Document and Process Properties

Brad Detlefsen
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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

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Agenda

01 Properties Basics

02 Boomi Documents

03 Document Properties

04 Process Properties

05 Using Properties

Properties Basics

What Are Properties?

Key - Value Pairs

Key	Value
File Name	iTunesSearch.txt
Execution ID	12345-2022.01.01
ISA ID	ABCD9876

Essential for building integrations

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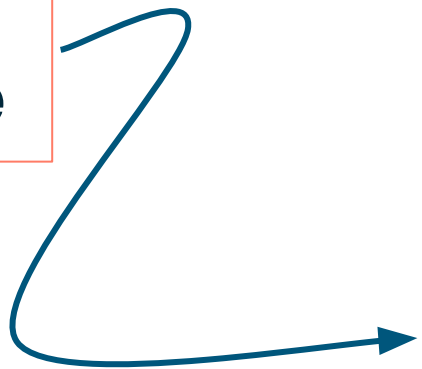
Why Use Properties?

Set

Assign Value



Get

Retrieve Value

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Property Scope

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

Where is it available for **GET**?

Document Scope	**Execution** Scope

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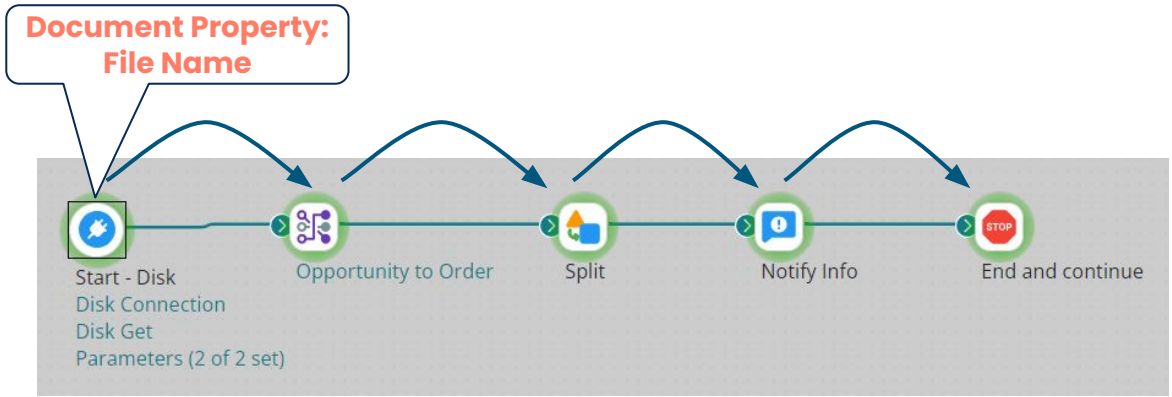
Document Scope

After **SET**...

Document Available → Property Available



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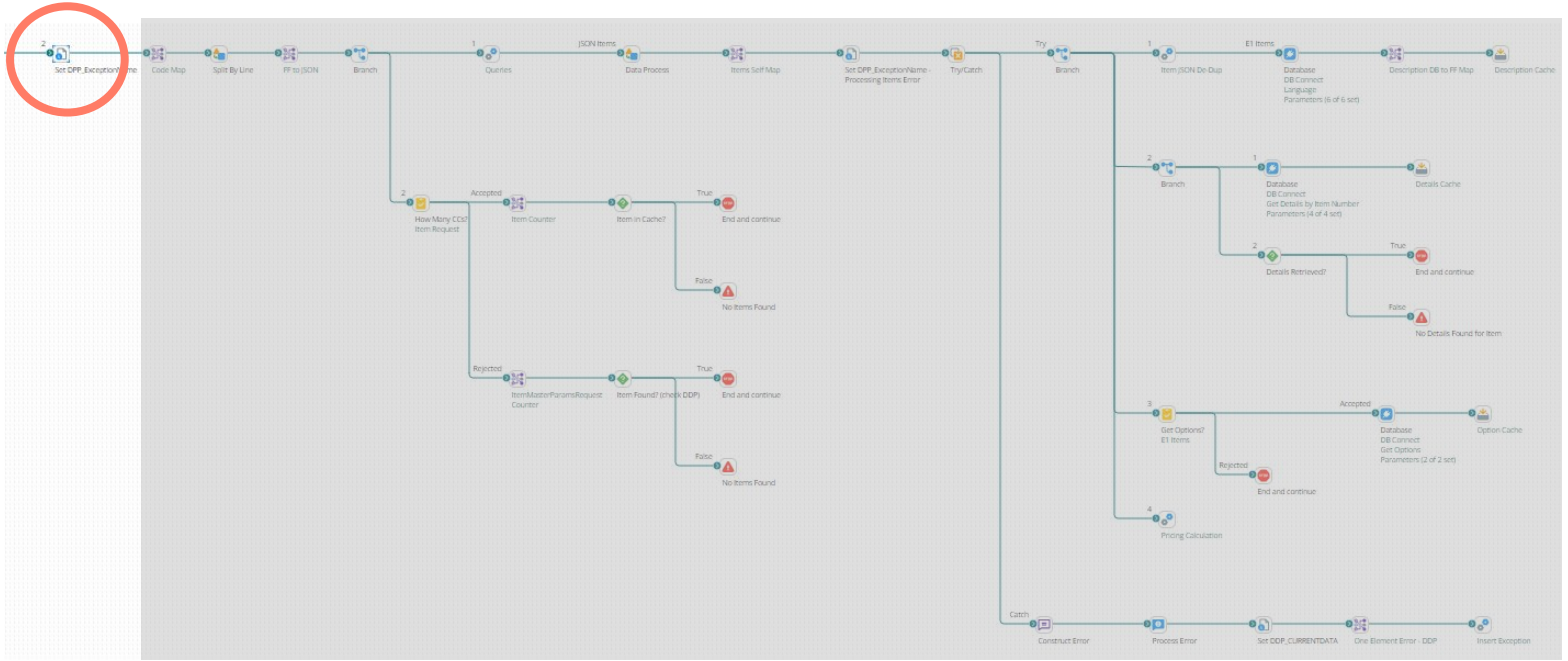
Execution Scope

After **SET**...

