Tech Talk Series
PowerCenter Users: Architect Your Future to the Cloud

Session 2 of 4:
The Best Way to Modernize from PowerCenter to the Cloud

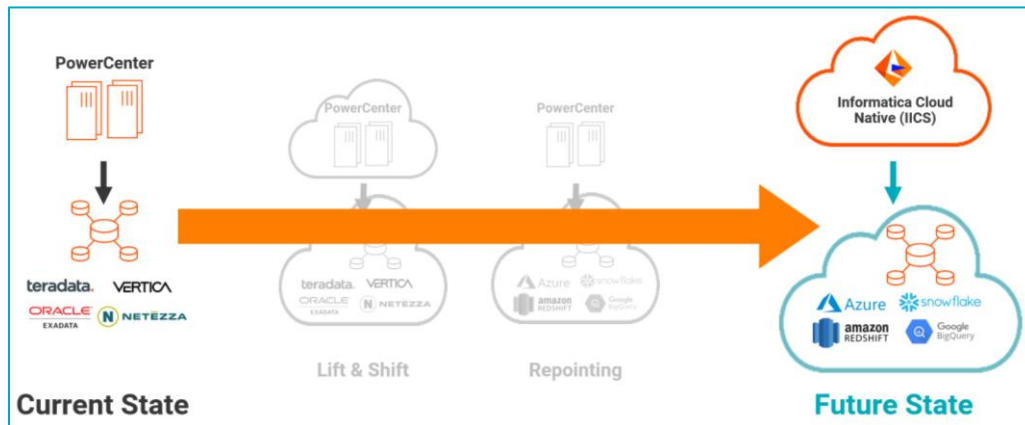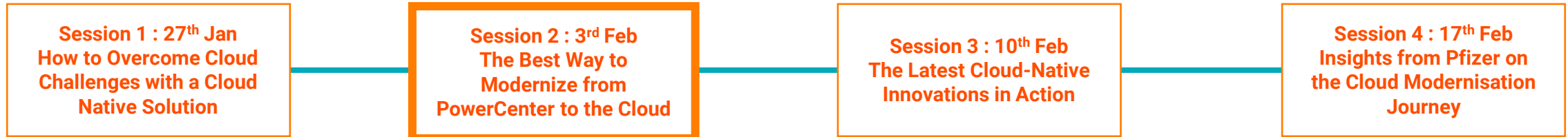Steve Holyer
Informatica Cloud Specialist, Informatica

Rick Mutsaers
Principal Architect, Informatica
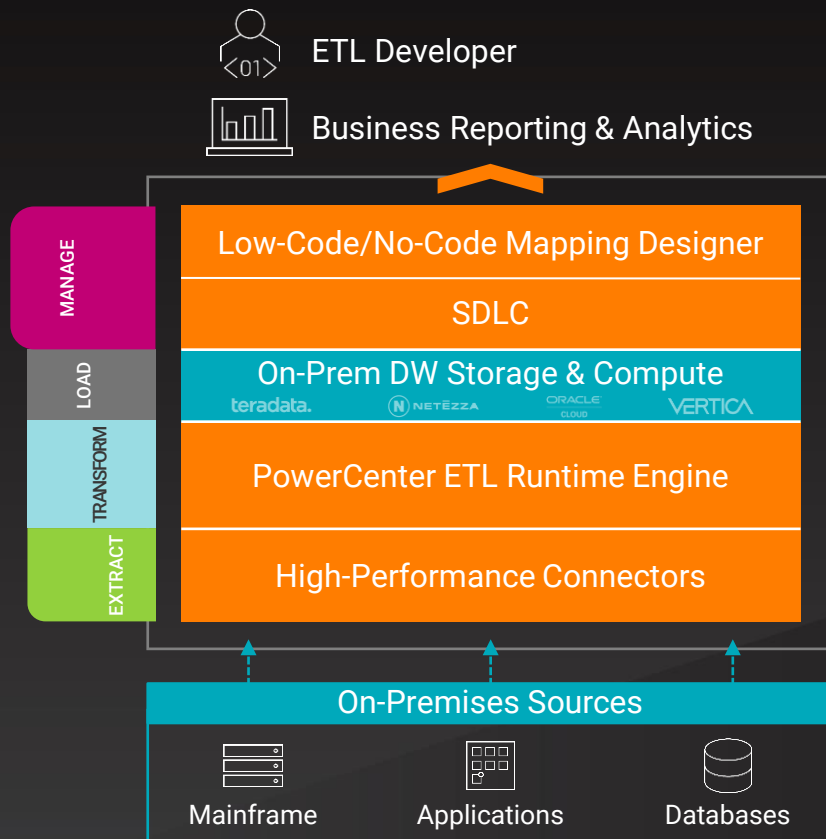
PowerCenter to IICS Modernization Program

This Webinar Series: PowerCenter Users: Architect Your Future to the Cloud

Session 1 : 27th Jan How to Overcome Cloud Challenges with a Cloud Native Solution	**Session 2 : 3rd Feb** The Best Way to Modernize from PowerCenter to the Cloud	**Session 3 : 10th Feb** The Latest Cloud-Native Innovations in Action	**Session 4 : 17th Feb** Insights from Pfizer on the Cloud Modernisation Journey

