Keys in action

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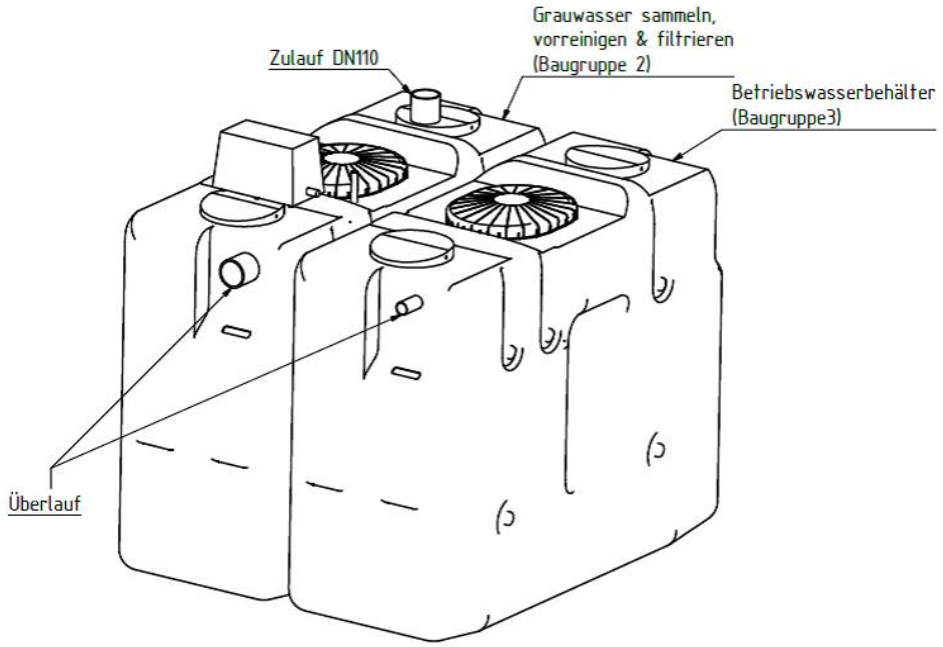
CMS/ DITA North America 2018, Denver

Contents

1. The “CleverTank” project
2. Setup of a simple DITA project
3. Renaming, rebranding
4. Adding products and components
5. Was is worth it?



DITA-Anwender Bodensee and the CleverTank project

Roadmap 2017:

- Writing DITA sample projects
- Design your DITA-OT output
- Localization of DITA projects
- DITA-Markdown roundtrip
- "The Key must be free"
- DITA tools battle
- Tools for DITA localization and terminology
- Upcoming conferences sneak peek
- Roadmap 2018 und 2017 DITA-Tops&Flops

Meetup https://www.meetup.com/de-DE/DITA-Anwender-Bodensee/

DITA-Anwender Bodensee and the CleverTank project

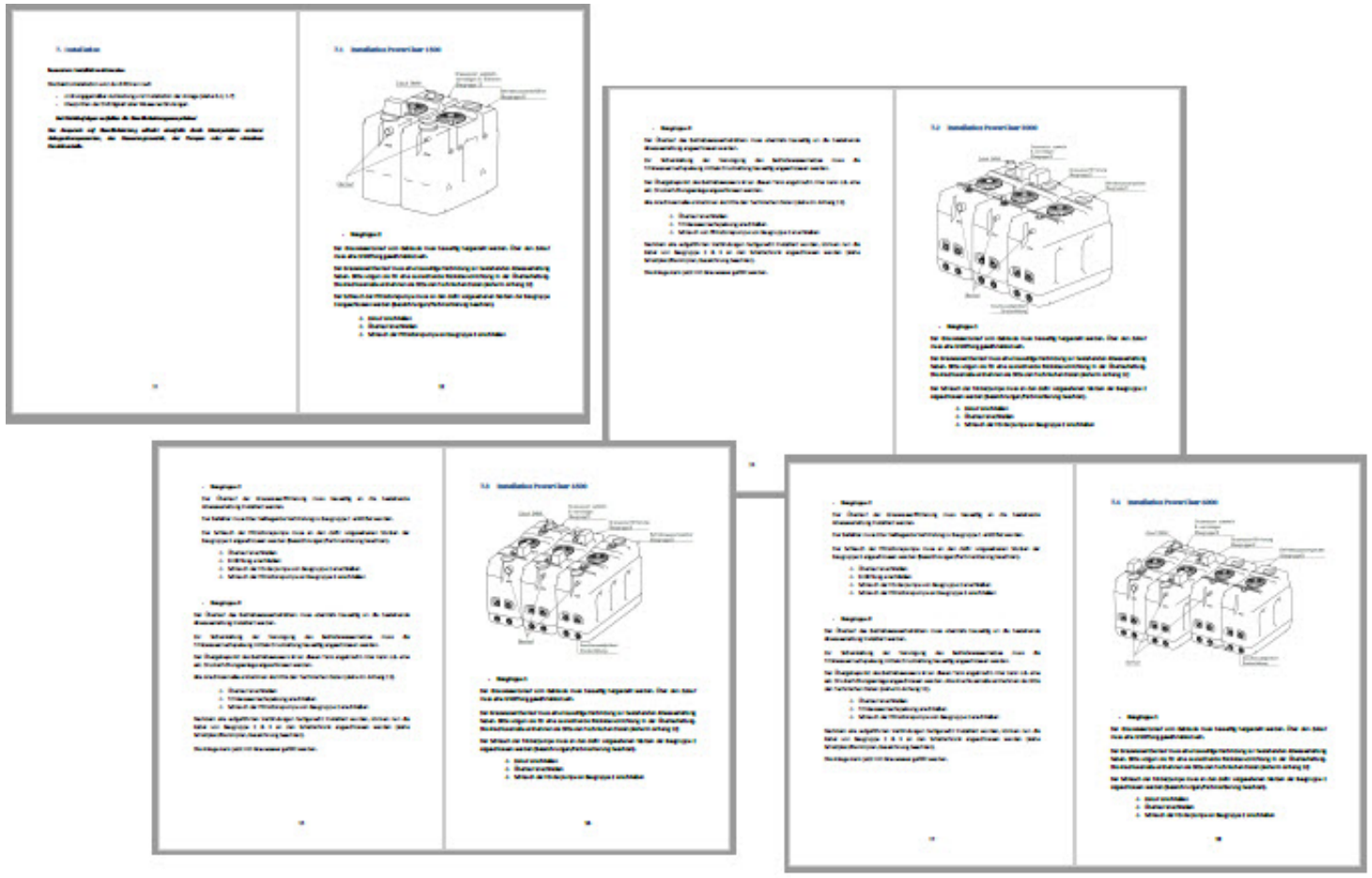
Roadmap 2018:

- More project versions of “CleverTank”
- DITA-OT plugins
- Specialization
- Constraints
- More DITA-OT plugins
- Markdown rowndtrips, DITA Glass & Co.
- Versioning
- DITA buy-in

DITA-ANWENDER
BODENSEE

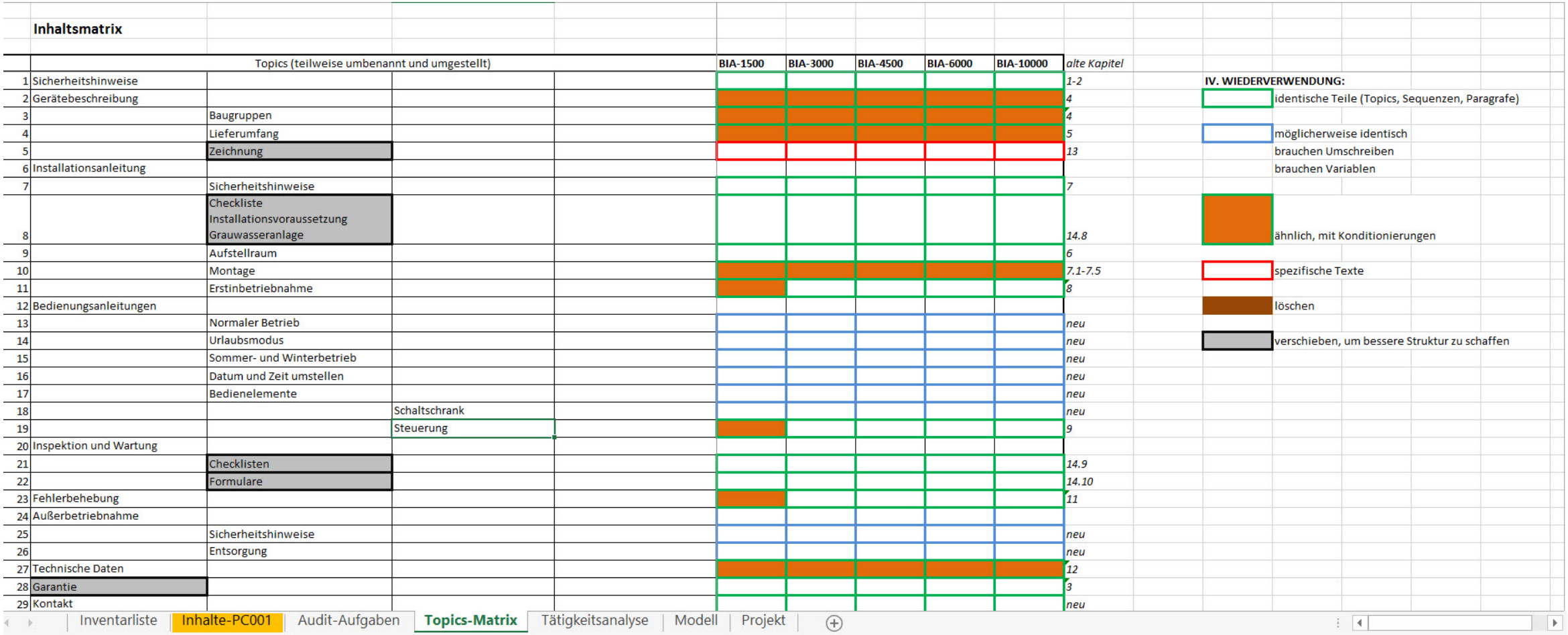
Meetup https://www.meetup.com/de-DE/DITA-Anwender-Bodensee/

Content analysis (based on Word files, DE)



For the scope of the presentation, you'll see the same project under different names (to save more stages).
The goal is: one single-source project.

