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Agenda

Business Challenges

Solution Components

Demo

Solution architecture

Conclusions
Business Challenges

• Well data is used across numerous system but there is not a consistent means of identifying wells

• Wells with a company working interest need to be used in both financial and technical systems

• Different systems have different attribute values for the same well (of differing quality)

• Some systems distinguish between a well and well bore – others don’t

• Many regions don’t have a definitive source for wells
Business units located in 10+ sites – varying network capabilities

(not real locations)
Solution Components

1. Identify and index key source data stores
2. Match to existing wells in master
3. Assign existing or new unique id (UID)
4. Create “blended” record based on source precedence
5. Apply quality rules to blended record and save to staging
6. Promote to well master
7. Propagate new/updated wells to subscribers
Live Demo

( assigning UIDs and blending)
**High Level Solution Architecture – Web applications**

**html5 web apps**

Search
Match & Assign UIDs
Blend Records, review quality and save to staging
Promote to master
Create subscribers to master

**REST web services**

OpenSpirit Runtime

OpenWorks Studio, PPDM, other...

Patterns matching engine

Index of source systems and master Staging db

Run scheduled task to keep index up to date

Matching quality blending save uids

Save to staging

Promote to master

Create subscribers to master

Patterns matching engine

Basemaps Operational layers
High Level Solution Architecture – Data transfer

OpenSpirit Connect
JMS Publisher
OW reader (or other...)

EMS Server
Persist messages until receipt confirmed

OpenSpirit Runtime

Global master

Well master

OpenSpirit Connect
JMS Subscriber
Studio Writer
EDM Writer (or other...)

EMS Server

Region

OpenSpirit Runtime

Regional working projects
Conclusions

Providing rule based tools (matching, blending, quality) to data managers eases the task of mastering data and ensures consistency.

Automatically propagating validated data keeps data consistent across systems without human effort (or errors).

Working with indexed data provides much better user experience for data managers and allows a number of differing rules to be explored.

By using a messaging based solution unreliable network issues may be overcome.