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MDM – The many ways to consume Master data

Jothi Venkatesan

Principal Customer Success Technologist

jvenkatesan@informatica.com



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.



Feature Rich Success Portal



Bootstrap trial and POC Customers



Enriched Customer Onboarding experience



Product Learning Paths and Weekly Expert Sessions



Informatica Concierge with Chatbot integrations



Tailored training and content recommendations



More Information



Success Portal

Communities & Support

https://success.informatica.com https://network.informatica.com

Documentation

https://docs.informatica.com

University

https://www.informatica.com/in/servic es-and-training/informaticauniversity.html



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Agenda

Overview

Why is this critical?

2 Recommended Approach
What does Informatica recommend?

Informatica
Platform

Informatica
Products/Solutions

MDM Technical Perspective

Batch, RealTime, UI

5 Demo

Interact with BES

6 Conclusion

Q&A



Intended Audience

- Why this Topic?
 - Based on the fact that some MDM customers are not aware of the different options available to them
 to consume mastered data
- MDM Project Sponsors
- Business Users
- Technical Users
- Data Stewards
- MDM Architects
- MDM Developers
- New and Existing Business, Technical users of MDM





Can you easily answer these questions?

How are we measuring the current quality of data across our Enterprise?

How has my MDM project helped me improve the quality of data?

What are my returns because of improved data quality?

How are we Governing/Managing our Enterprise-wide data?

What does great data look like for our business strategy?

Are we enriching our data to get better business decisions and recommendations?

Are we protecting and using our data to comply with privacy regulations?

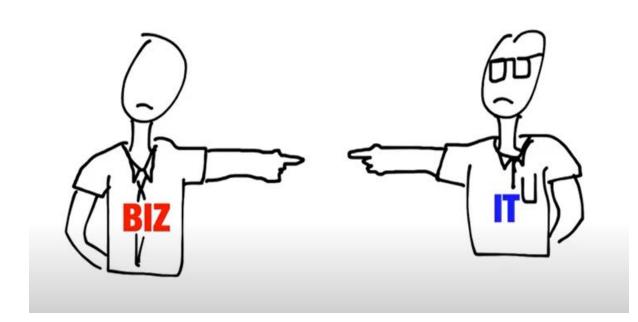
Do we understand our customers' preferences and concerns?

How are we measuring risk? Who in our organization may be able to solve our data challenges?

If not, you would benefit from this Webinar!

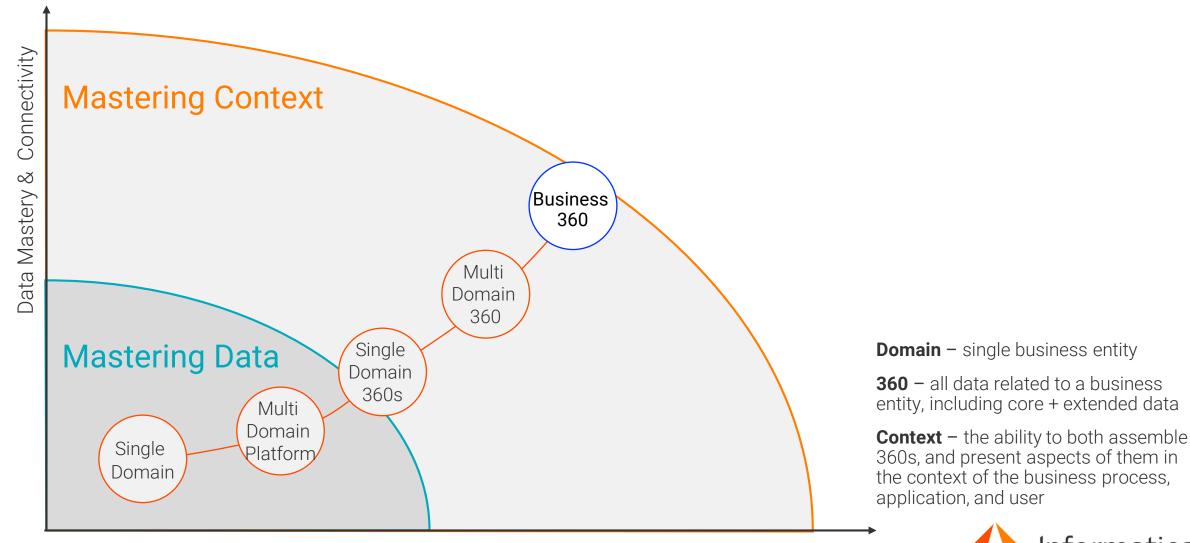


Perspective – Sound Familiar?





