May 31, 2016

The Honorable Thomas J. Curry  
Office of the Comptroller of the Currency  
400 7th St SW #3E  
Washington, D.C. 20024

Re: Supporting Responsible Innovation in the Financial Technology Sector

Dear Comptroller Curry:

We read with interest the Office of the Comptroller of the Currency’s recent white paper, *Supporting Responsible Innovation in the Financial Technology Sector: An OCC Perspective*. Thank you for sharing your views on the principles that are shaping the OCC’s framework for approaching this exciting area of economic and entrepreneurial activity.

At Plaid, we share your commitment to responsible, collaborative innovation in the evolving financial technology sector, and we appreciate your interest in hearing from a diverse array of stakeholders on the principles you have identified. We hope this is the beginning of a fruitful ongoing dialogue as you continue to develop a framework to support responsible innovation within financial services.

This response will cover who we are; why we believe inclusivity is essential to creating a responsible culture of innovation; and what principles we believe could help realize the OCC’s goals. Through these comments, we will also address the questions you posed at the end of your white paper.

For your review, we have also attached our own white paper, *Financial Services: Building a Consumer-First Framework for Modern Technologies*, which discusses important principles to help define and strengthen the relationship between traditional financial institutions and technology companies in ways that best serve and protect consumers.

Please reach out to Sima Gandhi at sima@plaid.com with any comments or questions. Thank you again for the opportunity to comment on this important issue.

Sincerely,

Sima Gandhi  
Head of Business Development & Strategy, Plaid
**Who we are**
Plaid builds the infrastructure that enables consumers, financial institutions, and developers to securely exchange financial data. The Plaid platform makes it possible for consumers to permission third-party financial technology applications that access and make use of bank data on their behalf.

We are a next-generation version of a class of businesses known to the financial industry as data aggregators. Our platform comprises a suite of APIs, or application programming interfaces. APIs essentially enable new technology—from fintech applications to platforms at banks—to communicate with other traditional financial systems. In other words, our modern bank APIs enable financial applications to work with tens of thousands of U.S.-based financial institutions.

**Our role in the financial technology ecosystem**
Our strength lies in marrying technology and innovation to bring meaningful progress to financial services. As such, we are uniquely positioned to support innovation and enrich consumer choice—and understand the dynamics impacting both.

We make it simpler for entrepreneurs and traditional financial institutions to identify new consumer needs, create innovative new products, and compete as they bring them to market in a safe and secure manner. We also make it easier for consumers to choose among the products and services that serve them best, ensuring that their lives are improved by advances in financial technology.

Fundamentally, our technology provides interoperability across the financial services ecosystem. In the United States, interoperability is fundamental to innovation. Interoperability effectively lowers the barriers for developers to bring financial services to market at scale, across whatever financial institutions their customers use. It means that, regardless of where they bank, millions of people are able to access services and products that improve their lives. This also creates a level playing field across financial institutions; we help the largest financial institutions as well as community banks provide sophisticated products and services to their customers without requiring them to make resource-intensive investments.

At the same time, we appreciate the need to strike the right balance between innovation and risk in areas so central to consumers’ lives. As your paper points out, it is important to meet the financial needs of consumers and businesses in a way that emphasizes effective risk management.

**Inclusivity must underpin any innovation effort**
As the OCC works to shape an environment that maximizes responsible innovation, fair treatment of consumers, and safe and sound risk management, it’s important to create a transparent, balanced, and organized process for sharing ideas and information. We therefore applaud the OCC’s effort to encourage dialogue among stakeholders across financial services through the creation of an Office of Innovation and establishment of forums. In both these areas, we urge the OCC to seek out and include representatives and perspectives from the tech community.
Currently, there are a variety of formal and informal ways that banks and nonbanks communicate with the OCC—and with each other. While this communication is important, as you note in your white paper, an unbalanced dynamic can lead to inconsistencies and inefficiencies.

Historically, discussions on financial services and the evolution of regulation have not included technologists or the developers that utilize these technologies. However, as our system grows increasingly intertwined, we cannot underscore enough the importance of understanding these perspectives. Their ability to affect consumer choice, experiences, and security is critical to any future development of our system.

