

# Template-Based DOCX, DOC & PDF Generation with Zend Framework.

# Who am I?

- **Jonathan Maron.**  
Senior Web Developer.
  - Blog: <http://www.phplivedocx.org>
  - XING: [https://www.xing.com/profile/Jonathan\\_Maron](https://www.xing.com/profile/Jonathan_Maron)
  - Twitter: [@jonathanmaron](#)
- Lead in house web development department.
- Specialized in multilingual and multicultural web applications.
- Born in the UK, based in Bremen.

# Where do I work?

- Software development company.
- Word processing components.
- For server and desktop applications.
- > 20 years experience in word processing.
- Offices and support in Bremen, USA & Taiwan.
- Customers worldwide.

# Creating PDFs with PHP

- HTML-to-PDF approach:

- domPDF.
- HtmlToPdf.
- HTML\_ToPDF.
- wkhtmltopdf.
- etc.

- Programmatic approach:

- Zend\_Pdf.
- PDFlib.
- FPDF.
- Cpdf.
- etc.

# The HTML-to-PDF approach

- Limited by formatting of HTML.
  - e.g. No decimal tab in HTML.
- Graphic designer cannot create templates.
- PDF is a page-orientated format; HTML is a flow document format.
  - 1-to-1 mapping of HTML to PDF is impossible.
- Time-consuming to get final layout correct.

# The programmatic approach

- Large amounts of PHP code required.
- No concept of a merge field.
- (Almost) impossible to insert text at a previously unknown position - e.g. in long paragraphs.
- Necessity to specify x, y co-ordinates.
- Template changes break generated document.
- A programmer must create templates.  
(Graphical designers are better at this kind of work!)
- Time-consuming to get final layout correct.

# *Ralf Eggert* quote (original)

„Es kann schon bei einer Vorlage, die nur aus einer DIN-A4-Seite besteht, aber 20 bis 30 Felder hat, die es zu befüllen gilt, ein paar Stunden dauern, bis man alle Texte einigermaßen gut platziert hat. Der Begriff *Pixelshubser* bekommt da eine ganz neue Bedeutung.“

*PHP Magazin* (December 2008 - January 2009), [Ralf Eggert](#).

# *Ralf Eggert* quote (translation)

“It can take several hours until you get the positioning of text just right in an A4 document with one page, but with 20 to 30 text fields. The term *pixel-pimping* takes on a completely new meaning.”

*PHP Magazin* (December 2008 - January 2009), [Ralf Eggert](#).

There must be an easier way.

The template approach.

**Cross-platform.**

SOAP-based LiveDocx.

# LiveDocx and Zend Framework

- LiveDocx is a SOAP-based document generation service.
- Zend\_Service\_LiveDocx (New BSD license):
  - A PHP 5 implementation of LiveDocx. (others are of course possible).
  - Easy-to-use PHP API to rich SOAP service.
  - Native component of the Zend Framework.
  - PHP 5 *SoapClient* and *NuSOAP* also supported.
  - All other programming languages that have a SOAP implementation are supported.

# Public / Hosted / Licensed / Cloud

- LiveDocx SOAP service is free<sup>1</sup> **for all** to use.
- Premium hosted service is available<sup>2</sup>.
- License and install in local network.
- Cloud-based solutions in the pipeline<sup>3</sup>.

1. Free as in beer. Documentation and sign up at [www.livedocx.com](http://www.livedocx.com).

2. € 29.90 per month. 3. AWS EC2 and S3. Pay-as-you-go model.

# Mail merge: The basic idea

- A template that contains merge fields is created in a WYSIWYG word processor.
- Merge fields are populated.
- The resulting document is written to disk, printed or sent via e-mail on the server.

