

# Document and Process Properties

Brad Detlefsen

Senior Integration Captain

boomi





# Brad Detlefsen

**Global Content and Engagement Manager**  
**Senior Integration Captain**

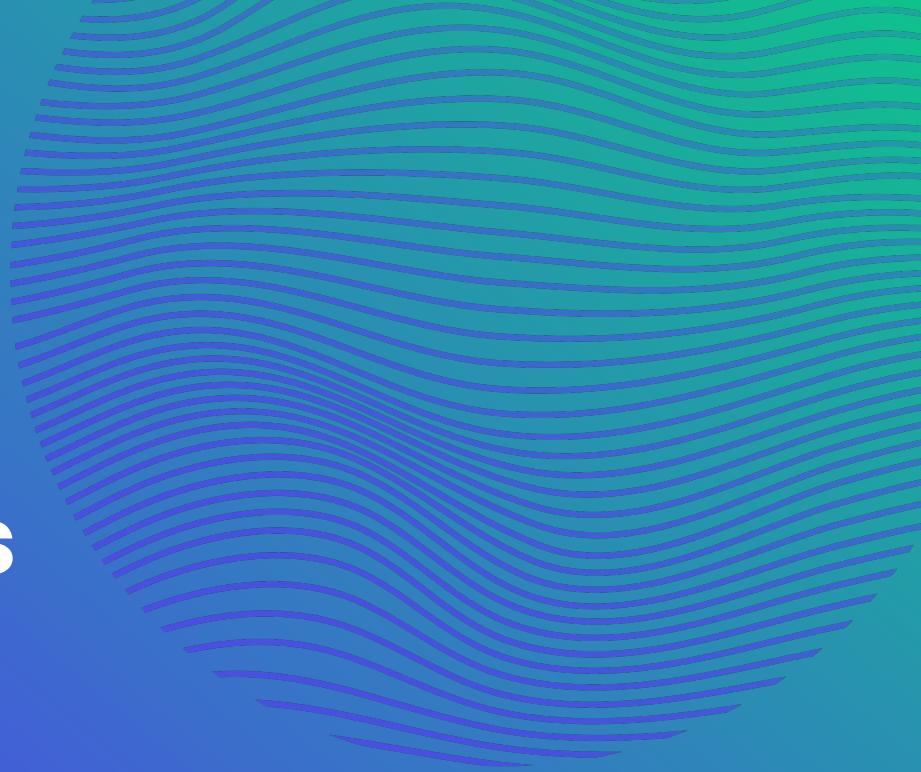
## Background

- Joined Boomi in 2016
- 24 years of professional experience:
  - Boomi Services Integration Consultant (6 years)
  - Systems Engineer (Defense Industry)
- Based in southeastern Pennsylvania, USA

# Agenda

- 01 Properties Basics
- 02 Boomi Documents
- 03 Document Properties
- 04 Process Properties
- 05 Using Properties

# Properties Basics



# What Are Properties?

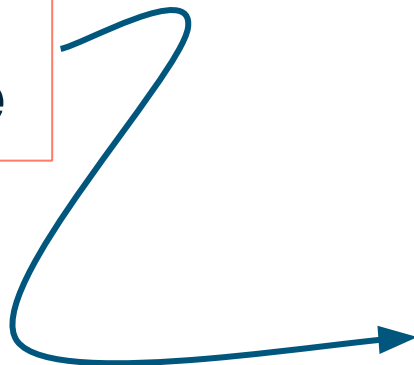
## Key – Value Pairs

<u>Key</u>	<u>Value</u>
File Name	iTunesSearch.txt
Execution ID	12345-2022.01.01
ISA ID	ABCD9876