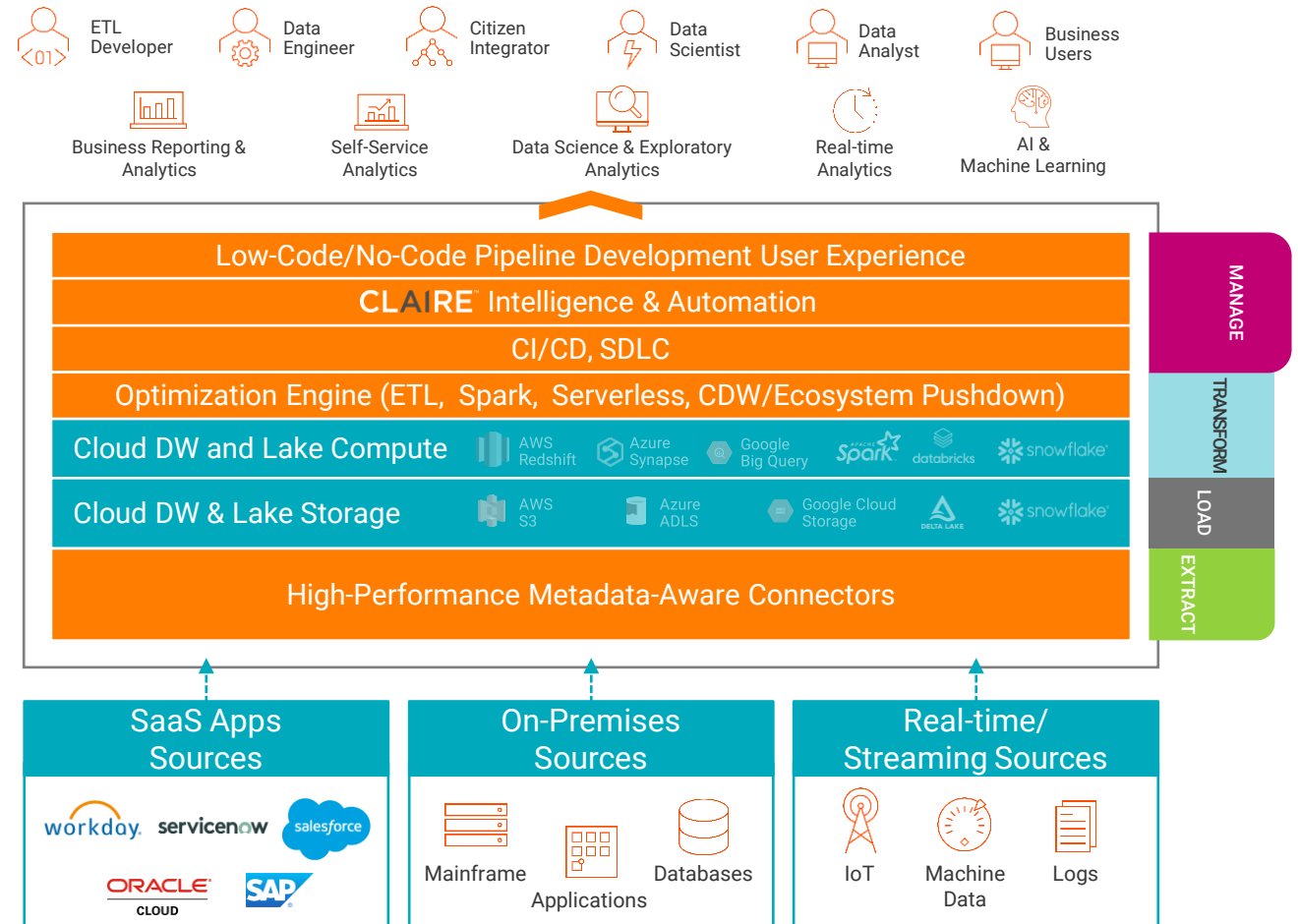|		
On-premises	→	Cloud Native
Annual Maintenance on a perpetual license	→	Annual Subscription for Software as a Service
Fixed amount of processing cores	→	Usage based model
Fixed set of products and options	→	Remixable set of services
Customer provided and managed infrastructure	→	Multi-tenant microservices based architecture managed by Informatica

Informatica

Why do I need a different solution for my CDW Modernisation?

Informatica®

PowerCenter for
Traditional ETL for Star Schema

Informatica Data Management Cloud for
Modern Cloud ELT for Cloud DW/L

ETL Developer

Business Reporting & Analytics

MANAGE / **LOAD** / **TRANSFORM** / **EXTRACT**

Low-Code/No-Code Mapping Designer

SDLC

On-Prem DW Storage & Compute
teradata. NETEZZA ORACLE CLOUD VERTICA

PowerCenter ETL Runtime Engine

High-Performance Connectors

On-Premises Sources
Mainframe | Applications | Databases

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ETL Developer | Data Engineer | Citizen Integrator | Data Scientist | Data Analyst | Business Users

Business Reporting & Analytics | Self-Service Analytics | Data Science & Exploratory Analytics | Real-time Analytics | AI & Machine Learning

MANAGE / **TRANSFORM** / **LOAD** / **EXTRACT**

Low-Code/No-Code Pipeline Development User Experience

CLAIRE™ Intelligence & Automation

CI/CD, SDLC

Optimization Engine (ETL, Spark, Serverless, CDW/Ecosystem Pushdown)

Cloud DW and Lake Compute — AWS Redshift | Azure Synapse | Google Big Query | Spark | databricks | snowflake

Cloud DW & Lake Storage — AWS S3 | Azure ADLS | Google Cloud Storage | DELTA LAKE | snowflake

High-Performance Metadata-Aware Connectors

SaaS Apps Sources
workday. servicenow salesforce ORACLE CLOUD SAP

On-Premises Sources
Mainframe | Applications | Databases

Real-time/Streaming Sources
IoT | Machine Data | Logs

IDMC much better suited for modern (cloud) analytics

Traditional Data Warehouse

Cloud Native Modern Analytic Platform

Benefits

PowerCenter set the bar in the traditional on-premises world

❶ Not aligned with modern CDW design principles

❷ Can't keep up with cloud agility

❸ Need to optimize mappings for CDW

❹ Higher infrastructure costs

Informatica Data Management Cloud sets the bar in the modern Cloud Data Warehouse (CDW) and Data Lake (DL) world

PowerCenter

PowerCenter with CDW Repointing

IICS

Informatica

Cloud Modernization Solution for PowerCenter : Migration Factory

CDW Modernization Solution for PowerCenter

Fastest Path and Lowest Risk with Out-Of-Box Modernization Solution

	Package Component	Description
1	Cloud Native Products	**Informatica Data Management Cloud** Informatica Processing Unit (IPU) based access to Integration, Quality, Governance
2	Migration Factory	Assessment, Migration and Automation tools
3	Migration Support	Ongoing support of customer's existing PowerCenter environment through the migration
4	Professional Services	IPS services (included with migration factory) provided as part of this solution

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Informatica's Migration Factory to Modernize PC to IICS

10,000+ mappings
5,000+ workflows
10,000+ sessions
1,000+ parameter files
100+ connections
100+ custom scripts
100+ users with access controls
50+ schedulers

Only Informatica understands the assets in both the PC and IICS repositories and the 150+ PC features that need to be converted to IICS.

PowerCenter

Informatica Cloud Native

Mass Ingestion

Data Integration

Data Integration Elastic

Data Quality

Assess	Prepare	Convert	Validate	Organize	Productionize	Optimize
Scope work	Prepare IICS environment	Convert PC artifacts to IICS	Verify converted metadata, data validation and testing	Organize mappings, users, access control	Update schedulers and scripts	Performance tuning and best practices optimization

Effort

5%   65%   20%   10%

Informatica®

How does that work financially?
Do I pay for two solutions?

Informatica

CDW Modernization Solution for PowerCenter

Financial incentives for loyal Informatica customers

	Package Component	Description
1	Cloud Native Products	**Informatica Data Management Cloud** Informatica Processing Unit (IPU) based access to Integration, Quality, Governance
2	Migration Factory	Assessment, Migration and Automation tools
3	Migration Support	Ongoing support of customer's existing PowerCenter environment through the migration
4	Professional Services	IPS services (included with migration factory) provided as part of this solution
5	**Financial incentives**	**Credits on your annual PowerCenter maintenance or subscription bill** **Credits for the migration factory services**

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Why use the Migration Factory?