# Template vs. document

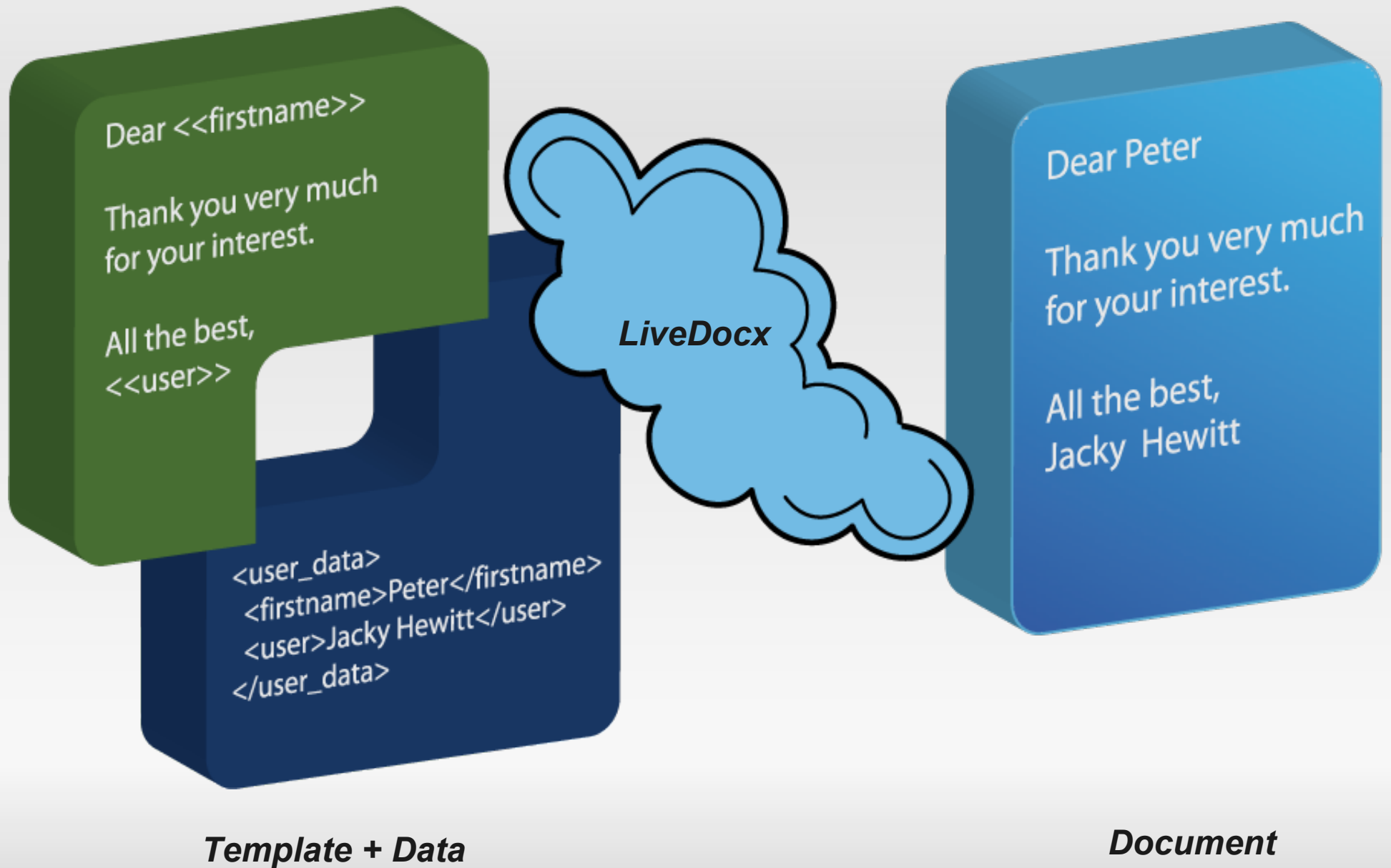
- **Template**

- The term **template** is used to refer to the input file, containing formatting and merge fields.

- **Document**

- The term **document** is used to refer to the generated output file that contains the template file, populated with data - i.e. the **finished document**.

# Document generation process (1)



# Document generation process (2)

Template + Data = Document.

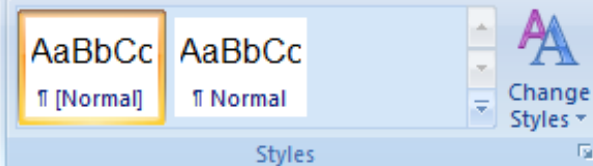
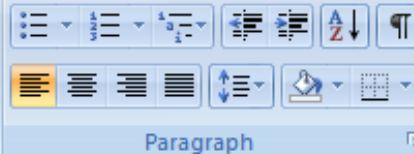
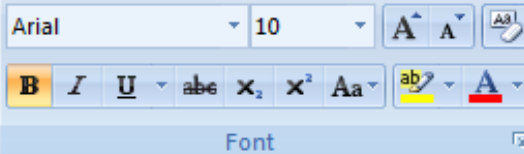
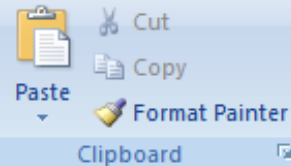
# Three steps to document creation

- Step 1: Create a template, containing document formatting and merge fields.
- Step 2: Assign data to template via API.
- Step 3: Generate and retrieve document.

Sample 1:  
**Merging simple structures.**

# Step 1: Creating a template (1)

- Start up Microsoft Word (or Open Office, TX Template Designer).
- Create a new document.
- Open up the *Field* dialog box.
- Insert a *MergeField*.



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This legal document is an agreement between { MERGEFIELD licensee }, the Licensee and { MERGEFIELD company }. By installing { MERGEFIELD software } on a computer, you are agreeing to be bound by the terms of this agreement. If you do not agree to the terms of this agreement, promptly return the unopened package, together with all the other material which comprises the product, respectively delete all { MERGEFIELD software } related files. For questions regarding this agreement please contact us.

### 1. Subject of agreement

The subject of this agreement is the software { MERGEFIELD software }, the operating manuals, online help files and all other accompanying material. It will be referred to henceforth as { MERGEFIELD software }.

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# Step 1: Creating a template (2)

The image shows a 'Field' dialog box with three main sections: 'Please choose a field', 'Field properties', and 'Field options'. In the 'Please choose a field' section, the 'Categories' dropdown is set to '(All)' and the 'Field names' list has 'MergeField' selected. The 'Field properties' section shows 'Field name:' as 'company' and 'Format:' as '(none)'. The 'Field options' section has 'Text to be inserted before:' set to 'Company:' and 'Preserve formatting during updates' checked. At the bottom, there are buttons for 'Field Codes', 'OK', and 'Cancel'.

