

PI AF 2.1 and PI MDB Upgrade

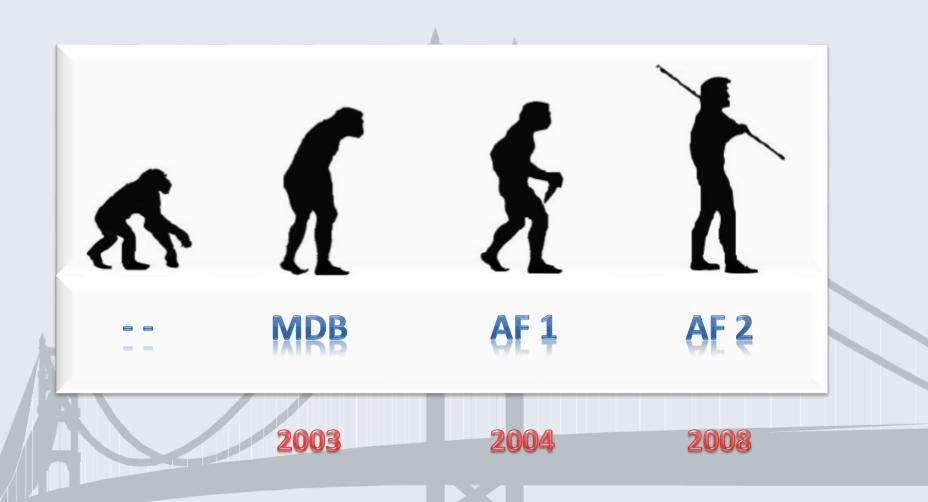
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Empowering Business in Real Time
PI Infrastructure for the Enterprise

Overview

- What is AF 2?
- AF 2.1 enhancements
- Motivation for MDB to AF upgrade
- Upgrade Procedure
- Demo
- Roadmap

AF 2 is a mature product

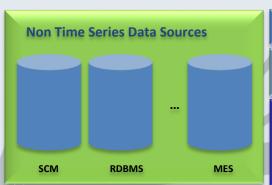


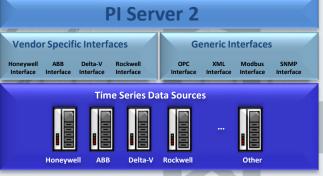
AF 2 in the PI System

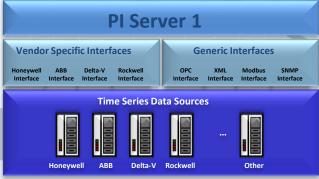
- Structures/organizes the data by asset
- Spans multiple PI Systems
- Incorporates non time series data



Asset/Equipment centric access to information







New with AF 2.1 – 'Big ticket items'

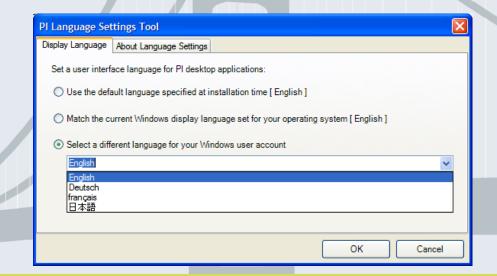
- High Availability
 - Very similar to HA for the PI Server
 - Automatic Failover for clients
 - SQL replication for the AF database
- Notifications support
 - New Notifications template object

New with AF 2.1 – 'Big ticket items'

