

Keys in action

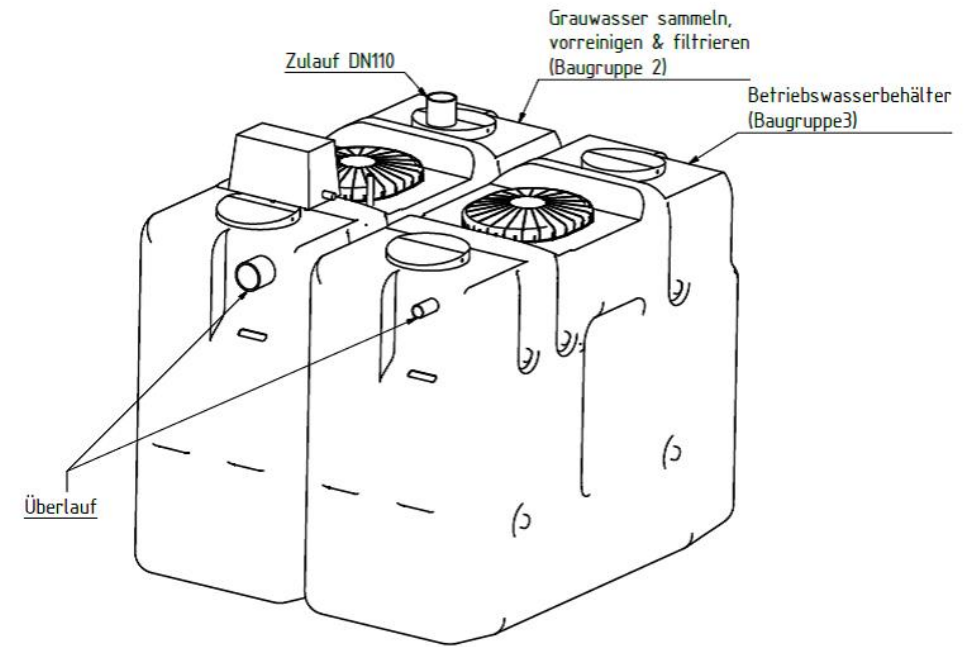
Magda Caloian (@thinkDITA), DITA-Anwender Bodensee

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

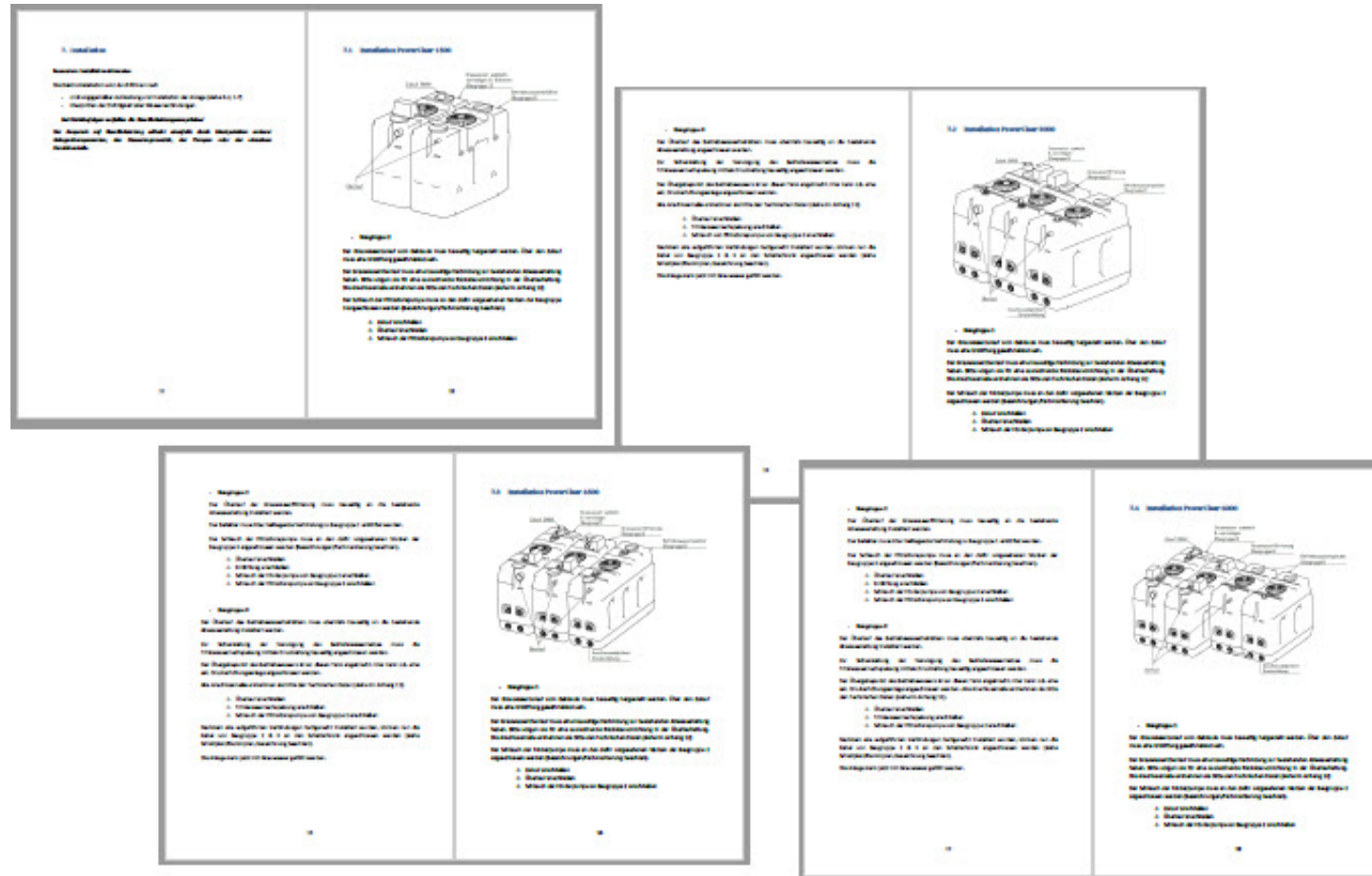
Roadmap 2018:

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



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

Content analysis (based on Word files, DE)



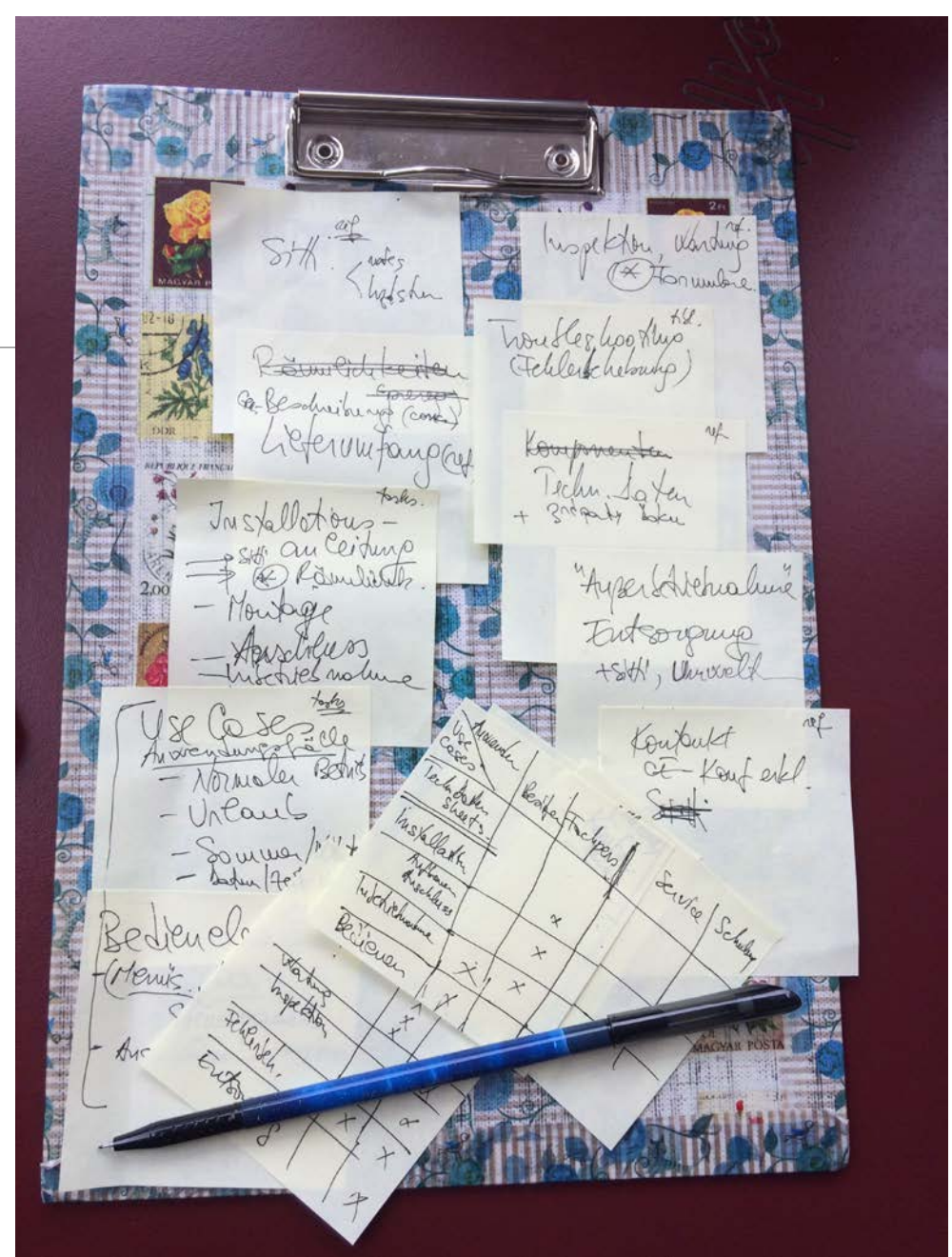
For the scope of the presentation, you'll see the same project under different names (to save more stages).
The goal is: one single-source project.

