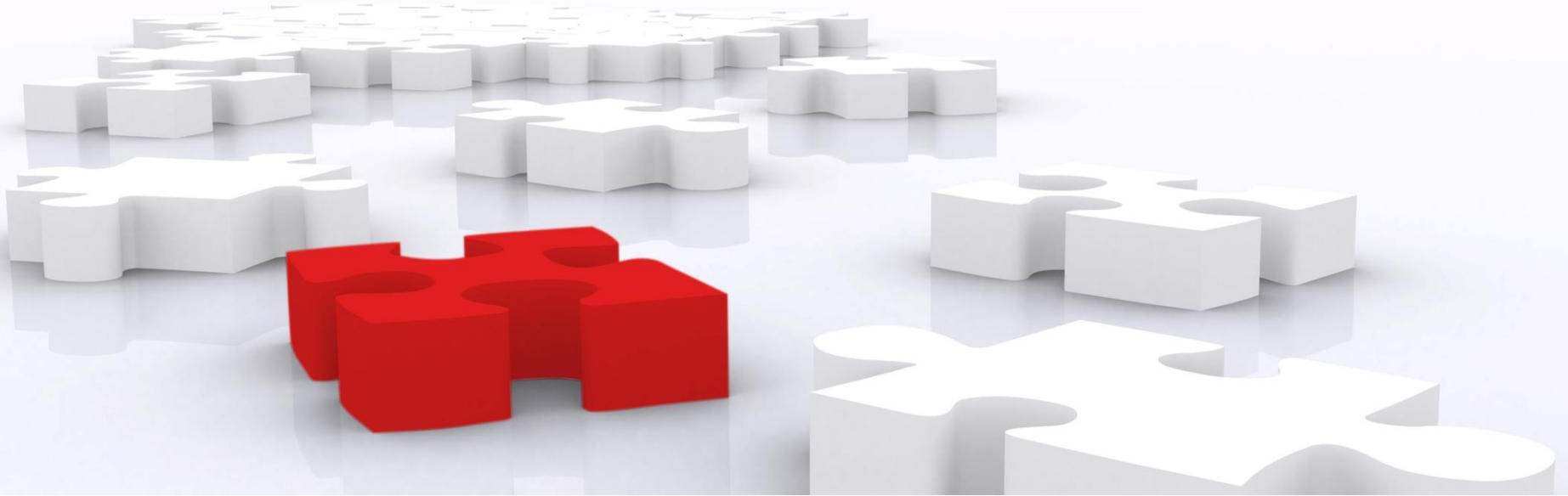


Managing the transition

Legacy Advanced Function Presentation (AFP)
to PDF/UA

John Lynch
Compart North America





Standards

Standards have value

Standards have value

- Accessibility is key
 - For people with disabilities
 - For the most disabled user = machines
- Importance
- Value



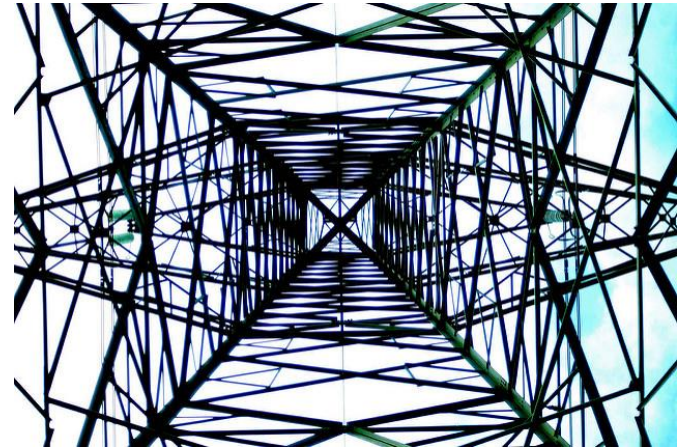
Examples for Standards

- PDF/UA
 - PDF with structure information
 - "Tagged PDF"
- WCAG
Web Content Accessibility Guidelines
- ADA Section 508
 - U.S. Rehabilitation Act
- Many more ...



