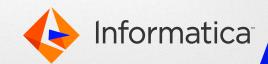
MDM Workflow Management Using Active VOS



Housekeeping Tips









- Today's Webinar is scheduled for 1 hour
- > The session will include a webcast and then your questions will be answered live at the end of the presentation
- > All dial-in participants will be muted to enable the speakers to present without interruption
- > Questions can be submitted to "All Panelists" via the Q&A option and we will respond at the end of the presentation
- The webinar is being recorded and will be available to view on our INFASupport YouTube channel and Success Portal.
 The link will be emailed as well.
- Please take time to complete the post-webinar survey and provide your feedback and suggestions for upcoming topics.



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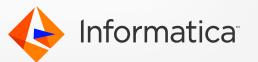
Agenda

- ActiveVOS Overview
- MDM and ActiveVOS Setup Basics
- MDM and ActiveVOS Task Flows
- MDM and ActiveVOS Task Configuration
- MDM and ActiveVOS Task Management
- Demo
- Best Practices
- ActiveVOS Key Tables
- Resources
- Q&A



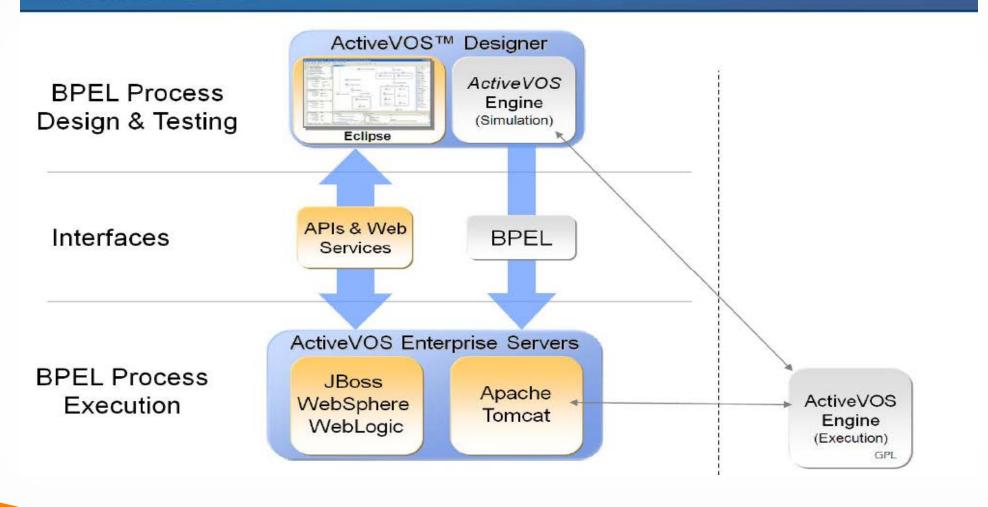
ActiveVOS Overview

- ActiveVOS is a BPM tool based on BPEL.
 - What is BPM Business Process Management
 - What is BPEL Business Process Execution Language (write and deploy)
 - Process models to Integrate people, processes, and systems.
- MDM Use Case
 - Entity Onboarding or Edit Review, Merge or Unmerge Review and Hierarchy Review
 - Tightly integrated with Informatica MDM 10 onwards
- ActiveVOS Designer (based on Eclipse) can be used to create custom workflows e.g. adding email services etc.
- Standalone instance of ActiveVOS can be used as well.



ActiveVOS Overview

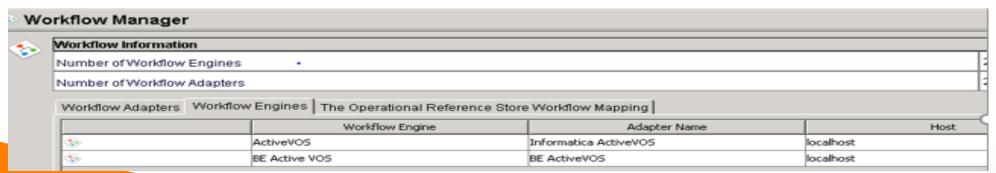
ActiveVOS

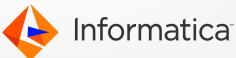




MDM and ActiveVOS - Workflow Engines

- BE ActiveVOS Engine Can also be used with SA screen and not only BE.
 - For both SA and BE Engine, Business Entity generation is needed for the workflows.
 - New Tasks can only be created on Primary Workflow Engine
- OOTB workflows available as part of Installation, as a BPR file
 - Merge, Unmerge, Hierarchy, OneStep, TwoStep and UpdatewithOptional Approvals
- ActiveVOS Designer license available separately for workflow Customization