Content analysis (based on Word files, DE)



Inhaltsmatrix

	Topics (teilweise umbenannt und umgestellt)			BIA-1500	BIA-3000	BIA-4500	BIA-6000	BIA-10000	*alte Kapitel*
1	Sicherheitshinweise								*1-2*
2	Gerätebeschreibung								*4*
3		Baugruppen							*4*
4		Lieferumfang							*5*
5		Zeichnung							*13*
6	Installationsanleitung								
7		Sicherheitshinweise							*7*
8		Checkliste Installationsvoraussetzung Grauwasseranlage							*14.8*
9		Aufstellraum							*6*
10		Montage							*7.1-7.5*
11		Erstinbetriebnahme							*8*
12	Bedienungsanleitungen								
13		Normaler Betrieb							*neu*
14		Urlaubsmodus							*neu*
15		Sommer- und Winterbetrieb							*neu*
16		Datum und Zeit umstellen							*neu*
17		Bedienelemente							*neu*
18			Schaltschrank						*neu*
19			Steuerung						*9*
20	Inspektion und Wartung								
21		Checklisten							*14.9*
22		Formulare							*14.10*
23	Fehlerbehebung								*11*
24	Außerbetriebnahme								
25		Sicherheitshinweise							*neu*
26		Entsorgung							*neu*
27	Technische Daten								*12*
28	Garantie								*3*
29	Kontakt								*neu*

IV. WIEDERVERWENDUNG:

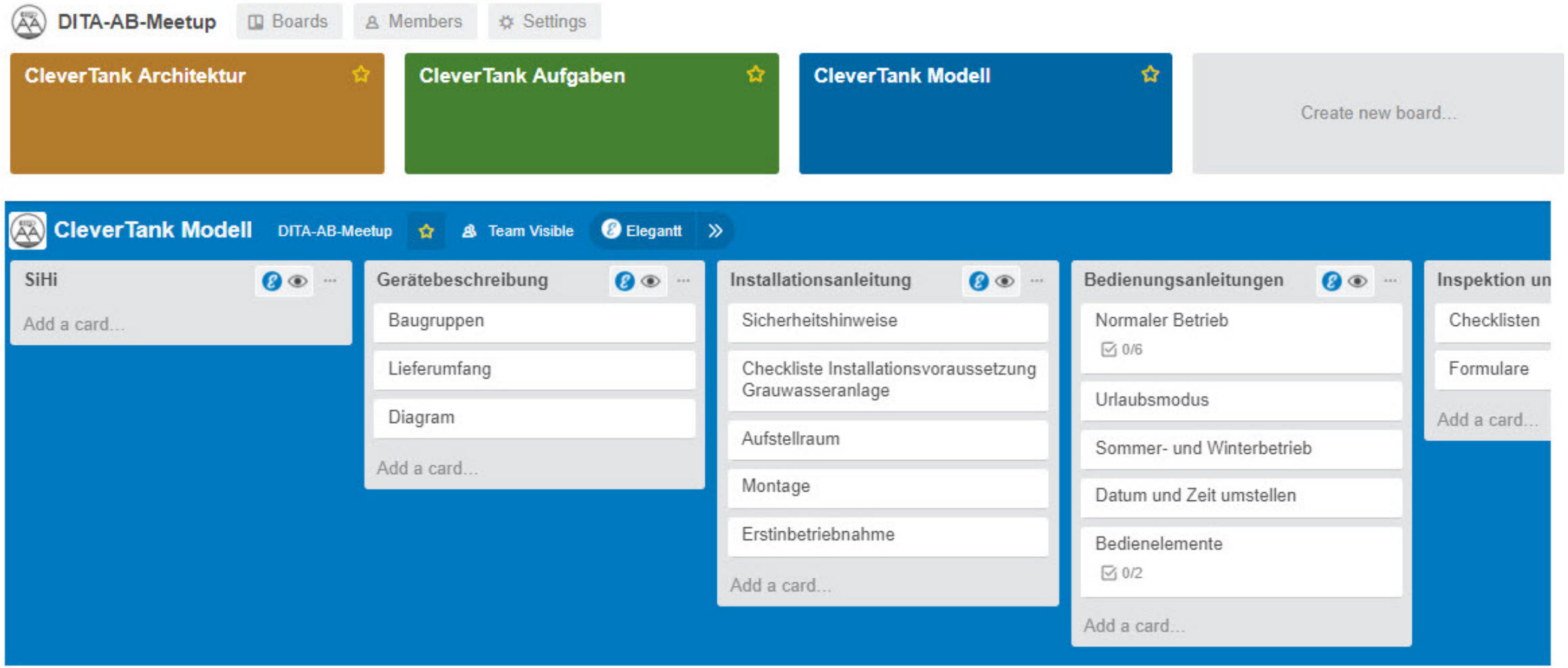
- identische Teile (Topics, Sequenzen, Paragrafe)
- möglicherweise identisch
  - brauchen Umschreiben
  - brauchen Variablen
- ähnlich, mit Konditionierungen
- spezifische Texte
- löschen
- verschieben, um bessere Struktur zu schaffen

Inventarliste | Inhalte-PC001 | Audit-Aufgaben | **Topics-Matrix** | Tätigkeitsanalyse | Modell | Projekt

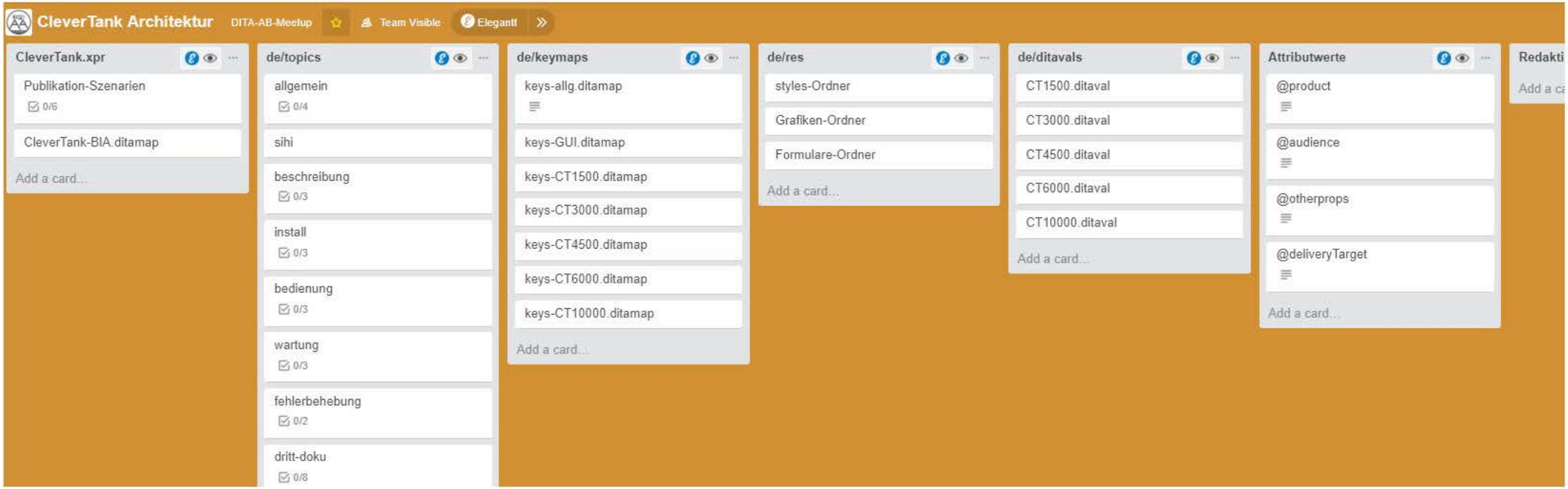
Use cases and task analysis

(the café-style way)

Information modelling (DE)



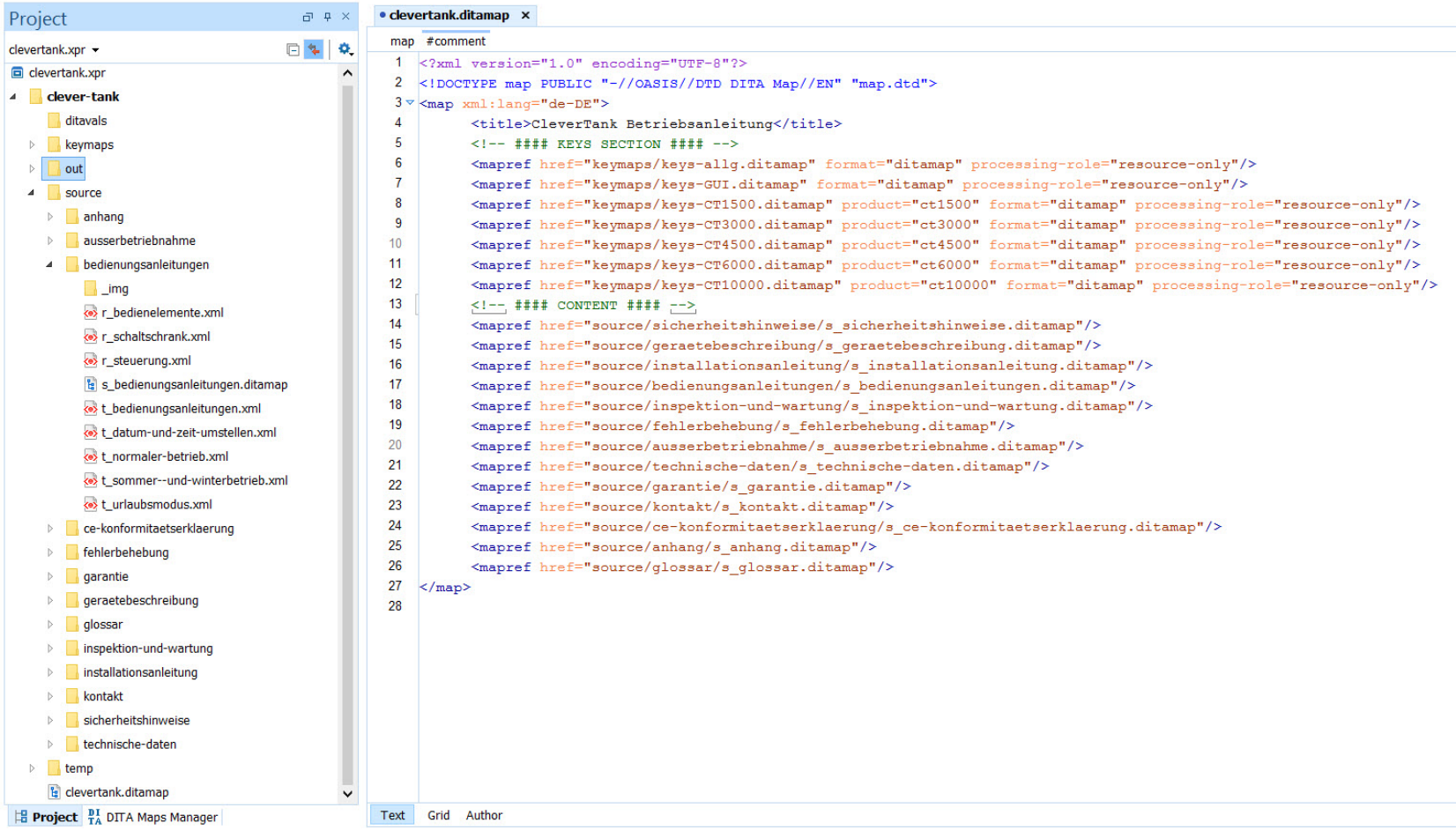
Information architecture (DE)