**Field**

Please choose a field

Categories:  
(All)

Field names:  
Fill-in  
GoToButton  
GreetingLine  
Hyperlink  
If  
IncludePicture  
IncludeText  
Index  
Info  
Keywords  
LastSavedBy  
Link  
ListNum  
MacroButton  
MergeField  
MergeRec  
MergeSeq  
Next

Description:  
Insert a mail merge field

Field Codes

Field properties

Field name:  
company

Format:  
(none)  
Uppercase  
Lowercase  
First capital  
Title case

Field options

Text to be inserted before: Company:

Text to be inserted after:

Mapped field

Vertical formatting

Preserve formatting during updates

OK Cancel

# Steps 2 & 3: Assign data & create doc

```
$mailMerge = new Zend_Service_LiveDocx_MailMerge();

$mailMerge->setUsername(DEMOS_ZEND_SERVICE_LIVEDOCX_USERNAME)
            ->setPassword(DEMOS_ZEND_SERVICE_LIVEDOCX_PASSWORD);

$mailMerge->setLocalTemplate('template.docx');

$mailMerge->assign('software', 'Magic Graphical Compression Suite v1.9')
            ->assign('licensee', 'Henry Döner-Meyer')
            ->assign('company', 'Co-Operation')
            ->assign('date', Zend_Date::now()->toString(Zend_Date::DATE_LONG))
            ->assign('time', Zend_Date::now()->toString(Zend_Date::TIME_LONG))
            ->assign('city', 'Berlin')
            ->assign('country', 'Germany');

$mailMerge->createDocument();

$document = $mailMerge->retrieveDocument('pdf');

file_put_contents('document.pdf', $document);
```



## License Agreement - Magic Graphical Compression Suite v1.9

This legal document is an agreement between Henry Döner-Meyer, the Licensee and Co-Operation. By installing Magic Graphical Compression Suite v1.9 on a computer, you are agreeing to be bound by the terms of this agreement. If you do not agree to the terms of this agreement, promptly return the unopened package, together with all the other material which comprises the product, respectively delete all Magic Graphical Compression Suite v1.9 related files. For questions regarding this agreement please contact us.

### 1. Subject of agreement

The subject of this agreement is the software Magic Graphical Compression Suite v1.9, the operating manuals, online help files and all other accompanying material. It will be referred to henceforth as Magic Graphical Compression Suite v1.9.

### 2. Grant of license

Co-Operation grants the Licensee a non-exclusive, non-transferable, personal and worldwide license to use one copy of Magic Graphical Compression Suite v1.9 in the development of an end-user application, as described in section 3 (below). This license is for a single developer and not for an entire company. If additional programmers wish to use Magic Graphical Compression Suite v1.9, additional copies must be licensed.

### 3. End-user application

An *end-user application* is a specific application program that is licensed to a person or firm for business or personal use. The files which are not listed under section 5 must not be included with the end-user application. Furthermore, the end-user must not be in a position to be able to neither modify the program, nor to create Magic Graphical Compression Suite v1.9 based programs. Likewise, the end-user must not be given the Magic Graphical Compression Suite v1.9 serial number.

### 4. Royalties

Server-based programs which have been created with Magic Graphical Compression Suite v1.9 may only be installed on a single server, but may be accessed by an infinite number of clients. Additional licenses are required when installing Magic Graphical Compression Suite v1.9 on more than one server.

### 5. Redistributable files

Magic Graphical Compression Suite v1.9 contains an additional command line registration tool for installing Magic Graphical Compression Suite v1.9 on a server. This file is not redistributable.

### 6. Copyright

The Software is the property of Co-Operation. Co-Operation reserves all rights to the publishing, duplication, processing and utilization of Magic Graphical Compression Suite v1.9. A single copy may be made exclusively for security and archiving purposes. Without the express written permission of Co-Operation it is forbidden to:

- Alter, translate, decompile, or to disassemble Magic Graphical Compression Suite v1.9.
- Copy Magic Graphical Compression Suite v1.9's accompanying written documentation.
- Lend, hire out or lease Magic Graphical Compression Suite v1.9.

A permanent transference of Magic Graphical Compression Suite v1.9 is only permitted when the Licensee retains no copies and the recipient declares her/his acceptance of the conditions of this agreement.

### 7. Exclusion of warranties

Co-Operation offers and the Licensee accepts the product 'as is'. Co-Operation does not warrant Magic Graphical Compression Suite v1.9 will meet the Licensee's requirements, nor will operate uninterrupted, nor error free.

### 8. Liability

With the exception of damage caused by willful or gross negligence, neither Co-Operation nor its distributors are responsible for any damage whatsoever which is put down to the use of Magic Graphical Compression Suite v1.9. This is valid without exception, including loss of profits, lost working time, lost company information or other financial losses. In any event the liability of Co-Operation is limited to the purchase price.

### 9. Trial version limitation

If you are installing a trial version of Magic Graphical Compression Suite v1.9, it is forbidden to:

- Install the trial version on a production server.
- Distribute or sell an application with the trial version.
- Delete the additional trial text that is added to the created documents.