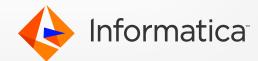




MDM and ActiveVOS – User/Role Setup

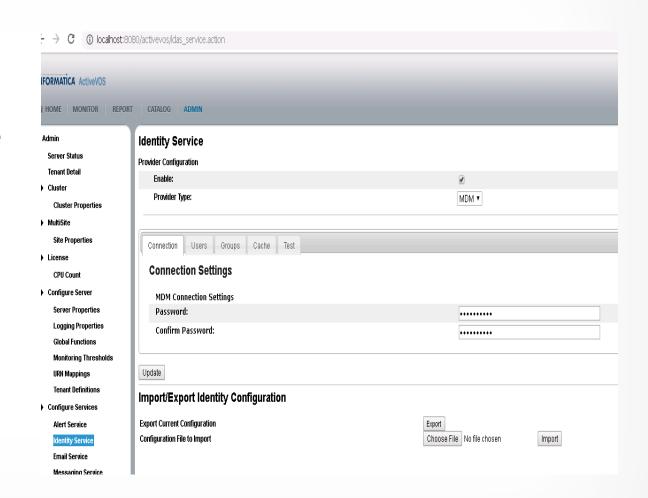
- ActiveVOS No OOTB Admin user abAdmin Role
- ActiveVOS uses Container based authentication
- MDM Identity Service for authorization of Human Tasks
- Potential Owners defines User access to Tasks
- MDM 10.4 defines 3 types of users for Tasks
 - Business, Administration and Hybrid
 - Admin Task Admin role defined in Provisioning
 - Admin users cannot perform Task Actions
 - Admin users cannot access Task Data





MDM and ActiveVOS – Identity Service

- Identity services is responsible for authorization of users.
- With MDM 10.2+, MDM is the only identity service provider.
- Installer registers the MDM Admin user password in Identity Service
- MDM Admin user is used for authenticating ActiveVOS communication to MDM.
- With LDAP, it is recommended to use MDM Identity Service as the Authorization Provider.

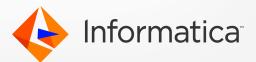




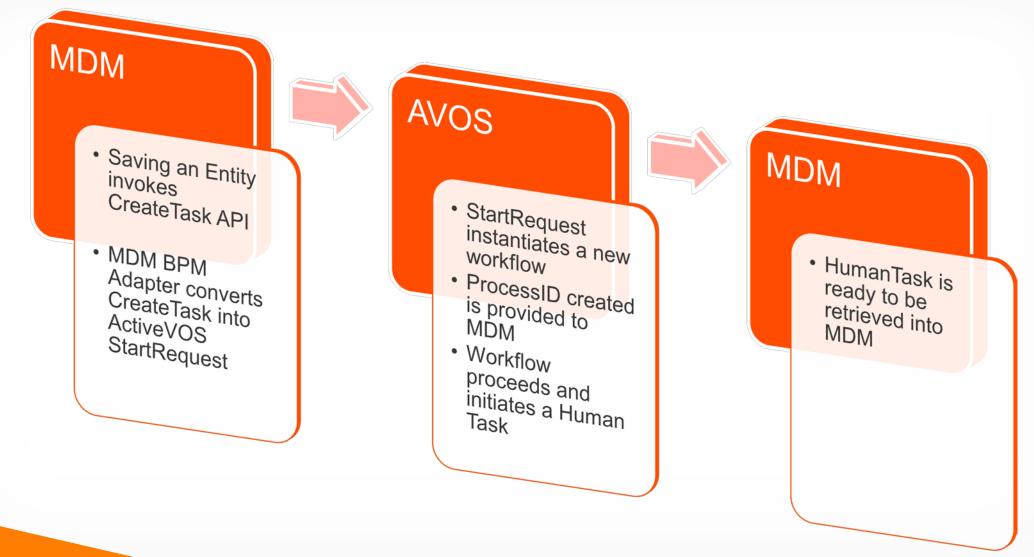
MDM and ActiveVOS- URN Mapping

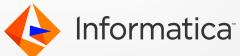
- URN Universal Resource Name is used instead of URLs
- Allows for portability of code between environments
- URN can be used for Partner Services, Databases, API URLs etc.
- Sample workflows use URN to connect back to MDM for API calls like PromotePending etc.
- Post Install should registers localhost URN