Content analysis (based on Word files, DE)

Inhaltsmatrix																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
---------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Use cases and task analysis

(the café-style way)



Information modelling (DE)

The screenshot displays the DITA-AB-Meetup interface. At the top, there are navigation tabs for 'Boards', 'Members', and 'Settings'. Below these, three boards are visible: 'CleverTank Architektur' (orange), 'CleverTank Aufgaben' (green), and 'CleverTank Modell' (blue). A 'Create new board...' button is also present.

The 'CleverTank Modell' board is selected, showing a detailed view of its cards. The board header includes the board name, the workspace name 'DITA-AB-Meetup', and various settings like 'Team Visible' and 'Elegantt'. The cards are organized into columns:

- SiHi**: Contains a card labeled 'Add a card...'.
- Gerätebeschreibung**: Contains cards for 'Baugruppen', 'Lieferumfang', and 'Diagram', followed by 'Add a card...'.
- Installationsanleitung**: Contains cards for 'Sicherheitshinweise', 'Checkliste Installationsvoraussetzung Grauwasseranlage', 'Aufstellraum', 'Montage', and 'Erstinbetriebnahme', followed by 'Add a card...'.
- Bedienungsanleitungen**: Contains cards for 'Normaler Betrieb' (with a progress indicator '0/6'), 'Urlaubsmodus', 'Sommer- und Winterbetrieb', 'Datum und Zeit umstellen', 'Bedienelemente' (with a progress indicator '0/2'), and 'Add a card...'.
- Inspektion und**: Contains cards for 'Checklisten', 'Formulare', and 'Add a card...'.

Information architecture (DE)

The screenshot displays the 'CleverTank Architektur' DITA-AB-Meetup interface. The top navigation bar includes the project name, a star icon, 'Team Visible', 'Elegant!', and a double arrow icon. The main content area is organized into several columns, each representing a different DITA map or resource.

- CleverTank.xpr**: Contains 'Publikation-Szenarien' (0/6) and 'CleverTank-BIA.ditamap'.
- de/topics**: Contains 'allgemein' (0/4), 'sihi', 'beschreibung' (0/3), 'install' (0/3), 'bedienung' (0/3), 'wartung' (0/3), 'fehlerbehebung' (0/2), and 'dritt-doku' (0/8).
- de/keymaps**: Contains 'keys-allg.ditamap', 'keys-GUI.ditamap', 'keys-CT1500.ditamap', 'keys-CT3000.ditamap', 'keys-CT4500.ditamap', 'keys-CT6000.ditamap', and 'keys-CT10000.ditamap'.
- de/res**: Contains 'styles-Ordner', 'Grafiken-Ordner', 'Formulare-Ordner', and 'Add a card...'.
- de/ditaval**: Contains 'CT1500.ditaval', 'CT3000.ditaval', 'CT4500.ditaval', 'CT6000.ditaval', and 'CT10000.ditaval'.
- Attributwerte**: Contains '@product', '@audience', '@otherprops', and '@deliveryTarget'.
- Redakti**: Contains 'Add a card...'.

Building the oXygen Project

Try out model2dita:

<https://github.com/mgcalo/model2dita>

The screenshot displays the oXygen XML Editor interface. On the left, the 'Project' pane shows a tree structure for 'clevertank.xpr'. The tree includes folders like 'clever-tank', 'keymaps', 'out', and 'source'. Under 'source', there are subfolders like 'anhang', 'ausserbetriebnahme', and 'bedienungsanleitungen'. The 'bedienungsanleitungen' folder contains several XML files, including 'r_bedienelemente.xml', 'r_schaltschrank.xml', 'r_steuerung.xml', 's_bedienungsanleitungen.ditamap', 't_bedienungsanleitungen.xml', 't_datum-und-zeit-umstellen.xml', 't_normaler-betrieb.xml', 't_sommer--und-winterbetrieb.xml', and 't_urlaubsmodus.xml'. The main editor pane shows the content of 'clevertank.ditamap'. The map is an XML document with a title 'CleverTank Betriebsanleitung' and a 'KEYS SECTION' containing several keymap references. The 'CONTENT' section contains several source references to various DITA maps, such as 'source/sicherheitshinweise/s_sicherheitshinweise.ditamap', 'source/geraetebeschreibung/s_geraetebeschreibung.ditamap', 'source/installationsanleitung/s_installationsanleitung.ditamap', 'source/bedienungsanleitungen/s_bedienungsanleitungen.ditamap', 'source/inspektion-und-wartung/s_inspektion-und-wartung.ditamap', 'source/fehlerbehebung/s_fehlerbehebung.ditamap', 'source/ausserbetriebnahme/s_ausserbetriebnahme.ditamap', 'source/technische-daten/s_technische-daten.ditamap', 'source/garantie/s_garantie.ditamap', 'source/kontakt/s_kontakt.ditamap', 'source/ce-konformitaetserklaerung/s_ce-konformitaetserklaerung.ditamap', 'source/anhang/s_anhang.ditamap', and 'source/glossar/s_glossar.ditamap'.

Writing content (DE)

The screenshot displays a Trello board named "CleverTank Aufgaben" with a green header bar. The board is organized into four columns: "ToDo", "Doing", "ForReview", and "Done". Each column contains a list of tasks, many of which are preceded by a hamburger menu icon. The "ToDo" column lists tasks like "Schreiben: Inspektion und Wartung" and "Publikationstrecken via OT". The "Doing" column includes "Schreiben: Bedienungsanleitungen" and "Bericht über oXygen als Editor". The "ForReview" column has "Schreiben: Garantie" and "Doku-Analyse". The "Done" column shows "Trello Boards erstellen" and a card with a screenshot of a diagram and the text "Ist der Inhalt der Dateien gleich?". The header bar also features icons for "DITA-AB-Meetup", "Team Visible", and "Elegantt".

CleverTank Aufgaben DITA-AB-Meetup Team Visible Elegantt >>

ToDo

- Schreiben: Inspektion und Wartung
- Schreiben: Außerbetriebnahme
- Mit und ohne CMS?
- Publikationstrecken via OT
- Weitere Publikationen: Word
- Add a card...

Doing

- Schreiben: Bedienungsanleitungen
- Schreiben: Glossar
- Schreiben: Anhang
- Bericht über oXygen als Editor
- Dynamic Information Model (Schematron & Redaktionsleitfaden)
- Bericht über FM als Editor (Markus)
- Weitere Publikationen: InDesign (Maxi)

ForReview

- Schreiben: Garantie
- Doku-Analyse
- Informationsmodell
- Informationsarchitektur
- Schreiben: Fehlerbehebung
- Schreiben: Gerätebeschreibung
- Schreiben: Installationsanleitung
- Schreiben: Technische Daten
- Schreiben: Kontakt

Done

- Trello Boards erstellen
- oXygen-Projekt erstellen
- Projekt in git hochladen
- Ist der Inhalt der Dateien gleich? Sollen wir sie dann ins warehouse tun und mit copy-to referenzieren?
- Add a card

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

Always with keys!

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

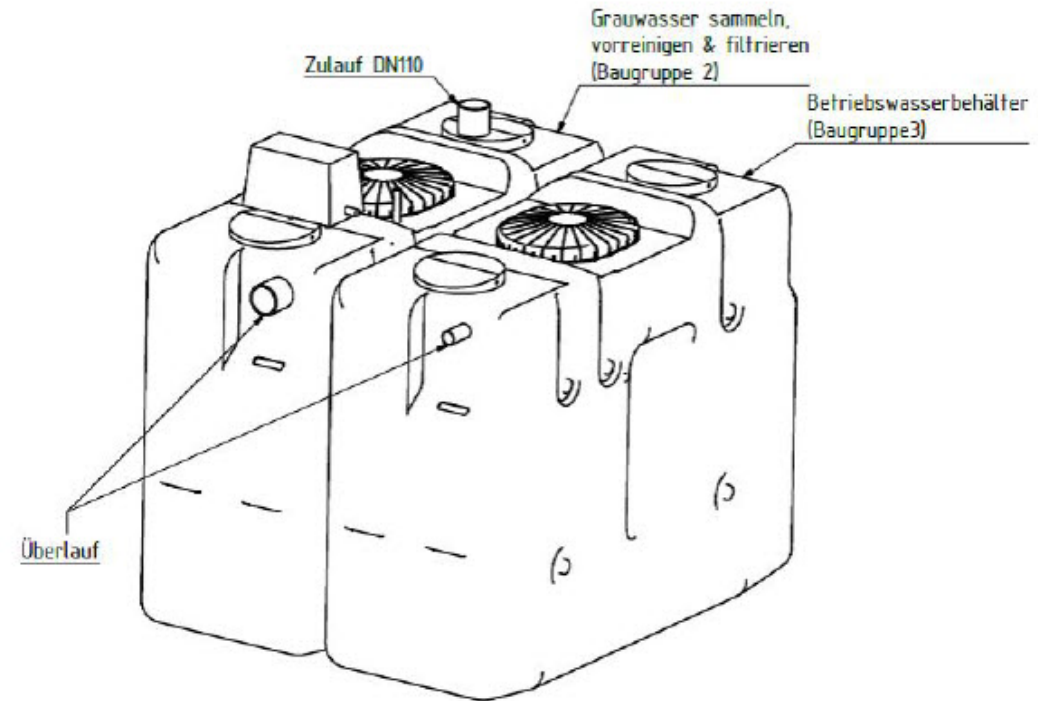


<https://lindseygail10.files.wordpress.com/2013/12/the-time-is-now-procrastination.jpg>

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 **15001**
- 1 x membrane unit
- 1 x ventilation system
- 1 x permeate pump