One way to convene this mix of technology, regulatory and financial services, and developer and consumer experts would be to charter a new advisory committee. To foster debate and deliver insight, representatives of such a committee would ideally have diverse backgrounds and roles in financial services, including—but not limited to—financial institutions, community banks, leading financial technology companies, developers, and consumer advocacy groups. This advisory committee could offer a transparent and structured way to ensure a regular and representative discussion. The OCC’s own Mutual Savings Association Advisory Committee offers one relevant example of how the OCC can use its convening power to coordinate with experts across a variety of backgrounds to advance thinking on a specific topic.

As a technology company focused on the developer experience and enabling responsible innovation of financial products, we welcome opportunities to support your initiatives in this space. We would be happy to help host initiatives like the Consumer Financial Protection Bureau’s Project Catalyst—in which representatives from the Bureau visited fintech companies in Silicon Valley. We would also embrace possible opportunities to work more closely with the OCC, sharing the experiences and lessons we have built through our thriving developer community. Plaid is fortunate to be part of the latest in security and engineering developments, and we sit at the nexus of the most innovative financial products. As such, we are committed to sharing our observations so that the OCC and the Office of Innovation are aware of and can benefit from the latest in financial technology innovations.

Clarity and openness are key to responsible innovation
What’s more, regulatory or supervisory uncertainty has the potential to dampen innovation. Despite their best efforts to comply with rules and regulations, innovators may find themselves in gray areas where the pace of innovation exceeds that of established rules. This is where the OCC can set itself apart by establishing its proposed Office of Innovation. That would help ensure that all stakeholders have a clear point of contact and a way to vet ideas.

It is essential to create a safe space for new technologies, where experimentation can be done in partnership with regulators to ensure that innovation appreciates any associated risks and manages them appropriately. We find the OCC’s willingness to evaluate existing guidance on new product development and third-party risk management to be a step in the direction of institutionalizing innovation and a culture of change. Additional guidance, where needed, could provide essential clarity as innovators work to understand the regulatory requirements and the supervisory environments that face them. After all, clarity and openness are key to ensuring that any innovation that happens is responsible.

Plaid Technologies, Inc.
But the OCC’s Office of Innovation is just one way the agency can provide much-needed insight into the growing nexus of financial services and technologies. In addition to holding regular meetings with fintech innovators to maintain an ongoing understanding of new developments, as you propose in your paper, we encourage you to meet with the consumers and developers who are increasingly relying on innovations occurring within the convergence of finance and technology.

**Cooperation is key to putting consumers first**

Your white paper urges banks to innovate in order to better serve consumers, pointing out that the best approach can take different forms for different institutions. Yet many financial institutions have found that the most effective way for them to make progress requires collaboration of some kind, often through partnerships with financial technology firms. Encouraging such partnerships as a means for innovation should be a key priority for the OCC.

A stronger partnership, alongside a more clearly defined relationship, could help mitigate barriers to entry and leverage the strengths of both established financial institutions and growing technology upstarts to boost innovation, consumer choice, and economic growth.

Consider the example of security. Long-term partnerships between traditional financial institutions and technology companies could dramatically strengthen security best practices. By sharing expertise, a cooperative financial services industry could protect consumers in a way that better reflects the vital need to maximize the security of sensitive personal financial information.

Your agency’s commitment to evaluating existing guidance, at the urging of banks and nonbanks alike, presents an important step forward. In the current environment, unclear regulations that extend to third-party vendors can make such partnerships difficult, or prevent them from being established. Rules that protect consumer interests and instill the proper security safeguards are critical. However, uncertainty around how certain technologies operate—and, by extension, the products and services they power—may create dampening effects on regulated institutions that may opt for the certainty of a safe bet than venture into regulatory uncertainty.

The OCC is well positioned to support collaboration across the financial services ecosystem by reducing uncertainty and encouraging strong partnerships. We welcome any steps on the part of the OCC to help create a collaborative environment in which these shared goals can be pursued.

**Conclusion**

We are energized by the OCC’s efforts to formally encourage responsible innovation and to provide shape to this nascent financial technology industry.

We believe tremendous potential exists for designing and implementing a framework that guides the continued evolution of the financial services sector in a way that is balanced, secure, and competitive—and puts the consumer first. But a strong partnership between established financial institutions and technology firms will be critical to the success of any such effort.
To those ends, and as a result of our shared interest in responsible innovation, we welcome the groundbreaking work underway at the OCC and look forward to taking part in this important conversation.

