

Ask the Expert: Integration Development + Flow

Regan Knepp, Community Events & User Groups Lead, Boomi



Join us at Boomi World 2025 as we showcase the UNLIMITED power of AI-driven integration and automation

From groundbreaking announcements and inspiring keynotes to hands-on sessions and vibrant networking, don't miss out on Boomi World 2025. Lock in Early Bird savings by registering today!

Boomi World 2025

Dallas, Texas
May 12–15, 2025

Secure your spot at boomiworld.com

WHY ATTEND BOOMI WORLD?

Stay Ahead of the Curve

Hear directly from Boomi executives and technologists on our vision for AI-empowered business.

Get Trained and Certified

Sign up for pre-conference training and get certified on key Boomi technologies, equipping you with the skills needed to navigate today's fast-changing technology landscape.

Build New Partnerships

The Partner Summit is a must-attend event for Boomi partners. And be sure to check our sponsorship opportunities.

Sharpen Your Expertise

With breakout sessions tailored for developers, integration architects, business users, and executives, Boomi World offers valuable content for everyone. Check the online agenda often for the latest updates.

Accelerate Inspiration

Get inspired by innovative companies across industries that are accelerating business outcomes, taming complexity, and transforming their organizations using the Boomi platform.



Upcoming Events

Higher Education User Group Meetup

Date: April 9, 2025

Time: 11:00am PDT | 2:00pm EDT

Join us as we meet for our monthly virtual Higher Education User Group!

Cloud API Management Overview and Demo

Date: April 16, 2025

Time: 10:00am PDT | 1:00pm EDT

Join us for a three part API Management Series covering the Boomi Platform APIM, Cloud API, and API Control Plane!

Error Handling: Strategies for Any Scale

Date: April 24, 2025

Time: 8:30am PDT | 11:30am EDT

Explore robust techniques focused on capture, notification, and retry. Gain insights through practical examples and advanced methodologies.

<https://usergroups.boomi.com/>



Ruairi Fullam – Technical Success EMEA

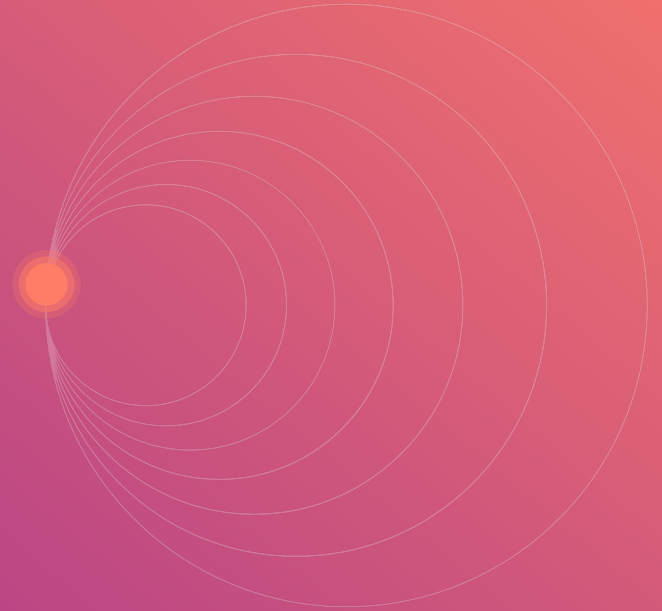
Integration and Flow Consultant, Boomi

- Started in Boomi PSO EMEA in October 2020.
- PSO Engineer specializing in Flow and Integrate.
- Delivered over 20 Integration Jumpstarts.
- Background in System Administration and Web Development.
- Hobbies include event organization, electronics restoration/repair and music production.

Questions



Question:
What features are new in Boomi?