Comparing modernization options
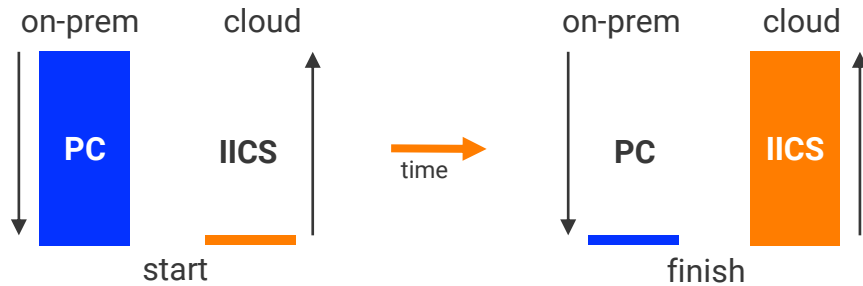
Re-architecting

- Pro
  - Start fresh, fix modeling issues
- Con
  - Very **time consuming** (consider how long it took to build current architecture)
  - **High cost**
  - New tools = **new challenges**
  - **Double cost** during development of new solution
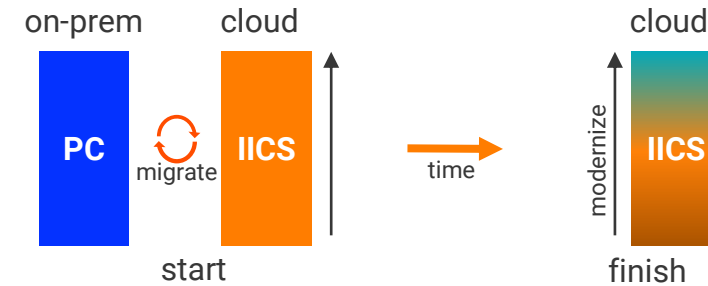
Re-platforming

- Pro
  - Get rid of current infrastructure **fast**, avoid double cost
  - **Low impact** to business since reports/dashboards don't change, only underlying technology changes
  - Build experience with new tech before modernize
  - Prioritize modernization at **no double cost**
- Con
  - There's a migration cost associated
  - Takes a bit longer to modernize (because you migrate first)

Faster

- Automated Migration utilities
- Migration Factory approach
- Reduced Time-To-Market

Cheaper

- Reduced time = less cost
- Higher quality code = less rework
- Less development resources

Less risky

- Code generation = less errors
- Predefined scope = less scope creep
- Shorter duration = less scheduling challenges

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Time Comparisons for Different Approaches

Person Hours per Asset

Manual - Hand Coding	Manual - PC Repointing	Manual - PC to IICS	Migration Factory PC to IICS
20X	10X	6X	1X

Informatica
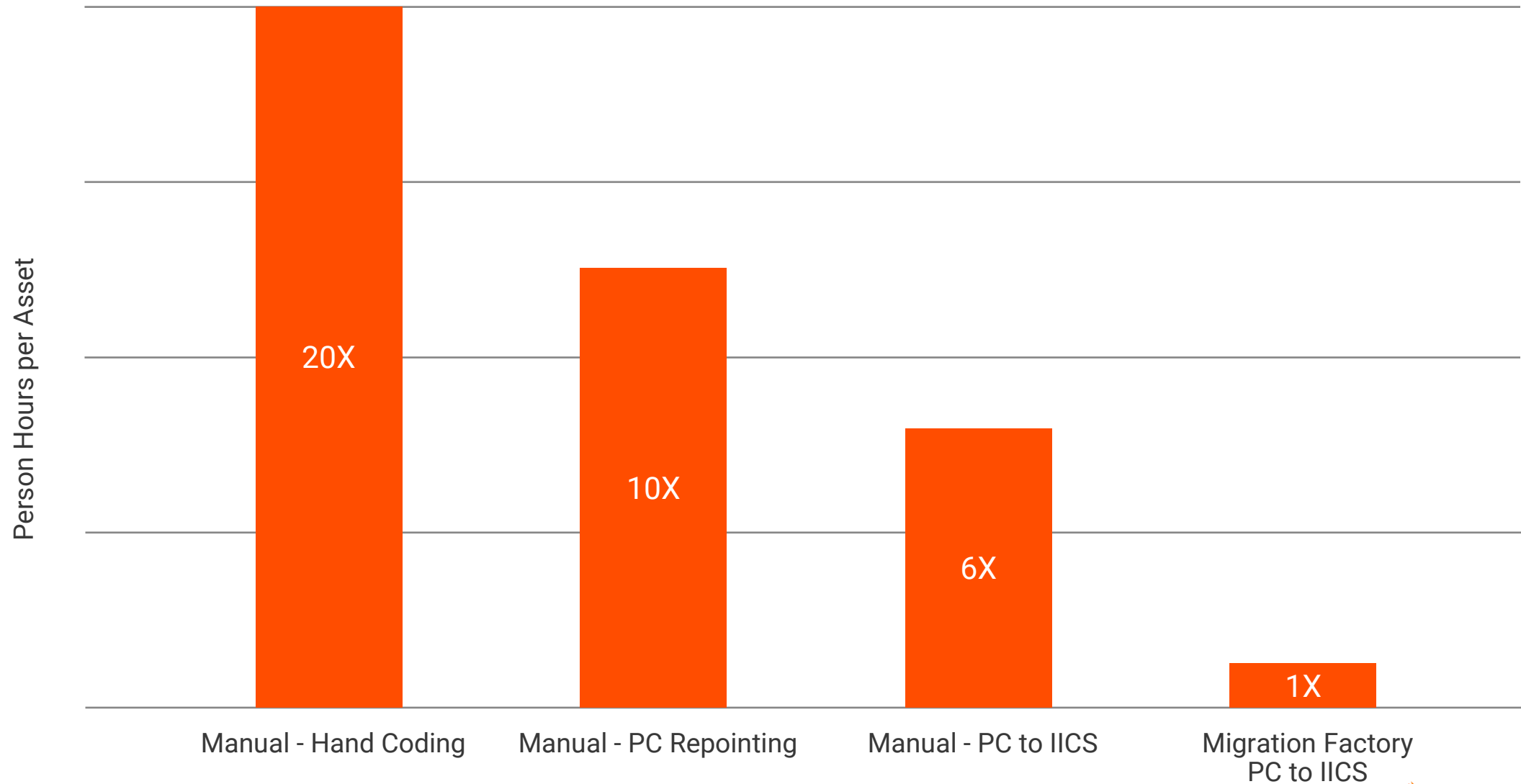
Two Parts to the Migration Factory