**Essential** for building integrations

# Why Use Properties?

**Set**  
**Assign Value**



**Get**  
**Retrieve Value**

# Property Scope

Once a Property is **SET...**

Where is it available for **GET?**

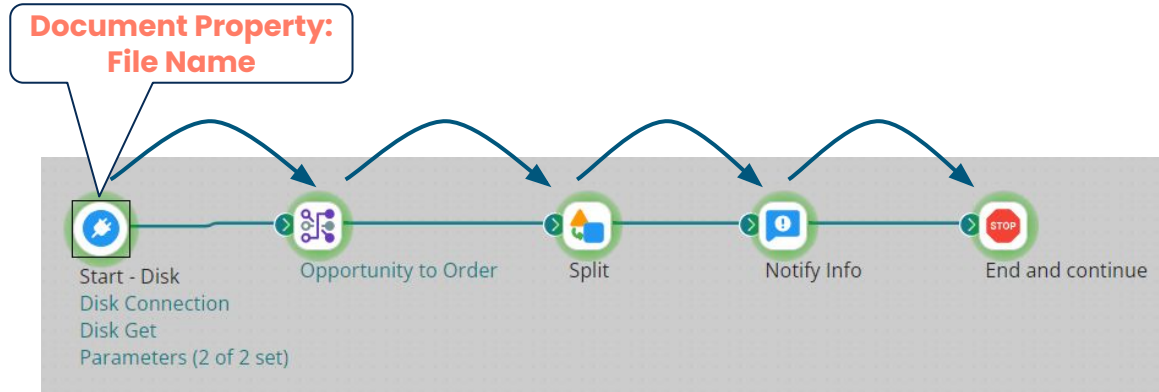
**Document**  
Scope

**Execution**  
Scope

# Document Scope

After **SET...**

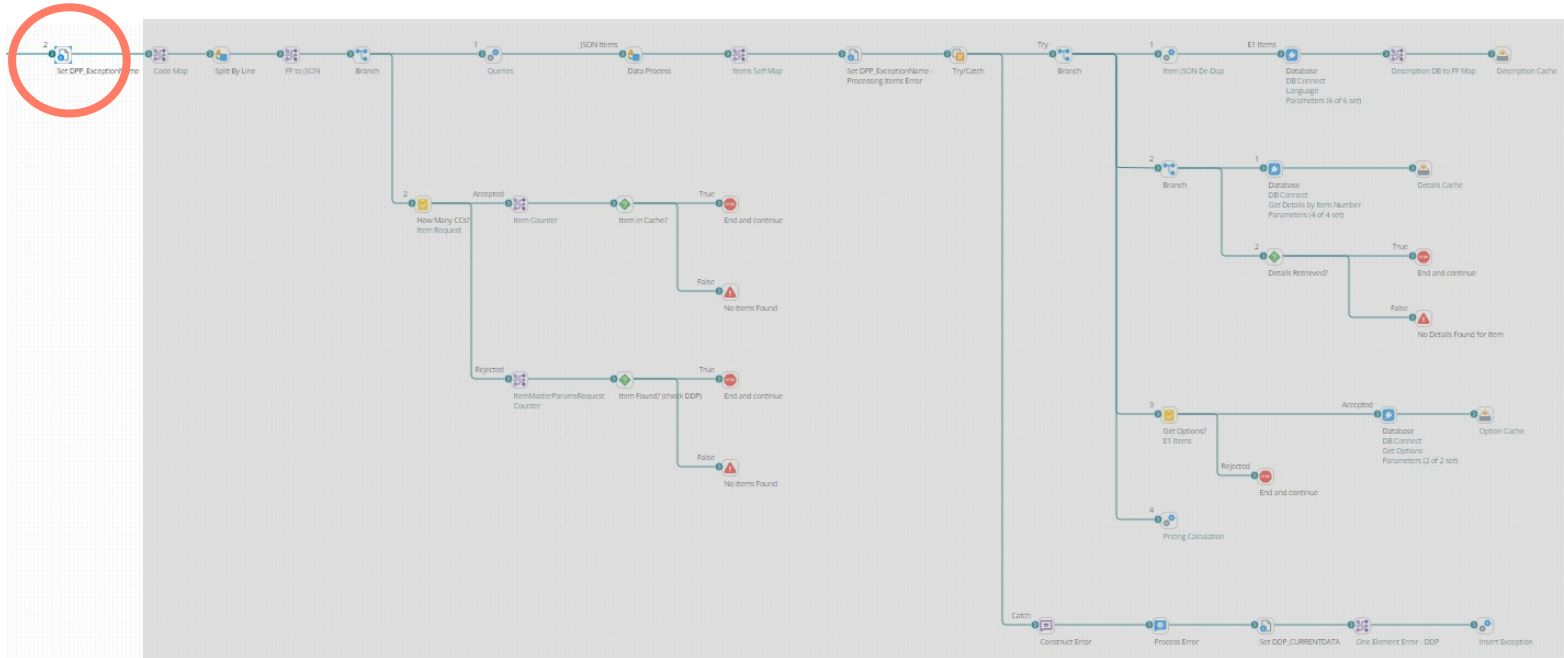
Document Available → Property Available





# Execution Scope

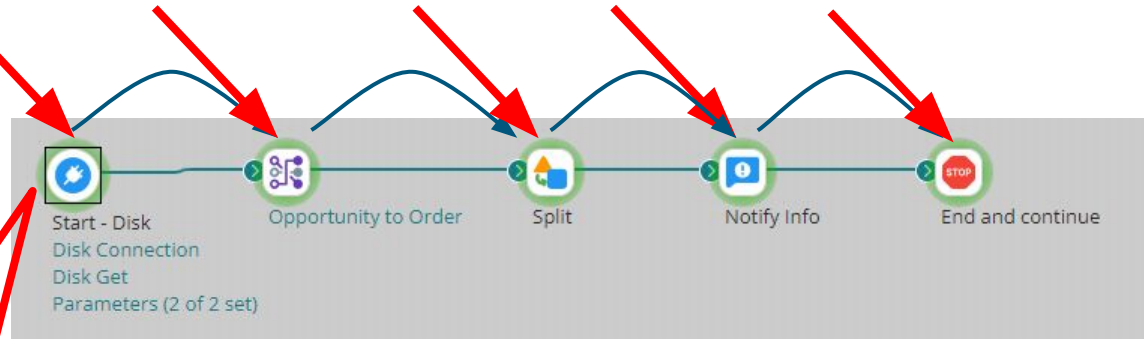
After **SET...**  
Available for entire execution