Attached: Financial Services: Building a Consumer-First Framework for Modern Technologies
FINANCIAL SERVICES

Building a consumer-first framework for modern technologies
I. INTRODUCTION

Over the past several years, a new class of financial services applications has emerged that gives power and choice to the consumer. These applications have improved the lives of millions of Americans, allowing them to gain control of and easily manage their financial information, by delivering new services and providing modern, consumer-friendly experiences. The impact these companies have had in a short amount of time has been significant—consumers rely on many of them on a daily basis. And the investment environment, where funding to the financial technology sector tripled from $4 billion in 2013 to more than $12 billion in 2014, suggests further opportunity for progress. (See Snapshot of the financial technology sector.)

Yet none of these businesses could exist without a category of enabling technology companies called third-party data aggregators. These companies build the technological bridges that connect applications with established financial institutions, allowing consumers to access their information in the ways that work best for them. Aggregators are therefore key drivers of consumer choice and flexibility. Fundamentally, aggregators are technology- and security-centric businesses that facilitate new services while protecting consumers’ financial data. By providing the platform that enables any bank account to work with any financial application, aggregators help consumers explore and benefit from new financial services. In this way, third-party aggregators give consumers financial choices that they would not otherwise have. And because they put security first, aggregators help ensure that this freedom is backed by the best protections possible.

As with any period of dramatic innovation, progress in financial services has raised difficult questions about the best way for traditional financial institutions—which sit at the heart of this ecosystem—and newer technologies to collaboratively deliver services to the consumer. At the root of these questions is whether and how consumers should be able to access their data, and the role aggregators ought to play in providing them this functionality.

These issues will take time to properly address. In the meantime, however, market uncertainty could dampen innovation and disrupt the way many consumers access the financial applications they have come to rely on. Without cooperation among key players in the financial and technology industries, many consumers could find themselves without the agency to

SNAPSHOT OF THE FINANCIAL TECHNOLOGY SECTOR

Despite the changes that have come to the financial industry, banks remain at the core of financial services. According to the Federal Reserve, 92% of Americans maintain at least one bank account.

Indeed, most of the emerging financial technologies are not designed to compete with and cannot displace banks. Instead, they provide complementary services and functionalities that enhance customer satisfaction. By helping consumers save more money, cut expenses, and invest—savings consumers then deposit into their primary bank accounts—financial technologies contribute to a more knowledgeable and sophisticated market that benefits the system overall.

The functionalities provided by legacy financial institutions and those supplied by upstarts are both essential. But it is only by working together that consumer expectations can be met. While banks’ core competencies lie in finance, the core competencies of financial technology businesses are rooted in technology. Aggregators serve as the link between the two, making it possible for consumers to enable third-party access to their bank data in a secure way and for financial technologies to bring new functionalities to market.
own, access, and transfer their data.

As answers evolve and financial technology companies continue to fill gaps in the market, it is essential to build a secure, collaborative system that empowers consumers and enriches their choices.

This paper puts forward three recommendations to guide the development of an inclusive financial services ecosystem:

• Protect the ability to innovate and compete;
• Grant consumers control over their personal financial information; and
• Promote better security for personal financial information.

The leadership of traditional financial institutions, financial technology companies, consumers, and policymakers will shape the financial landscape. Addressing the inevitable challenges in a way that empowers consumers everywhere is an objective that should be shared by all.

II. CONSUMER CHOICE REQUIRES A RICH LANDSCAPE FOR INNOVATION

Consumer choice is strengthened by the existence of a range of options. Consumer agency therefore depends on a thriving financial technology landscape that supports innovation and product diversity.

Over the past decade, this landscape has begun to take shape through the democratization of services and user-friendly functionalities that aim to increase consumers’ satisfaction with and overall participation in the financial system. These include personal financial management tools, modern payroll systems, mobile-optimized account management interfaces, and account security and fraud prevention services.

Specifically, nonprofits like EARN use aggregators to automatically match savings that low-income households set aside in their accounts. Companies like Digit rely on aggregators to underpin its automated savings solutions, making it easier for U.S. consumers—many of whom have less than $1,000 in their bank accounts and struggle to manage expenses—to start saving money. Businesses like Even turn to aggregators to provide insight into transaction flows to suggest improvements to spending habits. Applications like Betterment and Wealthfront, which were some of the first companies to democratize investment advice, rely on aggregators to draw insights from rich transaction data.