Master Data Evolves to Master Context for Business

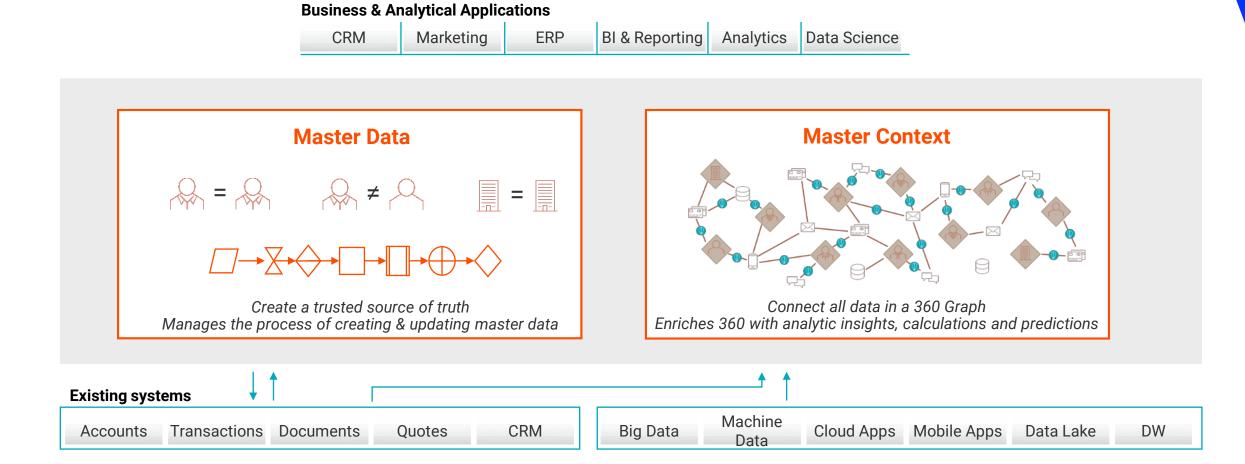


The Concept of a 360

'Customer 360 / MDM Journey'
means having a complete view of
any entity – individual or
organization – and varies by
industry and company



MDM solution must master data and create a context





Key Challenges in Master Data Efforts









Product/Solution Fitment Poorly Defined Scope

- Not knowing what to expect
- No roadmap or initiative outline
- Lack of business input & involvement

- Major customization during implementation and operation
- Flawed or delayed business outcomes

Boiling The Ocean

- Trying to achieve everything in the initial phase
- Lack of technical expertise and incorrect focus
- Loss of business confidence

Lack of Data Governance

- The greatest impact on success is having a common understanding of data & policies
- Delays user adoption and increases time to market
- Biggest hindrance for collaboration





MDM is Foundational to Digital Transformation

Strategic initiatives rely heavily on a 360-degree, single version of truth

MDM solution helps you realize rapid success

Build it right first time, modifying 360 model is expensive

Begin with manageable data sources containing reliable data

Focus on "high benefit-low effort" use cases for a single domain first

Build business-centric initial solution to support Go-To-Market strategy



Best Practices and Engagement Recommendations

Active Data Governance Policies and procedures must be formalized **Architectural Consistency Rear View Check** Architecture must be reviewed Keep checking the benefits from one against standard best practices phase to next. across enterprise 360 Journey -**Best Practices Active Vendor Support** Think Big, Start Small Get insight into upcoming, features Adopt a phased approach and make avoiding customizations. MDM a program. **Continuous Collaboration Eye-on-the-Target** Business operations & key Avoid scope creep into the MDM / stakeholders to be involved Business 360 Program. throughout the program.



