

# Bachelorthesis

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von

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# Erklärung der Selbstständigkeit

Hiermit versichere ich, die vorliegende Arbeit selbstständig verfasst und keine anderen als die angegebenen Quellen und Hilfsmittel benutzt sowie die Zitate deutlich kenntlich gemacht zu haben.

Gießen, den 30. Januar 2014

Dieudonne Timma Meyatchie



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# 1 Einführung

## 1.1 Motivation

In dieser Arbeit wollen wir eine MDD-Infrastruktur für Joomla entwickeln, um die Migration zu erleichtern, und unsere Erweiterungen schneller und besser zu implementieren.

## 1.2 Problembeschreibung

Die Nutzung von Content Management System vereinfachen zwar die Gestaltung von Webapplikation, aber die Migration zu neuen Versionen oder die Verschmelzung von mehreren Instanz stellen von verschiedenen Schwierigkeiten. Deswegen haben wir uns entschieden, eine MDD-Infrastruktur für Joomla zu entwickeln.

## 1.3 Fragestellung

- Wie ist Joomla in cJSL umgesetzt?
- Wie kann man einen Forward-Generator zur Erstellung eines Joomla-Instanz[xte] mit Hilfe von cJSL entwickeln?
- Wie kann man die Daten aus dem cJSL-Instanz Model mit einem Joomla Pakete zusammenbringen?
- Wie kann man die generierte Joomla Instanz installieren?

### 1.4 Ziele dieser Arbeit

Die Ziele dieser Arbeit sind:

- Erstellung einer Abbildung von cJSL zu Joomla
- Implementierung eines Forward-Generator
- Lösungen zur Integration von Daten aus dem cJSL-Instanz Model zu einem Joomla-Pakete und zur Installation der so generierten Joomla-Instanz
- Vorstellung von verschiedenen Einsatzmöglichkeiten

### 1.5 Abgrenzung

- Der Generator begrenzt sich auf dem CMS Joomla 2.5
- Wir betrachten nur die Core-Erweiterungen
- Generiert nur Code für die Datenhaltung und Konfiguration Daten der neuen Instanz.

### 1.6 Vorgehensweise

Zuerst werden wir mit Hilfe von Eclipse Modeling Framework eine MDD-Plattform aufstellen, um den Generator in Xtend zu implementieren. Dann analysieren wir eine Joomla Pakete und eine laufende System, um alle Spezifikation zu merken. Danach untersuchen wie diese Joomla-Spezifikationen in cJSL umgesetzt sind. Mit diesem Ergebnis werden wir unseren Forward-Generator implementieren. Mit Hilfe dieses Forward-Generators können wir verschiedene Migration Strategie für Joomla umsetzen.

### 1.7 Struktur der Arbeit

Die Arbeit besteht aus fünf Kapiteln: im ersten Kapitel "Technologieanalyse" erläutere ich die verschiedenen Technologie und Konzepten wie zum Beispiel MDD-Infrastruktur und EMF, die für diese Arbeit nötig waren. Im zweiten Kapitel "Umsetzung von cJSL in Joomla" untersuche ich cJSL und setze ich es in Joomla um. Im dritten Kapitel "Entwicklung eines cJSL-Forward-Generator" implementiere ich auf Basis von cJSL eines

Forward-Generator für Joomla. Im vierten Kapitel Anwendungsmöglichkeit und Migrationsstrategie stelle ich verschiedene Anwendungsmöglichkeiten und Migrationsstrategie für eine oder mehreren Joomla Instanzen. Im fünften Kapitel "Fazit" mache ich eine Zusammenfassung der Arbeit.



## 2 Technologieanalyse



### 3 Umsetzung von cJSL in Joomla





## 4 Entwicklung eines cJSL-Forward-Generator



## 5 Anwendungsmöglichkeit und Migrationsstrategie

### 5.1 Auswertung

### 5.2 Weitere Ansätze

### 5.3 Nächste Schritte



## 6 Fazit

### 6.1 Ausblick



# Literaturverzeichnis

[xte] *Implementing Domain-Specific Languages with Xtext and Xtend*





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## Listings

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# A Anhang 1

## Menu

### Page

In der Untersuchung von MenuItems in Joomla stellen wir fest, dass es verschiedene Page Type existiert, die dieselben Elementen enthalten. Diese Elemente kommen zwar nicht in allen Items, aber so oft genug, damit wir sie eine extra Entität Menuentry options in der Grammatik widmen. Sie besteht aus selbst den Entitäten "Link type Options", "Page Display Options", "Metadata Options". Ihre Abbildungen sehen folgendermaßen aus:

cJSL	JOOMLA
<ul style="list-style-type: none"> <li>• Link Title Attribute</li> <li>• Link CSS Style</li> <li>• Link Image</li> <li>• Add Menu Title</li> </ul>  - no  yes	<ul style="list-style-type: none"> <li>• menu-anchor_title</li> <li>• menu-anchor_css</li> <li>• menu_image</li> <li>• menu_text</li> </ul>  - 0  1

**Tabelle A.1:** Link Type Options

cJSL	JOOMLA
<ul style="list-style-type: none"> <li>• Browser Page Title</li> <li>• Show Page Heading</li> </ul>  - no  yes <ul style="list-style-type: none"> <li>• Page Heading</li> <li>• Page Class</li> </ul>	<ul style="list-style-type: none"> <li>• page_title</li> <li>• show_page_heading</li> </ul>  - 0  1 <ul style="list-style-type: none"> <li>• page_heading</li> <li>• pageclass_sfx</li> </ul>

**Tabelle A.2:** Page Display Options

cJSL	JOOMLA
<ul style="list-style-type: none"><li>• Meta Description</li><li>• Meta Keywords</li><li>• Robots<ul style="list-style-type: none"><li>- use global</li><li>- index, follow</li><li>- noindex, follow</li><li>- index, nofollow</li><li>- noindex,nofollow</li></ul></li><li>• Secure<ul style="list-style-type: none"><li>- off  on  ignore</li></ul></li></ul>	<ul style="list-style-type: none"><li>• menu-meta__description</li><li>• menu-meta__keywords</li><li>• robots<ul style="list-style-type: none"><li>- Leer</li><li>- index,follow</li><li>- noindex, follow</li><li>- index,nofollow</li><li>- noindex,nofollow</li></ul></li><li>• secure<ul style="list-style-type: none"><li>- -1  1  0</li></ul></li></ul>

**Tabelle A.3:** Metadata Options

### Articelpage

In dem Contianer cJSL\_Articlepage enthält verschiene Entitäten, die im Joomla Menu-item Type darstellen:

- Archived Articles
- Single Article
- List All Categories
- Category Blog
- Category List
- Featured Articles
- Create Article

Sie besitzen nicht nur die obengenannte Itemoptions gemeinsam, sondern auch verschiedene Entitäten, die nur bei Article Page vorkommen:

- Category Options
- Categories Options



- 
- Blog Layout Options
  - Ordering and Pagination Options
  - Article Layout Options
  - Integrations Options
  - ArticleSettingtype
  - OptionSettingtype
  - MaxLevel Setting

Hier haben wir die Abbildung von den obengenannten Elemente: Die ArticleSettingtype -> ArticleStettingvalue, die ArticleOptiontype -> ArticleOptionvalue, und optionSettingtype -> optionSettingValue

cJSL	Joomla
use global	leer
use article setting	use-article
hide	0
show	1

**Tabelle A.4:** ArticleSettingtype

cJSL	Joomla
use global	leer
hide	0
show	1

**Tabelle A.5:** OptionSettingtype

cJSL	Joomla
use global	leer
all	-1
none	0
1-5	1-5

**Tabelle A.6:**  
MaxlevelSettingtype

cJSL	Joomla
<ul style="list-style-type: none"> <li>• Show Feed Link <ul style="list-style-type: none"> <li> - OptionSettingtype</li> </ul> </li> <li>• For each feed item show <ul style="list-style-type: none"> <li> - use global</li> <li> - intro text</li> <li> - full text</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• show_feed_link <ul style="list-style-type: none"> <li> - OptionSettingvalue</li> </ul> </li> <li>• feed_summary <ul style="list-style-type: none"> <li> - leer</li> <li> - 0</li> <li> - 1</li> </ul> </li> </ul>

**Tabelle A.7:** Integration Options

cJSL	Joomla
<ul style="list-style-type: none"><li>• Leading Articles</li><li>• Intro Articles</li><li>• Columns</li><li>• Links</li><li>• Multi Column Order<ul style="list-style-type: none"><li>- use global   down   across</li></ul></li></ul>	<ul style="list-style-type: none"><li>• num_leading_articles</li><li>• num_intro_articles</li><li>• num_columns</li><li>• num_links</li><li>• multi_column_order<ul style="list-style-type: none"><li>- leer  0  1</li></ul></li></ul>

**Tabelle A.8:** Blog Layout Options

cJSL	Joomla
<ul style="list-style-type: none"><li>• Show Top Level Category Description<ul style="list-style-type: none"><li>- OptionSettingtype</li></ul></li><li>• Subcategory Levels<ul style="list-style-type: none"><li>- MaxlevelSettingtype</li></ul></li><li>• Empty Categories<ul style="list-style-type: none"><li>- OptionSettingtype</li></ul></li><li>• Subcategories Descriptions<ul style="list-style-type: none"><li>- OptionSettingtype</li></ul></li></ul>	<ul style="list-style-type: none"><li>• show_base_description<ul style="list-style-type: none"><li>- OptionSettingvalue</li></ul></li><li>• maxLevelcat<ul style="list-style-type: none"><li>- MaxlevelSettingvalue</li></ul></li><li>• show_empty_categories_cat<ul style="list-style-type: none"><li>- OptionSettingvalue</li></ul></li><li>• show_subcat_desc_cat<ul style="list-style-type: none"><li>- OptionSettingvalue</li></ul></li></ul>

