

Cardano Mendix plug-in by the Landano team

Release CandidateTesting 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

## **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](https://www.landano.io/assets/downloads/2025/04/cardano-mendix-plugin--all-stories.doc)

### **3.3 QA Workflow**

* Unit and integration tests performed by dev team
* Exploratory testing by independent testers
* Resolved bugs categorized by severity

## **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])

## 

## **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/>