Aave V3 MAI and FRAX Verification and Listing
Stewards Audit

Scope
The scope of the assessment is Aave V3 MAI and FRAX, which were formally verified due to the unique nature of the contracts. The assessment was manually verified due to the complexity of the contracts.

The MAI and FRAX contracts were securely integrated into the Aave V3 platform on the Avalanche, Fantom, and Polygon blockchains.

Contracts Overview
A comprehensive verification of the Aave V3 MAI and FRAX contracts led to the following conclusions:

- **Contracts Overview**
  - **Six contracts were audited:** AaveV3AvaMAIListingSteward.sol, AaveV3AvaFRAXListingSteward.sol, AaveV3FantomMAIListingSteward.sol, AaveV3FantomFRAXListingSteward.sol, AaveV3PolygonMAIListingSteward.sol, AaveV3PolygonFRAXListingSteward.sol.
  - **Verification:** Full verification was conducted for MAI and FRAX. The latter were provisionally verified for MAI's Polygon payload.

- **Assessment:**
  - The assessment considered all aspects related to the implementation of the contracts, including security, functionality, and integration with the Aave V3 platform.
  - Security checks were performed to ensure the contracts were free from any vulnerabilities.

Audit Goals
The audit was conducted with the following goals:

- **Goal:**
  - To ensure the contracts meet the necessary requirements for listing on Aave V3.
  - To verify the contracts against the Aave V3 platform's security standards.

Findings And Recommendations

Severity: High

<table>
<thead>
<tr>
<th>Issue</th>
<th>Description</th>
<th>Recommendation</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Incorrect development of the underlying asset on Avalanche</td>
<td>The underlying asset on Avalanche was configured incorrectly with the wrong decimals.</td>
<td>Add a dedicated require condition at the beginning of the function.</td>
<td>This issue was fixed in commit 2d6b9d34.</td>
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<tr>
<td>Incorrect development of the underlying asset on Fantom</td>
<td>The correct token decimals were not used.</td>
<td>Add a dedicated require condition at the beginning of the function.</td>
<td>This issue was fixed in commit 2d6b9d34.</td>
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<tr>
<td>Incorrect development of the underlying asset on Polygon</td>
<td>The correct token decimals were not used.</td>
<td>Add a dedicated require condition at the beginning of the function.</td>
<td>This issue was fixed in commit 2d6b9d34.</td>
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</tbody>
</table>

Findings And Recommendations

Behavioral

- **Issue:**
  - Incorrect development of the underlying asset on Avalanche, Fantom, and Polygon.
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Conclusions

- **Conclusion:**
  - The contracts were found to be secure and compliant with the Aave V3 platform's security standards.
  - The contracts were provisionally verified due to the complexity of the checks.

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