April 28th 2020

Informatica Cloud Test Data Management

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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

- Overview of the current approaches
- IICS Cloud Test Data Management
 - Data Masking
 - Data Sub-setting
- Consistency Data Masking
- Schedule Options
- Bonus: Data Masking Transformation for CDI
- Q&A



Salesforce use cases

	Production Org	Full Sandbox	Partial Sandbox	Dev Pro Sandbox
	salesforce		salesforce	salesforce
	Unlimited Edition 1		0	5
	Performance Edition 1		1	5
	Refresh Interval	29 days	5 days	1 day
	Max size / data	Same as production Org	5 GB	1 GB
What is copied by Salesforce Metadata and all data		Metadata and sample data	Metadata only	
		In-place masking		Subset and in-stream masking



Dev

Sandbox

15

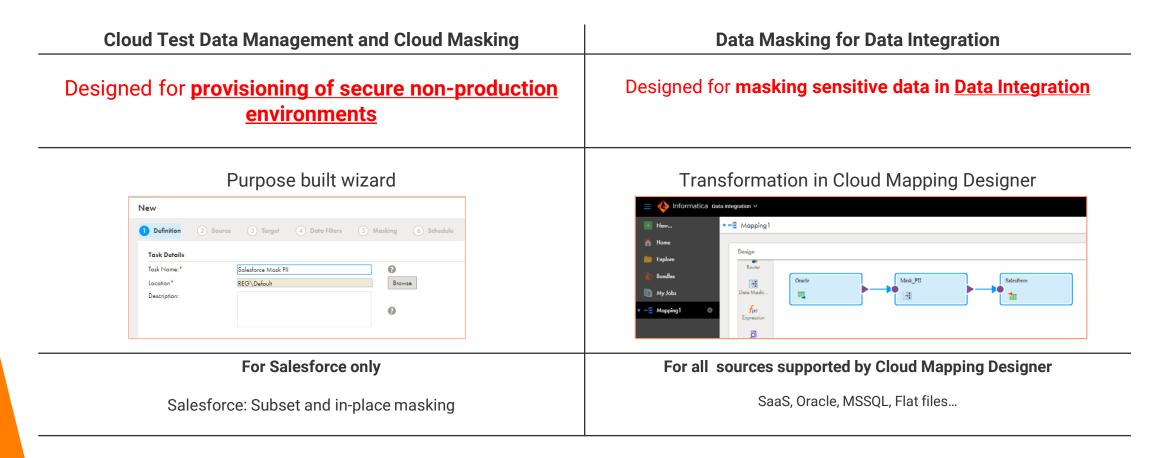
30

1 day

200 MB

Metadata only

Cloud masking offerings at a glance



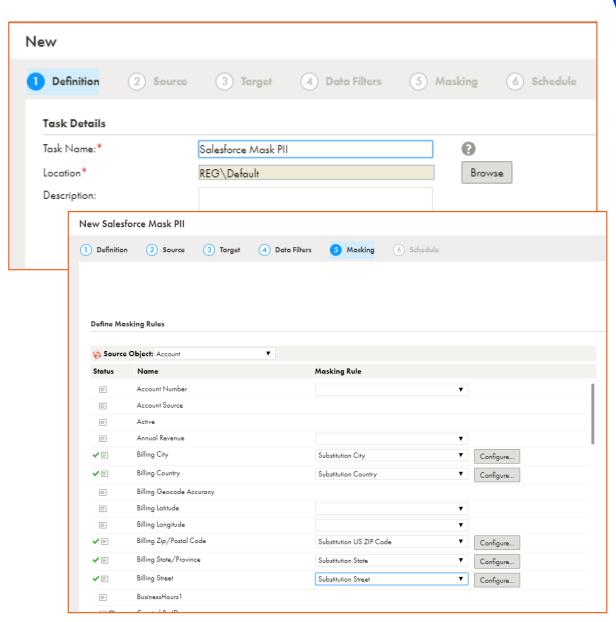
Consistent masking achieved using same set of masking techniques