**Tabelle A.9:** Categories Options

---

cJSL	Joomla
<ul style="list-style-type: none"> <li>• Category Title <ul style="list-style-type: none"> <li>- OptionSettingtype</li> </ul> </li> <li>• Category Description <ul style="list-style-type: none"> <li>- OptionSettingtype</li> </ul> </li> <li>• Category Image <ul style="list-style-type: none"> <li>- OptionSettingtype</li> </ul> </li> <li>• Subcategory Levels <ul style="list-style-type: none"> <li>- OptionSettingtype</li> </ul> </li> <li>• Empty Categories <ul style="list-style-type: none"> <li>- OptionSettingtype</li> </ul> </li> <li>• Subcategories Descriptions <ul style="list-style-type: none"> <li>- OptionSettingtype</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• show_category_title <ul style="list-style-type: none"> <li>- OptionSettingvalue</li> </ul> </li> <li>• show_description <ul style="list-style-type: none"> <li>- OptionSettingvalue</li> </ul> </li> <li>• show_description_image <ul style="list-style-type: none"> <li>- OptionSettingvalue</li> </ul> </li> <li>• maxLevel <ul style="list-style-type: none"> <li>- OptionSettingvalue</li> </ul> </li> <li>• show_empty_categories <ul style="list-style-type: none"> <li>- OptionSettingvalue</li> </ul> </li> <li>• show_subcat_desc <ul style="list-style-type: none"> <li>- OptionSettingvalue</li> </ul> </li> </ul>

**Tabelle A.10:** Category Options

cJSL	Joomla
<ul style="list-style-type: none"><li>• Display Select<ul style="list-style-type: none"><li>- OptionSettingtype</li></ul></li><li>• Filter Field<ul style="list-style-type: none"><li>- OptionSettingtype</li></ul></li><li>• Table Headings<ul style="list-style-type: none"><li>- OptionSettingtype</li></ul></li><li>• Show Date<ul style="list-style-type: none"><li>- OptionSettingtype</li></ul></li><li>• Date Format</li><li>• Show Hits in List<ul style="list-style-type: none"><li>- OptionSettingtype</li></ul></li><li>• Show Author in List<ul style="list-style-type: none"><li>- OptionSettingtype</li></ul></li></ul>	<ul style="list-style-type: none"><li>• show_pagination_limit<ul style="list-style-type: none"><li>- OptionSettingvalue</li></ul></li><li>• filter_field<ul style="list-style-type: none"><li>- OptionSettingvalue</li></ul></li><li>• show_headings<ul style="list-style-type: none"><li>- OptionSettingvalue</li></ul></li><li>• list_show_date<ul style="list-style-type: none"><li>- OptionSettingvalue</li></ul></li><li>• date_format</li><li>• list_show_hits<ul style="list-style-type: none"><li>- OptionSettingvalue</li></ul></li><li>• list_show_author<ul style="list-style-type: none"><li>- OptionSettingvalue</li></ul></li></ul>

**Tabelle A.11:** List Layout Options

cJSL	Joomla
<ul style="list-style-type: none"> <li>• Category Order <ul style="list-style-type: none"> <li>- Use Global   No order</li> <li>- Title Alphabetial</li> <li>- Title Reverse Alphabetical</li> <li>- Category Manager Order</li> </ul> </li> <li>• Article Order <ul style="list-style-type: none"> <li>- Use Global</li> <li>- Featured Article Order</li> <li>- Most Recent First</li> <li>- Oldest first</li> <li>- Title Alphabetical</li> <li>- Title Reverse Alphabetical</li> <li>- Author Alphabetical</li> <li>- Author Alphabetical Reverse</li> <li>- Most Hits</li> <li>- Least Hits</li> <li>- Article Manager Order</li> </ul> </li> <li>• Date for Ordering <ul style="list-style-type: none"> <li>- use global  created  modified  published</li> </ul> </li> <li>• Pagination <ul style="list-style-type: none"> <li>- use global hide  show auto</li> </ul> </li> <li>• Pagination Results <ul style="list-style-type: none"> <li>- use global  hide  show</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• orderby__pri <ul style="list-style-type: none"> <li>- leer*   none</li> <li>- alpha</li> <li>- ralpha</li> <li>- order</li> </ul> </li> <li>• orderby__sec <ul style="list-style-type: none"> <li>- leer*</li> <li>- front</li> <li>- rdate</li> <li>- date</li> <li>- alpha</li> <li>- ralpha</li> <li>- author</li> <li>- rauthor</li> <li>- hits</li> <li>- rhits</li> <li>- order</li> </ul> </li> <li>• order__date <ul style="list-style-type: none"> <li>- leer   created   modified   published</li> </ul> </li> <li>• show__pagination <ul style="list-style-type: none"> <li>- leer   0   1   2</li> </ul> </li> <li>• show__pagination_results <ul style="list-style-type: none"> <li>- leer   0   1</li> </ul> </li> </ul>

**Tabelle A.12:** Ordering and Pagination Options

cJSL	Joomla
<ul style="list-style-type: none"> <li>• Show Title  - ArticleSettingtype</li> <li>• Link Titles*</li> <li>• Show Intro*</li> <li>• Show Category*</li> <li>• Link Category*</li> <li>• Show Parent Category*</li> <li>• Link parent category*</li> <li>• Show Author*</li> <li>• Link Author*</li> <li>• Show create Date*</li> <li>• Show Modify Date*</li> <li>• Show Publish Date*</li> <li>• Show Item Navigation*</li> <li>• Show Vote*</li> <li>• Show Readmore*</li> <li>• Show Readmore Title*</li> <li>• Show Icons*</li> <li>• Show Print Icon*</li> <li>• Show Email Icon*</li> <li>• Show Hits*</li> <li>• Show Unauthorised Links*</li> </ul>	<ul style="list-style-type: none"> <li>• show_title - ArticleSettingvalue</li> <li>• link_titles*</li> <li>• show_intro*</li> <li>• show_category*</li> <li>• link_category*</li> <li>• show_parent_category*</li> <li>• link_parent_category*</li> <li>• show_author*</li> <li>• link_author*</li> <li>• show_create_date*</li> <li>• show_modify_date*</li> <li>• show_publish_date*</li> <li>• show_item_navigation*</li> <li>• show_vote*</li> <li>• show_readmore*</li> <li>• show_readmore_title*</li> <li>• show_icons*</li> <li>• show_print_icon*</li> <li>• show_email_icon*</li> <li>• show_hits*</li> <li>• show_noauth*</li> </ul>

Tabelle A.13: Article Settings Options

\* bedeutet, dass der Element ArticleSettingtype B.z ArticleSettingvalue als Parameter hat.

cJSL	JOOMLA
<p>1- List all Categories</p> <ul style="list-style-type: none"> <li>• Basic Setting <ul style="list-style-type: none"> <li>- Select a Category</li> </ul> </li> <li>• Categories Options <ul style="list-style-type: none"> <li>+ Top Level Category Description</li> <li>+ Articles in Category <ul style="list-style-type: none"> <li>- OptionSettingtype</li> </ul> </li> </ul> </li> <li>• Category Options <ul style="list-style-type: none"> <li>+ Articles in Category <ul style="list-style-type: none"> <li> - OptionSettingtype</li> </ul> </li> <li>+ No Articles Message <ul style="list-style-type: none"> <li>- OptionSettingtype</li> </ul> </li> </ul> </li> <li>• Blog Layout Options <ul style="list-style-type: none"> <li>+ Include Subcategories <ul style="list-style-type: none"> <li> - MaxlevelSettingType</li> </ul> </li> </ul> </li> <li>• Ordering and Pagination Options</li> <li>• List Layout Options <ul style="list-style-type: none"> <li>+ Articles to List <ul style="list-style-type: none"> <li> - 5 bis 100   all</li> </ul> </li> </ul> </li> <li>• Artikel Layout Options</li> <li>• Integration Options</li> <li>• Menuentry Options</li> </ul>	<p>.List all Categories</p> <ul style="list-style-type: none"> <li>• Required Setting <ul style="list-style-type: none"> <li>- featured_categories</li> </ul> </li> <li>• Categories Options <ul style="list-style-type: none"> <li>+ categories_description</li> <li>+ show_cat_num_articles_cat <ul style="list-style-type: none"> <li> - OptionSettingvalue</li> </ul> </li> </ul> </li> <li>• Category Options <ul style="list-style-type: none"> <li>+ show_cat_num_articles <ul style="list-style-type: none"> <li> - OptionSettingtype</li> </ul> </li> <li>+ show_no_articles <ul style="list-style-type: none"> <li> - OptionSettingvalue</li> </ul> </li> </ul> </li> <li>• Blog Layout Options <ul style="list-style-type: none"> <li>+ show_subcategory_content <ul style="list-style-type: none"> <li> - MaxlevelSettingvalue</li> </ul> </li> </ul> </li> <li>• Ordering and Pagination Options</li> <li>• List Layout Options <ul style="list-style-type: none"> <li>+ display_num <ul style="list-style-type: none"> <li> - 5 bis 100   0</li> </ul> </li> </ul> </li> <li>• Artikel Layout Options</li> <li>• Integration Options</li> <li>• Menuitem Options</li> </ul>
<p>2- Archived Article</p> <ul style="list-style-type: none"> <li>• Basic Setting <ul style="list-style-type: none"> <li>- Article Order (A.12)</li> <li>- Date for Ordering (A.12)</li> <li>- Articles to List (A.11)</li> <li>- Filter Field (A.11)</li> <li>- Intro text Limit</li> </ul> </li> <li>• Artikel Layout Options</li> <li>• Menuentry Options</li> </ul>	<p>2- Archived Article</p> <ul style="list-style-type: none"> <li>• Required Setting <ul style="list-style-type: none"> <li>- orderby_sec (A.12)</li> <li>- order_date (A.12)</li> <li>- display_num (A.11)</li> <li>- filter_field (A.11)</li> <li>- introtext_limit</li> </ul> </li> <li>• Artikel Layout Options</li> <li>• Menuitem Options</li> </ul>