### 10. Duration of agreement

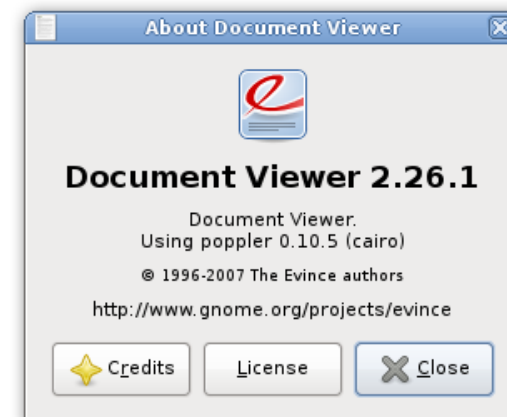
This agreement is valid for an indefinite period of time. The Licensee's rights as a user automatically expire if the conditions of this agreement are in any way violated. In this event all data storage material and all copies of Magic Graphical Compression Suite v1.9 are to be destroyed.

### Signatures

Henry Döner-Meyer

Co-Operation

Printed and signed on September 10, 2009 at 7:17:48 AM CEST in Hamburg, Germany.



Sample 2:

**Merging complex data structures.**

Clipboard Paste Font Paragraph Styles Editing

Arial 10 Bold Italic Underline Font Color Background Color Paragraph Styles Styles: Normal, No Spacing, Heading 1, Heading 2

Invoice for number { MERGEFIELD phone } { MERGEFIELD month }

Accounts receivable trade (total)	Amount in USD
Monthly free	{ MERGEFIELD monthly_fee }
Connection number      Connection duration	
Connection: { MERGEFIELD connection number } { MERGEFIELD connection duration }	{ MERGEFIELD fee }
Total net	{ MERGEFIELD total_net }
{ MERGEFIELD tax }% Tax	{ MERGEFIELD tax_value }
<b>Total Amount</b>	<b>{ MERGEFIELD total }</b>

# Repeating blocks (loops)

```
$mailMerge = new Zend_Service_LiveDocx_MailMerge();

$mailMerge->setUsername(DEMOS_ZEND_SERVICE_LIVEDOCX_USERNAME)
->setPassword(DEMOS_ZEND_SERVICE_LIVEDOCX_PASSWORD);

$mailMerge->setLocalTemplate('template.doc');

$billConnections = array(
    array(
        'connection_number' => '+11 (0)222 333 441',
        'connection_duration' => '00:01:01',
        'fee' => '1.15'
    ),
    array(
        'connection_number' => '+11 (0)222 333 442',
        'connection_duration' => '00:01:02',
        'fee' => '1.15'
    ),
    // [...]
);

$mailMerge->assign('connection', $billConnections);

$mailMerge->createDocument();

$document = $mailMerge->retrieveDocument('pdf');

file_put_contents('document.pdf', $document);
```

Telecom Company

## Invoice

Telecom Company LLC  
PO 77734, 28773 Charlotte

James Henry Brown



Phone number +22 (0)333 444 555  
Date October 6, 2010

Customer number #685709244  
Invoice number #944185273  
Account number #494292869

**Do you have  
questions about your  
invoice?**

Please call our toll-free  
customer service

Phone +22 (0)333 444 559  
Fax +22 (0)333 444 558

Invoice for number +22 (0)333 444 555    October 2010

Accounts receivable trade (total)	Amount in USD
<b>Monthly free</b>	15.00
<b>Connection number</b>	<b>Connection duration</b>
Connection: +11 (0)222 333 441	00:01:01
Connection: +11 (0)222 333 442	00:01:02
Connection: +11 (0)222 333 443	00:01:03
Connection: +11 (0)222 333 444	00:01:04
Total net	19.60
19.00% Tax	3.72
<b>Total Amount</b>	<b>23.32</b>

Sample 3:  
**Merging image data.**

# Merging image data

```
$mailMerge = new Zend_Service_LiveDocx_MailMerge();

$mailMerge->setUsername(DEMOS_ZEND_SERVICE_LIVEDOCX_USERNAME)
            ->setPassword(DEMOS_ZEND_SERVICE_LIVEDOCX_PASSWORD);

$photoFilename = 'dailemaitre.jpg';

if (!$mailMerge->imageExists($photoFilename)) {
    $mailMerge->uploadImage($photoFilename);
}

$mailMerge->setLocalTemplate('template.docx');

$mailMerge->assign('name',      'Dai Lemaitre')
            ->assign('company', 'Megasoft Co-operation')
            ->assign('date',    Zend_Date::now()->toString(Zend_Date::DATE_LONG))
            ->assign('image:photo', $photoFilename);

$mailMerge->createDocument();

$document = $mailMerge->retrieveDocument('pdf');

file_put_contents('document.pdf', $document);

$mailMerge->deleteImage($photoFilename);

unset($mailMerge);
```

