



Integration Platform Report Manager

Empowering Integration and Reporting

March 2025



Agenda

Argomento	Dettaglio	Pagina
Business Cases	Scope and aims	3
Events Configuration	Dfining the Event XML structure	7
Events Queue	How to handle queues BOD/BDE mapping	10
Event Triggers	Insert an Event (Extensibility/DOM/API)	13
IDM Document Output Integration	Send an Evento to IDM DO Job	18



Business Cases

Why we developed this Product?



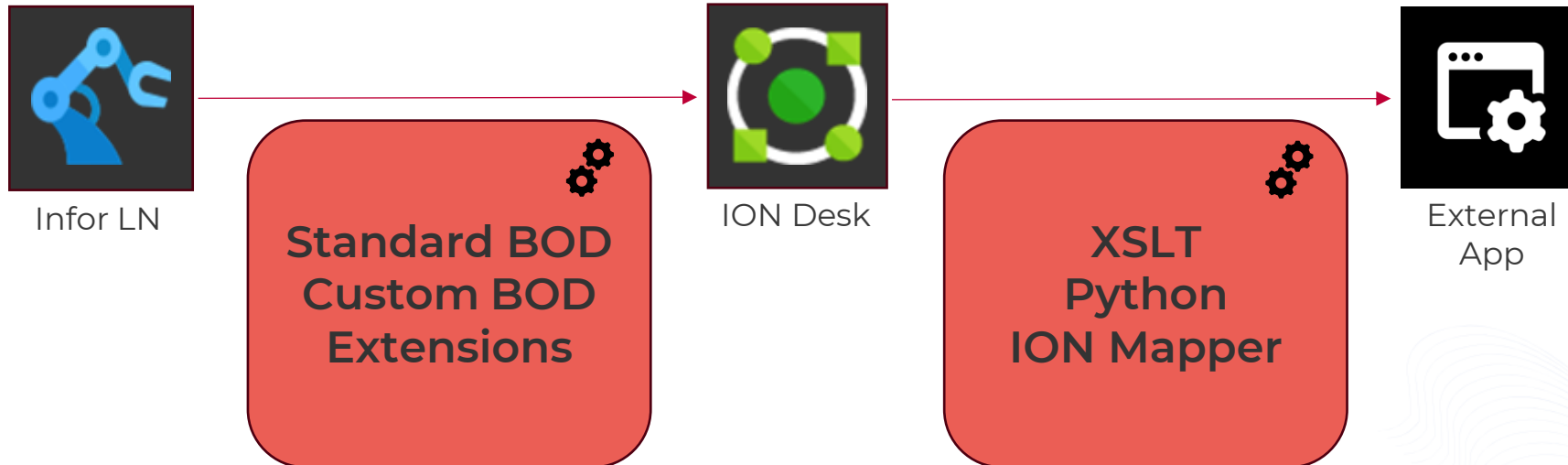
PMC Solutions

Report Designer

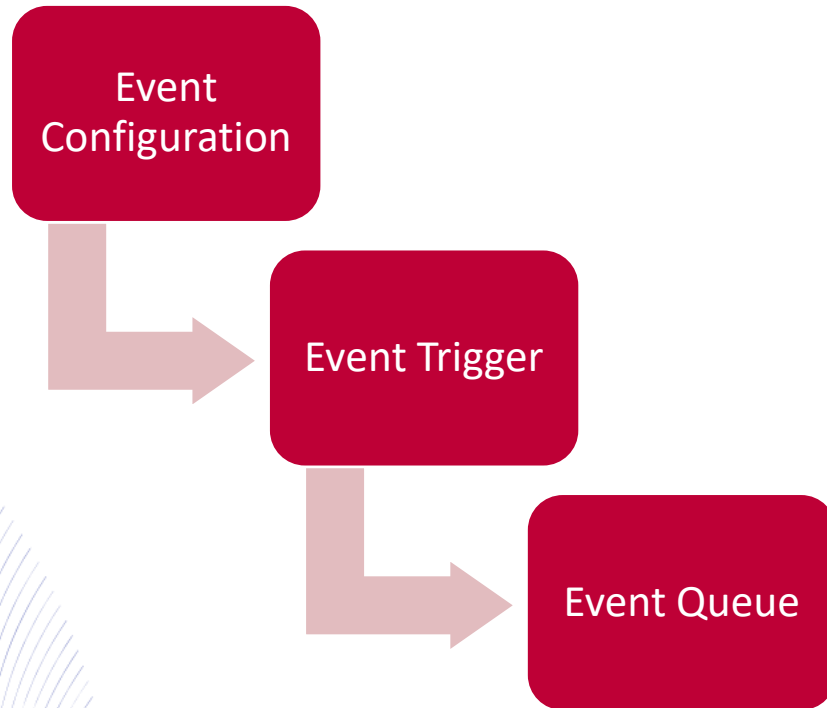
Report Extensions

4

Business Cases – Integrations



Business Cases – Solution



Events Configuration

XML dynamic structure directly defined by
Functional Analysts or Consultants (no LN coding)