<b>cJSL</b>	<b>JOOMLA</b>
<p>4- Featured Articles</p> <ul style="list-style-type: none"> <li>• Required Setting <ul style="list-style-type: none"> <li>- Select Categories</li> <li>- ...</li> </ul> </li> <li>• Blog Layout Options</li> <li>• Ordering and Pagination Options</li> <li>• Artikel Layout Options</li> <li>• Integration Options</li> <li>• Menuentry Options</li> </ul>	<p>4- Featured Articles</p> <ul style="list-style-type: none"> <li>• Required Setting <ul style="list-style-type: none"> <li>- featured_categories</li> <li>- layout_type</li> </ul> </li> <li>• Blog Layout Options</li> <li>• Ordering and Pagination Options</li> <li>• Artikel Layout Options</li> <li>• Integration Options</li> <li>• Menuitem Options</li> </ul>
<p>5-Category Blog Article</p> <ul style="list-style-type: none"> <li>• Basic Setting <ul style="list-style-type: none"> <li>- Select Categories</li> <li>- ....</li> </ul> </li> <li>• Category Options <ul style="list-style-type: none"> <li>+ Show Subcategories Text <ul style="list-style-type: none"> <li> - OptionSettingsType</li> </ul> </li> <li>+ Page Subheading</li> <li>+ Articles in Category <ul style="list-style-type: none"> <li> - OptionSettingtype</li> </ul> </li> <li>+ No Articles Message <ul style="list-style-type: none"> <li> - OptionSettingtype</li> </ul> </li> </ul> </li> <li>• Blog Layout Options <ul style="list-style-type: none"> <li>+ Include Subcategories <ul style="list-style-type: none"> <li> - MaxlevelSettingType</li> </ul> </li> </ul> </li> <li>• Ordering and Pagination Options</li> <li>• Artikel Layout Options</li> <li>• Integration Options</li> <li>• Menuentry Options</li> </ul>	<p>5- Category Blog Article</p> <ul style="list-style-type: none"> <li>• Basic Setting <ul style="list-style-type: none"> <li>- featured_categories</li> <li>- layout_type</li> </ul> </li> <li>• Category Options <ul style="list-style-type: none"> <li>+ show_category_heading_title_text <ul style="list-style-type: none"> <li> - OptionSettingsValue</li> </ul> </li> <li>+ page_subheading</li> <li>+ show_cat_num_articles <ul style="list-style-type: none"> <li> - OptionSettingtype</li> </ul> </li> <li>+ show_no_articles <ul style="list-style-type: none"> <li> - OptionSettingvalue</li> </ul> </li> </ul> </li> <li>• Blog Layout Options <ul style="list-style-type: none"> <li>+ show_subcategory_content <ul style="list-style-type: none"> <li> - MaxlevelSettingValue</li> </ul> </li> </ul> </li> <li>• Ordering and Pagination Options</li> <li>• Artikel Layout Options</li> <li>• Integration Options</li> <li>• Menuitem Options</li> </ul>



<b>cJSL</b>	<b>JOOMLA</b>
<p>6-Category List Articles</p> <ul style="list-style-type: none"> <li>• Basic Setting <ul style="list-style-type: none"> <li>- Featured Categories</li> </ul> </li> <li>• Category Options <ul style="list-style-type: none"> <li>+ Show Category heading Title <ul style="list-style-type: none"> <li> - OptionSettingsType</li> </ul> </li> <li>+ Page Subheading</li> <li>+ Articles in Category <ul style="list-style-type: none"> <li> - OptionSettingtype</li> </ul> </li> <li>+ No Articles Message <ul style="list-style-type: none"> <li> - OptionSettingtype</li> </ul> </li> </ul> </li> <li>• List Layout Options <ul style="list-style-type: none"> <li>+ Articles to List <ul style="list-style-type: none"> <li> - 5 bis 100   0</li> </ul> </li> </ul> </li> <li>• Ordering and Pagination Options</li> <li>• Artikel Layout Options</li> <li>• Integration Options</li> <li>• Menuentry Options</li> </ul>	<p>6-Category List Articles</p> <ul style="list-style-type: none"> <li>• Basic Setting <ul style="list-style-type: none"> <li>- featured_categories</li> </ul> </li> <li>• Category Options <ul style="list-style-type: none"> <li>+ show_category_heading_title_text <ul style="list-style-type: none"> <li> - OptionSettingsValue</li> </ul> </li> <li>+ page_subheading</li> <li>+ show_cat_num_articles <ul style="list-style-type: none"> <li> - OptionSettingtype</li> </ul> </li> <li>+ show_no_articles <ul style="list-style-type: none"> <li>- OptionSettingvalue</li> </ul> </li> </ul> </li> <li>• List Layout Options <ul style="list-style-type: none"> <li>+ display_num <ul style="list-style-type: none"> <li> - 5 bis 100   0</li> </ul> </li> </ul> </li> <li>• Ordering and Pagination Options</li> <li>• Artikel Layout Options</li> <li>• Integration Options</li> <li>• Menuitem Options</li> </ul>
<p>7-Create Article</p> <ul style="list-style-type: none"> <li>• Basic Setting <ul style="list-style-type: none"> <li>- Default category</li> <li>- Choose a category</li> </ul> </li> <li>• Menuentry Options</li> </ul>	<p>7-Create Article</p> <ul style="list-style-type: none"> <li>• Basic Setting <ul style="list-style-type: none"> <li>- enable_category</li> <li>- catid</li> </ul> </li> <li>• Menuitem Options</li> </ul>
<p>3-Single Article</p> <ul style="list-style-type: none"> <li>• Basic Setting <ul style="list-style-type: none"> <li>- Select Article</li> </ul> </li> <li>• Artikel Layout Options</li> <li>• Integration Options</li> <li>• Menuentry Options</li> </ul>	<p>3-Single Article</p> <ul style="list-style-type: none"> <li>• Required Setting <ul style="list-style-type: none"> <li>- id</li> </ul> </li> <li>• Artikel Layout Options</li> <li>• Integration Options</li> <li>• Menuitem Options</li> </ul>

**UserPage**

Der Container USerpage besteht aus verschiedene Entitäten, die sich um die Darstellung des User widmen:

- Login Form
- User Profile
- Edit User Profile
- Registration Form
- Username Reminder Request
- Password Reset

<b>cJSL</b>	<b>JOOMLA</b>
1- Login Form <ul style="list-style-type: none"><li>• Basic Options<ul style="list-style-type: none"><li>- Login Redirect</li><li>- Login Description<ul style="list-style-type: none"><li> - hide  show</li></ul></li><li>- Login Description Text</li><li>- Login Image</li><li>- Logout Redirect</li><li>- Logout Text<ul style="list-style-type: none"><li> - hide   show</li></ul></li><li>- Logout Description Text</li><li>- Logout image</li></ul></li><li>• Menuentry Options</li></ul>	1- Login Form <ul style="list-style-type: none"><li>• Basic Options<ul style="list-style-type: none"><li>- login_redirect_url</li><li>- logindescription_show<ul style="list-style-type: none"><li> - 0   1</li></ul></li><li>- login_description</li><li>- login_image</li><li>- logout_redirect_url</li><li>- logoutdescription_show<ul style="list-style-type: none"><li> - 0   1</li></ul></li><li>- logout_description</li><li>- logout_image</li></ul></li><li>• Menuitem Options</li></ul>
2- Login Form <ul style="list-style-type: none"><li>• Menuentry Options</li></ul>	2- Login Form <ul style="list-style-type: none"><li>• Menuitem Options</li></ul>

**Tabelle A.21:** Userpage I

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<b>cJSL</b>	<b>JOOMLA</b>
3- User Profile <ul style="list-style-type: none"> <li>• Menuentry Options</li> </ul>	3-User Profile <ul style="list-style-type: none"> <li>• Menuitem Options</li> </ul>
4- Edit User Profile <ul style="list-style-type: none"> <li>• Menuentry Options</li> </ul>	4-Edit User Profile <ul style="list-style-type: none"> <li>• Menuitem Options</li> </ul>
5-Registration Form <ul style="list-style-type: none"> <li>• Menuentry Options</li> </ul>	5-Registration Form <ul style="list-style-type: none"> <li>• Menuitem Options</li> </ul>
6-Username Reminder Request <ul style="list-style-type: none"> <li>• Menuentry Options</li> </ul>	6-Username Reminder Request <ul style="list-style-type: none"> <li>• Menuitem Options</li> </ul>
7-Password Reset <ul style="list-style-type: none"> <li>• Menuentry Options</li> </ul>	7-Password Reset <ul style="list-style-type: none"> <li>• Menuitem Options</li> </ul>

**Tabelle A.23:** Userpages II

## Contacts

Wie schon bei den Articlepage, stellen wir schnell fest, dass es verschiedenen wiederkehrende Elemente gibt, die in ENTitäten umwandeln kann :

