

Welcome to

# dreamOle<sup>®</sup>



Cognizant



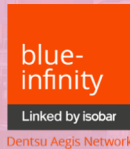
FORMTITAN



MAKEMECLOUD  
consulting



aircall



FINANCIALFORCE



wefox

BLACKBIRD





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# Platform Events and the Spanish Omelette



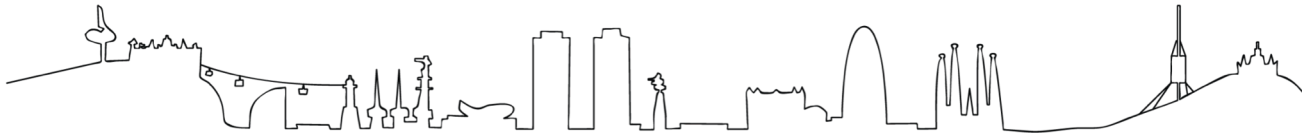
# We want you to participate!

#dreamOle18\_noOnion

#dreamOle18\_withOnion



#dreamOle18



dreamOle.





# SEE YOUR CUSTOMERS IN FULL COLOR

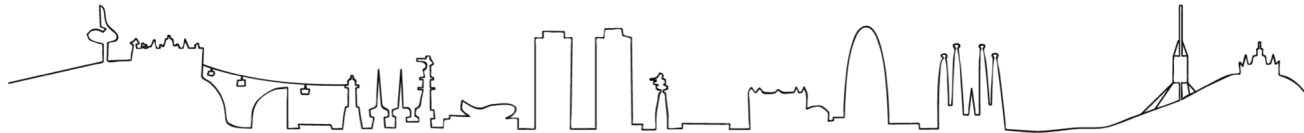
With the only customer-centric ERP on Salesforce





# Agenda

- What is Platform Events?
- Benefits of an Event Driven Architecture
- What else is in Platform Events
- How to get subscribed and publish events with and without code
- Demo





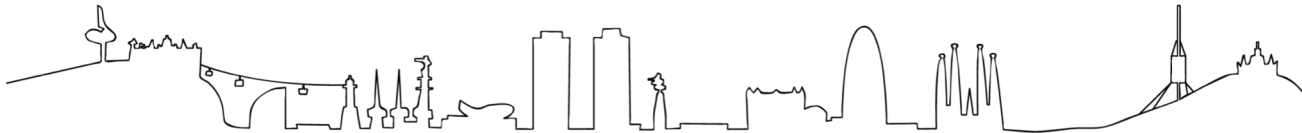
# What is Platform Events?



