



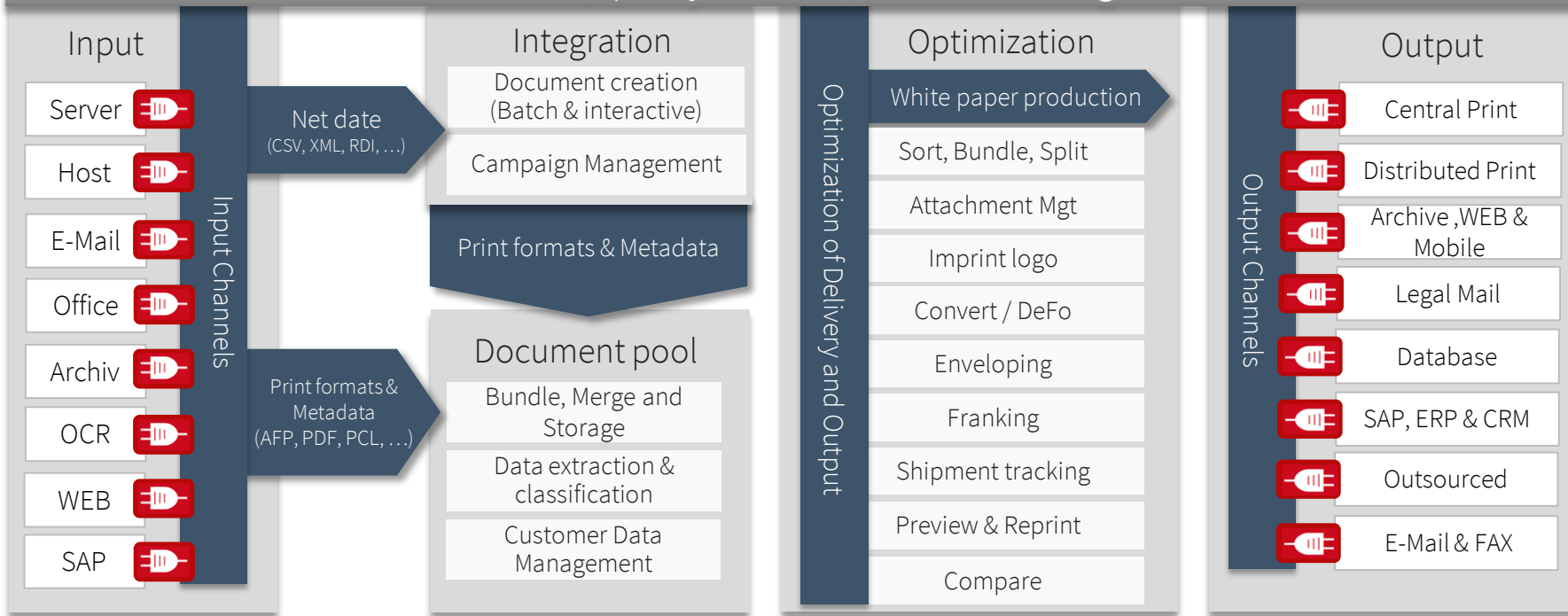
CSS Print Position Paper

Creating Business Documents with CSS







DocBridge®

Process Automation and Workflow Engine
Control, quality assurance and monitoring



The Basis for Our Customized Solutions

- **DocBridge®
Mill Plus** Market leader in document optimization. Provides high performance converting, indexing and modifying documents of any format.
- **DocBridge®
FileCab** The enterprise solution for checking and sending business correspondence from the PC. Enables audit-proof processes, saves working time and significantly reduces the number of remote printers.
- **DocBridge®
Pilot** Enables maximally optimized output management processes. Collects and mixes all documents from a wide variety of sources and offers multi-channel output optimized for web, print, archive and other ways of addressing customers.
- **DocBridge®
Delta** The comparison solution for quality assurance and process optimization in document design. Shows all the differences between two documents. With modules for end users and for automated comparison.
- **DocBridge®
Impress** Document creation for print, web and mobile from one source. High-performance solution for the page-independent and omni-channel-capable document design.
- **DocBridge®
Queue Processor** Control center for controlling and optimizing print production from various input channels. Integrates conversion, supports PDF Object Container in AFP, and provides print-speed-optimized printing.