- Categories Options
- Category Options
- List Layout Options
- Contact Display Options
- Form for Email Options

cJSL	JOOMLA
<ul style="list-style-type: none"><li>- Show Contact Form<ul style="list-style-type: none"><li> - OptionSettingtype</li></ul></li><li>- Send Copy to Submitter<ul style="list-style-type: none"><li> - OptionSettingtype</li></ul></li><li>- Banned Email</li><li>- Banned Subject</li><li>- Banned Text</li><li>- Session Check<ul style="list-style-type: none"><li> - OptionSettingtype</li></ul></li><li>- Custom Reply<ul style="list-style-type: none"><li> - OptionSettingtype</li></ul></li><li>- Contact Redirect</li></ul>	<ul style="list-style-type: none"><li>- show_email_form<ul style="list-style-type: none"><li> - OptionSettingvalue</li></ul></li><li>- show_email_copy<ul style="list-style-type: none"><li> - OptionSettingvalue</li></ul></li><li>- banned_email</li><li>- banned_subject</li><li>- banned_text</li><li>- validate_session<ul style="list-style-type: none"><li> - OptionSettingtype</li></ul></li><li>- custom_reply<ul style="list-style-type: none"><li> - OptionSettingtype</li></ul></li><li>- redirect</li></ul>

**Tabelle A.25:** Form for Email Options

cJSL	Joomla
<ul style="list-style-type: none"> <li>- Display Select <ul style="list-style-type: none"> <li>  - OptionSettingtype</li> </ul> </li> <li>- Table Headings <ul style="list-style-type: none"> <li>  - OptionSettingtype</li> </ul> </li> <li>- Position <ul style="list-style-type: none"> <li>  - OptionSettingtype</li> </ul> </li> <li>- Email <ul style="list-style-type: none"> <li>  - OptionSettingtype</li> </ul> </li> <li>- Phone <ul style="list-style-type: none"> <li>  - OptionSettingtype</li> </ul> </li> <li>- Mobile <ul style="list-style-type: none"> <li>  - OptionSettingtype</li> </ul> </li> <li>- Fax <ul style="list-style-type: none"> <li>  - OptionSettingtype</li> </ul> </li> <li>- City or Suburb <ul style="list-style-type: none"> <li>  - OptionSettingtype</li> </ul> </li> <li>- State or County <ul style="list-style-type: none"> <li>  - OptionSettingtype</li> </ul> </li> <li>- Country <ul style="list-style-type: none"> <li>  - OptionSettingtype</li> </ul> </li> <li>- Pagination <ul style="list-style-type: none"> <li>  - OptionSettingtype</li> </ul> </li> <li>- Pagination Results <ul style="list-style-type: none"> <li>  - OptionSettingtype</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>- show_pagination_limit <ul style="list-style-type: none"> <li>  - OptionSettingvalue</li> </ul> </li> <li>- show_headings <ul style="list-style-type: none"> <li>  - OptionSettingvalue</li> </ul> </li> <li>- show_position_headings <ul style="list-style-type: none"> <li>  - OptionSettingvalue</li> </ul> </li> <li>- show_email_headings <ul style="list-style-type: none"> <li>  - OptionSettingvalue</li> </ul> </li> <li>- show_telephone_headings <ul style="list-style-type: none"> <li>  - OptionSettingvalue</li> </ul> </li> <li>- show_mobile_headings <ul style="list-style-type: none"> <li>  - OptionSettingvalue</li> </ul> </li> <li>- show_fax_headings <ul style="list-style-type: none"> <li>  - OptionSettingvalue</li> </ul> </li> <li>- show_suburb_headings <ul style="list-style-type: none"> <li>  - OptionSettingvalue</li> </ul> </li> <li>- show_state_headings <ul style="list-style-type: none"> <li>  - OptionSettingvalue</li> </ul> </li> <li>- show_country_headings <ul style="list-style-type: none"> <li>  - OptionSettingvalue</li> </ul> </li> <li>- show_pagination <ul style="list-style-type: none"> <li>  - OptionSettingvalue</li> </ul> </li> <li>- show_pagination_results <ul style="list-style-type: none"> <li>  - OptionSettingvalue</li> </ul> </li> </ul>

**Tabelle A.26:** List Layout Options

cJSL	Joomla
<ul style="list-style-type: none"><li>• Display format<ul style="list-style-type: none"><li>  - use Global   sliders</li><li>  - tabs   plain</li></ul></li><li>• Contact Category<ul style="list-style-type: none"><li>  - use Global   hide</li><li>  - show without link   show with link</li></ul></li><li>• show__contact__list<ul style="list-style-type: none"><li>  - OptionSettingtype</li></ul></li><li>• Name*</li><li>• Contact's Position*</li><li>• Email*</li><li>• Street Address*</li></ul>	<ul style="list-style-type: none"><li>• presentation_style<ul style="list-style-type: none"><li>  - leer   sliders</li><li>  - tabs   plain</li></ul></li><li>• show__contact__category<ul style="list-style-type: none"><li>  - leer   hide</li><li>  - show__without__link   show__with__link</li></ul></li><li>• show__contact__list<ul style="list-style-type: none"><li>  - OptionSettingtvalue</li></ul></li><li>• show__name*</li><li>• show__position*</li><li>• show__email*</li><li>• show__street__address*</li></ul>

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<ul style="list-style-type: none"> <li>• City or Suburb*</li> <li>• State or County*</li> <li>• Postal Code*</li> <li>• Country*</li> <li>• Telephone*</li> <li>• Mobile phone*</li> <li>• Fax*</li> <li>• Webpage*</li> <li>• Misc. Information*</li> <li>• Image*</li> <li>• vCard*</li> <li>• Show User Articles*</li> <li>• Show Links*</li> <li>• Link A Label</li> <li>• Link B Label</li> <li>• Link C Label</li> <li>• Link D Label</li> <li>• Link E Label</li> </ul>	<ul style="list-style-type: none"> <li>• show_suburb*</li> <li>• show_state*</li> <li>• show_postcode*</li> <li>• show_country*</li> <li>• show_telephone*</li> <li>• show_mobile*</li> <li>• show_fax*</li> <li>• show_webpage*</li> <li>• show_misc*</li> <li>• show_image*</li> <li>• allow_vcard*</li> <li>• show_articles*</li> <li>• show_links*</li> <li>• linka_name</li> <li>• linkb_name</li> <li>• linkc_name</li> <li>• linkd_name</li> <li>• linke_name</li> </ul>
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**Tabelle A.28:** Contact Display Options

cJSL	Joomla
<p>1- List all Categories</p> <ul style="list-style-type: none"><li>• Basic Setting<ul style="list-style-type: none"><li>- Select a Category</li></ul></li><li>• Categories Options<ul style="list-style-type: none"><li>+ Top Level Category Description</li><li>+ Contacts in Category<ul style="list-style-type: none"><li>- OptionSettingtype</li></ul></li></ul></li><li>• Category Options</li><li>+ Contacts in Category<ul style="list-style-type: none"><li>- OptionSettingtype</li></ul></li><li>• Contact List Layouts</li><li>• Contact Display Options</li><li>• Form for Email Options</li><li>• Integration Options</li><li>• Menuentry Options</li></ul>	<p>1- List all Categories</p> <ul style="list-style-type: none"><li>• Basic Setting<ul style="list-style-type: none"><li>- categorie_id</li></ul></li><li>• Categories Options<ul style="list-style-type: none"><li>+ categories_description</li><li>+ show_cat_items_cat<ul style="list-style-type: none"><li>- OptionSettingtype</li></ul></li></ul></li><li>• Category Options</li><li>+ show_cat_items<ul style="list-style-type: none"><li>- OptionSettingtype</li></ul></li><li>• Contact List Layouts</li><li>• Contact Display Options</li><li>• Form for Email Options</li><li>• Integration Options</li><li>• Menuentry Options</li></ul>

**Tabelle A.29:** Contact List All Category



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cJSL	Joomla
1- List contact in a Category <ul style="list-style-type: none"> <li>• Basic Setting <ul style="list-style-type: none"> <li>- Select a Category</li> </ul> </li> <li>• Category Options</li> </ul> + Contacts in Category <ul style="list-style-type: none"> <li>- OptionSettingtype</li> </ul> <ul style="list-style-type: none"> <li>• Contact List Layouts</li> <li>• Contact Display Options</li> <li>• Form for Email Options</li> <li>• Integration Options</li> <li>• Menuentry Options</li> </ul>	1- List contact in a Category <ul style="list-style-type: none"> <li>• Basic Setting <ul style="list-style-type: none"> <li>- categorie_id</li> </ul> </li> <li>• Category Options</li> </ul> + show_cat_items <ul style="list-style-type: none"> <li>- OptionSettingtype</li> </ul> <ul style="list-style-type: none"> <li>• Contact List Layouts</li> <li>• Contact Display Options</li> <li>• Form for Email Options</li> <li>• Integration Options</li> <li>• Menuentry Options</li> </ul>

**Tabelle A.30:** List contact in a Category

cJSL	Joomla
1- List contact in a Category <ul style="list-style-type: none"> <li>• Basic Setting <ul style="list-style-type: none"> <li>- Select a Contact</li> </ul> </li> <li>• Contact Display Options</li> <li>• Form for Email Options</li> <li>• Menuentry Options</li> </ul>	1- Single Contact <ul style="list-style-type: none"> <li>• Basic Setting <ul style="list-style-type: none"> <li>- contact_id</li> </ul> </li> <li>• Contact Display Options</li> <li>• Form for Email Options</li> <li>• Menuentry Options</li> </ul>

**Tabelle A.31:** Single Contact

cJSL	Joomla
1- Featured Contact <ul style="list-style-type: none"><li>• Contact List Layouts</li><li>• Contact Display Options</li><li>• Form for Email Options</li><li>• Menuentry Options</li></ul>	1- Featured Contact <ul style="list-style-type: none"><li>• Contact List Layouts</li><li>• Contact Display Options</li><li>• Form for Email Options</li><li>• Menuentry Options</li></ul>