Events Configuration - Features



Customizable



Dynamic



SQL



Function Calls

Integration Event: CDM_PurchaseOrderReportPrinted

Description: Purchase Order was printed

Integration Event Info

Creation User: gcarlita

Creation Date: 01/02/2024 18:18

Last Update User: gcarlita

Last Update Date: 14/02/2024 12:28

Integration Event Options

☒ Event Enabled

☒ Use BOD Mapping

Integration Event Configuration

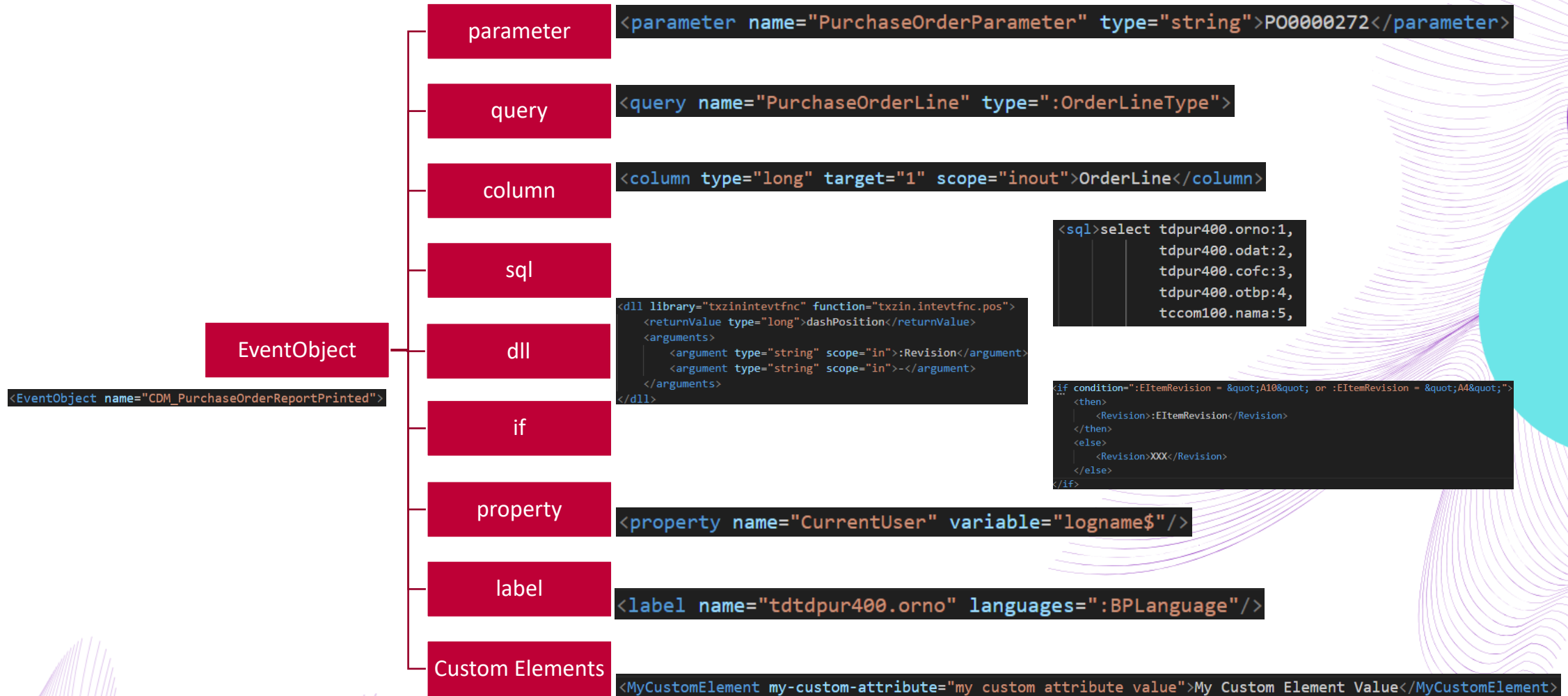
Event Object:

```
<?xml version="1.0"?>
<EventObject
  name="CDM_PurchaseOrderReportPrinted">
  <parameter
    name="PurchaseOrderParameter"
    type="string">P00000272</parameter>
  <PurchaseOrder>
    <query
      name="PurchaseOrderHeader">
      <column
        type="string"
        target="1">PurchaseOrder</column>
      <column
        type="datetime"
        target="2">OrderDate</column>
      <column
        type="string"
        target="3">PurchaseOffice</column>
      <column
        type="string"
        target="4">BuyFromBP</column>
      <column
        type="string"
        target="5">BuyFromBPName</column>
      <column
        type="string"
        target="6">ReferenceA</column>
      <column
        type="string"
        target="7">ReferenceB</column>
      <column
        type="string"
        target="8">Currency</column>
    </query>
  </PurchaseOrder>
</EventObject>
```