Available for entire execution



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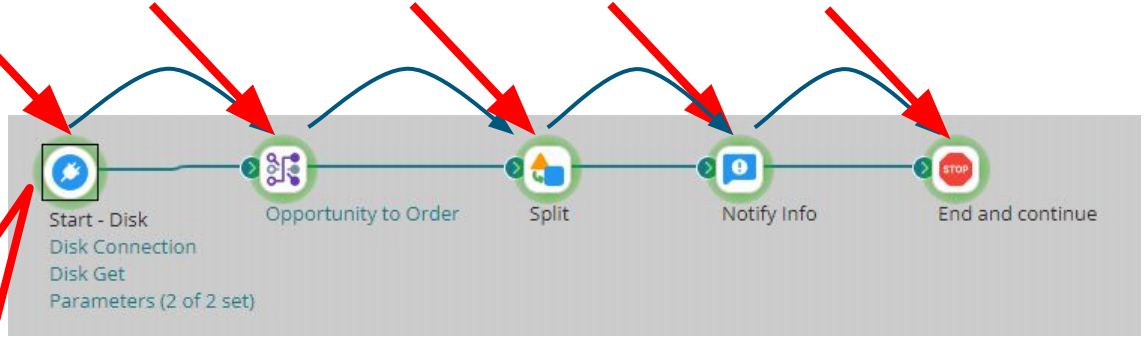
Boomi Documents

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

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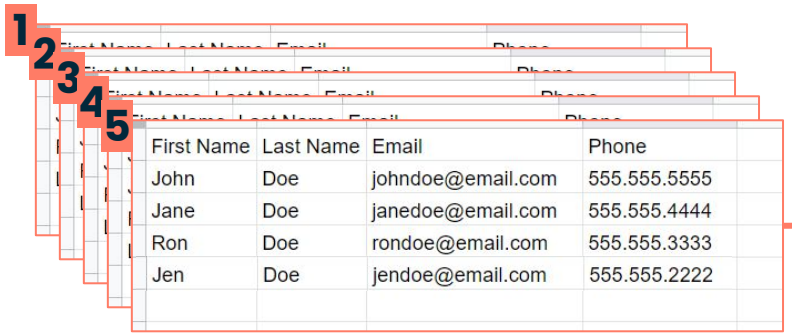
Anatomy of a Document

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

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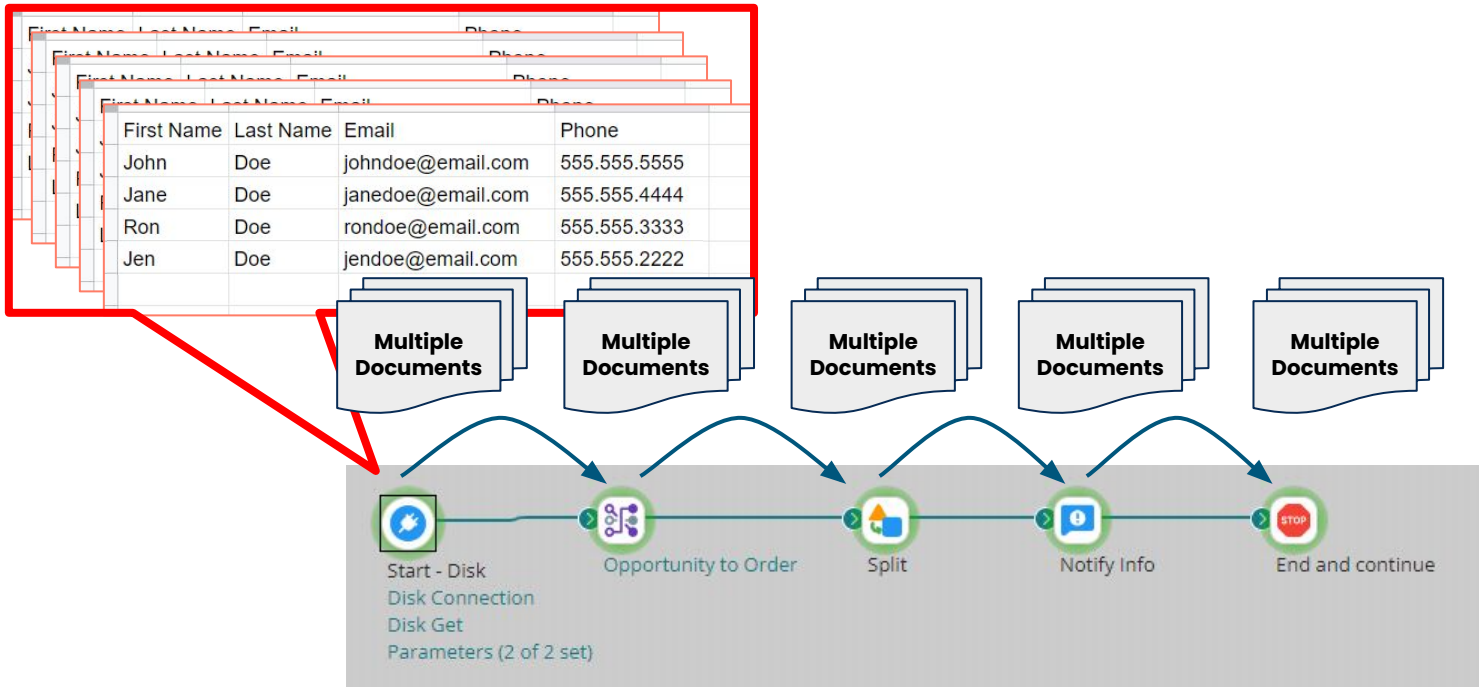
Documents Flow in Batch