Data Masking and Subset for salesforce.com

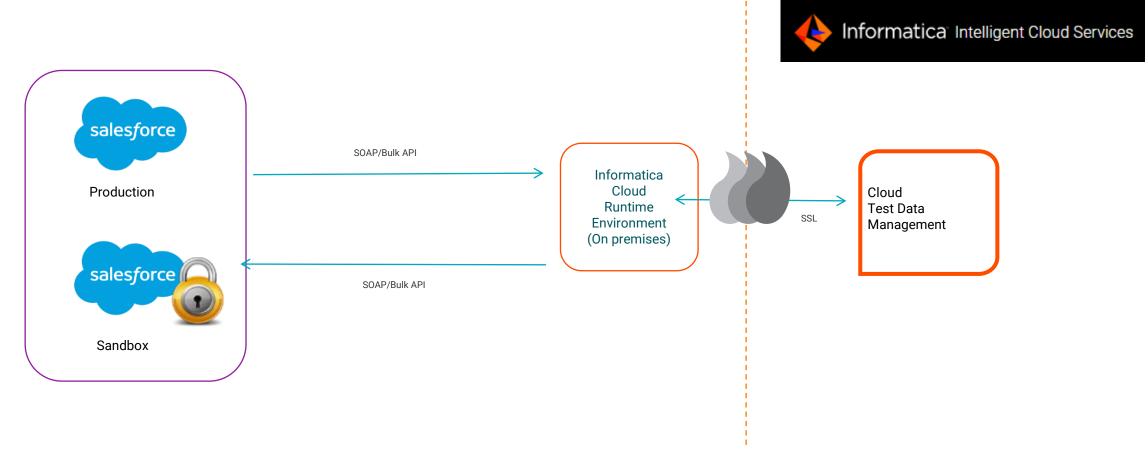
Secure and Populate Sandbox Copies

- Masks existing sandboxes
 - Ensures data privacy
 - Out of the box PII, PHI, PCI data masking rules
- Create test data sets for dev sandboxes
 - Populate empty sandboxes with referentially intact data sets
- Rationalize existing SFDC investment
 - Saves cost of additional full sandbox copies



Cloud-based Test Data Management

High Level Architecture





Masking techniques available

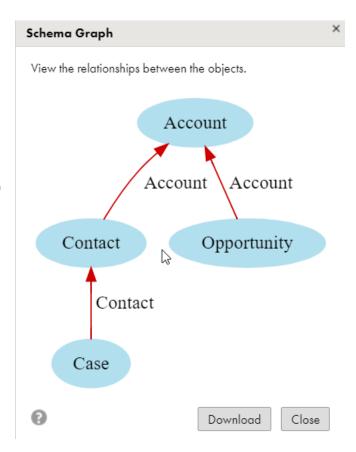




Source Objects

Single or Multiple related Objects

- Single object that doesn't contain any related objects
- Multiple objects that have an explicit relationship defined in Salesforce
- Schema Graph Graphical representation of the relationships
 - Multiple Source Objects
 - Relationships
 - Assignments





Target Task Operations

Single or Multiple related Objects

- Partial Sandbox Insert, Update, Upsert operations are possible
- Inplace Masking target is same as source; only update
- Refresh Fields when there's a change in metadata
- Validation Reports lists mandatory relationships, fields, and field and relationship mismatch between source and target



Refresh Metadata

Obsolete metadata

- Refresh metadata without editing task Explorer Page
 - Refresh runs a separate job
 - Cannot run an instance of masking task and a refresh job at the same time
- Refresh metadata from within a task
 - Refresh source and/or target fields from within a masking task when you create or update a masking task
- Best Practice: If you need to update many objects then you refresh metadata without editing the task



Staging Database

H2

- H2 Database
 - Stage record ID's
 - Data subset for simple entities
 - Entities with junction objects
 - Multipath & Lookup based relationships
 - Masking fields
- H2 Staging Database Installer
 - Packaged along with Secure Agent; run the installer to install the staging connection
 - Either start the database connection from Schedule page of the masking task wizard or manually run the H2 startup script



Data Subset & Masking Rules

- Masking Task maintains primary-foreign key relationships and reconciles the object relationships in the subset data
 - Data Filter Simple or Advanced data filter
 - Relationship Behavior (Schema Graph)
 - Subset Statistics Helps in estimating/evaluating target size for the data subset
- Masking Rules You can apply masking rules to fields which are not readonly
 - Masking Rule Assignments Masking Rules by field data type
 - Add Mapplets Use Passive mapplets to mask target fields
 - Target Fields Common & Missing Mandatory fields

