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# Informatica Data Quality & Observability

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# Consistent Data Quality Process and Methodology



# Informatica Cloud Data Quality

## Profile



Turn by turn directions for data management instead of "heading west"

## Validate

- ✓ Currency code must be consistent with country code
- ✓ Employee ID must be unique
- ✓ If customer tier is bronze, then max credit is 1000
- ✓ All ICD10 codes must have a verified description

## Standardize

Example 1: KitKat  
Kit-Cat  
Kit Kat } **Kit-Kat**

Example 2: North Central  
Midwest  
Great Lakes } **Central**

## Fuzzy Lookup/Match

### Source Data

Land O Lakes

Biluxi

KitKat

### System of Record

Land O'Lakes

Biloxi

Kit-Kat

## Parse

**Text Data:** Call Center Comments, Social Media, Product Descriptions

I love my Pink 64GB iPad Pro!!!

Color	Size	Product	Model
Pink	64 GB	iPad	Pro

## Enrich

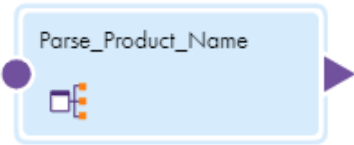
AddressL1: 1008 Avenue of the Americas  
 AddressL2: Suite 7  
 City: New York  
 State: NY  
 Zip Code: 10018-5402  
 Longitude: 40.7325525  
 Latitude: -74.004970

# Hand Coding Data Quality Is Time Consuming, Error Prone, Hard to Maintain, and Does Not Scale

## Parse Product Description

```

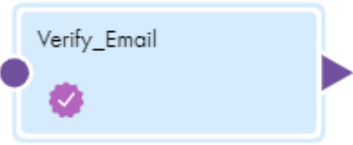
my_string = 'Names: Widget, Cog
# split the string at ':'
step_0 = my_string.split(':')
# get the first slice of
the list
step_1 = step_0[1]
# split the string at ','
step_2 = step_1.split(',')
# strip leading and trailing edge
spaces of each item of the list
step_3 = [name.strip() for name in step_2]
# do all the above operations in one go
one_go = [name.strip() for name in
my_string.split(':')[1].split(',')]
for idx, item in enumerate([step_0, step_1,
step_2, step_3]):
print("Step {}: {}".format(idx, item))
print("Final result in one go: {}".format(one_go))
    
```



## Verify Email

```

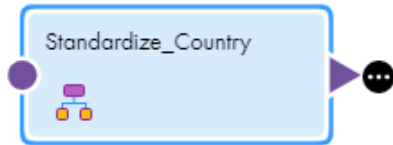
NOT(REGEX( Custom_Email_Field__c , '([a-zA-
Z0-9_\-\.]+\.)@((\[[a-z]{1,3}\. [a-z]{1,3}\. [a-
z]{1,3}\.))|((\[[a-zA-Z0-9_\-]+\.)))([a-zA-
Z]{2,4}|[0-9]{1,3}))')
    
```



## Standardize Country

```

IIF(OR(UPPER(Country)="UNITED STATES OF
AMERICA", UPPER(Country)="US OF
A"), "USA", IIF(OR(UPPER(Country)="UK", UPPER
(Country)="GREAT BRITAIN"), "United
Kingdom", IIF(UPPER(Country)="OZ", "Australia",
Country)))
    
```

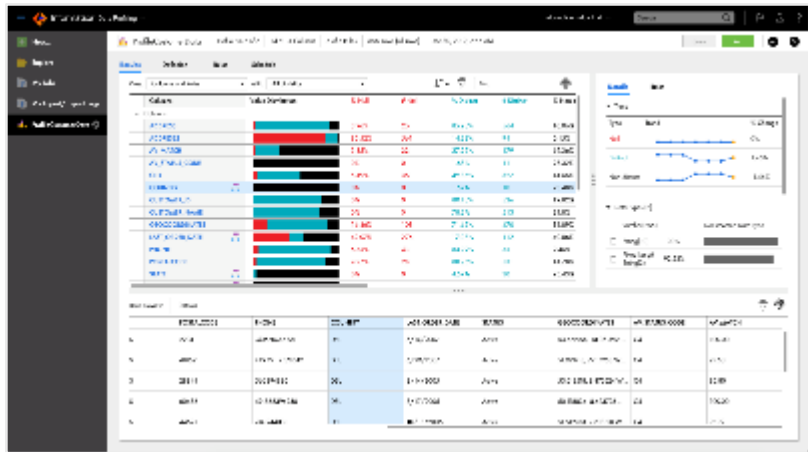


Standardized	Variation_1	Variation_2	Variation_3
USA	United States	US	America
United Kingdom	Great Britan	UK	



