

Embrace Evolution: Web-to-Print Prepared for Pacific Printing & Imaging Wilson Zehr, CEO, Cendix

February 2008

Web-to-Print Automation Threat or Opportunity?

Technology that Delivers





Web-to-Print Automation Printing Industry Profile

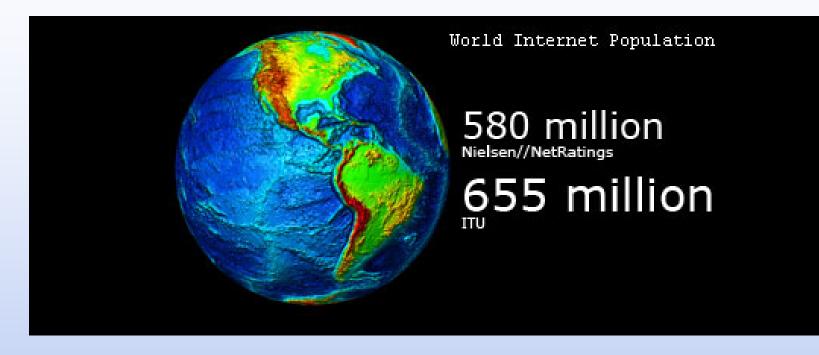
- Capital intensive
- Excess capacity
- Commodity business
 - Many vendors
 - Similar products
 - Price-based competition
- Rapidly evolving technology
- Technology expertise limited



Print is NOT Going Away; Other Mediums are Growing



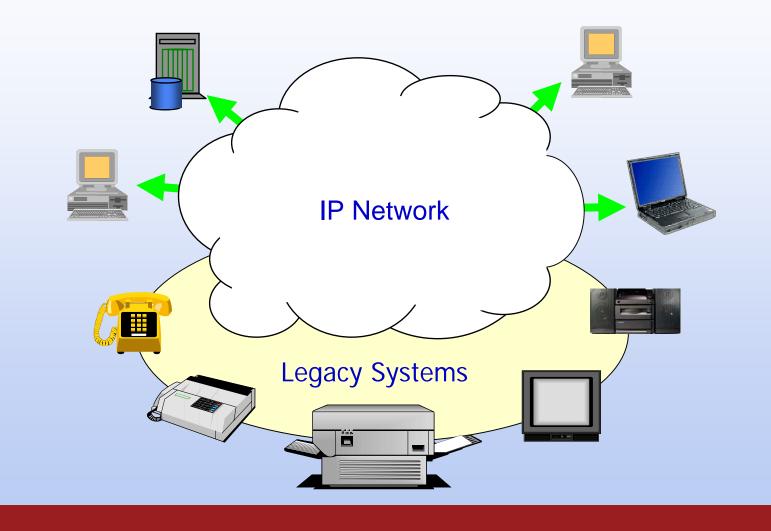
Web-to-Print Automation Internet Emergence



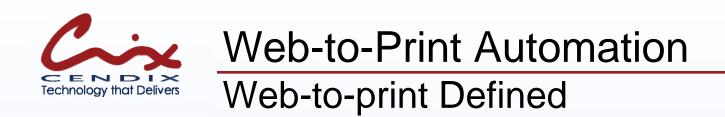
- Ubiquitous (20% of world population online)
- Advantages: content rich, immediate, global reach, low friction
- Disadvantages: passive, separate world, communication connectivity...



Internet Convergence: Web-to-stuff



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Web-to-print is a process that bridges the gap between digital content online and commercial print production. This process is supported by software and tools that allow print buyers (consumers or businesses) to present documents or other printed materials digitally for production by commercial print providers.

Online tools for web-to-print can assist with digital asset management, customization, list management, scheduling, work flow, and end-toend communication. There are a wide variety of web-to-print solutions available to solve an endless variety of customer, commercial printer, and communication challenges.