# A bit of history

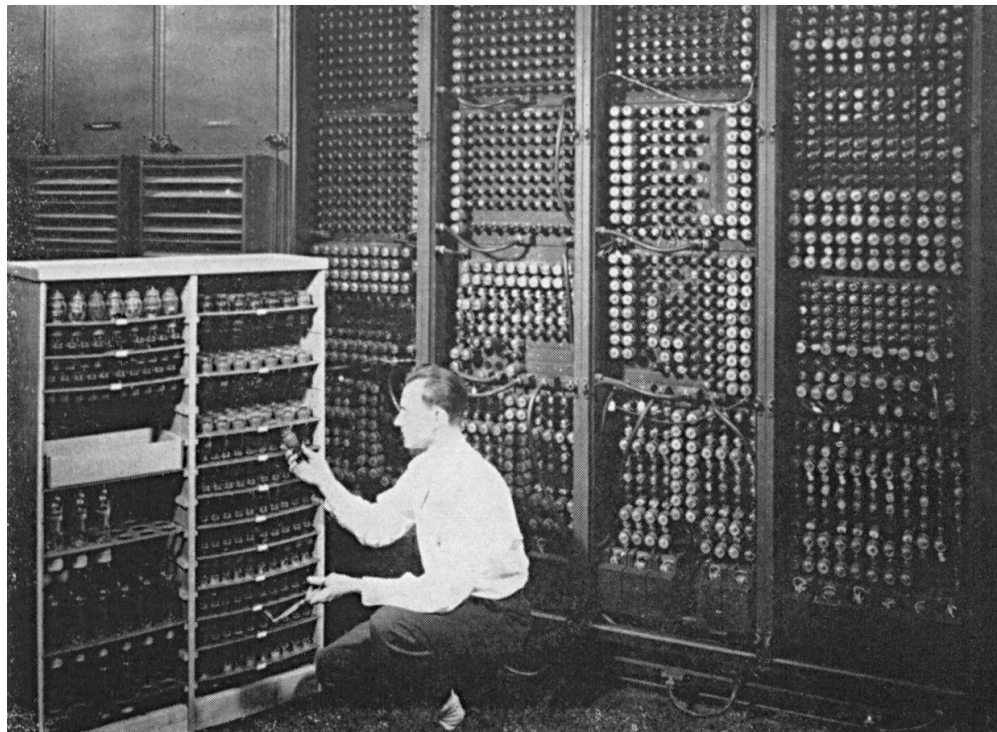


The abacus. One of the first mechanical tools to help the human being with calculations.