Group ②

- 1 x tank **15001**
- 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



The screenshot displays a DITA project in a software editor. The left pane shows a project tree for 'clevertank-en-one.xpr'. The tree structure includes 'Master Files', 'clever-tank-en-one', 'graphics', 'keymaps', 'out', and 'source'. The 'keymaps' folder is highlighted with a green box, showing its contents: 'keys-CT1500.ditamap', 'keys-gen.ditamap', and 'keys-GUI.ditamap'. The right pane shows the 'clevertank.ditamap' file with the following XML code:

```
map
1 <?xml version="1.0" encoding="UTF-8"?>
2 <!DOCTYPE map PUBLIC "-//OASIS//DTD DITA Map//EN" "map.dtd">
3 <map xml:lang="en-US">
4   <title><keyword keyref="prod-name"/> Operating & Installation Manual</title>
5   <!-- #### KEYS SECTION #### -->
6   <mapref href="keymaps/keys-gen.ditamap" format="ditamap" processing-role="resource-only"/>
7   <mapref href="keymaps/keys-GUI.ditamap" format="ditamap" processing-role="resource-only"/>
8   <mapref href="keymaps/keys-CT1500.ditamap" product="ct1500" format="ditamap" processing-role="resource-only"/>
9
10  <!-- #### WAREHOUSE SECTION (conref pool) #### -->
11  <topicref href="source/warehouse/reuse_trbl-elements.xml" format="dita" processing-role="resource-only"/>
12
13  <!-- #### CONTENT #### -->
14  <topicref href="source/general/c_design-use.xml" format="dita" type="concept"/>
15  <!-- ToDo: revise notes, use hazardstatements in a safety-warehouse -->
16  <topicref href="source/general/r_safety.xml" format="dita" type="reference"/>
17  <mapref href="source/device-descr/s_device-descr.ditamap"/>
18  <mapref href="source/installation/s_install.ditamap"/>
19  <mapref href="source/operation/s_operation.ditamap"/>
20  <mapref href="source/maintenance/s_maintenance.ditamap"/>
21  <mapref href="source/troublesh/s_trblsh.ditamap"/>
22  <mapref href="source/shutdown/s_disposal.ditamap"/>
23  <topicref keys="r_tech-data" href="source/general/r_tech-data.xml"/>
24  <topicref href="source/general/r_warranty.md" format="markdown"/>
25  <topicref href="source/general/r_contacts.xml"/>
26  <topicref href="source/general/r_ce-conformity.xml"/>
27  <mapref href="source/appendix/s_appendix.ditamap"/>
28  <mapref href="source/glossary/s_glossary.ditamap"/>
29  <!-- #### RELATIONSHIPS TABLE #### -->
30  <reltable>
61 </map>
62
```

A green box highlights the 'KEYS SECTION' in the code, which includes the following lines:

```
<!-- #### KEYS SECTION #### -->
<mapref href="keymaps/keys-gen.ditamap" format="ditamap" processing-role="resource-only"/>
<mapref href="keymaps/keys-GUI.ditamap" format="ditamap" processing-role="resource-only"/>
<mapref href="keymaps/keys-CT1500.ditamap" product="ct1500" format="ditamap" processing-role="resource-only"/>
```


One-product project: keys

• clevertank.ditamape x

CleverTank 1500 Operating & Installation Manual

- keymap: General keys
 - Product
 - prod-series = CleverTank
 - Company
 - company-name = Wassertanktechnik Gmb
 - company-short = WTT
 - Graphics
 - il_membr-mx-010-bx = Membrane unit MX
 - table_membr-mx-010-bx = Membrane unit
 - form_sw-reg = Register service water
 - form_utility-reg = Utility form
- keymap: GUI controls
 - GUI controls
 - ctrl_menu = MENU
 - ctrl_arndown = ▼
 - ctrl_arrup = ▲
 - ctrl_ok = OK
 - led_alarm = ALARM
 - led_power = POWER
 - led_1 = LED1
 - led_2 = LED2
 - led_3 = LED3
 - switch_on = ON
 - switch_off = OFF
- keymap: Product keys CT1500

keymap: Product keys CT1500

- Product
 - prod-name = CleverTank 1500
 - prod-short = CT1500
- Assembly Groups
 - group-num-gw = 1
 - group-num-f = 1
 - group-num-sw = 2
 - group-num-before-gw = 0
 - group-num-after-gw = 2
 - group-num-before-f = 0
 - group-num-after-f = 2
 - group-num-before-sw = 1
 - group-num-after-sw = 3
 - group-num-ctrl = 3
- Tech data
 - gw-tanks = 0
 - gw-tank-vol = 0
 - gw-vents = 0
 - gw-pumps = 0
 - f-tanks = 1
 - f-tank-vol = 1500l
 - f-membs = 1
 - f-vents = 1
 - f-perms = 1
 - sw-tanks = 1
 - sw-tank-vol = 1500l

- Tech data sheet
 - td_hight = ca. 1670mm
 - td_width = ca. 1490mm
 - td_depth = ca. 1880mm
 - td_max-weight = ca. 2850kg
 - td_connect-gw-in = DN110
 - td_connect-gw-over = DN110
 - td_connect-sw-over = DN50
 - td_connect-potw-back-nom = 1" nomin
 - td_connect-potw-back = 20mm
 - td_connect-sw-transf = 2"
 - td_membr-area = 3,2m²
 - td_capacity = ca. 1500l/day
 - td_vol-gw =
 - td_vol-f = approx. 1350l
 - td_vol-sw = approx. 1400l
 - td_supply-volt = 230V/50Hz
 - td_backup-fuse = 16A
 - td_max-power = approx. 300W
- Graphics
 - il_assembly = Illustration CT1500
 - diagram = Diagram CT1500

One-product project: key definitions

@keys values:

Define once and shouldn't change afterwards.

```
3 <map>
4   <title>keymap: Product keys CT1500</title>
5
6   <topicgroup>
7     <topicmeta>
8       <navtitle>Product</navtitle>
9     </topicmeta>
10    <keydef keys="prod-name">
11      <topicmeta>
12        <keywords>
13          <keyword>CleverTank 1500</keyword>
14        </keywords>
15      </topicmeta>
16    </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
6 multiple assembly groups.</p>
7     <fig>
8       <image keyref="il_assembly"/>
9     </fig>
```


One-product project:
where is the key used?

The screenshot shows the DITA Maps Manager interface. On the left, a tree view shows the project structure: Root map: clevertank.ditamap, ap x keys-CT1500.ditamap, keymap: Product keys CT1500, Product (expanded), prod-name = CleverTank 1500, prod-short = CT1500, Assembly Groups, Tech data, Tech data sheet, Graphics. A red box highlights the 'prod-name = CleverTank 1500' entry. A red speech bubble labeled 'Search References' points to this entry. On the right, the XML code for 'clevertank.ditamap' is shown. A red box highlights the line: `<keyword keyref="prod-name"/> Opera`. Below the XML editor, a table titled 'Description - 7 items' lists the following items:

Description
clevertank.ditamap (1 item)
clevertank.ditamap => keys-CT1500.ditamap [KEYREF]
r_ce-conformity.xml (1 item)
r_ce-conformity.xml => keys-CT1500.ditamap [KEYREF]
r_delivery-scope.xml (1 item)
r_delivery-scope.xml => keys-CT1500.ditamap [KEYREF]
r_tech-data.xml (1 item)
r_tech-data.xml => keys-CT1500.ditamap [KEYREF]
t_dispose.xml (1 item)
t_dispose.xml => keys-CT1500.ditamap [KEYREF]
t_install-intro.xml (1 item)
t_install-intro.xml => keys-CT1500.ditamap [KEYREF]
t_shutdown.xml (1 item)
t_shutdown.xml => keys-CT1500.ditamap [KEYREF]

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!

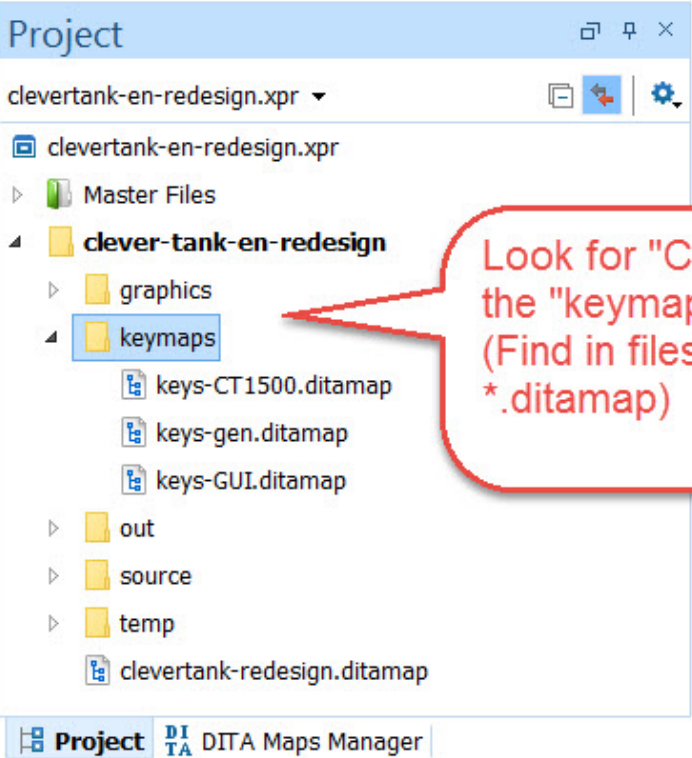
- Product keys
- Graphics keys
- UI keys

II. Renaming/ Redesign

Renaming:

- CleverTank -> SmartTank

Renaming: finding the key values



The screenshot shows the 'Project' window of the DITA Maps Manager. The project is 'clevertank-en-redesign.xpr'. The folder structure is as follows:

- clevertank-en-redesign.xpr
 - Master Files
 - clever-tank-en-redesign
 - graphics
 - keymaps
 - keys-CT1500.ditamap
 - keys-gen.ditamap
 - keys-GUI.ditamap
 - out
 - source
 - temp
 - clevertank-redesign.ditamap