CDM_PurchaseOrderReportPrinted.xml

```
C:\> Users\gcarlita\Downloads > CDM_PurchaseOrderReportPrinted.xml
1 <EventObject name="CDM_PurchaseOrderReportPrinted">
2   <parameter name="PurchaseOrderParameter" type="string">P00000272</parameter>
3   <PurchaseOrder>
4     <query name="PurchaseOrderHeader">
5       <column type="string" target="1">PurchaseOrder</column>
6       <column type="datetime" target="2">OrderDate</column>
7       <column type="string" target="3">PurchaseOffice</column>
8       <column type="string" target="4">BuyFromBP</column>
9       <column type="string" target="5">BuyFromBPName</column>
10      <column type="string" target="6">ReferenceA</column>
11      <column type="string" target="7">ReferenceB</column>
12      <column type="string" target="8">Currency</column>
13      <column type="text" target="9" textLanguage="2">HeaderTextEng</column>
14      <column type="text" target="10" textLanguage="6">HeaderTextIta</column>
15      <column type="string" target="11">BuyFromAddressLine1</column>
16      <column type="string" target="12">BuyFromAddressLine2</column>
17      <column type="string" target="13">BuyFromAddressLine3</column>
18      <column type="string" target="14">BuyFromAddressLine4</column>
19      <column type="string" target="15">BuyFromAddressLine5</column>
20      <column type="string" target="16">BuyFromAddressLine6</column>
21      <column type="string" target="17">ReceiptAddressLine1</column>
22      <column type="string" target="18">ReceiptAddressLine2</column>
23      <column type="string" target="19">ReceiptAddressLine3</column>
24      <column type="string" target="20">ReceiptAddressLine4</column>
25      <column type="string" target="21">ReceiptAddressLine5</column>
26      <column type="string" target="22">ReceiptAddressLine6</column>
27      <column type="string" target="23" scope="inout">BPLanguage</column>
28      <column type="string" target="24">DeliveryTerms</column>
29      <column type="string" target="25">DeliveryTermsDescription</column>
30      <column type="string" target="26">PaymentTerms</column>
31      <column type="string" target="27">PaymentTermsDescription</column>
32      <column type="string" target="28">Carrier</column>
33      <column type="string" target="29">CarrierDescription</column>
34      <sql>select tdpur400.orno:1,
35              tdpur400.odat:2,
36              tdpur400.cofc:3,
37              tdpur400.otbp:4,
38              tccom100.nama:5,
39              tdpur400.refa:6,
40              tdpur400.refb:7,
41              tdpur400.ccur:8,
42              tdpur400.txta:9,
43              tdpur400.txta:10,
44              tccom130.ln01:11,
45              tccom130.ln02:12,
```