64 bits support

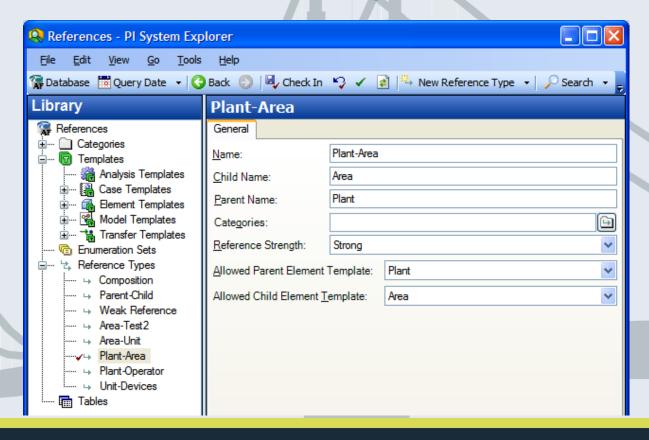


Localization support



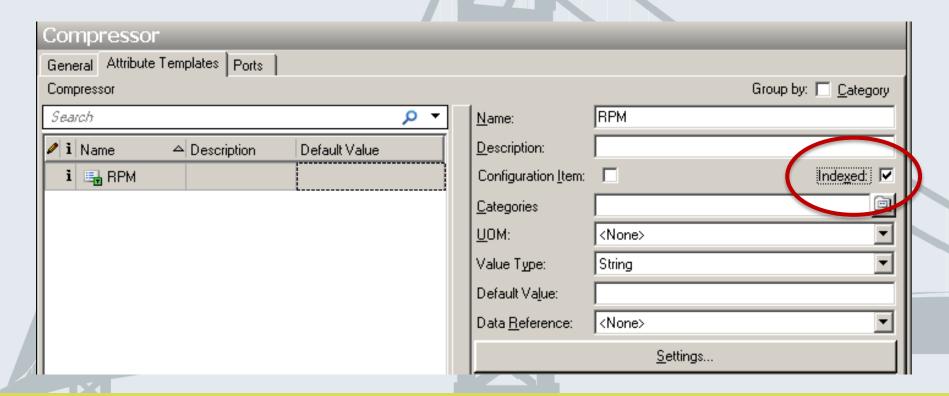
Value Now: Named References Types

- Enforce specific relationship between templates
- Guide user when creating structures



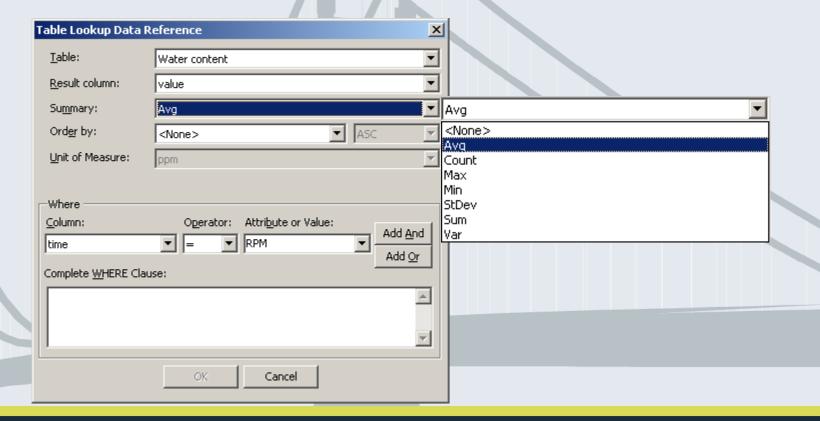
Value Now: Indexed attributes

- Up to 5 attributes per element
- Speed up the searches



Value Now: New Table Lookup

- Interpolate/extrapolate values
- Calculate summaries



Value Now: others enhancements

- Performance improvements
 - Loading objects, check-in changes
- AF Tables Refresh
- XML Import/Export command line tool
 - Support editing and deleting
- More support for PI Points DR
 - Bulk create tags
 - Summaries trending in PB
 - Data Quality Flags

Motivation for MDB to AF upgrade

Move you forward

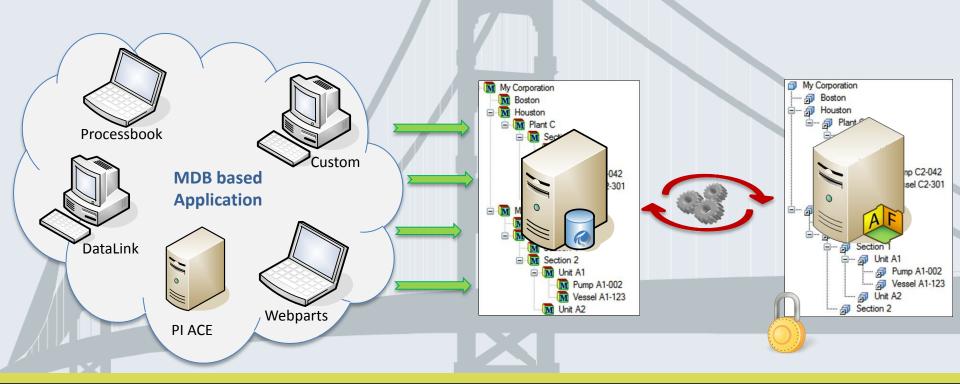
- AF 2 is the future for PI applications
- AF 2 is richer, more scalable and more flexible

Protect your investments

- No customer left behind policy
 - MDB based solutions keep working
- Gradual upgrade process from MDB to AF
 - The back-end first, and then the applications

Overview of MDB to AF upgrade

- Migrate & Synchronize
- AF 2 is the master record



PI Server 3.5: MDB to AF Upgrade

- Requires AF Server 2.x
- Server Upgrade only from 3.4.380
 - MDB uses PI security
 - AF uses Windows security
 - 3.4.380 supports Windows security

Two Step Process

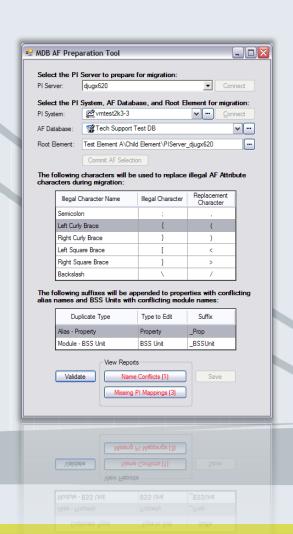
1. Prepare for PI Server upgrade

2. Upgrade PI Server

Step 1: Prepare For Upgrade

Upgrade Preparation Tool:

