Radiology Image Sharing

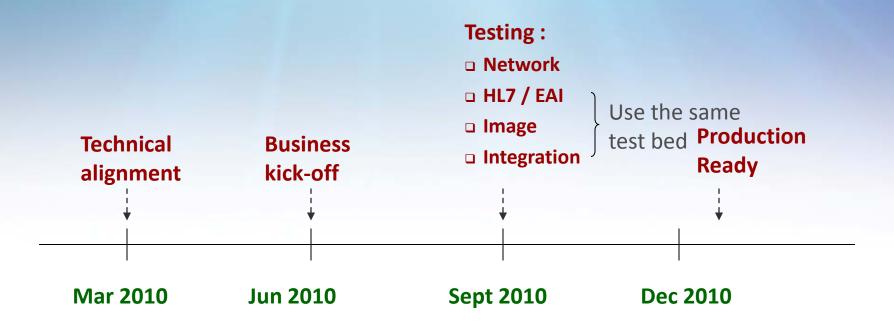
Seminar with private hospitals / radiology facilities

Implementation & Operation

1st September,2010



Project Timeline





Testing

- Technical readiness assessment before testing
- Time Block System for testing of HL7, Image, Integration



Technical Readiness Assessment

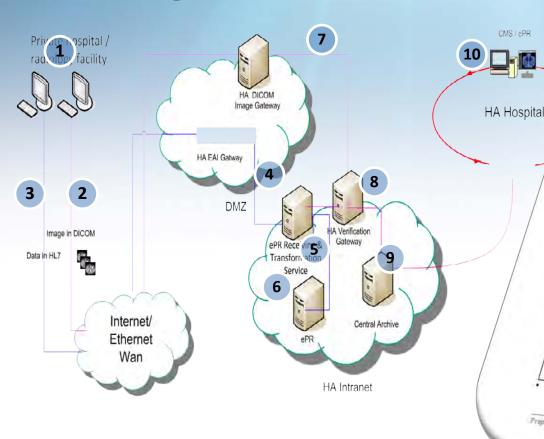
- ☐ Site-to-site IPSec network readiness
- ☐ Able to capture 2D-barcode
- DICOM readiness
 - □ DICOM compliance radiology services (e.g CT 16bit)
- ☐ HL7 Message readiness
 - ■MSH, PID, ORC, OBR, OBX
- ☐ Accession number
- □ PDF requirement fulfilled
- ☐ Exam report required to be sent before image transfer
- ☐ Health check/Alert email account







Testing



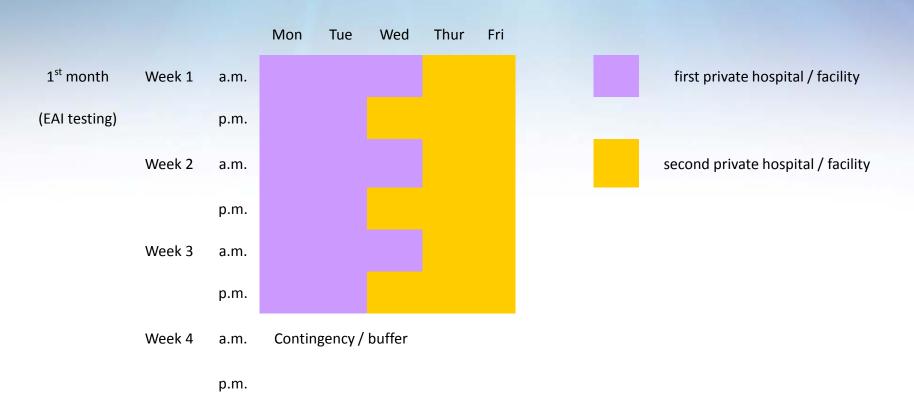
- End to End Integration Feeling Plan for CO-Private January 5.4 Test Case-*5.4.1 Normal Workflow Testing-*5.4.1.1 Sendendorsed report to HA from PRI. INST. Send endorsed report to HA from PRL INST CHAN, AH FOR M2949445 Test Step Sub-step Remark GCR request form (with 2D barcode) is generated with the above patient demographic GCR and is given to PRI INST. PRI INST. receives GCR request form and register the case by scanning the 2D barcode PRI. 0. PRI_INST. sends endorsed report with valid patient demographic via HL7 to EAI HL7 PRI. INST. PRI. Gateway and EAI response with receive response acknowled gement HA EAI Outeway send the HLT with PDF to HA EAI Interface . EAI Interface verify the Patient Identity IS4. EAI Interface convert based64 string to PDF EAI interface send HLT and PDF to EPR 0. EAI process EPR acknowledgement IS4 . 0. Chack PDF indicator [] in ePF. frontend. 154. C54. Launch the PDF and view the report Display the For testing original PDF steps, refer to report. ePR frontend varification. Verify the report content with PRI. INST... CS4, PRI Prepared by SATT
- Multiple parties involvement
- Shared testing environment