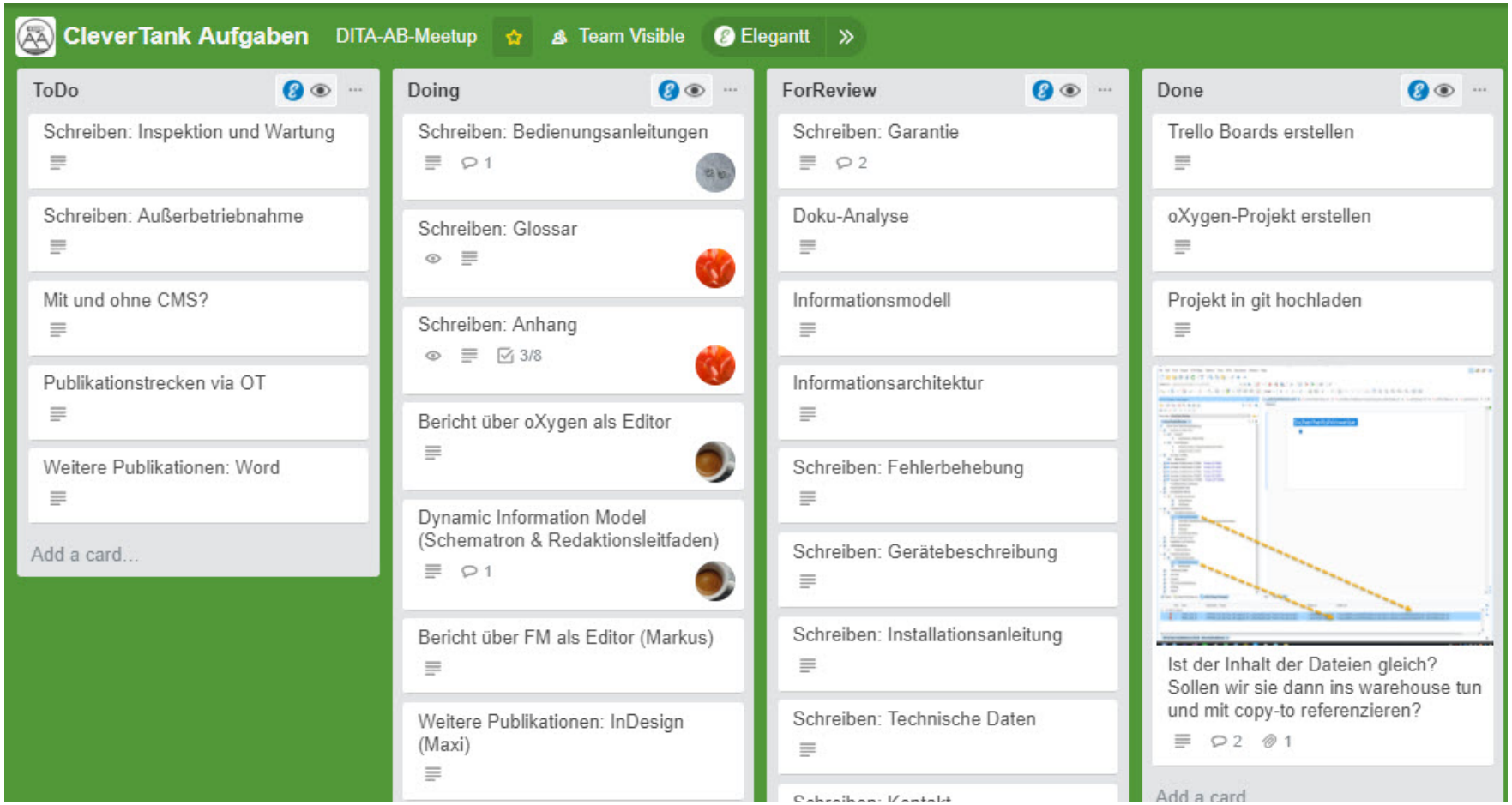
Building the oXygen Project

Try out model2dita:

https://github.com/mgcalo/model2dita



Writing content (DE)



DITA-Anwender Bodensee and the CleverTank project

Writing DITA sample projects:

- Content analysis
- Use cases and task analysis
- Information modelling
- Information architecture
- Writing content
- Bragging about it (“Tools battle”)

DITA-Anwender Bodensee and the CleverTank project

To do:

- Review English content
- Fill in the gaps
- Images with callouts
- More architecture (key scopes)
- Output styling
- Blog posts, tutorials

I. One-product project

https://lindseygail10.files.wordpress.com/2013/12/the-time-is-now-procrastination.jpg

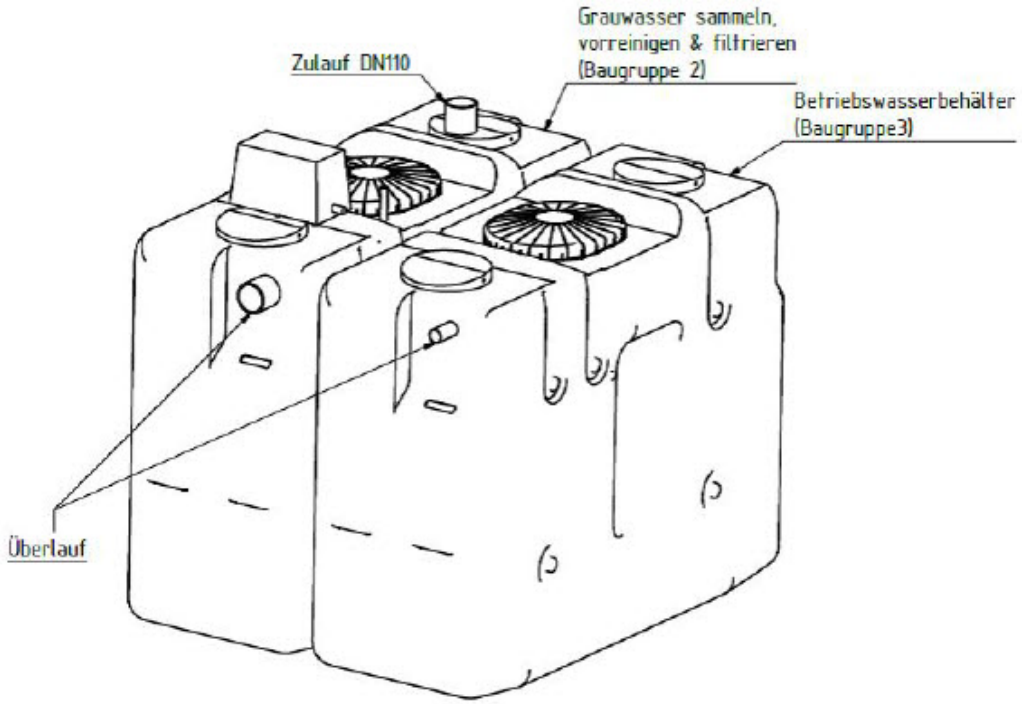
Always with keys!

- Product keys
- Graphics keys
- User interface keys
- Technical data keys

One-product project

Product description

The systems are intended for multi-stage treatment of grey water and provision of service water. The system comprises multiple assembly groups.



- **Group 1:** Collect, purify and filter grey water

  In the first assembly group, grey water is collected, purified and filtered.
- **Group 2:** Service water storage

  In this assembly group the filtered grey water is stored as service water. In addition, the last tank has a potable water feed in order to ensure the supply of service water to the network.
- **Group 3:** Control system

  CleverTank grey water systems are equipped with a fourth assembly group, a fully automatic control system for regulating and monitoring. It is provided with a potential-free contact to integrate fault indications in the building management system.

Tank volumes can vary according to the type of system.

One-product project

Delivery scope

The grey water system CleverTank 1500 is delivered with the following components:

Group 1

- 1 x tank 1500l
- 1 x membrane unit
- 1 x ventilation system
- 1 x permeate pump

Group 2

- 1 x tank 1500l
- potable water backfeed

Group 3

- control system

One-product project

Assembling group 1

Please refer to the technical data sheet for all connecting dimensions.

1. Locate the grey water inflow from the building.
2. Connect the inflow.

   Venting must be ensured via the inflow.
3. Connect the overflow.

   The grey water overflow must be provided with an on-site connection to the existing wastewater line.

   Please ensure an adequate backflow device in the overflow line.
4. Connect the tubes of the filtration pump to the nozzles of assembly group 2 (observe designation/colour coding).

Assembling group 2

The transfer point of service water is mounted on this tank. Eventually, an external pressure booster unit can be connected here.

Please apply all connecting dimensions according to the technical data sheet.

1. The overflow of the service water group must also be connected on-site to the existing wastewater line.
2. In order to ensure the supply to the service water network, the potable water backfeed must be connected on-site by means of a pressure line.
3. Connect the tube of the filtration pump of assembly group 1.

