Pioneers in Secure Mobile Identity – Paving the Way for Citizens Worldwide
Joby Mathew, Sales Director, EMEA - Government ID Solutions
A Mobile Lifestyle is Becoming the Norm

An all-purpose tool
Life on-the-go
Already Proven in a Wide Variety of Commercial Applications

Turning smart devices into versatile credentials for:
  • Opening doors, data and cloud apps
  • Safer and more secure Internet of Things
Mobility is The Next-Generation ID Credential

1950s
Paper

1970s
Plastic

2000s
Chip

Today
Mobile

UK
NEW ZEALAND
AUSTRALIA

#MOBILE PASSPORT

MOBILE ID CARD
DRIVER LICENSE

AUSTRIA

ALABAMA
DELAWARE
ILLINOIS
IOWA
TEXAS
VIRGINIA

SECURITY
Principles for a New Era of Empowerment

1. Voluntary

- Participation is voluntary
- User controls sharing
- Requires affirmative action by user
Principles for a New Era of Empowerment

1. Voluntary
2. Interoperable

- Works with major smartphone handset manufactures and operating systems
Principles for a New Era of Empowerment

1. Voluntary
2. Interoperable
3. Secure

- Strong standards-based cryptography platform
- Citizen’s data can only be viewed by the intended authenticating smartphone
Principles for a New Era of Empowerment

1. Voluntary
2. Interoperable
3. Secure
4. Private

- No one else has access to personal data or can track identity
- Verify without handing over smartphone
Principles for a New Era of Empowerment

1. Voluntary
2. Interoperable
3. Secure
4. Private
5. Remote-Capable

- Even in remote areas, should be securely available for citizens
Principles for a New Era of Empowerment

1. Voluntary
2. Interoperable
3. Secure
4. Private
5. Remote-Capable
6. Always Available

- When a smartphone is inoperable (dead battery, etc.), it’s still possible to securely access a citizen's driver’s license
Mobility is Converging with Identity - The Benefits are BIG

Citizens get convenience, privacy and empowerment
• ‘Everything on a smartphone’
• Share only what need to share
• Application and updates remotely

Governments get increased security, safety and efficiency
• Issue and update IDs remotely
• Interact more safely and effectively with citizens
• Increase security of identification and authentication
• Smartphone functionality continues to expand
The Future: A Real Opportunity for **Africa**

**Leap over historical infrastructure and economic barriers**

- Cards to cutting-edge technology
- Smartphones are everywhere
- Smarter and more affordable, with more computing power than mainframes

**Reduced cost and pain of building infrastructure**
Nigeria – Leading the Way
Vehicle Registration Goes Mobile

Co-existence of physical and mobile identities
Single reader infrastructure

Facsimile. Product in development.

Population: 170M
# of cars: 50-60M

Partnering with

PROPRIETARY INFORMATION. Do not reproduce, distribute, or disclose. No unauthorized use.
Other Considerations

Decentralized Personalization “Farm”
- as efficient as centralized machine
- +flexibility
- +24/7 availability

Biometrics
- Bringing biometrics to contactless readers is possible
Facilitating the Transition:
Customize Degree of Mobility

Mobile-enabled ID
Mobile ID
Mobile ID Readers
Fully mobile platform

Powered by the award-winning Seos® technology
Smart Phone is the **Identity Tool of the Future**

...The credential

...The reader

...The trusted anchor for other services
Africa Can Take the Lead
Technology is A Tool

Proof of Concepts are Underway

Pilot program to define needs
• Understand timeline and budget
• Build on existing programs
It’s Not Just the Phone.
It’s the **Mobile Infrastructure.**

<table>
<thead>
<tr>
<th>Complexity</th>
<th>Smartcard Infrastructure</th>
<th>Mobile ID Infrastructure</th>
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<tbody>
<tr>
<td></td>
<td>Highly technical</td>
<td>Standard devices</td>
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<tr>
<td></td>
<td>MNO agreements</td>
<td>Security online</td>
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<td></td>
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<td>Interoperability via apps</td>
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<table>
<thead>
<tr>
<th>Cost</th>
<th>Dedicated = Expensive</th>
<th>Standard = Cost-effective</th>
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<table>
<thead>
<tr>
<th>Usage</th>
<th>Minimal transactions</th>
<th>No limits</th>
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<table>
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<tr>
<th>Outcome</th>
<th>Underutilization of technology</th>
<th>Expected significant cost savings</th>
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<tbody>
<tr>
<td></td>
<td>Underperformance</td>
<td>Performance maximized</td>
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<td></td>
<td>&lt;ROI</td>
<td>ROI improves</td>
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