Events Configuration - EventObject



Events Queue

Publishing and Processing– BOD & BDE

		VIEW ▾		REFERENCES ▾		ACTIONS ▾	
		Event Date		Integration Event		Integration Event ID	
		14/02/2024		(R)		(R)	
☐		14/02/2024	16:12	CDM_PurchaseOrderReportPrinted		bd315eb6-3ed2-428b-b6bb-b4e21adf0f22	
☐		14/02/2024	16:12	CDM_PurchaseOrderReportPrinted		c01c5fa9-df2f-4545-ac02-9cbbc80aada2	
☐		14/02/2024	16:12	CDM_PurchaseOrderReportPrinted		c06578ba-002a-4b6c-808e-fc86de461080	
☐		14/02/2024	16:12	CDM_PurchaseOrderReportPrinted		c08d0907-122d-4431-a9e0-9e004aa81b0b	
☐		14/02/2024	16:12	CDM_PurchaseOrderReportPrinted		cc843b65-4aad-4bec-ac84-a4bf55a5419e	
☐		14/02/2024	16:12	CDM_PurchaseOrderReportPrinted		ce23846c-dca2-44a7-8926-214d08c5ebbb	
☐		14/02/2024	16:12	CDM_PurchaseOrderReportPrinted		d0a665ee-e0db-4ac3-8a2e-582a98231981	
☐		14/02/2024	16:12	CDM_PurchaseOrderReportPrinted		deef106d-fe9d-4b66-8ec7-e71b0bd2dd89	
☐		14/02/2024	16:12	CDM_PurchaseOrderReportPrinted		ebb26ba0-60b8-4f31-b3a6-5f45c5bd068c	
☐		14/02/2024	16:12	CDM_PurchaseOrderReportPrinted		ebc279f0-d6bf-4593-a08b-18d6c05ea409	
☐		14/02/2024	16:12	CDM_PurchaseOrderReportPrinted		f87cca2a-db56-4fe1-95ec-1721dc2e5fa0	
☐		14/02/2024	16:12	CDM_PurchaseOrderReportPrinted		fad4b236-0ffd-4e52-9c71-d40bf9b3732a	
☐		14/02/2024	16:12	CDM_PurchaseOrderReportPrinted		fb7acfeb-76b5-4d6b-8532-a1a464ced9e0	
☐		14/02/2024	16:12	CDM_PurchaseOrderReportPrinted		fec7edbb-751c-49c8-af96-52306c7a9209	
☐		14/02/2024	16:12	CDM_PurchaseOrderReportPrinted		09372495-1d6a-45ea-a868-dd378b675f05	
☐		14/02/2024	16:12	CDM_PurchaseOrderReportPrinted		0ff7fd98-63b6-4811-b5b6-feb0e0eb7314	
☐		14/02/2024	16:12	CDM_PurchaseOrderReportPrinted		0ff78d12-0ad5-48fa-af19-2d5b788f75a7	
☐		14/02/2024	16:12	CDM_PurchaseOrderReportPrinted		20e37ccb-43ce-42b3-9f7e-c03f73a9cf9b	
☐		14/02/2024	16:12	CDM_PurchaseOrderReportPrinted		255f9302-4a56-44c4-b646-2933104a6167	
☐		14/02/2024	16:12	CDM_PurchaseOrderReportPrinted		26c2d9b4-bfd4-4c9d-9ddc-13c7407c2183	
☐		14/02/2024	16:12	CDM_PurchaseOrderReportPrinted		2c4f1a2f-82-4d50-a7b1-ef10d287e2ed	
☐		14/02/2024	16:12	CDM_PurchaseOrderReportPrinted		31c4391f-f65-400c-b31b-49f76f0f15c4	
☐		14/02/2024	16:12	CDM_PurchaseOrderReportPrinted		31050c81-751c-4863-a089-b15092bba851	
☐		14/02/2024	16:12	CDM_PurchaseOrderReportPrinted		31b4e387-3b06-4280-99fe-1596eae713e4	
☐		14/02/2024	16:12	CDM_PurchaseOrderReportPrinted		3547a795-38e9-40d2-ace2-df975e49bbc3	
☐		14/02/2024	16:12	CDM_PurchaseOrderReportPrinted		35c68rdh-c9e4-4c7c-aah3-df074da31661	

VIEWSREFERENCESACTIONS

Integration Event:
Event User:
Event Date:
Event Status:

CDM_PurchaseOrderReportPrinted

gcarliba

14/02/2024

16:12

New

Search Parameter 1:
Search Parameter 2:
Search Parameter 3:
Search Parameter 4:
Search Parameter 5:

PO0000272

Processing Date:

Error Message:

Integration Event

Integration Event ID:
Event Keys:

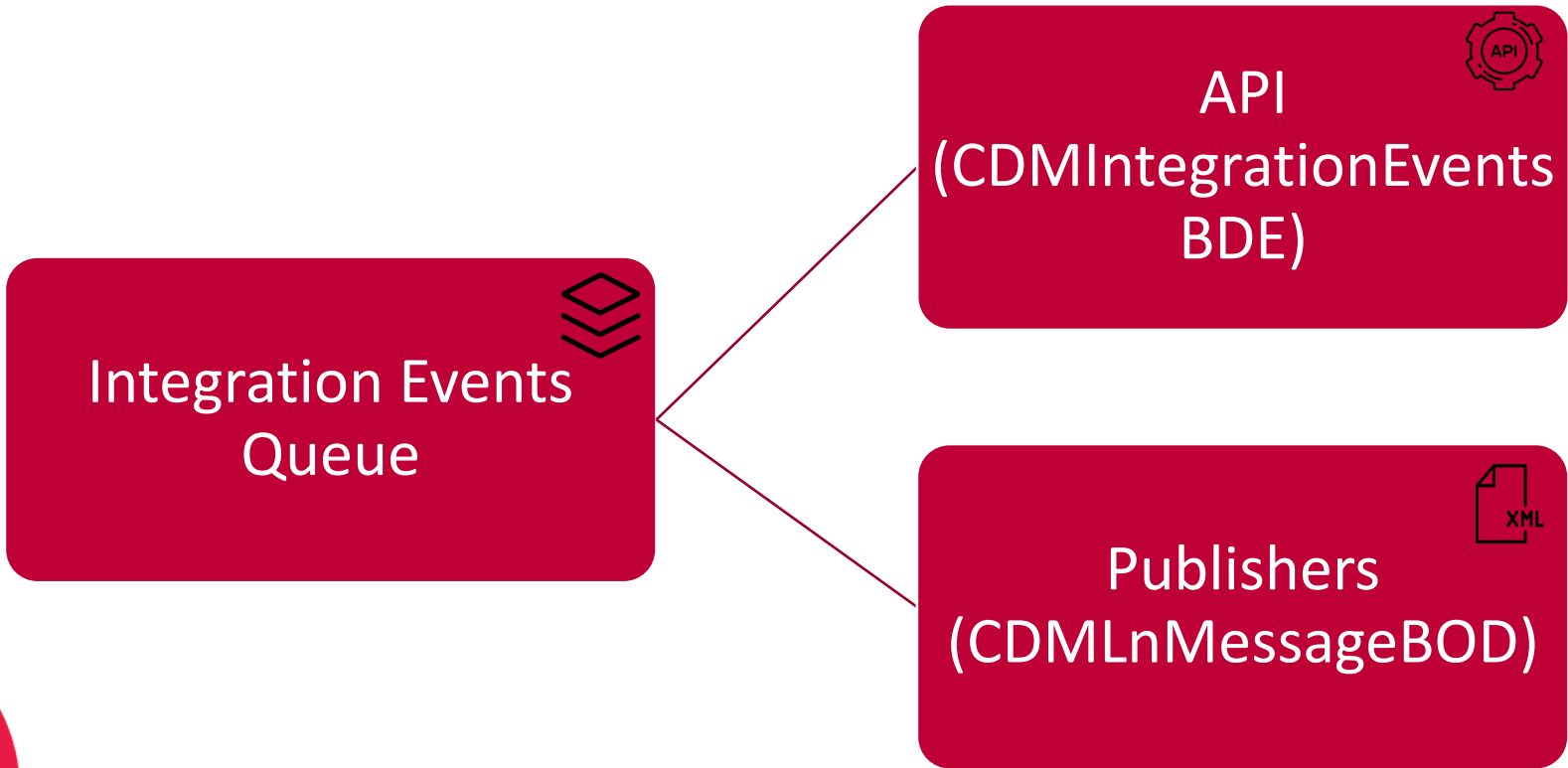
698eec08-228e-45f3-8f8c-1c23503096ed

<?xml version="1.0"?>
<IntegrationEventKeys>
 <key
 name="PurchaseOrderParameter">PO0000272</key>
 </IntegrationEventKeys>

Detail



Events Queue - Processing



```
POST https://mingle-1onapleu1.inforcloudsuite.com/GRUPPOCDM_TRN/LN/c4ws/services/CDMIntegrationEvents

Params Authorization Headers (11) Body Pre-request Script Tests Settings
none form-data x-www-form-urlencoded raw binary GraphQL XML
1 <soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
2   <soap:Header>
3     <ns2:Activation xmlns:ns2="http://www.infor.com/businessinterface/CDMIntegrationEvents">
4       <Company>0052</Company>
5     </ns2:Activation>
6   </soap:Header>
7   <soap:Body>
8     <ns1:Show xmlns:ns1="http://www.infor.com/businessinterface/CDMIntegrationEvents">
9       <ShowRequest>
10        <ControlArea>
11          <processingScope>request</processingScope>
12        </ControlArea>
13      </ShowRequest>
14    </ns1:Show>
15  </soap:Body>
16 </soap:Envelope>
```

```
Message Content
<?xml version="1.0"?>
<SyncCDMLnMessage xmlns="http://schema.infor.com/InforOAGIS/2" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <ApplicationArea>
    <Sender>
      <LogicalID>id://infor.in.1m01/0052</LogicalID>
      <ComponentID>erp</ComponentID>
      <ConfirmationCode>DefError</ConfirmationCode>
    </Sender>
    <CreationDateTime>2024-02-09T11:31:39Z</CreationDateTime>
    <CDMLnInfor-nid:GRUPPOCDM_TRN:52:52:CDM_PurchaseOrderReportPrinted_PO00000272:CDMLnMessage&verb=5</CDMLnInfor-nid:GRUPPOCDM_TRN:52:52:CDM_PurchaseOrderReportPrinted_PO00000272:CDMLnMessage&verb=5>
  </ApplicationArea>
  <DataArea>
    <Sync>
      <TenantID>GRUPPOCDM_TRN</TenantID>
      <AccountingEntityID>52</AccountingEntityID>
      <LocationID>52</LocationID>
      <ActionCriteria>
        <ActionExpression actionCode="Add"/>
      </ActionCriteria>
    </Sync>
    <CDMLnMessage>
      <DocumentID>
        <ID variationId="1464">CDM_PurchaseOrderReportPrinted_PO00000272</ID>
      </DocumentID>
      <MessageType>CDM_PurchaseOrderReportPrinted</MessageType>
      <DocumentDateTime>2024-02-09T11:31:39Z</DocumentDateTime>
      <LastModificationPerson>
        <IDs>
          <ID>GCB</ID>
        </IDs>
        <Name>Gabriele Carli Ballola</Name>
      </LastModificationPerson>
      <MessageContent>
        <CDM_PurchaseOrderReportPrinted>