Starting 360 Journey - Approach

Create Plan and **Actionable Roadmap**

- Step 1
- **Build a Vision**
- Based on business plan and strategies
- This helps with assessment of business willingness to change and collaborate

- Assess existing capabilities and gaps
- Define roadmap based on business priorities and dependencies

Step 2





Step 3



Choose Right Product / Solution

- Correct 360 product / solution can help in achieving business goals faster
- This is the key step to accelerate business outcomes

Build Foundation

- Showcase product capabilities so that business understands the value faster
- Align 360 vision to tangible business benefits



Step 5



Step 4



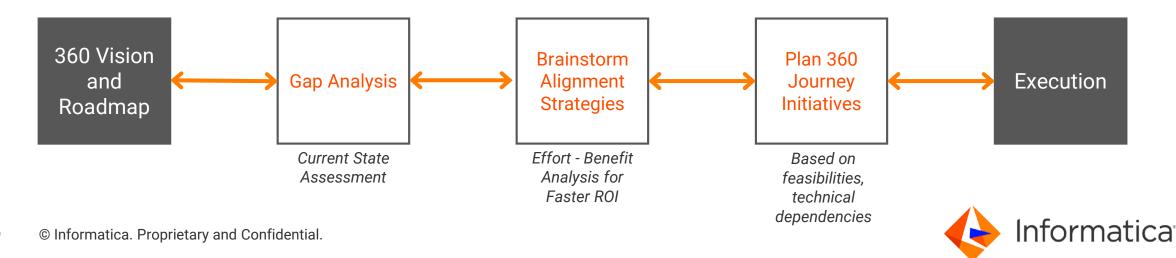
Adopt and **Expand**

- Expand on top of foundation based on importance
- Focus on business adoption through enablement





Initiative Planning and Strategy



Velocity Guideline for Implementation

Analyze

Architect & Design

Activities

- Gather High-Level Requirements
- Perform Data Assessment
- Define Preliminary Solution Architecture
- Specify Detailed Requirements
- Analyze Data Stewardship

Deliverables

- Data Quality Audit
- Requirements Specification
- Requirements Traceability Matrix

Activities

- Finalize Solution Architecture
- Design Physical Data Model
- Design Technical Solution
- Design Business Rules
- Design Policies and Procedures

Deliverables

- Technical Solution Architecture
- Technical Design Specification
- · User Interface Requirements and Design

Build & Test

Activities

- · Setup Dev. Environment
- Build MDM Hub
- · Build Hierarchies
- Build Interfaces
- Plan and Prepare Test
- Perform System Testing
- Perform Volume/Performance Testing
- Perform User Acceptance Testing

Deliverables

- Test Plan and Scripts
- Test Results and Approvals
- Test Report
- Documented Configuration
- Configured MDM Hub

Deploy & Operate

Activities

- Setup Prod. Environment
- Prepare to Deploy
- Rollout Solution

Deliverables

- Production Job Schedules
- Approval to Deploy
- Operations Manual
- Run Book

Manage

- Manage Project

- Major, minor Milestone Charts
 - Checkpoint Reviews
 - Project Status Reports
 - Deliverable Acceptance
 - End of Project Report





