

sage Partner Summit

Technical Fundamentals

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Contents



At the end of this session, you will be able to:

Describe terminology and concepts related to the Sage Intacct application

Compare technical Sage Intacct services, including:

- Customization Services
- Platform Services
- Web Services
- Data Delivery Service

Explain different examples of solutions

Customization Services and Platform Services

Customization Services



Customizations on standard Sage Intacct objects

- Vendor
- Employee
- AP Bill

Low-code / step wizard-based

Custom fields

Custom reports

Smart events

Smart links

Smart rules

Custom packages

Smart Rules



Used to enforce business logic

- Throw errors, or
- Display warnings

Write condition for rule, not exception

Ternary operators good for exceptions

Examples:

- Bill line account = 7300 must have department = ADM
- Display a warning if project's reference number field is blank
- Block a specific user from editing vendors

Smart Rule Example

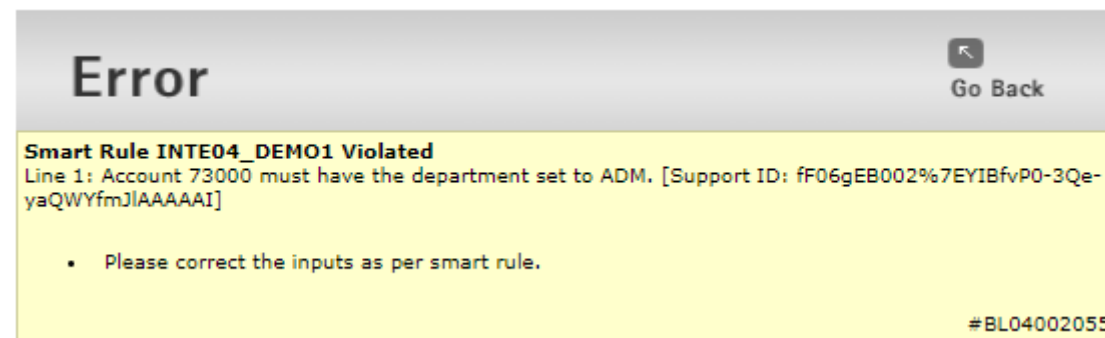


Condition:

```
{!APBILLITEM.ACCOUNTNO!} == '73000' && {!APBILLITEM.DEPARTMENTID!} != 'ADM' ? false : true
```

Error Message:

Line {!APBILLITEM.LINE_NO!}: Account {!APBILLITEM.ACCOUNTNO!} must have the department set to ADM.



Smart Events



Different event types:

- Send email
- Execute HTTP request to external URL
- Create log entry
- Execute Sage Intacct API function

Events are all executed asynchronously
(offline)

Offline events are fire and forget, no error
logging

Examples:

- Send email when bill over \$500 created

Smart Event Example



Update Sales Order “New Business” custom field if the customer has been created within the last 6 months

- Owner Object: Order Entry Transaction
- Type: Sales Order
- Action: API
- Events: Add,Set
- Condition:
(`{!SODOCUMENT.CUSTOMER.START_DATE!}` >
`pastdate(6,"month")`)

- API Body:

```
<update_sotransaction key="{!SODOCUMENT.DOCID!}">
  <customfields>
    <customfield>
      <customfieldname>NEW_BUSINESS</customfieldname>
      <customfieldvalue>true</customfieldvalue>
    </customfield>
  </customfields>
</update_sotransaction>
```


Smart Event Example



Date *

09/05/2018

Customer

C1234--Louis Sterio

Project

Document number

SO-0044

Bill to *

Sun Microsystems - La Jolla

sevans@intacct.com

Ship to *

Volume Reseller(CC1234)

--

Payment terms

Net 30

Ship date *

10/05/2018

Reference

POH TEST 2

Message

Ship via

UPS

Attachments ?

