

Subject: One Data Newsletter - 2022 Mid-Year Edition
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One Data Newsletter

Mid-Year Edition | 2022

One Data | A unified cloud computing service for driving reuse by exposing data in a standardized way across the enterprise

Performance Stats

1.2+ Billion
Avg Daily Requests

4,566
Total Functions

14,500
Requests per Second

969
Developers who made Commits
YTD

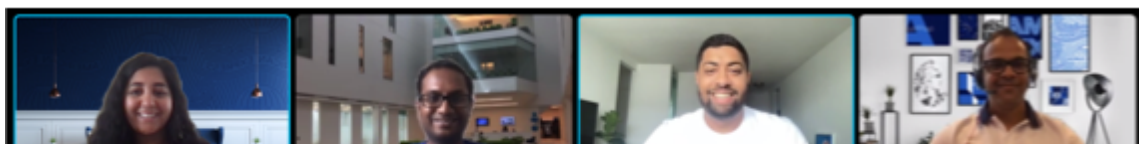
9,384
Function Releases
YTD

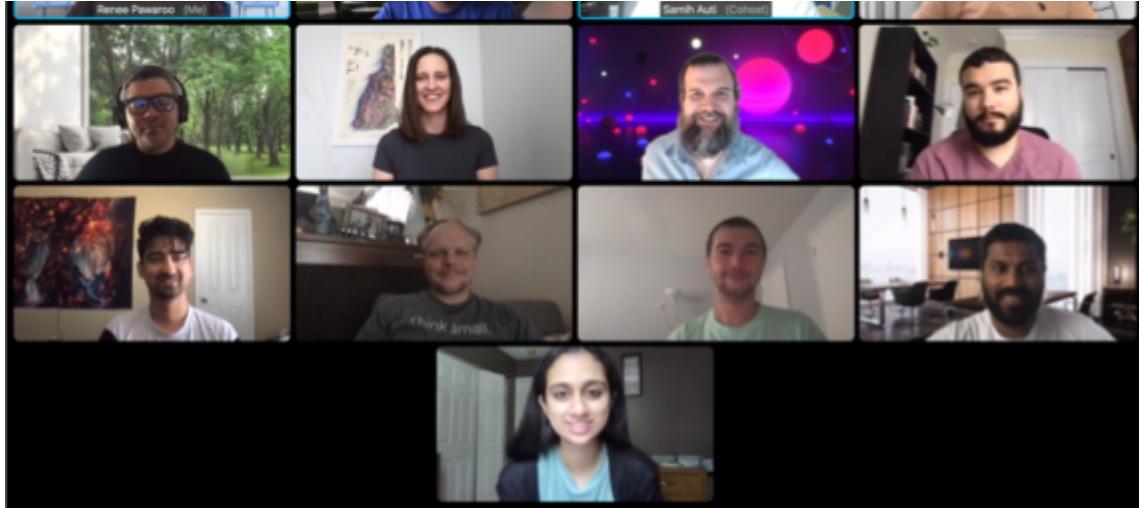
32,206
Commits
YTD

We are excited to publish a mid-year edition of the OneData newsletter for 2022!

One Data is modernizing and driving reuse of back-end services across American Express by providing a unified Enterprise [Functions as a Service \(FaaS\)](#) for developing and exposing APIs in a standardized manner. Our cloud computing service and rich set of capabilities and developer tools allows Engineers to just focus on building class services!

Our Mid-Year newsletter is designed to keep teams up to date on our recent accomplishments and upcoming features. Want to contribute or learn more? Reach out to [#One-Data_ProductSupport](#).





Accomplishments



Security First

- **Dynamic Application Security Scanning (DAST)**
Integrated with Aquila, a self-service Dynamic Application Security Scanning (DAST) to detect vulnerabilities, risky behaviors, and insecure connections during runtime
- **HDIV Runtime Application Self-Protection (RASP)**
Live in E1/E2!
Enabled HDIV RASP in Monitoring mode to identify vulnerabilities and flag malicious attacks and business logic abuse



Reusable Capabilities/Tools

- **One Data B2B NextGen OAuth**
Pilot Underway
Exposes backend services to third party partner seamless integration with American Express's E Gateway and Next Gen OAuth



Operational Excellence

- **India Data Localization (IDL)**
Rollout support of India Data Localization with Intelligent Router to meet regulatory requirements
- **HiPED 5.6 Upgrade in MVS**
Used to secure card member's Personal Identifiable Information (PII) or other sensitive data
 - HiPED NG with Key Management System (KMS)



Frictionless Developer Experience

- **One Data Runner**
Runs on docker to run functions locally simplify debugging capabilities for One Data functions
- **Improved Onboarding**
Improved onboarding and self-service capabilities enhanced user documentation, extended Slack on #one-data_dev, and One Data Slackbot auto

v4

- o HiPED FPE (i.e., Format Preserving Encryption)

- **Log4j**

Addressed Zero Day vulnerability

- **Java SDK 3.2.X Version Upgrade**

Introduced 'Resource Overriding' which allows the functions to override certain libraries provided by the platform

- **One Amex University**

Refreshed One Amex University courses familiarizing teams onboarding to One Data faster