# Data Quality Collaboration

**1** Automatically identify all data variations and build dictionary

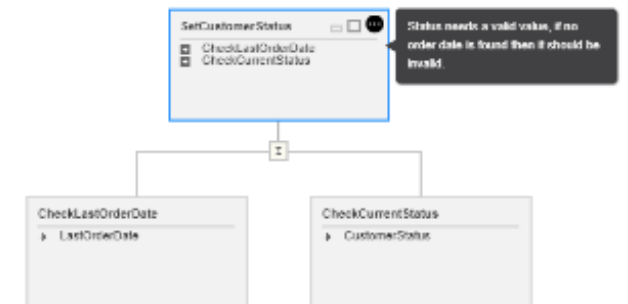


**2** Business Analysts own/ update the dictionary and define business rules

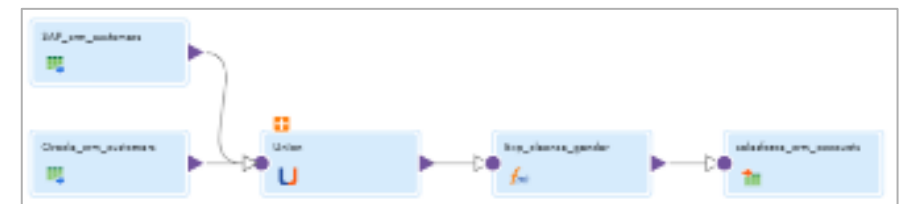


A screenshot of the 'colors\_info' dictionary configuration in Informatica. It shows a table with 5 columns: 'Column 1', 'Column 2', 'Column 3', 'Column 4', and 'Column 5'. The table contains two rows of data:

	Column 1	Column 2	Column 3	Column 4	Column 5
338	Cobalt	Cobalt	CBL	CBT	COB
339	Copper	Copper	CPR	COO	



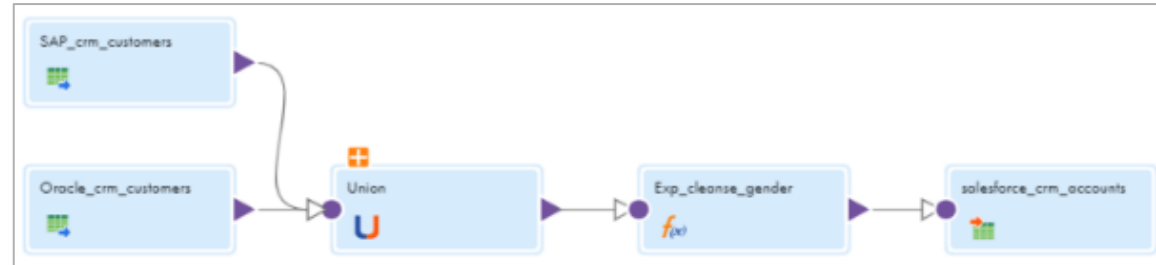
**3** Data Engineers and Data Pipelines reference Dictionaries and rules



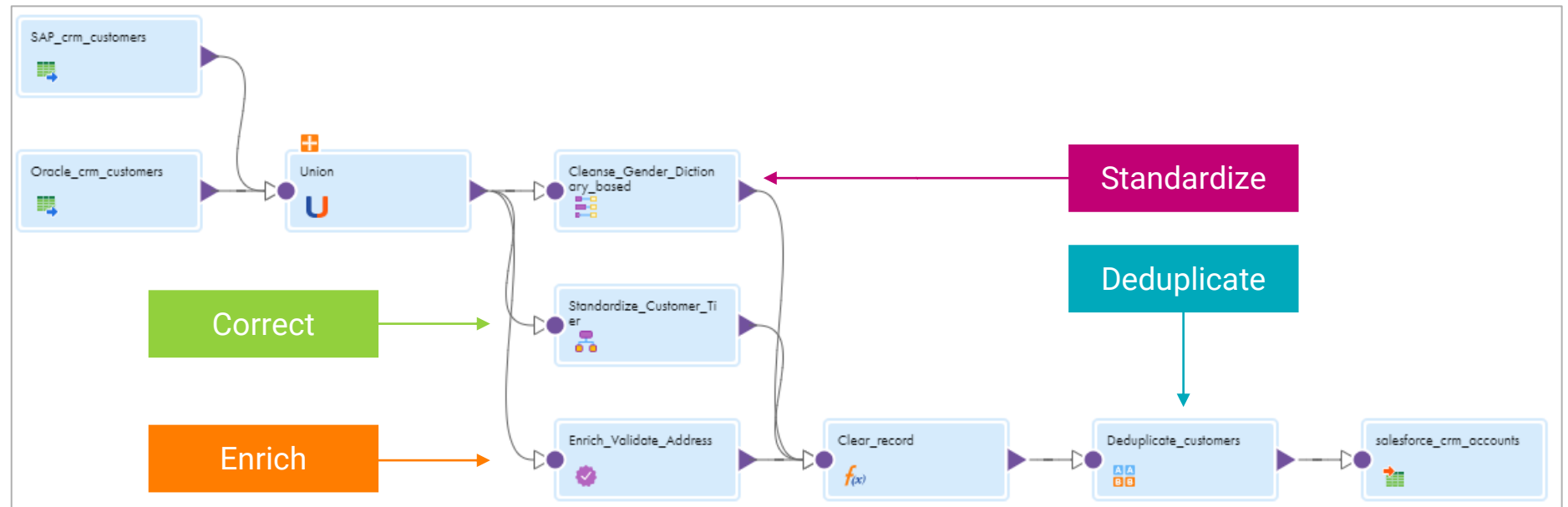
# Drag and Drop No Code Data Quality into Your Pipeline