Activities

- Define Vision and Scope
- Plan Project

Mitigation Plan Project Role Matrix

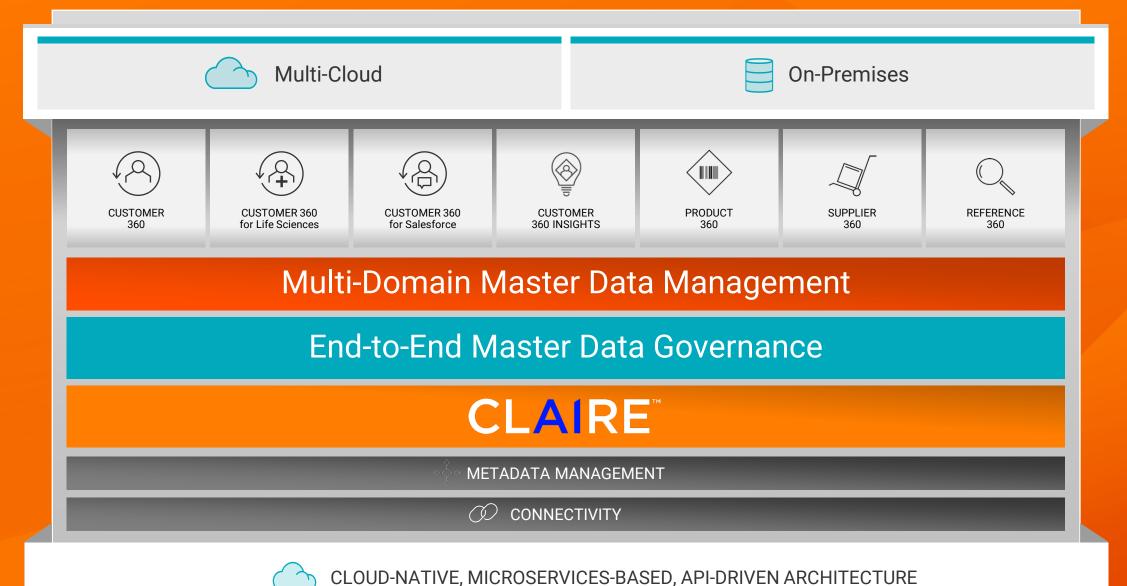
· Project Risk Assessment and

Vision and Scope

Project Plan

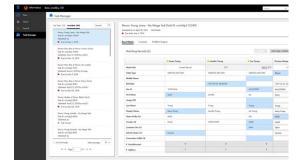


Business 360 Solutions Powered by Master Data

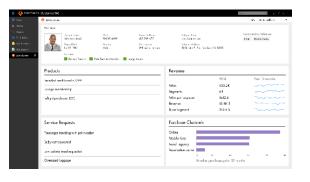


360 Solutions to Support Top Industry Use Cases

Informatica MDM



Customer 360



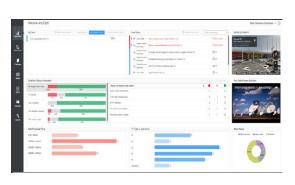
Customer 360 Insights



Cloud Customer 360 for Salesforce



Product 360



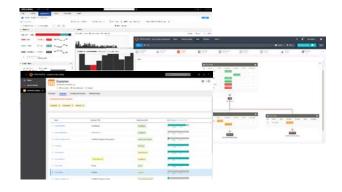
Supplier 360



Reference 360

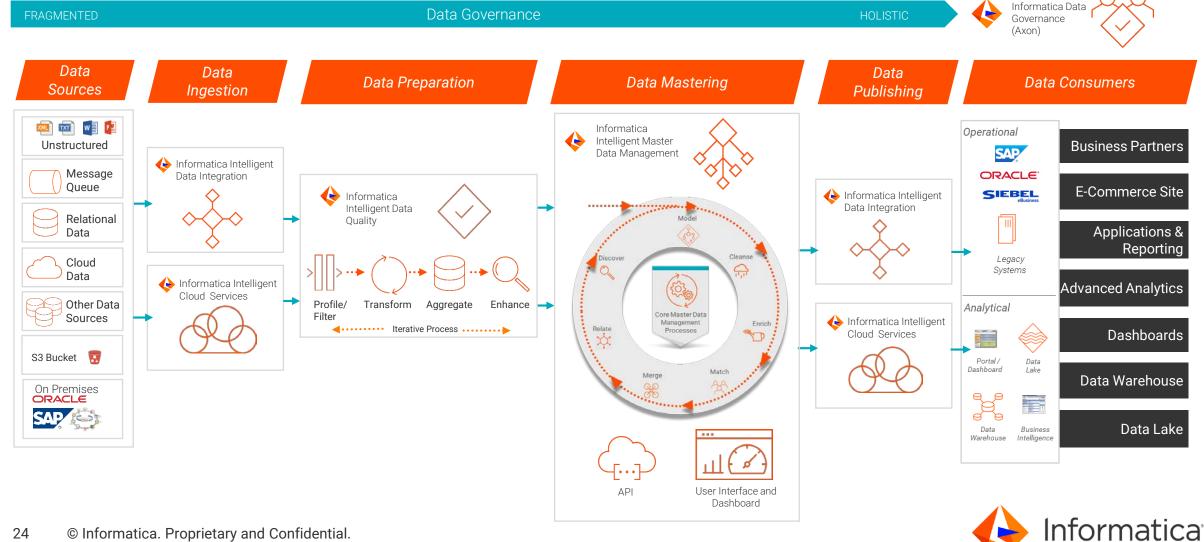


Data Catalog, Quality & Governance





Sample 360 Architecture





MDM Technical Perspective

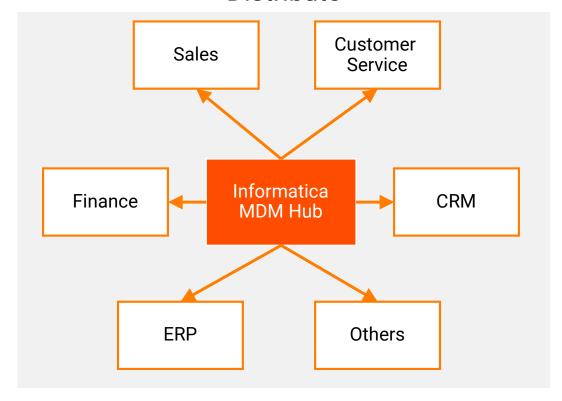
Inbound, Outbound

Main Inbound Data Flow (Reconciliation)