# Boomi Documents

# The Basics



First Name	Last Name	Email	Phone	
John	Doe	johndoe@email.com	555.555.5555	
Jane	Doe	janedoe@email.com	555.555.4444	
Ron	Doe	rondoe@email.com	555.555.3333	
Jen	Doe	jendoe@email.com	555.555.2222	

# Anatomy of a Document

First Name	Last Name	Email	Phone
John	Doe	johndoe@email.com	555.555.5555

One Document - One Record

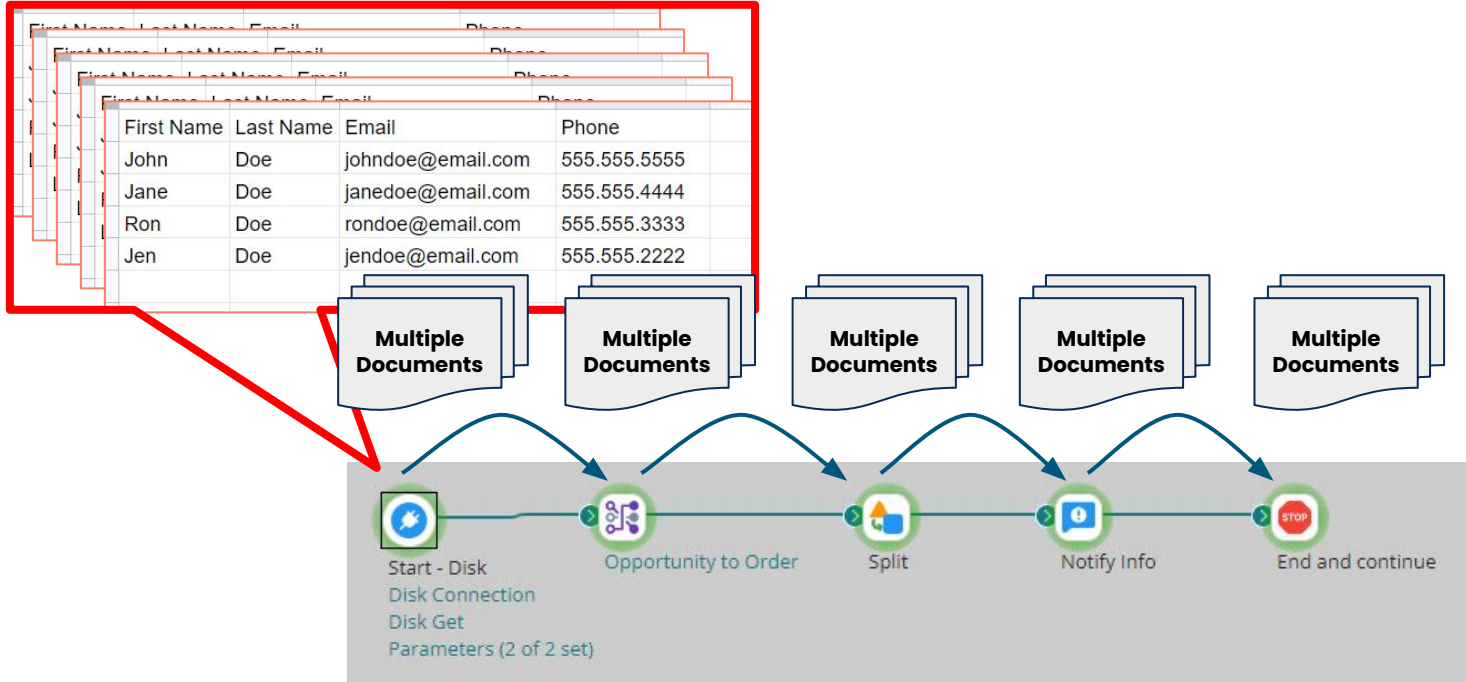
First Name	Last Name	Email	Phone
John	Doe	johndoe@email.com	555.555.5555
Jane	Doe	janedoe@email.com	555.555.4444
Ron	Doe	rondoe@email.com	555.555.3333
Jen	Doe	jendoe@email.com	555.555.2222