State

Pending

Customer Tax ID

Header Department

Sales

Sales Rep

☒ New Business

Smart Links



Link types:

- Click
- Fetch

Limited to HTTP GET

Only visible on record view page, or
Dashboard component

Examples:

- Customer/Vendor Google Maps link
- Link to external storage system

Smart Link Example



Google Map Example of a Smart Link on a Customer Record

- Smart Link will live on customer main page
- Smart Link URL:
 - <https://www.google.com/maps/place/{!CUSTOMER.DISPLAYCONTACT.MAILADDRESS.ADDRESS1!},{!CUSTOMER.DISPLAYCONTACT.MAILADDRESS.CITY!},{!CUSTOMER.DISPLAYCONTACT.MAILADDRESS.STATE!}+{!CUSTOMER.DISPLAYCONTACT.MAILADDRESS.ZIP!}/>
 - Only Accessible in view mode

Smart Link Example



Customer

ID ?

C1234

Name

Louis Sterio

Last invoice date

None

Last statement date

None

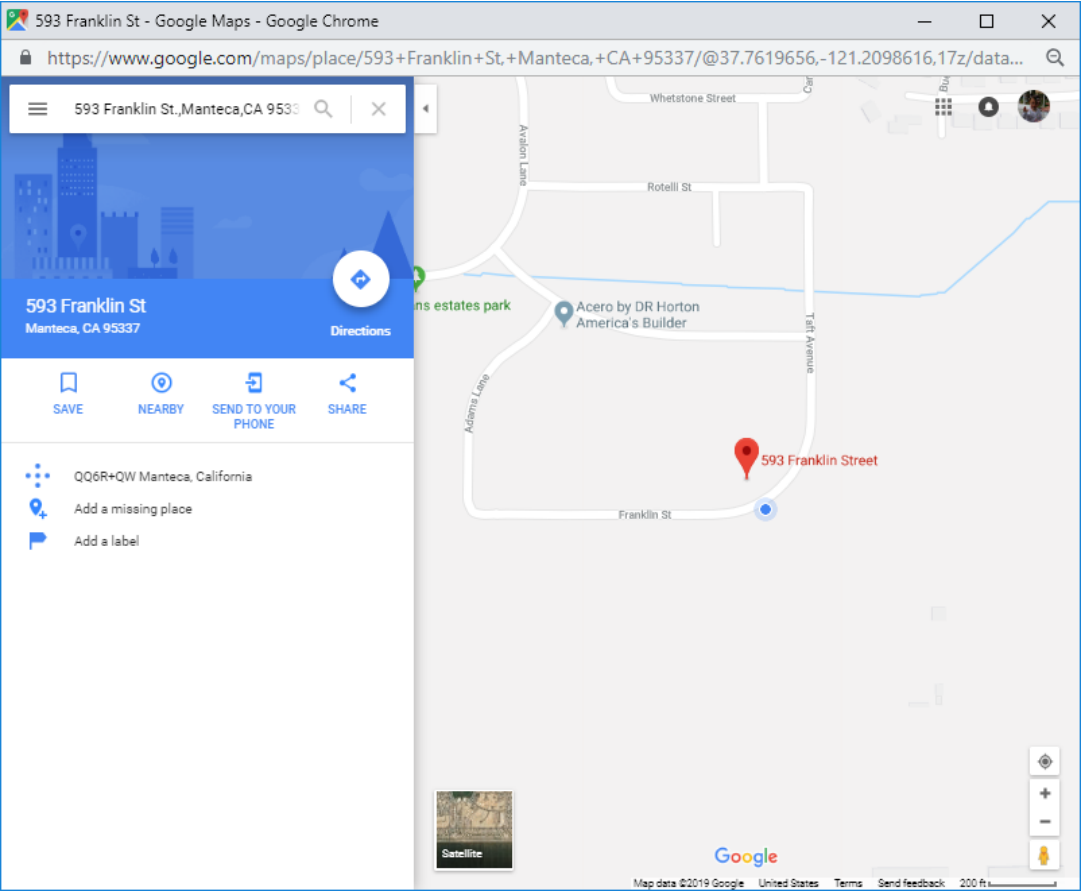
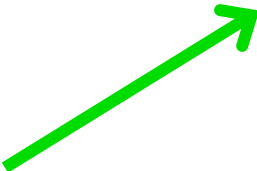
☐ One-time use ?