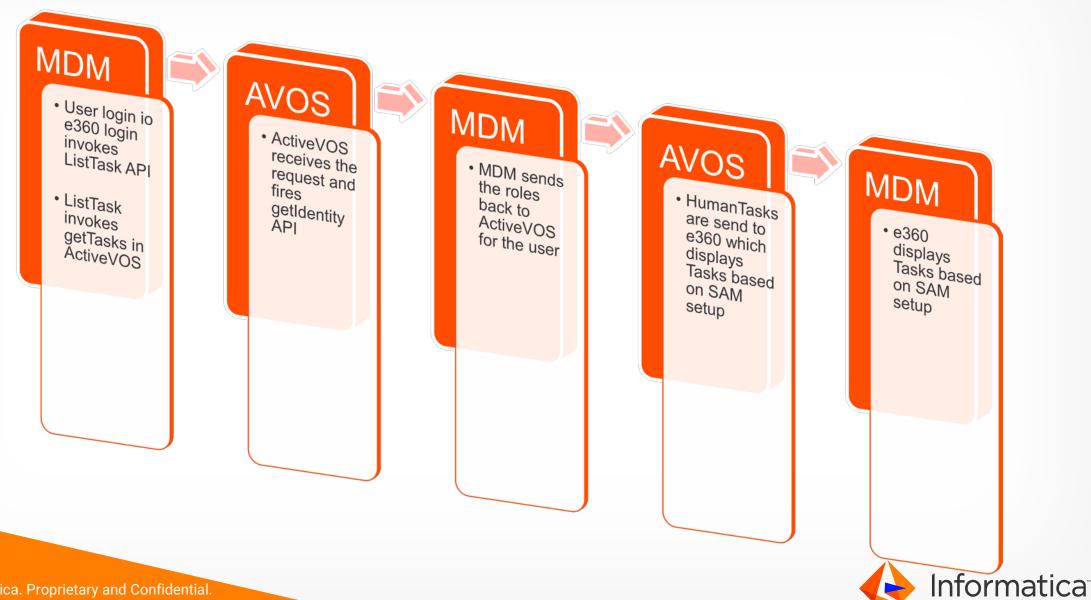


MDM and ActiveVOS - Create Task Flow



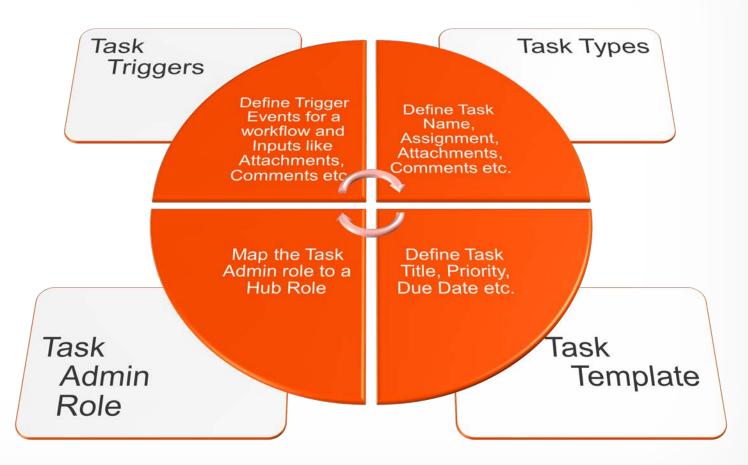


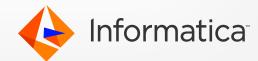
MDM and ActiveVOS – List Task Flow



MDM and ActiveVOS - Task Configuration

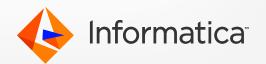
- Always Baseline the Configuration with Provisioning Guide or MDM Sample C_REPOS_CO_CS table before Customization.
- Assign Roles and Business Entities to the Task Types
- Define Task Manager Configuration to define list of columns in Task Manager for the ORS



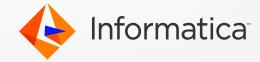


MDM and ActiveVOS - Task Management

- Task Manager Features:
 - Act on Multiple Task in One interaction
 - Perform a common action on them
 - Perform individual actions on them
- Task Operations:
 - Create, List and Read (Read all presentation parameters)
 - Claim and Disclaim (by Owner only)
 - Release (any Business Admin) and Assign (potentialowners and Task Admin)
 - Edit and Task Action
 - Bulk Claim, Release, Assign, Edit and Action
- URL for Task Management APIs http(s)://host:port/cmx/task/operations/OrisId

