

Call for Proposals (CFP): Development of a Modular Traceability Software System

Overview

The Regulated Substances Authority (RSA) of Saint Lucia invites proposals from qualified software development firms to design, develop and deploy a modular traceability system to support the end-to-end tracking of regulated substances. The initial module will focus on seed-to-sale tracking for cannabis, based on the attached workflow documentation.

The system must be scalable to accommodate future modules for explosives, pesticides, mushrooms, and alcohol regulation and control.

Objectives

1. To ensure real-time traceability and regulatory oversight of cannabis products from seed to sale.
2. To support compliance with national and international standards.
3. To reduce diversion, loss and non-compliance through digital chain-of-custody.
4. To build a flexible software architecture that accommodates future expansion into other sectors.

Scope of Work

Phase 1: Cannabis Traceability

- Unique ID assignment and batch creation
- Cultivation, harvest and processing data capture
- Testing, packaging and labeling integration
- Inventory and warehouse management
- Distribution, transportation, and retail sale tracking
- Waste management and destruction records
- Regulatory reporting and analytics
- Role-based user permissions and audit trails
- Secure cloud hosting or hybrid architecture

Future Phases (To Be Scoped Later):

1. Explosives tracking module
2. Pesticide registration and distribution monitoring
3. Psychoactive mushroom cultivation and sales oversight
4. Alcohol manufacturing, licensing, and inventory monitoring

Functional Requirements

- Real-time tracking with barcode/RFID/QRC integration
- Dashboard & reporting tools for regulators and licensees
- Automated compliance alerts
- Mobile accessibility for inspections and field agents
- Multi-tenant access levels for regulators, licensees, labs, etc.
- APIs for third-party lab and POS system integration
- Blockchain-ready architecture (optional for future immutability)

Compliance Standards

- Align with best practices from METRC, BioTrack, Health Canada, and EU-GMP
- Ensure GDPR/local data protection compliance
- Include audit log functionality for all transactions and edits

Proposal Requirements

- Company profile and relevant experience
- Understanding of the project and approach
- Technical architecture and scalability model
- Short Demo of the application concept
- Detailed timeline and milestone plan
- Budget estimate (including licensing, development, and support)
- Examples of past work in similar regulatory or traceability systems

Evaluation Criteria

Experience with regulatory or government-grade systems (30%)

Technical approach and innovation (25%)

Cost-effectiveness (20%)

Scalability and modular design (15%)

References and previous performance (10%)

Submission Deadline

Participation and Award Disclaimer

All parties submitting proposals in response to this Call for Proposal (CFP) do so voluntarily and at their own risk, cost and expense.

The RSA shall not be liable or responsible for any direct, indirect, or incidental costs or expenses incurred by applicants in the preparation, submission, presentation, clarification, or follow-up of their proposals.

The submission of a proposal in response to this CFP shall not constitute a binding obligation on the part of the RSA nor shall it be interpreted as a guarantee or commitment to award a contract or enter into any agreement with any applicant. Furthermore, the RSA assumes no responsibility to reimburse applicants for any time, effort, or resources invested in responding to this CFP.

While all eligible submissions will be evaluated fairly and transparently based on the criteria outlined in this CFP, only the applicant whose proposal is determined to be the most responsive, technically sound and aligned with the objectives of the initiative namely, the design, development, and implementation of a Traceability Software Solution for the regulated cannabis industry will be considered for award of the contract.

By submitting a proposal, applicants acknowledge that they have read, understood, and accepted the terms and conditions stated herein.

All proposals must be submitted by **21st July, 2025** to:

Chief Executive Officer

Regulated Substances Authority

Bisee, Castries

Saint Lucia

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