**Tabelle A.32:** Featured Contact

**Web Links** Wie schon bei anderen Pages bzw Menupunkt filtern wir erstmal die wiederkehrenden Elementen aus dieser Menu-Categorie: Categories Options, Category Options, List Layout Options,und Menuentry Options.

cJSL	Joomla
<ul style="list-style-type: none"><li>• Display Select<ul style="list-style-type: none"><li>- OptionSettingtype</li></ul></li><li>• Table Headings<ul style="list-style-type: none"><li>- OptionSettingtype</li></ul></li><li>• Links description<ul style="list-style-type: none"><li>- OptionSettingtype</li></ul></li><li>• Hits<ul style="list-style-type: none"><li>- OptionSettingtype</li></ul></li><li>• Pagination<ul style="list-style-type: none"><li>- OptionSettingtype</li></ul></li><li>• Pagination Results<ul style="list-style-type: none"><li>- OptionSettingtype</li></ul></li></ul>	<ul style="list-style-type: none"><li>• show_pagination_limit<ul style="list-style-type: none"><li>- OptionSettingvalue</li></ul></li><li>• show_headings<ul style="list-style-type: none"><li>- OptionSettingvalue</li></ul></li><li>• show_link_description<ul style="list-style-type: none"><li>- OptionSettingvalue</li></ul></li><li>• show_link_hits<ul style="list-style-type: none"><li>- OptionSettingvalue</li></ul></li><li>• show_pagination<ul style="list-style-type: none"><li>- OptionSettingvalue</li></ul></li><li>• show_pagination_results<ul style="list-style-type: none"><li>- OptionSettingvalue</li></ul></li></ul>

**Tabelle A.33:** Web Link List Layout

cJSL	Joomla
1- List All Web Link Categories <ul style="list-style-type: none"> <li>• Basic Setting <ul style="list-style-type: none"> <li>- Select a Category Level</li> </ul> </li> <li>• Categories Options <ul style="list-style-type: none"> <li>+ Top Level Category Description</li> <li>+ Show /Hide the number of Web Links <ul style="list-style-type: none"> <li>- OptionSettingtype</li> </ul> </li> </ul> </li> <li>• Category Options</li> </ul> + Weblink in Category <ul style="list-style-type: none"> <li>- OptionSettingtype</li> </ul> <ul style="list-style-type: none"> <li>• Weblink List Layouts</li> <li>• Menuentry Options</li> </ul>	1- List All Web Link Categories <ul style="list-style-type: none"> <li>• Basic Setting <ul style="list-style-type: none"> <li>- categorie_id</li> </ul> </li> <li>• Categories Options <ul style="list-style-type: none"> <li>+ categories_description</li> <li>+ show_cat_num_links_cat <ul style="list-style-type: none"> <li>- OptionSettingtype</li> </ul> </li> </ul> </li> <li>• Category Options</li> </ul> + show_cat_num_links <ul style="list-style-type: none"> <li>- OptionSettingtype</li> </ul> <ul style="list-style-type: none"> <li>• Weblinks List Layouts</li> <li>• Menuentry Options</li> </ul>

**Tabelle A.34:** Weblinks List All Categories

cJSL	Joomla
1- List Web Link Category <ul style="list-style-type: none"> <li>• Basic Setting <ul style="list-style-type: none"> <li>- Select a Category</li> </ul> </li> <li>• Category Options</li> </ul> + Weblink in Category <ul style="list-style-type: none"> <li>- OptionSettingtype</li> </ul> <ul style="list-style-type: none"> <li>• Weblink List Layouts</li> <li>• Integration Options</li> <li>• Menuentry Options</li> </ul>	1- List Web Link Category <ul style="list-style-type: none"> <li>• Basic Setting <ul style="list-style-type: none"> <li>- categorie_id</li> </ul> </li> <li>• Category Options</li> </ul> + show_cat_num_links <ul style="list-style-type: none"> <li>- OptionSettingvalue</li> </ul> <ul style="list-style-type: none"> <li>• Weblinks List Layouts</li> <li>• Integration Options</li> <li>• Menuentry Options</li> </ul>

**Tabelle A.35:** List Web Link Category

<b>cJSL</b>	<b>Joomla</b>
1- Submit a Web Link <ul style="list-style-type: none"><li>• Menuentry Options</li></ul>	1- Submit a Web Link <ul style="list-style-type: none"><li>• Menuentry Options</li></ul>

**Tabelle A.36:** Submit a Web Link**News Feed**

News Feed {to do} die wiederkehrende Elemente sind:

<b>cJSL</b>	<b>Joomla</b>
<ul style="list-style-type: none"><li>• Display Select<ul style="list-style-type: none"><li>- OptionSettingtype</li></ul></li><li>• Table Headings<ul style="list-style-type: none"><li>- OptionSettingtype</li></ul></li><li>• Articles<ul style="list-style-type: none"><li>- OptionSettingtype</li></ul></li><li>• Feed Links<ul style="list-style-type: none"><li>- OptionSettingtype</li></ul></li><li>• Pagination<ul style="list-style-type: none"><li>- OptionSettingtype</li></ul></li><li>• Pagination Results<ul style="list-style-type: none"><li>- OptionSettingtype</li></ul></li></ul>	<ul style="list-style-type: none"><li>• show_pagination_limit<ul style="list-style-type: none"><li>- OptionSettingvalue</li></ul></li><li>• show_headings<ul style="list-style-type: none"><li>- OptionSettingvalue</li></ul></li><li>• show_articles<ul style="list-style-type: none"><li>- OptionSettingvalue</li></ul></li><li>• show_link<ul style="list-style-type: none"><li>- OptionSettingvalue</li></ul></li><li>• show_pagination<ul style="list-style-type: none"><li>- OptionSettingvalue</li></ul></li><li>• show_pagination_results<ul style="list-style-type: none"><li>- OptionSettingvalue</li></ul></li></ul>

**Tabelle A.37:** News Feeds List Layouts

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cJSL	Joomla
<ul style="list-style-type: none"> <li>• Feed Image <ul style="list-style-type: none"> <li>- OptionSettingtype</li> </ul> </li> <li>• Feed Description <ul style="list-style-type: none"> <li>- OptionSettingtype</li> </ul> </li> <li>• Feed Content <ul style="list-style-type: none"> <li>- OptionSettingtype</li> </ul> </li> <li>• Characters count</li> </ul>	<ul style="list-style-type: none"> <li>• show_feed_image <ul style="list-style-type: none"> <li>- OptionSettingvalue</li> </ul> </li> <li>• show_feed_description <ul style="list-style-type: none"> <li>- OptionSettingvalue</li> </ul> </li> <li>• show_item_description <ul style="list-style-type: none"> <li>- OptionSettingvalue</li> </ul> </li> <li>• feed_character_count</li> </ul>

**Tabelle A.38:** Feed Display Options

cJSL	Joomla
1-List All News Feeds Categories <ul style="list-style-type: none"> <li>• Basic Setting <ul style="list-style-type: none"> <li>- Select a Category Level</li> </ul> </li> <li>• Categories Options <ul style="list-style-type: none"> <li>+ Top Level Category Description</li> <li>+ Show /Hide the number of News Feeds <ul style="list-style-type: none"> <li>- OptionSettingtype</li> </ul> </li> </ul> </li> <li>• Category Options <ul style="list-style-type: none"> <li>+ Feeds in Category <ul style="list-style-type: none"> <li>- OptionSettingtype</li> </ul> </li> </ul> </li> <li>• News Feeds List Layouts</li> <li>• Feed Display Options</li> <li>• Menuentry Options</li> </ul>	1- List All News Feeds Categories <ul style="list-style-type: none"> <li>• Basic Setting <ul style="list-style-type: none"> <li>- categorie_id</li> </ul> </li> <li>• Categories Options <ul style="list-style-type: none"> <li>+ categories_description</li> <li>+ show_cat_items_cat <ul style="list-style-type: none"> <li>- OptionSettingtype</li> </ul> </li> </ul> </li> <li>• Category Options <ul style="list-style-type: none"> <li>+ show_cat_items <ul style="list-style-type: none"> <li>- OptionSettingtype</li> </ul> </li> </ul> </li> <li>• Weblinks List Layouts</li> <li>• News Feeds List Layouts</li> <li>• Feed Display Options</li> <li>• Menuentry Options</li> </ul>

**Tabelle A.39:** List All News Feeds Categories

<b>cJSL</b>	<b>Joomla</b>
1-List news Feeds in a Category <ul style="list-style-type: none"><li>• Basic Setting<ul style="list-style-type: none"><li>- Select a Category</li></ul></li><li>• Category Options</li></ul> + Feeds in Category <ul style="list-style-type: none"><li>- OptionSettingtype</li></ul> <ul style="list-style-type: none"><li>• News Feeds List Layouts</li><li>• Feed Display Options</li></ul> + Feed display order <ul style="list-style-type: none"><li>- Use Global</li><li>- Most recent first</li><li>- Oldest first</li></ul> <ul style="list-style-type: none"><li>• Menuentry Options</li></ul>	1- List news Feeds in a Category <ul style="list-style-type: none"><li>• Basic Setting<ul style="list-style-type: none"><li>- categorie_id</li></ul></li><li>• Category Options</li></ul> + show_cat_items <ul style="list-style-type: none"><li>- OptionSettingvalue</li></ul> <ul style="list-style-type: none"><li>• News Feeds List Layouts</li><li>• Feed Display Options</li></ul> + feed_display_order <ul style="list-style-type: none"><li>- leer</li><li>- desc</li><li>- asc</li></ul> <ul style="list-style-type: none"><li>• Menuentry Options</li></ul>