# A bit of history



# A bit of history

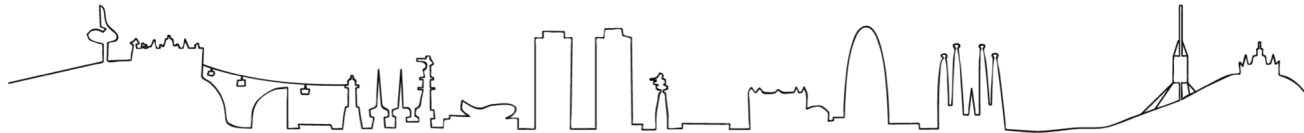






## A bit of history

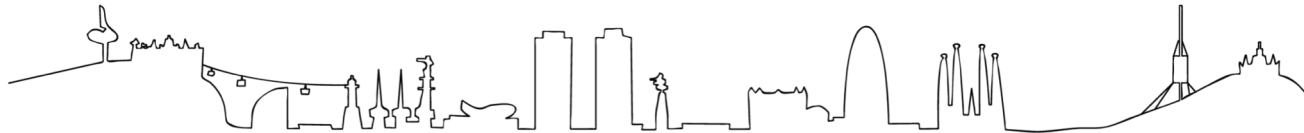
Extreme programming



# A bit of history

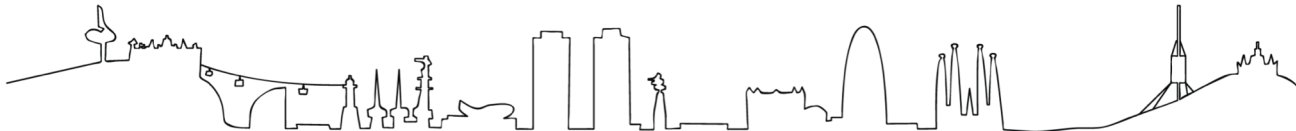
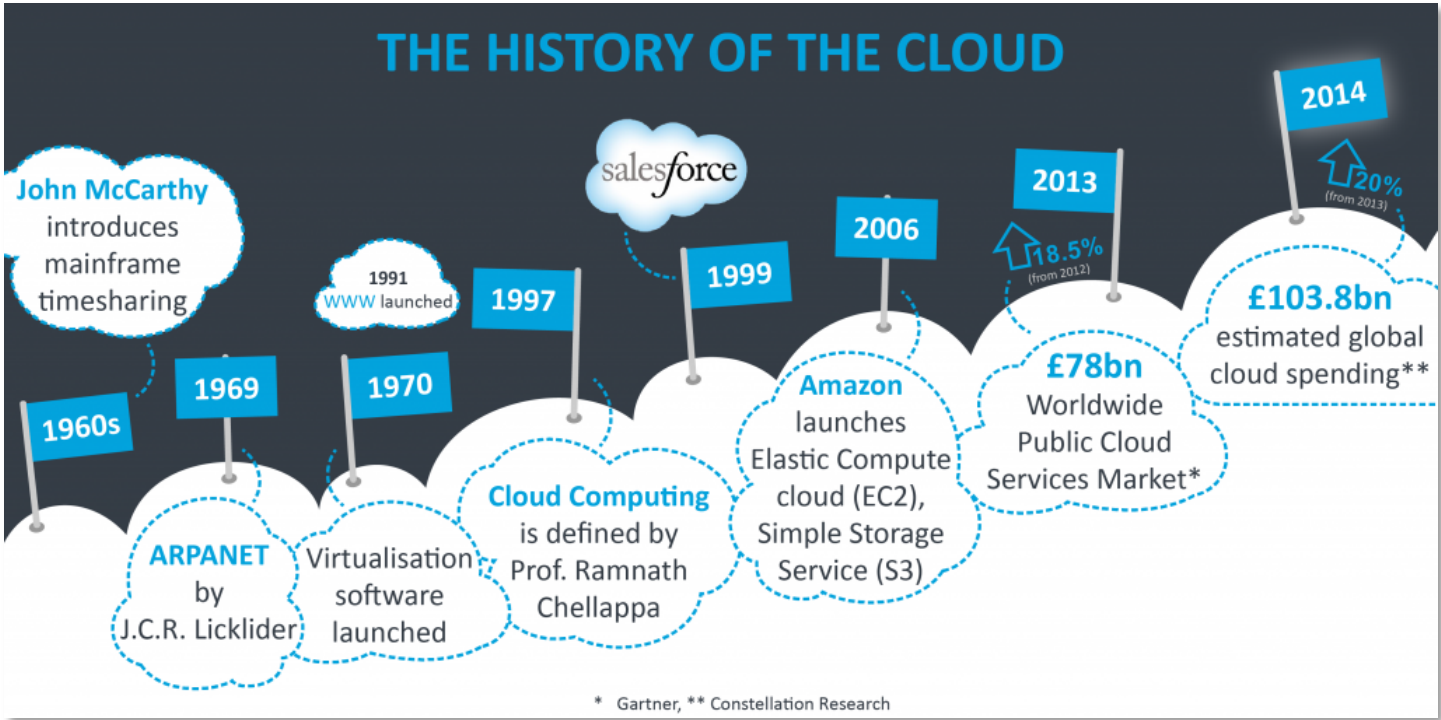


A big guy with a big dream.





