



Integrating the Healthcare Enterprise

IHE in 2005:

New Domains, New Profiles & New Options

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Integrating the Healthcare Enterprise

- Driving standards-based multi-vendor integration
- Integration Profiles specify the integration problem and the technical details of the solution
 - Vendors implement specific profiles when building products
 - Users request specific profiles when buying products
- Growth continues in 2005
 - increased awareness & acceptance by all stake holders.
 - 8 Domains with 28 Profiles
 - Connectathon Test Events on 3 Continents
 - 200+ products with IHE Profiles released
- A lot of progress since the first profile in Radiology 7 years ago



IHE IT Infrastructure Activities

- Sponsored by HIMSS
- 9 Profiles deployed including:
 - ATNA: Audit Trail & Node Authentication
 - PIX: Patient ID Cross-Referencing
 - XDS: Cross-Enterprise Document Sharing
- New Supplements being finalized (Public Comment June 15 - July 15)
 - Digital Signatures
 - Cross-Enterprise User Authentication
 - Patient Management
 - Notification of Document Availability
- HIMSS 2005
 - Interoperability Showcase
 - Brailer Press Conference



IHE Radiology Activities

- Sponsored by RSNA
- 13 Profiles deployed including:
 - SWF: Scheduled Workflow
 - PDI: Portable Data for Imaging
 - CPI: Consistent Presentation of Images
- New Supplements being published
 - Teaching Files and Clinical Trial Export
 - Radiology Option for ATNA
 - XDS for Imaging (Public Comment June 15-July 15)
- RSNA 2004
 - PDI Demo and User Success Stories
- SCAR 2005
 - IHE Track at SCAR-U
 - Debut of IHE Radiology Users Handbook



IHE Cardiology Activities

- Sponsored by ACC, ESC, GMSIH
- 3 Profiles deployed:
 - CATH: Cardiac Cath Workflow
 - ECHO: Echocardiography Workflow
 - ECG: Retrieve ECG for Display
- New Supplements being published
 - Displayable Reports Profile
 - Cath & Echo Evidence Documents
- ACC 2005
 - First Demo very successful
 - ~1,300 Attendees
- ASE 2005
 - Demo Planned – June 8-15, Boston



IHE Lab Activities

- Sponsored by GMSIH, HPRIM, JAHIS
- 1 Profile deployed
 - LWF: Laboratory Scheduled Workflow
- New Supplements being finalized (Public Comment June 15 – July 15)
 - Laboratory Point of Care
 - Laboratory Device Automation
 - Laboratory Code Set Distribution
 - Laboratory Information Reconciliation



New IHE Domains

- IHE Radiation Oncology
 - Sponsored by AAPM / ASTRO
 - Working on initial profiles
- IHE Patient Care Coordination
 - Sponsored by HIMSS
 - Holding initial committee meetings now
 - First target – “Medical Summary Document Sharing”
- IHE Point of Care Devices
 - Sponsored by ACCE / HIMSS
 - Forming committees
- IHE Eyecare
 - Sponsored by AAO
 - Forming domain



IHE Regions

- New national IHE initiatives; governmental interest
- IHE-North America
 - U.S., Canada
 - Demonstrations at RSNA, HIMSS, ACC
 - Additional Presentations at SCAR, SPIE
- IHE-Europe
 - France, Germany, Italy, UK, Norway, Netherlands, Spain & Denmark
 - Presentations/Demos at ECR, DRK, SIRM, Hospital Expo & UKRC
- IHE-Asia
 - Japan, South Korea, Taiwan & China
 - Demo at JRC



IHE Connectathon

- Massive Cross-vendor Testing
 - One week; dozens of vendors; thousands of tests
 - Opportunity to find/resolve issues
- Participation is Voluntary
 - Litmus test not a pre-requisite or certification
- Engineering event
 - Project Management by Mallinckrodt
 - Pre-Validation Tools (MESA)
 - Defined Test Protocols with Verification



Annual IHE Connectathons

- IHE-North America

- Connectathon in January 2005 (Chicago, IL)
 - 45 Vendors, 110 Systems, 300 Engineers, 22 Profiles

- IHE-Europe

- Connectathon in April 2005 (Noordwijkerhout, Netherlands)
 - 62 Vendors, 98 Systems, 230 Engineers, 23 Profiles

- IHE-Asia

- Connectathon in Feb 2005 (Yokohama, Japan)
 - 30 Vendors, 70 Systems, 8 Profiles



IHE Radiology – Users Handbook

- SCAR 2005 – Debut of first Edition
- “Using IHE” for purchasers, system integrators & users
- Real-world scenarios: acquiring a modality, RIS or PACS
- Selecting IHE Profiles; Making the Business Case
 - Based on goals (e.g. reducing errors; increasing throughput)
 - Identify Profiles that contribute to each goal
 - Find products that support those Profiles
 - Specify Profiles in an RFP
- Installing & Operating IHE Systems
 - Leverage electronic workflows
 - Install & Configure the systems
 - Do Acceptance Testing
 - Interface with non-IHE systems



More Information

- IHE Educational Workshop, June 28-29, Oakbrook IL
- Newly Launched: www.ihe.net
- Technical Documents
 - IHE Technical Frameworks
 - Supplements For Trial Implementation
- Non-Technical Brochures :
 - IHE FAQ and IHE: A Primer
 - IHE Integration Profiles: Guidelines for Buyers
 - IHE Connectathon Results
 - IHE Success Stories
 - IHE Integration Statements from Vendors



RFPs & IHE Integration Statements

- Be Brief?
 - “The system must support DICOM”
- Be Effective?
 - “The system must support the following DICOM services according to the following 100 pages of specifications”
- Be Both:
 - “The system must support IHE Scheduled Workflow as an Acquisition Modality”
- IHE Integration Statements
 - Version 2.1 of the Jupiter 3 CT supports IHE Scheduled Workflow as an Acquisition Modality





Thursday, June 2, 2005

Hot Topic Session

Continuing Education Code:
048