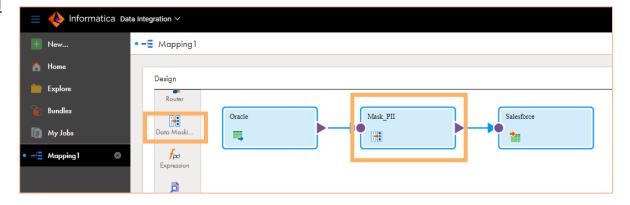




Data Masking Transformation

Available on Cloud Mapping Designer

- Designed to mask sensitive data in data integration use cases
- Supports all sources and targets supported by Cloud Mapping Designer
- Embeds several masking techniques: SSN, credit card, substitution, random and others
- Not designed for creation of new test environment systems





Consistent masking between TDM and CTDM

- Cloud TDM, on premise TDM, Data Masking Transformation in Cloud Mapping Designer and PowerCenter <u>can mask consistently</u>
- Repeatable: same masked result for the same input

Original	TDM	CTDM	DDM
John Adams Tim Jones		Tim Jones	Jo***
Nicholas Cage	Jack Nicholson	Jack Nicholson	Ni***
John Adams	Tim Jones	Tim Jones	Jo***

Original	TDM	CTDM	DDM
John Adams	Tim Jones	Calvin Kline	Jo***
Nicholas Cage	Jack Nicholson	Joanna Wu	Ni***
John Adams	Fred Mercury	Perry Mason	Jo***

Repeatable ON

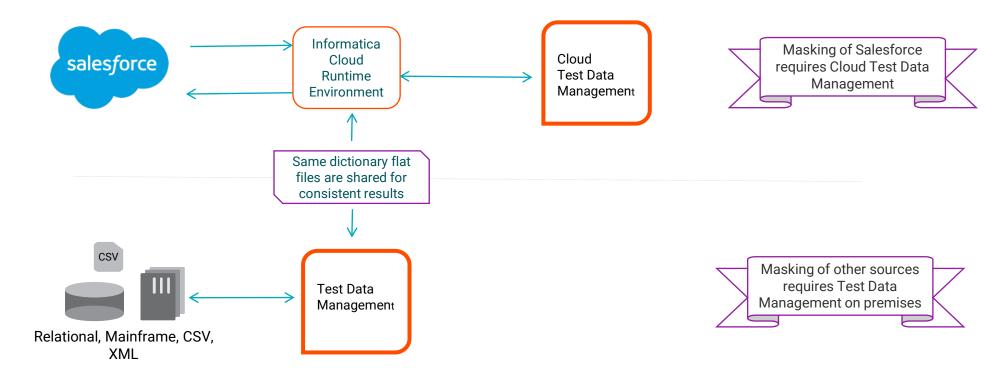
Repeatable OFF

• **Seed value**: point for generating masked values. If the same <u>seed value and same</u> <u>dictionary</u> (for substitutions) is used, same result will be obtained



Consistent masking use cases

High Level Architecture





Test Data Management and Cloud Test Data Management

Main characteristics and features

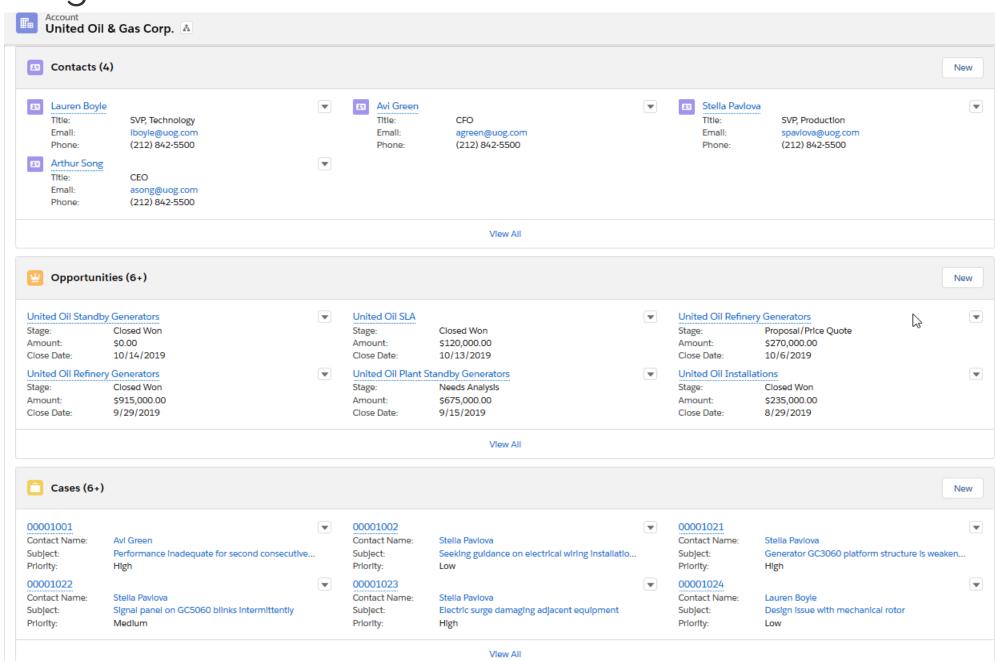
Informatica Test Data Management and Cloud Test Data Management are complementary solutions