Assess

Intelligence

Analyze all PowerCenter assets (mappings, sessions, workflows) to get a full picture of what can be migrated using migration factory
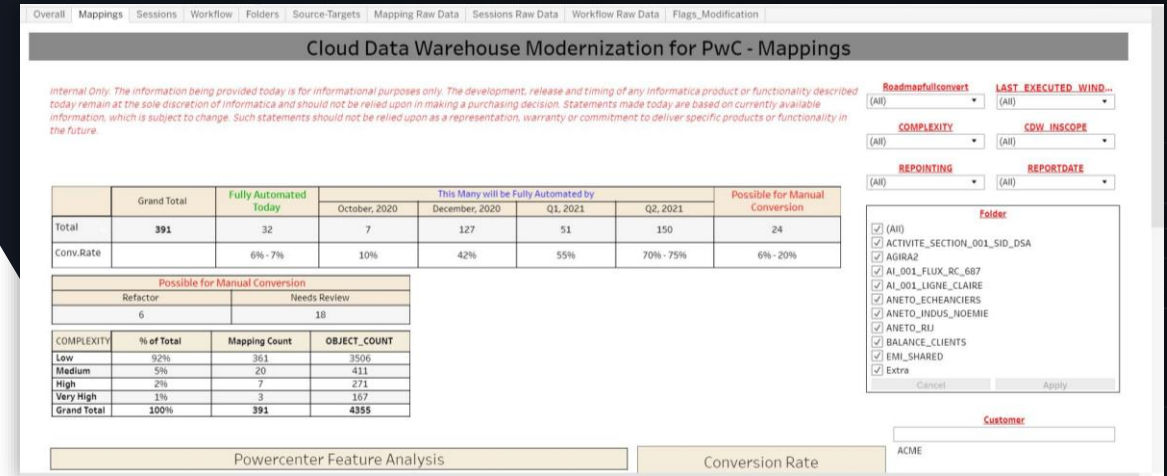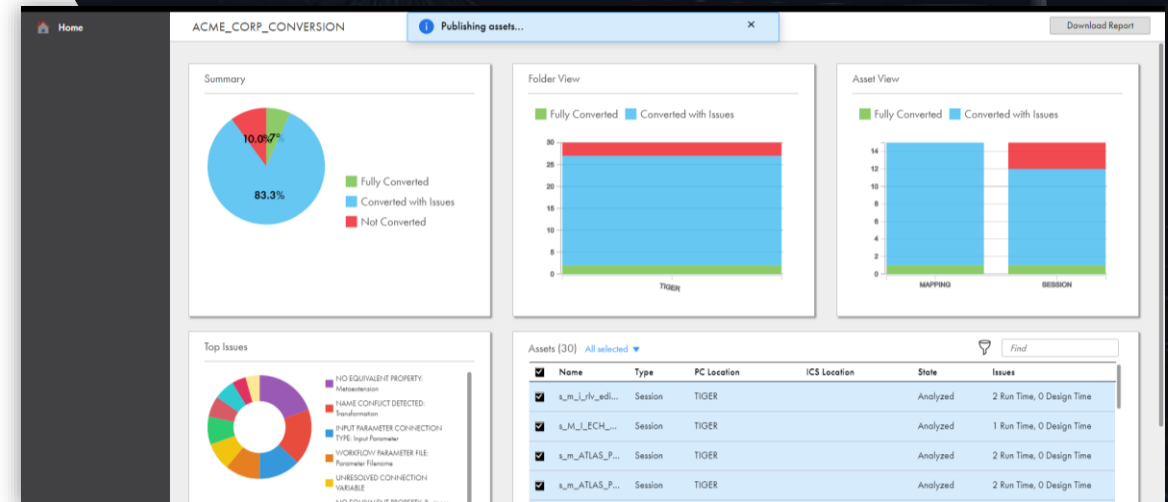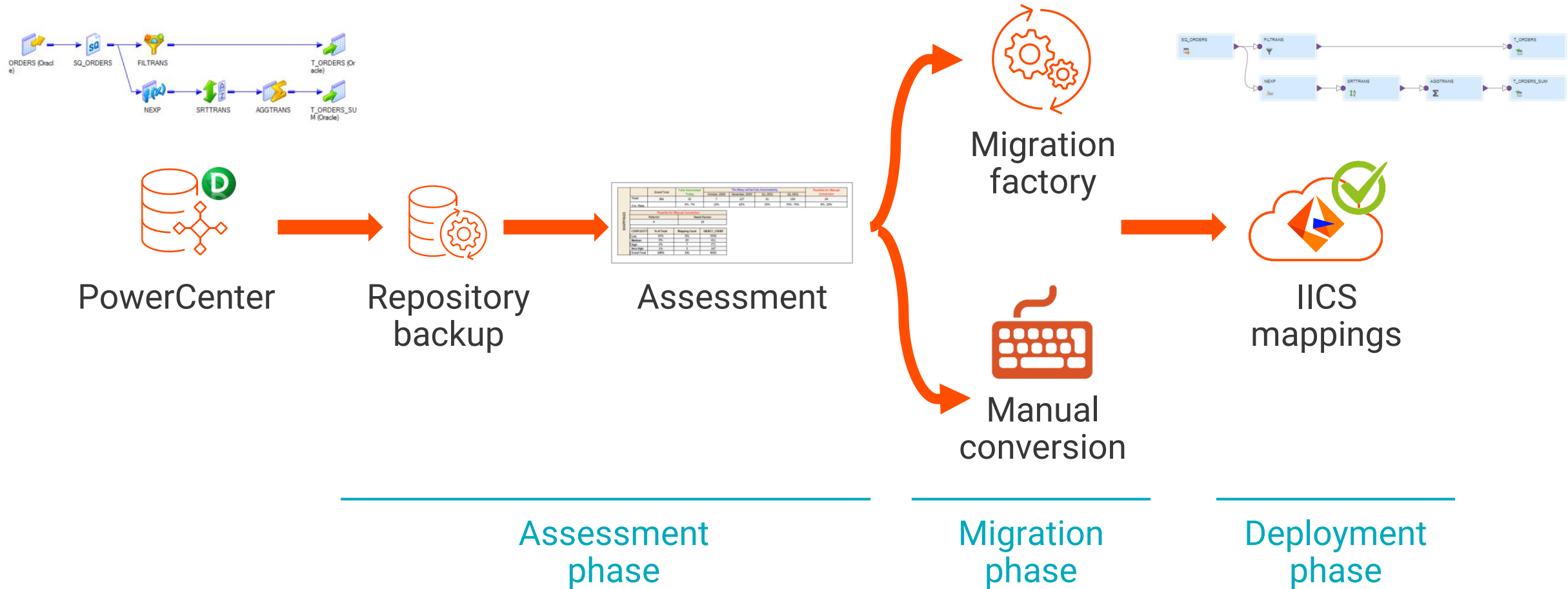

Migrate

Automation

Migrates PowerCenter assets to IICS and repoints mappings from EDW to CDW and performs initial unit testing

Modernization process for PowerCenter customers

PowerCenter → Repository backup → Assessment → Migration factory / Manual conversion → IICS mappings

Assessment phase | Migration phase | Deployment phase

Customer, Informatica & Partner Collaborative Approach

Who does what in a PowerCenter modernization project

	ASSESS	PREPARE	CONVERT			VALIDATE	ORGANIZE	OPERATIONALIZE	TEST	OPTIMIZE
	Scope Work	Prepare IICS Environment	Automate Conversion	Manual Conversion	Conversion Finishing	Unit Testing	Mappings, Users, & Access control	Update Schedulers & Scripts	Data Validation & User Acceptance Testing	Performance Tuning & Best Practices
Informatica Migration Factory	☑		☑		☑	☑				
Partner		☑	☑*	☑	☑*	☑	☑	☑	☑	☑
and/or										
Customer		☑		☑		☑	☑	☑	☑	☑

* Starting in 2022, select partners will be able to run migration factory in support of end to end migration projects

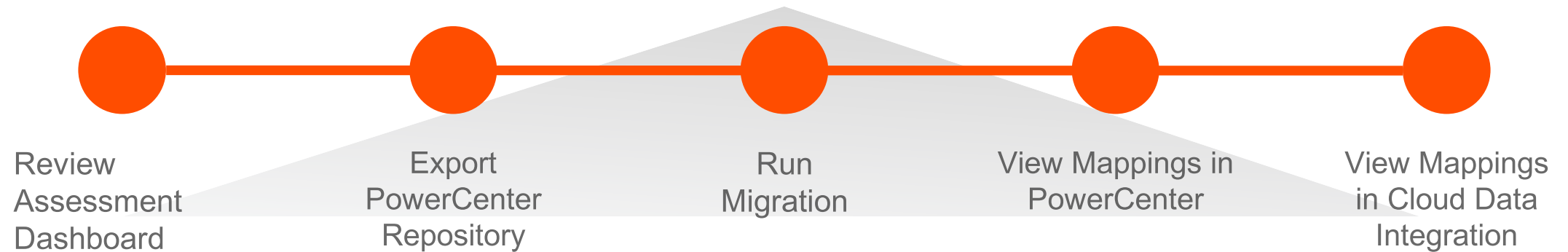© Informatica. Proprietary and Confidential.