Web-to-Print Automation Representative Cendix Applications

	One to One		One to Many	
Consumer Applications	Zairmail Jan-00 IPP Mar-06	Instaletter Jun-01	SpeedGreetings Sep-00	
	Green Dog	Cendix	LongTermClients	
	Aug-07	Jul-04	Aug-07	
Business	Print to Zairmail	CMP	Express Direct	
Applications	Jun-02	Sep-04	Jun-00	

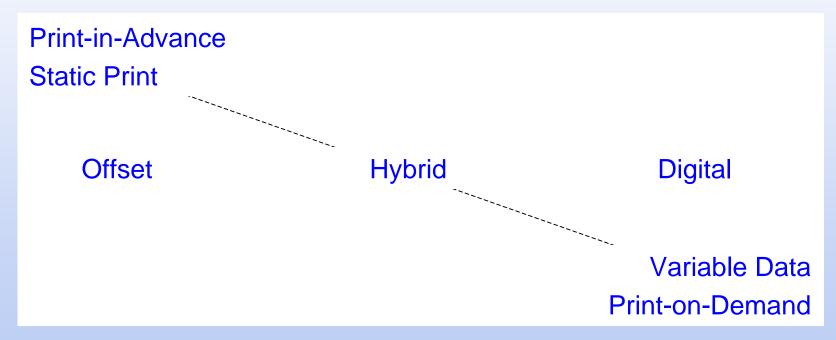


Web-to-Print is NOT...

Print-on-Demand

- Less waste/spoilage
- No inventory

- Inline personalization
- Increase flexibility



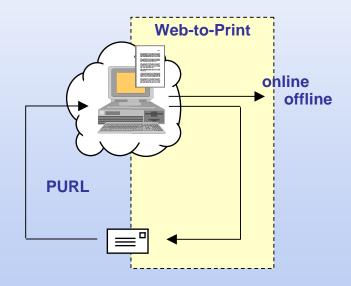
Corollary: Print-on-Demand is NOT just digital print

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Personal Universal Resource Locater (URL) is a meaningful Web address that is used to guide responses from marketing campaigns back to a Web site where they can be captured electronically. This tool can be used with either offline or online promotions.

- Direct response mechanism
 - Guide to Web page (micro site)
 - Compliments phone/mail/Fax
 - Interactive response
- Simplifies collection/tabulation
- Streamline online responses
- Easily append list files



closed loop direct mail

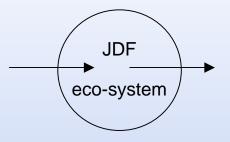


Web-to-Print is NOT...

Job Definition Format (JDF)

- Job Definition Format (JDF)
 - Electronic work-order
 - Standard XML tags
 - Standard format
- Job Messaging Format (JMF)
- Bi-directional work-flow automation
- Managed industry standard (CIP4*)
- Standard subject to interpretation
- Owning JDF devices <> using JDF
- Web-to-print possible with/without JDF







Web-to-Print Automation Advantages

- Add additional value for clients/clients of clients
 - Online interaction is "expected"
 - Improve communication
 - Streamline ordering
 - Order 24 x 7
- Integrate into Clients operations (symbiotic)
 - Reduce price-based competition
 - Increase switching cost
 - Increase margins
- Effective competitive response
- Reduce operating expenses



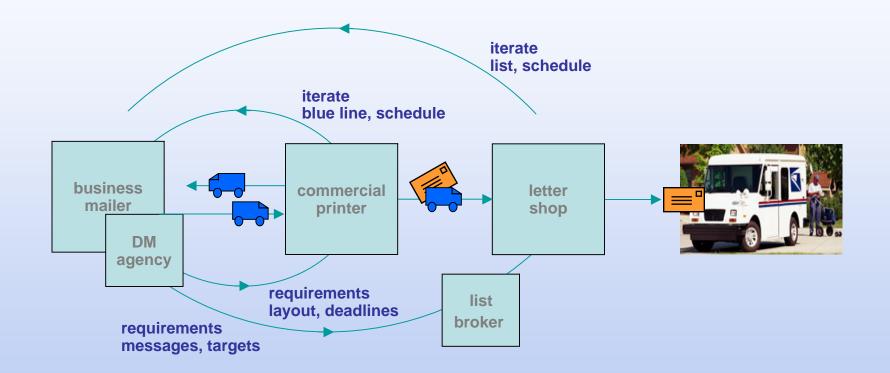


Web-to-Print Automation Facts of Life

- Requires Investment (not FREE!)
 - Investment in software
 - Investment in systems
 - Operations planning
 - Sales training
- Things will Break
 - Existing processes are not fast enough
 - Existing processes not flexible enough
 - Systems are not integrated
 - Staff will resist change
- Definite Learning Curve (crawl, walk, run...)
- Cannot Anticipate Every Issue/Feature