**LiveDocx Conference Pass**



Name: Dai Lemaitre  
Company: Megasoft Co-operation  
Date: October 6, 2010

Sample 4:  
**Exporting to one or  
more image files.**

# Exporting to image files

```
$mailMerge = new Zend_Service_LiveDocx_MailMerge();

$mailMerge->setUsername(DEMOS_ZEND_SERVICE_LIVEDOCX_USERNAME)
    ->setPassword(DEMOS_ZEND_SERVICE_LIVEDOCX_PASSWORD);

$mailMerge->setLocalTemplate('template.docx');

$mailMerge->assign('software', 'Magic Graphical Compression Suite v1.9')
    ->assign('licensee', 'Daï Lemaitre')
    ->assign('company', 'Megasoft Co-operation')
    ->assign('date', Zend_Date::now()->toString(Zend_Date::DATE_LONG))
    ->assign('time', Zend_Date::now()->toString(Zend_Date::TIME_LONG))
    ->assign('city', 'Lyon')
    ->assign('country', 'France');

$mailMerge->createDocument();

// Get all bitmaps
$bitmaps = $mailMerge->getAllBitmaps(100, 'png'); // zoomFactor, format

// Get just bitmaps in specified range
// $bitmaps = $mailMerge->getBitmaps(2, 2, 100, 'png'); // fromPage, toPage, zoomFactor, format

foreach ($bitmaps as $pageNumber => $bitmapData) {
    $filename = sprintf('document-page-%d.png', $pageNumber);
    file_put_contents($filename, $bitmapData);
}

unset($mailMerge);
```

# **Working with templates: Local vs. remote.**

# Local vs. remote templates

- Local templates (on client machine).
  - Template is transferred with every request.
  - Suitable for small templates.
  - Useful, if template is constantly changing.
- Remote templates (on LiveDocx server).
  - Template is uploaded once and stored in account.
  - Referenced with every request.
  - Suitable for large templates.
  - Speeds up document creation process.

# Using local templates

```
// Using a local template

$mailMerge = new Zend_Service_LiveDocx_MailMerge();

$mailMerge->setUsername(DEMOS_ZEND_SERVICE_LIVEDOCX_USERNAME)
            ->setPassword(DEMOS_ZEND_SERVICE_LIVEDOCX_PASSWORD);

$mailMerge->setLocalTemplate('./template.docx');

// assign data and create document

unset($mailMerge);
```

***Specify template  
in every request.***

# Using remote templates

```
// Using a remote template (1)

$mailMerge = new Zend_Service_LiveDocx_MailMerge();

$mailMerge->setUsername(DEMOS_ZEND_SERVICE_LIVEDOCX_USERNAME)
            ->setPassword(DEMOS_ZEND_SERVICE_LIVEDOCX_PASSWORD);

$mailMerge->uploadTemplate('template.docx');

unset($mailMerge);
```

*Upload template once.*

```
// Using a remote template (2)

$mailMerge = new Zend_Service_LiveDocx_MailMerge();

$mailMerge->setUsername(DEMOS_ZEND_SERVICE_LIVEDOCX_USERNAME)
            ->setPassword(DEMOS_ZEND_SERVICE_LIVEDOCX_PASSWORD);

$mailMerge->setRemoteTemplate('template.docx');

// assign data and create document

unset($mailMerge);
```

*Reference template  
in all subsequent  
requests.*

**Supported file formats.**

# Supported template formats

- DOCX - Office Open XML format.
- DOC - Microsoft Word DOC format.
- RTF - Rich text format.
- TXD - TX Text Control format.

# Supported document formats

- DOCX - Office Open XML format.
- DOC - Microsoft Word DOC format.
- HTML - XHTML 1.0 transitional format.
- RTF - Rich text format.
- PDF - Acrobat portable document format.
- TXD - TX Text Control format.
- TXT - ANSI plain text.

# Supported image export formats

- Documents can also be exported to images:
  - BMP - Bitmap image file format.
  - GIF - Graphics interchange format.
  - JPG - Joint photographic experts group format.
  - PNG - Portable network graphics format.
  - TIFF - Tagged image file format.

# Supported image import formats

- Images can be imported from:
  - BMP - Bitmap image file format.
  - GIF - Graphics interchange format.
  - JPG - Joint photographic experts group format.
  - PNG - Portable network graphics format.
  - TIFF - Tagged image file format.
  - WMF - Windows meta file format.

# LiveDocx security

- All communication via HTTPS (SSL).
- LiveDocx uses managed code on the server.
- Data only used for user's application.
- No personal data stored server-side, unless user implicitly uploads data.
- Tight privacy policy available on web site.
- Manufactured by a company with > 20 years experience in software development.

Case study 1:

# **PHP Unconference Hamburg.**

# PHP Unconference Hamburg

- Well established unconference about PHP.
- Attended by 250 people in September 2010.
- Organized by a group of volunteers.
- Very similar in format to this BarCamp.
- LiveDocx was used to create:
  - Delegate badges (approx. 260 units).
  - Vote posters (approx. 50 units).



# PHP UNCONFERENCE HAMBURG

«venue»  
«date»

«name»



# PHP UNCONFERENCE HAMBURG

«venue»  
«date»

«name»

«organization»  
«url»

Geomatikum der Universität Hamburg  
25./26. September 2010

# Habemus Delicatissimi



www.php-unconference.de | #phpunconf | wiki.php-unconference.de

Geomatikum der Universität Hamburg  
25./26. September 2010

# Habemus Delicatissimi

Amet Illum Ltd

www.php-unconference.de | #phpunconf | wiki.php-unconference.de

Powered by LiveDox - document generation for PHP.

