM 510 supplies a DC power voltage and guarantees high-density output power. The DC-link and 24/48 V DC are distributed via the backlink in the backplates to all system modules. The PSM 510 can be controlled via Ethernet-based fieldbus. (if product-type-hierarchy is 'dse510' or 'dse520' or 'isd510' or 'isd520' or 'msd510') P

P PSM is the abbreviation for Power Supply Module. It is the power supply to the IGD 510 system. The PSM 510 generates a 600 V DC supply and guarantees high-density output power. The PSM 510 can be controlled via Ethernet-based fieldbus. (if product-type-hierarchy is 'igd510') P

# Implementation in IXIA DRM

## Dynamic Release Management

# DRM – Basic concepts

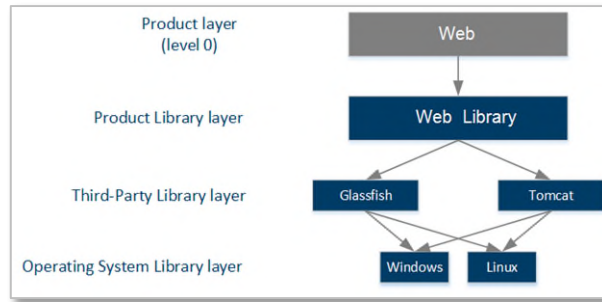
## Products

- Products separate the content into different content sets.
- No reuse between products, only within the same product.
- 3 release management levels:
  - Product (metadata only)
  - Release (with own metadata)
  - Version (content) = Branch



## Libraries

- Libraries are "below" products.
- Libraries can be reused anywhere:
  - by all products
  - between other libraries
- Multi-level libraries provide layers.
- Content can only be reused from the bottom up.





## Product collections

- Split based on product brands: no reuse of product-based information between the different Danfoss Drives product brands for 2 reasons
  - Differences in product features
  - Differences in content lifecycle and content evolution
- Top-level organization for publications
- Content for publications gathered from the library collections

iC[x]

VACON

VLT®

## Library collections for product-specific content

- Slight variation in the library collection design for different product brands based on the product series or product architecture
- Library design decisions based on content type and content reuse potential

### Hardware

- For content about the hardware of Danfoss Drives products
- Separate branches for the different hardware variants of a Drives product

### Software

- For content about software that may be combined with different hardware variants in different publications

### Optional accessories etc.

- For content about optional accessories etc. that are compatible with multiple products within a Drives product brand

### Common brand-specific/product-specific information

- For generic content that can be shared within a product brand or product series

## Library collections for common content

- Common libraries linked to all content collections

### Hazard statements and other legal information

- Common repository for hazard statements and other legally required information
- Aiming for reusable hazard statements and avoiding copies

### Illustrations

- Common repository for illustrations
- Each illustration has a unique identifier that isn't generated by the CMS. Stored in the common repository to avoid the same illustration being uploaded to the CMS twice

### Common DDS product information

- Common repository for content that isn't brand or product-specific, but applies to all (or almost all) Danfoss Drives products
- Product names done as variables to enable reuse.