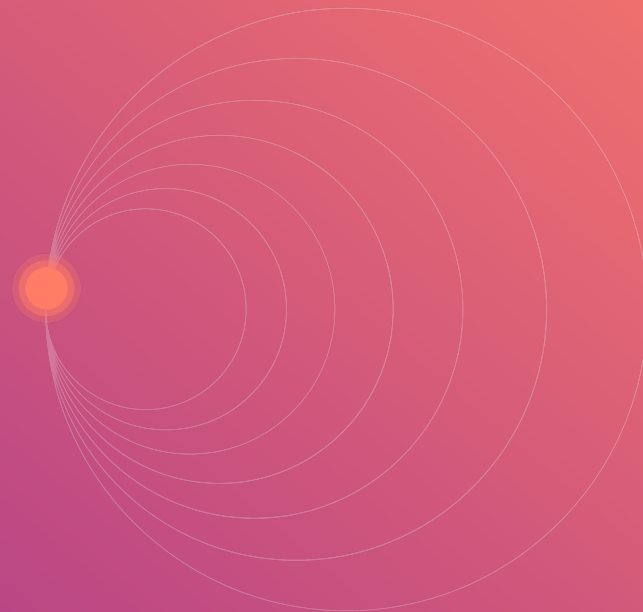


What's New?

- **API Management, Boomi AI, Connectivity, Event Streams, Flow, Task Automation and Integration** have all received significant updates in March
- **Find out more on our Boomi Platform Release page:**
<https://boomi.com/blog/everything-you-want-to-know-about-the-march-2025-boomi-integration-and-automation-platform-release/>
- **Register for our Product Roadmap CY25 Q2 Webinar here – this takes place tomorrow:**
<https://boomi.com/product-updates/>

Question:

What areas of a business have you seen
Flow and Integration offer most value
together? Marketing? Operations? Finance?





Use cases for Flow and Integrate

Flow can be used in many business use cases and is supercharged by Integrate support.

Examples can be self-service portals (e.g. for ordering IT equipment), generating interactive reports for financial data, logging timesheets, complex forms and request management.

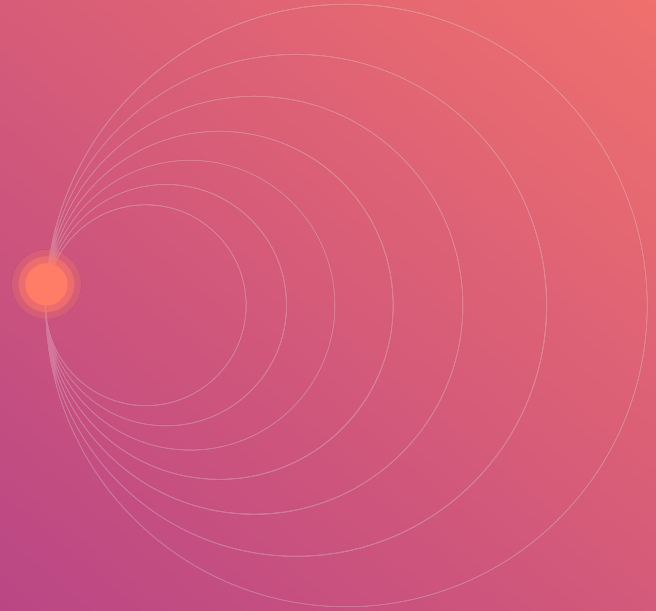
You can also use it as a way to parameterise the running of Integrations and presenting results back to the end user.

Flow is also extensible via React based custom components so if there is a capability gap you can create components to fit your business use case, and benefit from both low-code and a vendor supported platform.

Question:

What's the better way to integrate Boomi with API design tools like OpenAPI?

What's the best practices to work like-a-gitflow with branches, and create releases with an Azure DevOps integration?



OpenAPI and Branch / Merge with Azure DevOps

For working with OpenAPI endpoints, you can use our native connector which can parse the JSON or YAML from an OpenAPI 3.0 endpoint.

You can then easily configure an operation to work with that endpoint, and the Profile definition can be imported at that time.