One Document - Multiple Records

First Name	Last Name	Email	Phone
John	Doe	johndoe@email.com	555.555.5555
Jane	Doe	janedoe@email.com	555.555.4444
Ron	Doe	rondoe@email.com	555.555.3333
Jen	Doe	jendoe@email.com	555.555.2222

Batch of 5 Documents - Multiple Records Each

# Documents Flow in Batch



# Document Split

One Document  
4 Records

John	Doe	johndoe@email.com	555.555.5555
Jane	Doe	janedoe@email.com	555.555.4444
Ron	Doe	rondoe@email.com	555.555.3333
Jen	Doe	jendoe@email.com	555.555.2222



Flat File Split

4 Documents 1  
Record Each

John	Doe	johndoe@email.com	555.555.5555
------	-----	-------------------	--------------

Jane	Doe	janedoe@email.com	555.555.4444
------	-----	-------------------	--------------

Ron	Doe	rondoe@email.com	555.555.3333
-----	-----	------------------	--------------

Jen	Doe	jendoe@email.com	555.555.2222
-----	-----	------------------	--------------

# Document Properties

A decorative graphic on the right side of the slide. It consists of a large circle filled with numerous thin, horizontal, wavy lines that create a ripple effect. The background of the entire slide is a smooth gradient from purple on the left to orange on the right.

# Document Properties: MetaData

**Data** is a Boomi document



```
<catalog>  
  <book id="bk101">  
    <author>Gambardella, Matthew</author>  
    <title>XML Developer's Guide</title>  
    <genre>Computer</genre>  
    <price>44.95</price>  
    <publish_date>2000-10-01</publish_date>  
    <description>An in-depth look at creating applications  
with XML.</description>  
  </book>  
  <book id="bk110">  
    <author>O'Brien, Tim</author>  
    <title>Microsoft .NET: The Programming Bible</title>  
    <genre>Computer</genre>  
    <price>36.95</price>  
    <publish_date>2000-12-09</publish_date>  
    <description>Microsoft's .NET initiative is explored in  
detail in this deep programmer's reference.</description>  
  </book>  
</catalog>
```

**MetaData**  
Describes that document  
(but isn't part of the data)

File Name	Catalog.xml
File Size	1000 bytes



# Document Property Types

**Standard**  
**Document**  
**Properties**

**Dynamic**  
**Document**  
**Properties**

# Standard Document Properties

Built-in Boomi Interaction

Predefined

Choose Property

Property Type	Document Property
Source Type ⓘ	Connectors
Connector*	Connectors
	Trading Partners Information
	Meta Data

# Connector Document Properties

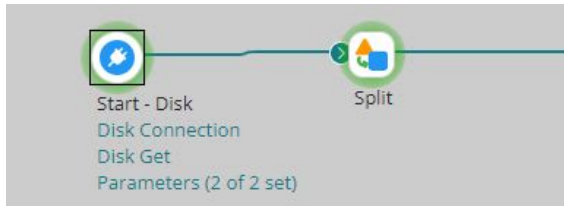
Disk v2 Connector

2 Properties Available

Choose Property

Property Type	Document Property
Source Type ⓘ	Connectors
Connector*	Disk v2
Property*	-Select Property- -Select Property- File Name Directory

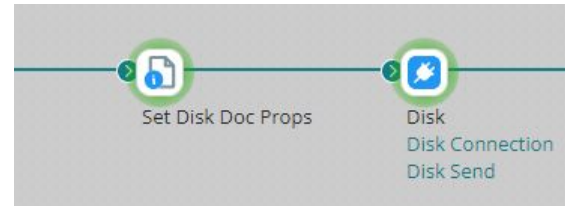
Data Inbound:



**Boomi** writes values  
**Developer** reads values

**Vs.**

Data Outbound:



**Developer** writes values  
**Boomi** reads values

# “Meta Data” Document Properties

**Boomi** writes values  
**Developer** reads values

Application Status  
Code  
(HTTP Response)

Try/Catch  
Message  
Error Handling

## Choose Property

Property Type

Document Property

Source Type ⓘ

Meta Data

Property\*

-Select Base Property-

-Select Base Property-

Application Status Code

Application Status Message

Business Rules Result Message

Cleanse Result Message

Listener Batch Index

Listener Batch Payload Sequence

Size

Try/Catch Message

# Trading Partner (EDI) Document Properties

**Choose Property**

Property Type: Document Property

Source Type ⓘ: Trading Partners Information

Connector\*: X12

Property Group\*:  
-Select Property-  
-Select Property-  
Interchange Functional Group  
Transaction Set

