

In this month's newsletter:

- The new 2.0 Developer Bot Kit
- Activities API and Amazon Lex integration
- Improved Symphony Elements
- Innovate New York: Developer session recap
- Symphony Innovate Hackathons 2020
- Symphony Developer Certification Program

Introducing our 2.0 Bot Developer Kit

Get started building bots using our new Bot Developer Kit 2.0! With an ultra simplified configuration and authentication setup, intuitive massage and room management, message template and new activities APIs, developing bots on Symphony has never been easier. BDK 2.0 is available for Java (other languages will follow). Learn how BDK 2.0 can help power your Symphony Bots, integration and workflow automation

The BDK 2.0 can be summarized with a very simple mathematical equation:

BDK 2.0 = (API Client SDK 1.0 + Bot SDK 1.0)^2

- Simplified configuration & authentication
- Multiple bots support
- Intelligent binding of the Symphony API
- Extended services
- Framework integration



- Intuitive code assistance
- Fully supported & documented
- Dedicated training courses & certification

You will get a chance to test our latest BDK version during our London and New York Hackathons.

The Symphony Developer team will be on hand to provide support and answer questions.

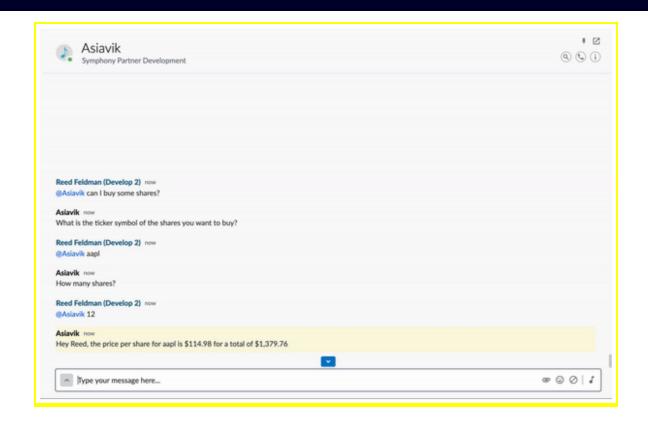
Activities API and Amazon Lex integration

By leveraging the Activities API developers can easily create workflows and automations. In addition to providing intuitive control over bot-to-user interactions, the Activities API makes it easy to integrate with third party systems. Having complete control over bot-to-user interactions is especially helpful when needing to manage conversation state or introduce NLP (Natural Language Processing) into your workflow.

With new frameworks and integrations such as <u>Amazon Lex</u>, introducing NLP into your bot's workflow is easier than ever. Simply train your models in Amazon Lex's intuitive dashboard, extract the relevant data from your bot-to-user interaction, perform the intended business logic with this given data, and reply to the user all while maintaining conversation state.

The following video is an example of a Symphony chatbot leverages the Activities API, Amazon Lex's NLP service, as well as the vahoo finance API in order to fetch stock prices in real time:





Improved Symphony Elements

Bring the Symphony "look and feel" to a bot conversation with improved Symphony Elements:

We have added input validation to Elements:

- Front-end DLP scanning will be performed before executing the Regex
- Front-end validation is performed upon submission

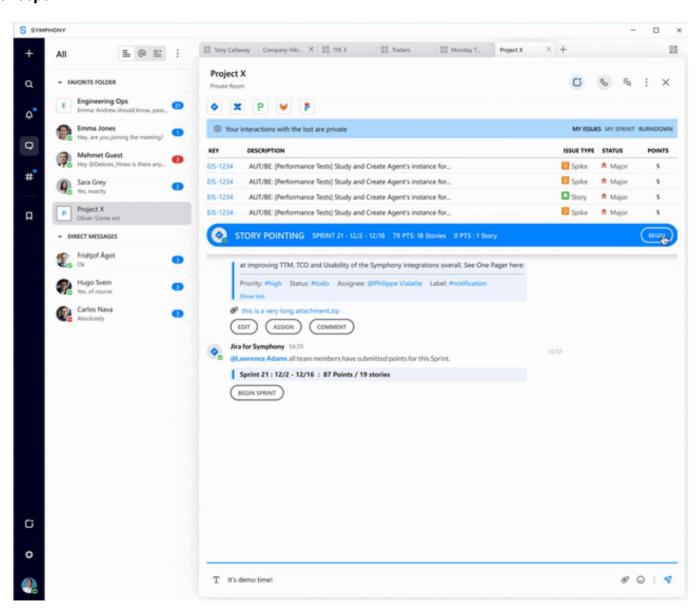
We will be adding support for:

- DLP scanning on Symphony Elements form replies
- Providing warnings on a violation so users can ignore & submit



Or completely Blocking a form entry before submission

We are currently working on adding state to Elements through our versatile "stateful messages" concept.