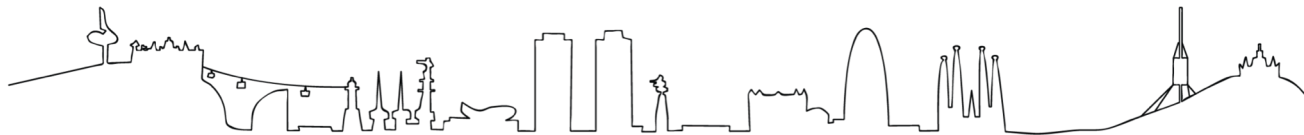
# A bit of history



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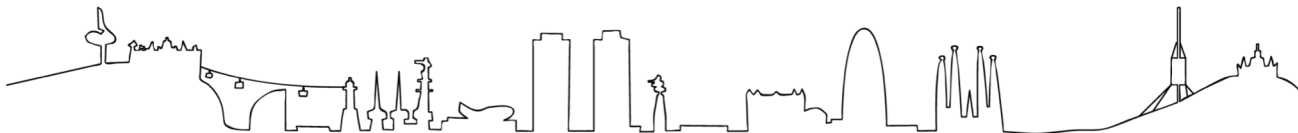
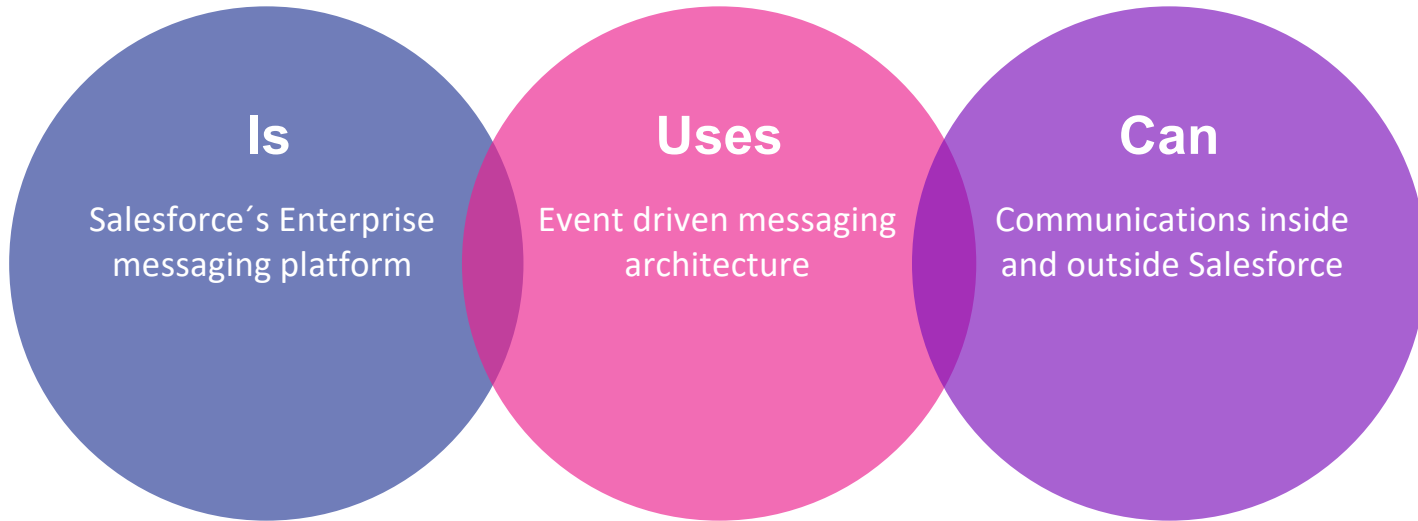


- From pulled to pushed with Streaming API
- Next stop, Platform Events.





# What is Platform Events?



# What is Platform Events?

## So, basically...

### New sObject

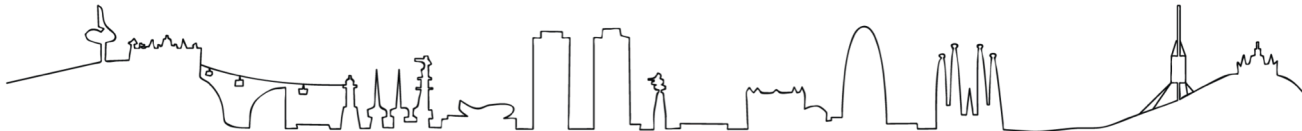
- Ended with \_\_e
- Not all field types are allowed
- No standard UI
- No queryable
- Replay ID
- Automated Process

### Decouple the couples


Publisher and subscriber do not need to know each other

### With & without code

- APEX
- Process Builder
- Visual Flow (pub but not sub)



# Subscribers and replay ID

 SETUP  
**Platform Events**

**Standard Fields**

Action	Field Label	Field Name	Data Type	Controlling Field	Indexe
	<a href="#">Created_By</a>	CreatedBy	Lookup(User)		
	<a href="#">Created_Date</a>	CreatedDate	Date/Time		
	<a href="#">Replay_ID</a>	ReplayId	External Lookup		