## Quickly Identify & Resolve Data Inconsistencies With Integrated Cloud Data Quality

Data Pipeline:  
Integration only



Data Pipeline:  
Integration and  
Data Quality



# Hundreds of Out-of-the-Box Accelerators

## Rules, Dictionaries, Verifications and Mapplets



Dictionaries

Name ▲	Type
character_sets	Dictionary
diacritics_translate_info	Dictionary
domain_names_info	Dictionary
dq_av_mailabilityscores_info	Dictionary
dq_av_match_code_descriptions_i...	Dictionary
iso_full_country_name_info	Dictionary
numeric_default_values_info	Dictionary
string_default_values_info	Dictionary
suspect_names_info	Dictionary
user_defined_dates_info	Dictionary



Cleanse

Name	Type
c_SSN_Max_Index_For_Group	Cleanse
c_Standardize_rplce_Back_Slas...	Cleanse
c_standardize_rplce_bck_slash...	Cleanse
c_Std_Name	Cleanse
c_std_terms_mplt_association	Cleanse
c_Titlecase	Cleanse
c_Uppercase	Cleanse
c_US_Company_Name_Std	Cleanse
c_US_FullName	Cleanse
c_US_Get_Company_Acronym	Cleanse



Deduplicate

Name ▼	Type
dedupe_USA_Address_Match	Deduplicate
dedupe_US_IMO_Personal_Nam...	Deduplicate
dedupe_US_IMO_Match_Compa...	Deduplicate
dedupe_US_IMO_Indiv_Name_A...	Deduplicate
dedupe_US_IMO_Fam_Name_A...	Deduplicate
dedupe_CompanyName_Match	Deduplicate
dedupe_BRA_Match_Name_Perso...	Deduplicate
dedupe_BRA_Match_Indiv_Name...	Deduplicate
dedupe_BRA_Match_Company_a...	Deduplicate
dedupe_BRA_Individual_Name_a...	Deduplicate



Parse

Name	Type
p_Parse_SSN	Parse
p_Parse_US_FullName	Parse
P_ParseFullName	Parse
p_SSN_metrics_to_ind_fields	Parse
p_SSN	Parse
p_Suspect_Names	Parse
p_Text_btwn_Parentheses	Parse
p_Text_btwn_Single_Quotes	Parse
p_top_level_domain	Parse
p_usa_gender_assignemn...	Parse



Validate

Name ▼	Type
v_USA_Validation_Discrete_Addre...	Verifier
v_USA_Validation_Discrete_Address	Verifier
v_USA_AddressValidation_Multiline	Verifier
v_USA_AddressValidation_Geo_...	Verifier
v_US_AddressValidation_Hybrid	Verifier
v_US_AddressValidation_Hyb_w_...	Verifier
v_CAN_AddressVerification_Hybrid	Verifier
v_BRA_Validation_Discrete_Addre...	Verifier
v_BRA_Validation_Discrete_Address	Verifier
v_BRA_Parse_Multiline_Address_...	Verifier

