

Data preparation made easy!

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Sandbox Environment

URL:

<https://sb1.bluera.com/sb1>

Username: your email

Password: **Blue2017**

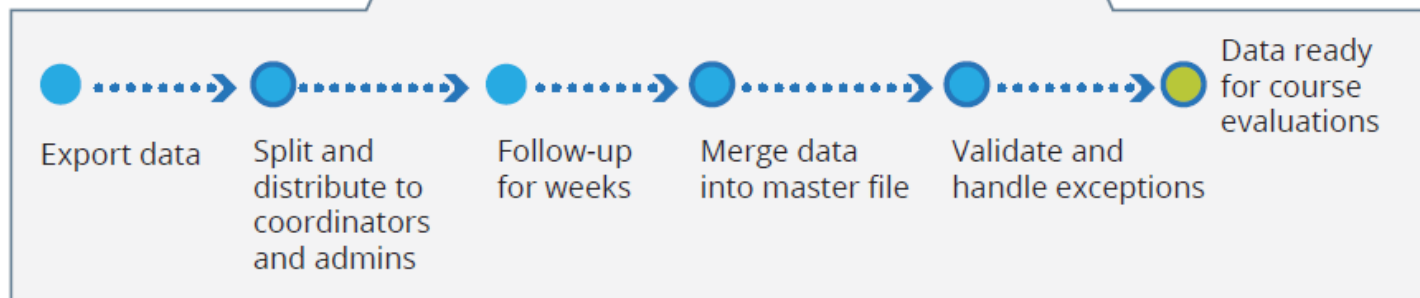
Agenda

- Why use DIG
- Data structure and flow
- DIG Definition
- DIG Project
- Datasoure Rules
 - Add/Remove records
 - Merge & Split records
- Record Rules
 - Modify records
- Publish and Manage DIG Project
- Configurations for the evaluation project

DIG IN ACTION - COURSE EVALUATION PREPARATION

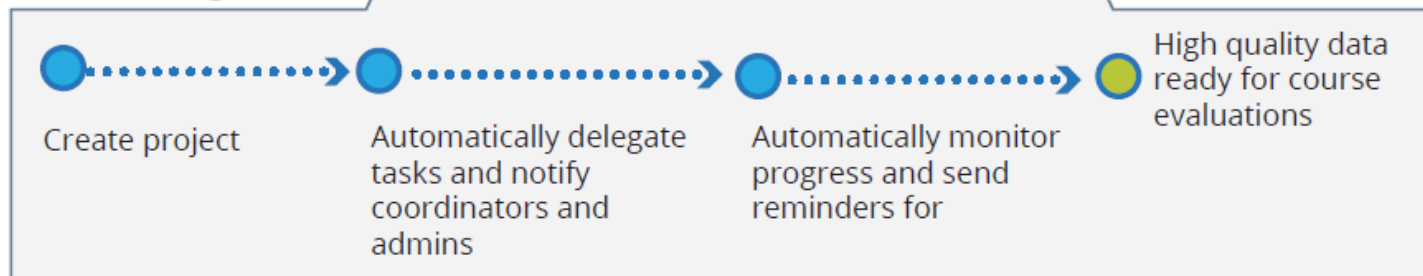
BEFORE:

7 WEEKS OF MANUAL PREPARATION TIME



AFTER (using DIG):

2 WEEKS OF AUTOMATED WORKFLOWS



Life with & Without DIG

Data
Preparation

Evaluation

Analysis

Action



Data Preparation

Evaluation

Analysis

Action

You can use DIG to:

MAINTAIN INTEGRITY
Ensure enrollment data is accurate, up-to-date, and error-free.

EXPAND DATA
Add additional data to expand current data set.

AUTOMATE PROCESSES
Automate data integrity projects from start-to-finish.

ENRICH ANALYTICS
Leverage complete, valid data for new insights.



Data Integrity Gateway (DIG)

