Loan Monitoring: Innovation in Software Platforms

White Paper

Date: October 2025

Prepared by: Summit
777 6th St. NW, Suite 520
Washington, DC 20001 | www.summitllc.us

For more information, please contact:

- **Katie Janik**, Subject Matter Expert (coauthor)
  katie.janik@summitllc.us | 202-407-8300 (Tel)
- **Michael Rodriguez**, Subject Matter Expert (coauthor)
  michael.rodriguez@summitllc.us | 202-407-8300 (Tel)
- **Anthony Curcio**, Senior Partner
  anthony.curcio@summitllc.us | 202-407-8303 (Tel)

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Introduction

The platforms that federal credit programs use have evolved from paper-based processes to digital and predictive-focused platforms. Technology and innovation increase the effectiveness of resources for risk management, compliance, and efficiency. Modern loan monitoring platforms have addressed these challenges by offering modular, cloud-based systems that provide scalability, integration with external tools, real-time reporting, and automation.

The Evolution of Loan Monitoring Systems

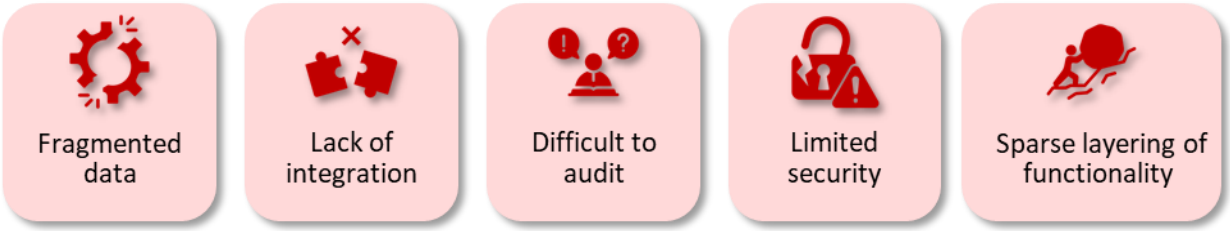
Loan monitoring systems in the government have evolved over the years. It started simply—with spreadsheets, handwritten ledgers, and stacks of paper files. The data was siloed, decentralized, and almost impossible to analyze across programs or loans. One project manager may be tracking borrower information on their desktop and another project manager using a central folder with no way to compare or monitor data in real time.

Today's loan monitoring systems are moving beyond digitization to deliver visibility, flexibility, and predictive power—enabling agencies to not just store information, but to use it for smarter decision-making and proactive oversight.

The first wave of modernization was to digitize documents or scan PDFs into shared drives or document management systems. While these electronic versions are easier to access, the data inside the PDFs remains unstructured. Running a report or triggering an alert from a scanned image is not possible, so the process for analysis, reporting, and queries remains manual. Thus, the information became available but not usable for queries, analysis, or reporting.

The next wave of modernization was to customize legacy systems. These systems were built in-house or through contractors, and each one was tailored to the agency's identified needs at that time. Often, these in-house, custom-built systems were not scalable. They were expensive, lacked flexibility, and depended on internal IT teams for updates (large or small).

Figure 1: Common challenges to using legacy (or patched-together) systems



Many of these legacy or patched-together systems are still in use today, which presents several challenges:

- **Data fragmentation.** Information is spread across spreadsheets, Microsoft Access databases, shared drives, and legacy apps. This fragmentation hinders a complete picture of a loan portfolio.
- **Lack of integration.** Most older systems were not built to communicate with newer tools. It will be difficult for programs to layer on a dashboard like Power BI or add AI-based risk alerts.

- **Difficult to audit.** Manual processes make it difficult to trace who did what and when, the date of decisions, and whether the correct processes were followed.
- **Limited security.** Legacy systems often lack modern encryption, user role controls, or multi-factor authentication. That puts sensitive borrower data at risk.
- **Sparse layering of functionality.** Patching together the desired functionality by layering modern functionalities on top of legacy systems fragile integrations, inconsistent performance, and limited scalability – where each new feature risks breaking the underlying system rather than enhancing it.

Agencies continue to layer systems. It is like building a new home on the old home's foundation and plumbing. A federal credit program might add reporting tools or workflow tools on top of a mainframe system, but the foundation is not built to support modern amenities like analytics or automation. The result is clunky, expensive to maintain, and limited in ability for enhancements and updates.

What "Modern" Really Means

A modern platform includes the following key features:

Modular and cloud-based. A federal credit program does not need to start from scratch. Modular and cloud-based systems offer out-of-the-box functionality and are scalable to the necessary functionality for each program. The system can also include a module for portfolio management activities, origination activities, credit subsidy, or other functionality. Whether a program is managing 10 loans or 10,000, the system adjusts without a full redesign.

