SMART AFRICA EOI · CONTROLLED SYNTHETIC DEMONSTRATOR

Transaction Assessment — BANKA-HIGH_VELOCITY-003

Detailed governed assessment report for Bank A / High Velocity.

TRANSACTION	INSTITUTION	RISK	RECOMMENDATION
BANKA-HIGH_VELOCITY-003	Bank A	LOW	APPROVE

1. Assessment identity

TRANSACTION
BANKA-HIGH_VELOCITY-003

INSTITUTION
Bank A

SCENARIO
High Velocity

RECOMMENDATION
APPROVE

2. AI trust assessment







Risk category	LOW	**Model version**	TRUST-BASELINE-0.1.0
SDK version	EOI-DEMO-1.0	**Policy version**	1.0.0-DEMO
Latency	— ms	**Audit reference**	AUDIT-BANKA-HIGH-VELOCITY-003

3. Feature & context evidence

{}

4. Explainability evidence

Reason codes

TRUST-RSN-001 | TRUST-RSN-004 | TRUST-RSN-007 | TRUST-RSN-009 | TRUST-RSN-011 | TRUST-RSN-015

Feature contributions

Relative feature contribution magnitude



Human-readable explanation

The model produced risk category LOW, trust score 81.76, and confidence score 1.0. The principal model factors increasing modeled risk were: High recent transaction velocity. The principal model factors reducing modeled risk were: Established device relationship, Established payment corridor, Established customer relationship. This explanation describes model evidence only and does not constitute an institutional transaction decision.

5. Policy interpretation

Advisory recommendation: APPROVE
Policy is reported separately from AI inference.

6. Reconstructable evidence chain

Feature & Context → AI Trust → Explainability → Policy → Audit

7. Raw controlled assessment evidence


```
{
  "amount": null,
  "audit_reference": "AUDIT-BANKA-HIGH-VELOCITY-003",
  "confidence_score": 1.0,
  "currency": null,
  "explanation": "The model produced risk category LOW, trust score 81.76, and confidence score 1.0. The principal model factors
increasing modeled risk were: High recent transaction velocity. The principal model factors reducing modeled risk were: Established
device relationship, Established payment corridor, Established customer relationship. This explanation describes model evidence only and
does not constitute an institutional transaction decision.",
  "feature_contributions": [
    {
      "coefficient": -0.35,
      "feature": "ESTABLISHED_CORRIDOR"
    },
    {
      "coefficient": -0.2,
      "feature": "ESTABLISHED_COUNTERPARTY_RELATIONSHIP"
    },
    {
      "coefficient": -0.25,
```

```
      "feature": "ESTABLISHED_CUSTOMER_RELATIONSHIP"
    },
    {
      "coefficient": -0.45,
      "feature": "ESTABLISHED_DEVICE"
    },
    {
      "coefficient": 1.35,
      "feature": "HIGH_TRANSACTION_VELOCITY"
    },
    {
      "coefficient": -0.2,
      "feature": "METADATA_COMPLETE"
    }
  ],
  "indicators": [],
  "institution": "Bank A",
  "institution_retains_final_decision": true,
  "model_version": "TRUST-BASELINE-0.1.0",
  "policy_reason": "RISK_WITHIN_APPROVE_THRESHOLD",
  "policy_version": "1.0.0-DEMO",
  "reason_codes": [
    "TRUST-RSN-001",
    "TRUST-RSN-004",
    "TRUST-RSN-007",
    "TRUST-RSN-009",
    "TRUST-RSN-011",
    "TRUST-RSN-015"
  ],
  "reasons": [
    {
      "coefficient": 1.35,
      "contribution": 1.35,
      "direction": "RISK_INCREASING",
      "explanation": "Recent transaction activity is substantially above the configured normal range.",
      "feature": "HIGH_TRANSACTION_VELOCITY",
      "label": "High recent transaction velocity",
      "reason_code": "TRUST-RSN-001"
    },
    {
      "coefficient": -0.45,
      "contribution": -0.45,
      "direction": "RISK_REDUCING",
      "explanation": "The supplied context identifies the device as established.",
      "feature": "ESTABLISHED_DEVICE",
      "label": "Established device relationship",
      "reason_code": "TRUST-RSN-004"
    },
    {
      "coefficient": -0.35,
      "contribution": -0.35,
      "direction": "RISK_REDUCING",
      "explanation": "The transaction corridor has established observed history.",
      "feature": "ESTABLISHED_CORRIDOR",
      "label": "Established payment corridor",
      "reason_code": "TRUST-RSN-007"
    },
    {
      "coefficient": -0.25,
      "contribution": -0.25,
      "direction": "RISK_REDUCING",
      "explanation": "The customer relationship is established.",
      "feature": "ESTABLISHED_CUSTOMER_RELATIONSHIP",
      "label": "Established customer relationship",
      "reason_code": "TRUST-RSN-009"
    },
    {
      "coefficient": -0.2,
      "contribution": -0.2,
      "direction": "RISK_REDUCING",
      "explanation": "The counterparty relationship is established.",
      "feature": "ESTABLISHED_COUNTERPARTY_RELATIONSHIP",
      "label": "Established counterparty relationship",
      "reason_code": "TRUST-RSN-011"
    },
    {
      "coefficient": -0.2,
      "contribution": -0.2,
      "direction": "RISK_REDUCING",
      "explanation": "The transaction contains a high level of contextual metadata completeness.",
      "feature": "METADATA_COMPLETE",
      "label": "Complete metadata",
      "reason_code": "TRUST-RSN-015"
    }
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  ],
  "recommendation": "APPROVE",
  "risk_category": "LOW",
  "risk_increasing_factors": [],
  "risk_probability": 0.182426,
  "risk_reducing_factors": [],
  "scenario": "High Velocity",
  "sdk_version": "EOI-DEMO-1.0",
  "source_file": "bank-a-high_velocity.json",
  "transaction_authorization": false,
  "transaction_id": "BANKA-HIGH_VELOCITY-003",
  "trust_score": 81.76
}
```


8. Interpretation and limitations

- Controlled synthetic demonstrator assessment.
- Recommendation is advisory only.
- Final transaction authority remains with the participating institution.

Demonstrator boundary. Generated from synthetic/controlled demonstrator evidence. TRUST provides an advisory assessment and policy recommendation; the participating institution retains final transaction decision authority. This document is not production certification.