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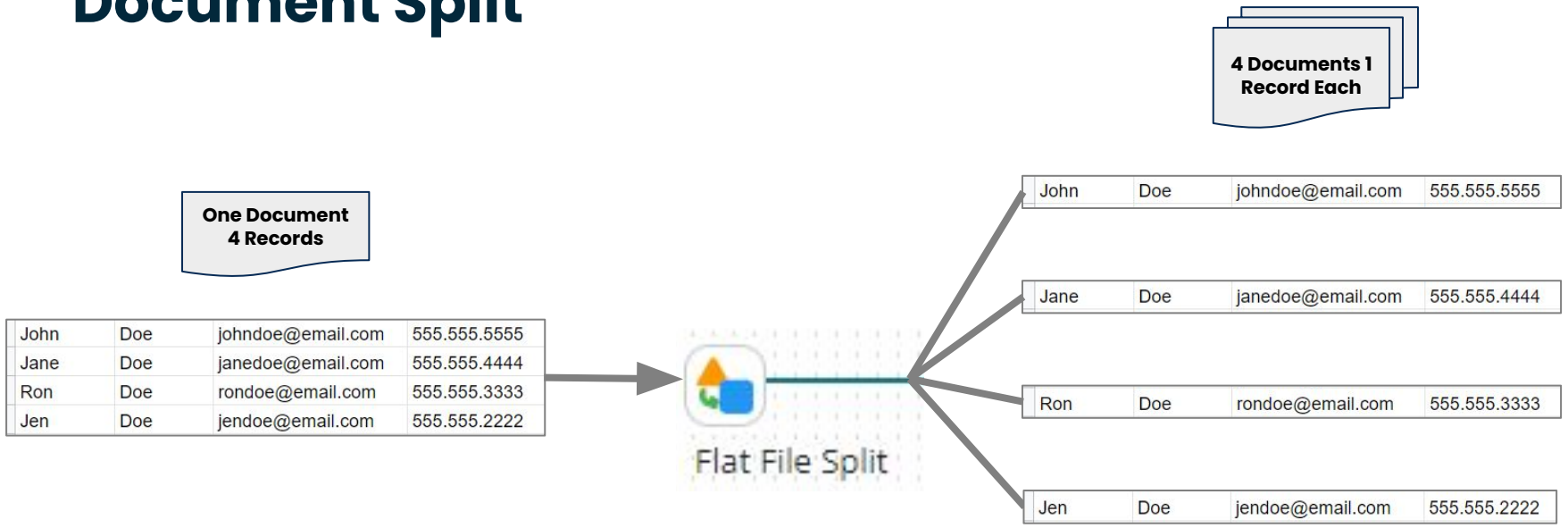
Document Split



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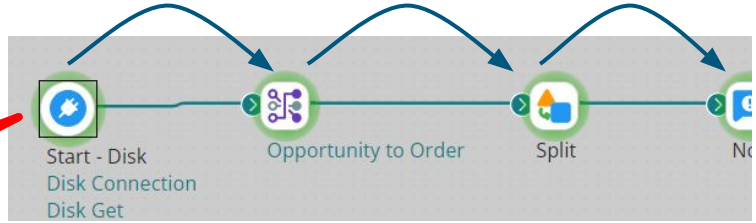
Document Properties

Document Properties: MetaData

Data is a Boomi document

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      <genre>Computer</genre>
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      <publish_date>2000-12-09</publish_date>
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      detail in this deep programmer's reference.</description>
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```

MetaData

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

File Name	Catalog.xml
File Size	1000 bytes

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Document Property Types

Standard
Document Properties

Dynamic
Document Properties

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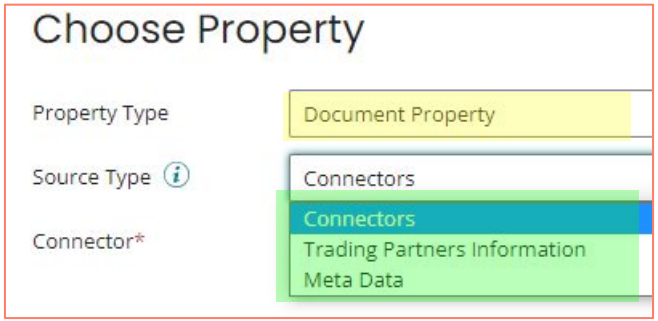
Standard Document Properties

Built-in Boomi Interaction

Predefined



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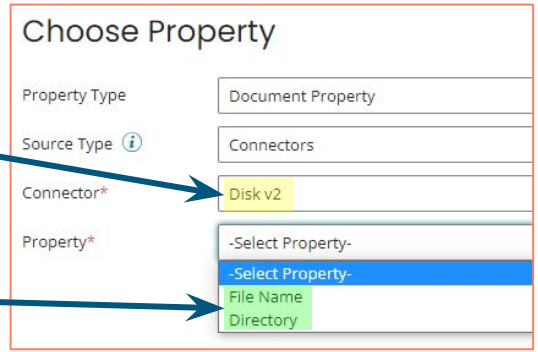
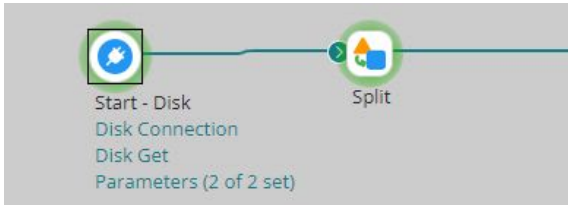
Connector Document Properties

Disk v2 Connector

2 Properties Available



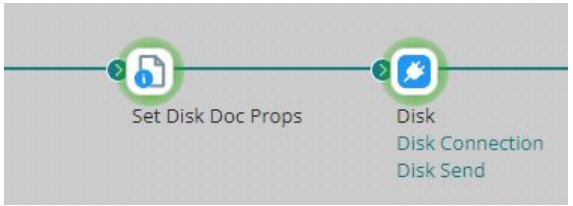
Data Inbound:



Boomi writes values
Developer reads values

Vs.