	Test Data Management (on premises solution)	Cloud Test Data Management (Hosted SaaS solution)	Dynamic Data Masking (Masking data on the move)
High Performance and Scalable Subset and Masking	•	•	•
Centralized Administration and Management	•	•	•
Profiling: discover sensitive data and infer relationships	•		
API for DevOps integration	•	•	
Data Validation	•		
Connectivity to Relational, No-SQL, Mainframe	•		•
Masking and Subset for Salesforce Sandboxes		•	
Masking and Subset for Mainframe	•		
Masking No-SQL and Hadoop	•		•
Test Data Warehouse and Self Service Portal	•		
Test Data Generation	•		
Test Data Coverage	•		



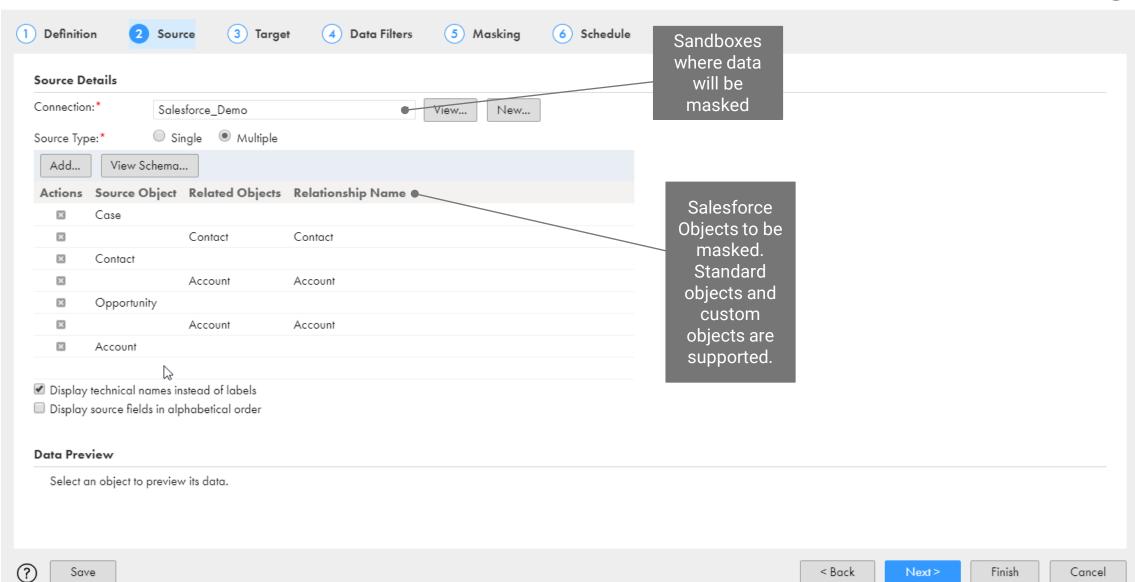


Original data in Salesforce



Definition of a Masking Task - Source object

Edit dm_MaskingSubsetting_Demo



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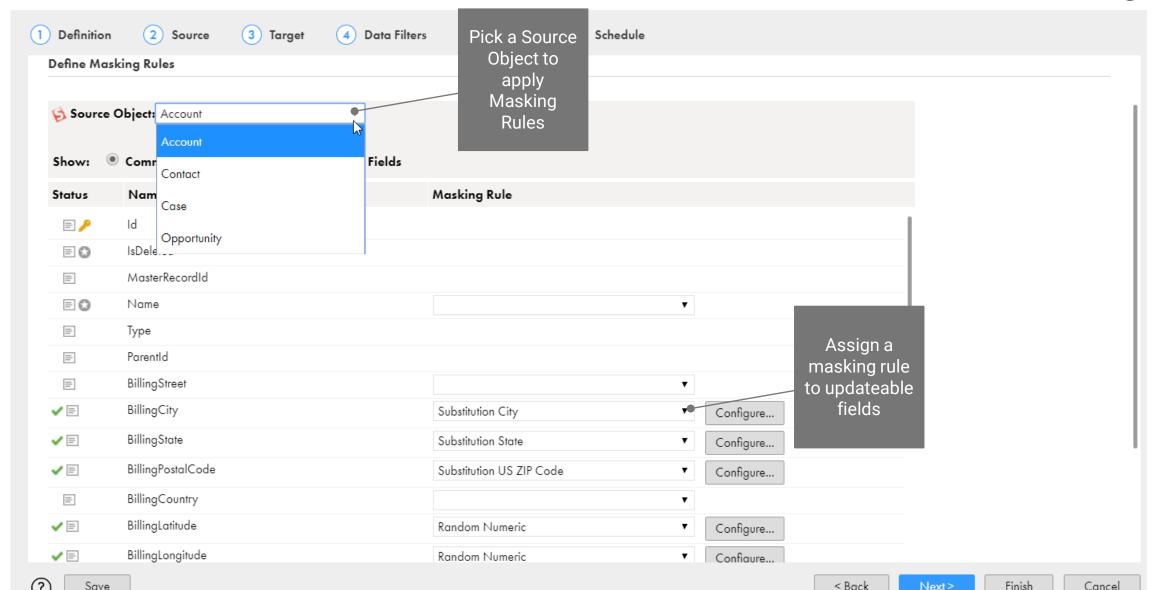
Definition of a Masking Task - Data Filters

