SYMPHONY

Developer Newsletter

In this month's newsletter:

[Developer Community](#)

- Build-a-Bot: Building Resilient Bots & Datafeed 2.0
- New Developer Center (scroll to the end of the Newsletter to have a sneak peek!)

[Product](#)

- Python GA release
- Datafeed 2.0

[Training and Documentation](#)

- Fundamental course updated

[Partner News](#)

- BDK is part of the Finos

Developer Community Updates

Build-a-Bot Session: Building Resilient Bots & Datafeed 2.0

Don't miss our August Build-a-Bot session! During this live session Symphony Developer Relations Technical Leads, Vinay Mistry and Yong Sheng Tan, will guide you through how to build resilience into your bot applications as well as run multiple instances of the same bot using Datafeed 2.0. They will also showcase Agent Server Load Balancing using BDK 2.0, demonstrate how to run multiple instances of the same bot using Datafeed 2.0 and answer all your questions. The recording will be shared with all registrants on Aug 6. If you cannot attend the live session, do register still so we can send you the recording.

Register here: https://goto.symphony.com/BAB-Datafeed-4Aug2021-Reg.html

July 2021

Developer Newsletter

Product Updates

Python GA release

The **BDK 2.0 for Python** is now available after months of intensive testing and feedback from the developer community. If you are already using the existing Symphony Python SDK or are a Python developer getting started with Symphony, now is the time to check out the new BDK 2.0 for Python. This release promotes Python as a first-class citizen beside Java in Symphony's BDK 2.0 suite and promises the same rich feature set - simplified configuration and the new Activities API. If you missed our recent Build-a-Bot session where we demonstrated how to get started with the BDK 2.0 for Python, you can **watch the recording here**.

As a sneak peek, here's an example of how easy it is to build a slash command with the BDK 2.0 for Python.

```python
@activities.slash("/hello")
async def hello(context: CommandContext):
    name = context.initiator.user.display_name
    response = f"Hello there, {name}!"
    await bdk.messages().send_message(context.stream_id, response)
```

Do check out this new tooling yourself by creating a new project using the **Symphony Bot Generator** and selecting **Python** as your language. We are currently working on enriching the documentation and will soon launch a new certification course exclusively for the Python BDK, so stay tuned!

Datafeed 2.0

The Symphony Datafeed provides a stream of real-time messages and events for all conversations that a bot is a member of. Any event that occurs within a bot's scope will be captured and delivered to the bot by the datafeed. The datafeed forms the basis of all interactive and conversational bot workflows as it allows bots to directly respond to Symphony messages

and events. With Datafeed 2.0, we migrated the real-time event delivery infrastructure to a long polling protocol for users to retrieve events. This switch alleviates the responsibility of Symphony's backend to maintain connectivity, while also improving the stability of the service overall by moving to highly resilient and modular infrastructure.

This improvement not only ensures that maintaining connectivity is easier from both a client and server perspective, but also running multiple instances of bots is now possible. The Datafeed 2.0 service is more reliable and message delivery has a new acknowledgement (ACK) mechanism which ensures guaranteed delivery. Look out for our upcoming webinar which covers this in more detail.

Training and Documentation Updates

Fundamental course updated

Symphony Developer Relations team is in the process of revamping our Developer Certification program. The Developer Fundamentals course (Module 1) has been restructured and updated in order to provide a new level of certification - upon completion of the new course, attendees will be awarded a Certified Associate Developer badge and certification.

The changes to the course were based on feedback from our developer community, with some changes made to chapter order as well as additional content to provide a deeper understanding of bots and their use cases. The new course is also designed to be more engaging - with a live presenter and additional concept animations.

This revamp of the Development Fundamentals is the first step of building a more customizable learning experience for Symphony Bot Developers. The newly revamped Fundamentals course will be the basis of several specialized learning paths. Each path will have its own certification badge upon completion.

In early 2021, Symphony released the "Developing Bots Using BDK 2.0 for Java" course on learn.symphony.com as a specialized replacement for the "Developing Bots & Apps" course. Developer Relations is actively working on a "Developing Bots Using BDK 2.0 for Python" course for Python

developers with the release of the new tool. Symphony will release a new specialized path for each additional language offering, as well as other developer specializations (e.g. Security).