Our Case

- Origin
 - AFP - Advanced Function Presentation
 - Print optimized
 - Device independent
- Target
 - PDF/UA - PDF/Universal Accessibility
 - Informal name for ISO 14289
 - Document exchange format
 - Logical order of elements





AFP Conversion to PDF/UA

New Standards Enable UA

General Overview

- Founded in 2004 (as AFP Color Consortium)
- Complete and extend the specifications
- 29 members (Sep 2017)
 - Printer vendors
 - Software vendors
- Autumn 2016 consortium meeting results in UA standards
 - Tagging, Indexing, and object order on a page



AFP Consortium
Advanced Function Presentation

Current Environment w/o standards

- AFP streams are currently converted to PDF
- PDF/UA Tagging Requires:
 - Assumptions on the part of the conversion software / process
 - Automated (guess) or manual tagging
 - Assumptions on proper reading order (including table data)



Standardization

- Work with ISO
- AFP/A standard (ISO 18565:2015)
 - Format for archiving
- Implemented in a 2-phased approach
 - Index Method
 - Envelope Method

Future Environment with standards

- AFP streams contain appropriate structures for conversions
- Headings, reading order, alternate text, translations, are included in the specifications
- Conversions are “worry free” as one-to-one U/A features are implemented





Challenges

The Approach to Implement

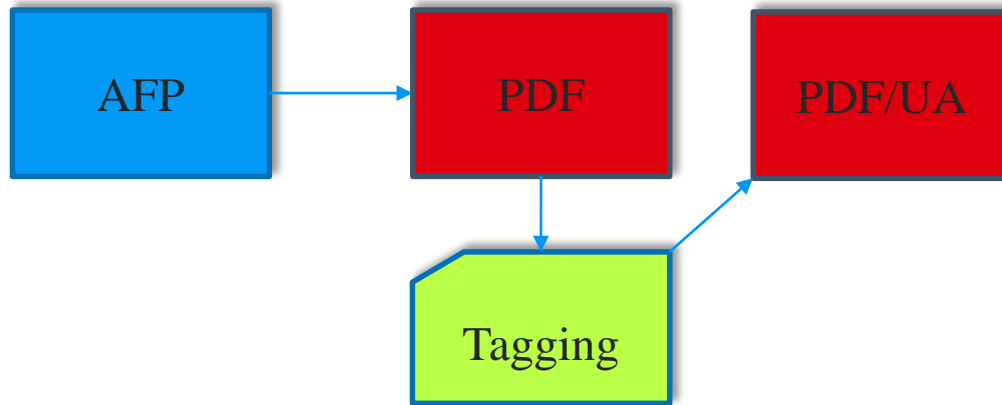
County Served	Broker	Broker telephone number	
		Local	Long distance
Asotin, Garfield, and Whitman	Coast Transportation Colfax, Washington	VOICE: (509) 397-2935 FAX: (509) 397-9229	VOICE and TDD: 1-800-873-9996
Clark, Cowlitz, Klickitat, Skamania, and Wahkiakum	Human Services Council Vancouver, Washington	VOICE: (360) 694-9997 FAX: (360) 694-1446	VOICE and TDD:? 1-800-752-9422
King & Statewide	Hopelink Bellevue, Washington	VOICE: 1-800-923-7433 FAX: (425) 644-9447	VOICE: 1-800-923-7433 TDD: 1-800-246-1646
Island, San Juan, Skagit, and Whatcom	N.W. Regional Council Area Agency on Aging Bellingham, Washington	VOICE: (360) 738-4554 (Whatcom only) TDD: (360) 676-6749* (Whatcom only) FAX: (360) 734-5476	VOICE: 1-800-860-6812 TDD: 1-800-585-6749* *After hours, TDD users should call the relay service at 1-800-833-6388, to leave a message
Clallam, Grays Harbor, Jefferson, Kitsap, Lewis, Mason, Pacific, Pierce, Snohomish, and Thurston	Paratransit Bremerton, Washington	FAX: 360) 377-1528 or (360) 377-6017	VOICE: 1-800-756-5438 ((Mason-North, Kitsap, Clallam, Jefferson) VOICE: 1-800-846-5438 (Grays Harbor, Lewis, Mason-South, Pacific, Thurston) 1-800-925-5438 (Pierce) 1-877-852-2580 (Snohomish) TDD: All Counties 1-800-934-5438

