



Image and Report Sharing

An LSP Dimension

Chris Whitton

Clinical Lead - Radiology, BT

October 10th 2008

BT Health

Content

- BT and the National Programme for IT
- Strategic sharing
- Interim data sharing
- Progress with Interim data sharing
- Sharing issues and challenges
- Questions

BT and The National Programme for IT

- Historically: BT has been a supplier of telephony to the NHS and other healthcare organisations.
- Today: BT is a supplier to the National Programme for IT (NPfIT).
- The vision: BT to become a world-class health supplier.

BT and The National Programme for IT

BT has three contracts for the National Programme for IT:

- N3
- The London Local Service Provider (LSP) including PACS
- Spine

BT manages these and other health programmes under the umbrella of BT Health, a subset of BT Global Services.

BT Strategic Sharing

The Future



Strategic sharing options

- Local networks/stores utilising teleradiology solutions
- XDS-I
- Expand Interim sharing (PACS Exchange) nationally
- Expand other LSP Interim sharing solutions nationally
- Enterprise PACS!

BT Strategic Sharing vision

- Federated rather than enterprise
- Standards based – non obsolescence
- IHE framework – market forces
- COTS – existing proven
- Low risk, clinical and commercial
- Vendor agnostic
- XDS-I – multi-vendor endorsement

Interim Sharing

What BT are delivering now



Why Interim Sharing

- Clinical needs ahead of available technologies
- Data security needs
- Time lag for strategic product development
- CD management and security
- **Solution available now**

Why PACS Exchange

- Balance of clinical, security and IG requirements i.e. clinical access v IG.
- Flexibility to address wide range of clinical sharing practices.
- Compatible with current CD sharing policies and protocols but without encryption issues.
- Based on known, familiar and proven technologies.
- Common GUI and standards.
- Minimised user training.

Interim PACS Sharing

- Data Centric single access point for image sharing.
- Only images that are required to be shared are **sent** to the PACS Sharing Service.
- The Trust have complete control and audit of export process.
- PACS Administrator controls what is imported.
- Images and **reports** can be viewed quickly using a PACS sharing web client.
- Fully encrypted and secure transport mechanism of PID.
- A user level audit will be provided, detailing access to a shared exam owned by the Trust.
- Synchronised user account and role administration.

PACS Sharing: Basic Workflow

Write:

- Select exam (and reports) and 'send' to PACS Sharing using any local PACS workstation.

Notify:

- Implement internal sharing process (complies with Trust IG policy).
- Manually notify recipient of the exam ID on PACS Sharing for review, and any clinical information to support the referral.

Review:

- Log onto PACS Sharing Web.
- Search and view using IDS5 web client on local PC as usual.

Retrieve:

- Log onto dedicated PACS Sharing workstation (PACS Guardian).
- Select exam (only) and 'Send' to own PACS (standard workflow).
- Reconcile with RIS order (standard CD import work flow).

Sharing folder - Emergency Transfer

- Available to all Acute Trusts in London.
- Supports out-of-hours and emergency workflow:
 - § Any authorised PACS user can push exams to PACS Sharing from any PACS workstation.
 - § Any authorised PACS user can view images and reports on any Trust PC.
- To limit IG risk, images remain in Emergency Folder for 18 hours.
- A PACS Guardian can push exams to their own local PACS if required.

Sharing folder - Elective Transfer

- Folder access is restricted to members of elective sharing group.
- Authorised PACS users can send exams to their own group from a PACS workstation.
- Only members of the group can view images and reports in their group folder.
- Examinations available for 8 days.
- PACS Guardians can push exams from Elective Folder to their local PACS.

PACS Exchange Progress

- Technical go-live complete.
- Mayday: clinical performance testing.
- Royal Marsden: clinical performance testing.
- Clinical Sharing expected to start next week.
- Many sites signed up to deployment plan.

Sharing challenges and considerations

- Images should be available for fast viewing.
- User choice whether to import.
- Simple access, user account synchronisation.
- Encryption i.e. VPN.
- User level audit.
- Selected exams only to be shared.
- Report sharing dynamic to ensure currency.
- Preparation, preparation, preparation (understand the processes).

Communication processes between all entities need to be clearly understood, defined and agreed to prevent chaos.



"Didn't you get my e-mail?"

Questions





Bringing it all together