Data Outbound:



Developer writes values
Boomi reads values

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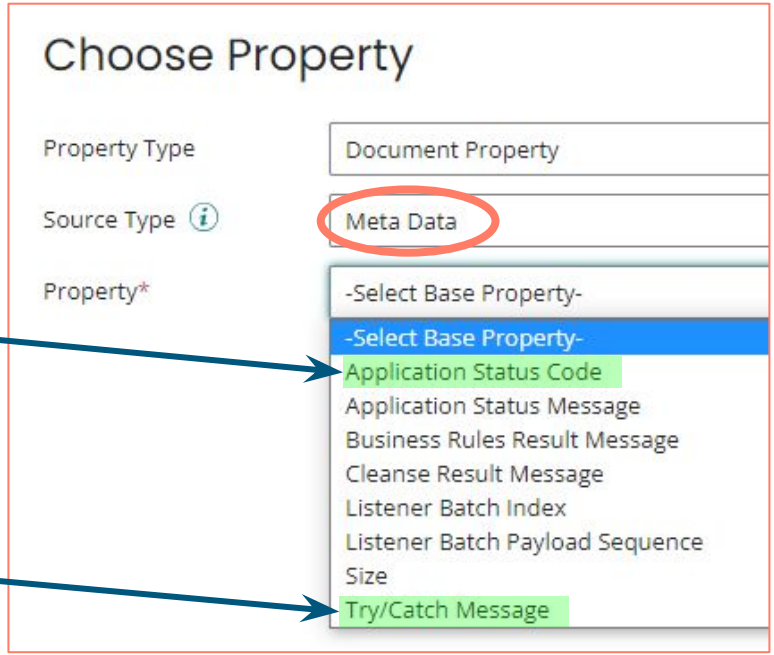
“Meta Data” Document Properties

Boomi writes values
Developer reads values

Application Status Code
(HTTP Response)

Try/Catch Message
Error Handling



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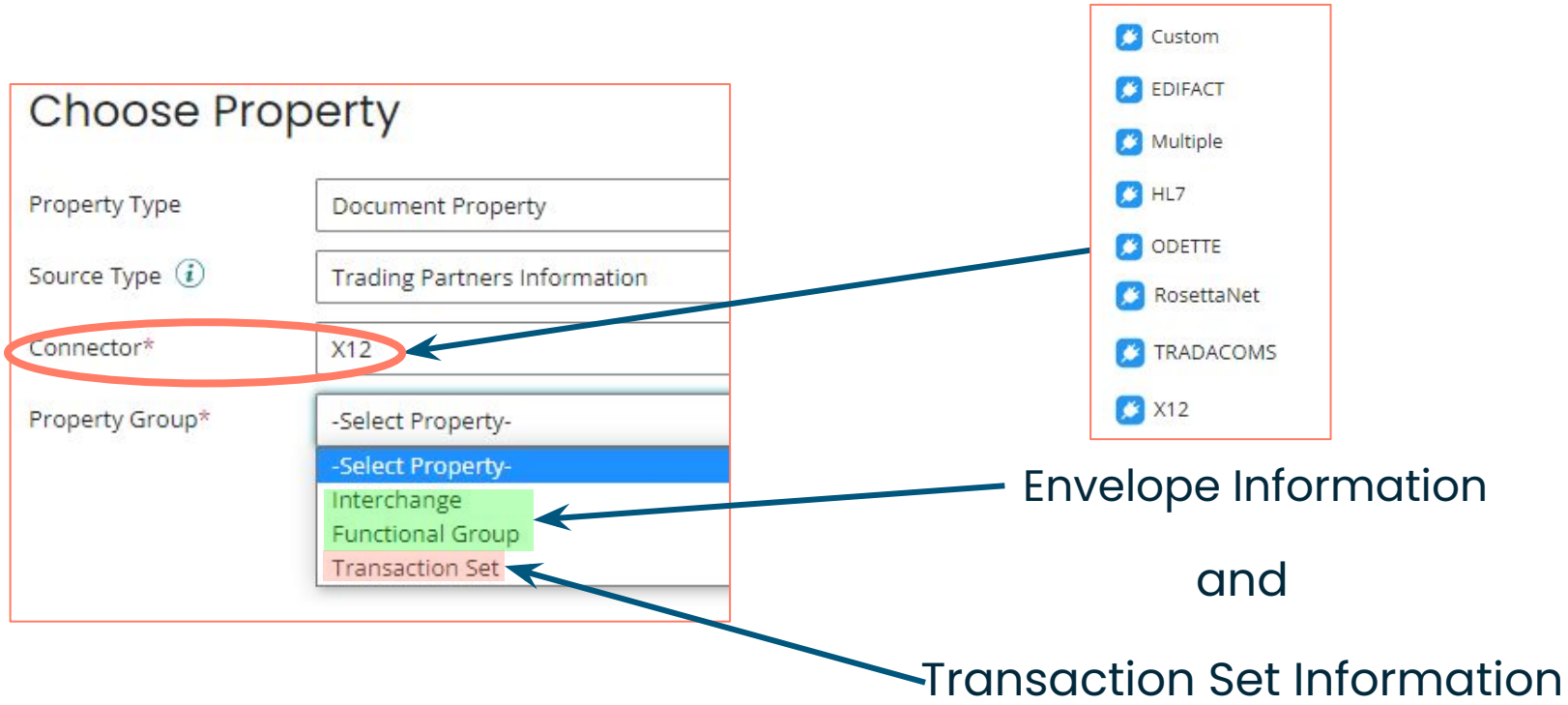
Trading Partner (EDI) Document Properties



