ePostRx™ Platform Considerations

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This document is offered as a basic guide from which to begin designing an appropriate hardware/software environment in support of using the ePostRx™ pharmacy system and related components. It is based on experience drawn from existing ePostRx™ client installations, and the current ANS internal environment.

The references below are all MINIMUM requirements based on a dispensing volume of 5K scripts/day.

Specific hardware/software models mentioned are for a "like" or similarity reference. They are not aimed at encouraging our partners to purchase these specific models, but examples currently in use at other client sites.

HARDWARE:

All hardware is the responsibility of the client. ANS does not sell or support hardware.

Application Server:

- Dedicated to support a single ePostRx application and underlying JBOSS platform
  - 80-100 active user load per server / varies to # of active sessions and user role/actions
- VM application servers are acceptable and in wide client use today
- Xeon (3.8GHZ) CPU
  - Consider an increase based on planned active user load per server
- 16GB RAM
  - Single most valuable resource towards performance
  - Could get by with 8GB, but memory is cheap for the visibly enhanced performance.
- 200GB Hard drive
  - Assumes that application and JBOSS logs will be stored off-server, or that they will be archived/deleted on a regularly scheduled basis.

Database Server:

- Running SQL server 2008R2.
  - SQL 2005 is no longer supported
  - SQL 2012 support is not yet available, but is planned.
- Supporting inclusion as participant in HA environment
- Can support up to four non-production (DEV, TEST, QA, etc.) stacks of the database instances required by ePostRx.
  - ePostRx – primary ePost database
  - jboss
  - medispan
  - quartz
  - medfacts
- Production should have its own dedicated SQL server
  - Production DB servers are recommend to be physical servers vs. VMs.

- Xeon(3.0GHz) Quad Core
    - or Xeon (3.8GHZ) / Dual Core
- 24GB RAM
- 500-600GB allocated to SQL server
    - 10K RPM or better
    - Starting capacity allowance is based on three years migrated data and two years active processing
- Considerations towards increase
    - SQL log file location- it is recommended that SQL log files be placed on physically separate drives from the MDF
    - Image (prescriptions, etc.) storage- with the DB as BLOBs or physical files
    - Backup storage
    - Replication
    - Report Server access
- WinServ03/08 R2 Enterprise Editionx64 SP2

Note that ePostRx™ is an "n-tier" enterprise application designed to scale linearly by adding more servers.

SOFTWARE:

Operating System:

- Recommend Windows Server 2003/2008 64bit
    - ePostRx™ runs on any platform that supports JVM (Java Virtual Machine) such as Windows, Solaris, Linux etc.
        - Current partners run almost exclusively under Windows OS.

Java Virtual Machine (JVM):

- JDK1.5.22 (64 bit). Currently Sun JDK - supplied by ANSHealth.

Application server:

- JBOSS version 5.0 Supplied by ANSHealth.

Web Server:

- Tomcat 5.0 (JSP compilation only). Supplied by ANSHealth.

RDBMS:

- MS-SQL 2008+ Enterprise 64 bit. Client is responsible for JDBC drivers, service wrappers, and any related licensing.

INPUT/OUTPUT:

User Interface (Browser):

- IE 7+ or Mozilla 3.57+
- Google Chrome is not currently supported.
- Browser interface is required on the desktop.
- Scanning personnel need ActiveX security enabled using IE.

IVR:

- ATEB, VoiceTech v5.0, or other custom IVR solution.

Fax Server:

- The default interface is any fax server that accepts email and PDF image attachment.
- ANS also currently supports FairFax and Right Fax interfaces.

Client-side Printing:

- Adobe Acrobat Reader v8.0 is required for silent browser printing.
    - Version 9.0+ doesn't support silent printing, and generates user prompts on the server.

Rx Label Printers:

- Zebra S4M (larger model); Zebra TLP2844. Typical stock size is 2x3 inch or 2x4 inch. This can be optionally customized.

Data Entry Label Printers:

- Dymo Label Writer 400 Turbo.
- 8 ½" by 11" laser printers for full page prints of data entry labels can also be used.

Image Scanners:

- Any TWAIN compliant scanner.

Barcode scanners:

- MetroLogic supports Code39 and Code128.
- Keyboard wedge only!
- No serial port interface support.