 \otimes Edit dm_MaskingSubsetting_Demo (6) Schedule 1 Definition 2 Source (3) Target (5) Masking Data Filters Data Filter: **Data Filters** New... Simple & Advanced Filter by Object Schema Graph Account.Name='United Oil & Gas Corp.' Account View the relationships between the objects. View Schema...◀ Relationship Behavior Configure... Account Join Operations: 😱 3 Selection Sequence: View... Account Account Configure Relationship Behavior Configure the relationship to select the child objects that you want to include in the data subset. Opportunity Contact Source Object Child Record Selection Related Objects Relationship Name Account Contact Contact Account Opportunity Account Contact Case Case Contact Case Opportunity Close Download < Back Next> Finish Cancel

Definition of a Masking Task - Masking configuration

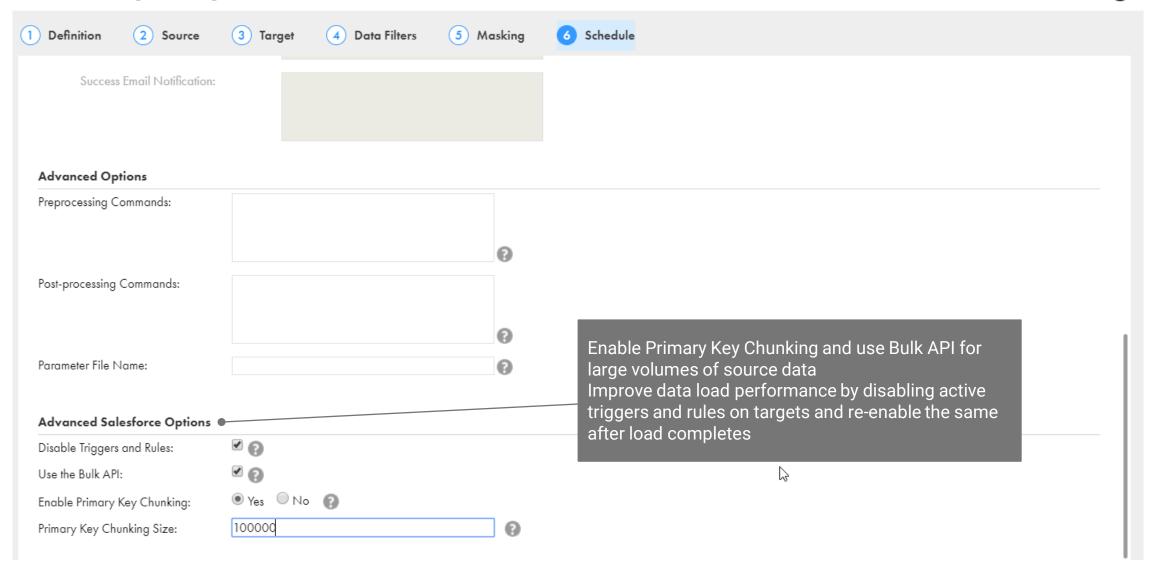
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Edit dm_MaskingSubsetting_Demo



Definition of a Masking Task - Schedule

Edit dm_MaskingSubsetting_Demo



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Masked data in Salesforce