WLAN-Einstellungen:  
SSID GUEST  
Sicherheit Web-Authentifizierung, VPN Client  
Benutzer Unconference002  
Passwort jBR59Gwd  
URLs u. Hashtag:  
Blog http://www.php-unconference.de  
Wiki http://wiki.php-unconference.de  
Twitter http://twitter.com/phpunconference  
#phpunconf



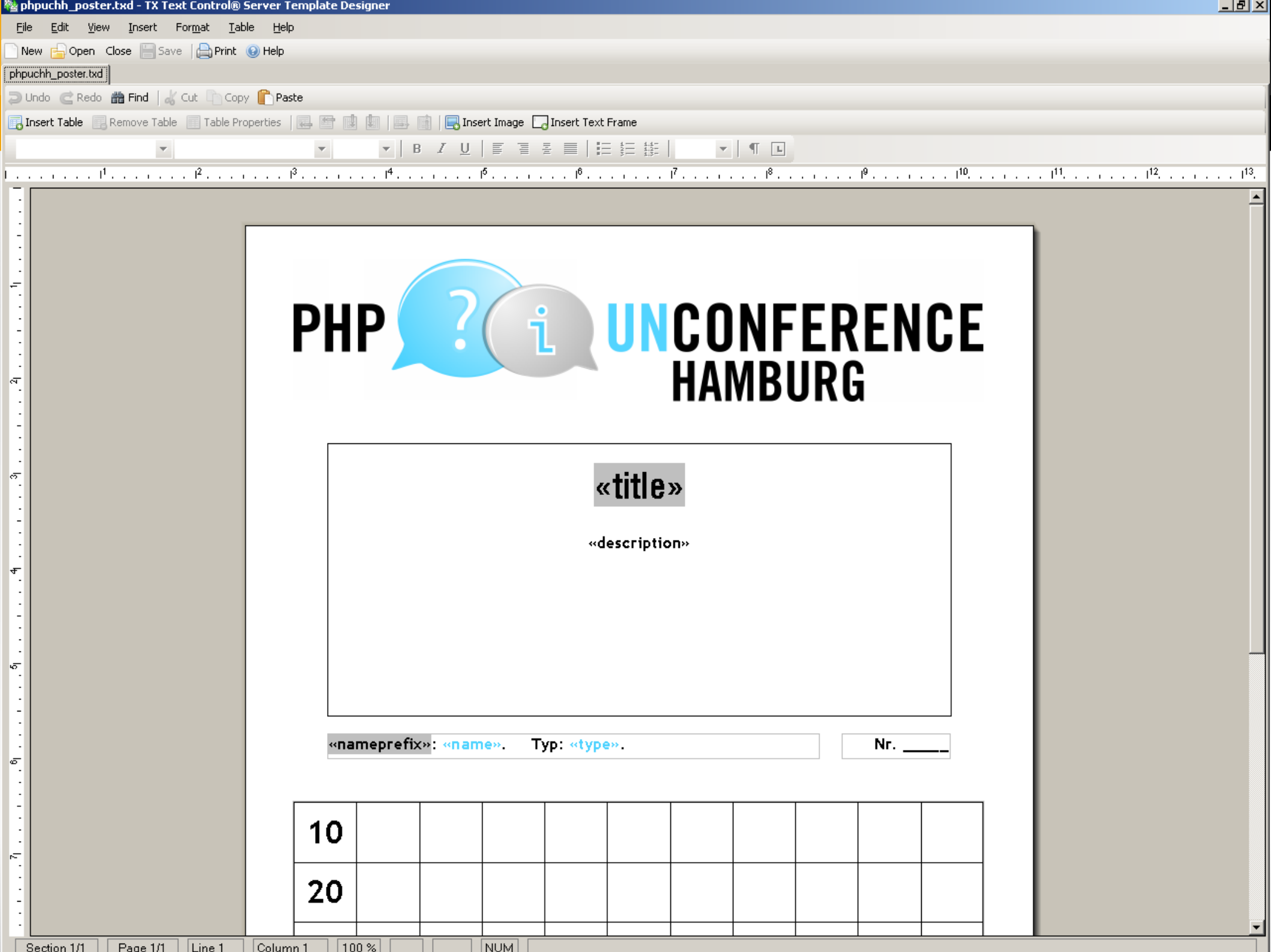
Anleitung für das WLAN mit der SSID "GUEST"

Version 2.3



**1. Voraussetzungen**  
Um den Gastzugang der Universität Hamburg über das WLAN mit der SSID "GUEST" nutzen zu können, müssen folgende Einstellungen an Ihrem Computer gecheckt sein.  
- Der Rechner muss für die automatische Konfiguration der Verbindungspartner per DHCP konfiguriert sein. Dies entspricht auf dem meisten Systemen der Standardkonfiguration.  
- Checkt den Zugriff auf den Internetzugang. Dies bedeutet, dass der Rechner über das Internet mit dem Internet verbunden sein muss.  
- Die Firewall muss für den Zugriff auf das Internet eingestellt sein, d. h. es darf kein Proxy-Server verwendet werden. Ebenso ist die automatische Konfiguration des Proxy-Servers zu deaktivieren.  
**2. Anmeldedaten**  
Um den Zugang für Gäste über die URL über die SSID "GUEST" nutzen zu können, ist es erforderlich, die Anmeldedaten zu konfigurieren.  
- Die Anmeldedaten sind das WLAN zu verbinden. Hierfür wählen Sie bitte dieses WLAN aus der Liste der verfügbaren Funknetzwerke aus und aktivieren die Verbindung.  
- Die Anmeldedaten sind das WLAN zu verbinden. Hierfür wählen Sie bitte dieses WLAN aus der Liste der verfügbaren Funknetzwerke aus und aktivieren die Verbindung.