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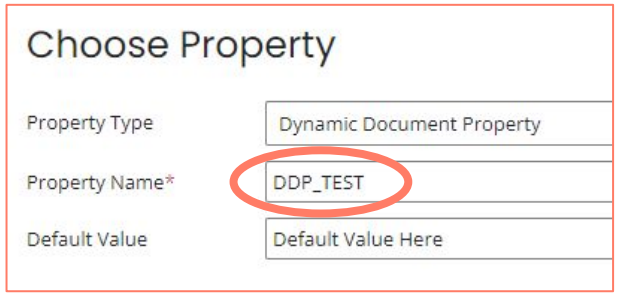
Dynamic Document Properties

Dynamic = **Developer** Defined



Per Document

No enforced SIZE or QUANTITY limits

Warning: Each value consumes memory

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Process Properties

Process Property Types

Process Property Components

Dynamic Process Properties

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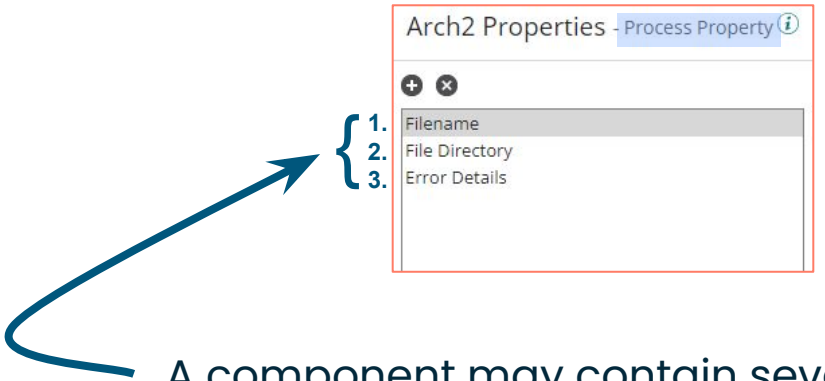
Process Property Component



A component may contain several Properties

Each Property is an extendable default value

Can be temporarily overwritten during execution

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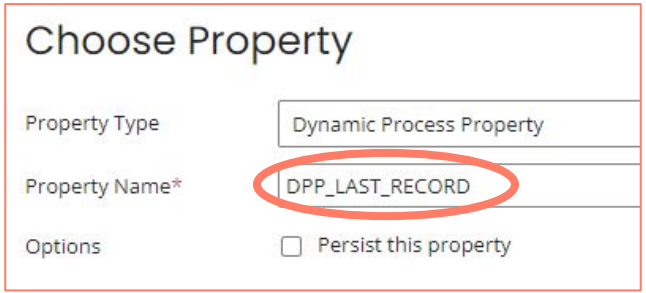
Dynamic Process Properties

Dynamic = **Developer** Defined



Per Execution

No enforced SIZE or QUANTITY limits

Warning: Each value consumes memory

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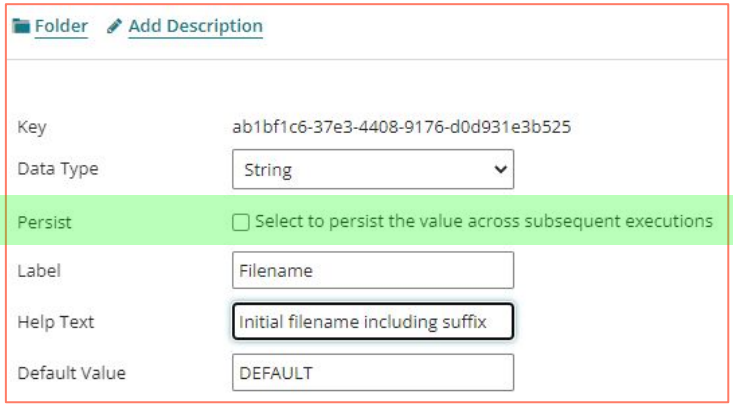
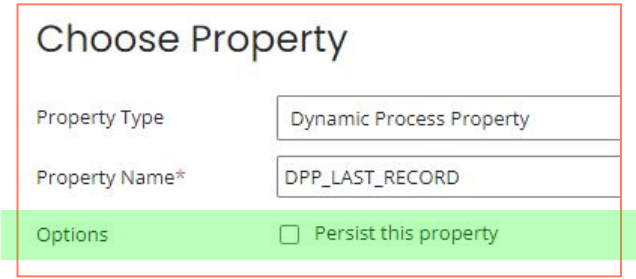
Persisting Properties





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

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

READ in Execution 2!