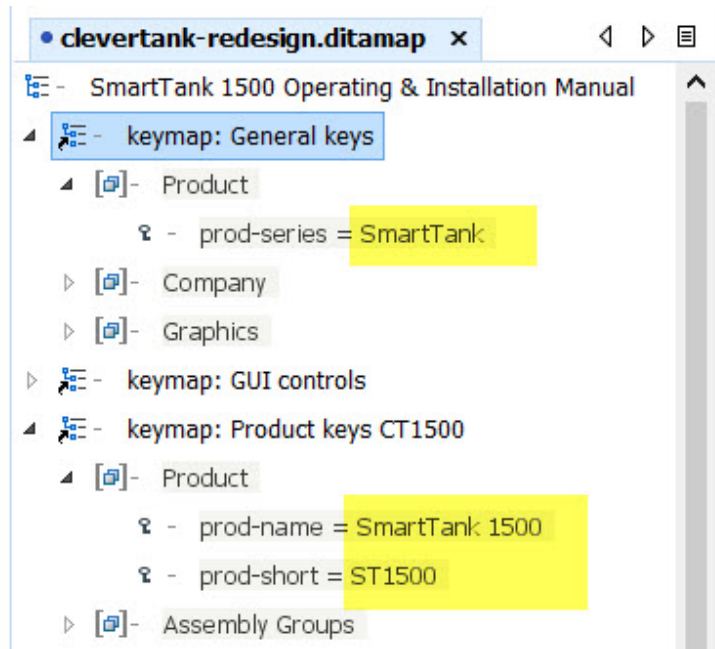
A red callout bubble points to the 'keymaps' folder with the text: "Look for 'CleverTank' in the 'keymaps' folder (Find in files of type *.ditamap)".

Below the project window, the 'Description' pane shows two items:

- C:\Users\mac\Documents\gitprojects\dita-users\clever-tank-en-redesign\keymaps\keys-CT1500.ditamap (1 item)
 - <keyword>CleverTank 1500</keyword>
- C:\Users\mac\Documents\gitprojects\dita-users\clever-tank-en-redesign\keymaps\keys-gen.ditamap (1 item)
 - <keyword>CleverTank</keyword>

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

Renaming: replace key values

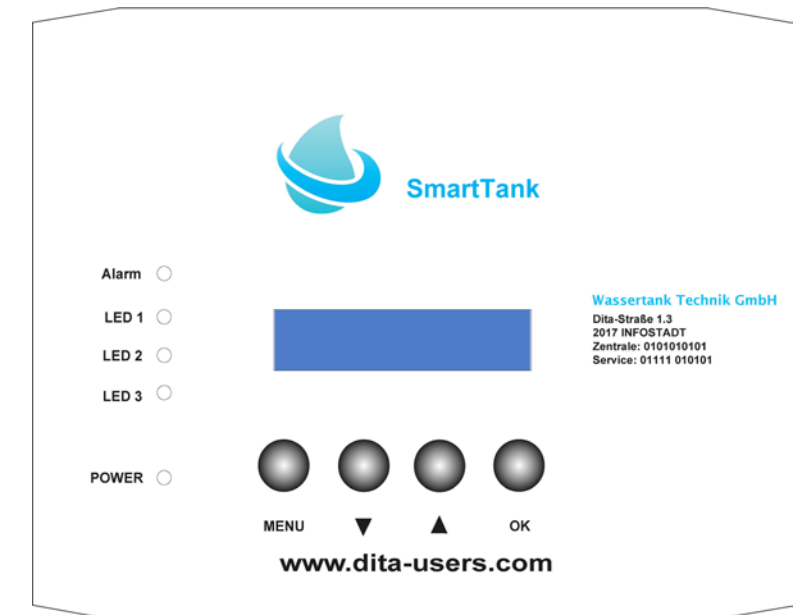
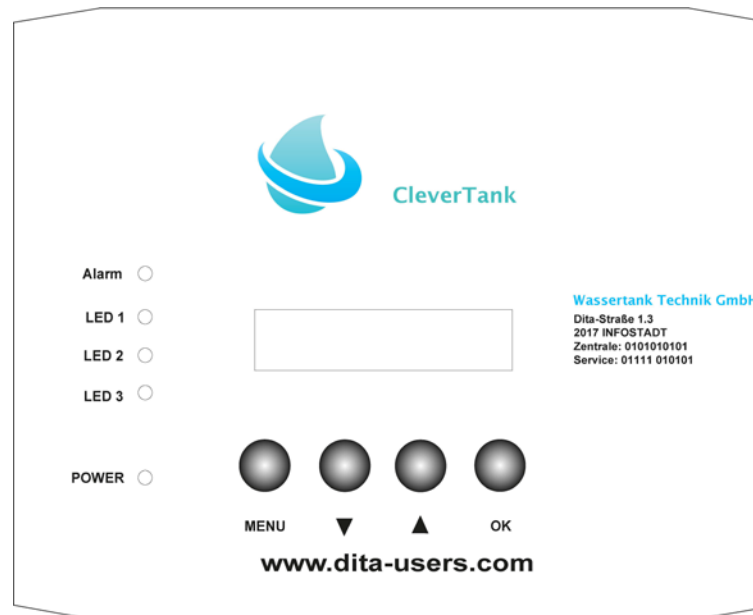


```
3 <map>
4   <title>keymap: General keys</title>
5
6   <topicgroup>
7     <topicmeta>
8       <navtitle>Product</navtitle>
9     </topicmeta>
10    <keydef keys="prod-series">
11      <topicmeta>
12        <keywords>
13          <keyword>SmartTank</keyword>
14        </keywords>
15      </topicmeta>
16    </keydef>
17  </topicgroup>
18
```

II. Renaming/ Redesign

Redesign:

- New panel interface



Renaming: replace key values

Project: clevertank-en-redesign.xpr

- clevertank-en-redesign.xpr
 - Master Files
 - clever-tank-en-redesign
 - graphics
 - diagram-ct1500.tiff
 - form_sw-reg.jpg
 - form_utility-reg.jpg
 - il_ct1500.jpg
 - il_ctrl-panel-ct.jpg
 - il_ctrl-panel-redesign.jpg
 - il_membr-mx-010-bx.png
 - table_membr-mx-010-bx.jpg
 - keymaps
 - keys-CT1500.ditamap
 - keys-gen.ditamap
 - keys-GUI.ditamap
 - out
 - source
 - temp
 - clevertank-redesign.ditamap

1 Remove/ replace the graphic with the new one

2 Edit the keymap

keys-gen.ditamap

```
map topicgroup keydef keydef
37
38     </topicgroup>
39
40     <topicgroup>
41         <topicmeta>
42             <navtitle>Graphics</navtitle>
43         </topicmeta>
44         <keydef keys="">
45             <keydef keys="il_ctrl-panel-ct" href="../graphics/il_ctrl-panel-redesign.jpg" format="JPG" navtitle="Control panel">
46                 <topicmeta>
47                     <navtitle>Control panel</navtitle>
48                     <linktext>Control panel</linktext>
49                 </topicmeta>
50             </keydef>
51         </keydef>
52         <keydef keys="il_membr-mx-010-bx" href="../graphics/il_membr-mx-010-bx.png" format="PNG" navtitle="Membrane unit
53         MX-010-BX">
54             <topicmeta>
55                 <navtitle>Membrane unit MX-010-BX</navtitle>
56                 <linktext>Membrane unit MX-010-BX</linktext>
57             </topicmeta>
58         </keydef>
59         <!-- TODO: remove table-scan and rewrite as text -->
60         <keydef keys="table_membr-mx-010-bx" href="../graphics/table_membr-mx-010-bx.jpg" format="JPG" navtitle="Membrane unit
61         MX-010-BX">
```

II. Renaming/ Redesign

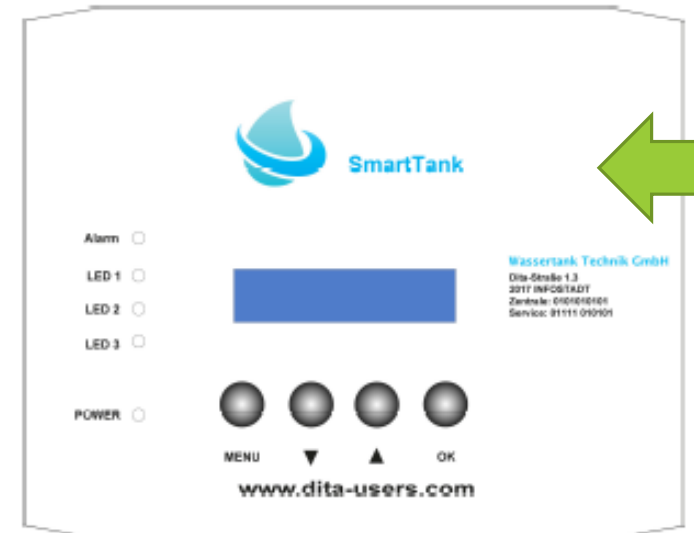
Contents

Designated use.....	4
General safety guidelines.....	4
Product description.....	5
Delivery scope.....	6
Diagram.....	
Installing SmartTank 1500.	
Assembly space requirements.....	
Assembly.....	
Assembling group 1.....	
Assembling group 2.....	
Connecting the system to the control panel.....	
Initial operation.....	
Operating the system.....	
Normal service.....	
Vacation service.....	
Summer and Winter service.....	
Setting date and time.....	
Controls.....	
Switch.....	
Control panel.....	

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...

