



LANDANO

Cardano Mendix plug-in by the Landano team

Release Candidate Testing Documentation

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Cardano Mendix Plugin – Preliminary Testing Documentation

1. Project Overview

The **Cardano Mendix Plugin** bridges the world of low-code application development and blockchain technology. Built with Mendix 10 and integrated with the **Cardano Client Lib**, the plugin enables developers to embed Cardano blockchain capabilities—such as transactions, NFT minting, and smart contract interactions—directly into Mendix applications.

This approach aims to **dramatically reduce the technical barriers** associated with blockchain development by providing a Mendix-native abstraction layer for common blockchain operations. The plugin is designed to be modular, extensible, and secure, with a strong focus on usability within enterprise environments.

⚠ This document will be published on our official site as part of the Fund 11 milestone deliverables: <https://www.landano.io/project-catalyst/fund-11/>

2. Features Tested

2. Features Tested

Extensive functional and integration testing was conducted on the plugin's end-to-end flows using both custodial and non-custodial wallets. The tests included single- and multi-recipient transactions, token transfers, NFT minting/burning, and smart contract execution.

2.1 Wallet Functionality

- Create wallet
- Restore wallet
- Connect wallet (CIP-30 browser wallet)

2.2 Transaction Handling

Simple Transactions

- ADA only, 1 recipient
- ADA & token, 1 recipient
- ADA, multi-recipient
- ADA & token, multi-recipient

- ADA only, 1 recipient (non-custodial)

Multi-Signature Transactions

- ADA only (native script policy)

Metadata Transactions

- ADA with metadata (< 64 chars)
- ADA with metadata (> 64 chars)

NFT & Native Token (FT) Transactions

- NFT mint
- NFT burn
- FT mint
- FT burn

Smart Contract Interaction

- Hello World script lock/unlock
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3. Testing Methodology

3.1 Sprint-based Approach

- Two-week sprint cycles under Scrum
- CMP Sprint 5 focused on functional completeness and edge cases
- Test scenarios derived from real use cases, previous bug reports, and exploratory testing

3.2 Issue Tracking

- All test outcomes and bugs tracked via Jira
- Full sprint export: [Jira Export Document](#)

3.3 QA Workflow

- Unit and integration tests performed by dev team
 - Exploratory testing by independent testers
 - Resolved bugs categorized by severity
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4. Key Findings and Issues

4.1 UI and Usability

- Fixed input retention when navigating back in NFT flows ([CMP-68])
- Improved layout and copy buttons in wallet views ([CMP-25])
- Fixed empty screens and default behaviors for minting flows ([CMP-65])

4.2 Metadata and Token Standards

- Resolved incorrect IPFS image array bug ([CMP-69])
- Validated full compatibility with CIP-25 for NFT metadata
- Added support for minting/burning native tokens with quantity validation ([CMP-57])

4.3 Smart Contract & Signing Flows

- Fixed transaction freeze after non-custodial wallet signing ([CMP-70])
- Validated witness handling and script execution for HelloWorld demo ([CMP-58])

4.4 Error Handling & Feedback

- Enhanced transaction error messages ([CMP-39])
- Address format validation improvements ([CMP-63])
- UI prompts for missing policies and quantity errors ([CMP-67])

4.5 Additional Fixes

- Policy script validation when minting ([CMP-56])
 - Upgrade to latest Landano Core design module ([CMP-23])
 - Query and display transaction metadata ([CMP-19])
 - CIP-30 wallet integration and connectivity ([CMP-13])
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5. Resolution Tracking

All issues tested and resolved in this release were managed using a structured sprint board workflow (To Do > In Progress > Review > Test > Done). This ensured transparency and traceability of testing progress.

Key bug and story tickets resolved in CMP Sprint 5:

- CMP-70, CMP-69, CMP-68, CMP-67, CMP-66, CMP-65, CMP-63
- CMP-61, CMP-58, CMP-57, CMP-56, CMP-39, CMP-36, CMP-35, CMP-30
- CMP-25, CMP-24, CMP-23, CMP-19, CMP-13

This concludes the release candidate testing phase of the Cardano Mendix Plugin. This document will be made available at: <https://www.landano.io/project-catalyst/fund-11/>