

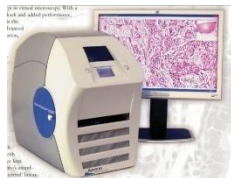


IHE/HL7 Anatomic Pathology

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May 13-18, 2012

Vancouver



Anatomic Pathology Technical Framework

- **Current Technical Framework - Revision 2.0**

July 23, 2010. Copyright © 2010: IHE International, Inc. Trial Implementation

- [Vol. 1 \(PATTF-1\): Integration Profiles](#)

- [Vol. 2 \(PATTF-2\): Transactions](#)

- These volumes provide specification of the following profile:

- [Anatomic Pathology Workflow \(APW\)](#)

- **Supplements for Trial Implementation**

- To be tested at subsequent IHE Connectathons.

- Supplements extend the IHE Anatomic Pathology Technical Framework, Rev. 2.0 for Trial Implementation.

- [Anatomic Pathology Reporting to Public Health \(ARPH\)](#) - Published 2010-07-23

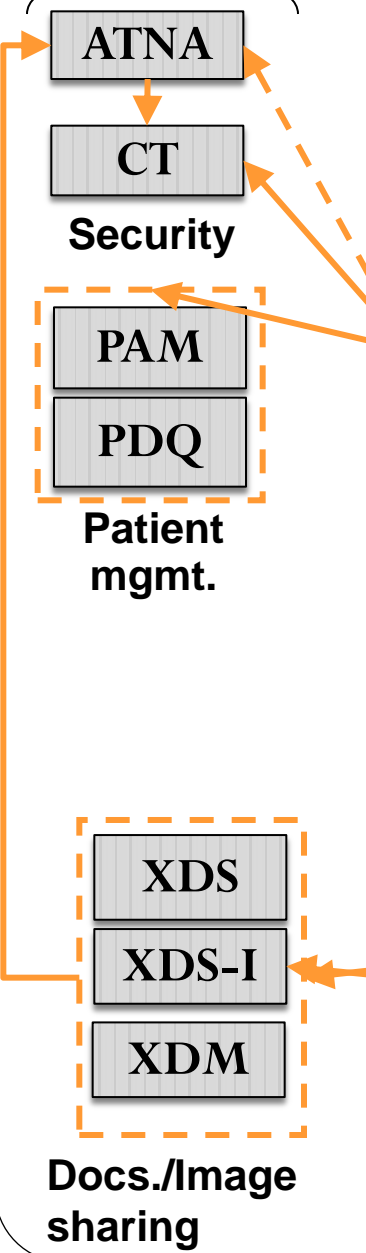
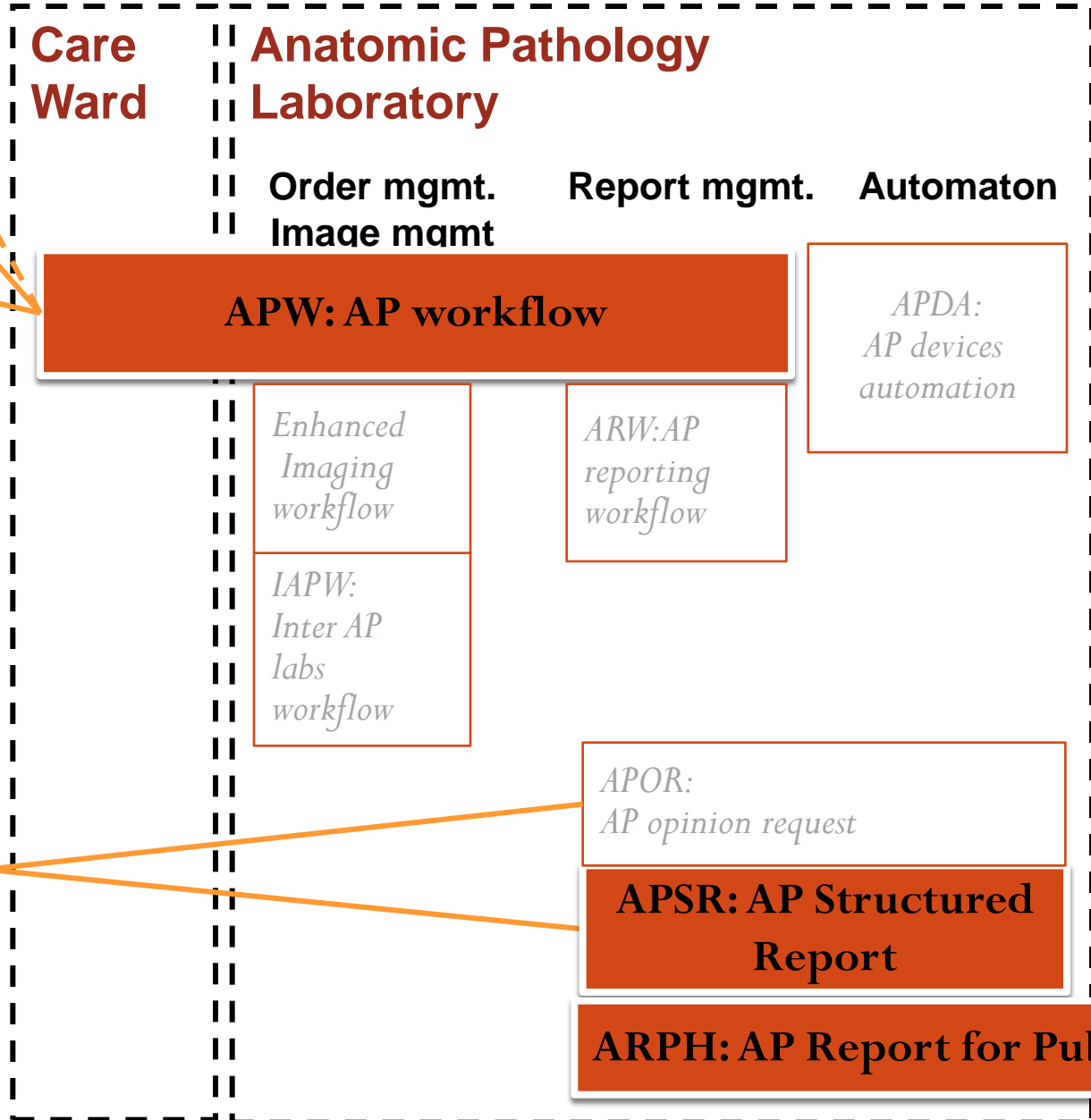
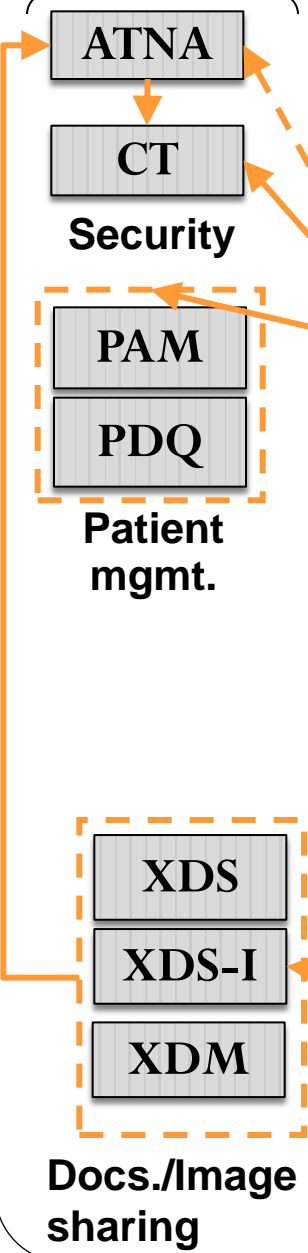
- [Anatomic Pathology Structured Reports \(APSR\)](#) - Published 2011-03-31