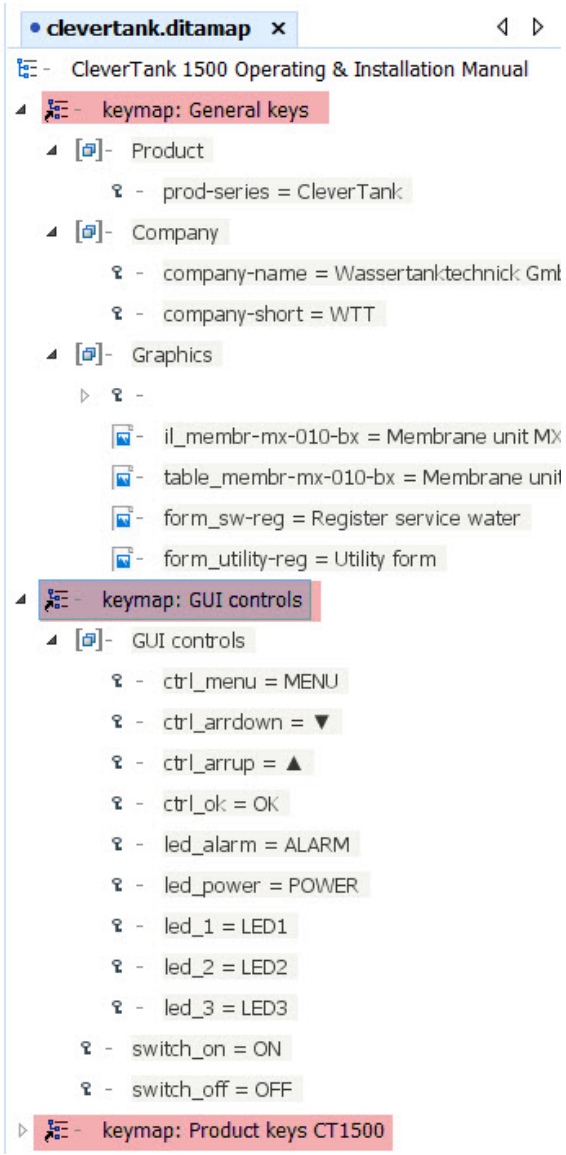
One-product project

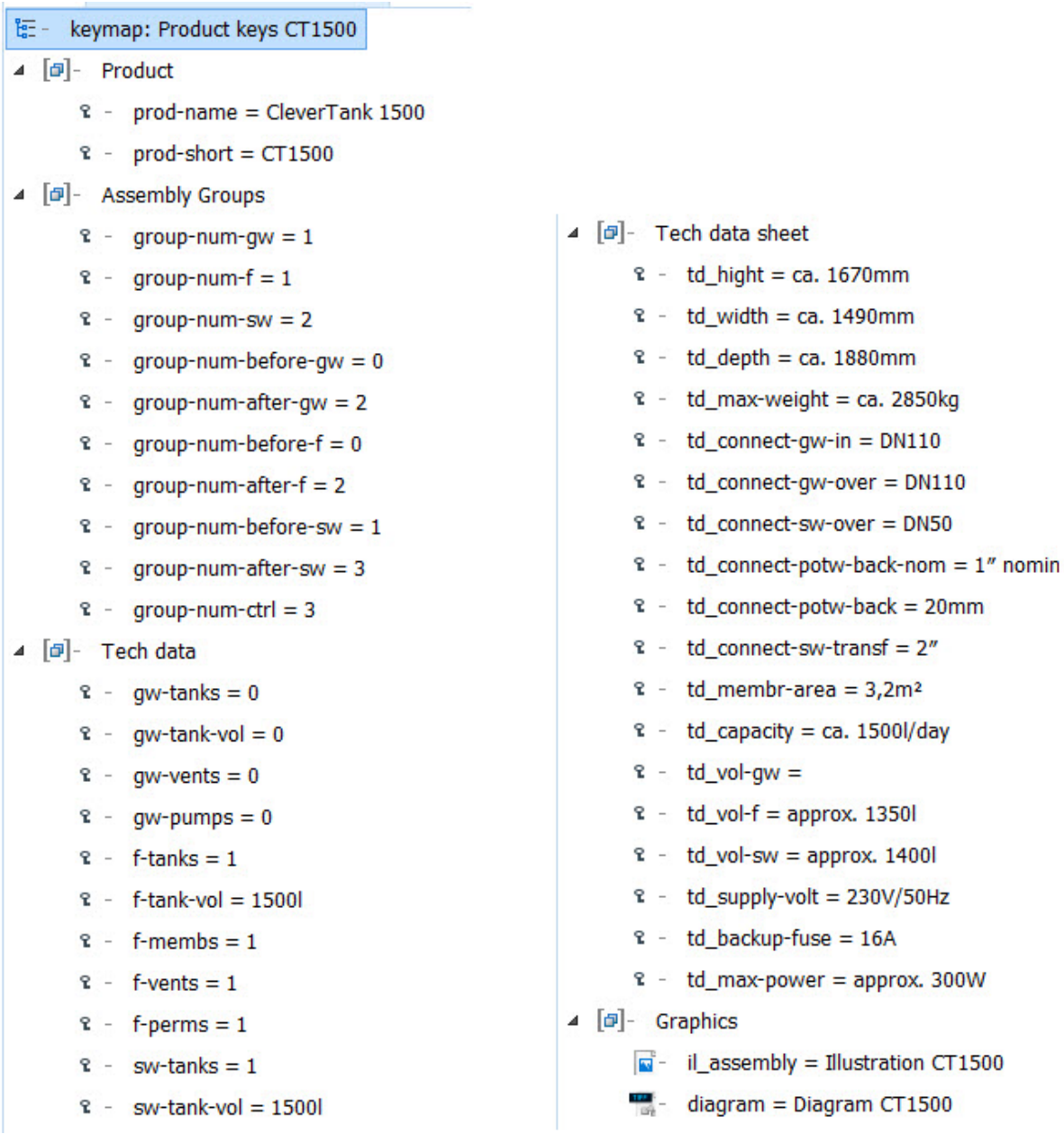
Technical data

	CleverTank 1500
Height	ca. 1670mm
Width	ca. 1490mm
Depth	ca. 1880mm
Max. filled weight	ca. 2850kg
Connection grey water inflow	DN110
Connection grey water overflow	DN110
Connection service water overflow	DN50
Connection potable water backfeed	1″ nominal 20mm
Connection service water transfer	2″
Membrane surface	3,2m²
Treatment capacity	ca. 1500l/day
Tank volume assembly group 1	approx. 1350l
Tank volume assembly group 2	approx. 1400l
Supply voltage	230V/50Hz
Back-up fuse	16A
Max. power consumption	approx. 300W

One-product project: keymaps

One-product project: keys





One-product project: key definitions

@keys values:

Define once and shouldn't change afterwards.

```
<map>
    <title>keymap: Product keys CT1500</title>

    <topicgroup>
        <topicmeta>
            <navtitle>Product</navtitle>
        </topicmeta>
        <keydef keys="prod-name">
            <topicmeta>
                <keywords>
                    <keyword>CleverTank 1500</keyword>
                </keywords>
            </topicmeta>
        </keydef>
```

```
<!-- ######### TECH DATA SHEET: #####
<topicgroup>
    <topicmeta>
        <navtitle translate="no">Tech data sheet</navtitle>
    </topicmeta>
    <keydef keys="td_hight">
        <topicmeta>
            <keywords>
                <keyword>ca. 1670mm</keyword>
            </keywords>
        </topicmeta>
    </keydef>
```

```
<!-- ######### GRAPHICS: ######## -->
<topicgroup>
    <topicmeta>
        <navtitle translate="no">Graphics</navtitle>
    </topicmeta>
    <keydef keys="il_assembly" href="../graphics/il_ct1500.jpg" format="JPG" navtitle="Illustration CT1500">
        <topicmeta>
            <navtitle>Illustration CT1500</navtitle>
            <linktext>Illustration CT1500</linktext>
        </topicmeta>
    </keydef>
```

One-product project: using the keys

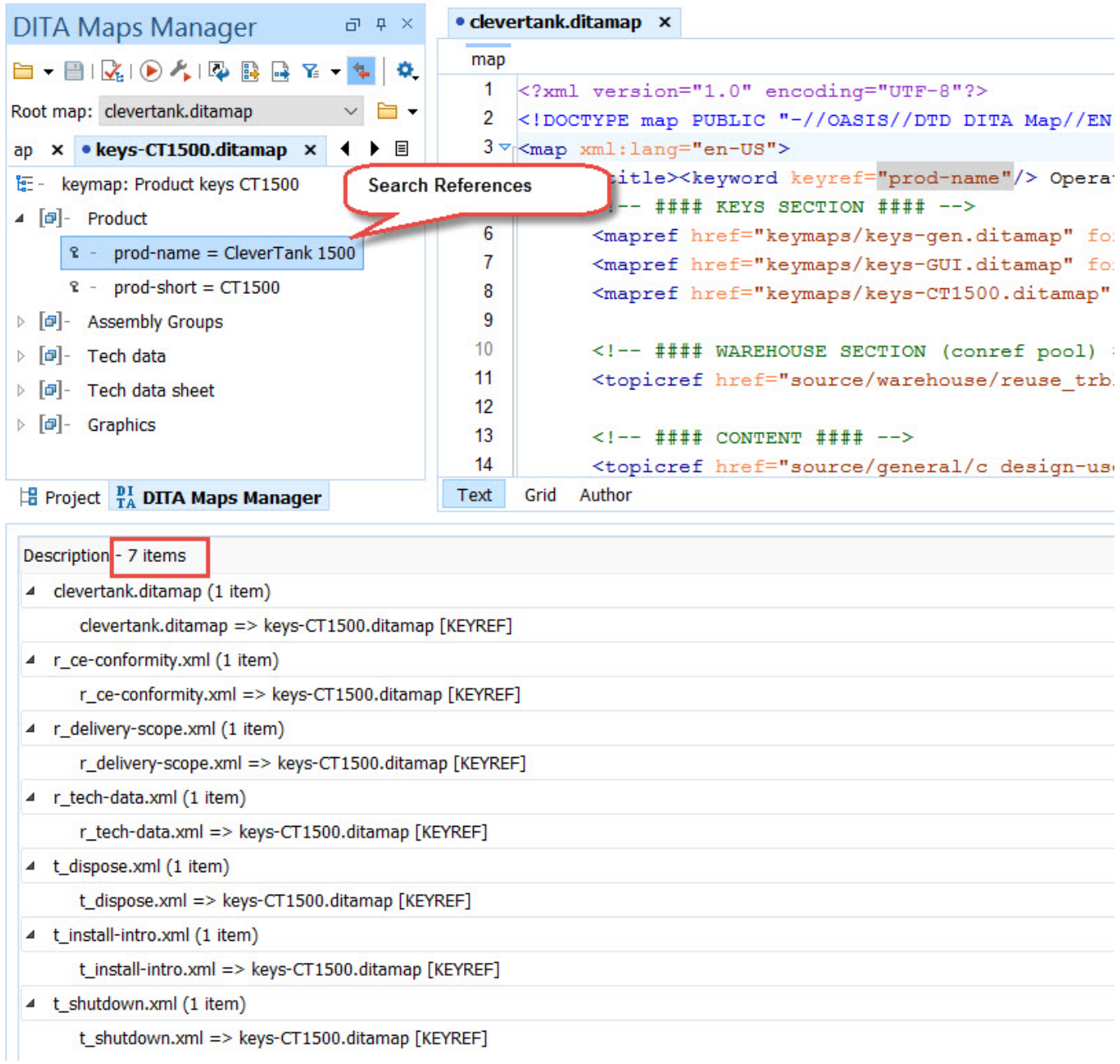
@keyref values:

When written for reuse, shouldn't change afterwards.

```
3  <reference xml:lang="en-US" id="r_delivery-scope">
4        <title>Delivery scope</title>
5        <refbody>
6              <section>
7                    <p>The grey water system <keyword keyref="prod-name"/> is delivered with the following components:</p>
8              </section>
9              <section>
10                   <title>Group <keyword keyref="group-num-f"/></title>
11                   <ul>
12                         <li><keyword keyref="f-tanks"/> x tank <keyword keyref="f-tank-vol"/></li>
13                         <li><keyword keyref="f-membs"/> x membrane unit</li>
14                         <li><keyword keyref="f-vents"/> x ventilation system</li>
15                         <li><keyword keyref="f-perms"/> x permeate pump</li>
16                   </ul>
```

```
3  <concept xml:lang="en-US" id="c_prod-description">
4        <title>Product description</title>
5        <conbody>
6              <p>The systems are intended for multi-stage treatment of grey water and provision of service water. The system comprises
   multiple assembly groups.</p>
7              <fig>
8                    <image keyref="il_assembly"/>
9              </fig>
```

One-product project: where is the key used?



I. One-product project

Always with keys!

https://lindseygail10.files.wordpress.com/2013/12/the-time-is-now-procrastination.jpg

Are keys:

- easy to find?
- easy to understand?
- easy to use?

Was it worth it?

maybe not all of the keys from the beginning, but they almost always come in handy.

II. Renaming/ Redesign

https://pointyhairedstartup.files.wordpress.com/2013/05/babynames.jpg

Only keys should change!

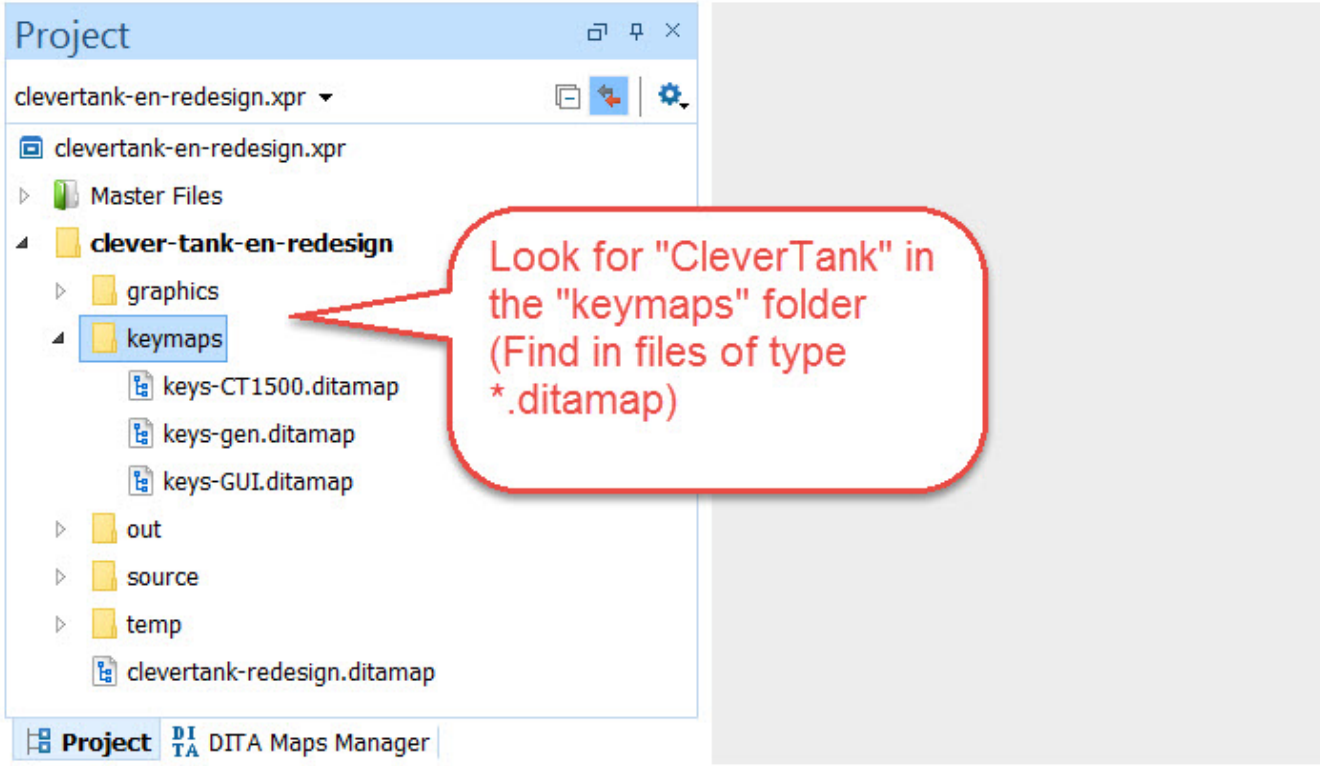
- Product keys
- Graphics keys
- UI keys