- Custom
- EDIFACT
- Multiple
- HL7
- ODETTE
- RosettaNet
- TRADACOMS
- X12

Envelope Information  
and  
Transaction Set Information

# Dynamic Document Properties

Dynamic = **Developer** Defined

Choose Property

Property Type	Dynamic Document Property
Property Name*	DDP_TEST
Default Value	Default Value Here

Per Document

No enforced SIZE or QUANTITY limits

**Warning:** Each value consumes memory

# Process Properties



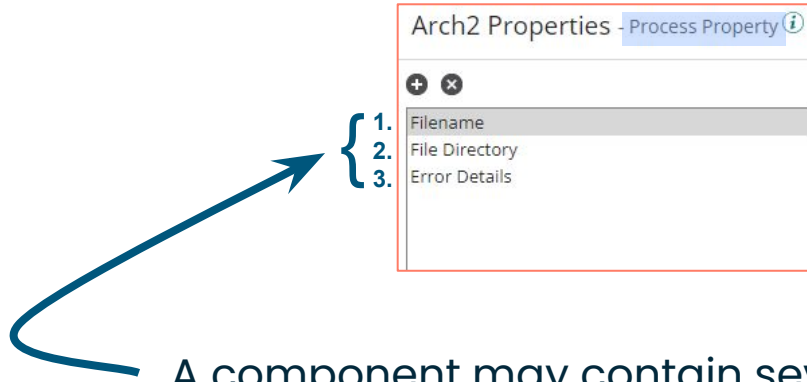
# Process Property Types

**Process  
Property  
Components**

**Dynamic  
Process  
Properties**



# Process Property Component



A component may contain several Properties

---

Each Property is an extendable default value

---

Can be temporarily overwritten during execution

# Dynamic Process Properties

Dynamic = **Developer** Defined

### Choose Property

Property Type	Dynamic Process Property
Property Name*	DPP_LAST_RECORD
Options	<input type="checkbox"/> Persist this property

Per Execution

---

No enforced SIZE or QUANTITY limits

---

**Warning:** Each value consumes memory

# Persisting Properties

Folder [Add Description](#)

Key ab1bf1c6-37e3-4408-9176-d0d931e3b525

Data Type

Persist  Select to persist the value across subsequent executions

Label

Help Text

Default Value

### Choose Property

Property Type

Property Name\*

Options  Persist this property

Process Properties (both kinds) can persist **ACROSS EXECUTIONS**

Value **SET** in Execution 1...

**READ** in Execution 2!

# Persisted DPP Example

## Use Case:

Query recent orders by ID

## Process Execution:

Use DPP\_LAST\_RECORD = **299** in Query

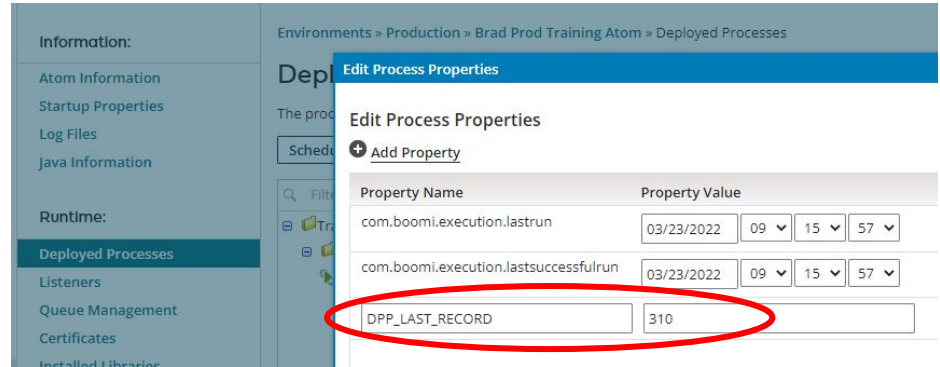
Last Retrieved Record = **310**

Set DPP\_LAST\_RECORD = **310**

## Next Execution:

Use DPP\_LAST\_RECORD = **310** in  
Query

View and Edit value in Atom Management:



The screenshot shows the 'Edit Process Properties' dialog box in the Atom Management interface. The dialog box is titled 'Edit Process Properties' and has a blue header. Below the header, there is a table with two columns: 'Property Name' and 'Property Value'. The table contains three rows of properties. The first row is 'com.boomi.execution.lastrun' with a value of '03/23/2022 09:15:57'. The second row is 'com.boomi.execution.lastsuccessfulrun' with a value of '03/23/2022 09:15:57'. The third row is 'DPP\_LAST\_RECORD' with a value of '310'. The 'DPP\_LAST\_RECORD' row is circled in red. The background of the interface shows a sidebar with 'Deployed Processes' selected and a main area with 'Edit Process Properties' and 'Add Property' buttons.