Integration-ready. Use of Application Programming Interfaces (APIs) enables connections with accounting systems, customer relationship management systems, and document repositories. If the system needs data from a loan accounting tool like Oracle or a budgeting system like Momentum, a modern platform can pull or push data without manual reentry. This piece is critical and sounds easy but can become complex when integrating multiple systems.

Real-time reporting. Agencies can use Power BI, Tableau, or other back-end tools to create dashboards, alerts, and visualizations that the user sees as one seamless system.

Borrower self-service. Borrowers can log in, upload financials, submit compliance reports, request disbursements, and even get automated feedback. Some federal agencies already have this—like the U.S. Department of Agriculture Rural Development, where borrowers can track disbursement status and upload documents directly.

Automation of manual steps. The system should automatically flag when a payment or report is late, or when required documents have not been submitted. It can also validate data formats to avoid incomplete or incorrect filings.

Time savings. Reducing administrative load for portfolio managers (PMs) leaves more time to focus on analyzing risk or supporting borrowers.

Predictive tools. Using AI to forecast loan performance based on borrower behavior, historical data, and industry trends. A modern system flags anomalies so portfolio managers can intervene early and proactively mitigate risk.

Real Examples and Use Cases

Imagine this example where a borrower uploads their quarterly financials. A modern system reads the document, extracts revenue and cash flow metrics, and compares them to the agreed-upon covenant thresholds. If the borrower has missed their targets for two quarters in a row, the system automatically flags it, updates the loan risk dashboard, and suggests a draft risk report for the PM. Now spread that across multiple loans and imagine that the portfolio manager gets a dashboard showing risk exposure, upcoming covenant deadlines, and missing documents—all in real time. This is a simple example but when a loan is in trouble or a large amount of funds are at stake, this is critical.

In a legacy system, when a borrower submits their report, the borrower emails or uploads a PDF. The PM opens it, manually reads through it, copies numbers into a spreadsheet, compares it to previous quarters, and maybe raises a flag if they catch something. No automation. No tracking. No audit trail. And if that PM is out sick or on vacation, it is possible no one else knows what is happening with that loan.

Borrower Experience and Agency Efficiency

Borrower self-service is one of the most important upgrades modern loan platforms can offer and it benefits both the agency and the borrower. On the efficiency side, the platform streamlines data that used to include back-and-forth email chains or clunky document uploads. Borrowers can accomplish the following in one place:

- ☑ Log into a secure portal.
- ☑ See exactly what documents or reports are due.
- ☑ Upload files in the required format.
- ☑ Confirm compliance.
- ☑ Receive feedback or reminders.

This streamlining eliminates confusion, miscommunication, and missed deadlines. Borrowers do not plan to be noncompliant but often do not know what is missing or when something is due. Self-service tools allow borrowers to do the following:

- ☑ View a clear dashboard with current loan status.
- ☑ Receive automated alerts for upcoming or overdue submissions.
- ☑ Fix issues before they escalate.

Compare this automated process to the traditional process, where a borrower submits a report, waits for someone to review it, then gets an email a week later saying, “Three pages are missing.” That lag time creates inefficiency and frustration on both ends.

From the agency perspective, borrower self-service portals and automation are a time saver and improve standardization. The self-service portal offers the following key benefits:

- ☑ Produce reports in a structured format.
- ☑ Tag and categorize documents as they arrive.
- ☑ Eliminate the need to manually check inboxes or hunt for attachments.

Additionally, a self-service portal builds accountability. Instead of sending an email saying, “Hey, your quarterly report is late,” the system can show the borrower their compliance status in real time. It is visible, trackable, and shifts the dynamic from “chasing” to shared responsibility. In the end, borrower self-service is more than a convenience feature, it is an operational enabler. It helps agencies process loans efficiently, helps borrowers stay on track, and sets the foundation for a collaborative, transparent lending relationship.

Looking Forward

As federal credit programs move from mainframes and hosted servers to cloud platforms, there are three items to keep in mind:

1. **Start modular.** Avoid replacing everything at once. Focus on core features like document intake, borrower tracking, and reporting.
2. **Insist on open APIs.** Allow your new system to grow with you and plug into future tools.
3. **Build for the long term.** Choose a platform that is scalable, secure, and compliant with federal IT standards like FedRAMP and FISMA.

Above all, design with the user in mind—whether a loan officer, a borrower, or an auditor. The future is adopting modular, cloud-based platforms with open APIs for integration and long-term scalability. By focusing on core features first and designing with the user in mind, agencies can transition from legacy systems to a secure, efficient loan monitoring system that meets the needs of both borrowers and agencies.

Modular, cloud-based platforms are the future of secure and efficient loan monitoring systems. By starting with core features, insisting on open APIs for integration, and designing with users in mind, agencies can ensure a smooth, scalable transition from legacy systems.