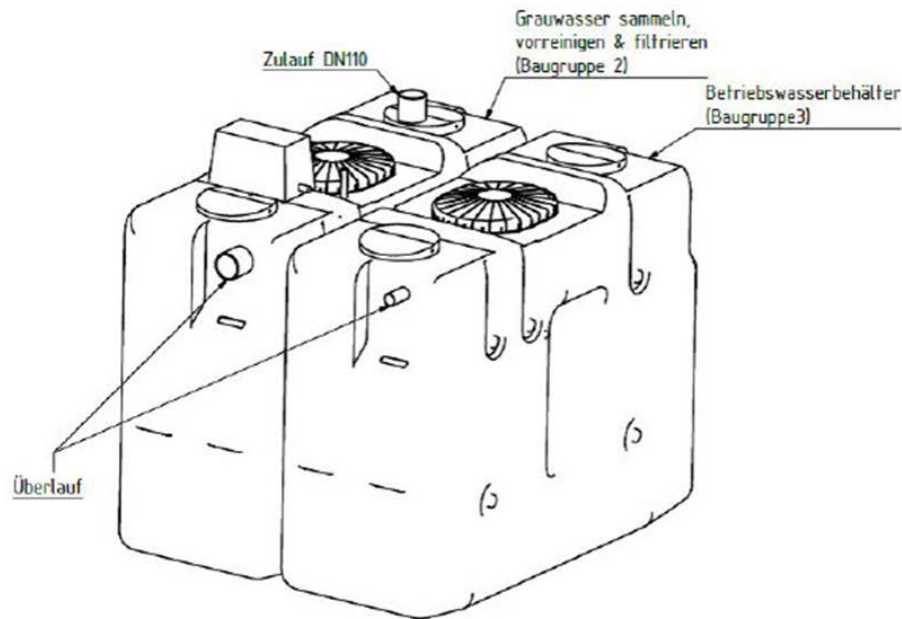
- Product keys
- Graphics keys
- UI keys
- Tech. data keys
- Attributes & DITAVALS

...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.

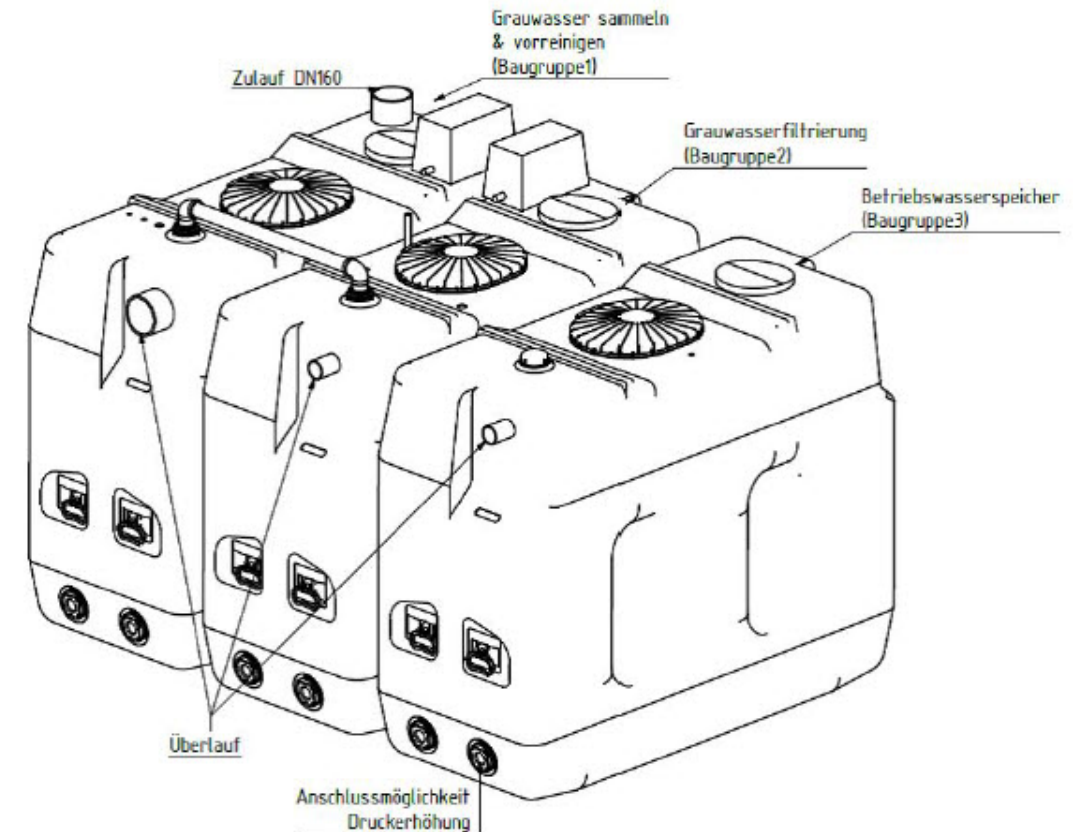
- **Group 2:** Service water storage

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 **15001**
- 1 x membrane unit
- 1 x ventilation system
- 1 x permeate pump

Group 2

- 1 x tank **15001**
- 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 20001
- 1 x ventilation system
- 1 x permeate pump

Group 2

- 1 x tank 20001
- 1 x membrane unit
- 1 x ventilation system
- 1 x permeate pump

Group 3

- 1 x tank 20001
- 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 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.

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

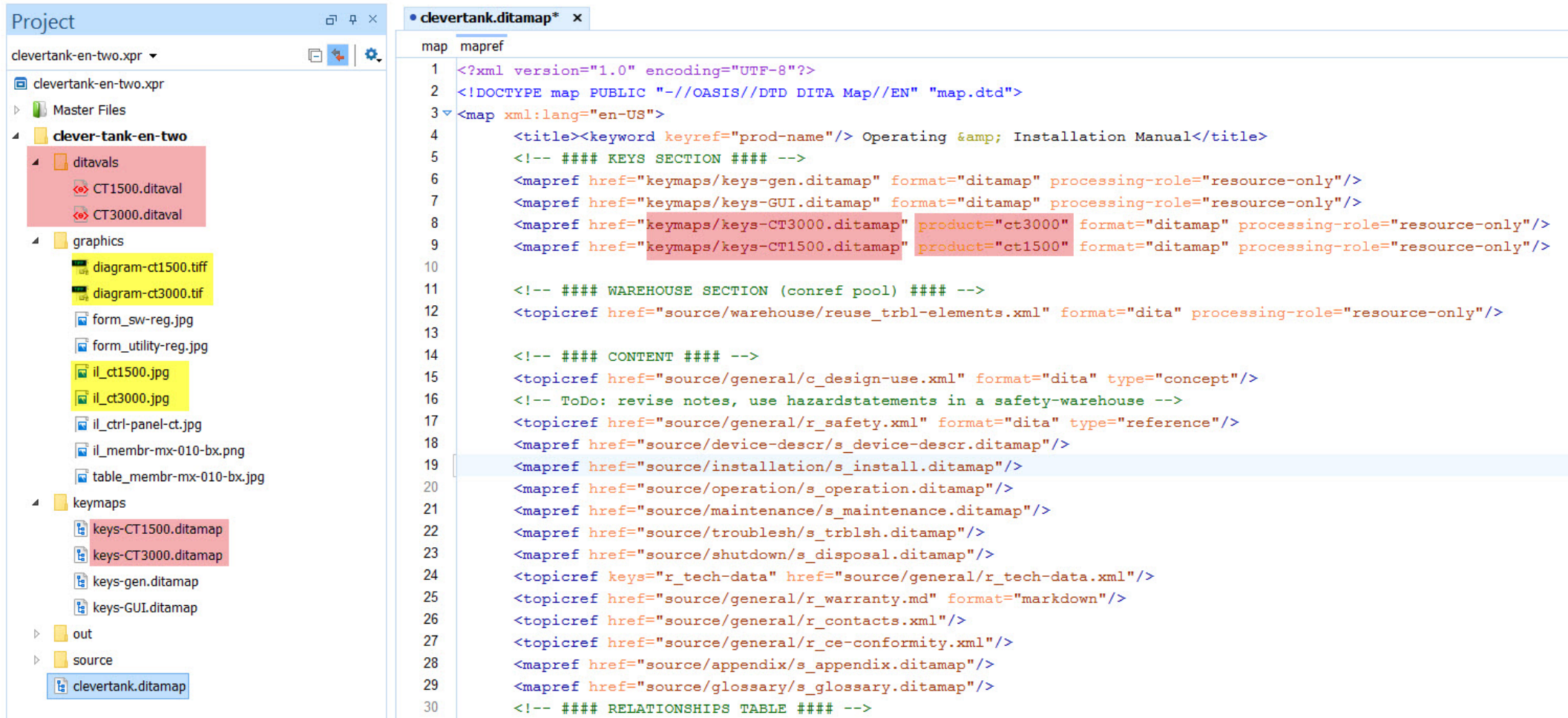
Technical data

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

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

Single-source project: resources for two products



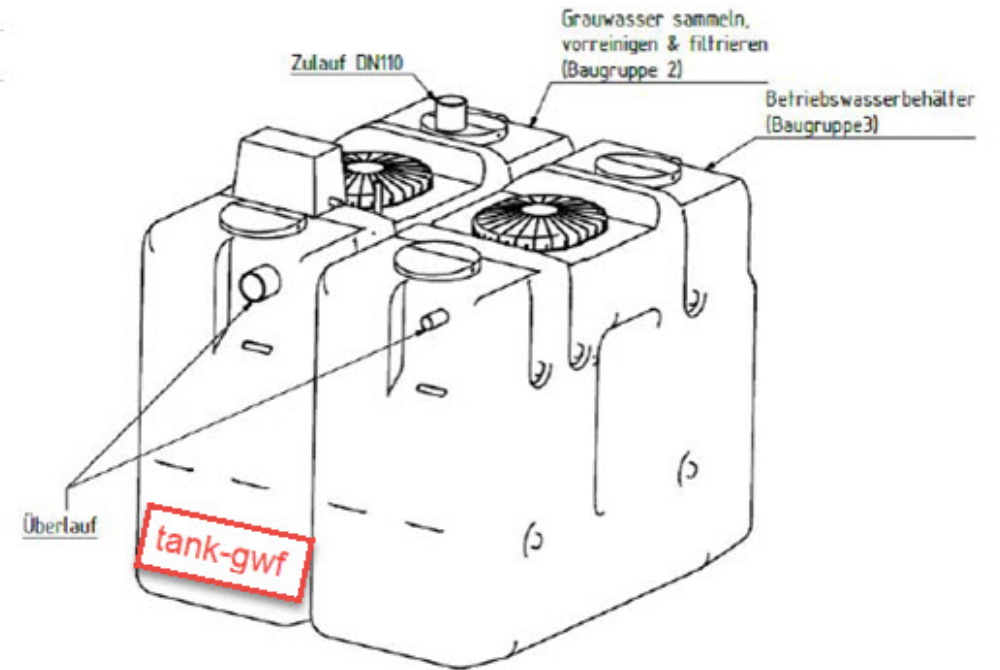
The screenshot displays a DITA project workspace. On the left, a file explorer shows the project structure for 'clevertank-en-two.xpr'. The 'clever-tank-en-two' folder is expanded, revealing subfolders 'ditavals' and 'graphics'. The 'ditavals' folder contains 'CT1500.ditaval' and 'CT3000.ditaval'. The 'graphics' folder contains various image files. The 'keymaps' folder contains 'keys-CT1500.ditamap', 'keys-CT3000.ditamap', 'keys-gen.ditamap', and 'keys-GUI.ditamap'. The 'out' and 'source' folders are also visible. The 'clevertank.ditamap' file is selected in the 'source' folder.