- [APSR Value Sets Appendix](#) - Published 2011-03-31

IT Infrastructure profiles

IHE Anatomic Pathology Existing and planned profiles

Healthcare community



2011-12 Activity : Selection of Change proposals/Profiles/White papers

- 2011-12
- **Change proposals**
 - *Content: Anatomic Pathology Structured Reports (APSR) : 10 new profiles*
- Integration Profiles -> 2012-13
 - *Anatomic Pathology Reporting Workflow (APRWF)(G.Rodriguez – Satec)*
- White papers -> 2012-13
 - *Device automation integration profile (with LAB, ITI)*
 - *Inter-departments workflow (with LAB ITI)*
 - *Telepathology (with ITI)*
 - *Opinion request (content and workflow)*
 - *Relationships between pathology / radiology / endoscopy*
 - *Sharing templates / terminology (with ITI)*

Change proposal

New APSR templates

[APSR] – Anatomic Pathology Structured Report

- Joint IHE and HL7 anatomic pathology initiative
- Content profile providing templates for building Anatomic Pathology Structured Reports in all fields of anatomic pathology (cancers, benign neoplasms as well as non-neoplastic conditions)
 - CDA documents including Anatomic Pathology observations bound to images or regions of interest
 - Shared or exchanged within a community of care providers using existing integration profiles defined by IHE Information Technology Infrastructure

Background (templates 2010-11)

From clinical document models...