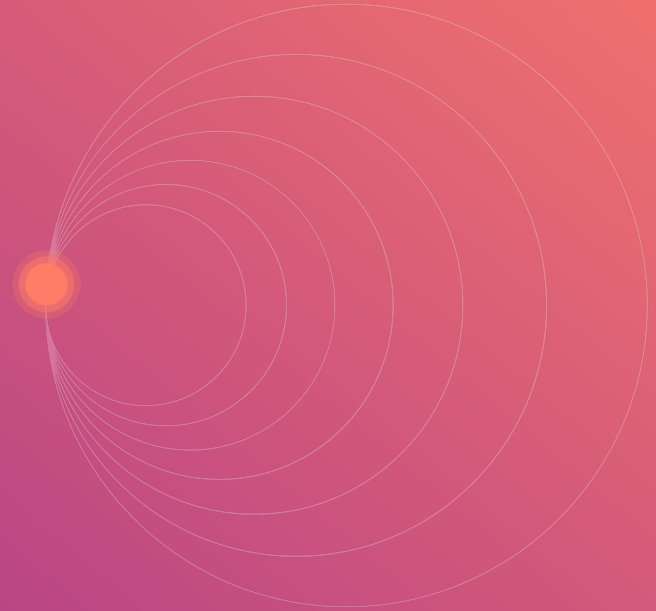
API Management can enable the creation of OpenAPI JSON or YAML:

<https://help.boomi.com/docs/atomsphere/api%20management/topics/c-atm-swagger-specification-for-an-api-component/flfe8f64-aca0-441f-bc23-0794aab05d76>

Integration **Branch & Merge** is a new feature which varies from a typical Git style workflow, however it is API addressable so you may be able to fit this into your Azure DevOps workflow. Please feel free to request for a demonstration of this feature, and we can also follow up with more detail how to handle Azure DevOps.

Question:

How can I schedule a Boomi process to run with runtime parameter values?





Scheduling with parameters

There are a number of approaches to scheduling with parameters.

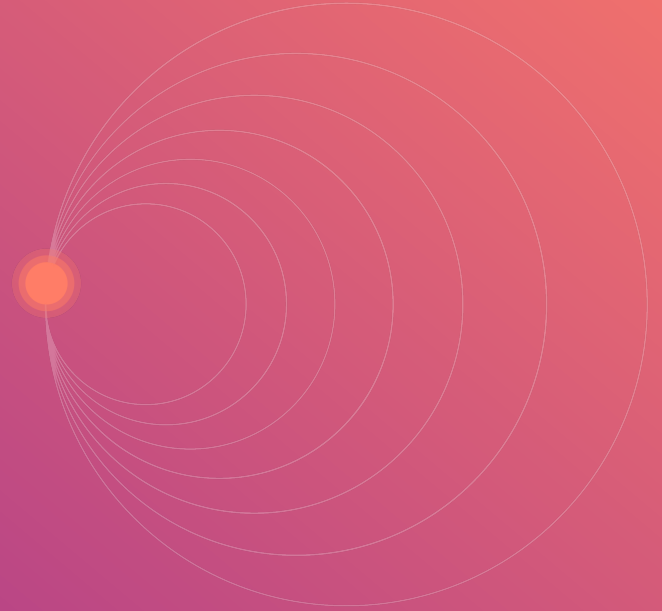
If you are using the Boomi Scheduler, you could include logic that obtains parameters from a cross-reference lookup table (this can also be configured as an **Environment Extension** for flexibility) based upon your criteria (it could be day of week etc).

Alternatively, if you need to run the schedule externally, you could use the **Boomi Platform API** (formerly AtomSphere API) to pass in arguments as **Process Property** and handle them in a way you see fit, perhaps by a **Route** shape:

https://developer.boomi.com/docs/APIs/PlatformAPI/MissingInOpenAPI/Execute_process_operation

Question:

In general for Boomi Integrations, what are some performance tips can you share?