What’s more, consumers who benefit from aggregators’ technologies are not merely individuals. Owners of small companies rely on software that leverages aggregator data to run their businesses. For example, accounting software like Xero uses aggregators to make it easier to link account information and manage finances. Modern approaches to payroll like Gusto and Justworks turn to aggregators to seamlessly connect employee accounts for direct deposits.

These and other services make it easier for people to control their financial lives. They are the result of a healthy, competitive ecosystem that drives innovation by encouraging companies to develop better functionality, deliver seamless user experiences, and focus on pockets of the market that might not otherwise get attention.

This innovative environment is made possible by data aggregators. Their application programming interfaces, or APIs, connect traditional financial institutions and financial technology applications that seek to access and utilize data. (See How third-party data aggregators have evolved.)

By providing this core platform, data aggregators effectively democratize financial services—so smaller upstarts can compete and consumers can access these useful services and improved functionalities.

With some 20,000 financial institutions in the United States alone, the level of interoperability
that aggregators enable is essential for this ecosystem to not only thrive, but simply to exist.

**III. CONSUMERS SHOULD CONTROL ACCESS TO DATA**

Consumers normally give permission to aggregators to access account, transaction, and user data. This data may include the type of account, name of account, and account and routing information; amount spent, name of merchant, and merchant categories; and the account owner’s name and address. In general, this data is provided in a tokenized and encrypted format so that only necessary parties have access.

Consumers should expect reliable access to their data through applications they have authorized. But current market dynamics prevent consumers from realizing these reasonable performance expectations. In November 2015, for example, *The Wall Street Journal* reported that customers of some banks were unable to access their data through services they had authorized for several days.

Such situations frustrate and inconvenience individuals who have granted access to and depend on various financial applications to manage their daily finances. They impact the small businesses and innovators whose services rely on consumer access and aggregators. And they also create market uncertainty that may discourage innovators from investing resources into new products and services.

A compelling parallel exists in the healthcare industry, whose evolution illustrates the importance of protecting consumer choice and providing market confidence. As the healthcare industry transitioned to electronic medical records, questions surrounded the free exchange of patient health information and practical considerations arose around interoperability. However, with cooperation among healthcare providers, records companies, and other experts, the industry worked to enable protected exchange of information at the behest of patients. This not
only gives consumers more freedom to find
the best care, but also encourages providers to
deliver superior services at affordable prices.

The need to protect consumer access to data
and innovation within financial services is not
unique to the United States.

Earlier this year, the European Union Parliament
adopted a framework that recognizes the
important role aggregators play and the need
for meaningful protections for consumer access
to data. The United Kingdom is addressing
these topics by bringing together government
officials, industry stakeholders, consumer
advocates, and open data experts to develop
new standards to reconcile consumer control
of their own data with business, security, and
privacy concerns.

As technology-first
businesses, aggregators
are ideally positioned to be
strong partners in pursuit of
maximum systemic security
and risk mitigation

In the United States, various players have
begun collaborating to increase efficiencies
and clarify uncertainties. In fact, some banks
have embraced data aggregators as a means
to modernize their own services and compete
more effectively against their peers. These
banks use aggregators to power opportunities
for growth and facilitate the provision of
additional services or functionalities, such
as mobile-optimized bill pay, streamlined
account opening, efficient credit card
payments, easy payroll direct deposits, and
comprehensive loan services. Working closely
with aggregators reaps benefits while avoiding
onerous, expensive, and distracting integration
requirements.

Yet no consensus currently exists regarding
the optimal relationship between financial
institutions and the data aggregators that
underpin innovation in the sector. Uncertainty
surrounding the relationship between
financial institutions and aggregators—and, by
extension, the innovative services they power—
only shortchanges consumers. It is imperative
that clarity be reached, driven by consumers’
right to access and control their own data.

IV. STRONG PARTNERSHIPS
SUPPORT SECURITY

Any conversation about access to personal
financial data quickly turns to security.

Indeed, many financial institutions argue that
potential security issues underpin concerns
related to third-party access to consumers’
account information.

This is a worthy priority. Strong security is in
the best interest of all parties involved in the
financial ecosystem. With financial services in
the crosshairs of increasingly sophisticated
cyberattacks—most will remember the historic
data breach at JPMorgan Chase in 2014, in
which the personal information of more than
100 million customers was stolen—security
must be top of mind.