Status

Active

New Customer Type ID

 [Google Address Map](#)



Platform Services



Extensions of Sage Intacct

Replaces Customization Services

Low-code

- Can get very complex

Objects

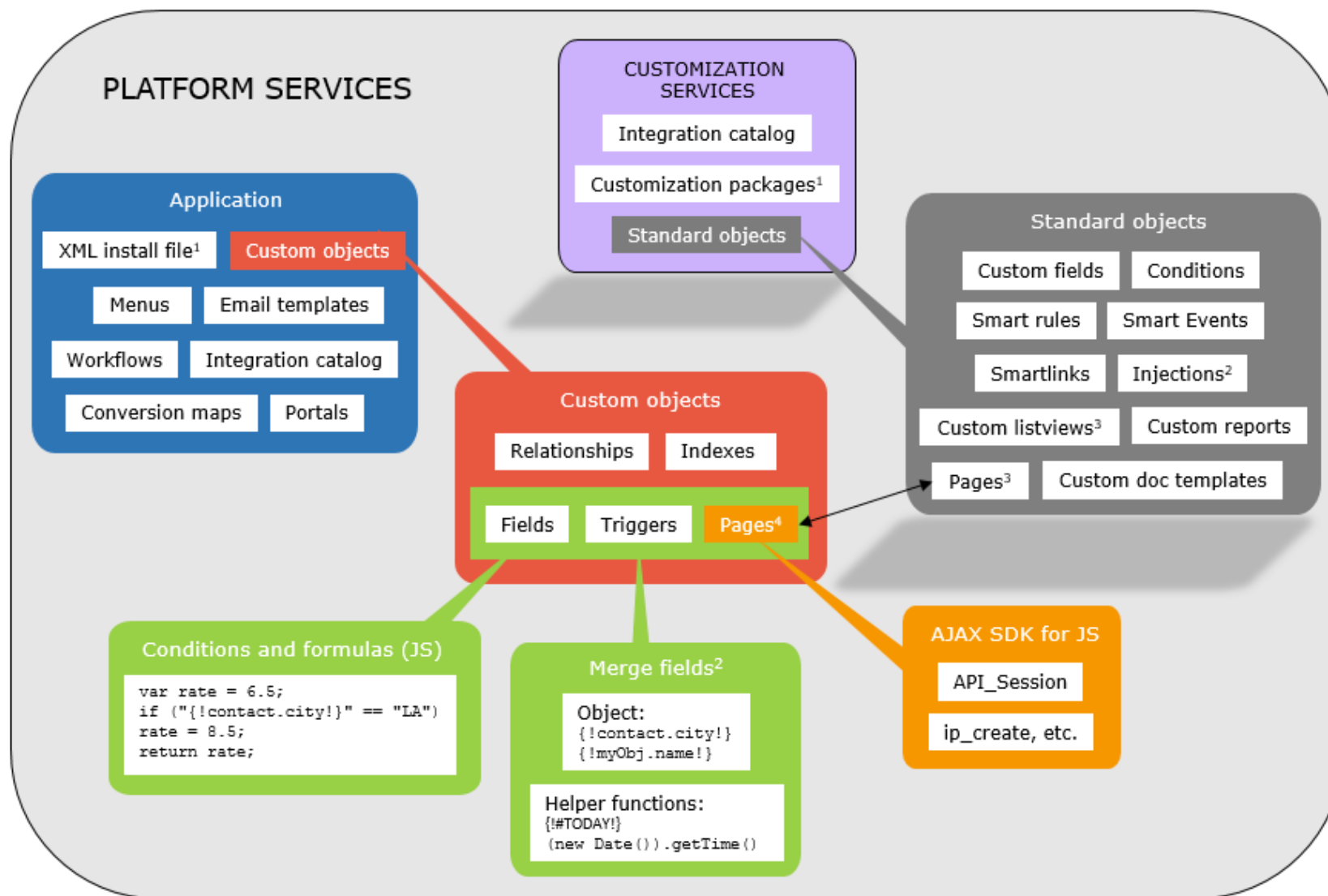
Pages

Menus

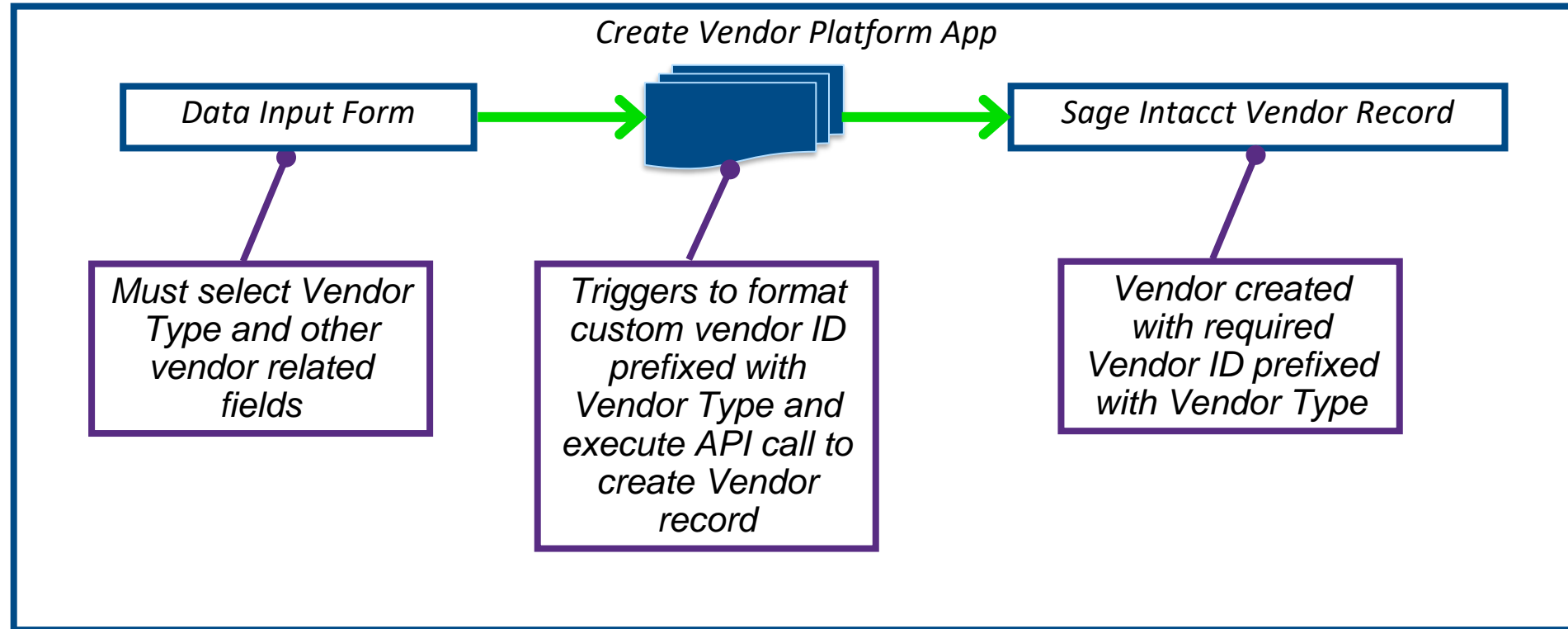
Portals

Applications

Components of Customization Services



Platform Services Application Example



Packages vs Applications



Custom Packages

- Customization Services
- Contain:
 - Custom fields
 - Custom reports
 - Smart events
 - Smart links
 - Smart rules
- Managed

Applications

- Platform Services
- Contain:
 - Objects
 - Pages
 - Menus
 - Portals
 - Standard object customizations
- Unmanaged or managed

Application Programming Interface and Web Services

Application Programming Interface (API)



Not a subscription in Sage Intacct

Functions you can execute

Primarily XML-based

Has “clients” that use it:

- Web Services XML gateway
- Smart Events
- Platform Services triggers
- Platform Services AJAX gateway
- CSV imports



```
<create>
  <VENDOR>
    <VENDORID>V1234</VENDORID>
    <NAME>Intacct Corp</NAME>
    <DISPLAYCONTACT>
      <PRINTAS>Intacct Corporation</PRINTAS>
    </DISPLAYCONTACT>
  </VENDOR>
</create>
```

```
<update>
  <EMPLOYEE>
    <RECORDNO>12</RECORDNO>
    <TITLE>CEO</TITLE>
  </EMPLOYEE>
</update>
```

```
<readByQuery>
  <object>APBILL</object>
  <fields>*</fields>
  <query></query>
  <pagesize>100</pagesize>
</readByQuery>
```