Reconcile Customer Sales Service Informatica Finance CRM MDM Hub **ERP** Others

Main Outbound Data Flow (Distribution)

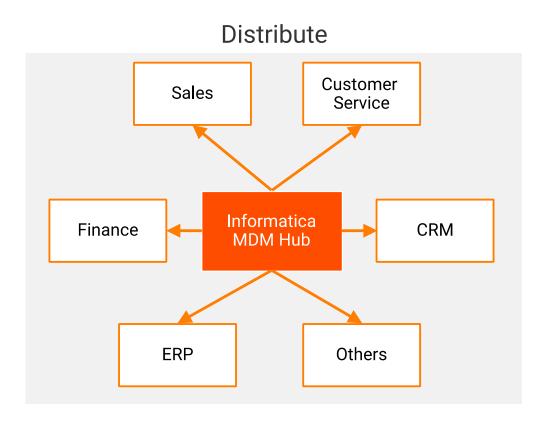
Distribute





MDM Outbound

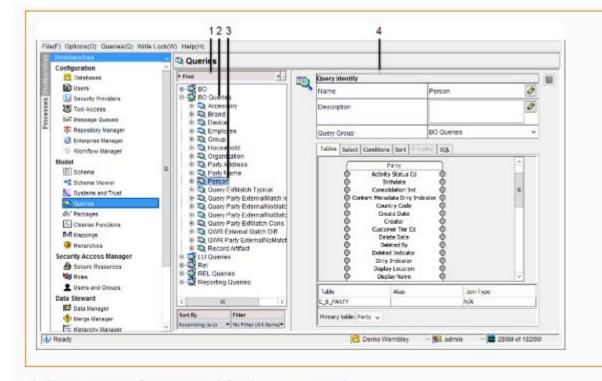
- Read from MDM Publish area and send the data to consuming systems
- Keep track of the systems that are integrated with MDM – Both Current / Future State
- Build Executive Dashboards to expose the data quality trend for different domains and how MDM has helped improve the data quality, in order to show case the value
- Prevent bad data from entering at the source systems



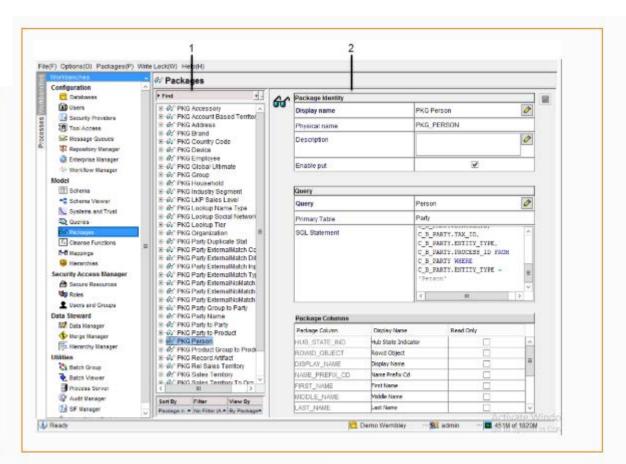


Query & Packages

- Use MDM Query/Packages to join Base Objects
- Database View is created
- Send Mastered data to consumers



- Navigation pane. Contains user-defined query groups and queries.
- Query group.
- 3. Query.
- 4. Properties pane. Contains the properties for the selected query group or query.

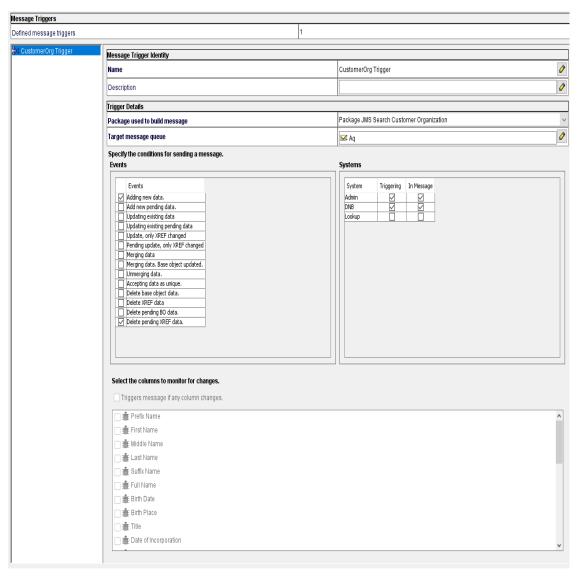


- 1. Navigation pane. Contains user-defined packages.
- 2. Properties pane. Contains the properties for the selected package.



