



## Eastern Bank Challenges the Status Quo in Bank Lending by Implementing the DocuSign eSignature API to Digitize Processes

"Implementing a digital transaction strategy was a huge win for Eastern Bank. It started out as an experiment, but ended up as a game changer for our business and our customers."

- Laurence Stock, Senior VP

Eastern Bank has been in business for 198 years. In fact, it is the oldest mutual bank in the United States. Banking is a traditionally conservative industry – resistant to change. However, customer expectations of quick service and immediate decisions led the Board and executive management team at Eastern Bank to abandon 'business as usual' for an industry-leading approach.

To satisfy changing customer expectations, Eastern Bank founded a technology division of the bank, called **Eastern Labs**, run by a team of technical entrepreneurs.

To execute the board's vision, Eastern Labs identified the key elements of a digital strategy and developed a plan to prototype, test, and integrate rapidly. Eastern Labs determined that paperwork was a major source of friction for most banking products. In fact, a small business loan could take up to three weeks to close – putting that SMB customer's plans and success on hold. The first priority for Eastern Labs was to identify the market leader in the Digital Transaction Management (DTM) space and to integrate eSignature capability into all software products it builds moving forward. That market leader was DocuSign.

### Off to the Races

After realizing that eSignatures had to be implemented to alleviate paperwork friction, Eastern Bank embarked on an aggressive mission to pilot a program that offered loans to a select group of its existing small business clients. Their approach was rather unconventional in the banking industry. Instead of relying on existing lending processes (that resulted in unnecessary friction), they realized that for a truly innovative solution they needed to be bold and solicit input from actual customers along

the way to ensure its adoption. Piloting a limited and targeted program in this fashion enabled Eastern Bank to minimize risk, while analyzing if the program would succeed and identifying opportunities to optimize the program for success.

To execute Eastern Bank's pilot program, Eastern Labs embarked on an ambitious journey to achieve the following application design tenets:

- The digital experience needed to work anywhere, on any device. This includes online, on mobile devices, and even in-branch. In fact, the model needed to be flexible enough for a customer to start the process using one method and complete it using another.
- The entire experience (both inside and outside the bank) had to be 100% secure and completely paperless and the borrower had to be able to complete the online application in less than two minutes.
- Only relevant questions were to be asked of the borrower. Eastern Bank decided not to ask questions during the application process that could be looked-up in its existing databases. Since the pilot program was only open to existing small business customers, so much of the information was already known. This enabled Eastern Labs to develop a new online process that while previously required 19 pages of paper, now only asked five questions online.
- A loan decision on whether to approve a small business loan had to be completely automated in 30 seconds or less, fully implementing the bank's existing credit policy and ensuring compliance with bank and regulatory rules and practices.
- The eSignature process had to be flexible enough to offer email, in-person, embedded signing, or a combination of all three.

## Thinking out-of-the-Box

Before beginning the application and infrastructure design process, Eastern Labs had to fulfill one important prerequisite – to think out-of-the-box. After all, the goal was to challenge the typical bank loan process and to eliminate friction. The first thing Eastern Labs did was focus on simplicity. In other words, Eastern Labs did not want to design an overly-complex process, but still had to conform to rules, regulations, bank policies, and customer privacy practices.

All aspects of the Eastern Labs solution would be focused on the customer and the positive perception towards ease of use and Eastern Bank itself. Not only did Eastern Labs develop a solution that conforms to all design tenets described earlier, but they dramatically enhanced customer perception in an unprecedented way. Since the ultimate solution was completely automated, as soon as all documents were eSigned and flagged as complete, Eastern Bank decided to fund the loans by immediately transferring the money into the borrower's account (typically within three minutes). Therefore, the goal of the entire process was to take less than five minutes, including the loan application, approval, document eSignature, and immediate funding of up to \$100,000.

Eastern Labs selected DocuSign due to a variety of factors, including:

- A proven, mature, and fully-documented and supported API
- A breadth of functionality to support a range of products and customer experiences
- Brand recognition, which is vital for customers to be comfortable and familiar with a fully digital experience
- Compliance support in the highly-regulated banking industry

## True Innovation in Action

For the small business loan pilot program, Eastern Bank sent an invitation email to specific small business customers. The customer would click the link in the email, which brought up the web page shown in Figure 1.