Matrix

... we can do almost any format

Input	AFP	PDF & PDF/A	PCL5 & HPGL	PCL6	PostScript	VPS	Linemode ASCII/EBCDIC	Metacode/DJDE	IPDS	IJPDS	XPS	XML	HTML5	SVG	Raster Formats**	PC Printer	ZPL	DPL	ESC/P
AFP	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
PDF & PDF/A	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
PCL 5 & HPGL	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
PCL 6	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
PostScript	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
PPML	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
VIPP*	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
VPS	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
Linemode ASCII/EBCDIC	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
LCDS/DJDE	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
Metacode/DJDE	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
IPDS*	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
PRESCRIBE	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
XPS	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
XML	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
HTML5	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
XSL-FO	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
SAP ALF+ OTF	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
SVG	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
Raster Formats**	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
PC Documents	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<

*With restrictions **Support of the raster formats: BMP, ICCA, JPEG, GIF, PCL, PNG, TGA, HD Photo, JPEG 2000 and TIFF

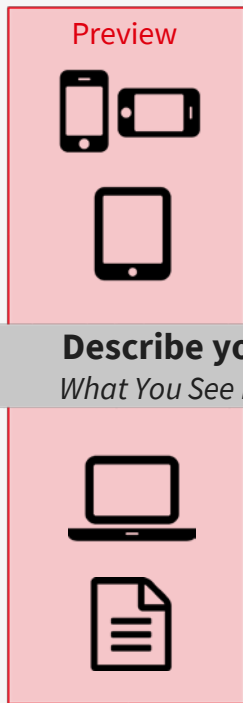
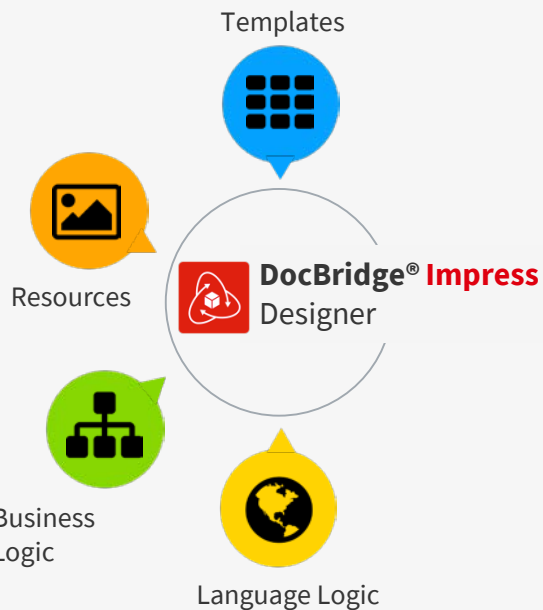
Membership