```

Event Triggers

Trigger new Events – Extensibility/DOM/API



Event Triggers – Interfaces Library

txzinintevents

Interfaces for Ln applications /
Extensions

IntegrationEvents.insert

IntegrationEvents.insertWithUUID

IntegrationEvents.insertWithKeys

IntegrationEvents.insertReportPrintedEventFromReportExtension

```
function extern Long IntegrationEvents.insert(
    const      string      iEvent,
    ...
)

DllUsage
Expl: This function inserts a new Integration Event record.
      The generated UUID is not exposed in this function as output
      argument. If you need it, you can either retrieve the
      txzin017.uuid table field value or use instead the function
      IntegrationEvents.insertWithUUID.
      Dynamic inputs are the values of the parameters defined in the
      Event Object of the Configuration.
      If the number of inputs is different from the number of
      parameters defined in the configuration, then an early return is
      performed. The inputs should be ordered exactly in the same way
      as the parameters in the configuration.

Pre: db.retry.point
Post: commit.transaction/abort.transaction
Input: iEvent      - Integration Event
      ...          - Event parameters values
Output: None
Return: 0 / DALHOOKERROR
EndDllUsage
```



Event Triggers - Extensibility

Extension

Table

Purchase Orders (tdpur400)

Hooks

All

Implemented

Hook

☐

Declarations

☐

Functions

☐

Before Open Object Set

☐

Set Object Defaults

☐

Method is Allowed

☐

Before Save

☒

After Save

☐

Before Destroy

☐

After Destroy

Hook Implementation

After Save

```
1 function extern long after.save.object(long mode)
2 {
3   if <some_condition> then
4     RETIFNOK(IntegrationEvents.insert(
5       "CDM_PurchaseOrderReportPrinted",
6       tdpur400.orno))
7   endif
8   return(0)
9 }
10
```

✗

Complex LN Development

✓

Symple Interfaces with
preconfigured functions

Extension

Report

Print Purchase Order (tdpur440101000)

Calculated Fields

InsertIntegrationEvents (ext.intevents)

Hooks

All

Implemented

Hook

☒

Calculate Value

Hook Implementation

Calculate Value

```
1 function extern void ext.intevents.calculate()
2 {
3   ret = IntegrationEvents.insertReportPrintedEventFromReportExtension(
4     "CDM_PurchaseOrderReportPrinted",
5     tdpur400.orno)
6 }
```

Properties

Name

Value

Name

ext.intevents

Label

Description

InsertIntegrationEvents

Domain

tcmsc.long

Elements

1

Dataset

Event Triggers – Document Output Management

☐	*Custom Destination Type	Description	Destination Type Custom Library
	(A)	(A)	(A)
☐	INTEG_EVENTS	Integration Events	txzinintevtdom

Document Type: CDMPO

Description: Purchase Order

☒ Split and Distribute Documents

Receiver Type: User

Keywords

	Description	Zoom Session	Zoom Return Field
Keyword 1:	Order	tdpur4100m900	tdpur400.orno
Keyword 2:	Supplier	tdpur4100m900	tdpur400.otbp
Keyword 3:			
Keyword 4:			

Parts Mail From Addresses Print Devices Archive Specifications Document Type BOD Specifications Receiver Independent Destinations Allowed Signers Seals Variables

	Destination ID	Destination Type	Custom Destination	Address	Name in Expressions
☐	=	=	(A)	(A)	(A)
☐	1	Document Management System		infor.idm	
☐	2	Custom	INTEG_EVENTS	CDM_PurchaseOrderReportPrinted-#keyword1#	