**Custom Fields & Relationships** [New](#)

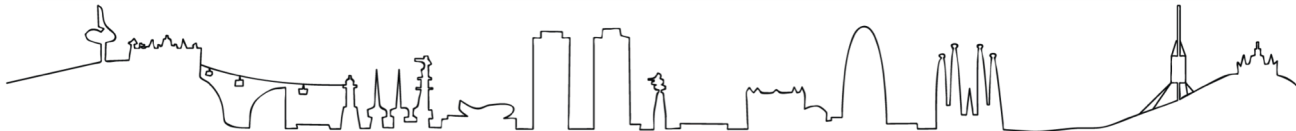
Action	Field Label	API Name	Data Type	Indexed	Controlling Field	Modified By
<a href="#">Edit</a>   <a href="#">Del</a>	<a href="#">Tweet</a>	Tweet__c	Long Text Area(32768)			<a href="#">Pedro Molina</a> , 1/28/2018 8:52 PM
<a href="#">Edit</a>   <a href="#">Del</a>	<a href="#">User Name</a>	User_Name__c	Text(30)			<a href="#">Pedro Molina</a> , 1/28/2018 8:50 PM

**Triggers** [New](#)

Action	Name	Api Version	Status	Size Without Comments	Last Modified By
<a href="#">Edit</a>   <a href="#">Del</a>	<a href="#">tweetForPoll</a>	41.0	Active	754	<a href="#">Pedro Molina</a> , 1/28/2018 11:36 PM

**Subscriptions**

Action	Subscriber	Latest Processed Id	Latest Published Id	State
	<a href="#">tweetForPoll</a>	60	60	Running

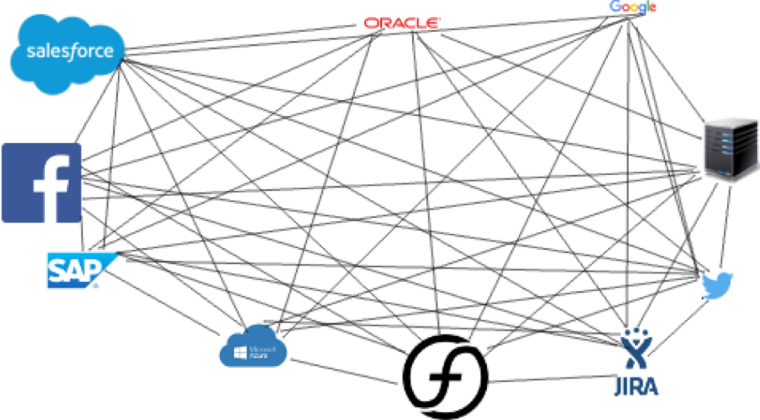




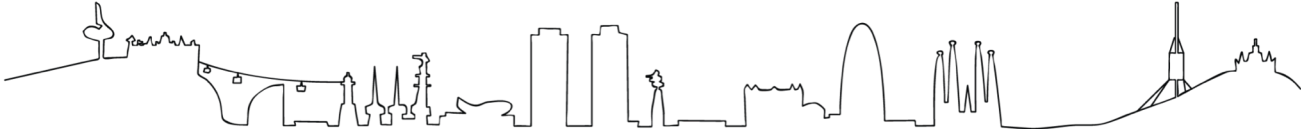
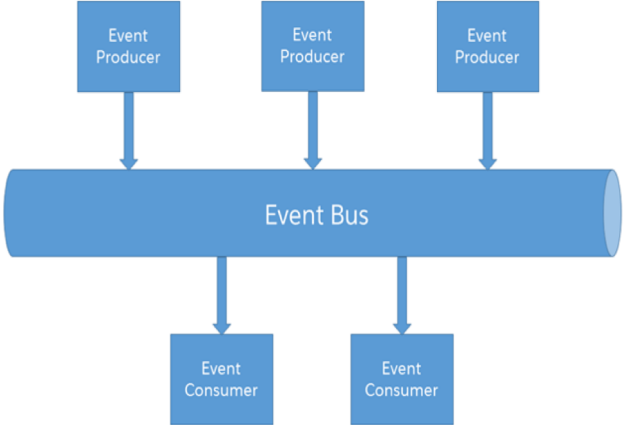
# Event Driven Architecture