Abb. 1a: Anmelden / Abb. 1b: Abmelden  
Nach dem Start einer Internetbrowser und dem Aufruf einer beliebigen Internetseite werden Sie auf die GUEST-Login-Seite weitergeleitet (Abb. 1a). Nach der erfolgreichen Anmeldung können Sie beliebige Seiten im Internet aufrufen.  
**3. Abmelden**  
Als Nutzer einer Gastkonexion haben Sie die Möglichkeit, die Verbindung vor Ablauf der automatischen Trennung (s.u.) zu beenden. Zur Abmeldung muss die URL http://webportal.uni-hamburg.de/guest/abmelden werden. Nachdem die Trennung der Verbindung durch die Auswahl des Buttons "Logout" gewählt wurde (Abb. 1b), erscheint die Bestätigung der erfolgreichen Trennung der Verbindung.  
**4. Automatische Trennung**  
Die Verbindung zum Funknetz GUEST wird automatisch nach 120 Minuten getrennt, dabei ist es eine Voraussetzung, dass die Verbindung länger als 120 Minuten genutzt, müssen Sie sich nach dieser Zeitspanne erneut anmelden.  
Das Verhalten nach der automatischen Trennung unterscheidet sich zwischen Microsoft Windows und MacOS-X. Sobald Sie nach der automatischen Trennung unter Microsoft Windows erneut versuchen, eine Internetseite aufrufen, werden Sie automatisch auf die Anmeldeseite weitergeleitet. Nach erneuter Eingabe der Kennung und des Passwortes haben Sie wieder Zugriff auf das Internet.  
Unter MacOS-X wird die Anmeldeseite nicht weitergeleitet, sondern Sie werden auf die Verbindung unter MacOS-X automatisch deaktiviert, nachdem Sie die IP-Adresse-Schnittstelle erneut deaktivieren und gleich wieder aktivieren. Anschließend können Sie sich erneut anmelden (s.u.).  
RRZ ServiceLine  
Phon: 42338 - 7790  
E-Mail: rz.zer@rz.uni-hamburg.de  
http://www.rz.uni-hamburg.de/kontakt/verteilung.html  
Name: Netzgruppe des Regionalen Rechenzentrums der Universität Hamburg



PHP  UNCONFERENCE  
HAMBURG

<<title>>  
<<description>>

<<nameprefix>>: <<name>>. Typ: <<type>>. Nr. \_\_\_\_

10										
20										

## Zend Framework 2.0 - Vorschau auf Zend Framework 2.0.

Ich kann dieses Thema gerne moderieren bzw. ein wenig vorbereiten. Es werden aber eher grundsätzliche Dinge sein, die für das ZF 2.0 geplant sind. Es wird weniger konkreter Code oder Änderungen in den Features einzelner Komponenten sein. Vor einer stabilen ZF 2.0 Version kann meiner Meinung nach nicht vor dem Q1/2011 gerechnet werden.

Anbieter:

. Typ: [Angebot](#).

Nr. \_\_\_\_\_

10										
20										
30										
40										
10										
20										
30										
40										

# PHP Unconference Europe

- European version of PHP Unconference Hamburg.
- When? 19<sup>th</sup> & 20<sup>th</sup> February 2011.
- Where? **TheStudio**, Manchester, UK.
- <http://www.phpuceu.org/>
- Ticket are now on sale (€46 or £40 for 2 days).
- LiveDocx will be used to create:
  - Delegate badges (approx. 200 units).
  - Vote posters (approx. 50 units).

Case study 2:

# **The Imaging Source**

**Leading manufacturer of digital machine vision cameras for industrial applications.**

# The Imaging Source (1)

- Approx. 100 employees on 3 continents:
  - 25 of whom are always on the road.
  - 75 of whom are based in a physical office.
- Deploy LiveDocx in .NET CRM application.
- CRM application's architecture:
  - Centralized server in USA.
  - Each employee has a client application.
  - LiveDocx server is remote, access only via SOAP.
  - Inter-component communication via SSL.

# The Imaging Source (2)

- CRM uses LiveDocx to create:
  - All proposals (i.e. quotations).
  - All letters.
  - All faxes.
  - All invoices.
  - All delivery notes.
  - All reseller price lists.

QuoteID	Region	ContactPersonID	Last name	First name	CustomerID	Company	Department	Quote date	Shipping date	Valid until	Processed
A10111825	TIS Europa							11/18/2010		1/18/2011	JM

ItemNr	Article code	Quantity	Description	List price	Discount	Discount units	Unit price	Remarks
1	DMK 22AUC03	15	The Imaging Source "One for all" Kamera, USB 2.0, 1/3" CMOS, mon...	219.00	0	Percent	219.00	
2	DFK 22AUC03	15	The Imaging Source "One for all" Kamera, USB 2.0, 1/3" CMOS, Far...	219.00	0	Percent	219.00	

ItemNo	2		Product description	The Imaging Source "One for all" Kamera, USB 2.0, 1/3" CMOS, Farbe, max. Auflösung 744x480, ROI für höhere Bildwiederholraten, Global Shutter, C/CS-mount, OHNE Objektiv und Kabel.
Article code	DFK 22AUC03	<		
Quantity	15			
List price	219.00			
Discount	0	Percent		
Unit price	219.00			
Purchase price	*****		Remarks	
Profit	*****	EUR		
	*****	%		