We Set Standards



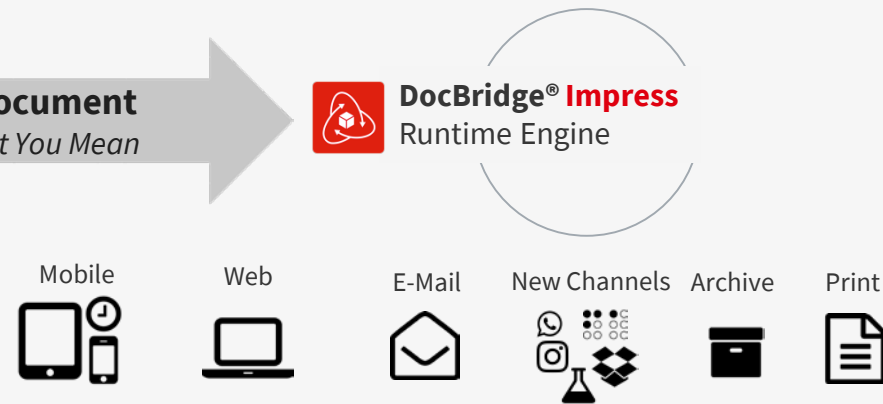
Digital First with Printing in Mind

Design: Once



Describe your Document
What You See is What You Mean

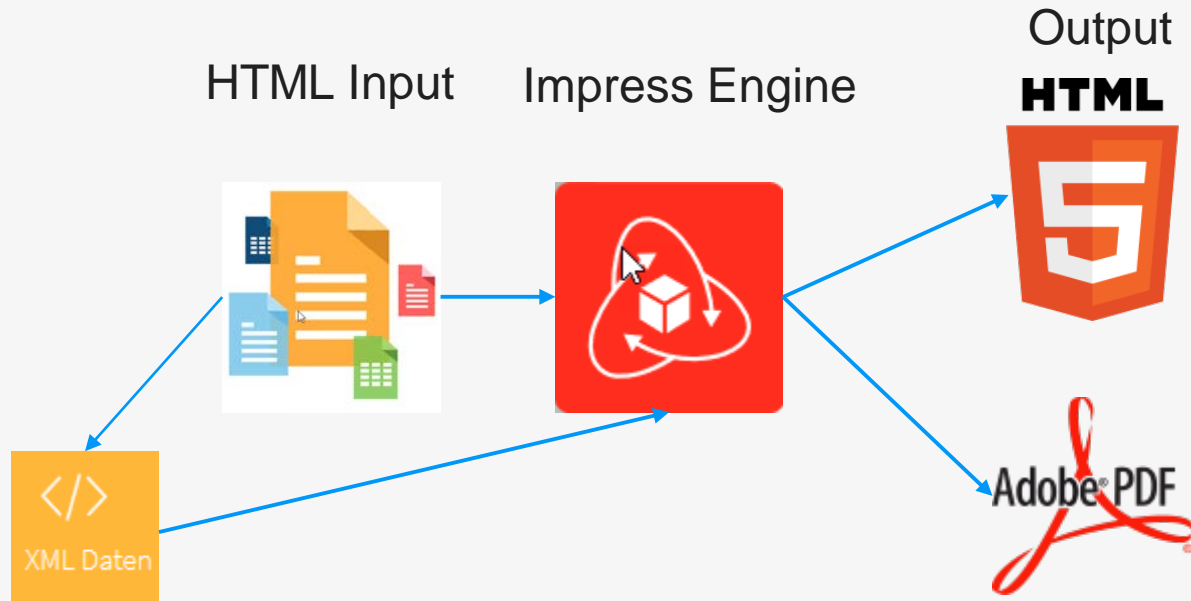
Input: Batch and Transactional



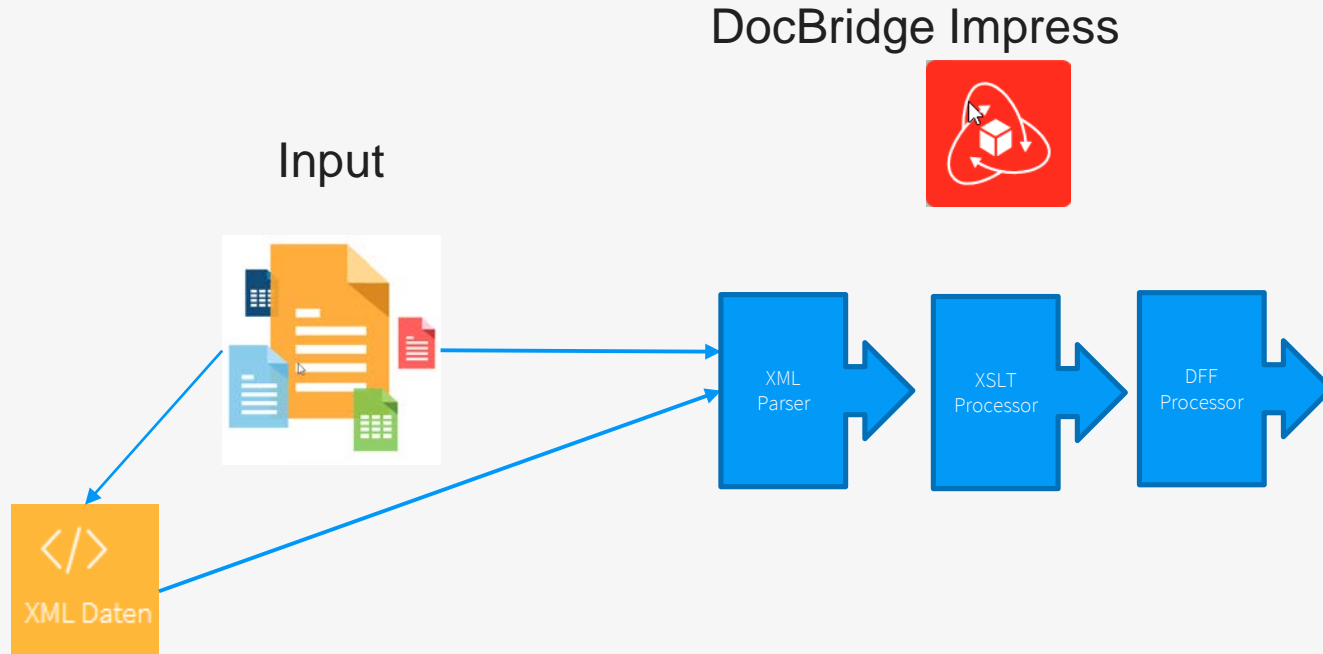
Output: Any Channel, Any Time

Was ist DocBridge Impress?