# What is Event Driven Architecture



VS



# Benefits of the Event Driven Architecture

## Decoupled pub/sub

Publisher and subscriber do not need to know each other

## Real Time Notifications

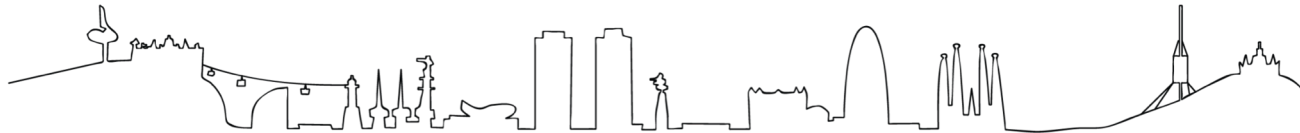
Request for answer are not longer needed

## Customized Info

You can cook the data to be sent and decide what to get

## Simplify

Simplifies the communication model in connected systems.



# Benefits of the Event Driven Architecture

## De-Subscribe Deactivate

In case of information  
not needed

## 1 to N

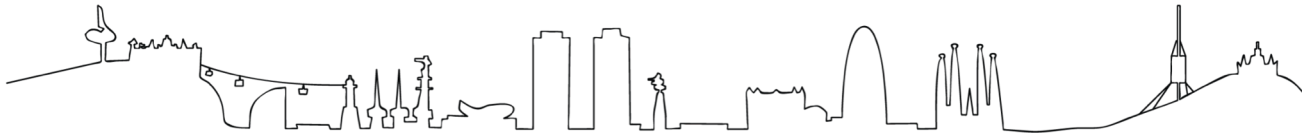
One or more subs can  
listen to the same event.

## APPs on/off Platform

And you really do not  
care about that

## Reply ID

Identifier to recover  
missing events





# Reply ID example



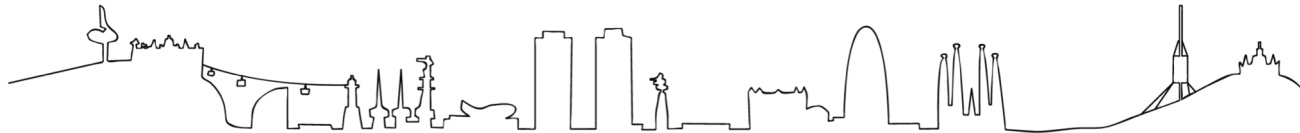
# What else is in Platform Events



# What else is in Platform Events

**Change Data  
Capture**

**High-Volume  
Platform  
Events**



# Subscribing and Publishing

Do it with or without code





# Using APEX



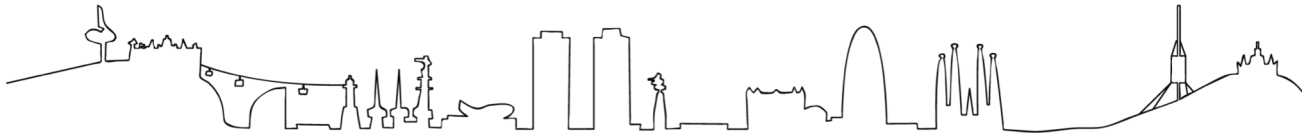
## Subscribing

```
trigger DOTrigger on dreamOleEvent__e (after insert) {  
    for(dreamOleEvent__e event : trigger.new){  
        //do the thing...  
        system.debug('I am receiving stuff '+event);  
        //do the thing...  
    }  
}
```



## Publishing

```
dreamOleEvent__e eventToSend = new dreamOleEvent__e();  
//fill event fields or do your stuff  
List<Database.SaveResult> results = EventBus.publish(new List<dreamOleEvent__e>{eventToSend});
```