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Migration Factory Demo

Review Assessment Dashboard

Export PowerCenter Repository

Run Migration

View Mappings in PowerCenter

View Mappings in Cloud Data Integration

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Explore / GCS / GCS Analytics / PC2IICS Dashboard_New / Mappings ☆

Device Layouts   Data Sources

Undo Redo Revert Refresh Pause   View: Original Alerts Metrics Subscribe Edit Share Download Comments Full Screen

Overall Mappings Sessions Workflow Folders Source-Targets Mapping Raw Data Sessions Raw Data Workflow Raw Data Flags_Modification

Cloud Data Warehouse Modernization for PwC - Mappings

Internal Only. The information being provided today is for informational purposes only. The development, release and timing of any Informatica product or functionality described today remain at the sole discretion of Informatica and should not be relied upon in making a purchasing decision. Statements made today are based on currently available information, which is subject to change. Such statements should not be relied upon as a representation, warranty or commitment to deliver specific products or functionality in the future.

Roadmapfullconvert
(All)

LAST_EXECUTED_WIND...
(All)

COMPLEXITY
(All)

CDW_INSCOPE
(All)

Conversion
(Multiple values)

REPORTDATE
(All)

	Grand Total	Fully Automated Today	This Many will be Fully Automated by		Possible for Manual Conversion
			Q2-2021	Q4-2021	
Total	19,133	16,384	1,387	1,073	289
Inc. Total	19,133	16,384	17,771	18,844	
Cnv. Rate		86%	93%	98%	2%

Possible for Manual Conversion

Refactor	Needs Review
23	266

COMPLEXITY	% of Total	Mapping Count	OBJECT_COUNT
Low	96%	18,289	113,339
Medium	4%	716	15,763
High	1%	108	3,094
Very High	0%	9	47
Extremely	0%	11	576
Extremely ..			
Grand Total	100%	19,133	132,819

Folder

- ☑ (All)
- ☑ Accio
- ☑ ACTIVITE_SECTION_001_SID_DSA
- ☑ AGIRA2
- ☑ AI_001_FLUX_RC_687
- ☑ AI_001_LIGNE_CLAIRE
- ☑ ANETO_ECHEANCIERS
- ☑ ANETO_INDUS_NOEMIE
- ☑ ANETO_RIJ
- ☑ Apps_Jobs
- ☑ Atlas to SFDC Data Migration
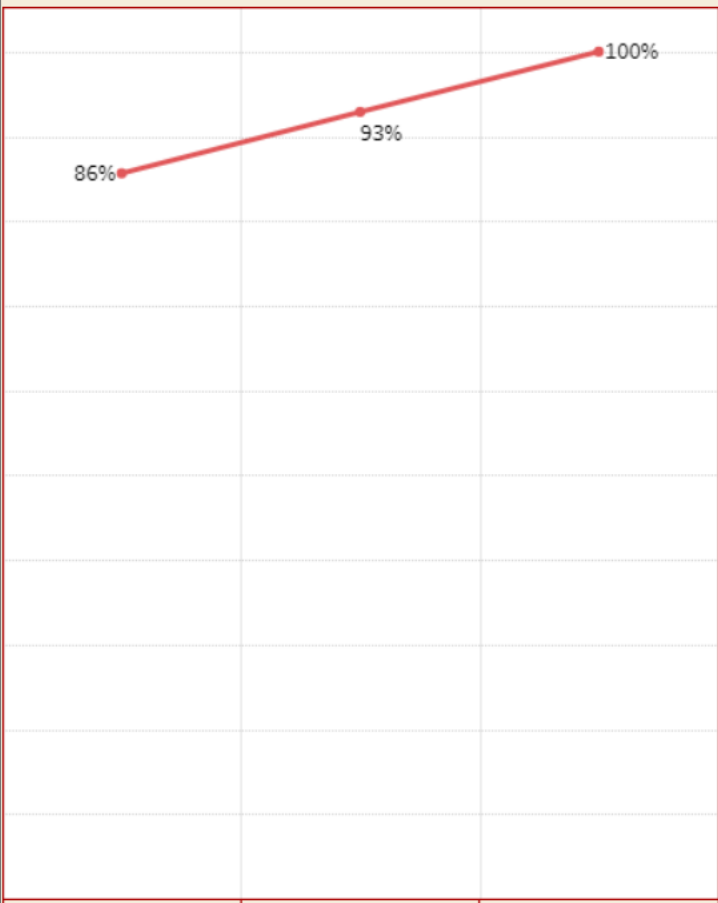
Cancel   Apply

Customer

FLAG_ROADMAP
(All)

Powercenter Feature Analysis

Conversion Rate

FLAG_ROADMAP

(All) ▾

Customer

Powercenter Feature Analysis

Roadmap	MAX_ROAD..	PC Feature	#Instance	#Mapping
Q2-2021	R05	DYNAMIC_LKP	2	1
		FILENAMEPORT	11	11
		IS_MULTI_SRC	20	19
		LKP_SQL_OVERRIDE_PROVIDED	193	45
		LKP_SRC_FILTER_PROVIDED	79	11
		LookupCachingEnabled	188	67
		MIDSTREAM_UPDATE_STRATEGY	1	1
		MULTI_SRCMORETHAN2	4	3
		NonSupportedTxs	13	13
		NOOF_SRCSORTEDPORTS_REL	8	6
		NOOFBUILTINPARAMETERS	45	24
		NOOFEXPRSWITHBUILTINPARAMETERS	38	24
		NOOFINOROUTPORTDESCRIPTIONS	17	12
		NoOFNormalizer_TX	8	3
		NOOFOUTPUTPORTDESCRIPTIONS	1,254	1,167
		NOOFPARAMETERS_ISEXPR	1	1
		NOOFPIPELINES	199	65
		NoOFRankTx	5	5
		NoOFRouter_TX	75	24
		NoOfSourceJOIN_REL	1	1
		NoOfSourceSelDistinct_REL	9	7
		NOOFSOURCETGTFIELDDESCRIPTIONS	2	2
		NoOfSQLTrans_RELATIONAL	96	24
		NoOFSQLTransformations	96	24
		NoOFStoredProcedures	2	2
		NOOFTARGET_UPDATE_OVERRIDE_REL	12	4

Conversion Rate

100%
93%
86%

Repository   Edit   View   Folder   Versioning   Security   Analyze   Tools   Windows   Help

w_DWH2_002_01_dimensionPli

Name	Comments	Last Saved	Reusable	Instanc...	Versi...	Mapping Name
asg_libelleTraitement	Assignati...	10/15/2020...	no	yes	1	
Start	-	10/15/2020...	no	yes	1	
s_DWH2_002_01_dimensionPli	[02/01/20...	10/15/2020...	no	yes	1	m_DWH2_002_...
s_SHARED_TECH_01_suiviDebut_DWH...	[28/11/20...	10/15/2020...	no	yes	1	SC_m_SHARED...
s_SHARED_TECH_02_suiviFinOK_DWH...	[28/11/20...	10/15/2020...	no	yes	1	SC_m_SHARED...
s_SHARED_TECH_03_suiviFinKO_DWH...	[28/11/20...	10/15/2020...	no	yes	1	SC_m_SHARED...