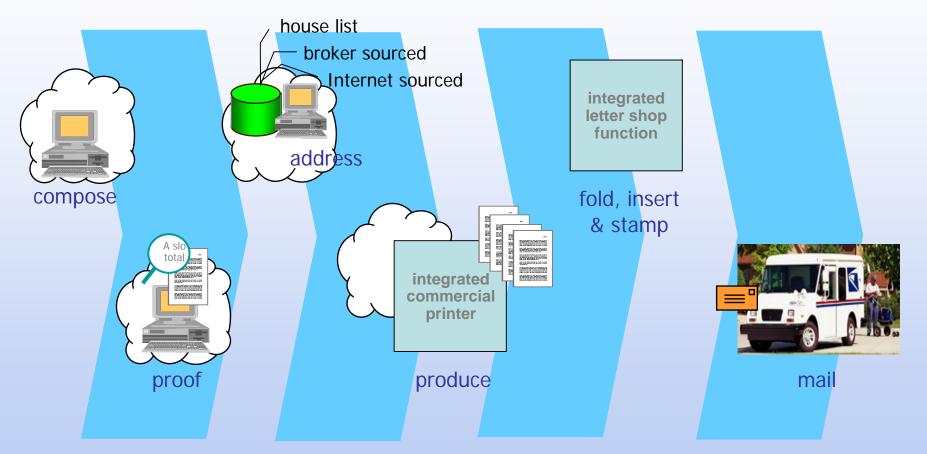






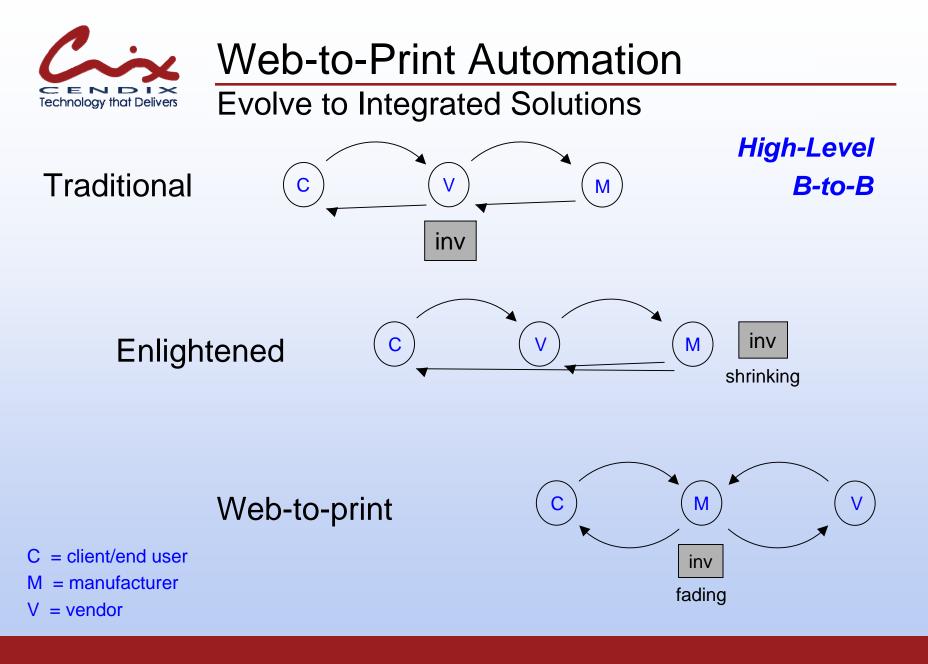
Web-to-Print

Revised Workflow Example



Faster, Easier, and Less Expensive

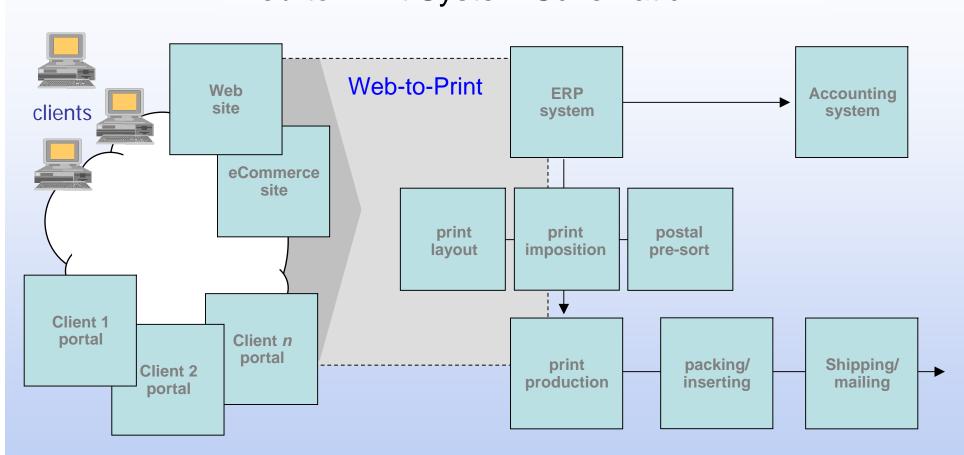