Property Name	Property Value
com.boomi.execution.lastrun	03/23/2022 09:15:57
com.boomi.execution.lastsuccessfulrun	03/23/2022 09:15:57
DPP_LAST_RECORD	310

(Initialized by executing a deployed process)



# Using Properties

# Dynamic Property Naming Tips



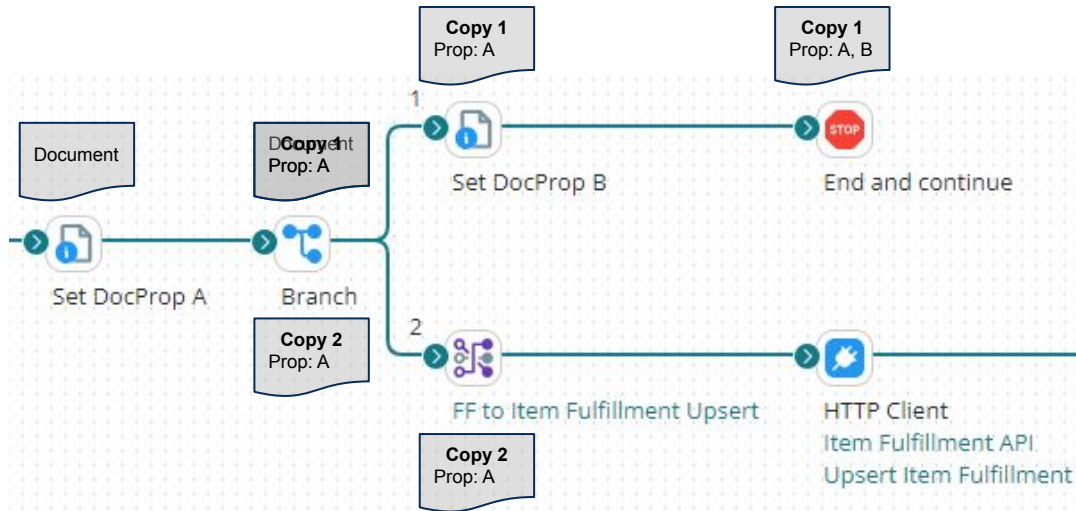
Name describes contents 

ALL\_CAPS\_WITH\_UNDERSCORE 

“DDP” or “DPP” (or one of your own) 

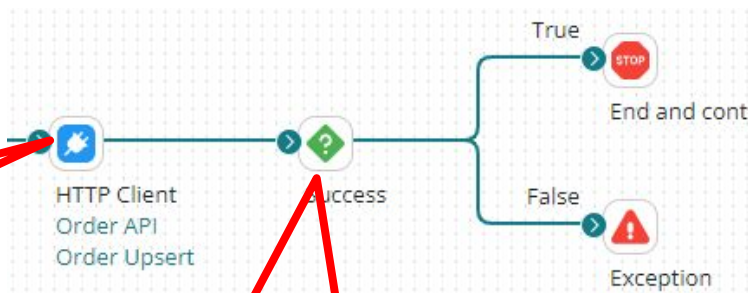
# Document Properties and Branches

Document Properties set in earlier branch  
NOT available in later branches\*



\*Also applies to  
Decision, Route, Business Rules....

# Doc Prop: Application Status Code



Was my REST API call successful?

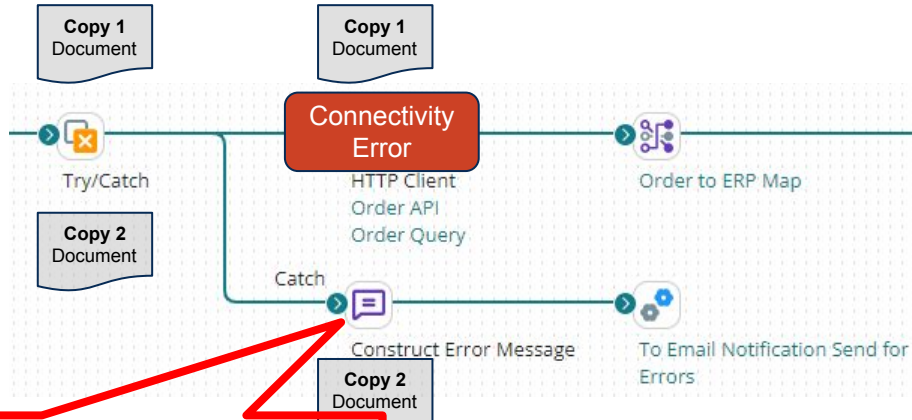
Return HTTP Errors	<input checked="" type="checkbox"/>
Follow Redirects	<input type="checkbox"/>
Return HTTP Responses	<input checked="" type="checkbox"/>
Process Response as MIME	<input type="checkbox"/>