Repositories
- PCR_ACME
  - Deployment Groups
  - ACTIVITE_SECTION_001_SID_DSA
  - AGIRA2
  - AI_001_FLUX_RC_687
  - AI_001_LIGNE_CLAIRE
  - ANETO_ECHEANCIERS
  - ANETO_INDUS_NOEMIE
  - ANETO_RIJ
  - BALANCE_CLIENTS
  - EMI_SHARED
  - Extra
  - G020IP10_INTEGRATION_FICHIER
  - G020IP20_REFERENTIEL
  - GGOURI
  - GRC_001_SID_DSA
  - GUICHET_UNIQUE_LOT1_TER
  - G_Demo
    - Sources
    - Targets
    - Mappings
    - Workflows
      - wfl_SID_PORTF_REJETS
      - wf_I_ECH_COLL2_Entite_95
      - wf_I_GU_COMPTEUR_EDITION
      - wf_i_rlv_edition_etat_ac
      - wf_I_SID_PORTF_SIT
      - wf_MKT_DWH1_001
      - wf_s_m_one_time_a
      - w_DWH2_002_01_di
    - Configurations
  - Metadata Load
  - MKT_DWH1_001_OGC
  - MOBILITE_BANCAIRE
  - PC2IICS
  - PTF_017_SID_DSA
  - RVL_001_IMPORT

Context menu:
- ✓ Allow Docking
- Hide
- Properties
- Refresh
- Validate...
- View Dependencies...
- Export

usw1.dmr-us.informaticacloud.com/pc2cloudUI/index.html#/main/Dashboard/6vww11lGACBiht7ECwYUGP

Informatica PC to Cloud Conversion

INFA

Home

G_Demo

Download Report

Summary

23.3%

76.7%

■ Fully Converted
■ Converted with Issues

Folder View

■ Fully Converted ■ Converted with Issues

26
24
22
20
18
16
14
12
10
8
6
4
2

SID_SHARED_DATA_DWH1   SID_SHARED_TECH   G_Demo

Asset View

■ Fully Converted ■ Converted with Issues

11
10
9
8
7
6
5
4
3
2
1
0

MAPPING   SESSION   WORKFLOW

Top Issues

■ NO EQUIVALENT PROPERTY: Mappingname
■ NO EQUIVALENT PROPERTY: Metaextension
■ UNRESOLVED CONNECTION VARIABLE
■ NAME CONFLICT DETECTED: Transformation
■ INPUT PARAMETER CONNECTION TYPE: Input Parameter
■ NO EQUIVALENT PROPERTY: Business Name
■ EXPRESSION TX CREATED FOR UPDT

Assets (30)   All selected ▼

Find

	Name	Type	PC Location	ICS Location	State	Issues
☑	m_SHARED_T...	Mapping	SID_SHARED_TECH	PCR_ACME/SID_SHA...	Published	5 Run Time, 4 Design Time
☑	m_SHARED_T...		...ARED_TECH	PCR_ACME/SID_SHA...	Published	1 Run Time, 3 Design Time
☑	m_SHARED_T...		...ARED_TECH	PCR_ACME/SID_SHA...	Published	2 Run Time, 7 Design Time
☑	wf_I_GU_CO...	Workflow	G_Demo	PCR_ACME/G_Demo	Published	1 Run Time, 0 Design Time
☑	s_SHARED_T...	Session	G_Demo	PCR_ACME/G_Demo	Published	0 Run Time, 0 Design Time

30 selected

Publish

https://usw1.dmr-us.informaticacloud.com/pc2cloudUI/index.html#

Repository   Edit   View   Tools   Layout   Versioning   Mappings

G_Demo - [PCR_ACME]

Import...

SQL Editor - SQ_T_RLV_ETAT_CTRL (Expression)

Ports   Variables

SQL:

- T_RLV_ETAT_CTRL
  - CD_CTR_GESTION
  - CODE
  - DT_CREA
  - DT_ARR
  - UTIL
  - DCP
  - NUM_RO
  - NM_ASS
  - PRN_ASS
  - MONTANT

```
SELECT UNIQUE ODCGCODCGS , PSDPCODCTR, TO_CHAR(PSDPAUDDCR,'DD/MM/YYYY'),
PSDUDATARR ,PSDPAUDUMJ ,
TO_CHAR(PSDUNUMDEM,'00000000') || '-' ||
TO_CHAR(PSDUNUMDOS,'00') || '-' || TO_CHAR(PSDENUMDCP,'00') ,PSEPETENRO ,
PSDENOMASS , PSDEPRNASS , PSDEMNTRCT
FROM psdhistocl@$$DBLNK_aneto B, psdpersicl@$$DBLNK_aneto, psdecompcl@$$DBLNK_aneto,
psepersicl@$$DBLNK_aneto, psdurecucl@$$DBLNK_aneto,ODCGESTCL@$$DBLNK_aneto
WHERE B.psdhopedcp IN
(SELECT MAX(A.psdhopedcp) FROM psdhistocl@$$DBLNK_aneto A WHERE A.PSDHIDFDOS =
B.PSDHIDFDOS
AND A.PSDHNUMDCP = B.PSDHNUMDCP)
AND B.psdhetadcp = 'AC'
AND psdpidfdos = psdhidfdos AND psdpnumdcp = psdhnumdcp
AND psdpidfdos = psdeidfdos AND psdpnumdcp = psdenumdcp
AND psdpidfdos = psepidfdos
AND psduidfsys = psepidfdos
AND PSDPODCGI1 = ODCGIDFSYS
ORDER BY PSDPCODCTR DESC
```

Edit Transformations

Transformation   Ports   Properties

Select transformation: SQ SQ_T_RLV_ET

Transformation type: Source Qualifier

Transforma

Sql Query	
User Defined Join	
Source Filter	
Number Of Sorted Ports	
Tracing Level	
Select Distinct	
Pre SQL	
Post SQL	
Output is deterministic	
Output is repeatable	

Sql Query

User-defined SQL statement

Instance Name: **T_RLV_ETAT_CTRL**

Transformation Type: **Source Definition**

Connect to database:

ODBC data source: Sample Informatica Cassandra DSN (Informatica Cassandra ODBC Driver)

Use Kerberos Authentication

OK

Cancel

Metadata Load
MKT_DWH1_001
MOBILITE_BANC
PC2IICS
PTF_017_SID_DSA
RVL_001_IMPORT

Extra
G020IP10_INTEG
G020IP20_REFER
GGOURI
GRC_001_SID_DS
GUICHET_UNIQU
G_Demo
  Business
  Sources
  Targets
  Cubes
  Dimension
  Transform
  Mapplets
  Mappings
  User-Def

Detail_Etat_R
AC (Flat File)

Detail_Etat_R
AC1 (Flat File)

Entete_Etat_
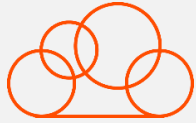VAC (Flat File)

Entete_Etat_
VAC1 (Flat Fi

Type here to search

12:27 PM
2/8/2021

Informatica Data Integration ∨

INFA ∨

New...