- Recommendations for required, preferred, and optional elements for any APR of surgical pathology, regardless of report types [Goldsmith 08]
- National initiatives
 - Anatomic Pathology SR (Netherlands, Germany, Australasia)
 - Cancer APSR
 - US - CAP (College of American Pathologists)
 - 67 cancer checklists and protocols (Feb 2011)
 - France - SFP (French society of pathology) – INCa (French National Cancer Institute)
 - Minimum data sets for cancer APSR in 30 locations (more than 85% of new cancers in France) (required by accrediting bodies)
 - Australasia
 - UK Royal college

[APSR] – Anatomic Pathology Structured Report

- Clinical Use Case to implement this profile
 - Sharing/exchanging APSR for surgical pathology
 - 21 CDA templates (Document Content Modules)
 - 20 organ-specific APSR templates
 - Including cancer-specific AP observations
 - Covering the description of more than 85% of incident cancers
 - APSR template for any location & lesion
 - All organs & fields of anatomic pathology (inflammatory, vascular, traumatic, metabolic diseases as well as cancer)
 - 490 observations & procedure templates
 - 21 procedure templates
 - 469 observation templates (including 73 TNM observation templates)

New APSR templates (2011-12)

- National needs
 - France : 7 new templates
 - Corresponding to 10 CAP cancer checklists
- Thematic needs
 - Patient care coordination : harmonization process across domains
 - Observations related to biomarkers need to be harmonized with HL7 Clinical genomics

10 CAP cancer checklists

- Neuroendocrine tumor of the stomach
- Neuroendocrine tumor of the colon and rectum
- Neuroendocrine tumor of the small intestine and ampulla
- Neuroendocrine tumor of the appendix
- Carcinoma of the endocrine pancreas
- Carcinomas of the nasal cavity and paranasal sinuses
- Tumors of the brain/spinal cord
- “Lymphoma”
 - Hodgkin lymphoma
 - Non-hodgkin lymphoma
- “Sarcoma”
 - Tumors of soft tissue

HL7 CDA implementation guide

- 231 new « element » templates
 - PathLex codes for new observations, procedures,
- 142 new Value Sets
 - Providing PathLex codes for concepts in corresponding value sets

National extensions

Differences at the level of the document templates

Examples	US	France
Neuroendocrine tumors	4 templates NET of <ul style="list-style-type: none">- the stomach- the colon and rectum- the small intestine and ampulla- the appendix	1 template Neuroendocrine tumors of digestive tract
Carcinomas of the pharynx	1 template Carcinomas of the pharynx	3 templates Carcinomas of <ul style="list-style-type: none">-the oropharynx- the nasopharynx (biopsy)- the nasopharynx (resection)

National extensions

Other differences

- At the level of the observation templates
 - Harmonisation is possible
- At the level of the value sets
 - Harmonisation is difficult
 - Managing international/national/local value sets

APSR templates

Maintenance (new profiles & versions)

- Issue
 - Proposing new templates
 - New US CAP Cancer checklists
 - Other needs (e.g France INCa-SFP Cancer checklists)
 - Taking into account versions
 - US CAP Cancer checklist versions
 - Other?
- Organizational issues - International governance?
 - Harmonization?
 - US CAP Cancer checklist/ RCPA (Australasia)/UK RCP
- Technical
 - Automation of the process
 - Deriving HL7 CDA implementation guides from eCC
 - Intellectual properties rights?