II. Renaming/ Redesign

Renaming:

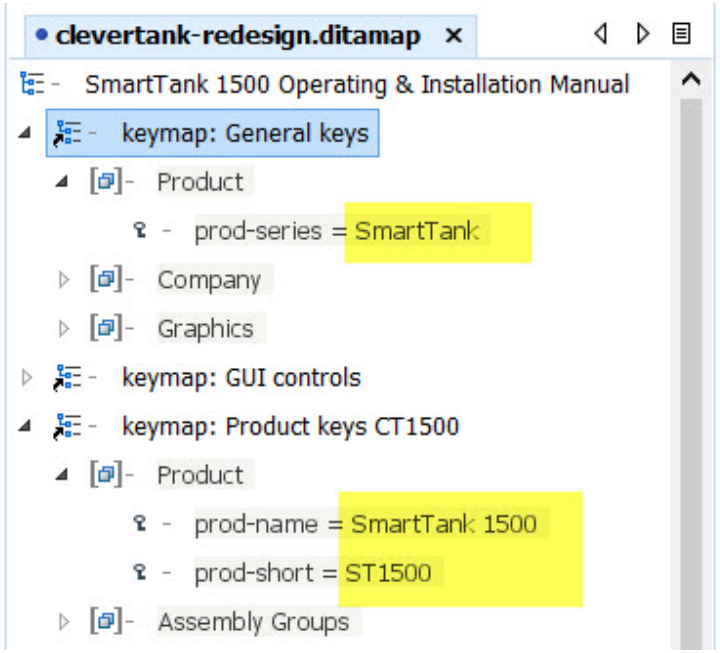
- CleverTank -> SmartTank

Renaming: finding the key values



Eventually rename some files, if your editor/repository supports it, without losing references.

Renaming: replace key values

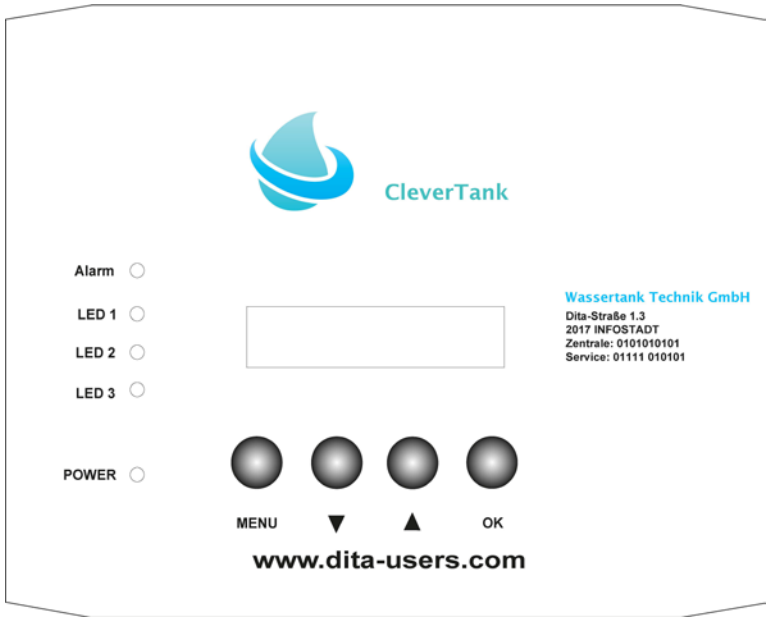


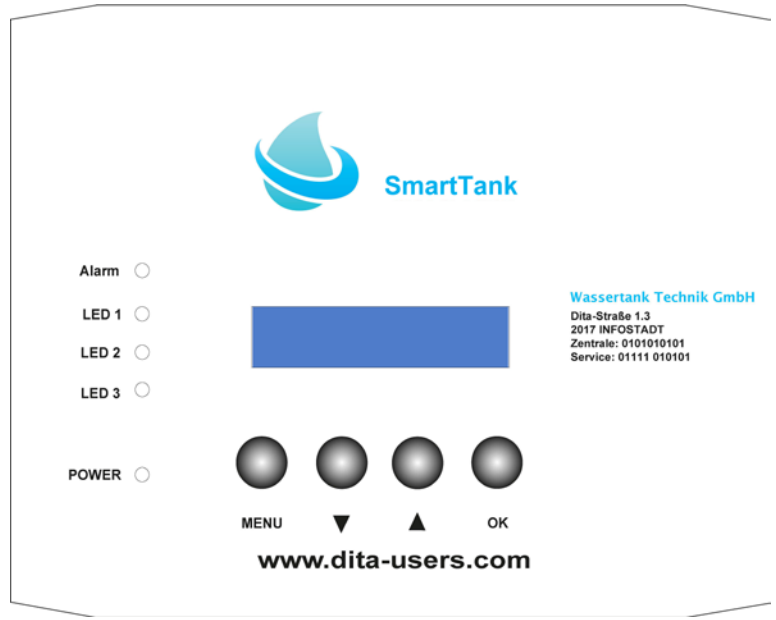

```
3  <map>
4        <title>keymap: General keys</title>
5
6        <topicgroup>
7              <topicmeta>
8                    <navtitle>Product</navtitle>
9              </topicmeta>
10             <keydef keys="prod-series">
11                   <topicmeta>
12                         <keywords>
13                               <keyword>SmartTank</keyword>
14                         </keywords>
15                   </topicmeta>
16             </keydef>
17       </topicgroup>
```

II. Renaming/ Redesign

Redesign:

- New panel interface





Renaming: replace key values

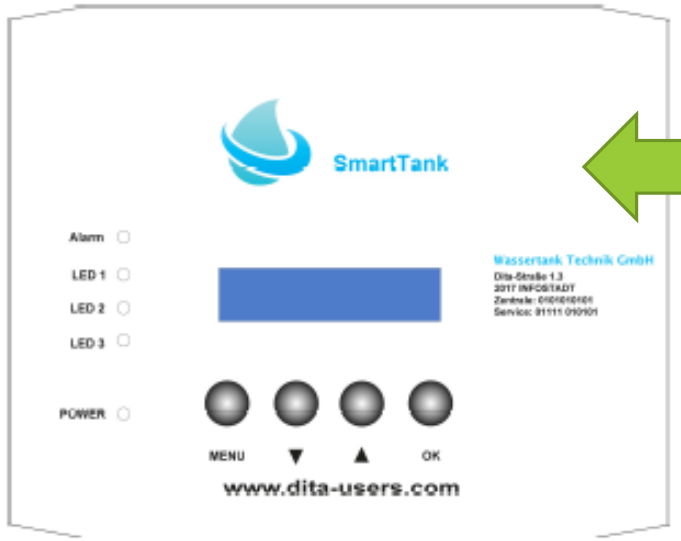
II. Renaming/ Redesign

Contents

Controls

The control system is equipped with 4 buttons and a display, where functions, operating parameters and faults can be pre-set or read.

The display has a two-line view.



The buttons **MENU**, **▼**, **▲** and **OK** are for setting and displaying individual menu items.

TechPubs are no longer a bottleneck when rebranding/ redesigning.

III. Add new products to the project

More…

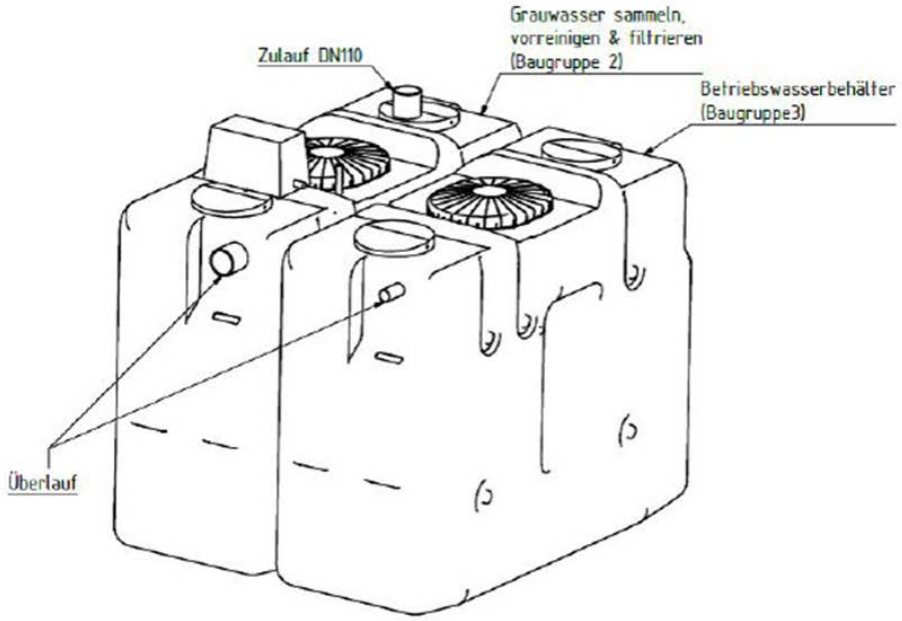
- Product keys
- Graphics keys
- UI keys
- Tech. data keys
- Attributes & DITAVALS

…but (mostly) the same topics

Single-source project

Product description

The systems are intended for multi-stage treatment of grey water and provision of service water. The system comprises multiple assembly groups.



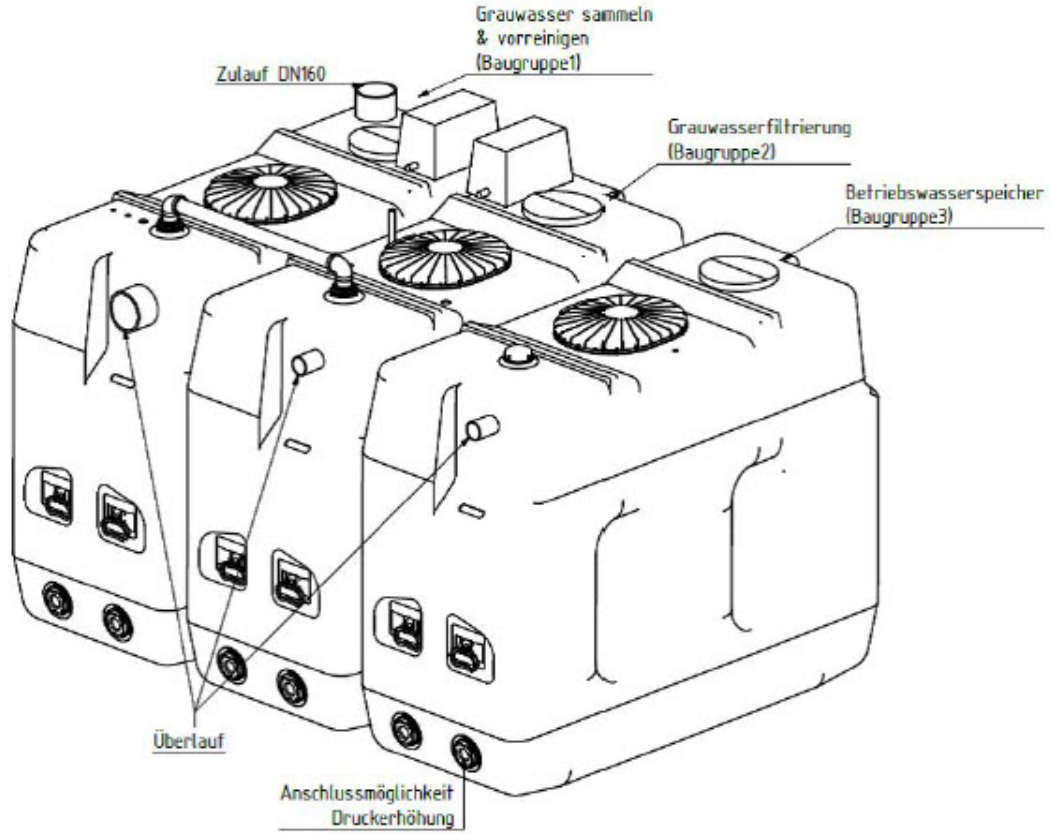
- **Group 1:** Collect, purify and filter grey water

  In the first assembly group, grey water is collected, purified and filtered.
- **Group 2:** Service water storage

  In this assembly group the filtered grey water is stored as service water. In addition, the last tank has a potable water feed in order to ensure the supply of service water to the network.
- **Group 3:** Control system

  CleverTank grey water systems are equipped with a fourth assembly group, a fully automatic control system for regulating and monitoring. It is provided with a potential-free contact to integrate fault indications in the building management system.

