

Radiology Image Sharing

Seminar with private hospitals / radiology facilities

1st & 20th September 2010

Radiology Image Sharing

- Interface Pilots

- Purpose :

- Test the connectivity on radiology and laboratory sharing
 - Pave way for EHR

- Current projects :

- Radiology image sharing : private facilities → HA
 - Share laboratory results : Dept of Health → HA

Radiology Image Sharing

- Current Progress

- Project implemented for the following institutions :

- HK Sanatorium Hospital : Jan 2009
- St Teresa's Hospital : Feb 2010

- Facility to commence testing :

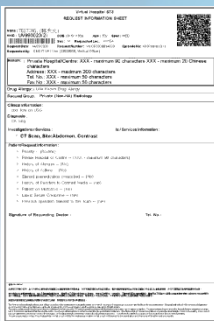
- HK Health Check : Oct 2010
- St Paul's Hospital : Oct 2010



Radiology Image Sharing

HA

Private facility



A detailed computer request form for radiology services, including fields for patient information, referring physician, and specific test requests.



A patient consent form for radiology procedures, detailing the purpose of the exam and the patient's agreement.

Patient consent



Computer request form

IT systems & network



Upon problem



Daily transfer
report



Radiology Image Sharing

- Pre-requisites
 - Standards
 - HL7 version 2.5 XML
 - Embed Radiology Report in pdf
 - Radiology images in DICOM 3.0
 - Network
 - IP Sec VPN
 - Ability to register
 - Using 2-D barcode

XML sample

```
<PATIENT>  
<HKID> M7664082</HKID>  
<ENAME>YU, LONGAN</ENAME>  
<SEX>M</SEX>  
<DOB>20/04/1961</DOB>  
<EDOB>Y</EDOB>  
<CASENUM> HN060000132</CASENUM>  
<ORNUM>VH OR061001123X</ORNUM>  
<DUMMY></DUMMY>  
</PATIENT>
```



Radiology Image Sharing

- Pre-requisites (continued)

- Patient Identification

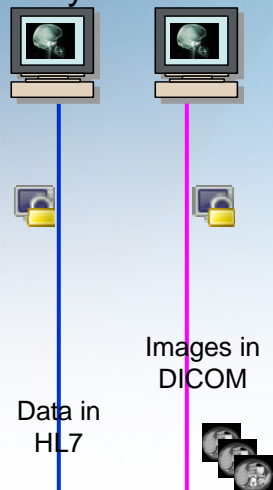
- HKID
 - Name in English
 - Sex
 - Date of Birth

- Image Identification

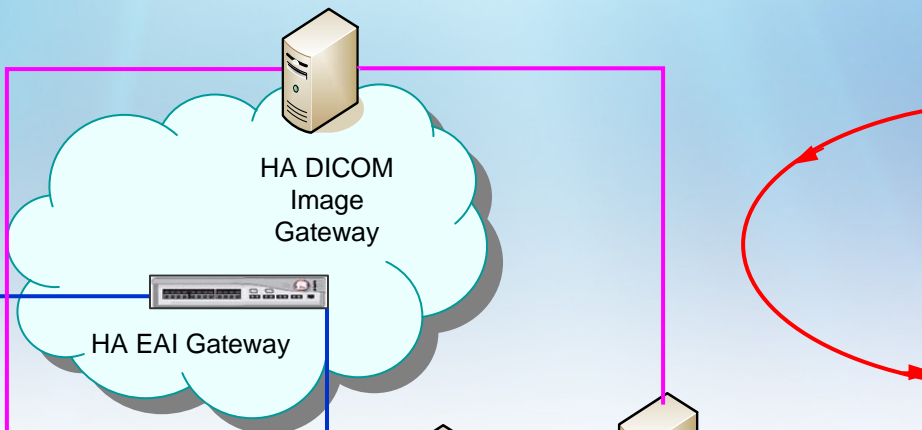
- Accession number

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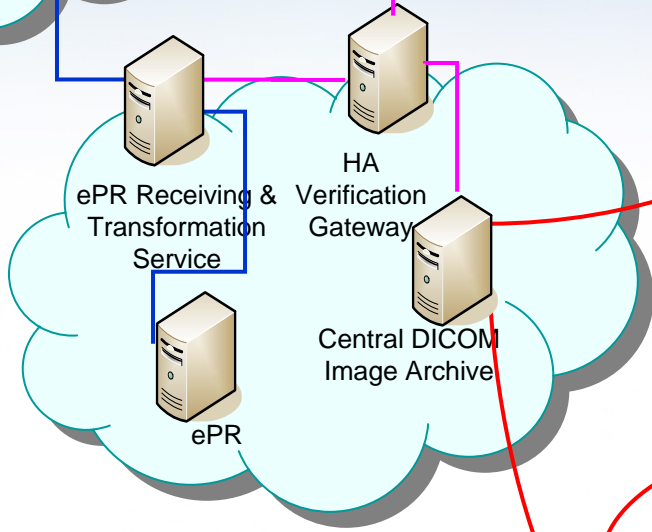
Private hospital / radiology facility