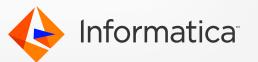


DEMO



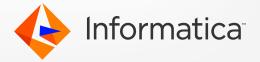
Best Practices - Installation and Upgrade

- ActiveVOS Server does not allow in-place upgrade.
- Third Party BPM Engines, Siperian and Subject Area adaptors are no longer supported in MDM.
- Primary and Secondary workflow engine allow you to keep existing tasks.
 - Task Migration Steps are available in IDD Migration Guide 10.4
 - Recommended to recreate existing Tasks on BEActiveVOS
- ActiveVOS works in a clustered environment, simple HA is not recommended for ActiveVOS
 - Use localhost to register ActiveVOS to save network costs
 - Use Sticky Session for ActiveVOS Load Balancer URL
- ActiveVOS cluster verification –Console -> Admin -> Cluster -> ALL ActiveVOS nodes should be RUNNING
- Use ActiveVOS Import/Export utility to migrate Server configuration



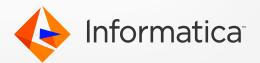
Best Practices - Implementation

- MDM Orphan Tasks Inherent to the System due to Transitive Matching, User Merges and Async Soft-Deletes
 - Solution overview BPR based utility executes Terminate API, based on a Customized database view.
- RoleNames in MDM should not have whitespaces
- Use URN mappings for endpoints / Don't hardcode endpoints
- Tasks needs to be claimed before taking action from 10.3 onwards
- Best Practice Guide for Custom Workflows available in resources



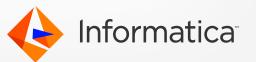
Best Practices - Performance

- Active Task Count Optimum number of Tasks is 50-70K. Beyond that number, please throttle using custom logic or cmxserver.properties.
 - Task.creation.maximum and task.creation.batch.size in cmxserver.properties controls the number of Merge **Tasks**
- AeProcessLogData and AeVariable Tables are high growth tables
 - Keep only running processes in ActiveVOS. Use maintenance option in ActiveVOS console to get rid of faulted/completed task.
 - Keep verbose logging off to maximize ActiveVOS performance
 - Increasing process logging causes performance issue



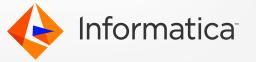
Best Practices - Customization

- Task Metadata cannot be modified after the Task ID has been created.
 - When Approval Task is rejected and recreated, Similar Task is created with a new ID.
 - PotentialOwners of a running Task cannot be changed as well.
- Do not directly update ActiveVOS Metadata to reflect changes in Task data
- Fields displayed in Task manager are based on presentation parameters defined in the MDM APIs
 - Custom presentation parameters added in Workflows will not be displayed in Task Manager
- Process Deletion Do NOT DELETE FROM DB, at least when the application is running
 - Recommend to use Terminate API instead



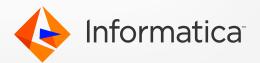
ActiveVOS important tables

- AeProcess Store individual process level details.
- AeProcessLogData Logs all process related data, prone to exponential growth
- AeVariable Stores process variable data, prone to exponential growth
- AeSystemLog Captures all system related changes. Same can be seen in ActiveVOS console under monitor tab.
- Aeb4ptask Store Human task details.
- Aeb4ptaskpa Relationship between TaskID and ProcessID
- AeMetaInfo ActiveVOS version details



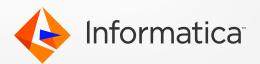
Resources

- Custom workflow development Validation Checklist, contact MDM GCS
- Setting up ActiveVOS Designer https://network.informatica.com/videos/3280
- Workflow Health Report BPR, contact MDM GCS
- Support Videos Informatica Network
- How-To Documentation Informatica Network
- Knowledge Base Informatica Network

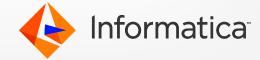


Resources – Active VOS related videos

- 10.4 Task Administrator
 - https://www.youtube.com/watch?v=c9-Oquaj4jk
- 10.4 Task Management _
 - https://www.youtube.com/watch?v=NCj9GEf6kFk
- How to debug integration issue between IDD and ActiveVOS
 - https://www.youtube.com/watch?v=LWwyMwEBP5o&t=7s







Thank