Tank volumes can vary according to the type of system.



- **Group 1:** Collect and purify grey water

  In the first assembly group, grey water is collected and purified.
- **Group 2:** Grey water filtration

  The second assembly group is for grey water filtration with the CleverTank membrane modules.
- **Group 3:** Service water storage

  In this assembly group the filtered grey water is stored as service water. In addition, the last tank has a potable water feed in order to ensure the supply of service water to the network.
- **Group 4:** Control system

  CleverTank grey water systems are equipped with a fourth assembly group, a fully automatic control system for regulating and monitoring. It is provided with a potential-free contact to integrate fault indications in the building management system.

Tank volumes can vary according to the type of system.

Single-source project

Delivery scope

The grey water system CleverTank 1500 is

Group 1

- 1 x tank 1500l
- 1 x membrane unit
- 1 x ventilation system
- 1 x permeate pump

Group 2

- 1 x tank 1500l
- potable water backfeed

Group 3

- control system

Delivery scope

The grey water system CleverTank 3000 is delivered with the following components:

Group 1

- 1 x tank 2000l
- 1 x ventilation system
- 1 x permeate pump

Group 2

- 1 x tank 2000l
- 1 x membrane unit
- 1 x ventilation system
- 1 x permeate pump

Group 3

- 1 x tank 2000l
- potable water backfeed

Group 4

- control system

Single-source project

Assembling group 1

Please refer to the technical data sheet for all connecting dimensions.

1. Locate the grey water inflow from the building.
2. Connect the inflow.

   Venting must be ensured via the inflow.
3. Connect the overflow.

   The grey water overflow must be provided with an on-site connection to the

   Please ensure an adequate backflow device in the overflow line.
4. Connect the tubes of the filtration pump to the nozzles of assembly group 2

Assembling group 2

The transfer point of service water is mounted on this tank. Eventually, an extern
connected here.

Please apply all connecting dimensions according to the technical data sheet.

1. The overflow of the service water group must also be connected on-site to th
2. In order to ensure the supply to the service water network, the potable water
   by means of a pressure line.
3. Connect the tube of the filtration pump of assembly group 1.

Assembly

Assembling group 1

Please refer to the technical data sheet for all connecting dimensions.

1. Locate the grey water inflow from the building.
2. Connect the inflow.

   Venting must be ensured via the inflow.
3. Connect the overflow.

   The grey water overflow must be provided with an on-site connection to the existing wastewater line.

   Please ensure an adequate backflow device in the overflow line.
4. Connect the tubes of the filtration pump to the nozzles of assembly group 2 (observe designation/colour coding).

Related reference

Technical data on page 16

Assembling group 2

1. Connect the grey water filtration overflow to the on-site wastewater line.
2. Connect vent.

   In addition, the assembly group with tank 1 must be vented via an accompanying connection to assembly group 2.
3. Connect the tube of the feed pump.
4. The tubes of the filtration pump must be connected to the nozzles of assembly group 3, provided for that purpose (observe designation/colour coding).

Related reference

Technical data on page 16

Assembling group 3

The transfer point of service water is mounted on this tank. Eventually, an external pressure booster unit can be connected here.

Please apply all connecting dimensions according to the technical data sheet.

1. The overflow of the service water group must also be connected on-site to the existing wastewater line.
2. In order to ensure the supply to the service water network, the potable water backfeed must be connected on-site by means of a pressure line.
3. Connect the tube of the filtration pump of assembly group 2.

Related reference

Technical data on page 16

Connecting the system to the control panel

Make sure all indicated connections have been made by a professional.

1. Connect the cables of assembly groups 2 and 3 to the control panel (see Circuit diagram/ Terminal diagram, observe designation).
2. Fill the system with grey water.

Single-source project

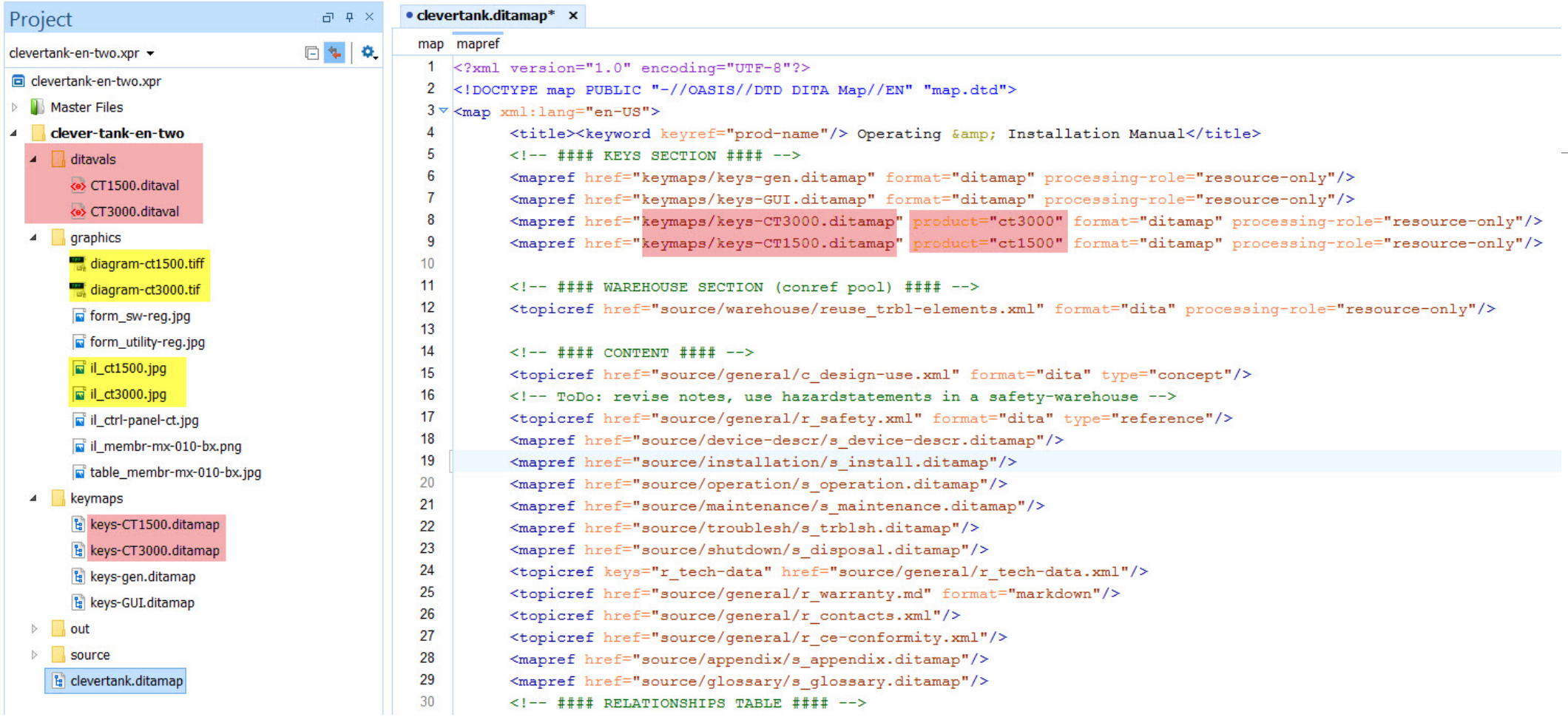
Technical data

	CleverTank 1500
Height	ca. 1670mm
Width	ca. 1490mm
Depth	ca. 1880mm
Max. filled weight	ca. 2850kg
Connection grey water inflow	DN110
Connection grey water overflow	DN110
Connection service water overflow	DN50
Connection potable water backfeed	1″ nominal
	20mm
Connection service water transfer	2″
Membrane surface	3,2m²
Treatment capacity	ca. 1500l/day
Tank volume assembly group 1	approx. 1350l
Tank volume assembly group 2	approx. 1400l
Supply voltage	230V/50Hz
Back-up fuse	16A
Max. power consumption	approx. 300W

Technical data

	CleverTank 3000
	ca. 1770mm
	ca. 2740mm
	ca. 2020mm
	ca. 5750kg
	DN160
	DN160
w	DN75
ed	1" Nennweite
	20mm
r	2"
	6,4m²
	ca. 3000l/Tag
	ca. 1800l
	ca. 1900l
	ca. 1900l
	230V/50Hz
	16A
	ca. 650W

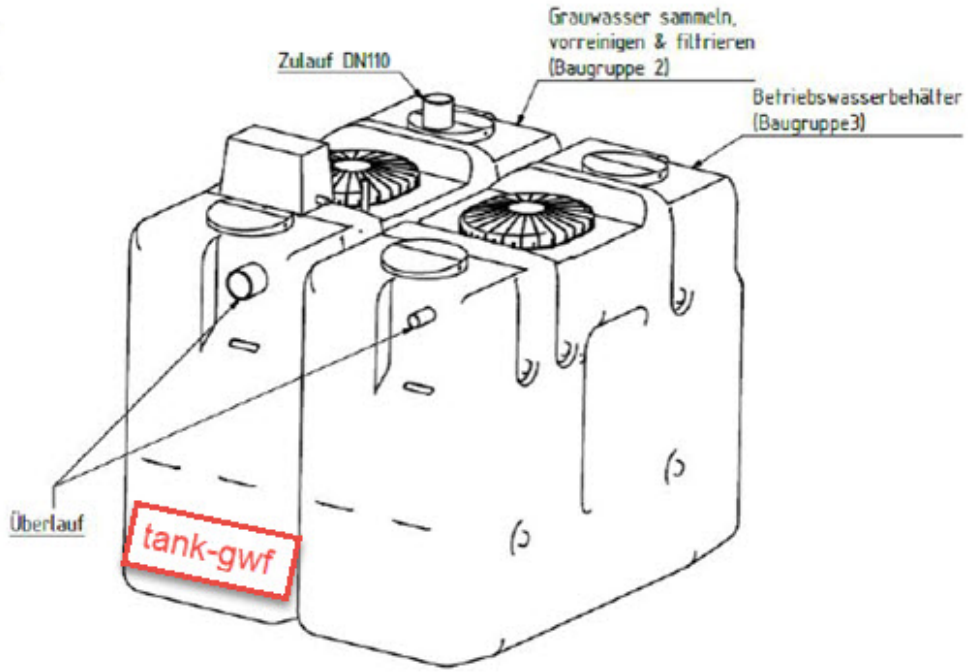
Single-source project: resources for two products