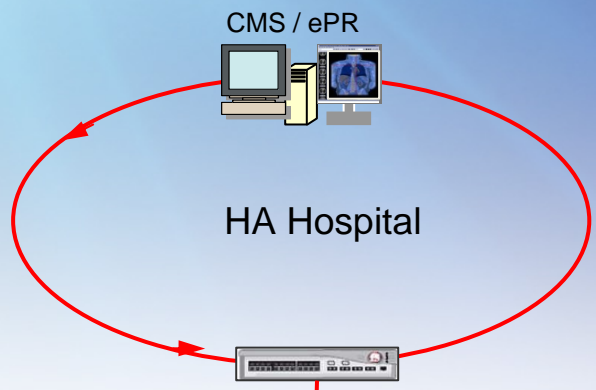
Internet / Ethernet WAN



DMZ

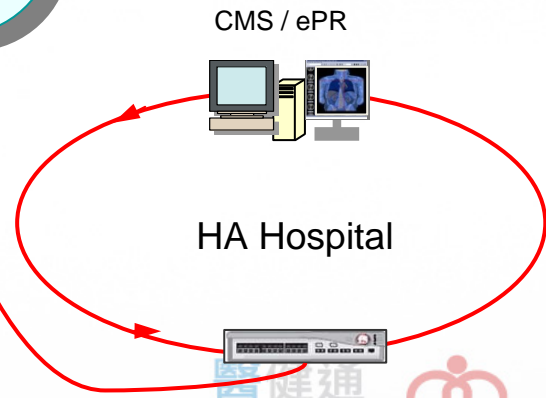


HA Intranet



CMS / ePR

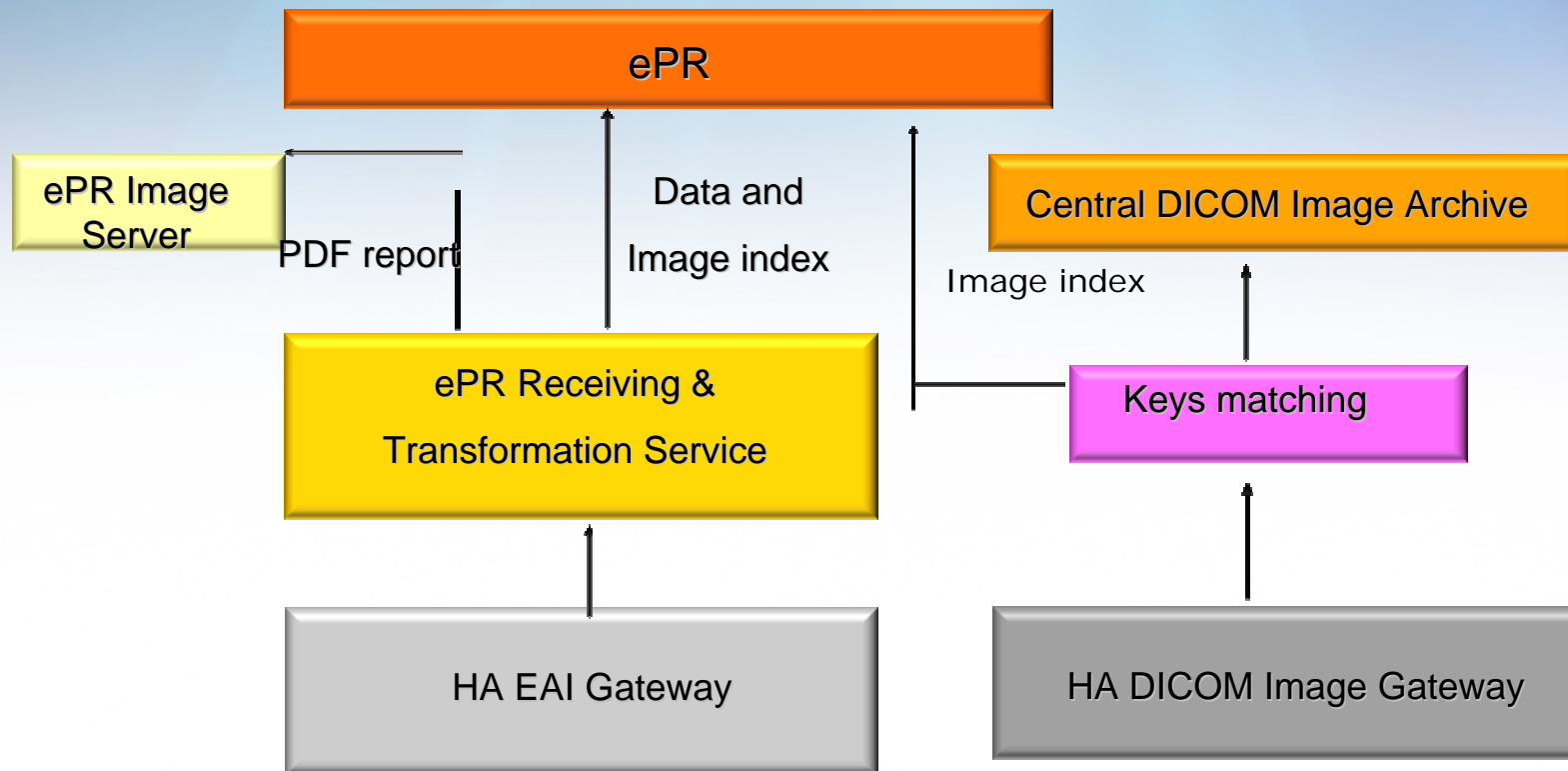
HA Hospital