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Time Block System





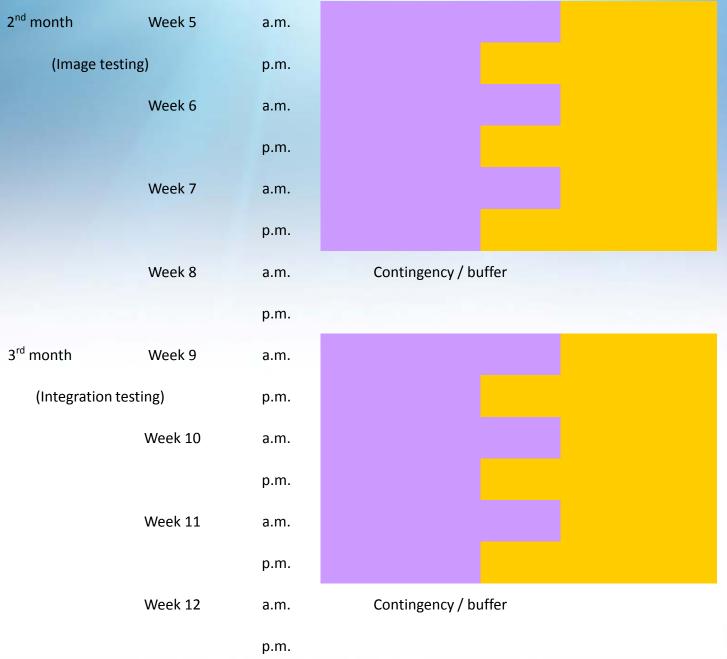






Image Quality Testing







Contact Points from HA

- Overall business
- Overall IT
- Network
- EAI HL7 gateway
- DICOM gateway & Imaging
- Project Coordinator

Implementation & Live

- Production preparation 1 month
- Business & technical readiness
- At beginning of system live
 - Closely monitor for first 4-5 cases
- After this observation period and without any major problem, system will go into normal production support.
- Transmission time from Private to HA: ~30 min



Support

- Daily Health Check (email)
 - List of reports and images sent to HA
- Alert (email) Immediately
 - Exception Handling
 - Example: Patient name mismatched
- Incident/Service Request
 - Service Desk
 - Previous Incidents:
 - Large amount of duplication data sent
 - Non-schedule downtime arrangement



Summary of Implementation and Operation

- Project Timeline
- Readiness Assessments
- Time Block System
- Image Quality Checking
- Live and Support Arrangement



Implementation & Operation





CD Content

- 1. Summary Brochure
- Business Process Diagram (End-to-end workflow)
- 3. Network Specification
- 4. GCRS Barcode Specification
- 5. HL7 Mapping Specification
- 6. PDF Format Specification
- 7. DICOM Image Gateway Conformance Statement



Seminar on Radiology Image Sharing