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Persisted DPP Example

Use Case:
Query recent orders by ID

Process Execution:

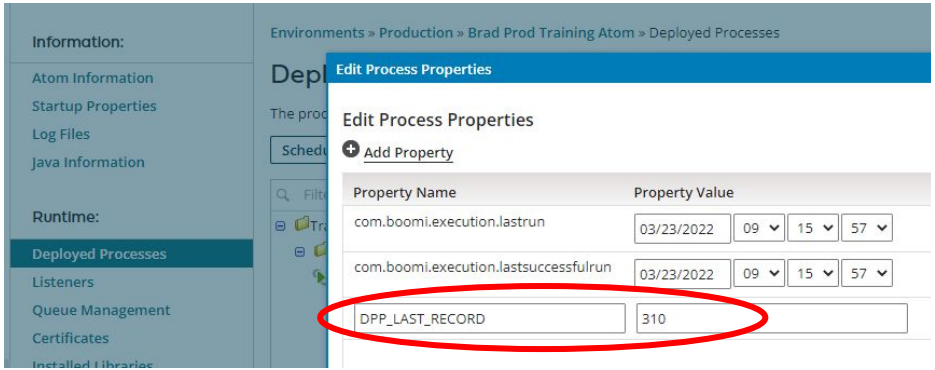
Use DPP_LAST_RECORD = **299** in Query

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:



(Initialized by executing a deployed process)

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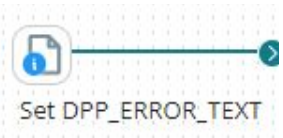
Using Properties

Dynamic Property Naming Tips

DDP_ORDER_ID



DPP_ERROR_TEXT

Name describes contents ✅

ALL_CAPS_WITH_UNDERSCORE ✅

“DDP” or “DPP” (or one of your own) ✅

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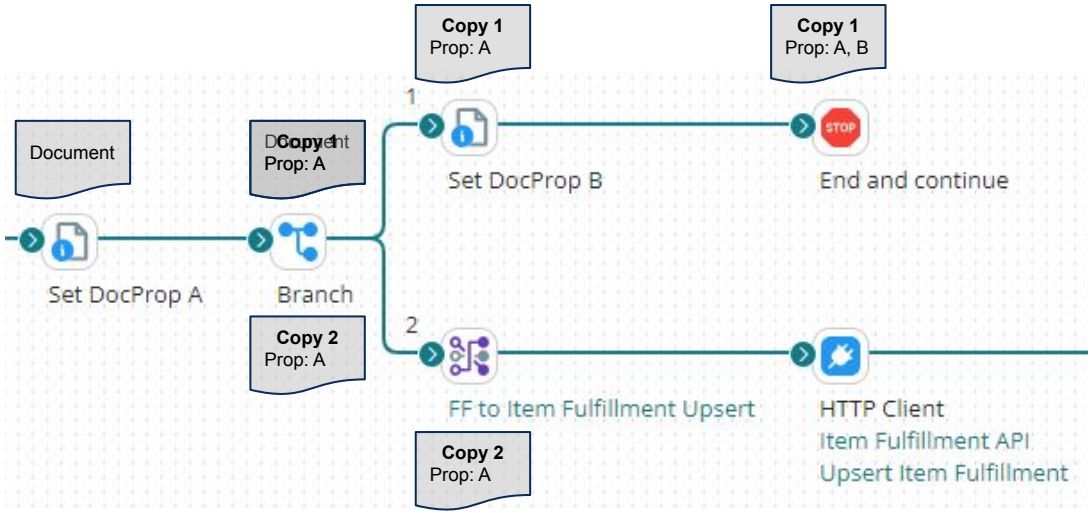
Document Properties and Branches

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



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

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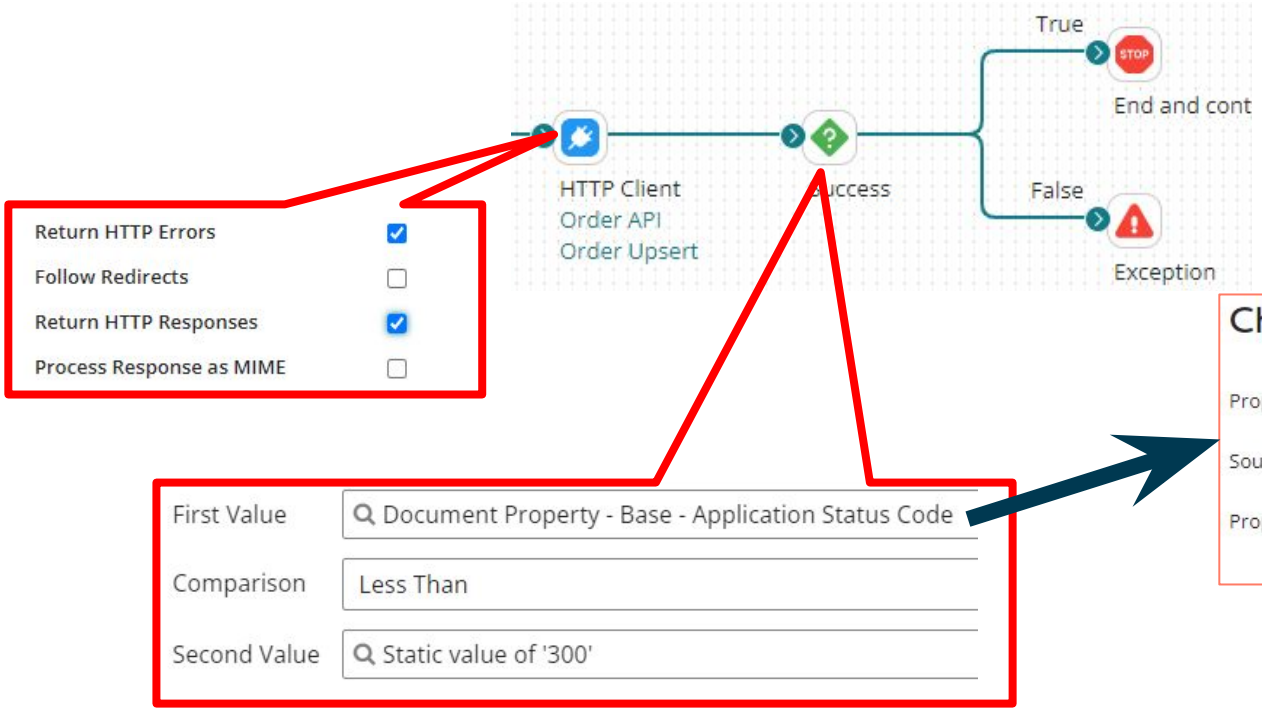
Doc Prop: Application Status Code



Was my REST API call successful?