✗

Development

✓

Configurations

Select Device

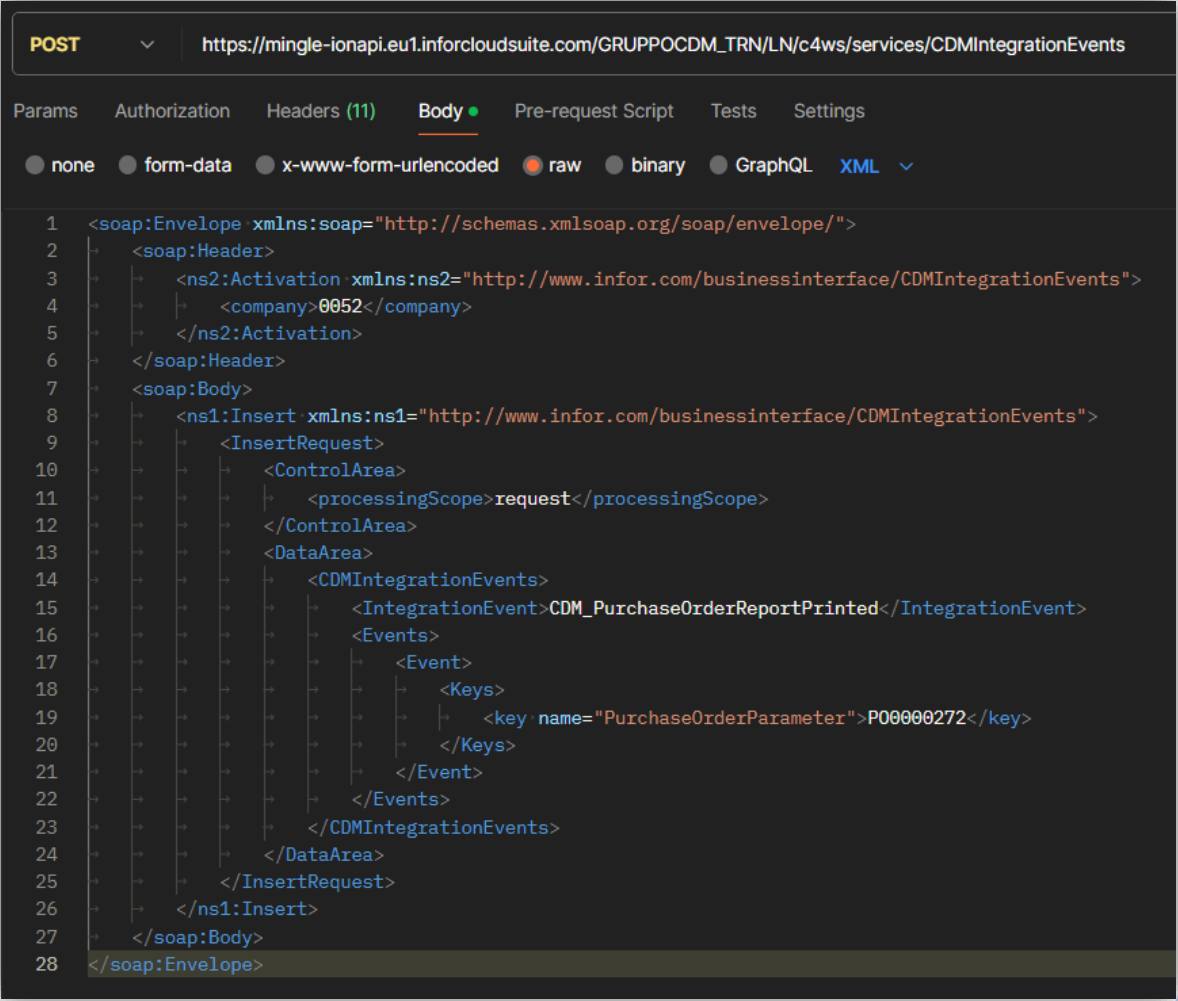
CONTINUE CLOSE SAVE DEFAULTS CLEAR DEFAULTS GET DEFAULTS SELECT LANGUAGE...

Printer Display Send Message File

Device: Document Output Management

Report tdpur440101000 Print Purchase Order

Event Triggers – API



```
POST https://mingle-ionapi.eu1.inforcloudsuite.com/GRUPPOCDM_TRN/LN/c4ws/services/CDMIntegrationEvents

Params Authorization Headers (11) Body Pre-request Script Tests Settings
● none ● form-data ● x-www-form-urlencoded ● raw ● binary ● GraphQL XML ▼

1 <soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
2   <soap:Header>
3     <ns2:Activation xmlns:ns2="http://www.infor.com/businessinterface/CDMIntegrationEvents">
4       <company>0052</company>
5     </ns2:Activation>
6   </soap:Header>
7   <soap:Body>
8     <ns1:Insert xmlns:ns1="http://www.infor.com/businessinterface/CDMIntegrationEvents">
9       <InsertRequest>
10        <ControlArea>
11          <processingScope>request</processingScope>
12        </ControlArea>
13        <DataArea>
14          <CDMIntegrationEvents>
15            <IntegrationEvent>CDM_PurchaseOrderReportPrinted</IntegrationEvent>
16            <Events>
17              <Event>
18                <Keys>
19                  <key name="PurchaseOrderParameter">P00000272</key>
20                </Keys>
21              </Event>
22            </Events>
23          </CDMIntegrationEvents>
24        </DataArea>
25      </InsertRequest>
26    </ns1:Insert>
27  </soap:Body>
28</soap:Envelope>
```



