OSEHRA INNOVATION WEBINAR SERIES

Today's Presentation:
Open Source JDBC Access to VistA FileMan Data

Thank you for joining.

This presentation will begin shortly.

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Welcome to the OSEHRA Innovation Webinar

Open Source JDBC Access to VistA FileMan Data

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Open Source FileMan/VistA SQL Access

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Approaches

- BMXNet
- FM Projection (Medsphere)
- Octo/PIP

BMXNet

- Written as a ADO.Net component that is usable in any .Net project (should be cross platform via .NETCore/Mono)
- Allows read-only access to many files
- Programatic/Custom program access only (aka can't use off-the-shelf report writers/SQL Tools)

FM Projection

- A storage plugin to MySQL to allow FileMan files to appear as SQL tables
- Code base is rather old and doesn't compile on MariaDB (Modern MySQL fork)
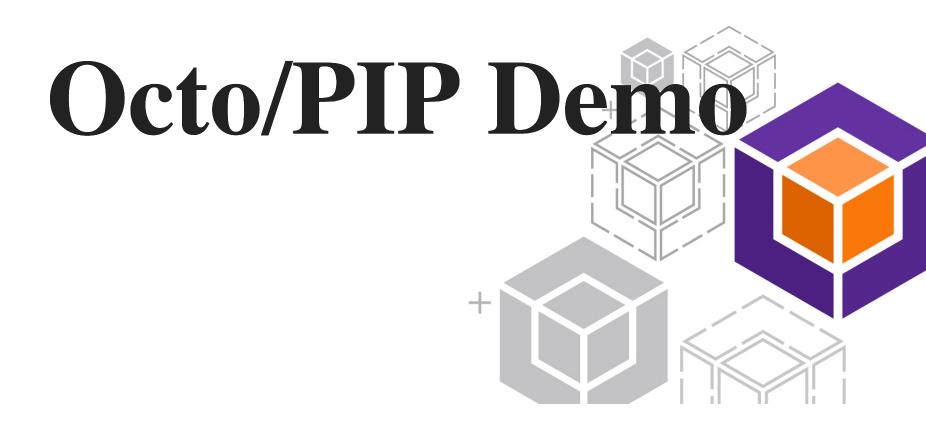- Reports of slow performance

Octo/PIP

- PIP was released in 2008 with beta packaging, but essentially the core of the system
- Battle tested SQL support due to Profile Banking System functionality
- Also includes Profile Scripting Language (PSL) as an Object Oriented M(UMPS) Language
- Database managment system is referred to as DATA-QWIK
- Octo is PIP with fixes and enhancements by the YottaDB community

Plan of Action

- Octo/PIP has been the focus to get to a prototype quickly (though experimented with other approaches)
  - Completely Open Source
  - Good SQL support
  - Mostly M(UMPS) (There are C call-in and C call-out programs that are used)
  - Good data mapping tools
  - Generic framework - Think beyond VistA/FileMan

Octo/PIP Demo

Accessing DATA-QWIK

- D ^SCADRV
- /home/vehu/pip/drv
- Terminal support: (XTERM with PuTTY)
  - F11 - escape
  - Shift+F6 - menu
  - End - drop-down table

Mapping Data

- File Definition
- Create File Definition
  - Global Name
  - Primary Keys (Subscripts)
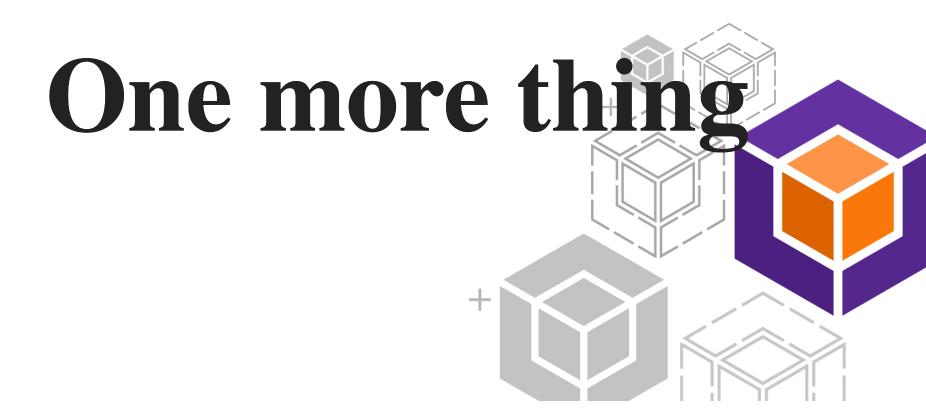 - Delimiter ($C(94))
  - Record Type 10

Automated VistA Mapping Tool

- Manually mapping is slow, prone to errors
- Automated mapping is fast and can be error checked
- Automated tests written
- Basic support for SubFiles/Word-Processing fields
- Source code is Open Source and available on GitLab

Where to get it?

- Source code is Open Source and available on GitLab: https://gitlab.com/YottaDB/Octo/YDBPIP
- Docker container for ease of development/getting started
- Base Octo container available on DockerHub: https://hub.docker.com/r/yottadb/octo/
- VistA-Octo integrated container available on DockerHub: https://hub.docker.com/r/yottadb/octo-vehu/

One more thing

Eclipse Plugin

- Can create Octo objects without accessing terminal
- Multiple perspectives: one for DBA, one for Programmer
- Project is available on GitLab
  - Though it is expert friendly and no directions so far - please contribute

Browser IDE

- View/modify PSL
- Web SQL Client
- Project is available on GitLab
  - Though it is expert friendly and no directions so far - please contribute

Questions/Comments

YottaDB

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Thank you!
Questions?

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