MISAVA AGENCY FOR DIGITAL IDENTIFIERS

MISADI

The South African MPA
e-Identity
• Develop ICT policies and legislation
  • To accelerate sustainable growth for the South African economy
  • Positively impact on the well being of all our people
• Support South African National Development Plan
  • Develop coordinated and enabling ICT strategy and plan for all government departments and sectors
  • Improve e-literacy
• Provide clarity on ICT roles and functions of state
DTPS’ Vision for DOA

• DOA to support & enable South African policies
  • National Development Plan 2030
  • National Integrated ICT Whitepaper
  • e-Strategy goals
  • e-Government Strategic Objectives
DIGITAL OBJECT ARCHITECTURE

Digital Objects Architecture (DOA) aims to address the information management side of the Internet. As the networks multiplied and the volume of files increased it became important to address the need to better catalogue, store and manage the information beyond the management of the transportation of information on the Internet.
Why DOA

1. **Multilingual support** – Native support for Identifier names in most scripts in the world
2. **Enhanced security** - Secure communication with digital objects, building greater trust, confidence and security in the use of ICTs
3. **Unique identifiers** - Can remain unchanged (persistence) irrespective of where the object is located, who owns it, what type it is, what technology it is based on, etc.
4. **Enhanced search capabilities** - Metadata Registries that hold relevant information about digital objects; and where authors can specify search criteria
5. **Secure record update** - Easy and distributed management of information securely over the Internet
6. **Distributed technical management** - Globally distributed and managed by multiple independent parties working in collaboration
7. **Compatible and interoperable** - With most existing architectures within the Internet

**Global Presence**
- Over 1,000 services built on DOA, in 64 countries, on 6 continents;
- Today top-level DOA global root servers receive (on average) 100 million resolution requests per month

**Diverse Domains**
- Libraries; Intellectual Property; Distance Learning; Academic Research; Entertainment Industry; RFID
- Much more…
MISADA

MISAVA Agency for Digital Identifiers (MISADI)

- Establish national infrastructure
- Manage operations
- Facilitate establishment of registering agencies
- Develop and Facilitate DOA Marketing and Awareness strategies
Functions MISADI

- To establish and implement a system for the effective allocation and management of sub-prefixes derived from the MPA’s prefix (SA 27.)
- Collaborate with other stakeholders e.g. DONA Foundation & MPA’s on policies, standards, technology developments, and methodologies to ensure the effective governance and functioning of DOA
- Develop policies, regulations and standards to ensure compliance to applicable legislation and national policies
- Market MISADI as a service provider, and promote the use of Handle Identifiers to advance the knowledge economy and the 4th Industrial Revolution
- Identify emerging trends and contribute to the promotion of research and development.
- Promote innovation for the development of applications using Handle Identifiers
Registration Authorities (RA)

- An entity that will verify user(s) requests for a digital certificate and Certificate Authority to issue it. RAs are part of a Public Key Infrastructure which is a networked system that enables companies and users to exchange information and transactions in a safe and secure manner.

- Service providers shall apply to the Registration Authorities. The service providers are government, businesses, civil society and academia.
Functions RA

• The following are the primary roles of the RAs:
• Provide services to Registrants, which includes support;
• To develop policies, regulations and standards to ensure the effective functioning and management of registrants;
• Allocating DOA name derived prefixes to registrants (27.XXX);
• Registering DOA names and providing the necessary infrastructure to allow registrants to declare and maintain metadata and state data;
• Provide registrants best practices documentation e.g. setting up environment, infrastructure requirements, disaster recovery requirements, etc.
• Facilitate MOU’s between API owners and consumers
• Cabinet approved the establishment of the MISAVA Agency for Digital Identifiers (MISADI)
• Multi-Primary Administrator (MPA) established
• MPA infrastructure established / Operating in testing phase
• MISADI will be in production/live phase 2018/19 financial
• Development of Business processes progress
DOA applications platform development

- Acquire requisite infrastructure
- Establish the development platform and Develop DOA applications e.g.
  - Online Identity (e-identity) (DHA) National homogenous online identity system to authenticate citizen is prioritised
• Develop e-Identity app

• The application will be an online e-identity application that will be a true representation of one’s physical identity. The application will have to reference various repositories within DHA to validate the validity of the one’s physical identity in correspondence with the information obtained for verification purposes by providing access to the online databases houses and managed by home affairs.
As the primary source of verification within home affairs is biometrics, Hence one would assume in order to provide a citizen with an online e-id. Biometrics of the individual would have to be cross-reference with the biometric stored at the DHA repositories, following cross check such as id number etc., and other multi factor identification required and cross checked. Should the applications verification needs be satisfied a unique online identifiers can be created utilizing DOA technology. DOA technology provides a secure platform to transact with an online e-id. From an access perspective the application can leverage of the interoperability DOA technology provides to access any repository regardless of its nature.

To this end the e-id will be based on DHA credentials and a unique online number/identifier
Building a better life for all through an enabling and sustainable world class information and communication technologies environment.
Thank You!

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