On the right, the 'clevertank.ditamap' file is open, showing the 'mapref' section. The XML content is as follows:

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <!DOCTYPE map PUBLIC "-//OASIS//DTD DITA Map//EN" "map.dtd">
3 <map xml:lang="en-US">
4   <title><keyword keyref="prod-name"/> Operating & Installation Manual</title>
5   <!-- #### KEYS SECTION #### -->
6   <mapref href="keymaps/keys-gen.ditamap" format="ditamap" processing-role="resource-only"/>
7   <mapref href="keymaps/keys-GUI.ditamap" format="ditamap" processing-role="resource-only"/>
8   <mapref href="keymaps/keys-CT3000.ditamap" product="ct3000" format="ditamap" processing-role="resource-only"/>
9   <mapref href="keymaps/keys-CT1500.ditamap" product="ct1500" format="ditamap" processing-role="resource-only"/>
10
11   <!-- #### WAREHOUSE SECTION (conref pool) #### -->
12   <topicref href="source/warehouse/reuse_trbl-elements.xml" format="dita" processing-role="resource-only"/>
13
14   <!-- #### CONTENT #### -->
15   <topicref href="source/general/c_design-use.xml" format="dita" type="concept"/>
16   <!-- ToDo: revise notes, use hazardstatements in a safety-warehouse -->
17   <topicref href="source/general/r_safety.xml" format="dita" type="reference"/>
18   <mapref href="source/device-descr/s_device-descr.ditamap"/>
19   <mapref href="source/installation/s_install.ditamap"/>
20   <mapref href="source/operation/s_operation.ditamap"/>
21   <mapref href="source/maintenance/s_maintenance.ditamap"/>
22   <mapref href="source/troubleshoot/s_trblsh.ditamap"/>
23   <mapref href="source/shutdown/s_disposal.ditamap"/>
24   <topicref keys="r_tech-data" href="source/general/r_tech-data.xml"/>
25   <topicref href="source/general/r_warranty.md" format="markdown"/>
26   <topicref href="source/general/r_contacts.xml"/>
27   <topicref href="source/general/r_ce-conformity.xml"/>
28   <mapref href="source/appendix/s_appendix.ditamap"/>
29   <mapref href="source/glossary/s_glossary.ditamap"/>
30   <!-- #### RELATIONSHIPS TABLE #### -->
```

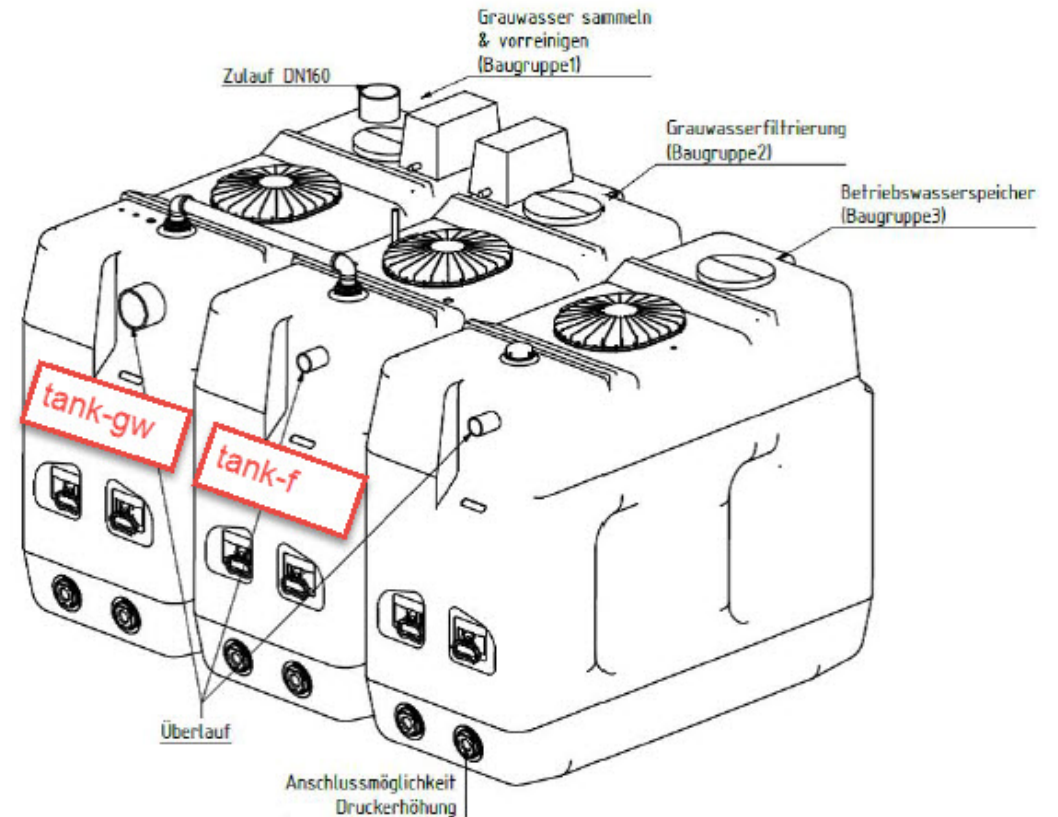
Single-source project: ditavals