IDM Document Output Integration

Sending an Event to IDM DO Job



IDM Document Output Integration

MS Word Template

IDM Job Submit API

IDM Document

Purchase Order <Purchase Order>

Purchase Order: <PurchaseOrder>

Order Date: <OrderDate>

Delivery Term: <DeliveryTerms>

Payment Terms: <PaymentTerms>

<DeliveryTermsDescription>

Business Partner: <BuyFromBP>

<BuyFromBPName>

<BuyFromAddressLine1>

<BuyFromAddressLine2>

<BuyFromAddressLine3>

<BuyFromAddressLine4>

<BuyFromAddressLine5>

<BuyFromAddressLine6>

Line	Item	Description	Quantity	Price	Amount
<OrderLine>/<OrderLineSequence>	<Item>	<ItemDescription>	<Quantity>	<Price>	<Amount>
					<OrderAmount>

IDM Document Output - Submitted Jobs

Integration Event ID: ac516a81-384f-4b6e-aa0a-1ba01e9c9ef

Event Status: Processed

Integration Event: CDM_PurchaseOrderReportPrinted_IDMDocumentOutput

Event Settings: GCBTemplate_PurchaseOrder_DOM_Distribution

Event Enabled

Direct Request Status API

Use DOM Distribution

Direct DOM Distribution

ACTIONS

Submit Job

View Request Body for Submit

Download Request Body for Submit

Get Job Status

View Document in IDM...

View Document

Download Document

Distribute with DOM

Export and Import

	Creation Date	Job ID	Job Status	Creation User	Processing User	Processing Date	Distributed with DOM
☒	09/08/2024 14:12	bc45b331-4a42-4f24-be1d-8c1cf76ee9c	Processed	gcarlba	gcarlba	09/08/2024 14:12	☐

Purchase Order PO0000272

Purchase Order: PO0000272

Order Date: 2023-10-30T10:30:00Z

Delivery Term: EXW Ex Works

Payment Terms: N00 Ex Works

Business Partner: BP0000003 AMAZON.COM, INC.

AMAZON.COM, Inc.

410 TERRY AVE

WA 98109

United States

Line	Item	Description	Quantity	Price	Amount
10V0	02-1000-SER-TRACK-HU	02-1000 SERIAL TRACKING WITH HU	25	0	0
10V1	02-1000-SER-TRACK-HU	02-1000 SERIAL TRACKING WITH HU	25	0	0
10V2	02-1000-SER-TRACK-HU	02-1000 SERIAL TRACKING WITH HU	22	0	0
20V1	02-1000-SER-TRACK-HU	02-1000 SERIAL TRACKING WITH HU	18	0	0
30V1	02-1000-SER-TRACK-HU	02-1000 SERIAL TRACKING WITH HU	4	0	0
40V1	02-1000-SER-TRACK-HU	02-1000 SERIAL TRACKING WITH HU	5	0	0
					0

19

ConfidentialLutech©2023

CONFIDENTIALITY NOTICE

Le informazioni, i dati e le immagini contenuti in questo documento sono strettamente confidenziali e riservati, di esclusiva proprietà di Lutech.

Sono disponibili esclusivamente per persone o società a cui è stato direttamente consegnato il documento e non sono divulgabili a terzi senza il consenso scritto dell'Ufficio Comunicazione di Lutech, che può essere contattato all'indirizzo comunicazione@lutech.it.

I loghi di terze parti (es. partner, clienti, ecc.) sono da considerarsi indicativi.



**Headquarter**

Via G. Marconi, 25
43058 Sorbolo (PR)

Vimercate

Torri Bianche, 1
TORRE SEQUOIA – piano 9
20871 Vimercate (MB)

Bologna

Via del Fonditore, 12
40138 Bologna (BO)

Padova:

Via A.Rossi, 1
35030 Rubano (PD)

Parma

Largo Cacciari, 1/A 1/B
43122 Parma (PR)

Shanghai

5/f Building nr 8
153 jumen rd. - 200023 Shanghai

Madrid

Avda de América, N° 32
28922 Alcorcón - Madrid

Barcellona

Orient, N° 74-84,
08172 Sant Cugat del Vallès - Barcelona

Valencia

Parque empresarial Turianova
Ctra.Benisano a Olcau s/n 46181
Benisano - Valencia

www.lutech.group
www.gruppocdm.it