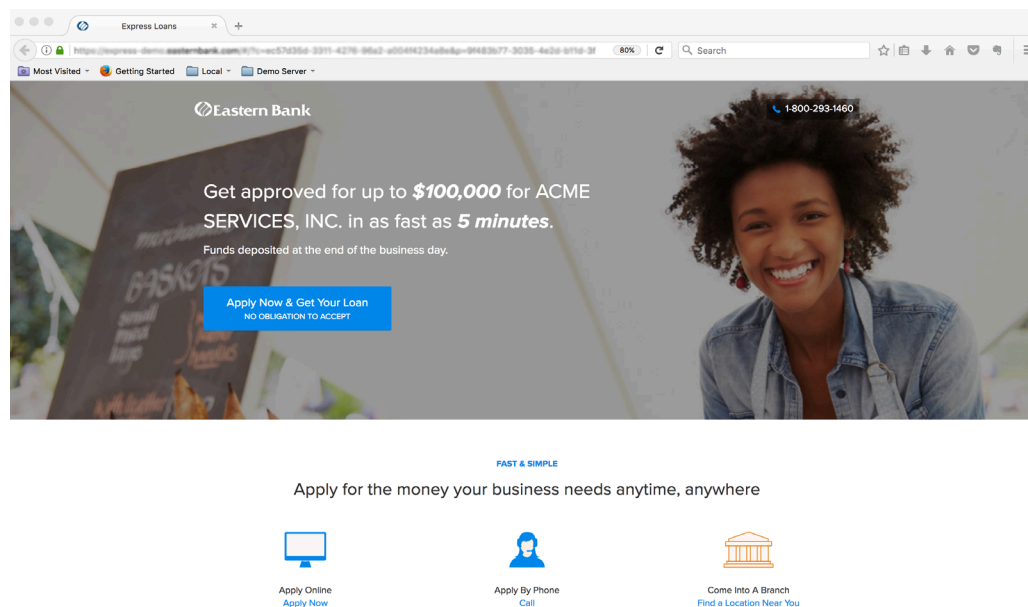


Figure 1: Beginning the application process by clicking the link in the invitation email.

Clicking the **Apply Now & Get Your Loan** button began the simple, two-minute process of applying for the small business loan. The customer would answer the five basic questions shown in Figure 2, then clicks the **APPLY** button.

The screenshot shows a web browser window titled "Express Loans" with the URL "https://express-demo.easternbank.com". The page is titled "Express" and "COMPANY AND PERSONAL INFO". It contains three numbered steps:

- 1 Confirm Your Business Information:** Shows company details for ACME SERVICES, INC. (75 BUSINESS WAY, LYNN, MA 01901, 508-555-1212) and a field for Annual Sales.
- 2 Fill Out Loan Request Information:** Includes a dropdown for "How much are you requesting?" (set to \$10,000 - \$100,000) and a dropdown for "Where would you like your loan deposited to?".
- 3 Confirm Your Personal Information:** Shows personal details for EDWARD IGACCOMINI (2650 N GEORGE, TOMORROW, IL 60750, edigac@ed.com) and a field for Social Security Number. It also includes a question "Are you the sole owner of this business?" with "Yes" and "No" radio buttons.

At the bottom, there is a checkbox for "I certify that I am the previously mentioned owner and I agree with the Agreement of Borrower and authorize Eastern Bank to obtain and review my personal credit report." and a green "APPLY" button.

Figure 2: Loan application process with only five basic questions.

In less than 30 seconds, the small business customer would have a decision on the loan application. During this timeframe, the solution created by Eastern Labs accessed the applicant’s personal credit, [Dun and Bradstreet](#) business report, banking history, and more. The algorithm processed these data points and computed a risk profile. If the risk profile is low, the applicant is approved for the loan and sees the message shown in Figure 3. The algorithm was even smart enough to route the approved loan through a [Small Business Administration](#) (SBA) guarantee program in certain situations.

The screenshot shows the "Express Loans" application page at the "REVIEW AND SELECT OFFER" stage. It displays a "Congratulations - you're approved!" message and a summary of the loan offer:

- Term Loan**
- \$50,000**
- 6.99 % interest
- 60 month term
- \$989.82 monthly payment**
- \$100 origination fee

Below the summary is a green "SIGN DOCUMENTS" button. A note states: "You were approved for the full amount requested. ACME SERVICES, INC. applied for \$50,000 on January 29 2017. We approved the application on January 29 2017. This offer expires on February 28 2017." There is a "Decline this offer" link. The "Application Information" section lists:

- Company Name: ACME SERVICES, INC.
- Primary Applicant: EDWARD IGACCOMINI
- Date Applied: January 29 2017 6:54 PM
- Amount Requested: \$50,000
- App Id: 1965

Figure 3: Web page showing loan approval and the terms offered by Eastern Bank.

If necessary, Eastern Labs' algorithm would attempt to compute a counter-offer for a lower loan value that conformed to an acceptable level of risk. In either case, if the applicant found the offer acceptable, clicking the **Sign Documents** button began the DocuSign eSignature process to review the loan documents and officially accept the offer, as shown in Figure 4.