```
CT1500.ditaval x
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 x
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
```



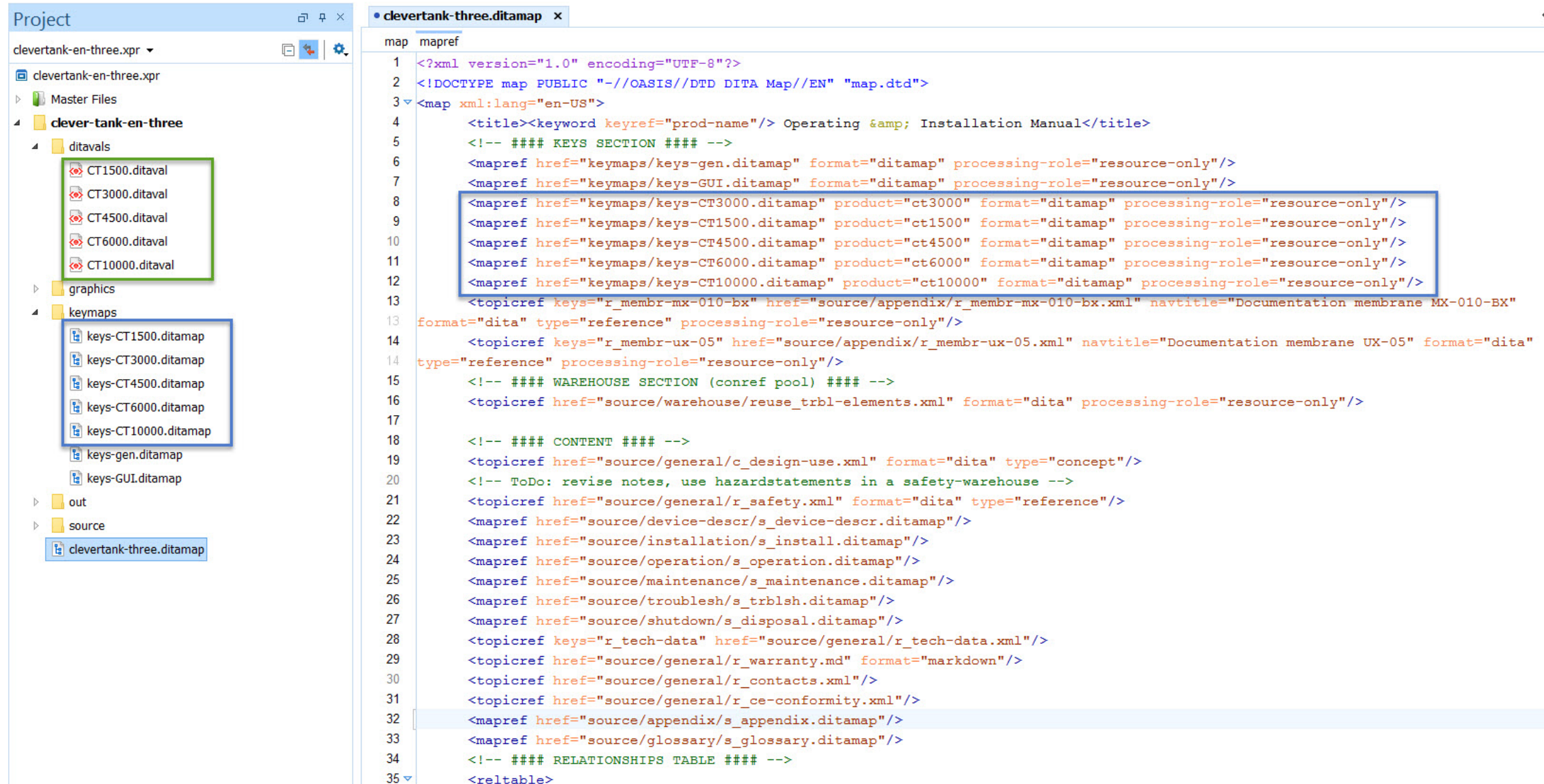
III. Add new products to the project

More...

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

...but (mostly) the same topics

Single-source project: resources for five products



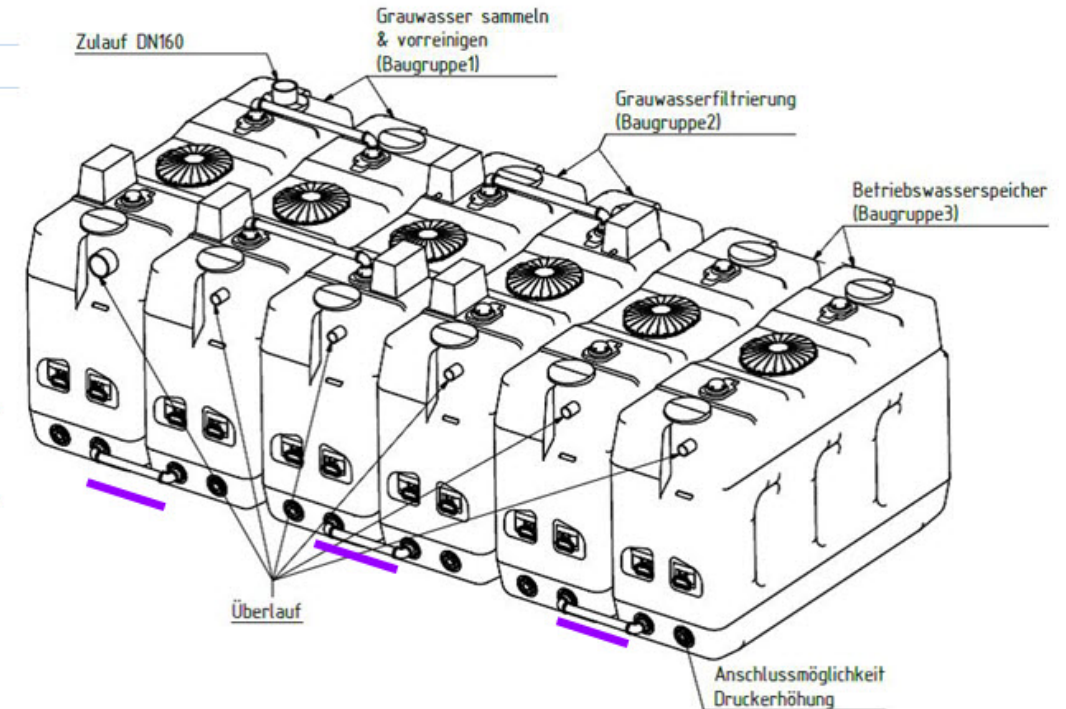
The screenshot displays a DITA project structure and its corresponding mapref file. On the left, the 'Project' pane shows the file hierarchy for 'clevertank-en-three.xpr'. The 'ditavals' folder contains five product-specific files: CT1500.ditaval, CT3000.ditaval, CT4500.ditaval, CT6000.ditaval, and CT10000.ditaval. The 'keymaps' folder contains corresponding keymap files: keys-CT1500.ditamap, keys-CT3000.ditamap, keys-CT4500.ditamap, keys-CT6000.ditamap, keys-CT10000.ditamap, keys-gen.ditamap, and keys-GUI.ditamap. The 'source' folder contains the main mapref file, 'clevertank-three.ditamap'. On the right, the 'clevertank-three.ditamap' file is open, showing its XML content. The file is a DITA map with a title 'Operating & Installation Manual'. It includes a 'KEYS SECTION' with five mapref elements, each linking to a product-specific keymap file and specifying a product ID (ct3000, ct1500, ct4500, ct6000, ct10000). The map also includes a 'WAREHOUSE SECTION' with a topicref element linking to a reuse_trbl-elements.xml file. The map is structured to be reusable across different products.

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <!DOCTYPE map PUBLIC "-//OASIS//DTD DITA Map//EN" "map.dtd">
3 <map xml:lang="en-US">
4   <title><keyword keyref="prod-name"/> Operating & Installation Manual</title>
5   <!-- #### KEYS SECTION #### -->
6   <mapref href="keymaps/keys-gen.ditamap" format="ditamap" processing-role="resource-only"/>
7   <mapref href="keymaps/keys-GUI.ditamap" format="ditamap" processing-role="resource-only"/>
8   <mapref href="keymaps/keys-CT3000.ditamap" product="ct3000" format="ditamap" processing-role="resource-only"/>
9   <mapref href="keymaps/keys-CT1500.ditamap" product="ct1500" format="ditamap" processing-role="resource-only"/>
10  <mapref href="keymaps/keys-CT4500.ditamap" product="ct4500" format="ditamap" processing-role="resource-only"/>
11  <mapref href="keymaps/keys-CT6000.ditamap" product="ct6000" format="ditamap" processing-role="resource-only"/>
12  <mapref href="keymaps/keys-CT10000.ditamap" product="ct10000" format="ditamap" processing-role="resource-only"/>
13  <topicref keys="r_membr-mx-010-bx" href="source/appendix/r_membr-mx-010-bx.xml" navtitle="Documentation membrane MX-010-BX"
14  format="dita" type="reference" processing-role="resource-only"/>
15  <topicref keys="r_membr-ux-05" href="source/appendix/r_membr-ux-05.xml" navtitle="Documentation membrane UX-05" format="dita"
16  type="reference" processing-role="resource-only"/>
17  <!-- #### WAREHOUSE SECTION (conref pool) #### -->
18  <topicref href="source/warehouse/reuse_trbl-elements.xml" format="dita" processing-role="resource-only"/>
19  <!-- #### CONTENT #### -->
20  <topicref href="source/general/c_design-use.xml" format="dita" type="concept"/>
21  <!-- ToDo: revise notes, use hazardstatements in a safety-warehouse -->
22  <topicref href="source/general/r_safety.xml" format="dita" type="reference"/>
23  <mapref href="source/device-descr/s_device-descr.ditamap"/>
24  <mapref href="source/installation/s_install.ditamap"/>
25  <mapref href="source/operation/s_operation.ditamap"/>
26  <mapref href="source/maintenance/s_maintenance.ditamap"/>
27  <mapref href="source/troublesh/s_trblsh.ditamap"/>
28  <mapref href="source/shutdown/s_disposal.ditamap"/>
29  <topicref keys="r_tech-data" href="source/general/r_tech-data.xml"/>
30  <topicref href="source/general/r_warranty.md" format="markdown"/>
31  <topicref href="source/general/r_contacts.xml"/>
32  <topicref href="source/general/r_ce-conformity.xml"/>
33  <mapref href="source/appendix/s_appendix.ditamap"/>
34  <mapref href="source/glossary/s_glossary.ditamap"/>
35  <!-- #### RELATIONSHIPS TABLE #### -->
36  <reftable>
```

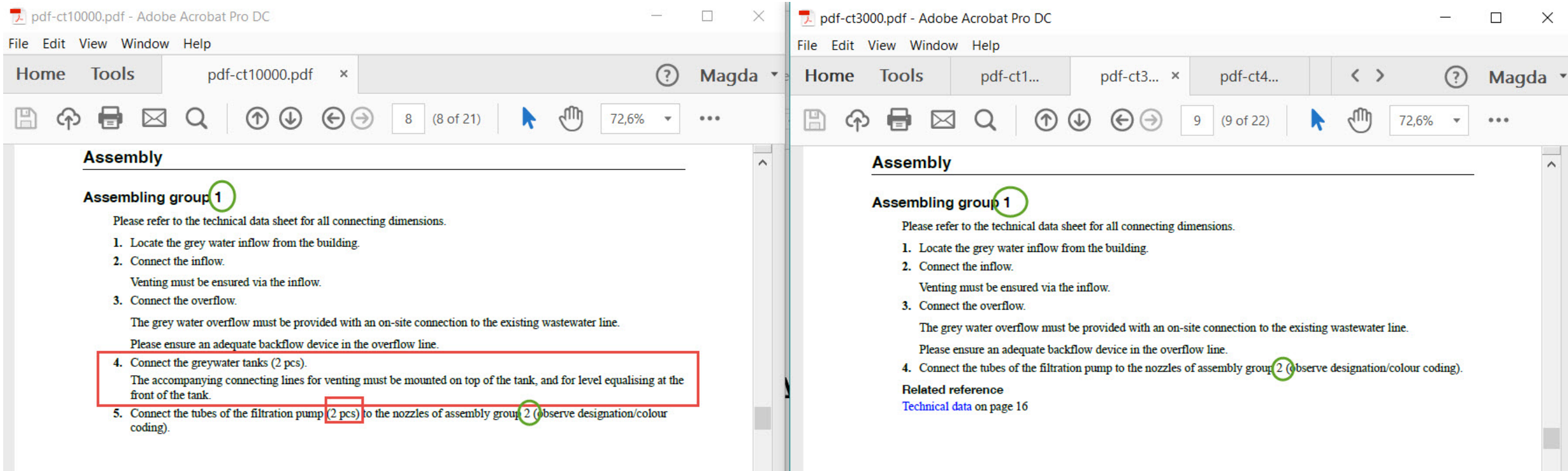
Single-source project: more attributes and ditavals