**Tabelle A.40:** List news Feeds in a Category

<b>cJSL</b>	<b>Joomla</b>
1-List news Feeds in a Category <ul style="list-style-type: none"><li>• Basic Setting<ul style="list-style-type: none"><li>- Select a Feed</li></ul></li><li>• Feed Display Options</li></ul> + Feed display order <ul style="list-style-type: none"><li>- Use Global</li><li>- Most recent first</li><li>- Oldest first</li></ul> <ul style="list-style-type: none"><li>• Menuentry Options</li></ul>	1- List news Feeds in a Category <ul style="list-style-type: none"><li>• Basic Setting<ul style="list-style-type: none"><li>- feed_id</li></ul></li><li>• Feed Display Options</li></ul> + feed_display_order <ul style="list-style-type: none"><li>- leer</li><li>- desc</li><li>- asc</li></ul> <ul style="list-style-type: none"><li>• Menuentry Options</li></ul>

**Tabelle A.41:** Single News Feed

## Smart Search

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diese Page ist {to do}

cJSL	Joomla
<ul style="list-style-type: none"><li>• Search Query</li><li>• Search Filter<ul style="list-style-type: none"><li>- Search Filter</li></ul></li><li>• Date Filters<ul style="list-style-type: none"><li>- OptionSettingtype</li></ul></li><li>• Advanced Search<ul style="list-style-type: none"><li>- OptionSettingtype</li></ul></li><li>• Expand Advanced Search<ul style="list-style-type: none"><li>- OptionSettingtype</li></ul></li><li>• Result Description<ul style="list-style-type: none"><li>- OptionSettingtype</li></ul></li><li>• Description Length</li><li>• Result URL<ul style="list-style-type: none"><li>- OptionSettingtype</li></ul></li><li>• Display Select<ul style="list-style-type: none"><li>- OptionSettingvalue</li></ul></li></ul>	<ul style="list-style-type: none"><li>• q</li><li>• f<ul style="list-style-type: none"><li>- filter_id</li></ul></li><li>• show_date_filters<ul style="list-style-type: none"><li>- OptionSettingvalue</li></ul></li><li>• show_advanced<ul style="list-style-type: none"><li>- OptionSettingvalue</li></ul></li><li>• expand_advanced<ul style="list-style-type: none"><li>- OptionSettingvalue</li></ul></li><li>• show_description<ul style="list-style-type: none"><li>- OptionSettingvalue</li></ul></li><li>• description_length</li><li>• show_url<ul style="list-style-type: none"><li>- OptionSettingvalue</li></ul></li><li>• show_pagination_limit<ul style="list-style-type: none"><li>- OptionSettingvalue</li></ul></li></ul>

**Tabelle A.42:** Search

cJSL	Joomla
<ul style="list-style-type: none"><li>• Pagination<ul style="list-style-type: none"><li>- OptionSettingvalue</li></ul></li><li>• Pagination Results<ul style="list-style-type: none"><li>- OptionSettingvalue</li></ul></li><li>• Allow Empty Search<ul style="list-style-type: none"><li>- No</li><li>- yes</li></ul></li><li>• Sort Field<ul style="list-style-type: none"><li>- Use Global</li><li>- relevance</li><li>- date</li><li>- price</li></ul></li><li>• Sort Direction<ul style="list-style-type: none"><li>- Use Global</li><li>- descending</li><li>- ascending</li></ul></li><li>• show_feed<ul style="list-style-type: none"><li>- No</li><li>- Yes</li></ul></li><li>• Show Feed<ul style="list-style-type: none"><li>- No</li><li>- Yes</li></ul></li><li>• Show Feed Text</li><li>• Menuentry Options</li></ul>	<ul style="list-style-type: none"><li>• show_pagination<ul style="list-style-type: none"><li>- OptionSettingvalue</li></ul></li><li>• show_pagination_results<ul style="list-style-type: none"><li>- OptionSettingvalue</li></ul></li><li>• allow_empty_query<ul style="list-style-type: none"><li>- 0</li><li>- 1</li></ul></li><li>• sort_order<ul style="list-style-type: none"><li>- leer</li><li>- relevance</li><li>- date</li><li>- price</li></ul></li><li>• sort_direction<ul style="list-style-type: none"><li>- leer</li><li>- desc</li><li>- asc</li></ul></li><li>• show_feed<ul style="list-style-type: none"><li>- 0</li><li>- 1</li></ul></li><li>• show_feed_text<ul style="list-style-type: none"><li>- 0</li><li>- 1</li></ul></li><li>• show_feed_link</li><li>• Menuentry Options</li></ul>

**Tabelle A.43:** Search**Search**



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cJSL	Joomla
<ul style="list-style-type: none"> <li>• Search Term</li> <li>• Use Search Areas <ul style="list-style-type: none"> <li>- OptionSettingtype</li> </ul> </li> <li>• Created Date <ul style="list-style-type: none"> <li>- OptionSettingtype</li> </ul> </li> <li>• Search for <ul style="list-style-type: none"> <li>- All Words</li> <li>- Any Words</li> <li>- Exact Phrase</li> </ul> </li> <li>• Results ordering <ul style="list-style-type: none"> <li>- Newest First</li> <li>- Oldest First</li> <li>- Popularity</li> <li>- Alphabetical</li> <li>- Category</li> </ul> </li> <li>• Menuentry Options</li> </ul>	<ul style="list-style-type: none"> <li>• searchword</li> <li>• search_areas <ul style="list-style-type: none"> <li>- OptionSettingvalue</li> </ul> </li> <li>• show_date <ul style="list-style-type: none"> <li>- OptionSettingvalue</li> </ul> </li> <li>• searchphrase <ul style="list-style-type: none"> <li>- 0</li> <li>- 1</li> <li>- 2</li> </ul> </li> <li>• ordering <ul style="list-style-type: none"> <li>- newest</li> <li>- oldest</li> <li>- popular</li> <li>- alpha</li> <li>- category</li> </ul> </li> <li>• Menuentry Options</li> </ul>

**Tabelle A.44:** Search

## Iframe Wrapper

cJSL	Joomla
<ul style="list-style-type: none"><li>• URL</li><li>• Scroll Bars<ul style="list-style-type: none"><li>- no</li><li>- yes</li><li>- auto</li></ul></li><li>• Width</li><li>• Height</li><li>• Auto height<ul style="list-style-type: none"><li>- YesNoSettingtype</li></ul></li><li>• Auto add<ul style="list-style-type: none"><li>- YesNoSettingtype</li></ul></li><li>• Frame border<ul style="list-style-type: none"><li>- YesNoSettingtype</li></ul></li><li>• Menuentry Options</li></ul>	<ul style="list-style-type: none"><li>• url</li><li>• scrolling<ul style="list-style-type: none"><li>- no</li><li>- yes</li><li>- auto</li></ul></li><li>• width</li><li>• height</li><li>• height_auto<ul style="list-style-type: none"><li>- YesNoSettingvalue</li></ul></li><li>• add_scheme<ul style="list-style-type: none"><li>- YesNoSettingvalue</li></ul></li><li>• frameborder<ul style="list-style-type: none"><li>- YesNoSettingvalue</li></ul></li><li>• Menuentry Options</li></ul>

**Tabelle A.45:** Iframe Wrapper**External URL**

cJSL	Joomla
1-External URL <ul style="list-style-type: none"><li>• Link Type Options</li></ul>	1-External URL <ul style="list-style-type: none"><li>• Link Type Options</li></ul>

**Tabelle A.46:** External URL**Menu Item Alias**

cJSL	Joomla
<ul style="list-style-type: none"><li>• Select a Menu Item</li><li>• Link Type Options</li></ul>	<ul style="list-style-type: none"><li>• itemid</li><li>• Link Type Options</li></ul>

**Tabelle A.47:** Menu Item Alias

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### System Link-Text Separator

cJSL	Joomla
<ul style="list-style-type: none"><li>• Link Type Options</li></ul>	<ul style="list-style-type: none"><li>• Link Type Options</li></ul>

**Tabelle A.48:** System Link-Text Separator

**Content** Zuerst ein Paar wiederkehrende Elemente:

cJSL	Joomla
<ul style="list-style-type: none"><li>• Use Global:String</li><li>• Open in parent window:Int</li><li>• Open in new window:Int</li><li>• Open in popup:Int</li><li>• Modal:Int</li></ul>	<ul style="list-style-type: none"><li>• leer</li><li>• "0"</li><li>• "1"</li><li>• "2"</li><li>• "3"</li></ul>

**Tabelle A.49:** contentopenWindowtype

cJSL	Joomla
<ul style="list-style-type: none"><li>• Meta keywords :String</li><li>• Meta description :String</li><li>• Robots :robotsOptionType</li><li>• Author :String</li><li>• Rights :String</li></ul>	<ul style="list-style-type: none"><li>• metakey</li><li>• metadesc</li><li>• robots :robotsOptionValue</li><li>• author</li><li>• rights</li></ul>

**Tabelle A.50:** contentMetaOption

cJSL	Joomla
<ul style="list-style-type: none"><li>• right :String</li><li>• left :String</li><li>• none :String</li></ul>	<ul style="list-style-type: none"><li>• right</li><li>• left</li><li>• none</li></ul>