Web Services



Wrapper of API functions

Subscription in Sage Intacct

XML gateway entry point

External facing

- <https://api.intacct.com/ia/xml/xmlgw.phtml>

Protected by sender and user credentials

Two versions: v2.1 and v3.0

Not REST or SOAP

```
<request>
  <control>
    <senderid>{{sender_id}}</senderid>
    <password>{{sender_password}}</password>
    <controlid>{{timestamp}}</controlid>
    <uniqueid>>false</uniqueid>
    <dtdversion>3.0</dtdversion>
    <includewhitespace>>false</includewhitespace>
  </control>
  <operation>
    <authentication>
      <sessionid>{{temp_session_id}}</sessionid>
    </authentication>
    <content>
      <function controlid="{{guid}}">
        <readByQuery>
          <object>VENDOR</object>
          <fields>*</fields>
          <query></query>
          <pagesize>100</pagesize>
        </readByQuery>
      </function>
    </content>
  </operation>
</request>
```

API function

Data Delivery Service

Data Delivery Service



Designed for data warehousing

Select objects in Sage Intacct (not all)

Generates CSV flat files

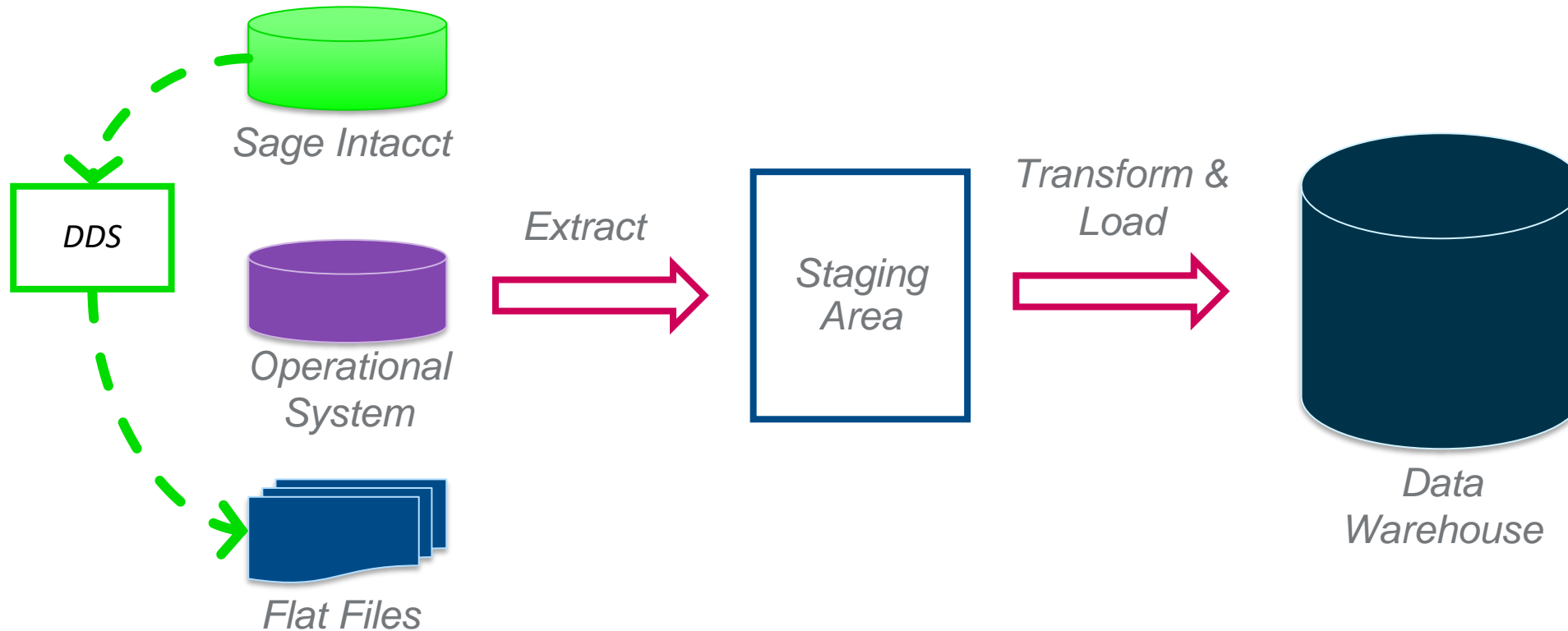
- All object records, or
- Changed object records (insert, update, delete)

Files delivered to cloud storage (AWS S3, Box, HTTPS, Google Drive, etc.)