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chk price

Edit

New

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Angebot A10111825  
Seite 1 von 4



www.theimagingsource.com

The Imaging Source Europe GmbH, Sommerstraße 36, 28215 Bremen, Germany



Maron, Jonathan  
[Redacted]  
[Redacted]

28 Bremen

**Angebot A10111825**  
**Kd.-Nr.:** [Redacted]  
**Kontakt-Nr.:** [Redacted]

Bremen, 18.11.2010

Hello Jonathan

bezugnehmend auf Ihre heutige Anfrage und unter Berücksichtigung unserer Allgemeinen Geschäftsbedingungen bieten wir Ihnen nachstehend aufgeführte Bildverarbeitungs-komponenten wie folgt an:

Bestellbez.	Anz.	Produkt	Einzelpreis netto	Gesamt netto
DMK 22AUC03	15	The Imaging Source "One for all" Kamera,	EUR 219,00	EUR 3.285,00

Angebot A10111825  
Seite 1 von 4



www.theimagingsource.com

The Imaging Source Europe GmbH, Sonnenstraße 36, 28215 Bremen, Germany

Maron, Jonathan

28 Bremen



071 5811 1100

Angebot A10111825

Kd.-Nr.: [REDACTED]

Kontakt-Nr.: [REDACTED]

Bremen, 18.11.2010

Hello Jonathan

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Bestellbez.	Anz.	Produkt	Einzelpreis netto	Gesamt netto
DMK 22AUC03	15	The Imaging Source "One for all" Kamera, USB 2.0, 1/3" CMOS, monochrom, max. Auflösung 744x480, ROI für höhere Bildwiederholraten, Global Shutter, C/CS-mount, OHNE Objektiv und Kabel.  Beiliegende SOFTWARE:  Für Anwender: • IC Capture TIS - Speichert Bilder und AVIs  Für Entwickler: • IC Imaging Control TIS - Image acquisition components: + NET component + ActiveX	EUR 219,00	EUR 3.285,00

**European Office**

Sonnenstraße 36  
28215 Bremen, Germany  
Phone: +49(0)421/33591-0  
Fax: +49(0)421/33591-40

**Brancher Landesbank**

BLZ 250 500 00  
Konto 100 8016 909  
SWIFT-Code: MALADE 33  
IBAN: DE32 2505 0000 1008 2140 09

**Die Sparkasse in Bremen**

BLZ 250 501 01  
Konto 100 9163  
SWIFT-Code: SBADDE 33  
IBAN: DE32 2505 0101 9001 0094 43

**Ansprüche Bremen HRB 11927**

VST-Nr.: DE 114 407 019  
FA HR-Platz: St.-Nr. 71 394 04448  
WERS-Reg-Nr.: DE 7950188  
GF: Heiner Sühr / Axel Bollhans

Angebot A10111825  
Seite 2 von 4



www.theimagingsource.com

		<ul style="list-style-type: none"> <li>+ C++ Class Library</li> <li>• Erweiterungen:               <ul style="list-style-type: none"> <li>+ IC Ext AVT - für ActivVisionTools</li> <li>+ IC Ext HAL - für Halcon</li> <li>+ IC Ext LVI - für LabVIEW</li> <li>+ IC Ext MML - für ML</li> </ul> </li> </ul> <p>Treiber:</p> <ul style="list-style-type: none"> <li>• IC WDM UVCCAM TIS - WDM Stream Class-Treiber</li> <li>• IC TWAIN WDM - TWAIN-Treiber</li> </ul>		
DFK 22AUC03	15	The Imaging Source "One for all" Kamera, USB 2.0, 1/3" CMOS, Farbe, max. Auflösung 744x480, ROI für höhere Bildwiederholraten, Global Shutter, C/CS-mount, OHNE Objektiv und Kabel.  Beiliegende SOFTWARE:  Für Anwender: • IC Capture TIS - Speichert Bilder und AVIs  Für Entwickler: • IC Imaging Control TIS - Image acquisition components: + NET component + ActiveX + C++ Class Library • Erweiterungen: + IC Ext AVT - für ActivVisionTools + IC Ext HAL - für Halcon + IC Ext LVI - für LabVIEW + IC Ext MML - für ML  Treiber: • IC WDM UVCCAM TIS - WDM Stream Class-Treiber • IC TWAIN WDM - TWAIN-Treiber	EUR 219,00	EUR 3.285,00



Questions? Your opinion?



# Get involved! Try it out yourself!

- **Zend\_Service\_LiveDocx Web Site.**  
<http://www.phplivedocx.org> and  
<http://framework.zend.com/manual/en/zend.service.livedocx.html>
- **Brief introduction to LiveDocx in PHP.**  
<http://www.phplivedocx.org/articles/brief-introduction-to-phplivedocx/>
- **Getting started with LiveDocx in PHP.**  
<http://www.phplivedocx.org/articles/getting-started-with-phplivedocx/>
- **LiveDocx Web Site and Blog.**  
<http://www.livedocx.com>
- **Sign up for a LiveDocx account.**  
[https://www.livedocx.com/user/account\\_registration.aspx](https://www.livedocx.com/user/account_registration.aspx)