First Value	<input type="text" value="Document Property - Base - Application Status Code"/>
Comparison	<input type="text" value="Less Than"/>
Second Value	<input type="text" value="Static value of '300'"/>

<b>Choose Property</b>	
Property Type	<input type="text" value="Document Property"/>
Source Type ⓘ	<input type="text" value="Meta Data"/>
Property*	<input type="text" value="Application Status Code"/>



# Doc Prop: Base Try/Catch



Message

Error Details:  
{1}

Variables

+

Catch =  
Connectivity Error

Parameter Value

Type

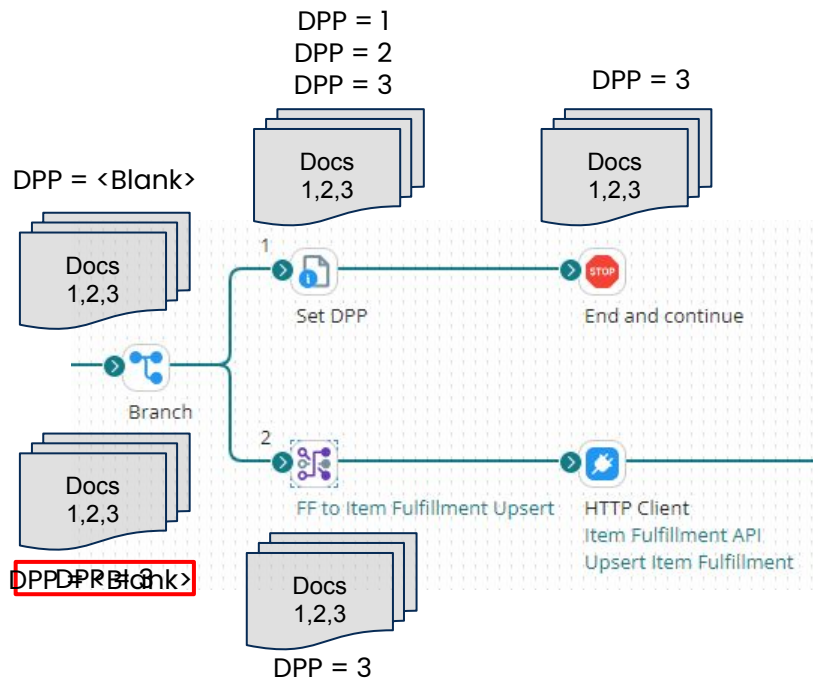
Document Property

Document Property

Base - Try/Catch Message

# Dynamic Process Properties and Branches

**DANGER:**  
DPP Overwritten  
by Batches of  
Docs



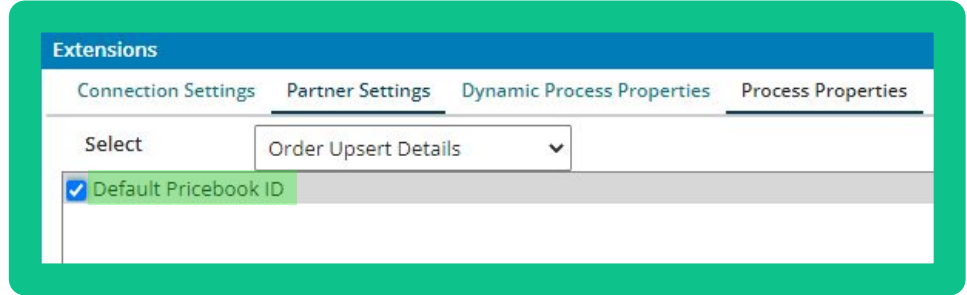
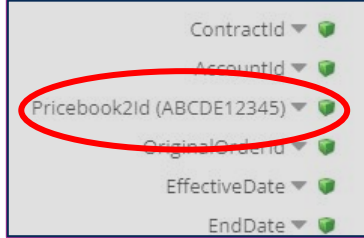
How to traverse  
branches?

CACHE!