Boomi Optimisation Tips

Optimisation is a broad subject but we do have some useful documentation you can refer to:

- **Process Performance Guidelines**

<https://community.boomi.com/s/article/processperformanceistakingtoolonghowdoimakeitrunfaster>

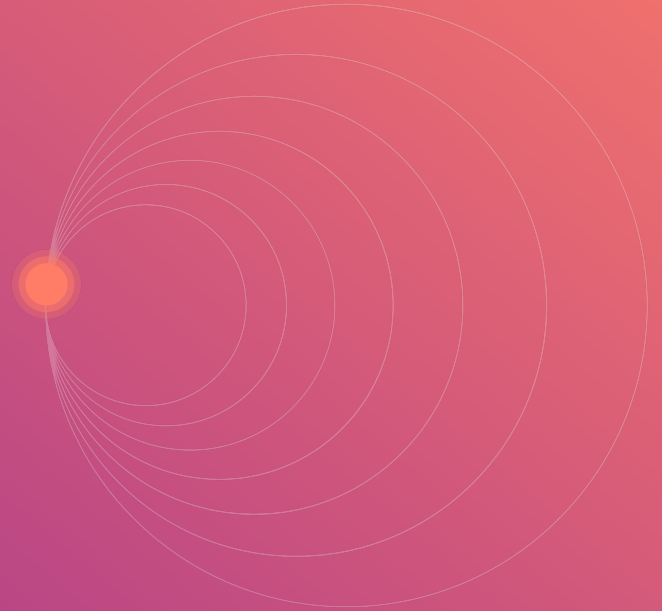
- **Boomi Capacity Planning and Performance Tuning Guide: Overview**

<https://community.boomi.com/s/article/Boomi-Capacity-Planning-and-Performance-Tuning-Guide-Overview>

Typically we recommend considering **Low Latency** Mode, reducing use of **Flow Control** to process one document at a time, reducing unnecessary lookups via **Connector Call** and using **Parallel Processing** if it is available for your edition.

Question:

What is the best way to manage Flows?



Best way to Manage Flows

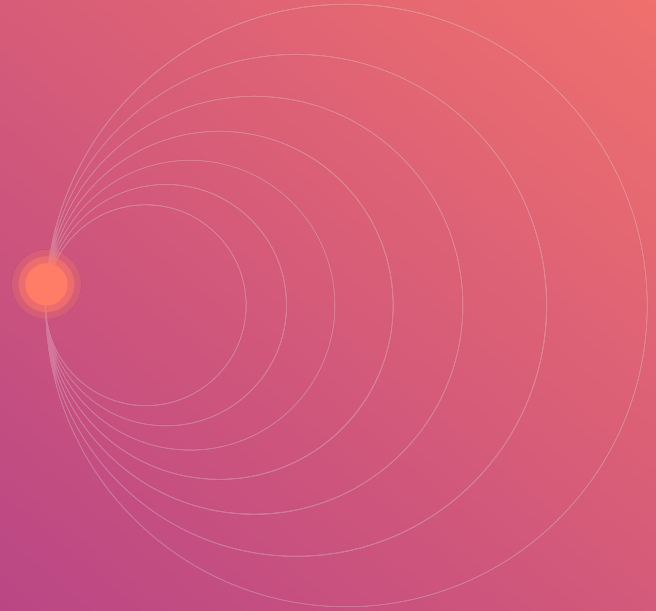
For Boomi Flow, some useful tips are:

- Define a naming convention for **Types**, **Values**, etc in advance and stay consistent
- Create a **Main** Flow that uses Subflows for various functions in your application
- If you are not using **Environments** already, leverage this feature to conveniently keep your **Development**, **Test** and **Production** releases separate
- Follow the design pattern of having application **progression** along the horizontal axis and **complexity** on the vertical axis
- Refer to our **Flow Canvas Best Practice** document here:
https://help.boomi.com/docs/Atomsphere/Flow/topics/c-flo-Canvas_Layout_58a35d34-73e5-46f9-bcf1-1489e4f8815a

Question:

Using the new Data Grid component requires us to upgrade our player where we have lot of customizations.

How to deploy Flow using the Boomi CI/CD framework?



How to deploy Flow using Boomi CI/CD process ?

Boomi Flow does not support as yet the Boomi CI/CD Reference Implementation – this is based around our Integrate product. You can also use the Flow API to implement your own CI/CD approach.

You can use **Environments** to manage and progress your flow releases through the stages of a standard development life cycle, giving you precise control over how and when you deliver flows to your users.