## Product collection: VLT® Motion Drives

- Top-level organization for publications

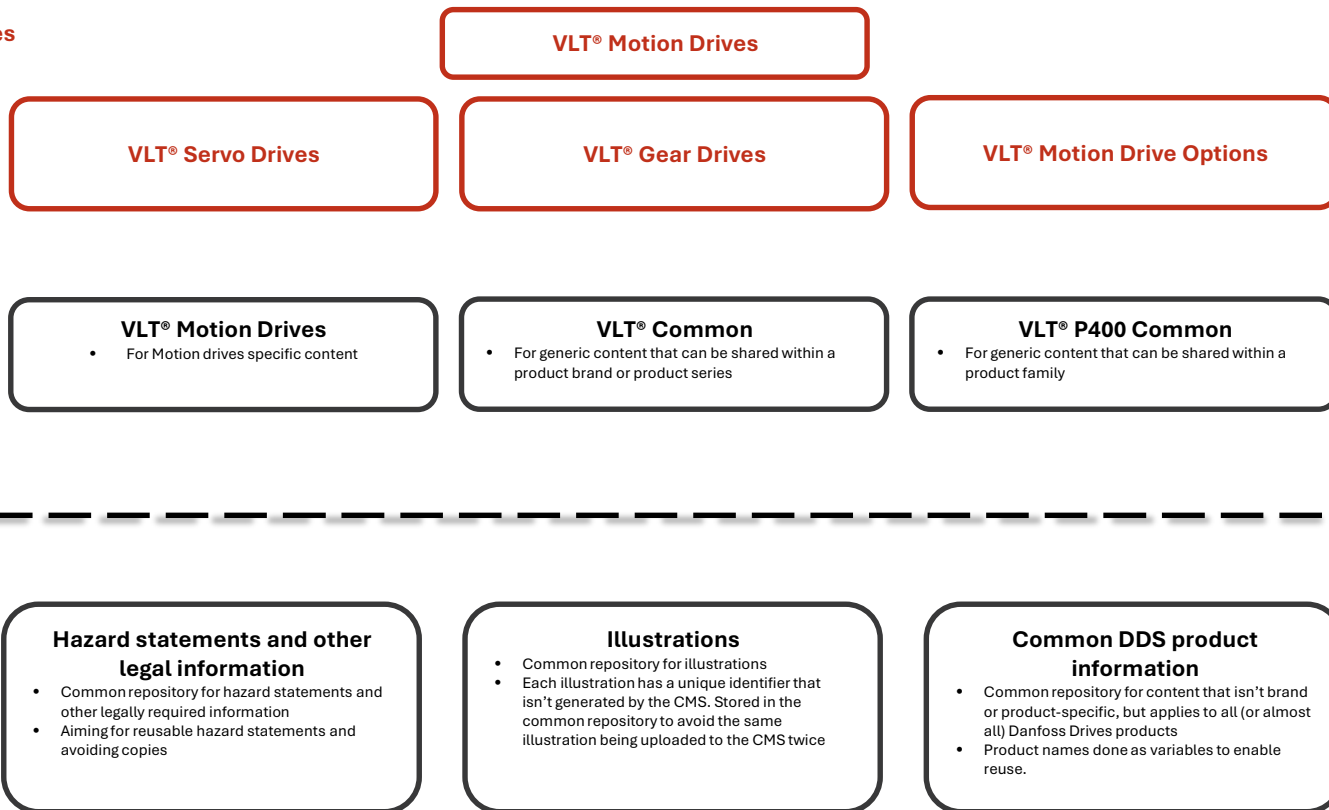
## Product branches

- Location for publications
- Split made to enable content sharing when necessary and content variation when needed

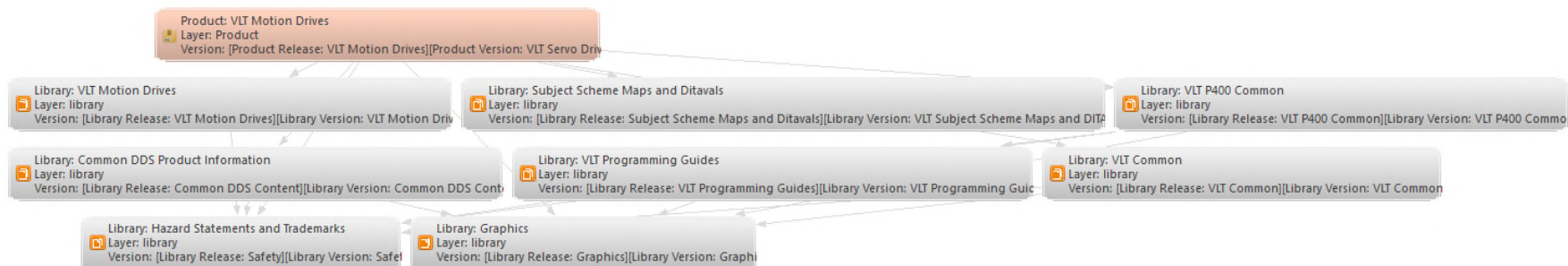
## Library collections relevant for Motion Drives

## Library collections for common content

- Common libraries linked to all content collections: every single Danfoss Drives technical documentation publication can use



## Example: VLT® Motion Drives, Flexmotion series



- The publications are created and maintained in product branch *VLT® Servo Drives*.
- Content for the guides is collected from library collections *VLT® Motion Drives*, *VLT® P400 Common*, and *VLT® Common*.
- Hazard statements and illustrations for the content created in the aforementioned libraries is collected from library collections *Hazard Statements and Trademarks* and *Graphics*.

DITA Map Dynamic Release Management				
▲ Title	Status	Locked By	Last Mod By	Last Modified
> Product: Customized Documentation	Authoring:open		Janna Haapala [janna.haapala@danfoss.com]	2023-11-15 14:00
> Product: Danfoss Multi-Brand Manuals	Authoring:open		Janna Haapala [janna.haapala@danfoss.com]	2024-11-15 14:00
> Product: iC Series Application Guides	Authoring:open		Janna Haapala [janna.haapala@danfoss.com]	2024-11-15 14:00
> Product: iC Series Frequency Converters	Authoring:open		Janna Haapala [janna.haapala@danfoss.com]	2024-11-15 14:00
> Product: iC Series Options	Authoring:open		Janna Haapala [janna.haapala@danfoss.com]	2024-11-15 14:00
> Product: iC Series System Modules and Enclosed Drives	Authoring:open		Janna Haapala [janna.haapala@danfoss.com]	2024-11-15 14:00
> Product: iC2-Micro	Authoring:open		Don Koneval [don.koneval@danfoss.com]	2023-11-15 14:00
> Product: iC7-Automation	Authoring:open		Janna Haapala [janna.haapala@danfoss.com]	2023-11-15 14:00
> Product: iC7-Hybrid	Authoring:open		Don Koneval [don.koneval@danfoss.com]	2023-11-15 14:00
> Product: iC7-Marine	Authoring:open		Don Koneval [don.koneval@danfoss.com]	2023-11-15 14:00

Filter product by name...