Scheduled or on-demand

Extract, Transform, Load (ETL)

sage



CSV Files Example



aws

Services

Resource Groups

Louis Ste

Amazon S3 > ddstestlouis > clientA > GA-Louis-SalesDemo

Overview

Q

Type a prefix and press Enter to search. Press ESC to clear.

Upload

+ Create folder

Download

Actions

US West

<input type="checkbox"/>	Name	Last modified	Size	Storage class
<input type="checkbox"/>	AP_AR_REL.all.3.2018-07-26_16.55.01_UTC_00000.csv	Jul 26, 2018 9:55:05 AM GMT-0700	186.0 B	Standard
<input type="checkbox"/>	AP_BS.all.4.2018-07-26_16.57.15_UTC_00000.csv	Jul 26, 2018 9:57:17 AM GMT-0700	671.0 B	Standard
<input type="checkbox"/>	AR_SPLIT.all.6.2018-07-26_17.01.49_UTC_00000.csv	Jul 26, 2018 10:01:50 AM GMT-0700	461.0 B	Standard
<input type="checkbox"/>	GLACCOUNTBALANCE.all.9.2018-08-30_18.08.10_UTC_00000.csv	Aug 30, 2018 11:08:47 AM GMT-0700	18.3 MB	Standard
<input type="checkbox"/>	GLACCOUNTBALANCE.all.9.2018-08-30_18.08.10_UTC_00001.csv	Aug 30, 2018 11:08:50 AM GMT-0700	730.0 KB	Standard
<input type="checkbox"/>	GLENTY.change.10.2018-11-01_15.20.31_UTC_00000.csv	Nov 1, 2018 8:20:35 AM GMT-0700	2.9 MB	Standard
<input type="checkbox"/>	GLENTY.change.11.2018-11-01_20.18.07_UTC_00000.csv	Nov 1, 2018 1:18:09 PM GMT-0700	1.3 KB	Standard
<input type="checkbox"/>	GLENTY.change.11.2018-11-01_20.18.08_UTC_00001.csv	Nov 1, 2018 1:18:09 PM GMT-0700	597.0 B	Standard

CSV Files Example



AutoSave Off | GLENTY.change.10.2018-11-01_15.20.31_UTC_00000 (1) - Excel

File Home Insert Page Layout Formulas Data Review View Help Tell me what you want to do

Clipboard: Cut, Copy, Paste, Format Painter | Font: Calibri, 11, Bold, Italic, Underline, Text Color, Background Color | Alignment: Wrap Text, Merge & Center | Number: General, Currency, Percentage, Decimals | Styles: Normal, Good, Bad, Neutral | Cells: Insert, Delete, Format | Editing: AutoSum, Fill, Clear, Sort, Filter

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
1	GLDIMUser	GLDIMUser	Project	RECORDN	ENTRY_DATE	DOCUMENT	DESCRIPTION	ACCOUNT	AMOUNT	TRX_AMO	BASECURF	CURRENCY	USERNO	LOCATION	DEPARTM	LINE_NO	TR_TYPE	ADJ	CLEARED	TIMEPERI	EXCH_RAT
2				1	3/14/2008		Opening E	1000	1170125	1170125	USD	USD	1			1	1	F	T		
3				2	3/14/2008		Opening E	1010	50000	50000	USD	USD	1			2	1	F	F		
4				3	3/14/2008		Opening E	1020	2089273	2089273	USD	USD	1			3	1	F	F		
5				4	3/14/2008		Opening E	1100	2348104	2348104	USD	USD	1			4	1	F	F		
6				5	3/14/2008		Opening E	1125	9875	9875	USD	USD	1			5	-1	F	F		
7				6	3/14/2008		Opening E	1150	159	159	USD	USD	1			6	1	F	F		
8				7	3/14/2008		Opening E	1200	10000	10000	USD	USD	1			7	1	F	F		

