

# Inside MOSIP Identity Trusted ID For All

Shrikant Karwa | Head – LATAM & Caribbean Dissemination





## **MOSIP Identity**

### Platform for Trust

- Process
- Authority

## Platform for Service Delivery

- Inclusion
- Verification
- Uniqueness

# The need for Trusted ID



# MOSIP enables the digital transformation of nations



Pre-Requisite Inclusion, Access, Scale



Flexibility
Process, Issuance, Biometrics, Usage



Service Delivery Mode (Self, Assisted), Medium (Online/Offline)



ID as Infrastructure Simple, Multi-purpose, Enables Functional Registry





# Introducing MOSIP Identity

## Manage Foundational Identity Lifecycle

Issuance | Updates | Resident-Controlled Services

#### **Trusted Usage**

Identity Verification APIs | Ease of Integration with Functional Registry (Wallets, Mobile ID, Single Sign-On, etc.)

### **Key Modules**

Issuance & Verification | Lifecycle Management | Partner Management



# How to Leverage MOSIP Identity

#### Learn & Try

- Docs, GitHub, MOSIP Academy, MOSIP Community, Sandbox Experience
- Rapid Deployment Pilot, Experience Centre

#### **National Rollouts**

Two implementation approaches,

- Greenfield: From scratch, all new registrations
- Brownfield: Leverage existing ID system, data-migrations.

## Ecosystem & Marketplace

- Offering solutions and support
- System Integrator, Biometrics.





# An Inside Look at eSignet

Empowering Secure Online Authentication

Resham Chugani | Product Manager – Use Cases, MOSIP





# What is Verification?

The process or action of verifying the identity of an individual.

# Why is it needed?

This process ensures only those authorised, gain access to services/secure systems.



Online API

Online IDP Service ( @ Signet )

QR Code offline/online

Decentralised biometric authentication ( £ )

- Selfie
- 3rd Party Verification



# **Envisioning**a Digital Future

01 Interoperable

Modular and reusable infrastructure

**02 Inclusive**User-centric perspective

**03 Trusted**Standards-driven solutions





## eSignet

A simple yet powerful mechanism for end users to identify themselves, avail online services, and share profile information

01 Login with trusted ID

**02** Support for multiple authentication factors

**03** Frictionless inclusion of new authentication factors

**04** Easy integration with relying parties

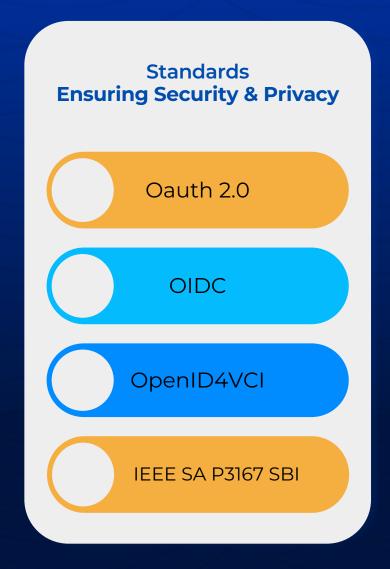
**05** Collection of user consent

**06** Avoids unwanted profiling

**07** Provides multiple assurance levels

**08** Integration with Digital Wallets

09 Single Sign On





# Demo Video





## What's Different?

# **Enhancing Verification Through Secure Standards**

**Standards-Based:** OpenID Connect flows based on the **OAuth 2.0** framework

Better Integration: Integrated with SBI (Secure Biometric Interface) to facilitate secure biometric collection for biometric-based user verification

Secure: Support for secure options in OpenID Connect, e.g. authorization code flow and better fraud prevention

#### **User Centricity**

One ID: Login to integrated government and private sector services using a single identity credential

Consent Support: User decides who can receive what credentials & information

Sensitive Data Protected – The login process takes place exclusively on eSignet platform – User's data is protected and not collected by/shared with relying parties, unless consented

#### **Multiple Modes of Authentication:**

Support for various methods for identity verification to accommodate individual preferences, better liveness check

#### **Go Digital Quickly**

Fast and secure digital verification across services

Verification with the **same level of assurance** as during registration (OTP, Biometric, Cryptographic key)

**Digital verification and e-KYC as a service**, enabling improved access to financial inclusion

Easy integration - Standard-based protocols, reducing time to market



# Road Ahead

## Road Ahead – Digital Identity Stack (eSignet)

#### **Long Term**

- Federation or brokering support
- WebAuthN support
- FAPI compliance
- CIBA support
- Wallet integration on phones
- eSign support

#### Plans for 2024

- SIOP, OpenID4VP wallet Handoff
- Multiple assurance levels
- Revocation support
- EDD and EC crypto enhancements
- Selective disclosure KYC with SDJWT
- Additional consent / reconsent





# What Next?

- •• Test it out or integrate your solutions with eSignet!
- **02** Watch out for related sessions on
  - Handles in MOSIP: 5th March | Abay 2 | 5:40 PM
  - Perspectives on Wallet Adoption: 6th March | Abay 1 | 2:45 PM
  - Country Use Case for Credentials: 6th March | Abay 1 | 3:10 PM
- **03** Meet us at the MOSIP booth, to know more & to see e-Signet in action.





# Inside INJI: Identity Wallet & Authenticator

Digital Empowerment through Robust Identity Verification

Harini Sampathkumar | Product Owner, MOSIP





# What is Inji?

A secure, trusted and inclusive mobile wallet & authenticator, that can be used to:

Securely Download, Store and Share Verifiable Credentials (VC)







# Inji as a Wallet

- Securely download VCs
- Store and manage VCs
- Seamless access
- Offline sharing over BLE
- Flexibility of presentation
- Decentralised ID verification
- Backup & restore
- Access digital services through eSignet integration
- Driven by standards

## Inji as an Authenticator

- Receive VCs
- Verify residents, through offline face verification, ensuring user presence
- Audit credentials



W3C: Verifiable Credentials Data model
W3C: JSON-LD | W3C: DID Web | W3C: Ed25519 Signature 2018
OpenID4VC





# **Credential Formats Supported**

01 JSON-LD

VC format using open vocabularies like schema.org



# Road Ahead

Road Ahead - Digital Wallet (INJI)

## **Long Term**

- User profiles
- Query and predicates
- Cloud Wallet
- USSD Channel
- Attestation Module

#### Plans for 2024

- Data backup
- Selective disclosure using SDJWT
- Revocation support
- Online sharing
- Update to OpenID4VCI drafts





# **Road Ahead**

Mobile Wallet & Beyond Inji – Mobile Wallet, Web, Certify, Verify

Digital Credentials Stack



# Digital Credentials Stack INJI + e-Signet

## **Long Term**

- Revocation support
- Trust Network

#### Plans for 2024

- Web download
- Issue without binding
- Pre-authorized code flow support
- Online sharing
- Online verification
- API + SDK
- Web interface





# Collaborate with MOSIP

#### 01 Community:

Test the Inji wallet & authenticator

#### 02 Countries:

Use Inji as is or Integrate your existing apps with Inji libraries

#### 03 Partner Ecosystem:

Integrate your components (SDK) with Inji

**SOLUTION DISCOVERY** 

Meet us at the MOSIP booth, to know more and to see INJI Wallet & Web in action!



MOSIP Homepage: www.mosip.io

MOSIP Source Code: github.com/mosip

MOSIP Documentation: docs.mosip.io

MOSIP Community: community.mosip.io

eSignet Source Code: github.com/mosip/esignet

**eSignet Documentation**: docs.esignet.io

eSignet Community: community.mosip.io/c/e-signet/15