Single-source project: ditavals

CT1500.ditaval

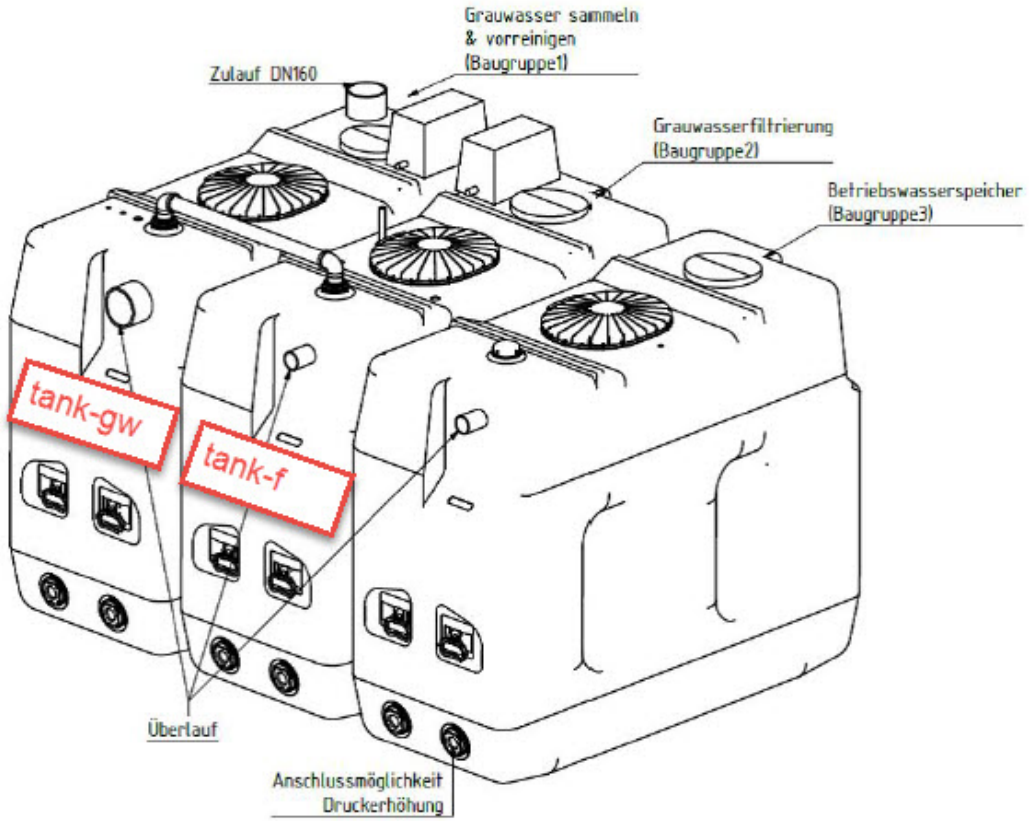
```
val
1  <?xml version="1.0" encoding="UTF-8"?>
2  <val>
3        <prop action="exclude" att="product"/>
4        <prop action="include" att="product" val="ct1500"/>
5        <prop action="exclude" att="otherprops"/>
6        <prop action="include" att="otherprops" val="tank-gwf"/>
7  </val>
8
```



Single-source project: ditavals

CT3000.ditaval

```
val
1  <?xml version="1.0" encoding="UTF-8"?>
2  <val>
3        <prop action="exclude" att="product"/>
4        <prop action="include" att="product" val="ct3000"/>
5        <prop action="exclude" att="otherprops"/>
6        <prop action="include" att="otherprops" val="tank-gw"/>
7        <prop action="include" att="otherprops" val="tank-f"/>
8  </val>
9
```



III. Add new products to the project

More…

- Product keys
- Graphics keys
- UI keys
- Tech. data keys
- Attributes & DITAVALS

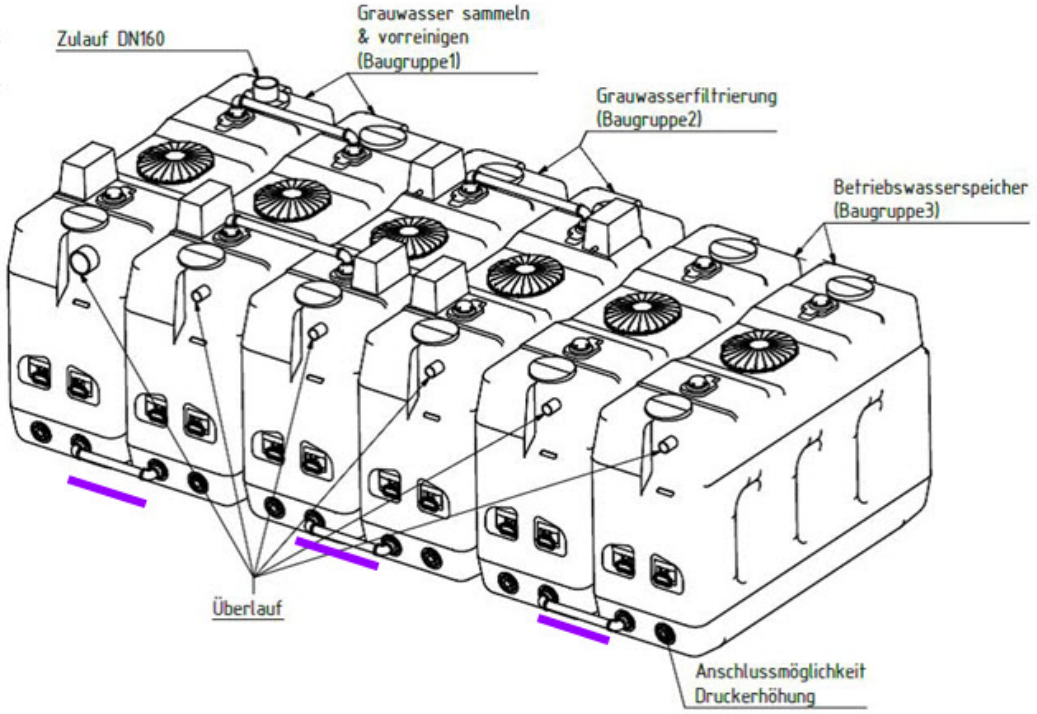
…but (mostly) the same topics

Single-source project: resources for five products

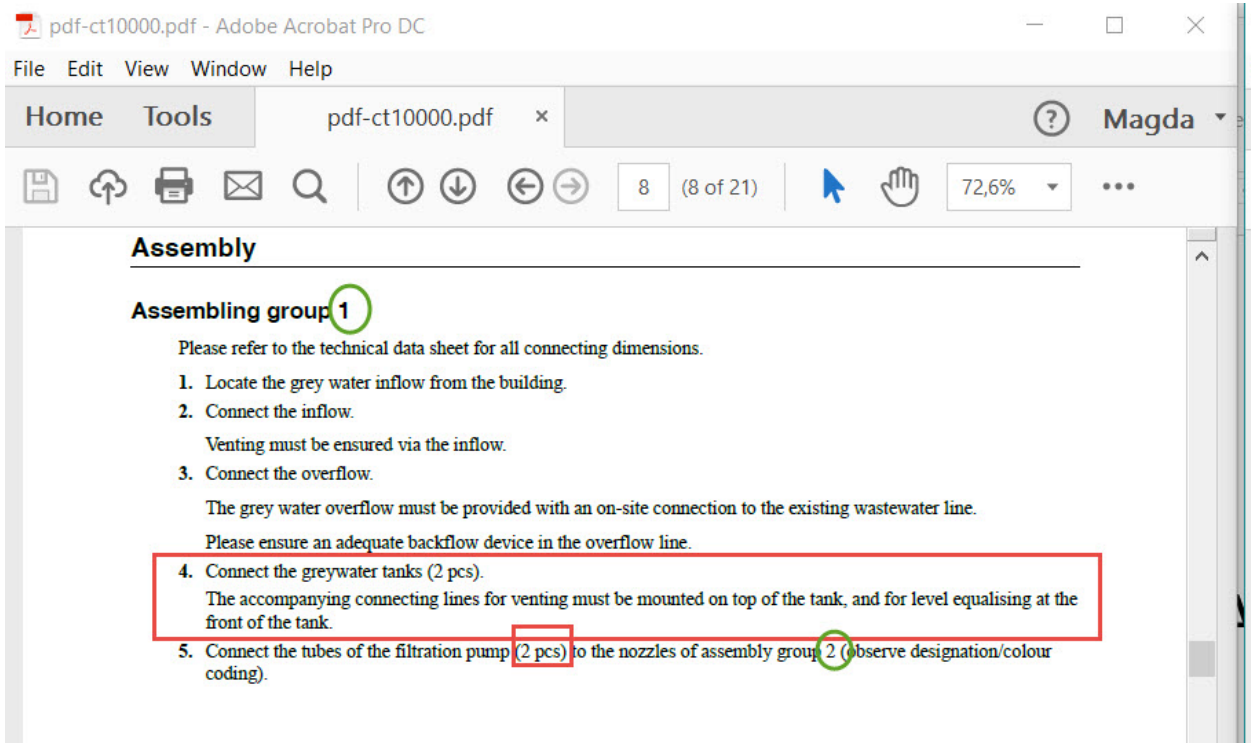
Single-source project: more attributes and ditavals

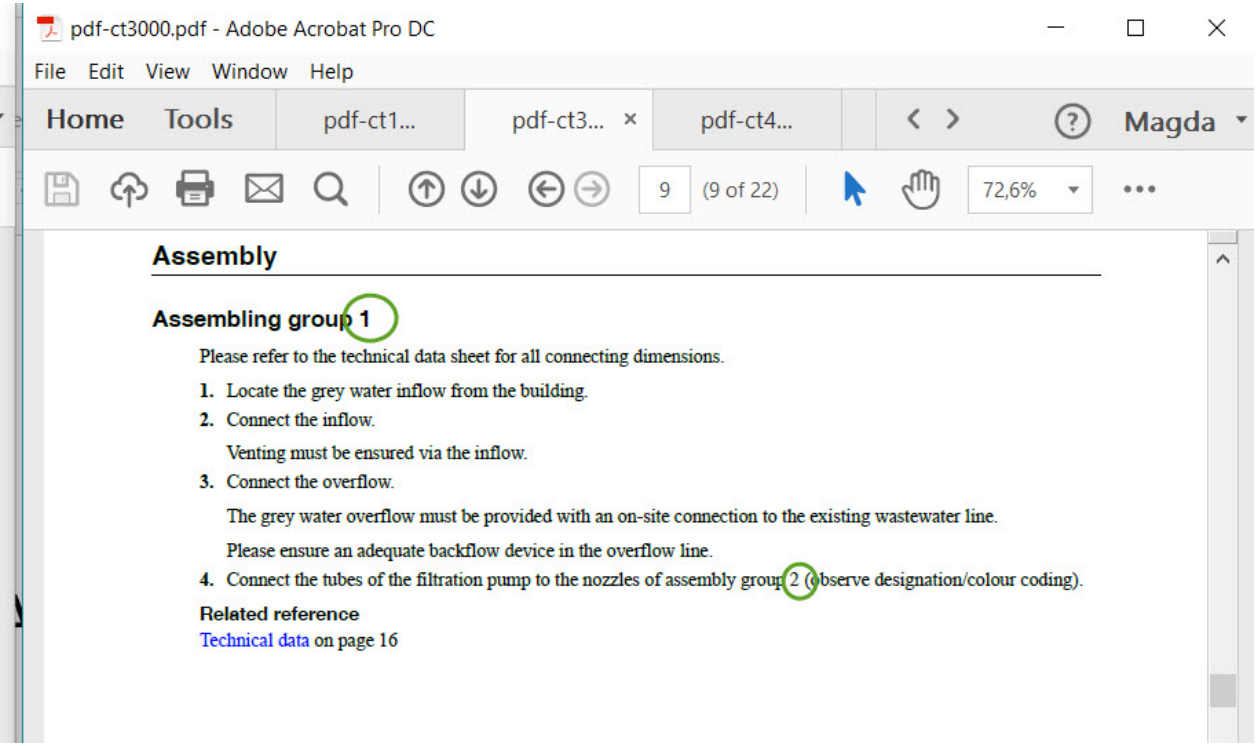
CT10000.ditaval

```
1  <?xml version="1.0" encoding="UTF-8"?>
2  <val>
3        <prop action="exclude" att="product"/>
4        <prop action="include" att="product" val="ct10000"/>
5        <prop action="exclude" att="otherprops"/>
6        <prop action="include" att="otherprops" val="tank-gw"/>
7        <prop action="include" att="otherprops" val="tank-f"/>
8        <prop action="include" att="otherprops" val="tank-gw-connect"/>
9        <prop action="include" att="otherprops" val="tank-f-connect"/>
10       <prop action="include" att="otherprops" val="tank-sw-connect"/>
11 </val>
```