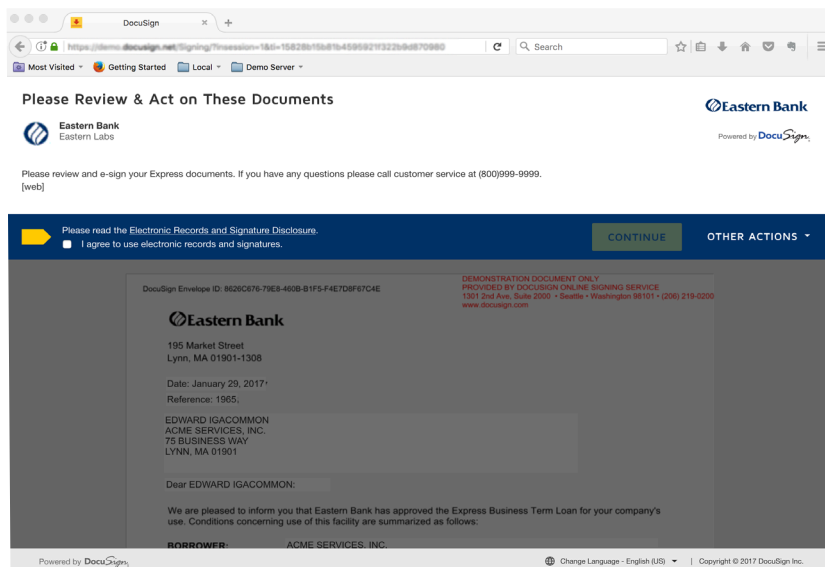


Figure 4: Reviewing and signing DocuSign documents after a loan offer.

## The Tech Stuff

To incorporate the eSignature process, Eastern Labs implemented the [DocuSign eSignature REST API](#). Laurence Stock, Senior Vice President and co-founder of Eastern Labs, created the initial DocuSign Proof of Concept in a single afternoon. Since then, the team has grown to twelve enterprise developers and they created their full enterprise-grade solution over the course of six months in late 2015. They used the [Python recipes](#) provided by DocuSign to jumpstart their development efforts, and they even asked a couple of questions in the [Stack Overflow forums](#). From the outset, Eastern Labs didn't want to customize the standard DocuSign experience from an end-user perspective. Instead they wanted to keep the Out-of-the-Box Experience (OOBE) so that customers who have already used DocuSign would be familiar with the process. Eastern Labs developed their solution to use [DocuSign templates](#) to dynamically create composite envelopes to support loan documents for different loan types and number of applicants.

One major decision point was to determine how to check the status of DocuSign envelopes, and how to determine if something went wrong during the loan application process (such as a user closing the web browser in the middle of a signing session). One potential option was to use [DocuSign webhooks](#). However, due to strict regulations, Eastern Bank is locked-down and cannot accept incoming webhook messages. Therefore, Eastern Labs came up with an innovative way to determine the status of envelopes by appending parameters to the URL (the details of which are proprietary). For any envelope whose status is not complete, Eastern Labs wrote code that uses standard DocuSign status polling every 15 minutes. This enabled Eastern Bank to learn if some adverse condition took place during the signing process that prevented the signing of the documents. If something did occur, the system automatically emails bankers so the problem can be addressed immediately.

After the documents are DocuSigned, they are stored permanently in a repository within Eastern Bank, but they are also available to customers using their own DocuSign account (which they can create for free if they don't already have one).

## Banking on Success

Eastern Bank considers the pilot program to be incredibly successful – in fact – game changing. When they embarked on this mission, they didn't know if customers would be receptive to a fully-digital process for loan applications. The thinking was that Eastern Labs would alter their solution, if necessary, based on negative feedback. They found that customer acceptance was very high. So high, in fact, that after completing thousands of loans, there was only a single negative comment about the eSignature process. Additionally, the completion rate of documents was near 100%.

Eastern Bank's approach to starting a controlled pilot program, learning from customer feedback, and gradually expanding the program, has been critical to its DTM success. The pilot started as an online-only program, offered to small business customers. With the pilot's success, Eastern Bank expanded the experience to be available inside a small number of bank branches. It then added more complex use-cases, such as SBA loans, followed by the complete rollout to all physical branches.

Building on these highly-successful pilot programs that have resulted in many referrals and repeat customers, Eastern Bank has plans to leverage the new application infrastructure to rollout other products throughout the bank. Bankers are now able to take "the show on the road" to customer locations or convenient meeting places, armed with iPads loaded with their successful API-integrated software.

Eastern Bank has built a solid application infrastructure that is scalable to additional products, so they can, once-again, think out-of-the-box to challenge traditional lending practices. They are also working on data mining models to proactively understand customer growth to offer tailored products to them, all of which will be offered digitally using DocuSign's eSignature API.

You can hear Laurence tell the Eastern Bank story at the [DocuSign Momentum conference](#) in San Francisco, from May 3-4, 2017. Developers can attend for free. Also, don't forget to try-out the power and flexibility of the DocuSign eSignature API for yourself with a free sandbox – just visit the [DocuSign Developer Center](#), and see for yourself why Eastern Bank chose the DocuSign API.

### About DocuSign

DocuSign® is changing how business gets done by empowering anyone to send, sign and manage documents anytime, anywhere, on any device with trust and confidence. DocuSign and Go to keep life and business moving forward.

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