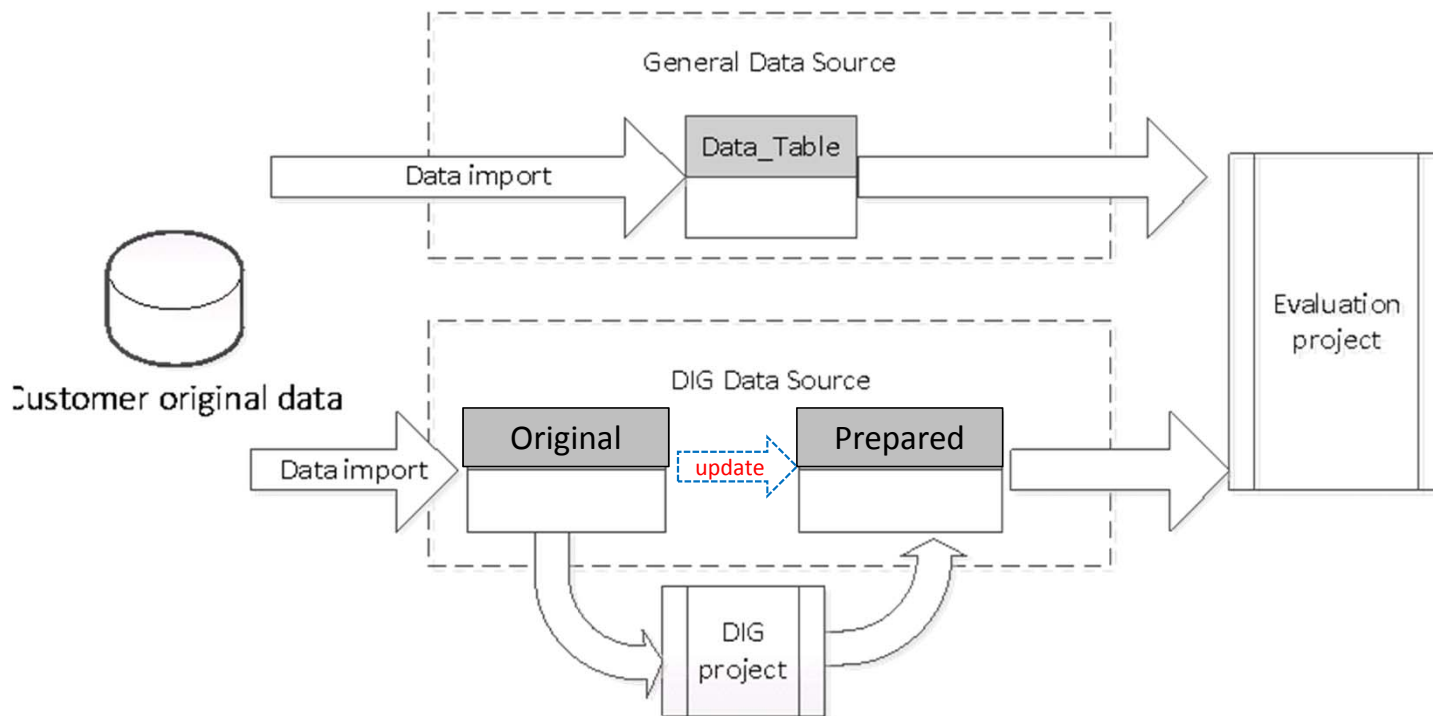
Solution data preparation needs

- Clean errors in data before the feedback process
- Add missing data before the feedback process

Features

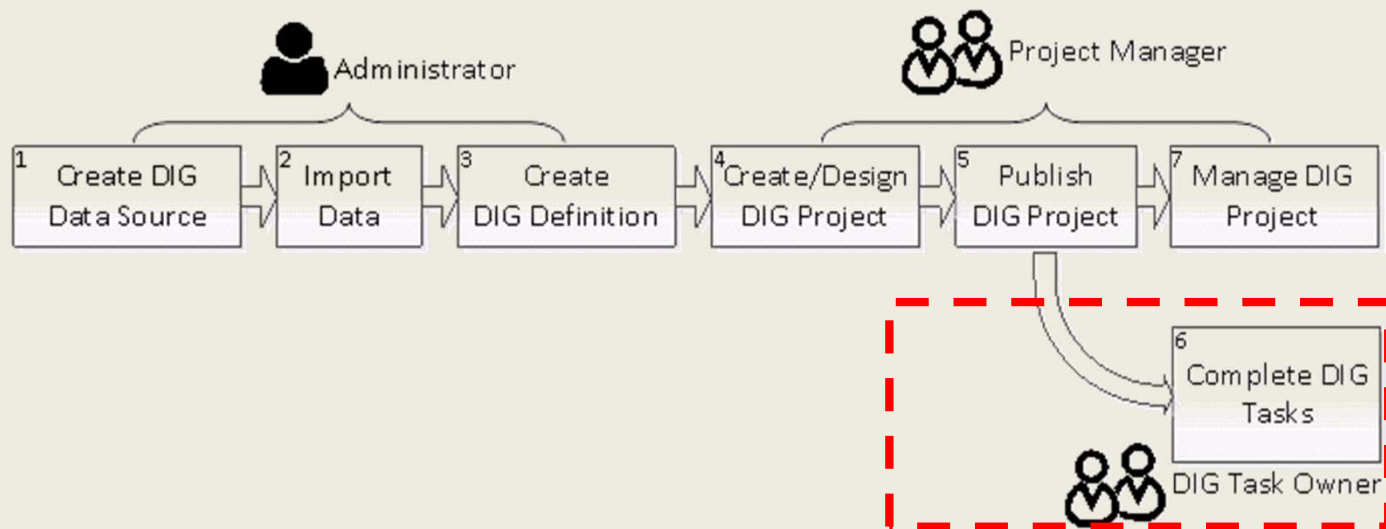
- Delegate the tasks to the responsible people
- Set automatic follow-up emails and dynamic end dates
- Setup validation rules
- Automatically refresh the data
- Automatically transform push the data to the evaluation project once it is ready