- 1. Select Target AF Database
- 2. Review Security Configuration
- 3. Review Migration Conflicts
- 4. Save Choices
 - Schedule the PI Server Upgrade

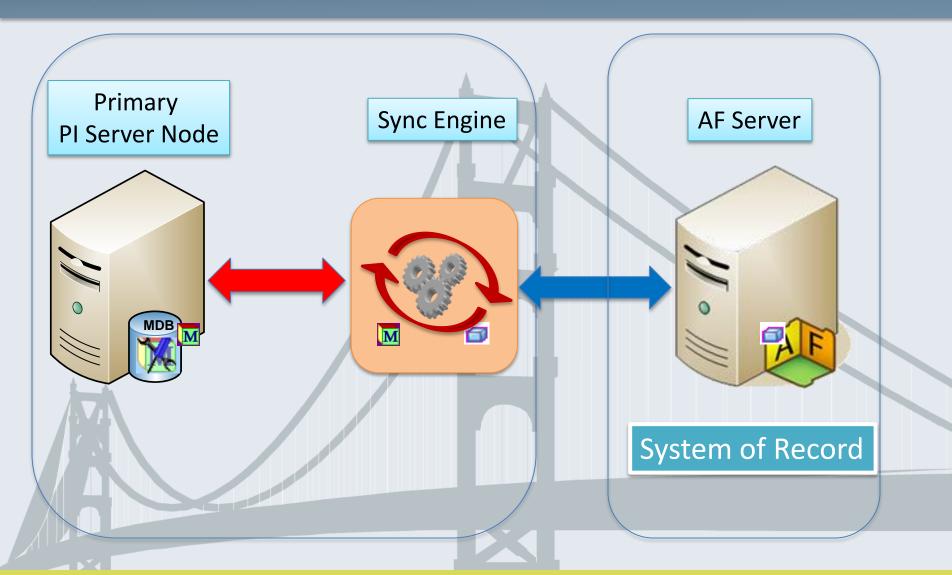


Step 2: Upgrade Pl Server

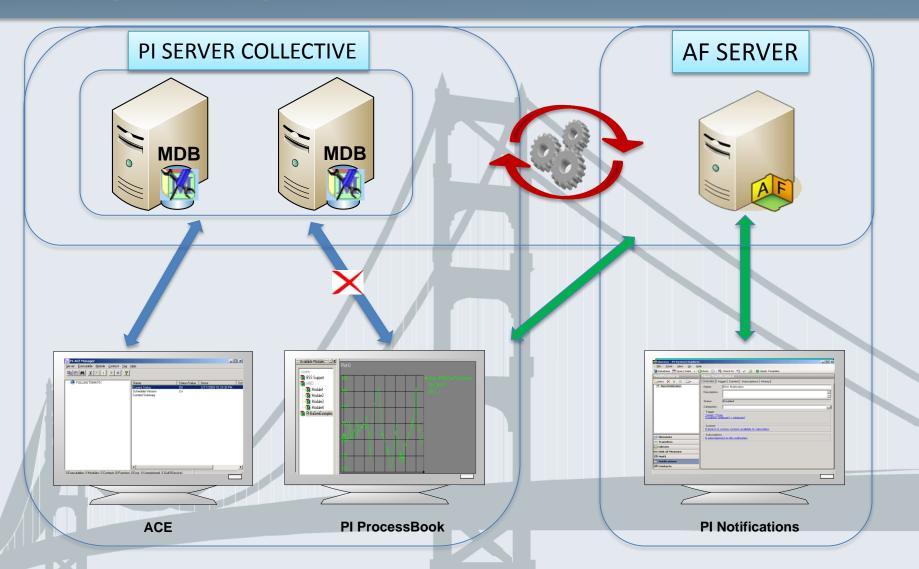
- 1. Run the installation kit
 - If PI Server Collective, run on the primary node

- 2. Start the PI Server
 - Migration starts automatically
 - PI Server is available, except MDB is read only
 - Progress can be monitored

Synchronization



Upgrading Clients



PI Batch Data

PI Batch data stays on the PI Server

All PI Batch clients work as usual

All PI Batch units will be migrated

Performance of MDB Clients

- One time migration of MDB to AF
 - Quick and non-disruptive to operations

- No impact on reading from MDB
 - -AF access not required for reading MDB

- Slight impact on writing to MDB
 - -AF access required for editing MDB

Demo

Also visit PI Server or AF Server Pod



Quick Roadmap

- MDB to AF: PI Server EAM 3.5.xx
 - Release Candidate for mid-June 2009
- AF 2.1
 - Release Candidate for end of April 2009
- AF 2.2
 - Targeted for Q1 2010
 - Native support in clients tools (PB, DL & Webparts)
 - Advanced searching capabilities
 - Support for AF Analysis