



CLIENT

Ministry of Labor · Lebanese
Republic

SOLUTIONS DELIVERED

Work Permits · E-Services · Workflow · MOF
Payments · Prior Approvals · Blacklist Engine



Overview

The Ministry of Labor of Lebanon (MoL) is the government authority responsible for regulating employment relations, enforcing labor legislation, and managing work permits for foreign nationals across Lebanon. The Ministry serves a broad ecosystem of stakeholders including Lebanese workers, foreign nationals, private companies, and placement agencies, playing a pivotal role in shaping the country's labor market through permit management, rights protection, job placement, and regulatory compliance.



Needs and Challenges

The Ministry already operated a digital platform supporting its daily services, but the system had grown outdated. Critical security gaps, manual paper-based steps within several workflows, and ageing technology were limiting the Ministry's ability to deliver fast, reliable, and secure services. Datavera was engaged to upgrade the existing platform, strengthen its security foundation, and introduce new capabilities aligned with current needs and future growth.



Implementation Highlights

Datavera modernized the Ministry's existing Labor Management Platform with stronger security, closed long-standing vulnerabilities, and introduced a centralized fraud-prevention layer, while preserving continuity for staff and stakeholders already relying on the system.

- **Platform Modernization:** Upgraded the Ministry's core service modules including work permits, prior approvals, the e-services portal, MOF payment gateway, company and agency self-service portals, and the workflow engine. Modernized legacy workflows, digitized remaining paper-based steps, and resolved long-standing usability and reliability issues across the application.
- **Security Hardening, Authentication:** Replaced legacy authentication with stronger multi-factor controls. Added OTP-based verification on sensitive flows such as clearance issuance and account changes, encrypted all stored credentials, and enforced strict role-based access across the back-office and public portals.
- **Access Control and URL Security:** Closed long-standing URL-tampering and parameter-injection vulnerabilities that had allowed direct-access bypasses to restricted pages and privileged operations. Hardened session management, locked down sensitive endpoints, and added full audit logging on every administrative action.



CLIENT

Ministry of Labor · Lebanese
Republic

SOLUTIONS DELIVERED

Work Permits · E-Services · Workflow · MOF
Payments · Prior Approvals · Blacklist Engine

- **Centralized Blacklist Engine:** The flagship addition of this engagement. A system-wide enforcement layer that blocks any new transaction, renewal, or payment for sanctioned or fraudulent parties, covering individuals, Lebanese companies, foreign companies, placement agencies, and foreign workers identified by passport. Backed by a three-layer defence design (application guard, data layer safety net, and database-level controls) with full audit trail of every check, instant kill-switch for safe rollback, and an admin management interface for adding, searching, and reversing entries.

KEY OUTCOME

A modernized, security-hardened platform with a **centralized fraud-prevention engine** at its core. Long-standing vulnerabilities closed, OTP-based authentication on sensitive operations, and system-wide blocking of any transaction, renewal, or payment attempt by sanctioned or fraudulent parties.



Impact and Achievements

- Closed long-standing security vulnerabilities across authentication, access control, and URL handling, significantly reducing fraud and abuse exposure.
- Strengthened authentication with OTP-based verification on sensitive operations and encrypted credential storage, protecting government and citizen data at every entry point.
- Deployed a centralized blacklist enforcement system that blocks every transaction, renewal, and payment attempt by sanctioned or fraudulent parties, drastically reducing legal and reputational risk.
- Modernized and stabilized the core service modules and digitized remaining paper-based workflows, reducing processing time and removing cash-handling overhead through the new Ministry of Finance integration.



Conclusion

The partnership between the Ministry of Labor Lebanon and Datavera marked an important step in Lebanon's digital government journey. By upgrading its core labor services platform with new features and modern technology, the Ministry strengthened its operational security, efficiency, and transparency, reinforcing its position as a credible institution serving Lebanon's labor ecosystem with the reliability and accountability that citizens and businesses deserve.

ABOUT DATAVERA

Datavera is a leading digital transformation provider delivering innovative technology solutions across government, banking, and enterprise sectors. With deep expertise in enterprise platforms, workflow automation, and secure application development, Datavera empowers organizations to achieve operational excellence and sustained digital agility.