DDS vs API



Data Delivery Service

- All records
- Changed records
 - Includes deletions
- Cannot run by entity
- 100k max records per CSV file
- Throttled automatically
- Sub-ledger txn in one object

Application Programming Interface

- All records
- Changed records
 - No soft deletions (unless smart event log available and used)
- Run by entity
- 1k max records per page
- Throttled with other integrations
- Sub-ledger txn in separate objects

Combined Examples

Dashboard Smart Link Example



Custom Dashboard

Smart Link Type: Fetch

Title: Import AR Invoice Payments

Height: 550

URL: https://www.domain.com/uploadFile.php?sessionId={!USERPROFILE.SESSIONID!}&function=create_arpayment

Dashboard Smart Link Example



Dashboards Favorites

Import AR Invoice Payments

Import AR Invoice Payments

Intacct.

Import AR Payments
Imports AR Payments against existing invoices

Choose a file to upload: No file chosen

Please use this [template](#)

Custom Field and Smart Link Example



Smart Link Type: Click

Owner Object: Employee Expense

Height: 400X400

Target:

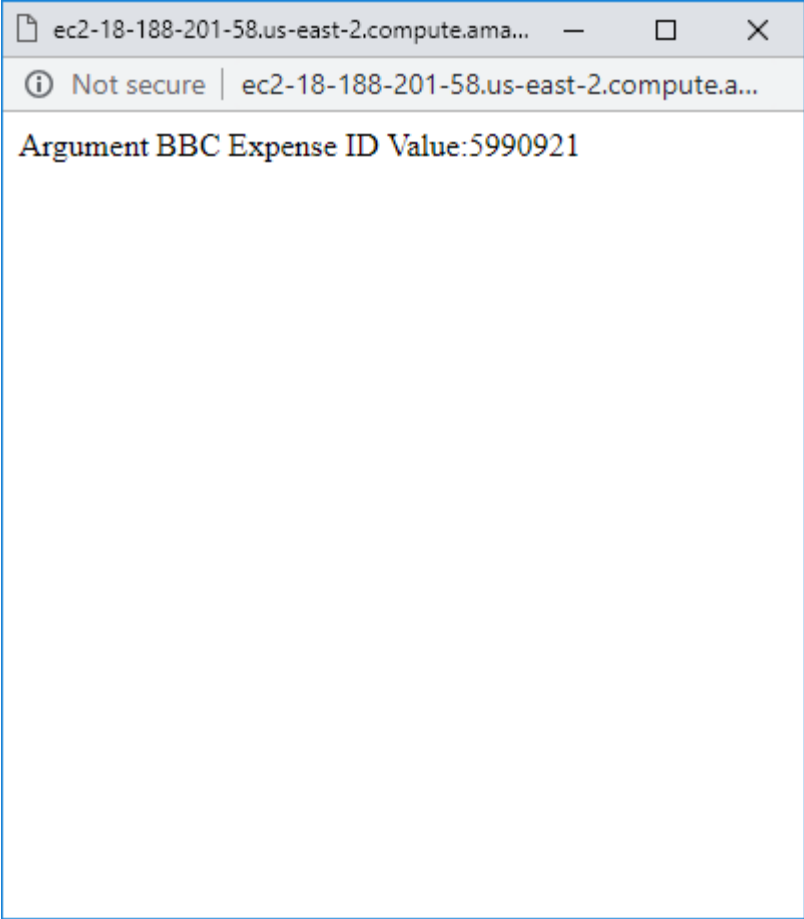
http://ec2-18-188-201-58.us-east-2.compute.amazonaws.com/intacct/bbc2019/test.php?BBC_EXPENSEID={!EEXPENSES.BBC_EXPENSEID!}

Custom Field and Smart Link Example



Expense report info

Date filed	Amount
02/07/2019	50.00
Employee	Amount paid
EMP-001--Bill Lumbergh	0.00
Expense report number	Amount due
EE-000039	50.00
GL posting date	Date paid
02/07/2019	--
Attachments	Last modified
--	02/22/2019
Reason for expense	BBC ExpenseID
--	5990921
Memo	↑View BBC Expense
--	
State	
Approved	



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Thank you

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