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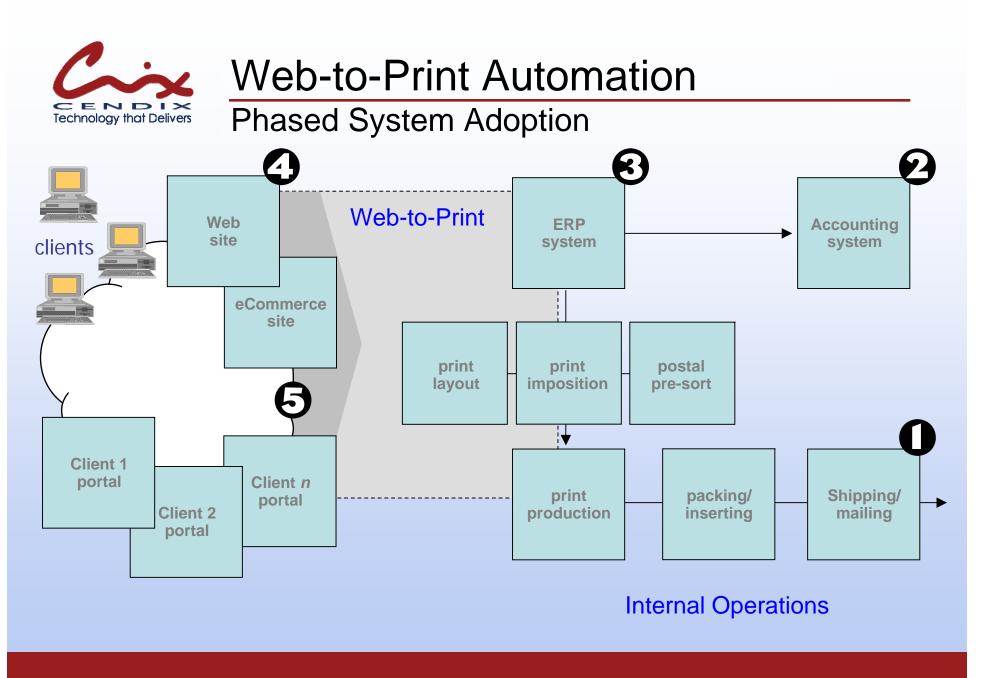
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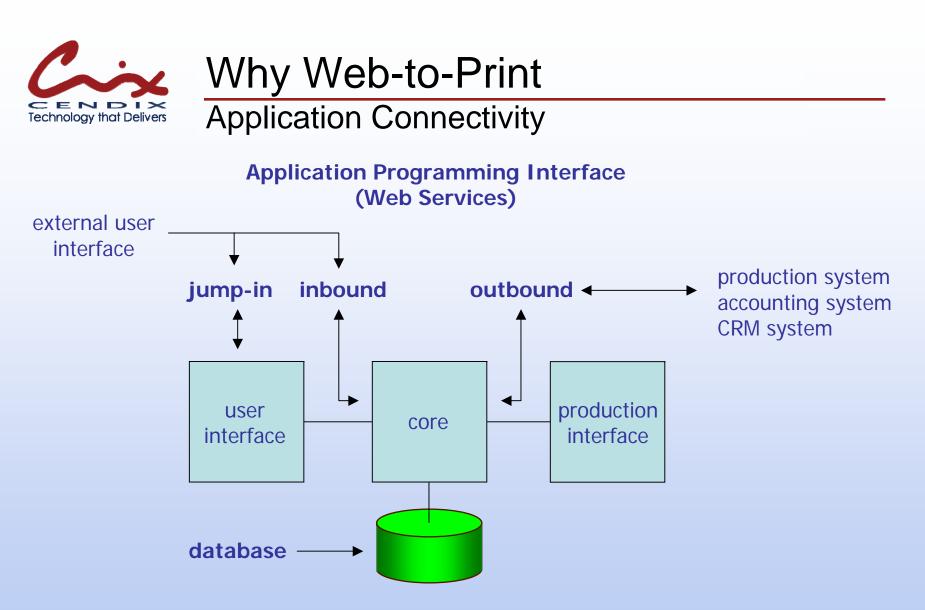