Innovate New York: Developer session recap

Last week, we gathered virtually for second Symphony digital Innovate. Almost 1000 attendees from all over the world tuned in to see presentations from Symphony team members, demos of new products and integrations, and discussions featuring leaders from across the financial services industry. You find all the event highlights here.

Technology and Developer Forum

Olivier Poupeney, Developer Relations Manager, and Mario Orphanou, Product Management Director for Symphony's Enterprise Integrations, presented the **Build a Bot in seconds:**Introducing the Bot Developer Kit 2.0 session. During this session, they guided the audience through the latest developer tools and show you how to develop bots in seconds. They presented Bot Developer Kit 2.0, provided an overview of new functionalities and showed it in action.

Symphony Innovate Hackathons 2020

Symphony is hosting its first virtual hackathons for the APAC, EMEA and AMERICAS regions in September/October 2020. These Hack@Home events allow developers across each region to participate remotely and safely, with the common goal of driving innovation in problem-solving.

If you are based in EMEA or AMERICAS, there is still time to register. Do not miss your chance to connect with like-minded developers and turn one day of hacking into the start of a game-changing solution. Join in and solve real-world problems with technical elegance, save time from tedious processes, or make remote working surpass the physical workspace experience.



Register today or drop us a note if you need ideas.

APAC Hackathon results

This year's series kicked off in the APAC region on 16th September and for the first time, had developers from 4 different countries compete in the same event. The solutions touched on use-cases such as customer onboarding, order processing, market data distribution, natural language processing and several third-party integrations. Three teams emerged at the end of the day, winning in the respective categories below. They will all progress onto the global Symphony Hackathon Olympics in 2021, facing off with contenders from the other regions.

• Most Cutting-Edge Technical Development

Team Alligator from NatWest Markets built an automated workflow to replace large-scale coordination activities like power shutdowns or disaster recovery tests. The solution handles task assignments, tracking, reminders and collation in a conversational flow structured using Symphony Elements.

• Most Impactful Business Automation

Team Valuefy demonstrated a wealth management use-case, building an order management flow that brings traders, relationship managers and their clients and into one seamless process for price discovery and execution. The solution pairs with Symphony's WeChat/WhatsApp Connect offering to reach clients within Symphony.

Work From Home Workflow

Team Citi built a price shock detection system to automatically extract and analyse price-sensitive news from social media, delivering insights to commodities traders before



being published by mainstream news sources. This reduces the latency of taking action on positions even while trading floors operate remotely.

Symphony Developer Certification Program

Become a certified Symphony Developer! We're here to partner with you. From simple integrations to complete financial workflows, the Symphony team is here to support Developers building with our technology.

Register to complete the course or contact us if you need assistance.

As a thank you for completing the Developer Certification Program, we'll send you a **Symphony t-shirt** (by request) and a digital **Developer Certification badge** that you can add to your LinkedIn profile and share with your network.

Share with a Colleague

Know a colleague that will find the developer newsletter useful? Help them subscribe to the newsletter now.

The Developer Documentation found on developers.symphony.com and the instructions provided in this Symphony Developer Newsletter (collectively, the "Symphony Materials") are each provided "as is" without warranty of any kind (including without limitation, any warranty of merchantability or fitness for a particular purpose or non-infringement), and as such shall not be considered a "Symphony Service," as such term is used and defined in the services agreement between your firm and Symphony Communication Services, LLC ("Symphony"). This means, among other things, that (I) Symphony makes no representations or warranties, express or implied, with respect to any matter relating to the Symphony Materials; (II) Symphony is under no obligation to provide support or maintenance for the Symphony Materials; and (III) Symphony disclaims all liability for or with respect to your or your firm's access to or use of the Symphony Materials, and under no circumstances and under no legal theory, whether in tort, contract, or otherwise, will Symphony be liable to you or your firm (i) for any indirect, special, incidental, or consequential damages, (ii) for punitive damages, (iii) for damages for lost profits, lost sales, or business interruption of any character, in each case even if you have been advised, knew or should have known of the possibility of such damages. The Symphony Materials are subject to change without notice and are for information and illustrative purposes only. None of the Symphony Materials is, and should not be regarded as "investment advice" or as a "recommendation" regarding a course of action, including without limitation as those terms are used in any applicable law or regulation. The Symphony Materials are provided with the understanding that with respect to the Symphony Materials you will make your own independent decision with respect to any course of action in connection herewith, as to whether such course of action is appropriate or proper based on your own judgment and your specific circumstances an