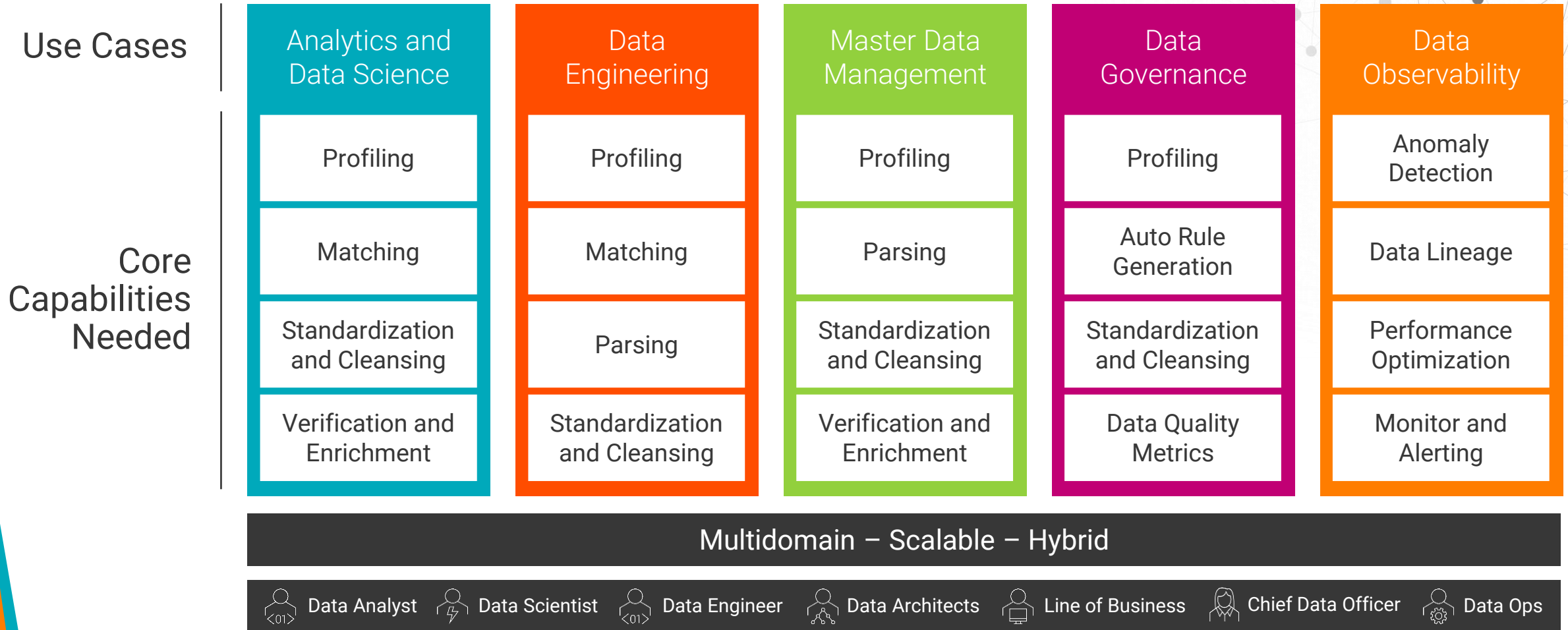
# DEMO

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# Data Quality for Everyone, Everywhere



# The Value



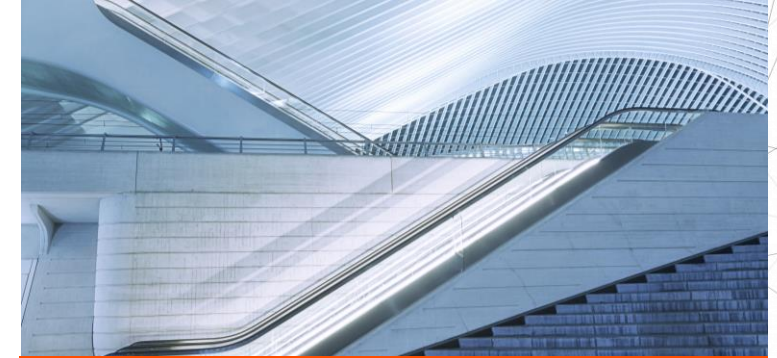
## Reduce Risk

A data quality strategy identifies issues early and allows you to resolve them faster, ensuring projects are not delayed



## Accelerate Development

Low-code / no-code data profiling, cleansing, standardization and enrichment within a familiar development environment



## Scale & Reuse

Build, deploy, scale and re-use centrally manages data quality services to support all applications and data pipelines

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- My Role is
- My Cloud Service Provider is
- Our Newest Demos
- Most Popular Demos

**Cloud Data Quality**

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