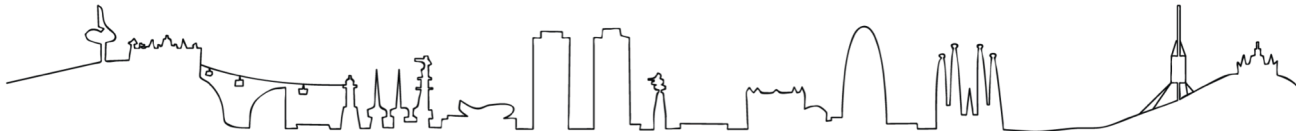


# Publishing with Process Builder

The image shows a Salesforce Process Builder configuration. On the left, a flowchart starts with a 'START' button, followed by a 'Fridays offer' event. A decision diamond labeled 'over 20' has a 'TRUE' path leading to 'IMMEDIATE ACTIONS' and a 'FALSE' path leading to a 'STOP' button. The 'IMMEDIATE ACTIONS' box contains an 'event\_publishing' action.

On the right, the configuration for the 'event\_publishing' action is shown. The 'Action Name' is 'event\_publishing'. The 'Record Type' is 'pizza mountain'. The 'Set Field Values' section contains two rows:

Field *	Type *	Value *
Pizza lovers	Field Reference▼	[Fridays_offer__c].Pizza_l...Q
Pizzas ordered	Field Reference▼	[Fridays_offer__c].Pizzas... Q



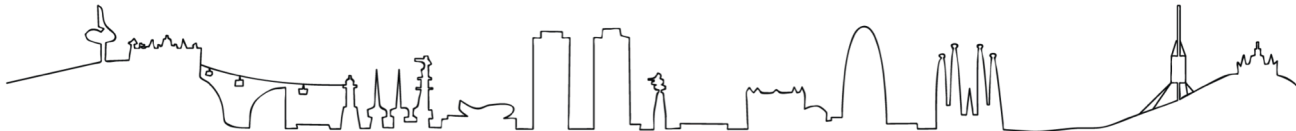
# Subscribing with Process Builder

Process Name \* API Name \* ⓘ

Description

The process starts when \*

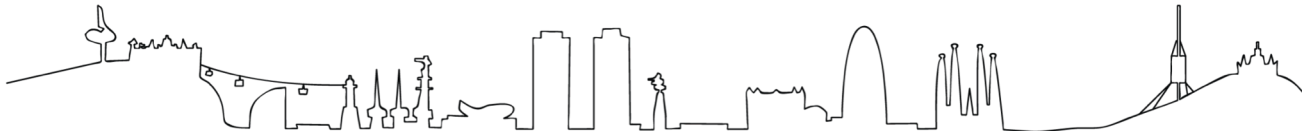
A platform event occurs ▼



# From outside of Salesforce



CometD  
REST API  
SOAP API  
Bulk API





# From outside of Salesforce



## Subscribing

```
import com.salesforce.emp.connector.BayeuxParameters;  
import com.salesforce.emp.connector.EmpConnector;  
import com.salesforce.emp.connector.TopicSubscription;
```



## Publishing

```
import com.force.api.ApiVersion;  
import com.force.api.ApiConfig;  
import com.force.api.ForceApi;
```



# Demo

Time to take an important decision





heroku

#dreamOle18\_noOnion  
#dreamOle18\_withOnion

Event Bus

salesforce



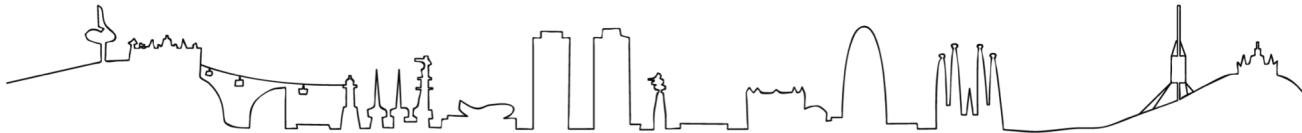
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dreamOle<sup>®</sup>



# Q & A



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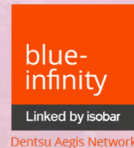
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