As technology-first businesses, aggregators
are ideally positioned to be strong partners
in pursuit of maximum systemic security
and risk mitigation. Aggregators are able to
put forward—and implement—security best
practices in real-time. Already, they implement
advanced, layered levels of security that are
commensurate with the capabilities of traditional
financial institutions. (See *Aggregators are on
the leading edge of security*.)

Moreover, as gatekeepers in the financial
technology system, aggregators can ensure
that any party accessing, using, or storing
personal financial information meets uniform
minimum security standards.

This progress provides end-to-end encrypted
authentication to every consumer—not
just those who happen to bank with select
partners.
Instead of having consumers share their banking credentials to permission multiple applications and platforms to access financial data—which results in a higher risk of their accounts being breached, misused, or abused—aggregators can serve as a secure intermediary to minimize exposure.

Many aggregators are actively working on efforts to build a more secure system. Aggregators can eliminate the need for consumers to manually enter account and routing numbers when linking bank accounts to other platforms. This not only creates added efficiency, it also reduces another common point of vulnerability.

Additionally, some aggregators are working to eliminate the use of credentials, instead working directly with banks to increase security while preserving developer-friendly approaches. This provides financial applications with the functionality they need to serve consumers—but without direct access to consumers’ credentials or accounts.

V. RECOMMENDATIONS FOR BUILDING A SECURE SYSTEM DRIVEN BY CONSUMER CHOICE

A robust financial system should ensure that people have choices in how they interact with and understand their finances, can control their personal financial information, and feel confident that their decisions are supported by the best security possible.

Maximizing the empowerment of consumers and protection of personal information requires a strong partnership between traditional financial institutions, data aggregators, and financial applications.

As such, three key principles should guide the development of the financial services ecosystem that legacy financial institutions, data aggregators, startups, policymakers, and regulators must work together to build.

These principles are:

Protect the ability to innovate and compete. Innovation in the financial services industry benefits consumers, as consumers cannot be empowered if they do not have choice. New technologies offer consumers unprecedented opportunities to overcome traditional barriers in financial services with secure, user-friendly, affordable options.

As such, the ability for developers and
entrepreneurs to bring new services to market must be protected, as should their ability to access information and tools that data aggregation technologies are designed to provide. Anti-competitive practices or intentional barriers to entry should be identified and disallowed.

**Consumers who choose to bank at small institutions should not be inadvertently denied access to financial technology products and services**

In the same vein, new protocols should be adoptable by both large and small financial institutions. Any future system must preserve the ability of small community banks and credit unions to compete. Specifications and standards with large implementation costs unfairly favor larger players over smaller institutions that may lack such resources. Consumers who choose to bank at small institutions should not be inadvertently denied access to financial technology products and services. To protect innovation and consumer choice, it is essential to create a model that is inclusive of every financial institution with which a consumer chooses to bank.

**Grant consumers control over their personal financial information.** Empowered consumers should have access to—and control over—information across all of their accounts.

Consumers should have the ability to deploy their own information in order to benefit from new services or improved functionalities.

Additionally, they should expect transparency in terms of how financial institutions, aggregators, and applications are accessing and using their data. Consumers should also be able to easily revoke permission to any platform accessing their data. And they should have the right to opt out of their data being shared, even if it can no longer be linked to them.

**Promote better security for personal financial information.** Cooperation among stakeholders stands to strengthen the overall security of the system. Aggregators are a neutral party, without competitive self-interests, that can play a key role in developing and enforcing uniform security standards in partnership with developers and traditional financial institutions.

Financial institutions should formally recognize trusted third-party data aggregators. In turn, aggregators should help banks implement uniform minimum security standards among third parties accessing personal financial information.

Finally, the use of tokenization should be utilized more broadly in the future to minimize the exposure of credentials, account numbers, and routing numbers throughout the system.

**VI. CONCLUSION**

Traditional financial institutions and firms in the financial technology sector tend to agree on several key points. The interests of the consumer should be put first. Maximizing security in the financial system is an urgent priority. And leadership will be required to develop a clear framework to accomplish these important objectives.

The United States’ breakthroughs in the healthcare system suggest that progress in financial services is within reach. Additionally, the attention these issues have received in the European Union and United Kingdom underscores the importance they play in promoting innovation and competition.

The United States should follow suit in designing and implementing a framework that guides the continued evolution of the financial services sector in a way that is balanced, secure, and competitive—and puts the consumer first.

A strong partnership between established financial institutions and technology firms will be critical to the success of any such effort.