- **CTP Sessions**

Conducted technical knowledge sharing session

- o [IDL on One Data](#)
- o [Observability Series – Using Splunk for](#)

Upcoming



Security First

- **Early Bird Secrets Scans** – Enabling Early Bird for secret scanning as part of One Data's build pipeline
- **Rate-Limiting Self-Serve Support** – Enabling self-service support using Envoy to limit authentication attempts to prevent Denial-of-Service (DoS) attack
- **Vault Migration** – Improving secret management by migrating to the Enterprises mandatory Vault storage solution
- **Function Classification** – Identifying the interface classification (Internet/Intranet/B2B) of a function
- **API Security Testing (BDD)** – Integrating with Automated Security Testing and providing continuous verification security controls as part of the build process



Reusable Capabilities & Tools

- **B2B Model for One Data**
 - o Easily expose backend services to third party partners with a seamless integration with American Express Enterprise Web Portal B2B Gateway and Next Gen OAuth
 - o Restful Interface to meet Open Banking/PSD2 requirements and other B2B use cases using the American Express Developer Portal



Operational Excellence

- **Gradle 7 Upgrade** – Runs faster when doing incremental builds and makes your build more secure by verifying the integrity of the dependencies of your build
- **Continuous Uplifts & Patches** – Ensuring the integrity, health & security of the platform
 - o Monitor [#one-amex_news](#) and the [One Data release calendar](#) for upcoming releases



Frictionless Developer Experience

- **Redesign One Data Developer Portal** – Coming Soon! One Data Developer Portal is moving! New Site Design refresh on content underway...

| 🌟 2022 Adoption

Powering Top Initiatives across AMEX

Global Commercial Services

- **Global Pay/Cross Border Payments** – Modernization of the Foreign Exchange International Payments Platform
- **Expedia vPayment Uplift** – Enabled Expedia, a vPayment client, to settle with their hotel partners for their travel and Amex TLS bookings
- **Business Checking Account** – Business Checking Account for Small Businesses simplify the day-to-day transaction and needs through our digital checking product solution

Global Consumer Services

- **Consumer Banking / Amex Rewards Checking** – American Express's first digital consumer checking account with debit
- **Delta.com Plan It** – Plan It Point-of-Sale with Delta to give CMs more payment flexibility in the Delta purchase drive increased spend and conversions for Delta, and increase Plan It awareness
- **Personal Saving Project Helix** – Migration from FIS Portal to American Express.com enabling a more seamless customer experience

Enterprise Platforms

- **Digital Banking Domain** – Drives reuse with a common set of backend-services across the Digital Banking Platform

Global Servicing Group

- **One View Uplift** – Enabled CCPs to have a 1:1 non-invasive view of any CM's MYCA accounts to increase Drive interactions and confidently handle navigational questions and complex issues

Others

- **India Data Localization** – Live 22.1 Rollout support of India Data Localization with Intelligent Router to meet regulatory requirements

| 👥 One Data Team

Team Member Spotlight!

🎉 Congratulations to [@Rajesh Meda Adinarayan](#) on being promoted to **Senior Engineer I** on the One Data Team!


🎉 Welcome [@Samih Auti](#) and [@Renee Pawaroo](#) to the One Data Product Team!

Yuliya Statut




Shada Thykandy





Hi, my name is Yuliya, and I am Senior Software Engineer on the one-data team. I enjoy my work, especially when from only one sentence in story description or zero description, I create a PR with 15+ changed files or when the task is so tricky, but interesting, that I don't want to leave my workplace. It's a kind of magic! A memorable accomplishment for the last three months is that some of my changes have already made it to the production. Besides enjoying my work, I like hiking, traveling, and watching fantasy movies, some of them for the 100th time (The Lord of the Rings and Harry Potter forever).



Hi, my name is Shada Thykandy and I am an Engineer on the One Data Platform team. Something I enjoy here at the collaborative culture -- my teammates are always to jump in and dedicate their time whenever a colleague is stuck. A memorable accomplishment for me would be designing and implementing various features for One Data including multi-select menus and input validation for form creation to be automated. Outside of work, I enjoy video reading, and singing, although certainly not professionally, I love exploring new restaurants in South Florida and shows when I get the time!

Testimonials

"From deployment, security, ops, and other helpful features - one data provides an ecosystem to quickly deliver features to our users without spending engineering cycles on common elements."

- James Smart Foster (*Deposits and Checking*)

"In GMS, we've been using One Data functions since 2018! With different areas in GMS going cloud native, this capability to deploy functions is key to the success of our efforts."

- Edward Samson (*GMNS*)

"One-data helps PC (Product Composer) to benefit in design implementing API for lending ecosystem. Dedicated and core support from high-quality engineering tools and technology have been the primary consideration for lending more and more APIs in this platform."

- Avinash Nair (*Product Composition*)

We invite you to attend our [Overview Sessions](#) & office hours every Wednesday at 11:00 AM EST / 8:00 AM MST

[Learn More](#)

[How to Onboard](#)

[Success Stories](#)

[Have a Question?](#)



DON'T *live life* **WITHOUT IT**™