Note:  
Flow Control / Run  
Individually can  
**significantly**  
degrade performance

# Process Property: Map Default

Map Destination Profile  
**Traditional Default Value**

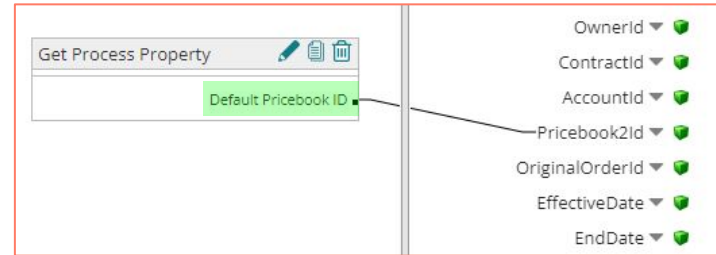


OR...

Create a Process Property

Data Type	String
Persist	<input type="checkbox"/> Select to persist the value across s
Label	Default Pricebook ID
Help Text	Order Upsert Pricebook
Default Value	ABCDE12345

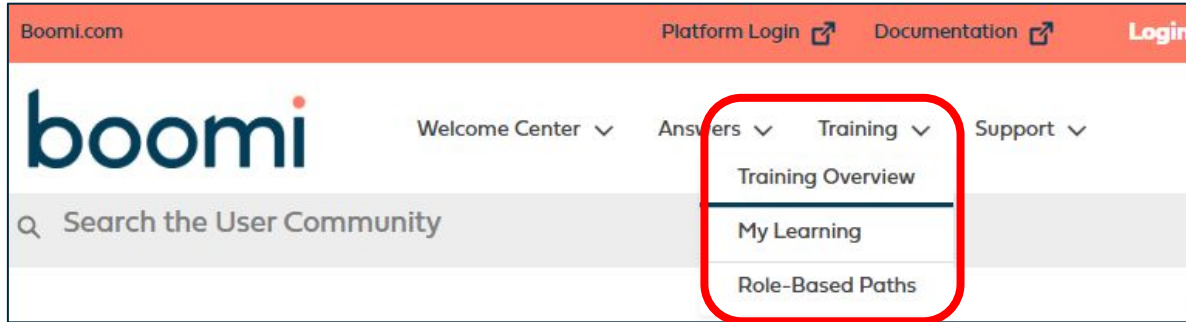
GET with Map Function



# Additional Resources



# Training and Certification



- Free Training AND Free Certifications
- Fundamentals for success
- Learning Library → Integration Developer Trac



# Role-Based Paths



## Project Manager

This path is set for those responsible for managing and delivering Booml projects:

- Project initiation and management
- Team member coordination and communication

[Learn More](#)



## Architect

This path will benefit those users who are responsible for the Booml Runtime architecture:

- Architecture analysis and strategy
- Installation and configuration of Booml Runtimes

[Learn More](#)



## Developer

This path guides those users who will be responsible for building integrations on the Booml platform:

- Requirements and integration solution design
- Integration development and testing

[Learn More](#)



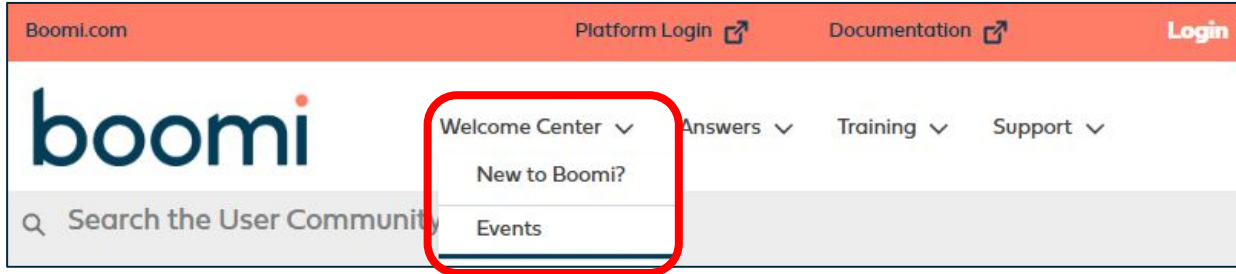
## Support & Maintenance

This path enables those who will be responsible for the platform and integration post deployments:

- Platform monitoring and release management
- Integration monitoring, alerts, and troubleshooting

[Learn More](#)

# Events



## Events Catalog

Missed an event? Access previous event recordings as well as handouts that were shared with event attendees.

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## User Groups

Engage with other Boomi users to discuss products, processes, features, functionalities, best practices, tips and tricks, and much more!

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Discover a wide array of Boomi events, ranging from Boomi conferences and events where Boomi representatives will be present to virtual webinars.

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# Help!



- **Boomi Support**
  - Defect support and assistance with errors for subscribers
  
- **Dedicated Boomi Experts:**
  - Boomi Professional Services
  - Jumpstart, Technical Architecture, or Platform Consulting



# Questions?





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