Web-to-Print Automation Web-to-Print System Schematic



Internal Operations





Provides Ability to Flexibly Link to Internal and External Applications

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Online Maturity Model

- Corporate Web site
 - Informational
 - Products
 - Contact
- Rudimentary Automation
 - Upload files
 - Request quote
 - Online contact
- Interactive eCommerce
 - Submit orders
 - Charge online
 - Check status
- Online Applications (portals)
 - Interactive eCommerce
 - Application specific features
 - Client specific branding





Why Web-to-Print

Factors to Consider

- What problem are you trying to solve?
 - Reduce costs?
 - Increase revenue?
 - Competitive response?

• What business do you want to be in?

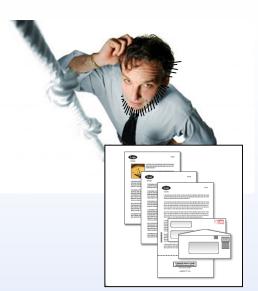
- B to B (small business, small/medium business, enterprise)?
- B to C (standardized, customized, affinity groups)?
- Government or other specialty market?

• What solutions are feasible?

- What stage in Maturity Model?
- How much do you have to invest?
- What is the market window (timeline)?
- What is level of technical expertise exists?

Production work-flow

- What other systems exist?
- Which systems need to connect?
- How tight an integration is required?









Web-to-Print Automation Solutions Available: *Enterprise Software*

Advantages

Unlimited Portals

Disadvantages

- Price: \$30K \$100K
- Customization cost
- Annual maintenance
- Upgrades & integration
- Hardware & systems required
- Software experts required
- No design support

Do You Want to be in the Software Business?



Web-to-Print Automation Solutions Available: On-Demand Software

Advantages

- Usage-based license
- No systems required
- No software required
- No technicians required
- Inexpensive initial license
- No upgrades & integration
- No annual maintenance
- Enterprise data center

Disadvantages

- Limited customization
- 3rd party customization
- No design support

Can You Meet the Unique Needs of Your Customers?



Web-to-Print Automation Solutions Available: *Hosted Solution*

Solutions Available. Hosted Solu

Advantages

- No systems required
- No software required
- No technicians required
- Inexpensive initial license
- Inexpensive monthly hosting
- Extension of technical staff
- No upgrades & integration
- No annual maintenance
- Enterprise data center
- Design support

Disadvantages

- Inexpensive monthly hosting
- Low customization charges
- Portal licensing charges

Are You Comfortable With Your Partner?