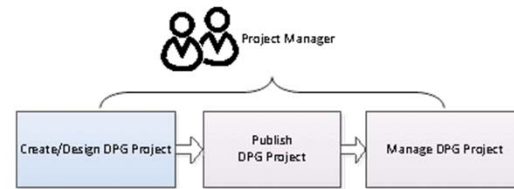
DIG Data Structure and Flow



- Prepared records are **automatically updated** by the original data.
- **Prevent update** can be applied on fields in prepared data if the record has been **saved** or **published**

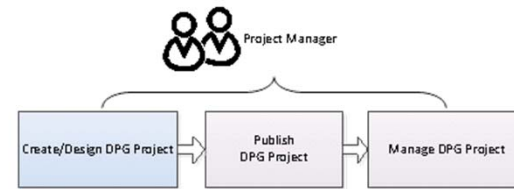
• DIG Concept & Workflow





○ DIG in Blue – Rule Overview

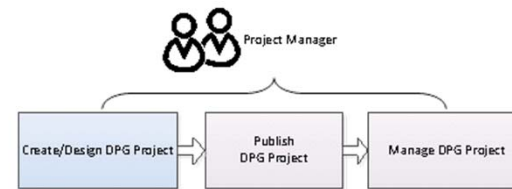
Datasource				Record	
Primary Subject		Secondary Subjects		Primary Subject	Secondary Subjects
Split	Merge	Add/Remove	Allow new	String (i.e. name, email, photo, language)	Integer/ Number (i.e. age,credit) Date <input type="checkbox"/> Regular Expression <input type="checkbox"/> Min/Max Characters <input type="checkbox"/> Range of numbers or dates <input type="checkbox"/> List of items
<input checked="" type="checkbox"/> Random	<input checked="" type="checkbox"/> Random		<input checked="" type="checkbox"/> Random		
<input checked="" type="checkbox"/> Sequential	<input checked="" type="checkbox"/> Combine				



○ DIG in Blue – Record - Rule

Record	
Primary Subject	Secondary Subjects
String (i.e. name, email, photo, language)	
Integer/ Number (i.e. age, credit)	
Date	
<input type="checkbox"/> Regular Expression <input type="checkbox"/> Min/Max Characters <input type="checkbox"/> Range of numbers or dates <input type="checkbox"/> List of items	

Rule	Description	Object
Regular	If define a REG-EXP for a field, when task owner modify row value in this field, DTG will validate the result based on this REG-EXP.	A string field
String	Give minimum and/or maximum characters number of a string field.	A string field
List	List all eligible values. Task owner input value can only be one of the list items.	A string field
Min/Max Number Range	Give minimum and/or maximum number for a numerical field.	A numerical field
Min/Max Date Range	Give earliest and/or latest date for a date-time field	A date-time field



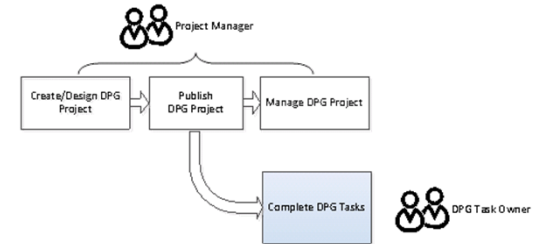
○ DIG in Blue – Record – Regular Expression

A regular expression is a pattern that the regular expression engine attempts to match in input text. A pattern consists of one or more character literals, operators, or constructs

* Source: [https://msdn.microsoft.com/en-us/library/az24scfc\(v=vs.110\).aspx](https://msdn.microsoft.com/en-us/library/az24scfc(v=vs.110).aspx)

EXAMPLE

	Regular Expression	Valid	Invalid
Email	<code>^\w+([-+.]\w+)*@\w+([-.]\w+)*\.\w+([-.]\w+)*\$</code>	test@exp.com	test.exp.com test@exp
Customize d	<code>\[CHAR\$d{1,3}\]</code>	[CHAR\$12]	[ABC\$12] [CHAR\$1233254] [CHAR\$ABC]



○ Data sources fields prevent updates

Admin

- Connection
- SSO Profiles
- Data Sources**
- Definitions
- Configuration
- Activity Logs
- User Mgmt
- Dictionary Mgmt
- Preferences
- Backup
- Sign Out

Name: d

Description: (Alphanumerical characters only, no spaces allowed)

Type: Primary Required Data Block

Import Option: Overwrite Update

Connection: SQL Server

ServerInstance: localhost

Database: testdata

Table/View: DTG_Course

User Name: sa

Password: ****

[Connect](#)

Fields

Field Name	Data Type	Caption	Select	Prevent Updates
CourseID	String	CourseID	<input checked="" type="checkbox"/>	<input type="checkbox"/>
CourseName	String	CourseName	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Campus	String	Campus	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Mode	String	Mode	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Discipline	String	Discipline	<input checked="" type="checkbox"/>	<input type="checkbox"/>
School	String	School	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Prevent data fields to be overwritten by imports form IS after save or publish in DIG project

○ Configuration for Evaluation Project

- You can configure the subject filter in the evaluation project to only include subjects that are published by a DIG project by using the “Transformed” field.
 - Set the filter to Transformed is Yes.