DocBridge Impress Engine Übersicht



Document Design/Creation Step	Technology
Designing the document including content and layout	HTML and CSS/Print CSS Xinclude for modularization
Inserting variable data	XSLT and XPath
Setting up the output processes	Batch or REST



§ 1.0	XSL Elements	
§ 1.0.12	xsl:call-template	1.0
§ 1.0.15	xsl:choose	1.0
§ 1.0.16	xsl:comment	1.0
§ 1.0.19	xsl:copy-of	1.0
§ 1.0.20	xsl:decimal-format	1.0
§ 1.0.26	xsl:for-each	1.0
§ 1.0.31	xsl:if	1.0
§ 1.0.44	xsl:message	1.0
§ 1.0.55	xsl:otherwise	1.0
§ 1.0.59	xsl:param	1.0
§ 1.0.63	xsl:result-document	2.0
§ 1.0.69	xsl:template	1.0
§ 1.0.70	xsl:text	1.0
§ 1.0.74	xsl:value-of	1.0
§ 1.0.75	xsl:variable	1.0
§ 1.0.76	xsl:when	1.0
§ 1.0.78	xsl:with-param	1.0

Example of a simplified stylesheet

```
<?xml version="1.0" encoding="UTF-8"?>
<html
  xmlns="http://www.w3.org/1999/xhtml"
  xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
  xsl:version="1.0">
  <head>
    <title>Test</title>
  </head>
  <body>
    <xsl:for-each select="//*[local-name()='child']">
      <p><xsl:value-of select="text()" /></p>
    </xsl:for-each>
  </body>
</html>
```

- XPath 1.0 and some higher-level

§ 4.1	Node Set Functions	
§ 4.1	last()	1.0
§ 4.1	position()	1.0
§ 4.1	count()	1.0
§ 4.1	id()	1.0
§ 4.1	local-name()	1.0
§ 4.1	namespace-uri()	1.0
§ 4.1	name()	1.0

§ 4.4	Functions on Numeric Values	
§ 4.4	number()	1.0
§ 4.4	ceiling()	1.0
§ 4.4	floor()	1.0
§ 4.4	round()	1.0
§ 4.4	sum()	1.0

§ 4.2	Functions on Strings	
§ 4.2	string()	1.0
§ 4.2	concat()	1.0
§ 4.2	starts-with()	1.0
§ 4.2	contains()	1.0
§ 4.2	substring-before()	1.0
§ 4.2	substring-after()	1.0
§ 4.2	substring()	1.0
§ 4.2	string-length()	1.0
§ 4.2	normalize-space()	1.0
§ 4.2	translate()	1.0
§ 4.2	upper-case()	2.0
§ 4.2	lower-case()	2.0

Functions and Operators on Dates and Times	
fn:format-dateTime()	3.0, 3.1
fn:format-date()	3.0, 3.1
fn:format-time()	3.0, 3.1

Extensions
cp:pad-left
cp:pad-right

Compart HTML Extensions: DFF Namespace

```
xmlns:dff="http://www.compart.com/ns/dff"
```

- Barcodes
- External document insertion
- Table marker
- Media content filter
- Meta data (AFP TLE, NOP)
- Table of contents
- External requests



-cp- prefix

- -cp-role
- -cp-default-line-height
- -cp-table-omit-header-at-break
- -cp-table-omit-footer-at-break
- -cp-duplex-printing
- -cp-background-image-page-number
- -cp-input-tray

- Large number of CSS specifications with limited information on print and paged
- Some relevant specifications for paged media, generated content are working drafts only
- Sometimes missing or unclear specifications regarding print/ page handling
 - e.g. table header and footer repeat/non-repeat
- Missing specifications for many relevant features for paged media
 - Table of contents
 - Index
 - Format-specific features such as PDF annotations, tags

1. Identification of a list of relevant specifications/relevant aspects of specifications for Print CSS implementers
2. Finalize relevant specifications for print (paged media module, generated content, etc.), recommendations as standard for implementers³
3. Clear recommendations for accessible design, WCAG and PDF/UA.
4. Review XSL-FO specifications and identify relevant features missing in Print CSS.
5. Create a list of print specific issues with the CSS specifications (backlog) which implementers and other print CSS users could review and prioritize