Benton Columbia Franklin Kittitas Walla Walla and Yakima,	People for People Yakima, Washington	VOICE: (509) 248-6793 TDD: (509) 453-1302 FAX: (509) 574-5085	VOICE: 1-800-233-1624 TDD: 1-800-606-1302
Adams Grant Ferry Lincoln Pend Oreille Spokane Stevens	Special Mobility Services Spokane, Washington	VOICE: (509) 534-9760 TDD: (509) 534-8566 FAX: (509) 534-6980	VOICE: 1-800-892-4817 TDD: 1-800-821-7167 FAX: 1-888-829-9915
Chelan, Douglas, and Okanogan	Trancare Wenatchee, Washington	VOICE: (509) 667-2727 FAX: (509) 667-2083	VOICE: 1-800-352-8726

What are The Benefits of AFP/UA?

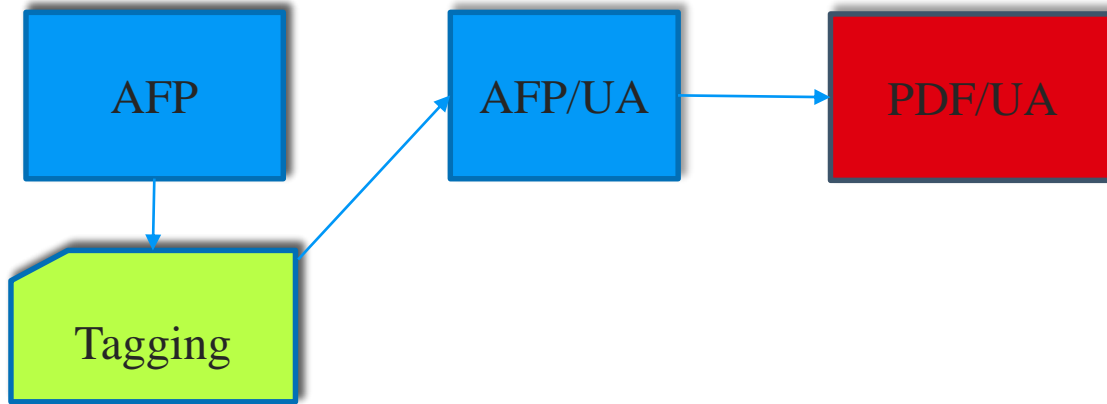
- One stream for production print, archive, retrieval
- Simple transition to PDF/UA
- Built-in objects which are easy to “tag” with UA information

Current AFP to UA Workflow



Adding UA to AFP Workflow

AFP/UA Example



What needs to change on the output side?

- AFP processing must be adapted to accept or bypass new UA structures including:
 - Print servers
 - Modification software
 - Viewers
 - Archive systems





Conclusion

The key for success

- Conduct a business impact analysis
 - What value does AFP/UA bring to your business?
- Study the risks of action / in-action
- Determine if / when rendering engines will accommodate the new standards
- Create a technology adoption and architecture plan
- Continue PDF/UA for digital distribution channel

- PDF Association: <http://www.pdfa.org>
- WCAG: <https://www.w3.org/WAI/intro/wcag/>
- Section 508: <https://www.section508.gov/>
- PDF/UA: <http://www.pdfa.org/2013/06/pdfua-in-a-nutshell/>
- AFP Consortium: <http://www.afpcinc.org/>

Thank You! Any Questions?

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