Message Queues

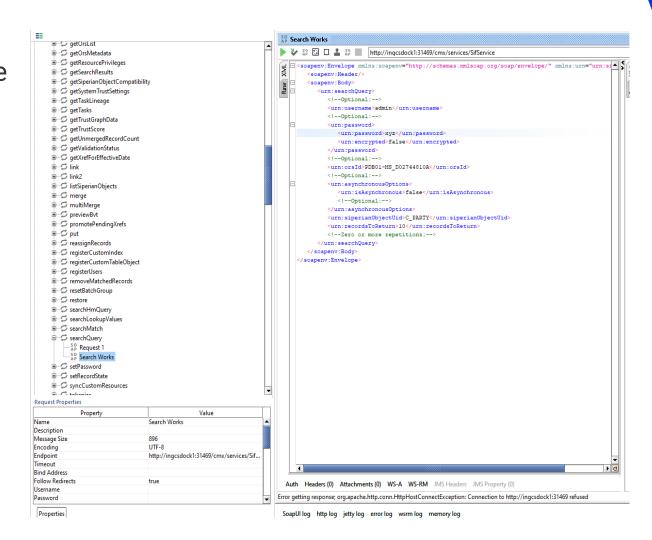
- Configure the MDM Hub publish process to generate XML messages about data changes in the Hub
- Publish the messages to an outbound Java Messaging System (JMS) message queue
- Other external systems, processes, or applications that listen on the message queue can retrieve the message and process it accordingly
- See the screenshot for the types of events can cause a message trigger to be fired and place a message in the queue





Services Integration Framework (SIF)

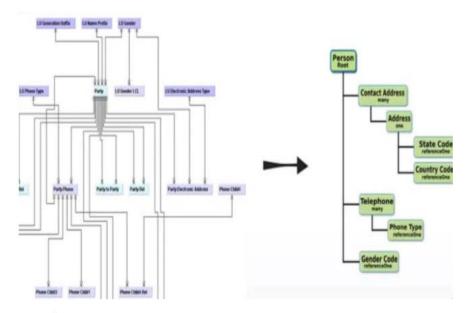
- Services Integration Framework (SIF) is the part of Informatica MDM Hub that interfaces with external programs and applications to implement the request/response interactions
- SIF facilitates inbound and outbound integration with external applications and data sources, which can be used in both synchronous and asynchronous modes
- SIF provides APIs for various MDM Hub services, such as reading, cleansing, matching, inserting, and updating records





Entity 360 Framework

- The Entity 360 framework uses business entity models to support customizable record view layouts
- A business entity represents an entity with significance to an organization, such as customers, products, accounts, or locations.
- You create business entity models based on the schema information that you defined at Operational Reference Store (ORS).
- A business entity model is similar to a subject area in an Informatica Data Director application.
- Multidomain MDM Provisioning Tool To configure business entities, business entity views, transformations, etc.



Entity 360 and IDD

| Entity 360 | | Informatica Data Director |
|------------|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| • Da | ata is organized around Business Entities | Data is organized around Subject Areas and Aggregated to Subject Area Groups |
| 0.00 | onfiguration of Entity 360 applications are done ith the Provisioning Tool | Configuration of IDD Applications are done using the IDD Configuration Manager |
| • Ca | an have unlimited depth of descendant records | Subject Areas can include descendants upto grandchild level |
| | an merge child records at the same descendant vel | Cannot merge child records |
| 2007 | an easily create layouts containing standard nd custom components | Layouts are not easily configurable in Informatica IDD |
| | ide complexity of MDM Hub table structure from nd users through Business Entity Services | Not available in Informatica MDM IDD |