You can find more information about **Flow Environments** here:

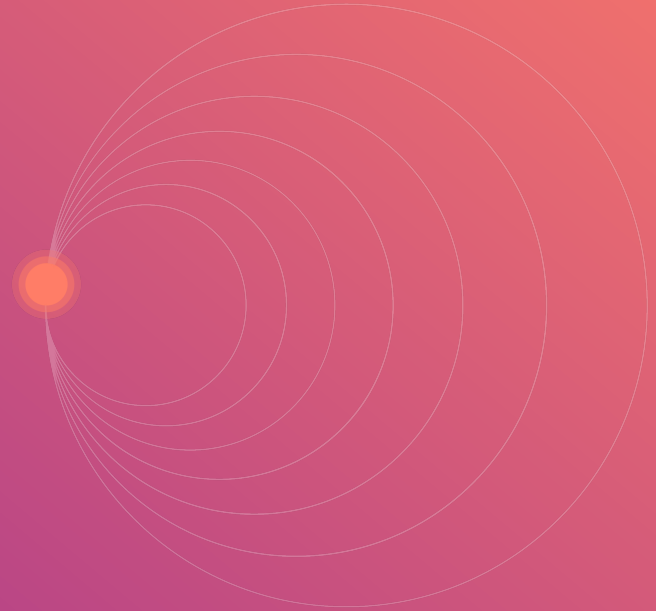
https://help.boomi.com/docs/atomsphere/flow/topics/flo-environments_f79be140-1c1c-46a5-a45f-21fba514cf5e/

Question:

What approaches are there for logging as a process executes?

How can I create notifications when a step fails?

How can I create logs or notifications if part of a process is offline?





Error Handling Approaches

Error Handling is a broad subject in Boomi.

We recommend reviewing the documentation available here:

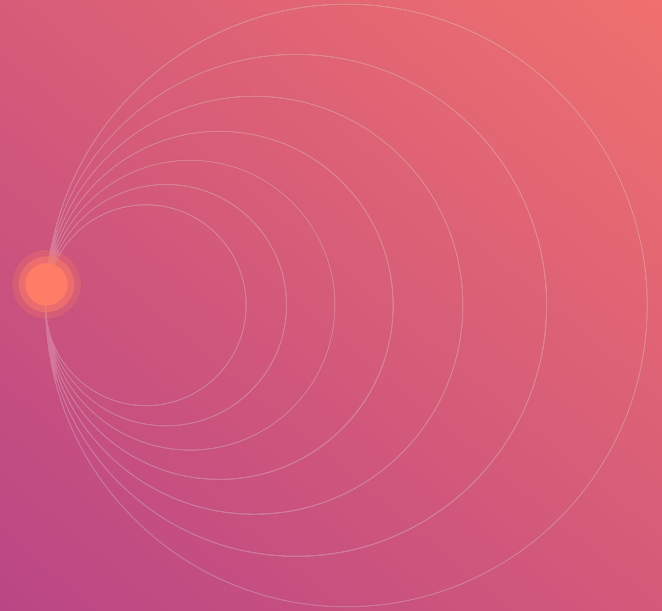
<https://community.boomi.com/s/developer-techniques/error-handling?tabset-1b212=2>

In brief you can start with using the **Try/Catch** shape, and combining this with a **Notify** shape to send notifications to Email Alert and RSS subscribers. You can reference error data by using the **Try/Catch** Message **Document Property**.

For more granular approaches or multiple failures, you can have your **Catch** path add failed documents and metadata to a *Failed Document* cache, which is processed on the completion of your process execution.

Question:

SAP transaction management from
Boomi using Service Layer





SAP Transaction Management

SAP is very broad in scope, so please feel free to submit a more specific question if this is required.

The best approach is often dependant on the version of SAP you are using and how it is implemented.

If you have submitted this question, please contact me directly if you need any specific guidance – ruairi.fullam@boomi.com

You can refer to our documentation here:

<https://community.boomi.com/s/article/sapintegrationguide#SelectinganApproach>

Questions



THANK YOU!!

boomi