**Tabelle A.51:** PositionOptionType

cJSL	Joomla
<ul style="list-style-type: none"><li>• Link A :String</li><li>• Link A Text :String</li><li>• URL Target Window for Link A :openWindowOptionType</li><li>• Link B :String</li><li>• Link B Text :String</li><li>• URL Target Window for Link B :openWindowOptionType</li><li>• Link C :String</li><li>• Link C Text :String</li><li>• URL Target Window for Link C :String</li></ul>	<ul style="list-style-type: none"><li>• urla</li><li>• urlatext</li><li>• targeta :openWindowOption-Type</li><li>• urlb</li><li>• urlbtext</li><li>• targetb :openWindowOption-Type</li><li>• urlc</li><li>• urlcext</li><li>• targetc :openWindowOption-Type</li></ul>

**Tabelle A.52:** UrlSettingOption

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cJSL	Joomla
<ul style="list-style-type: none"> <li>• ArticleSettingOption</li> <li>• Positioning of the Links :String</li> <li>• Read More Text :String</li> <li>• Alternative Layout :String</li> <li>• Show publishing options :YesNoType</li> <li>• Show article options :YesNoType</li> <li>• Show urls images backend :YesNoType</li> <li>• Show urls images frontend :YesNoType</li> <li>• intro Image :String</li> <li>• Image Float :PositionOptiontype</li> <li>• Alt text :String</li> <li>• Caption :String</li> </ul>	<ul style="list-style-type: none"> <li>• ArticleSettingOption</li> <li>• urls__position</li> <li>• alternative_readmore</li> <li>• article_layout</li> <li>• show_publishing_options :YesNoType</li> <li>• show_article_options :YesNoType</li> <li>• show_urls_images_backend :YesNoType</li> <li>• show_urls_images_frontend :YesNoType</li> <li>• image_intro</li> <li>• float_intro :PositionOptiontype</li> <li>• image_intro_alt</li> <li>• image_intro_caption</li> </ul>

**Tabelle A.53:** ContentAttributOption

cJSL	Joomla
<ul style="list-style-type: none"> <li>• Full article image :String</li> <li>• Full article image Float :PositionOptiontype</li> <li>• Full article Alt text :String</li> <li>• Full article Caption :String</li> </ul>	<ul style="list-style-type: none"> <li>• image_fulltext</li> <li>• float_fulltext :PositionOptiontype</li> <li>• image_fulltext_alt</li> <li>• image_fulltext_caption</li> </ul>

**Tabelle A.54:** ContentImageOption

cJSL	Joomla
<ul style="list-style-type: none"><li>• Content Id :Content</li><li>• Rating Sum :int</li><li>• Rating Count :int</li><li>• Lastip</li></ul>	<ul style="list-style-type: none"><li>• content_id</li><li>• rating_sum</li><li>• rating_count</li><li>• lastip</li></ul>

**Tabelle A.55:** RatingOption**Content**

cJSL	Joomla
<ul style="list-style-type: none"><li>• Id :int</li><li>• ACL :AccessLevel</li><li>• Title :String</li><li>• Alias :String</li><li>• ...</li><li>• Article Text :String</li><li>• Article Text :String</li><li>• Status :contentStatusType</li><li>• sectionid :int</li><li>• mask :String</li><li>• Categorie :Category</li><li>• Created Date :Date</li><li>• Created By :User</li><li>• Created by alias :String</li><li>• Modified Date :Date</li><li>• Modified by :User</li></ul>	<ul style="list-style-type: none"><li>• id</li><li>• asset_id</li><li>• title</li><li>• alias</li><li>• title_alias</li><li>• introtext</li><li>• fulltext</li><li>• state</li><li>• sectionid</li><li>• mask</li><li>• catid</li><li>• created</li><li>• created_by</li><li>• created_by_alias</li><li>• modified</li><li>• modified_by</li></ul>

**Tabelle A.56:** Content

cJSL	Joomla
<ul style="list-style-type: none"> <li>• checked_out :int</li> <li>• checked_out_time :Date</li> <li>• Start Publishing :Date</li> <li>• Finish Publishing :Date</li> <li>• ContentImagesOption</li> <li>• UrlsOption</li> <li>• ContentAttribsOption</li> <li>• version :String</li> <li>• parentid :int</li> <li>• Ordering :int</li> <li>• Access :ViewLevel</li> <li>• hits :int</li> <li>• ContentMetadataOption</li> <li>• Featured :Content</li> <li>• Language :Language</li> <li>• Extern Ressource Description :String</li> <li>• RatingsOption</li> </ul>	<ul style="list-style-type: none"> <li>• checked_out</li> <li>• checked_out_time</li> <li>• publish_up</li> <li>• publish_down</li> <li>• ContentImagesOption</li> <li>• UrlsOption</li> <li>• ContentAttribsOption</li> <li>• version</li> <li>• parentid</li> <li>• ordering</li> <li>• access</li> <li>• hits</li> <li>• ContentMetadataOption</li> <li>• featured</li> <li>• language</li> <li>• xreference</li> <li>• BewertungsOption</li> </ul>

**Tabelle A.57:** Content

**Categorie** Bei den Kategorien, wie bei Menu sie unterscheiden sich nur durch die Zusatzparameter, die Erweiterungen Abhängig sind. Wir unterscheiden für die Jommlacore die folgende Paramtertype:

- ArticleCategorie
- BannerCategorie
- ContactCategorie
- NewsFeedsCategorie

- Weblinkcategorie

Hier sind zuerst die Wiederkehrende Elemente:



cJSL	Joomla
<ul style="list-style-type: none"> <li>• ...</li> <li>• ...</li> <li>• Parent</li> <li>• Ordering</li> <li>• ...</li> <li>• ...</li> <li>• ...</li> <li>• ExtensionOptions</li> <li>• Title</li> <li>• Alias</li> <li>• Note</li> <li>• Description</li> <li>• Published</li> <li>• ...</li> <li>• ...</li> <li>• Access</li> <li>• CategorieParamsOption</li> <li>• MetadataOptionType</li> <li>• Created by</li> <li>• Created Time</li> <li>• Modified By</li> <li>• Modified Date</li> <li>• Hits</li> <li>• Language</li> </ul>	<ul style="list-style-type: none"> <li>• id</li> <li>• asset_id</li> <li>• parent_id</li> <li>• lft</li> <li>• rgt</li> <li>• level</li> <li>• path</li> <li>• extensionOptions</li> <li>• title</li> <li>• alias</li> <li>• note</li> <li>• description</li> <li>• published</li> <li>• checked_out</li> <li>• checked_out_time</li> <li>• access</li> <li>• CategorieParamsOption</li> <li>• MetadataOptionValue</li> <li>• created_user_id</li> <li>• created_time</li> <li>• modified_user_id</li> <li>• modified_time</li> <li>• hits</li> <li>• language</li> </ul>

**Tabelle A.58:** Categorie

Wir unterscheiden verschiedene ParameterType:

cJSL	Joomla
<ul style="list-style-type: none"><li>• Alternative Lay-out<ul style="list-style-type: none"><li>- Use Global</li><li>- Blog</li><li>- List</li></ul></li><li>• Image</li></ul>	<ul style="list-style-type: none"><li>• category__layout<ul style="list-style-type: none"><li>- ...</li><li>- __:blog</li><li>- __:default</li></ul></li><li>• image</li></ul>

**Tabelle A.59:** ArticleCategorie

cJSL	Joomla
<ul style="list-style-type: none"><li>• Alternative Layout<ul style="list-style-type: none"><li>- Use Global</li></ul></li><li>• Image</li></ul>	<ul style="list-style-type: none"><li>• category__layout<ul style="list-style-type: none"><li>- ...</li></ul></li><li>• image</li></ul>

**Tabelle A.60:** BannersCategorie

cJSL	Joomla
<ul style="list-style-type: none"><li>• Alternative Lay-out<ul style="list-style-type: none"><li>- Use Global</li><li>- Default</li></ul></li><li>• Image</li></ul>	<ul style="list-style-type: none"><li>• category__layout<ul style="list-style-type: none"><li>- ...</li><li>- __:default</li></ul></li><li>• image</li></ul>

**Tabelle A.61:**  
Weblink/NewsFeeds/Contact/UserCategories

## NewsFeeds Beschreibung

Hier Kommen wir zu den NewsFeeds:

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cJSL	Joomla
<ul style="list-style-type: none"><li>• Category</li><li>• id</li><li>• Title</li><li>• Alias</li><li>• Link</li><li>• ...</li><li>• statusType</li><li>• Number of Articles</li><li>• Cache Time</li><li>• ...</li><li>• ...</li><li>• Ordering</li><li>• Language Direction</li><li>• Access</li><li>• language</li></ul>	<ul style="list-style-type: none"><li>• catid</li><li>• id</li><li>• name</li><li>• alias</li><li>• link</li><li>• filename</li><li>• published</li><li>• numarticles</li><li>• cache_time</li><li>• checked_out</li><li>• checked_out_time</li><li>• ordering</li><li>• rtl</li><li>• access</li><li>• language</li></ul>

**Tabelle A.62:** NeewFeeds

cJSL	Joomla
<ul style="list-style-type: none"><li>• Feed Display Options</li></ul> <ul style="list-style-type: none"><li>+ Feed display order<ul style="list-style-type: none"><li>- Use Global</li><li>- Most recent first</li><li>- Oldest first</li></ul></li><li>+ newsfeed_layout<ul style="list-style-type: none"><li>- Use Global</li><li>- Default</li></ul></li></ul> <ul style="list-style-type: none"><li>• Created Date</li><li>• Created by</li><li>• Author's Alias</li><li>• Modified Date</li><li>• Modified By</li><li>• MetadataOption</li><li>• ...</li><li>• Start Publishing</li><li>• Finish Publishing</li></ul>	<ul style="list-style-type: none"><li>• Feed Display Options</li></ul> <ul style="list-style-type: none"><li>+ feed_display_order<ul style="list-style-type: none"><li>- leer</li><li>- desc</li><li>- asc</li></ul></li><li>+ newsfeed_layout<ul style="list-style-type: none"><li>- ...</li><li>- __:default</li></ul></li></ul> <ul style="list-style-type: none"><li>• created</li><li>• created_by</li><li>• created_by_alias</li><li>• modified</li><li>• modified_by</li><li>• MetadataOption</li><li>• xreference</li><li>• publish_up</li><li>• publish_down</li></ul>