Entity 360 Key Features

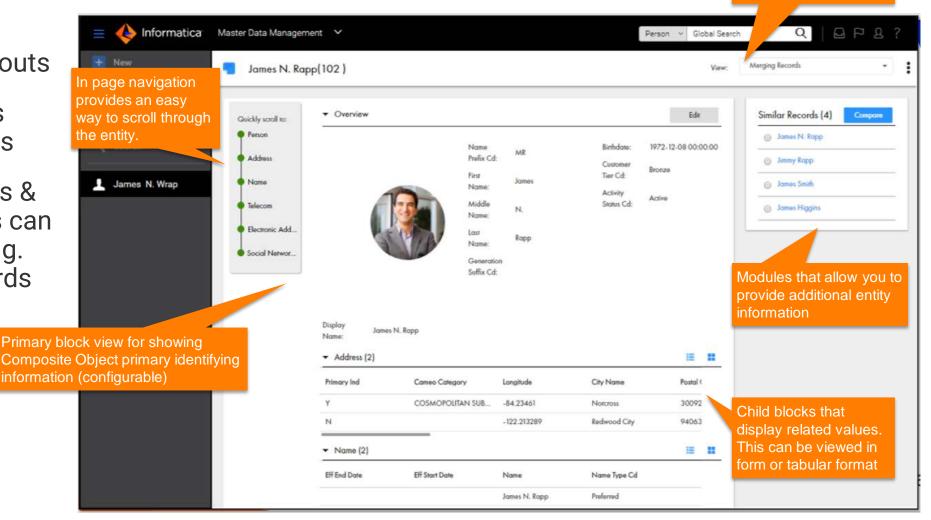
- Integrated business entity services
 - A business entity service is a set of operations that run MDM Hub code to create, update, delete, and search for records in a business entity. It is generated directly from the BE data model
- Configurable User Interface
 - Can design user interface layouts that can contain standard and custom components, such as a Twitter feed. Business analysts can easily create layouts targeted at specific user roles.
- Unlimited nesting of descendant records
 - A subject area can include descendant records up to the grandchild level. BE models can have an unlimited depth of descendant records.
- Ability to merge child records
 - With subject areas, you cannot merge child records. With business entities, you can merge child records that are at the same descendant level.
- Simplified and enhanced data search
 - A full-text search on business entities retrieves data faster than a faceted search on subject areas.



Customizing Entity 360 Interface

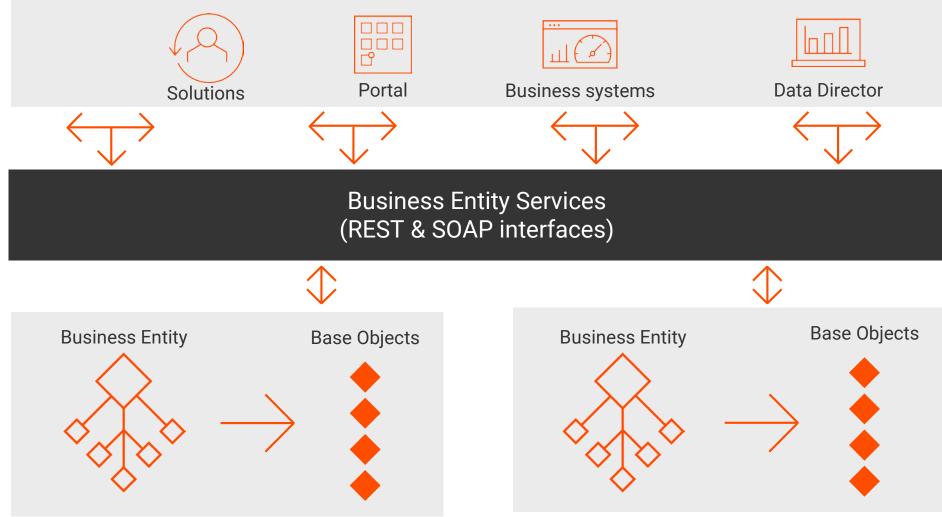
Smart Search box available in header in all page views

- Design Entity view components and layouts
- Create new business entity models / Views
- External Components & internal components can be configured. For e.g. Twitter, Similar records etc.