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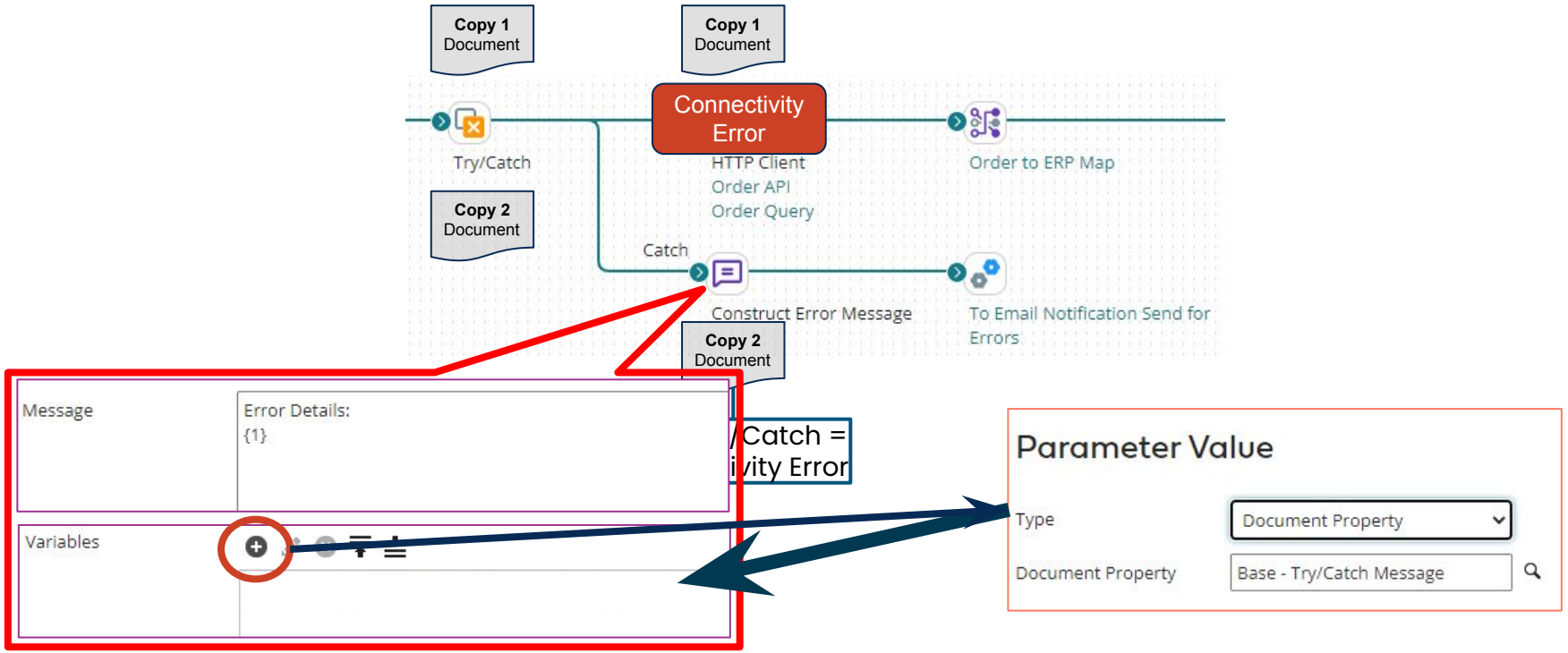
Doc Prop: Base Try/Catch



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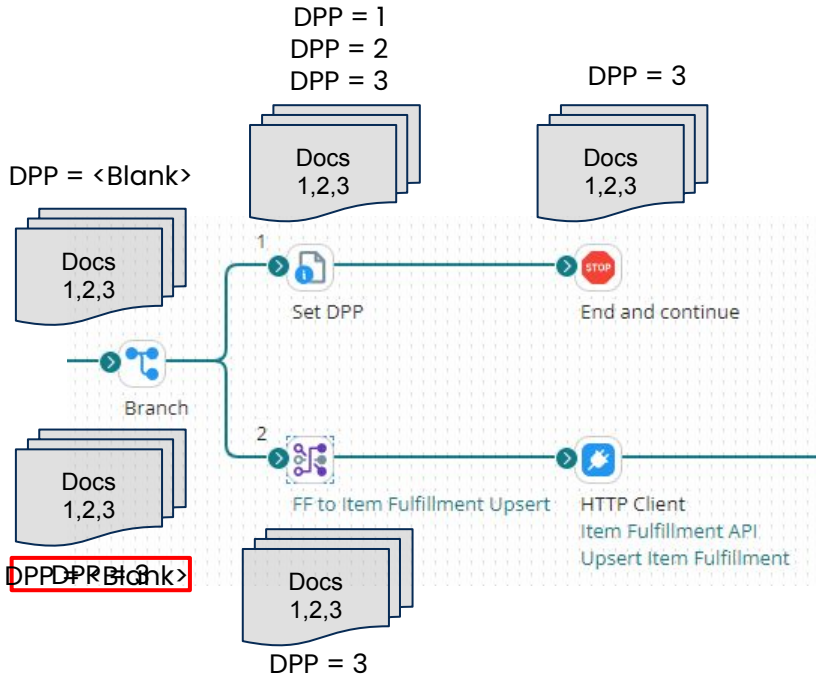
Dynamic Process Properties and Branches

DANGER:
DPP Overwritten by Batches of Docs



How to traverse branches?