Significant deployment activities Timeline

Significant Deployment Activity

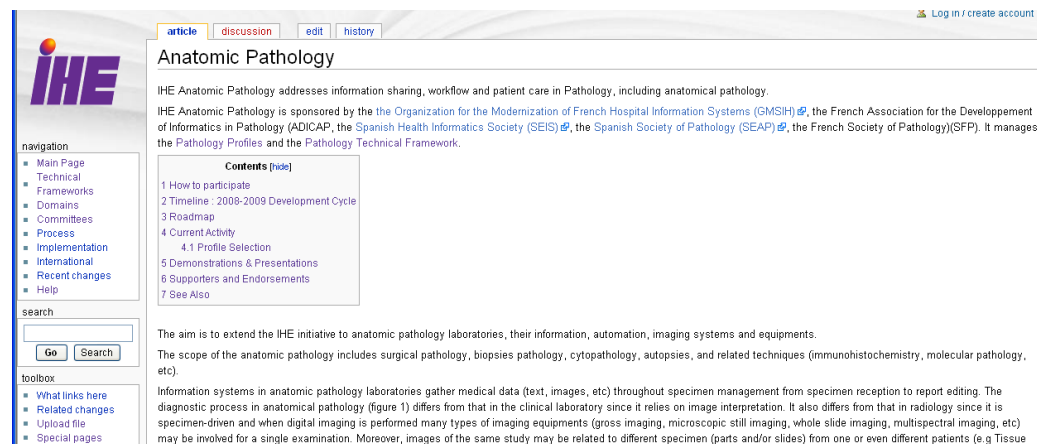
- APW : implemented by vendors in "real world" in Spain (Hospital General de Ciudad Real) and on-going implementation in Paris (AP-HP) (ADICAP, ASIP Santé)
- ARPH: North America (NAACCR, CDC)
 - Successfully tested at 2010 (One sender, one receiver) & 2011 (one sender, same receiver as 2010) NA Connectathon
- APSR : on-going implementation by vendors in "real world" in France (ADICAP, ASIP Santé – INCa). National pEHR project (DMP & DCC project)

Timeline/Milestones

Date	Activity	Location
2011		
Sept 13-15, 2011	Submission of of 2011-12 Profiles/ White papers	IHE AP & HL7 AP - HL7WGW - San Diego
Dec 2011	Selection of 2011-12 Profiles/ White papers	
2012		
Jan 2012		US Connectathon
Jan 16-18, 2012		IHE AP & HL7 AP - HL7WGW - San Antonio
April 2012		European Connectathon
May 13-18, 2012	PC&TC meeting	IHE AP & HL7 AP - HL7WGW – Vancouver
May 31-June 2, 2012	Publication of public comment supplement	IHE AP - Paris
August, 2012	Publication of trial implementation supplement	lhe.net
Sept, 2012	Submission of of 2011-12 Profiles/ White papers	IHE wiki
Sept, 2012 (to be confirmed)	Selection of 2011-12 Profiles/ White papers	IHE AP & HL7 AP - HL7WGW – Cambridge

Learn More about IHE Anatomic Pathology

- Googlegroup : ihe-anatomic-pathology-committee@googlegroups.com
- Wiki
 - [http://wiki.ihe.net/index.php?title=Anatomic Pathology](http://wiki.ihe.net/index.php?title=Anatomic_Pathology)



The screenshot shows the IHE Anatomic Pathology Wiki page. The page title is "Anatomic Pathology". The main content area contains the following text:

IHE Anatomic Pathology addresses information sharing, workflow and patient care in Pathology, including anatomical pathology.

IHE Anatomic Pathology is sponsored by the [Organization for the Modernization of French Hospital Information Systems \(GMSIH\)](#), the [French Association for the Development of Informatics in Pathology \(ADICAP\)](#), the [Spanish Health Informatics Society \(SEIS\)](#), the [Spanish Society of Pathology \(SEAP\)](#), the [French Society of Pathology \(SFP\)](#). It manages the [Pathology Profiles](#) and the [Pathology Technical Framework](#).

Contents (hide)

- 1 How to participate
- 2 Timeline - 2008-2009 Development Cycle
- 3 Roadmap
- 4 Current Activity
 - 4.1 Profile Selection
- 5 Demonstrations & Presentations
- 6 Supporters and Endorsements
- 7 See Also

The aim is to extend the IHE initiative to anatomic pathology laboratories, their information, automation, imaging systems and equipments.

The scope of the anatomic pathology includes surgical pathology, biopsies pathology, cytopathology, autopsies, and related techniques (immunohistochemistry, molecular pathology, etc).

Information systems in anatomic pathology laboratories gather medical data (text, images, etc) throughout specimen management from specimen reception to report editing. The diagnostic process in anatomical pathology (figure 1) differs from that in the clinical laboratory since it relies on image interpretation. It also differs from that in radiology since it is specimen-driven and when digital imaging is performed many types of imaging equipments (gross imaging, microscopic still imaging, whole slide imaging, multispectral imaging, etc) may be involved for a single examination. Moreover, images of the same study may be related to different specimen (parts and/or slides) from one or even different patients (e.g Tissue

The screenshot also shows the IHE logo, navigation menu, search box, and toolbox on the left side of the page.