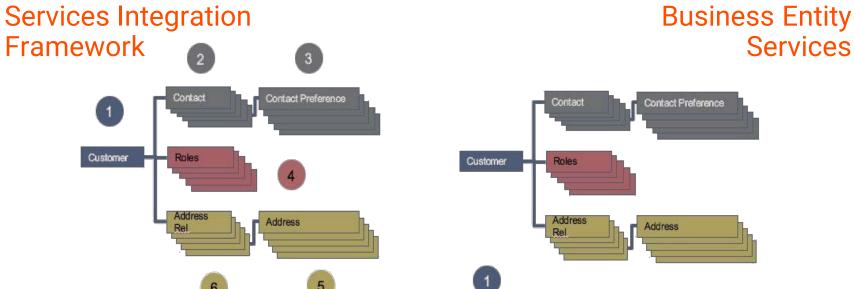
Business Entity Services





Advantages of Business Entity Services

- Metadata driven changes in Business Entity model are reflected automatically
- UI, services and database are all tied together
- Product Roadmap Entity 360 and Business Entity Services are the building blocks for MDM Uls of the future
- Easier to develop against than the Services Integration Framework





Business Entity APIs



:8080/cmx/csfiles

localhost-orcl-REPRO

cs-rest.xsd (urn:cs-rest.informatica.mdm)

cs-base.xsd (urn:cs-base.informatica.mdm)

co-base.xsd (urn:co-base.informatica.mdm)

co-types.xsd (urn:co-types.informatica.mdm)

co-ors.xsd (urn:co-ors.informatica.mdm)

cs-ors.xsd (urn:cs-ors.informatica.mdm)

co-meta.xsd (urn:co-meta.informatica.mdm)

task-base.xsd (urn:task-base.informatica.mdm)

SOAP URL (request in SOAP):

http://localhost:8080/cmx/services/BEServices/localhost-orcl-DS_UI1

REST URL: http://localhost:8080/cmx/cs/localhost-orcl-

DS_UI1/Person?action=meta

localhost-orcl-REPRO.wadl

localhost-orcl-REPRO.wsdl

localhost-orcl-C360

cs-rest.xsd (urn:cs-rest.informatica.mdm)

cs-base.xsd (urn:cs-base.informatica.mdm)

co-base.xsd (urn:co-base.informatica.mdm)

co-types.xsd (urn:co-types.informatica.mdm)

D&BDetailedCompanyProfile_0.xsd (http://www.strikeiron.com)

D&BDetailedCompanyProfile 1.xsd (http://services.dnb.com/FirmographicsProductServiceV2.0)

D&BDetailedCompanyProfile 2.xsd (http://ws.strikeiron.com)

D&BOnDemandEntitySearch_1.xsd (http://services.dnb.com/CompanyServiceV2.0)

D&BOnDemandEntitySearch 0.xsd (http://www.strikeiron.com)

D&BOnDemandEntitySearch_2.xsd (http://ws.strikeiron.com)

NEW WSDL 0.xsd (http://www.strikeiron.com/)

NEW WSDL 1.xsd (http://ws.strikeiron.com)

co-ors.xsd (urn:co-ors.informatica.mdm)

cs-ors.xsd (urn:cs-ors.informatica.mdm)

cs-ors.xsd (urn:cs-ors.informatica.mdm)

co-meta.xsd (urn:co-meta.informatica.mdm)

task-base.xsd (urn:task-base.informatica.mdm)

localhost-orcl-C360.wadl

localhost-orcl-C360.wsdl

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More MDM Tech Tuesday webinars...

- Migration from Subject Area to Entity 360 in MDM
 https://www.youtube.com/watch?v=29be_7cwunU&feature=youtu.be
- Master Data Management using Business Entity Service model https://www.youtube.com/watch?v=kQHTI2zFTas&feature=youtu.be
- MDM Smart Search
 https://www.youtube.com/watch?v=8S4P9cj_q5U&feature=youtu.be
- and more at our Success portal: https://success.informatica.com/explore/tt-webinars.html





Conclusion

- MDM is a Program rather than a project
- Early planning and roadmap definition is key
- Choose the right Informatica products based on your roadmap and business priority
 - Aligning business priority and roadmap helps to achieve faster ROI
- Sketch the big picture, but concentrate on shortterm gain using foundation deployment approach for early wins. Showcase solution capabilities
- Expand with realistic goals and periodic checkpoint reviews to align & improvise

- Consider total costs, not just product license
 - Include hardware, implementation and user training, operational costs related to data governance and maintenance, and cost of potential delays
- Expose the Mastered data to Business consumers
 - Enable business owners to make the right decisions at the right time for the respective domains
- Demonstrate tangible business value to monetize 360 Solutions
 - Identify tangible metrics to measure before, during and after the implementation



Conclusion – Continued...

- Build a business case for MDM with measurable benefits
 - Actually measure whether you've achieved those benefits
 - Continue measuring and sharing the information widely across the organization

Have a successful 360/MDM Journey...





