



LEAP 

2018 USER CONFERENCE

# Building Integrations with Workfront Event Subscriptions

Don't call us, we'll call you

# Presenter



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# Event Subscriptions

## Webhooks

- Am I in the right place?
- Event Subscriptions vs Subscriptions vs Event Notifications
- We assume you are a developer (or at least pretty technical)



# What and Why



## What are Event Subscriptions

- Webhooks?
- Workfront sends a payload when events happen
- Events & Resources

## Why should I use them?

- Near real-time
- Fewer API calls / Less polling
- Easier
- Examples of good use cases:

WEBHOOKS





SEARCH

- Administration and Setup
- Agile
- Dashboards
- Documents
- Getting Started
- Gantt Chart
- Issues
- Mobile Apps
- People, Teams, and Groups
- Portfolios
- Projects
- Reporting
- Reports

## Event Subscription Resource Fields

### Event Subscription Resource Fields

Event subscription resource fields represent triggers for events that result in an event subscription or an outbound message to a configured endpoint. When a resource field is edited, an UPDATE event is triggered.

The following table lists the fields available for event subscription resources:

Resource	objCode	Field
Assignment	ASSGN	actualWorkCompleted
		actualWorkPerDayStartDate
		assignedByID
		assignedToID
		assignmentPercent
		avgWorkPerDay
		customerID
		isPrimary
		isTeamAssignment
		opTaskID
		projectedAvgWorkPerDay
		projectedUserAllocationPercentage
		projectID
		roleID
		status
		taskID
		teamID

# Help Articles

## Where can I get more information

- [developers.workfront.com](https://developers.workfront.com)
- “Event Subscription API”
- “Event Subscription Resource Fields”
- “Setting Up Your Event Subscription Endpoint”



# Events and Resources

## Events

- CREATE
- UPDATE
- DELETE
- SHARE

## Resources

- Portfolio
- Program
- Project
- Task
- Issue (OPTASK)
- Document
- User
- Assignment
- Expense
- Hour
- Timesheet
- Note [comment]
- Report (PLTSEC)
- Dashboard (PLTTAB)
- Template
- Company



# HELP

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Help Home > Idea Exchange

## Idea Exchange

Welcome to the Idea Exchange! This is where you help us improve the product with your ideas. Feel free to browse around to see product ideas others have submitted. Authorized Support Contacts can vote and comment on as many of the ideas as they like, but you can only vote (up or down) for each idea once.

Once an idea has received the critical vote threshold of 45 votes, Workfront Product Management will address whether the idea is Planned or Not Planned for an upcoming release. Product management will give definitive communication on that idea within 30 days of the idea surpassing the critical mass threshold. There is no guarantee of any product management communication until an idea achieves the critical vote threshold. An idea that is below the critical vote threshold may also be included in an upcoming release as the idea may have already been included on the product roadmap. You can always reference [workfront.com/release](#) to see the latest features in the upcoming release.

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# DEMO

How do I create them? How do I use them?



# Retries

## How do they work?

- Payloads that fail to send will be retried
  - Every 10 minutes for up to 2 hours
- “Fail to send” = did not receive “200 OK”
  - Send response BEFORE you process



# Important Considerations

## Be aware...

- Event Subscriptions are **not** real-time
  - ~Near real-time
- At-Least-Once Policy
- Not necessarily in order
  - Asynchronous
  - Use “eventTime” for ordering



```
"eventType": "UPDATE",
"subscriptionId": "8a0d839d5ef32c9a015ef336a5ed0002",
"eventTime": {
  "nano": 998000000,
  "epochSecond": 1507319336
},
"newState": {
  "ID": "59d7ddf7000002322d791eb08bafddfb",
  "name": "EventSub Test updated",
  "objCode": "PROJ",
  "entryDate": "2017-10-06T13:48:07.776-0600",
  "accessorIDs": [
    "544820df0000142362741fc0c368de19"
  ],
  "lastUpdateDate": "2017-10-06T13:48:56.980-0600",
  "groupID": "544820df0000140f6a9c1faa7cacadd3"
```

# Old Value / New Value

## How to make sense of a payload

- Only for UPDATE events
- Identifies what was updated and why
- Original vs Retried payload?
  - eventTime
  - It should not matter
- Can I see payloads that have permanently failed?
  - No (we are working on it)
  - Use occasional polling

```
"status": "CUR",
"parameterValues": {}
},
"oldState": {
  "ID": "59d7ddf7000002322d791eb08bafddfb",
  "name": "EventSub Test 180fd595-63fb-4fa9-bd47-58",
  "objCode": "PROJ",
  "entryDate": "2017-10-06T13:48:07.776-0600",
  "accessorIDs": [
    "544820df0000142362741fc0c368de19"
  ],
  "lastUpdateDate": "2017-10-06T13:48:07.792-0600",
  "groupID": "544820df0000140f6a9c1faa7cacadd3",
```





# Event Subscriptions can do most anything!

It can even set your mood



# So What?

## Why should I use them?

- They are super wicked-awesome
- All the cool kids are using them
- Your mom told you to
- We're actively improving them
- Filtering examples are coming soon!



What does the future hold?





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EXPERIENCE ZONE

# PRODUCT BOOTH

We want your ideas, feedback, and to give you a sneak peek of what's coming in 2018!





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