CACHE!

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

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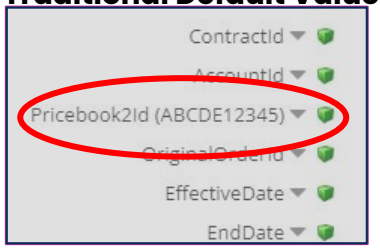
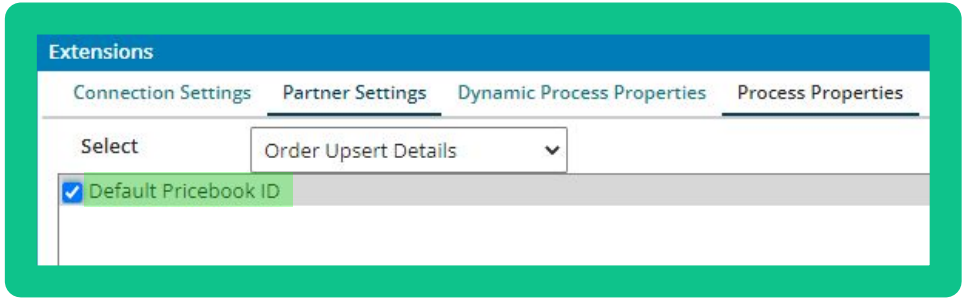
Process Property: Map Default

Map Destination Profile

Traditional Default Value

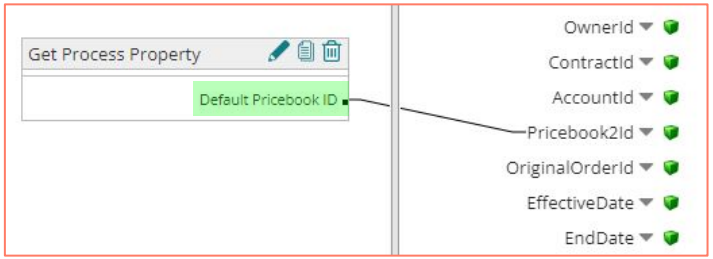




OR...

Create a Process Property

GET with Map Function



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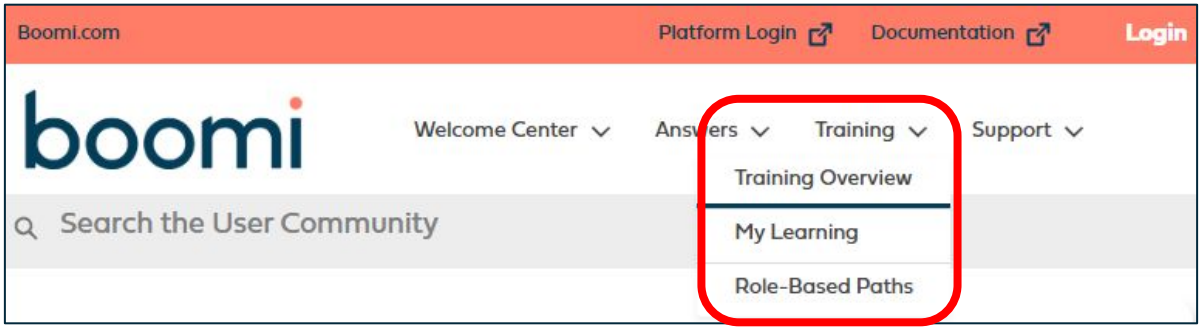
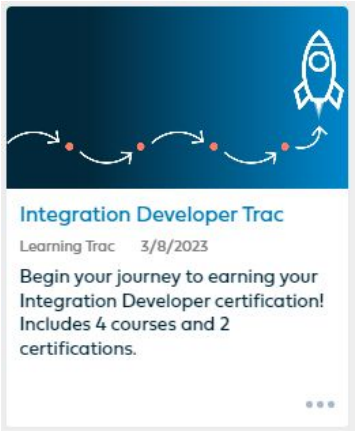
Additional Resources

Training and Certification



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



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Role-Based Paths

Project Manager

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

- Project initiation and management
- Team member coordination and communication

Learn More

Architect

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

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

Learn More

Developer

This path guides those users who will be responsible for building integrations on the Boomi 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

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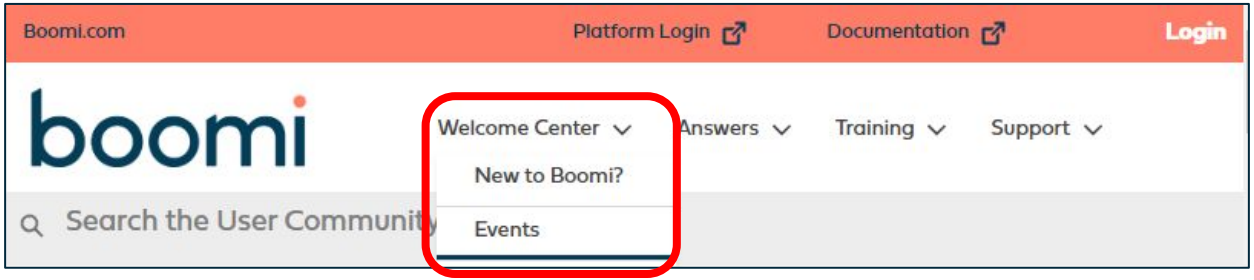
Events



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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LEARN MORE

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- **Dedicated Boomi Experts:**
  - Boomi Professional Services
  - Jumpstart, Technical Architecture, or Platform Consulting

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Questions?

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