CT10000.ditaval x

```
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

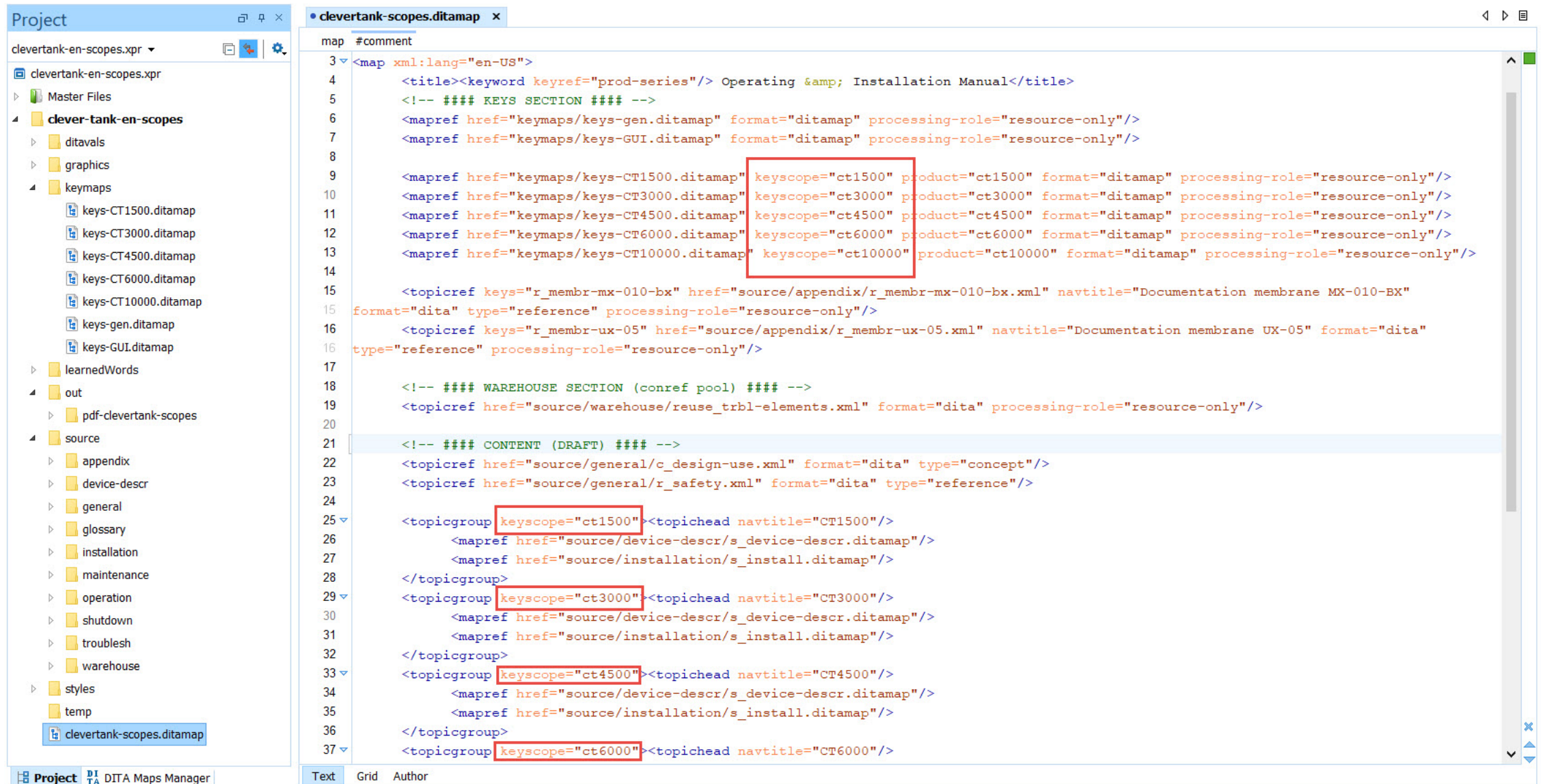
The screenshot displays the DITA Maps Manager interface. On the left, a tree view shows the project structure for 'clevertank-three.ditamap'. The tree includes a 'keymap' section with 'Product keys CT6000' and 'Product keys CT10000', followed by various documentation topics like 'Documentation membrane unit MX-010-BX', 'Dokumentation Membraneinheit UX-05', 'Troubleshooting warehouse', 'Designated use', 'General safety guidelines', 'Product description', and 'Installation instructions'. Under 'Installation instructions', there is a sub-section 'Installing CleverTank 3000' which includes 'Assembly space requirements' and 'Assembly'. The 'Assembly' section is expanded, showing 'Assembling group 1 {t_assemble-gw}', 'Assembling group 2 {t_assemble-f}', 'Assembling group 3 {t_assemble-sw}', 'Connecting the system to the control panel', and 'Initial operation'. The 'Assembling group 2 {t_assemble-f}' is selected.

The main editor area shows the XML content of the selected map fragment, 't_assemble-f.xml'. The XML is a DITA task map with the following structure:

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

The XML content is displayed in a code editor with line numbers on the left. The content is a DITA task map for an assembly group. It includes a title, a task body, and a series of steps. The first step is a command to connect the grey water filtration overflow. The second step is a command to mount connecting lines for venting and levelling, with a highlighted 'otherprops="tank-f-connect"' attribute. The third step is a command to connect the vent, followed by an information block explaining that the assembly group must be vented via an accompanying connection to the assembly group with the keyword 'group-num-f'. The fourth step is a command to connect the tube of the feed pump, with a highlighted 'otherprops="tank-gw-connect"' attribute. The XML is encoded in UTF-8 and uses the DITA Task DTD.

Keyscopes: all five products in one output



The screenshot displays the DITA Maps Manager interface. On the left, the 'Project' pane shows the file structure for 'clevertank-en-scopes.xpr'. The 'keymaps' folder contains five DITAMAP files: keys-CT1500.ditamap, keys-CT3000.ditamap, keys-CT4500.ditamap, keys-CT6000.ditamap, and keys-CT10000.ditamap. The main editor pane shows the content of 'clevertank-scopes.ditamap'. The map includes a title, a keys section with five maprefs, and a content section with five topicgroups. Each topicgroup is associated with a keyscope and a product, and contains two maprefs to device and installation maps. The keyscopes and products are highlighted with red boxes in the original image.

```
map #comment
3 <map xml:lang="en-US">
4   <title><keyword keyref="prod-series"/> Operating & Installation Manual</title>
5   <!-- #### KEYS SECTION #### -->
6   <mapref href="keymaps/keys-gen.ditamap" format="ditamap" processing-role="resource-only"/>
7   <mapref href="keymaps/keys-GUI.ditamap" format="ditamap" processing-role="resource-only"/>
8
9   <mapref href="keymaps/keys-CT1500.ditamap" keyscope="ct1500" product="ct1500" format="ditamap" processing-role="resource-only"/>
10  <mapref href="keymaps/keys-CT3000.ditamap" keyscope="ct3000" product="ct3000" format="ditamap" processing-role="resource-only"/>
11  <mapref href="keymaps/keys-CT4500.ditamap" keyscope="ct4500" product="ct4500" format="ditamap" processing-role="resource-only"/>
12  <mapref href="keymaps/keys-CT6000.ditamap" keyscope="ct6000" product="ct6000" format="ditamap" processing-role="resource-only"/>
13  <mapref href="keymaps/keys-CT10000.ditamap" keyscope="ct10000" product="ct10000" format="ditamap" processing-role="resource-only"/>
14
15  <topicref keys="r_membr-mx-010-bx" href="source/appendix/r_membr-mx-010-bx.xml" navtitle="Documentation membrane MX-010-BX"
16  format="dita" type="reference" processing-role="resource-only"/>
17  <topicref keys="r_membr-ux-05" href="source/appendix/r_membr-ux-05.xml" navtitle="Documentation membrane UX-05" format="dita"
18  type="reference" processing-role="resource-only"/>
19
20  <!-- #### WAREHOUSE SECTION (conref pool) #### -->
21  <topicref href="source/warehouse/reuse_trbl-elements.xml" format="dita" processing-role="resource-only"/>
22
23  <!-- #### CONTENT (DRAFT) #### -->
24  <topicref href="source/general/c_design-use.xml" format="dita" type="concept"/>
25  <topicref href="source/general/r_safety.xml" format="dita" type="reference"/>
26
27  <topicgroup keyscope="ct1500"><topichead navtitle="CT1500"/>
28    <mapref href="source/device-descr/s_device-descr.ditamap"/>
29    <mapref href="source/installation/s_install.ditamap"/>
30  </topicgroup>
31  <topicgroup keyscope="ct3000"><topichead navtitle="CT3000"/>
32    <mapref href="source/device-descr/s_device-descr.ditamap"/>
33    <mapref href="source/installation/s_install.ditamap"/>
34  </topicgroup>
35  <topicgroup keyscope="ct4500"><topichead navtitle="CT4500"/>
36    <mapref href="source/device-descr/s_device-descr.ditamap"/>
37    <mapref href="source/installation/s_install.ditamap"/>
38  </topicgroup>
39  <topicgroup keyscope="ct6000"><topichead navtitle="CT6000"/>
```


Keyscopes: all five products in one output

Contents	
Designated use.....	4
General safety guidelines.....	4
CT1500.....	5
Product description.....	5
Delivery scope.....	6
Diagram.....	7
Installing CleverTank 1500.....	8
Assembly space requirements.....	8
Assembly.....	8
Assembling group 1.....	8
Assembling group 1.....	9
Assembling group 2.....	9
Connecting the system to the control panel.....	9
Initial operation.....	9
CT3000.....	10
Product description.....	10
Delivery scope.....	11
Diagram.....	12
Installing CleverTank 3000.....	13
Assembly space requirements.....	13
Assembly.....	13
Assembling group 1.....	13
Assembling group 2.....	14
Assembling group 3.....	14
Connecting the system to the control panel.....	14
Initial operation.....	14
CT4500.....	15
Product description.....	15
Delivery scope.....	16
Diagram.....	17
Installing CleverTank 4500.....	18
Assembly space requirements.....	18
Assembly.....	18
Assembling group 1.....	18
Assembling group 2.....	19
Assembling group 3.....	19
Connecting the system to the control panel.....	19
Initial operation.....	19
CT6000.....	20
Product description.....	20
Delivery scope.....	21
Diagram.....	22
Installing CleverTank 6000.....	23
Assembly space requirements.....	23
Assembly.....	23

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!