CMS / ePR

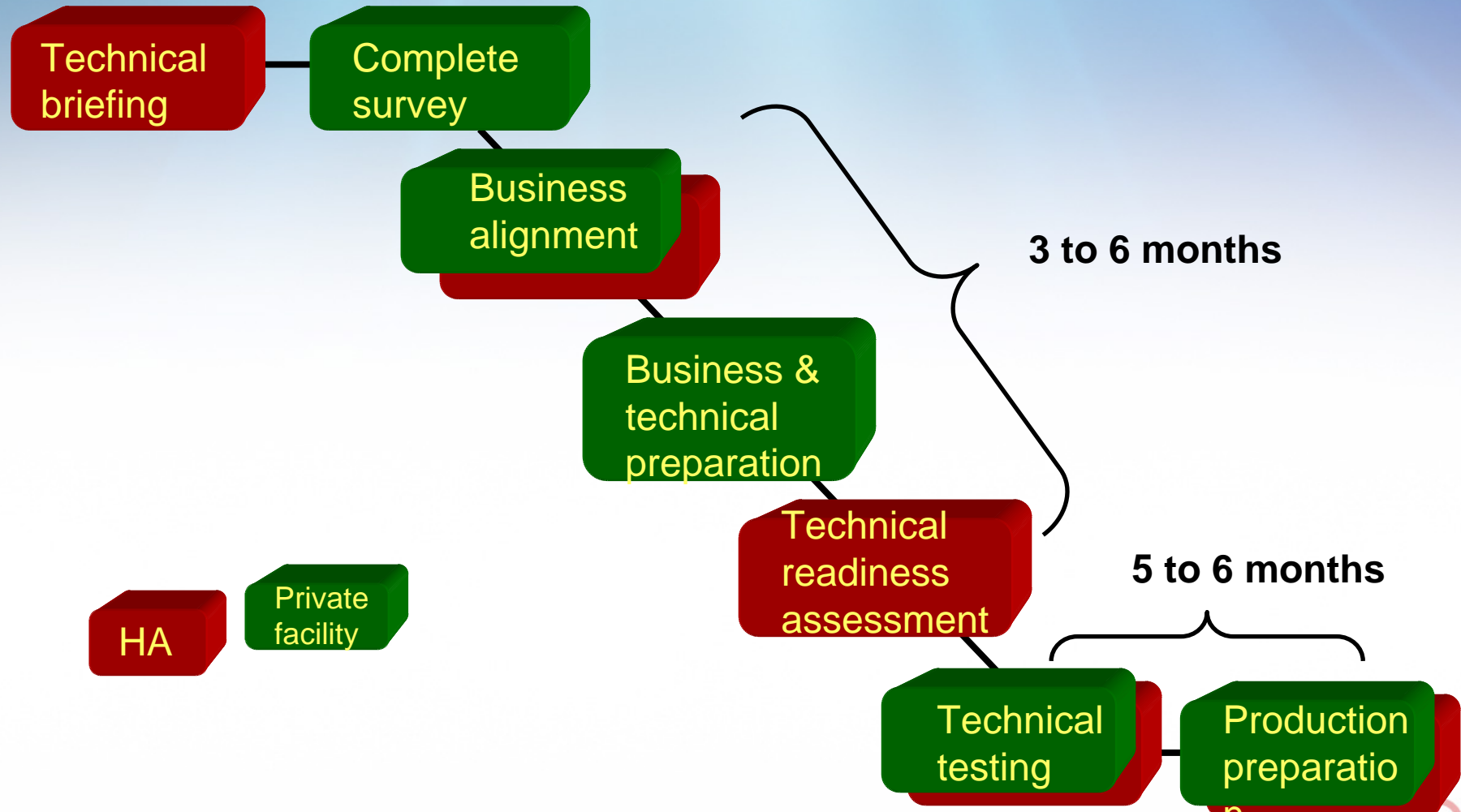
HA Hospital

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- What's next



THE END
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