Pricing Models

- Enterprise Software
 - License
 - Customization
 - Maintenance
 - Integration
- On-Demand Software
 - Subscription fee
 - Template based
 - Transaction based
- Hosted Solution
 - Initial license
 - Monthly hosting
- Cover cost or pass-through

(\$30,000 - \$100,000+)

(\$1,000 - \$10,000+)



- Solution
- Requirements
- Graphical appearance
- Implementation
- Pilot test
- Launch
- Promote
- Refine

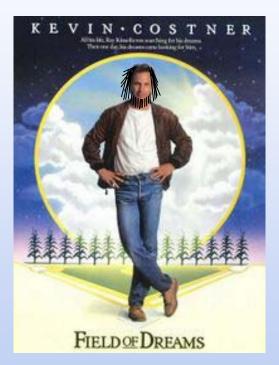




Promotion

"Build It and They Will Come"

- Client Application
 - Announce
 - Train
 - Direct
- Retail Offering
 - Announce
 - Promote
 - Online
 - Offline
 - Refine



Well, Not Really...



Web-to-Print Solution

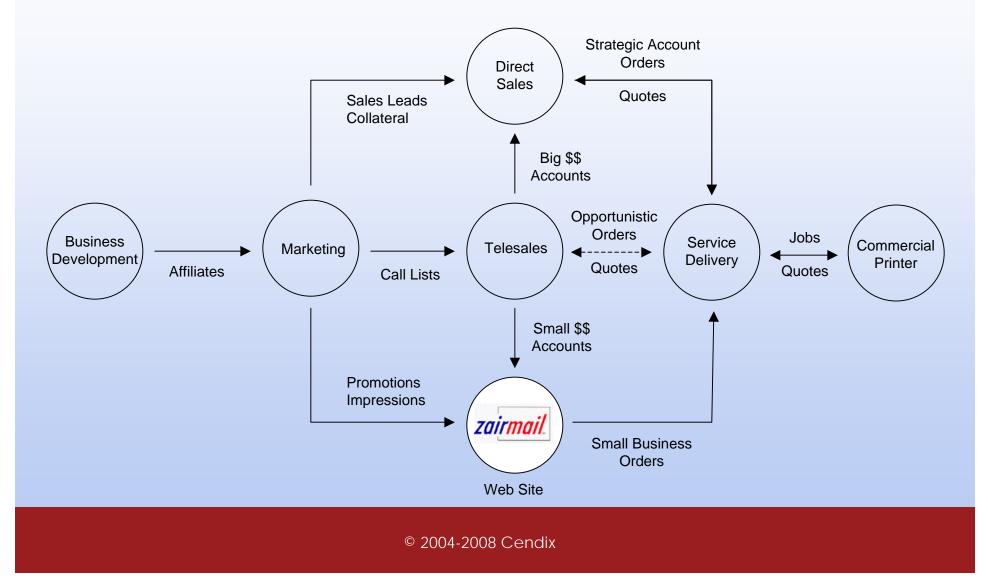
Marketing Example: Zairmail

- Viral Marketing
 - URL on every mail piece
 - URL and offer on every email
 - Company logo on every article and newsletter
- Multiple Points of Contact
 - Order online
 - Toll free number
 - Free sample packet
 - Free email newsletter
- Online Marketing
 - Search engine optimization (organic listings)
 - Pay for performance (paid listings)
 - Contributed articles
 - Paid placements





Web-to-Print Solution Marketing Example: Zairmail





Summary

- No Need to Fear Evolution
- Web-to-print Breeds Opportunity
 - Add additional value for clients
 - Integrate into clients operations
 - Reduce price-based competition
 - Increase switching costs
 - Increase margins
 - Respond to online competitors
 - Reduce operating expenses
- Avoid the ICE
- Embrace Technology and Thrive!





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Wilson Zehr

Wilson is the CEO of Cendix (<u>www.cendix.com</u>) the leading provider of Web-to-print solutions that increase sales both online and offline. Cendix also provides strategic and tactical marketing consulting services for emerging growth companies in the Pacific Northwest. In addition, Wilson serves on the faculty for the School of Management at Concordia University, Portland, Oregon (<u>www.cu-portland.edu</u>).

Wilson Zehr has 25 years experience in high technology and telecom – over a decade of experience working with Internet-related products and services. He has created numerous new products/brands and successfully brought them to market. In addition, he has crafted and managed strategic alliances with many (20+) of the largest technology and communications firms in the world. Mr. Zehr is a serial entrepreneur who has raised over \$60 million from investors; returned over \$160 million; and bought/sold a number of enterprises.

More detailed background information on Wilson can be found at <u>http://www.cendix.com/about/management.html</u>

References are available on request