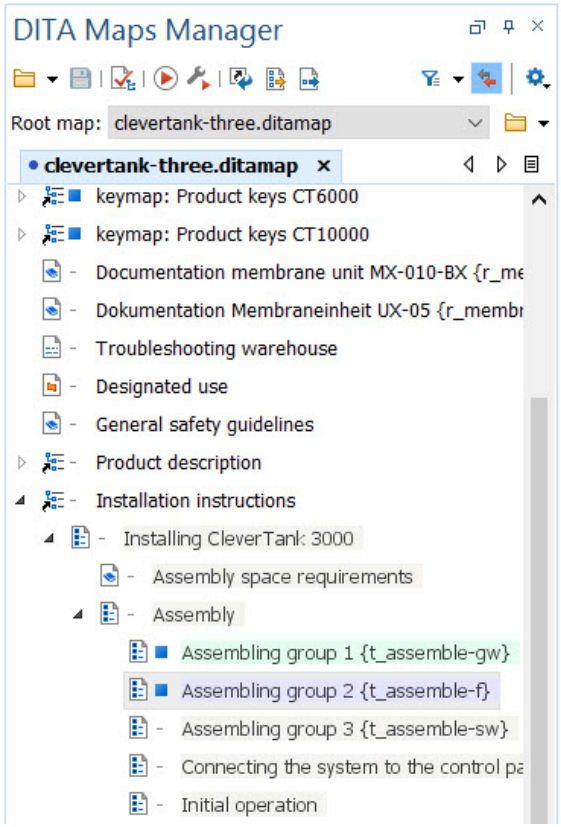


Single-source project: content differences





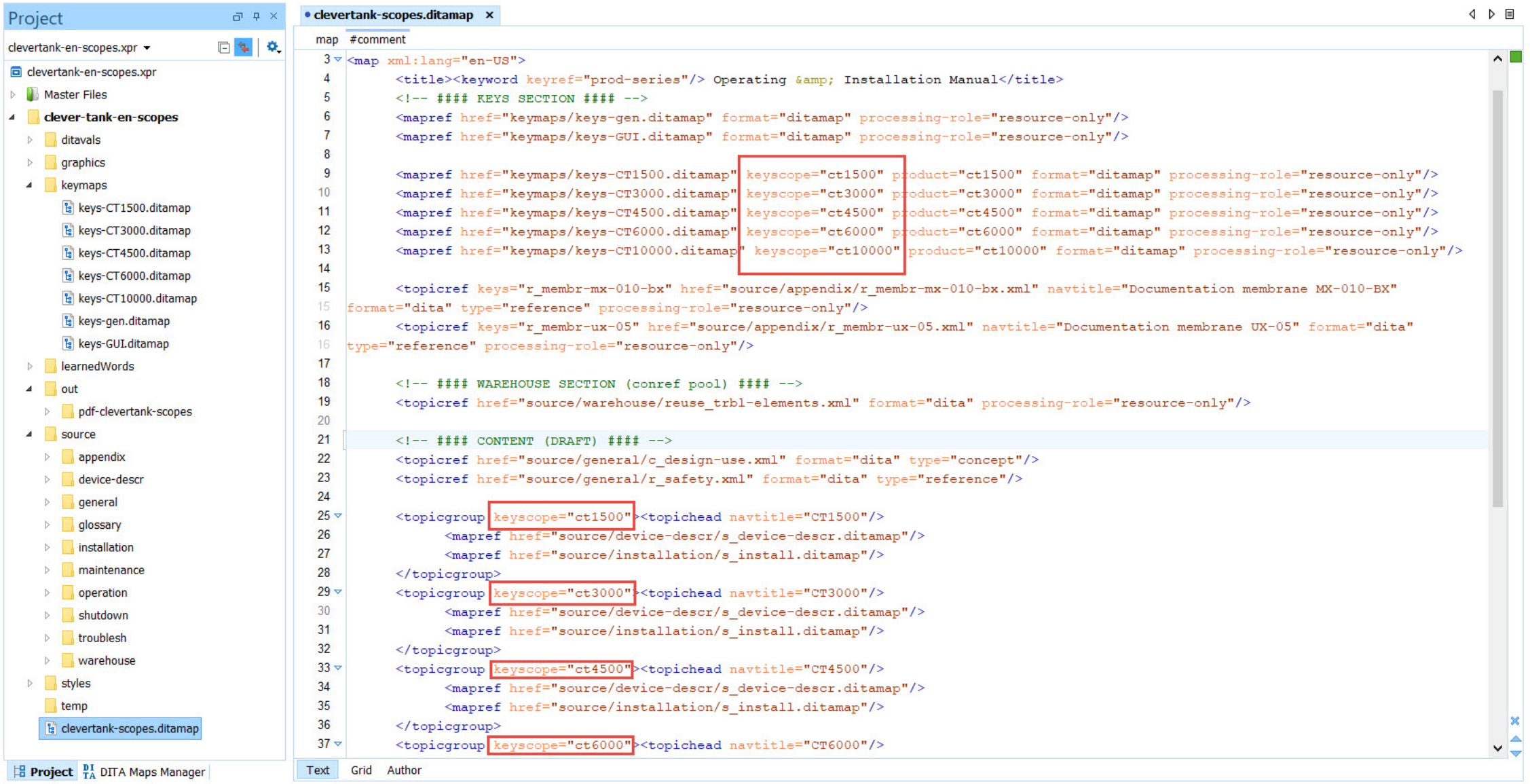
Single-source project: content differences



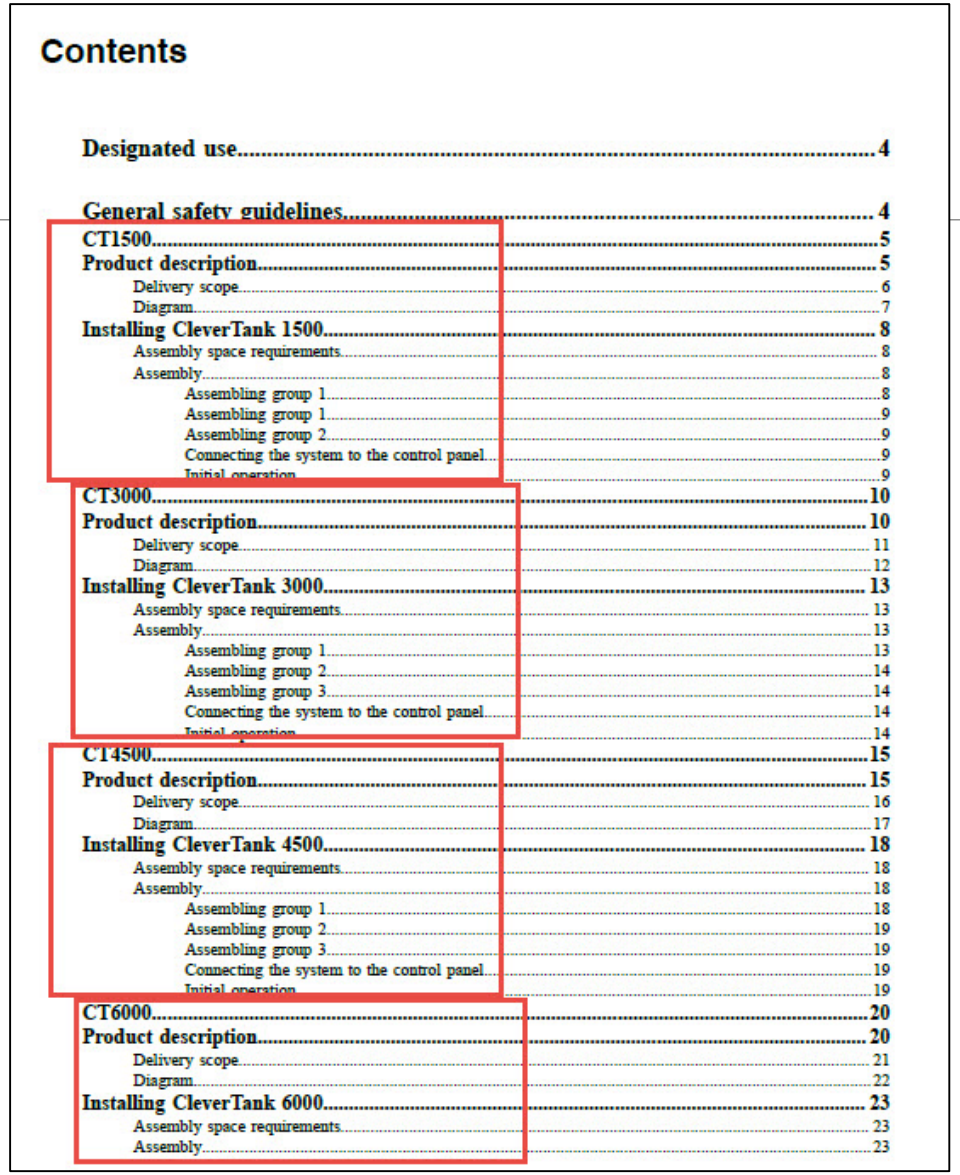
clevertank-three.ditamap | t_assemble-f.xml*

```
1  <?xml version="1.0" encoding="UTF-8"?>
2  <!DOCTYPE task PUBLIC "-//OASIS//DTD DITA Task//EN" "task.dtd">
3  <task xml:lang="en-US" id="i3v_rjb_41b">
4        <title>Assembling group <keyword keyref="group-num-f"/></title>
5        <taskbody>
6              <steps>
7                    <step>
8                          <cmd>Connect the grey water filtration overflow to the on-site wastewater line.</cmd>
9                    </step>
10                   <step otherprops="tank-f-connect">
11                         <cmd>Mount the corresponding connecting lines for venting on top of the filtering tanks (<keyword
11 keyref="f-tanks"/> pcs), and the lines for levelling at the front of the tanks.</cmd>
12                   </step>
13                   <step>
14                         <cmd>Connect vent.</cmd>
15                         <info><p>In addition, the assembly group with tank <keyword keyref="group-num-before-f"/> must be vented via an
15 accompanying connection to assembly group <keyword keyref="group-num-f" /><ph otherprops="tank-f-connect"> i.e the first tank in this
15 group to the last tank in group <keyword keyref="group-num-before-f"/></ph>.</p></info>
16                   </step>
17                   <step>
18                         <cmd>Connect the tube of the feed pump<ph otherprops="tank-gw-connect"> (<keyword keyref="gw-pumps"/> pcs)</ph>.
18 </cmd>
19                   </step>
```

Keyscopes: all five products in one output



Keyscopes: all five products in one output



Contents

Was it worth it?

Go as far as your team can cope with.

For *Author eXperience*, make keys:

- easy to find
- easy to understand
- easy to use

Keys will keep you fast, flexible, consistent, efficient.

Resources & Contact

GitHub	https://github.com/dita-users/demo-project
Meetup	https://www.meetup.com/de-DE/DITA-Anwender-Bodensee/

Twitter	@thinkDITA
Blog	www.think-dita.com
Email	think-dita@email.de

DITA-ANWENDER
BODENSEE

Thank you!