Home

Explore

Bundles

My Jobs

My Import/Export Logs

m_i_rlv_edition_etat...

m_i_rlv_edition_etat_ac   ✓ Valid

Save   Run

Design   OFF

Source

Target

SQ_T_RLV_ETAT_CTRL   FX_POST_SQL   FX_POST_SQL_TO_FX_F
ORMAT_DATA_EXPR

Properties   Preview   SQ_T_RLV_ETAT_CTRL

General

Source

Fields

Partitions

▼ Details

Connection: SQ_T_RLV_ETAT_CTRLSrcParameter ▼   View...   New Connection...   New Parameter...

Source Type: Query ▼

Query: Edit Query...

SELECT UNIQUE ODCGCODCGS , PSDPCODCTR, TO_CHAR(PSDPAUDDCR,'DD/mm/YYYY'), PSDUDATARR ,PSDPAUDUMJ ,
TO_CHAR(PSDUNUMDEM,'00000000') || '-' ||
TO_CHAR(PSDUNUMDOS,'00') || '-' || TO_CHAR(PSDENUMDCP,'00') ,PSEPETENRO ,
PSDENOMASS , PSDEPRNASS , PSDEMNTRCT
FROM psdhistocl@$$DBLNK_aneto B, psdpersicl@$$DBLNK_aneto, psdecompcl@$$DBLNK_aneto, psepersicl@$$DBLNK_aneto,

▶ Query Options

▶ Advanced

Resources to support your journey

Informatica

Informatica Success Portal

Upgrade Planner:
Plan your product
upgrades

Tailored Training
& Content
Recommendations
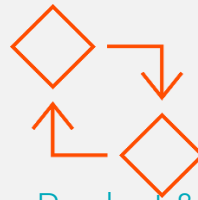
Product &
Outcome Based
Learning Paths

Implementation
Specific
Solution Accelerators

Tech Tuesdays:
Weekly
Expert Sessions

Click to add text

Informatica | Success Portal

Home   Explore ⌄   Product Learning Path   Login   SIGN UP

Success Portal › IICS Primer for PowerCenter Developers

IICS Primer for PowerCenter Developers

Power your business with our Intelligent Informatica Cloud Service

IICS Primer   Get Started: IICS Primer

Overview

https://success.informatica.com/iics-primer-for-powercenter-developers.html

- Seamless Onboarding
- Know Your Success Team
- Proven Templatized Success

- Superior Experience
- Faster ROI
- Accelerated Learning

PowerCenter to IICS Modernization Content/Resources

1. [Modernization Resource Hub](#)

2. [Customer-Snowflake-Accenture Summit](#)

3. [White Paper](#)

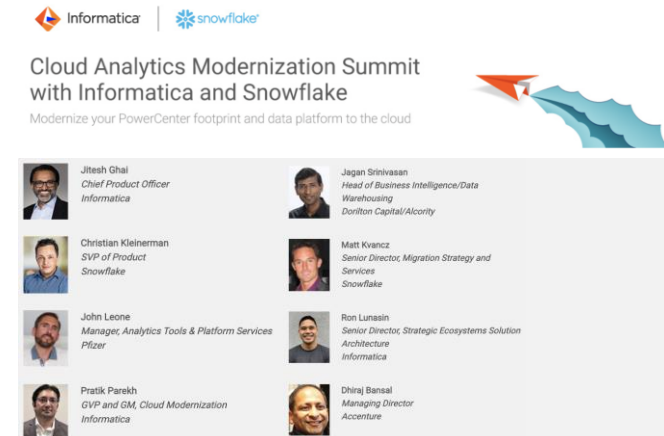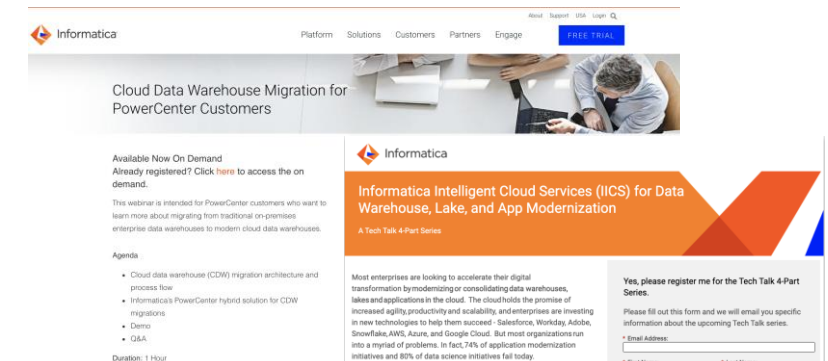4. [Solution Brief](#)

5. [Webinar](#)