▲ Title	Status	Locked By	Last Mod By	Last Modified
> Library: Common DDS Product Information	Authoring:open		Janna Haapala [janna.haapala@danfoss.com]	2023-11-15 14:00
> Library: Danfoss Power Options Safety and Warnings	Authoring:open		Tina Bertelsen Lock [tina.lock@danfoss.com]	2023-11-15 14:00
> Library: Graphics	Authoring:open		Tina Bertelsen Lock [tina.lock@danfoss.com]	2024-11-15 14:00
> Library: Hazard Statements and Trademarks	Authoring:open		Tina Bertelsen Lock [tina.lock@danfoss.com]	2024-11-15 14:00
> Library: iC Series Frequency Converters	Authoring:open		Janna Haapala [janna.haapala@danfoss.com]	2024-11-15 14:00
> Library: iC Series Options and Common Product Information	Authoring:open		Janna Haapala [janna.haapala@danfoss.com]	2024-11-15 14:00
> Library: iC Series Software	Authoring:open		Janna Haapala [janna.haapala@danfoss.com]	2024-11-15 14:00
> Library: iC Series System Modules and Enclosed Drives	Authoring:open		Janna Haapala [janna.haapala@danfoss.com]	2024-11-15 14:00
> Library: iC2-30 Frequency Converters	Authoring:open		Don Koneval [don.koneval@danfoss.com]	2023-11-15 14:00
> Library: iC7 Filters	Authoring:open		Don Koneval [don.koneval@danfoss.com]	2023-11-15 14:00
> Library: Service Guide, Kits, Spare Parts, Drive Pro	Authoring:open		Don Koneval [don.koneval@danfoss.com]	2024-11-15 14:00
> Library: Subject Scheme Maps and Ditavals	Authoring:open		Tina Bertelsen Lock [tina.lock@danfoss.com]	2024-11-15 14:00
> Library: VACON Decentral Drives	Authoring:open		Janna Haapala [janna.haapala@danfoss.com]	2023-11-15 14:00
> Library: VACON Drive Modules	Authoring:open		Janna Haapala [janna.haapala@danfoss.com]	2023-11-15 14:00
> Library: VACON Enclosed Drives	Authoring:open		Janna Haapala [janna.haapala@danfoss.com]	2023-11-15 14:00
> Library: VACON Options and Common Product Information	Authoring:open		Janna Haapala [janna.haapala@danfoss.com]	2023-11-15 14:00
> Library: VACON Software	Authoring:open		Janna Haapala [janna.haapala@danfoss.com]	2023-11-15 14:00
> Library: VACON Wall-mounted Drives	Authoring:open		Janna Haapala [janna.haapala@danfoss.com]	2023-11-15 14:00
> Library: VLT Common	Authoring:open		Don Koneval [don.koneval@danfoss.com]	2023-11-15 14:00
> Library: VLT Compressor Drives	Authoring:open		Don Koneval [don.koneval@danfoss.com]	2024-11-15 14:00
> Library: VLT Frequency Converters	Authoring:open		Don Koneval [don.koneval@danfoss.com]	2023-11-15 14:00
> Library: VLT Motion Drives	Authoring:open		Don Koneval [don.koneval@danfoss.com]	2023-11-15 14:00
> Library: VLT Options and Software	Authoring:open		Tina Bertelsen Lock [tina.lock@danfoss.com]	2024-11-15 14:00

Filter library by name...

# Future outlook

## What is the future plan?

Developing publication channels to expose the CCMS topics with metadata to support:

### Danfoss My Drive Assistant

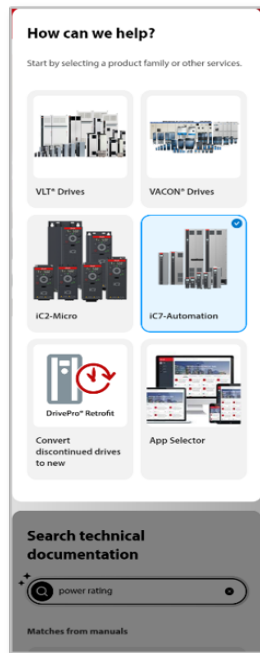
- Released topics populating the knowledge base automatically

### Danfoss Software Tools

- Accessing exposed topics to provide online help

### Content Delivery Portal

- Accessing exposed topics via a CDP, where customers can search for information on their product – down to topic level – and create their own content collections. Investigation regarding using Microsoft Copilot or commercial CDP
- Metadata enrichment planned to happen as part of the post-publishing process, not in CCMS as previously planned



# What is the future plan?

Topic-based exposing of content to different touchpoints



Product-instance-based documentation

DITA topics are the granular base of information to create **serial number specific product information**.



VDI 2770

Compiling activity-related documents for automated VDI 2770 (and later iiRDS) package **generation**.



Integrations

**PIM** (inheriting product hierarchy and product attributes).

**PLM → DAM** (connecting information products to product lifecycle).

# Questions?



Thank you!

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