We hope that this new curriculum will allow developers to choose the learning path that will best support their Symphony bot & app development!

Partner News

BDK is part of Finos

Symphony Bot Developer Kit (BDK) is now part of the [Finos/Linux foundation](). It allows developers to send contributions that will be reviewed by a dedicated engineering team. Some of the Finos members already committed to sending contributions as well as reporting issues.

The BDK today is in a stable release and makes bots robust and secure. It is the best technology stack available to implement workflow automations on Symphony and a real de-facto standard. [Get in touch]() with us and share with your peers, this tool is also yours!

Symphony Developer Days

If you or your company would like to participate in future Developer Days to help fast track your developer team's expertise on Symphony, please [REGISTER YOUR INTEREST HERE]().
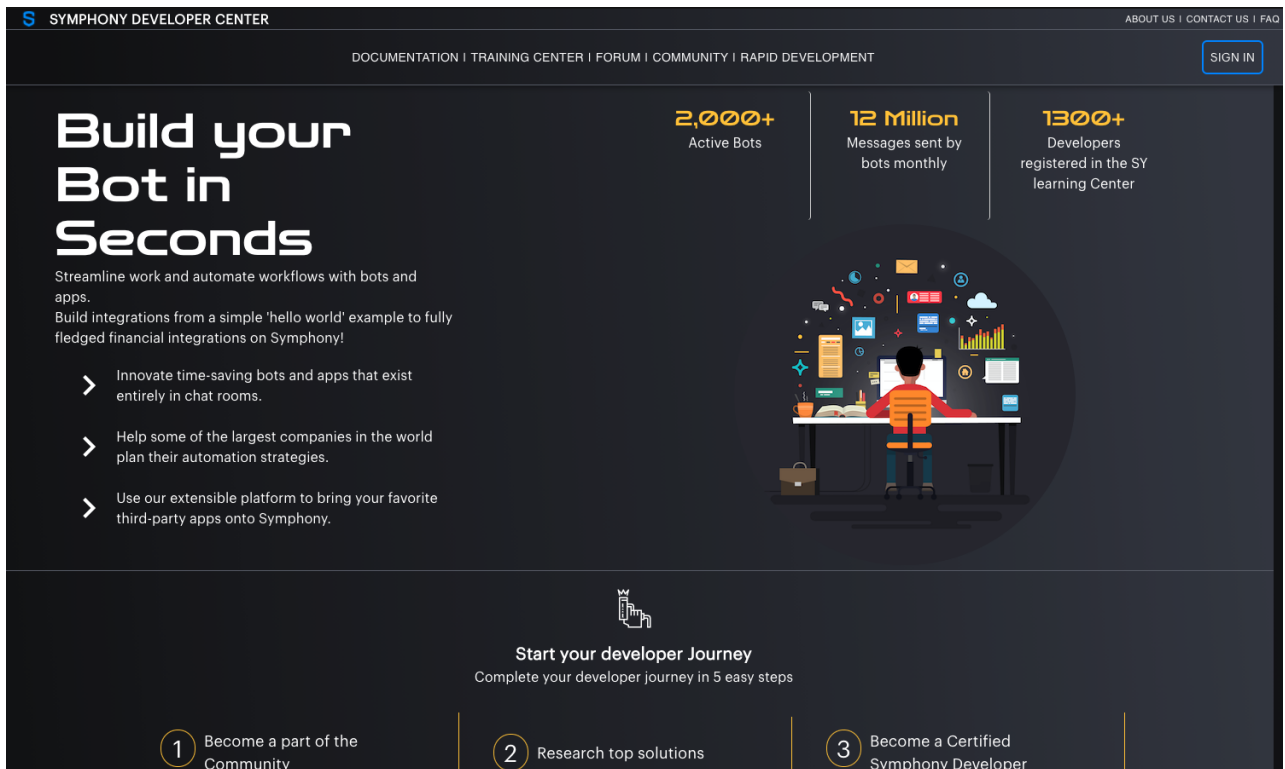
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July 2021

SYMPHONY

Developer Newsletter

Symphony Developer Center

We're launching our new Developer Center soon. Updated training, new documentation, developerforum, community page with the upcoming event just for developers and much more! Stay tuned.

July 2021