Webpage for Prospects
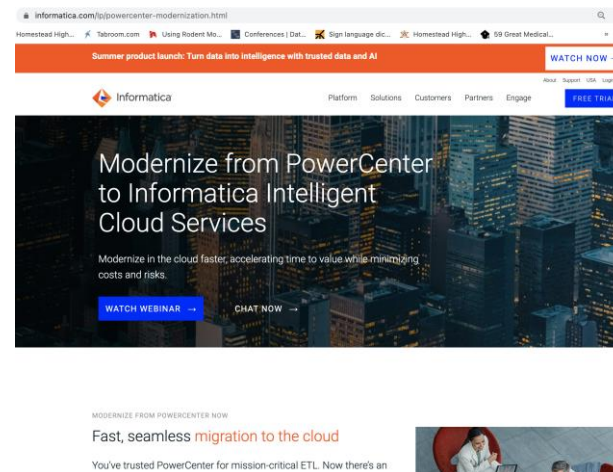
Brochures, White Papers
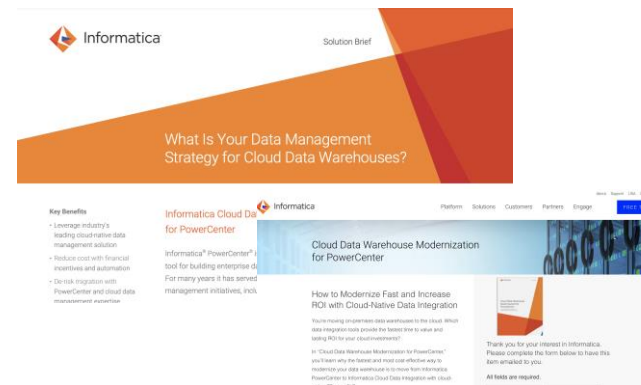
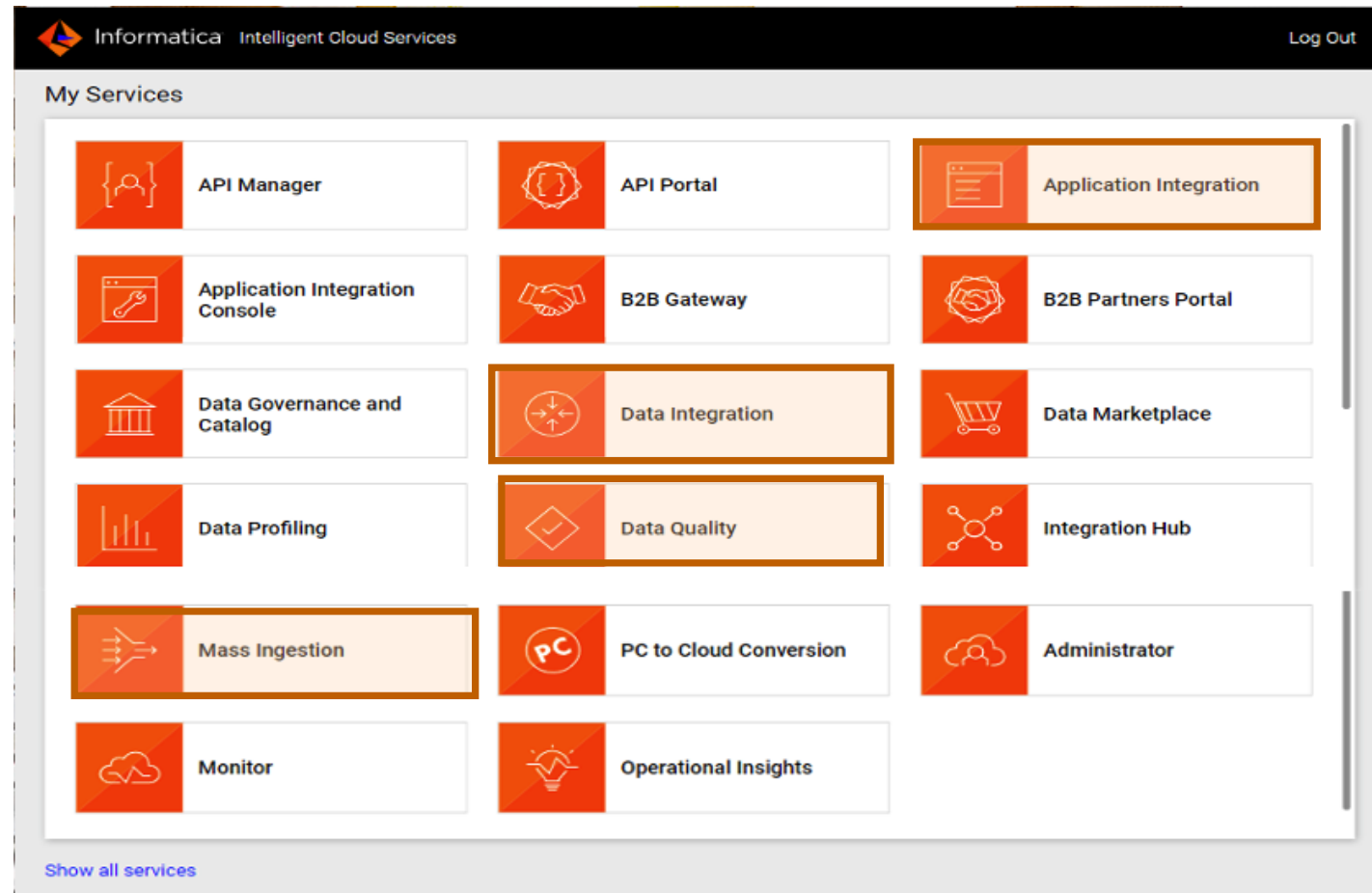Cloud Analytics Modernization Summit

Webinars

Summary.....

Oh, just one more thing!

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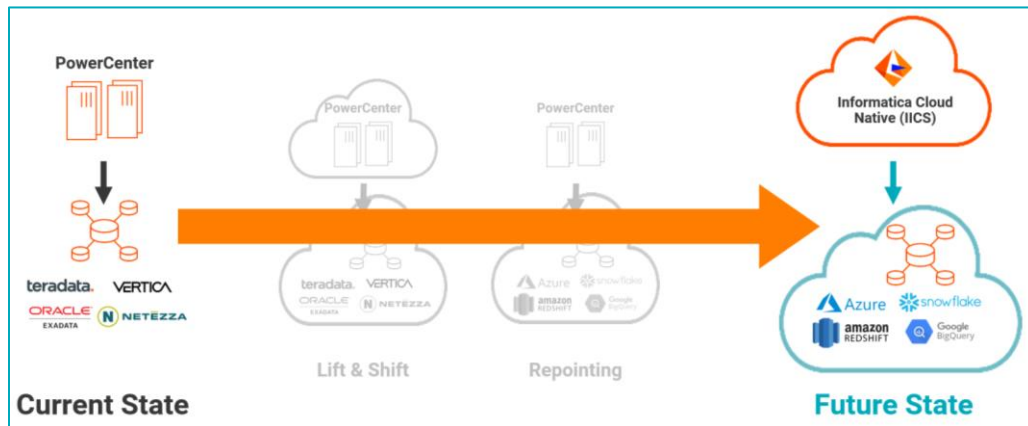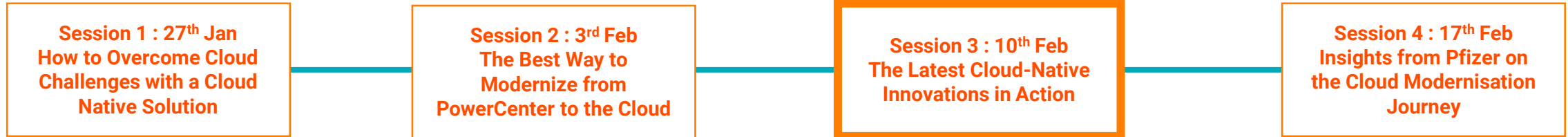
Address Any Cloud Modernization Need

Access ALL Integration and Quality Services

Summary

PowerCenter to IICS Modernization Program

This Webinar Series: PowerCenter Users: Architect Your Future to the Cloud

Session 1 : 27th Jan How to Overcome Cloud Challenges with a Cloud Native Solution	Session 2 : 3rd Feb The Best Way to Modernize from PowerCenter to the Cloud	Session 3 : 10th Feb The Latest Cloud-Native Innovations in Action	Session 4 : 17th Feb Insights from Pfizer on the Cloud Modernisation Journey

On-premises	→	Cloud Native
Annual Maintenance on a perpetual license	→	Annual Subscription for Software as a Service
Fixed amount of processing cores	→	Usage based model
Fixed set of products and options	→	Remixable set of services
Customer provided and managed infrastructure	→	Multi-tenant microservices based architecture managed by Informatica

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Thank You

Steve Holyer
Informatica Cloud Specialist, Informatica

Rick Mutsaers
Principal Architect, Informatica

For more information, please contact your Account Representative or your Customer Success Manager.

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