**Tabelle A.63:** NeewFeeds

**Contact Details** Contact stellt eine Erweiterung für User Information dar.

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cJSL	Joomla
<ul style="list-style-type: none"> <li>• Position</li> <li>• Address</li> <li>• City or Suburb</li> <li>• State or Province</li> <li>• Country</li> <li>• Postal / ZIP Code</li> <li>• Telephone</li> <li>• Fax</li> <li>• Image</li> <li>• ...</li> <li>• Email</li> <li>• ...</li> <li>• Mobile</li> <li>• Webpage</li> <li>• First Sort Field</li> <li>• Second Sort Field</li> <li>• Third Sort Field</li> </ul>	<ul style="list-style-type: none"> <li>• con_position</li> <li>• address</li> <li>• suburb</li> <li>• state</li> <li>• country</li> <li>• postcode</li> <li>• telephone</li> <li>• fax</li> <li>• image</li> <li>• imagepos?</li> <li>• email_to</li> <li>• default_con?</li> <li>• mobile</li> <li>• webpage</li> <li>• sortname1</li> <li>• sortname2</li> <li>• sortname3</li> </ul>

**Tabelle A.64:** Contacts Details Options

Die Contact beschreibung:

cJSL	Joomla
<ul style="list-style-type: none"><li>• ...</li><li>• Name</li><li>• Alias</li><li>• Other Information</li><li>• Status</li><li>• ...</li><li>• ...</li><li>• Ordering</li><li>• language</li><li>• Created date</li><li>• Created By</li><li>• Created By Alias</li><li>• Modified</li><li>• Modified by</li><li>• metadataOption</li><li>• Featured</li><li>• ...</li><li>• Start Publishing</li><li>• Finish Publishing</li><li>• Linked User</li><li>• Category</li><li>• Access</li><li>• Form for Email Options</li><li>• List Layout Options</li><li>• Contacts Details Options</li></ul>	<ul style="list-style-type: none"><li>• id</li><li>• name</li><li>• alias</li><li>• misc</li><li>• published</li><li>• checked_out</li><li>• checked_out_time</li><li>• ordering</li><li>• language</li><li>• created</li><li>• created_by</li><li>• created_by_alias</li><li>• modified</li><li>• modified_by</li><li>• metadataOption</li><li>• featured</li><li>• xreference?</li><li>• publish_up</li><li>• publish_down</li><li>• user_id</li><li>• catid</li><li>• access</li><li>• Form for Email Options</li><li>• List Layout Options</li><li>• Contacts Details Options</li></ul>

**Tabelle A.65:** Contact

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## WebLinks

WebLinks Beschreibung:

cJSL	Joomla
<ul style="list-style-type: none"><li>• Target<ul style="list-style-type: none"><li>- openWindowOption</li></ul></li><li>• Width<ul style="list-style-type: none"><li>- openWindowOption</li></ul></li><li>• Height<ul style="list-style-type: none"><li>- openWindowOption</li></ul></li><li>• Count Clicks<ul style="list-style-type: none"><li>- openWindowOption</li></ul></li></ul>	<ul style="list-style-type: none"><li>• target<ul style="list-style-type: none"><li>- openWindowOption</li></ul></li><li>• width<ul style="list-style-type: none"><li>- openWindowOption</li></ul></li><li>• height<ul style="list-style-type: none"><li>- openWindowOption</li></ul></li><li>• count_clicks<ul style="list-style-type: none"><li>- openWindowOption</li></ul></li></ul>

**Tabelle A.66:** WebLinkParamsOptions

cJSL	Joomla
<ul style="list-style-type: none"><li>• ...</li><li>• Category</li><li>• sid</li><li>• Title</li><li>• Alias</li><li>• Url</li><li>• Description</li><li>• date</li><li>• hits</li><li>• Status</li><li>• checked_out</li><li>• checked_out_time</li><li>• Ordering</li><li>• archived</li><li>• approved</li><li>• Access</li><li>• WebLinkParamsOptions</li><li>• Language</li><li>• Created Date</li><li>• Created By</li><li>• Created by alias</li><li>• modified</li><li>• modified By</li><li>• MetadataOption</li><li>• Featured</li><li>• xreference</li><li>• Start Publishing</li><li>• Finish Publishing</li></ul>	<ul style="list-style-type: none"><li>• id</li><li>• catid</li><li>• sid</li><li>• title</li><li>• alias</li><li>• url</li><li>• description</li><li>• date</li><li>• hits</li><li>• state</li><li>• checked_out</li><li>• checked_out_time</li><li>• ordering</li><li>• archived</li><li>• approved</li><li>• access</li><li>• WebLinkParamsOptions</li><li>• language</li><li>• created</li><li>• created_by</li><li>• created_by_alias</li><li>• modified</li><li>• modified_by</li><li>• metadataOption</li><li>• featured</li><li>• xreference</li><li>• publish_up</li><li>• publish_down</li></ul>



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**Banner** Zuerst ein Paar Elemente:

cJSL	Joomla
<ul style="list-style-type: none"><li>• Image</li><li>• Width</li><li>• Height</li><li>• alt</li></ul>	<ul style="list-style-type: none"><li>• imageurl</li><li>• width</li><li>• height</li><li>• alt</li></ul>

**Tabelle A.68:** BannerParamsOption

cJSL	Joomla
<ul style="list-style-type: none"><li>• Use Client Default</li><li>• Unlimited</li><li>• Yearly</li><li>• Monthly</li><li>• Weekly</li><li>• Daily</li></ul>	<ul style="list-style-type: none"><li>• -1</li><li>• 1</li><li>• 2</li><li>• 3</li><li>• 4</li><li>• 5</li></ul>

**Tabelle A.69:** purchaseTypeOption

cJSL	Joomla
<ul style="list-style-type: none"><li>• Meta keyword</li><li>• Use Own Prefix -&gt; YesNoOptiontype</li><li>• Meta keyword Prefix</li></ul>	<ul style="list-style-type: none"><li>• metakey</li><li>• own_prefix</li><li>• metakey_prefix</li></ul>

**Tabelle A.70:** BannerMetadaOption

cJSL	Joomla
<ul style="list-style-type: none"><li>• ...</li><li>• Client</li><li>• Type<ul style="list-style-type: none"><li>- Image</li><li>- Custom</li></ul></li><li>• Name</li><li>• Alias</li><li>• Max. Impressions</li><li>• Total Impressions</li><li>• Clicks</li><li>• Click Url</li><li>• State</li><li>• Kategorie</li><li>• Description</li><li>• custombannercode</li><li>• Sticky-&gt; YesNoOptiontype</li><li>• Ordering</li><li>• BannerParamsOption</li></ul>	<ul style="list-style-type: none"><li>• id</li><li>• cid</li><li>• type<ul style="list-style-type: none"><li>- 0</li><li>- 1</li></ul></li><li>• name</li><li>• alias</li><li>• imptotal</li><li>• impmade</li><li>• clicks</li><li>• clickurl</li><li>• state</li><li>• catid</li><li>• description</li><li>• custombannercode</li><li>• sticky</li><li>• ordering</li><li>• BannerParamsOption</li></ul>

**Tabelle A.71:** BannerItem

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cJSL	Joomla
<ul style="list-style-type: none"> <li>• BannerMetadaOption</li> <li>• Purchase Type -&gt; purchaseTypeOption</li> <li>• Track Clicks -&gt; YesNoOptiontype</li> <li>• track_impressions</li> <li>• checked_out</li> <li>• checked_out_time</li> <li>• Start Publishing</li> <li>• Finish Publishing</li> <li>• Reset</li> <li>• Created Date</li> <li>• Language</li> </ul>	<ul style="list-style-type: none"> <li>• BannerMetadaOption</li> <li>• purchase_type</li> <li>• track_clicks</li> <li>• track_impressions</li> <li>• checked_out</li> <li>• checked_out_time</li> <li>• publish_up</li> <li>• publish_down</li> <li>• reset</li> <li>• created</li> <li>• language</li> </ul>

**Tabelle A.72:** Banneritem

cJSL	Joomla
<ul style="list-style-type: none"><li>• ...</li><li>• Client Name</li><li>• Contact Name</li><li>• Contact Email</li><li>• Additional Information</li><li>• Status</li><li>• checked_out</li><li>• checked_out_time</li><li>• Purchase Type</li><li>• Track Clicks</li><li>• Track Impressions</li><li>• BannerMetadaOption</li></ul>	<ul style="list-style-type: none"><li>• id</li><li>• name</li><li>• contact</li><li>• email</li><li>• extrainfo</li><li>• state</li><li>• checked_out</li><li>• checked_out_time</li><li>• purchase_type</li><li>• track_clicks</li><li>• track_impressions</li><li>• BannerMetadaOption</li></ul>

**Tabelle A.73:** Banner Client

cJSL	Joomla
<ul style="list-style-type: none"><li>• Track date</li><li>• Track type</li><li>• Banner id</li></ul>	<ul style="list-style-type: none"><li>• track_date</li><li>• track_type</li><li>• banner_id</li></ul>

**Tabelle A.74:** Banner Tracks

## B Anhang 2