



CENTRAL SUPPLIER
DATABASE
FOR GOVERNMENT



CSD Supplier Information Integration – 19 October 2015



national treasury
Department:
National Treasury
REPUBLIC OF SOUTH AFRICA

Housekeeping

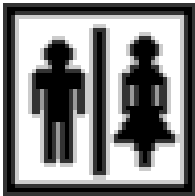
Housekeeping



Cell phones on silent



Designated smoking areas



Restrooms



Emergency exits



Questions



Parking lot

Agenda

Agenda

- Session objectives
- Background and status
- CSD scope
- Supplier information
- Consumer landscape
- Consumer access to supplier information
- Consumer on boarding process
- Consumer integration
- Impact on consumers
- Next steps
- Contact us
- Annexures

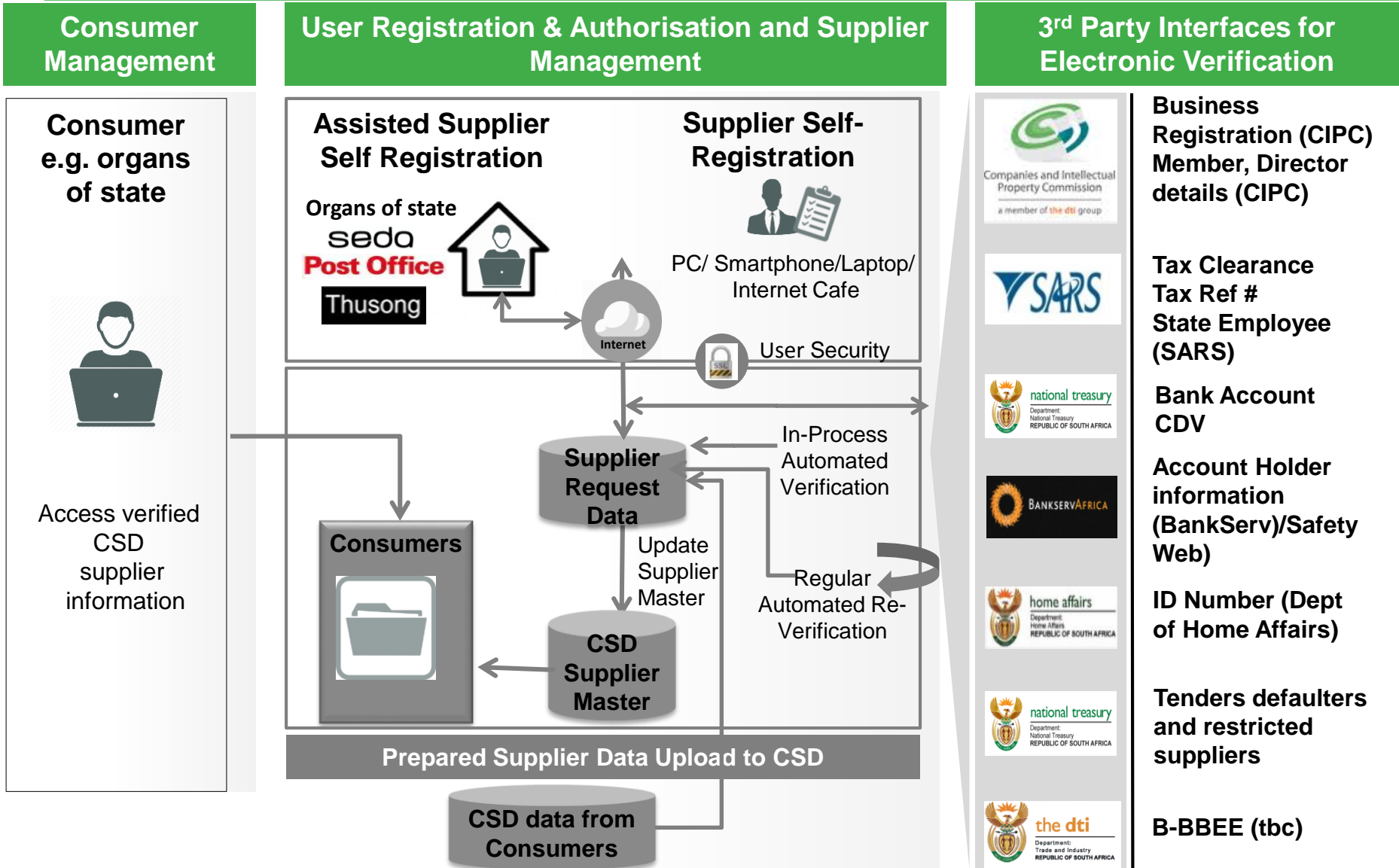
Session objectives

Objective of the session

- Which information is available on the CSD
- How information be made available

Background and status

High Level Solution Overview



Statistics

Province	Number of Suppliers	%
Eastern Cape	437	6,8
Free State	185	2,9
Gauteng	2644	41,3
KZN	639	9,9
Limpopo	1118	17,4
Mpumalanga	562	8,7
North West	291	4,5
Northern Cape	196	3,0
Western Cape	331	5,1

CSD scope

Current scope

- Central store of supplier information and compliance statuses
- Supplier self registration and maintenance
- Automated administrative verification and key supplier statuses
- Make supplier information available to organs of state
 - e.g. Reports, online etc.
- Users:
 - Suppliers that maintain supplier information
 - Consumers (organ of state users and systems) that access supplier information

Potential future scope

- Not procurement system
- In future CSD might include operational information:
 - Spend analysis
 - Rotation
 - Supplier performance management
 - Technical verification, e.g. accreditations

Supplier information

General supplier information

- Identification
- Contacts
- Addresses
- Bank accounts
- Tax
- Directors / Members
- Associations
- Commodities and locations
- Users
- BBBEE

Key supplier compliance statuses

- Supplier active/inactive
- Tax clearance certificate (SARS – 1 Sept 2015)
- Business registration status (CIPC – 1 Sept 2015)
- Government employee status (TBC – 1 Apr 2016)
- Bank account and holder verification (SafetyNet – 1 Apr 2016)
- Tender defaulter / Restricted supplier (1 Sept 2015)
- Individual identity verification
 - ID number and deceased (DHA – 1 Sept 2015)
 - Name, surname (DHA – 1 Apr 2016)
- BBBEE (Affidavit CIPC, Certificate TBC – 1 Apr 2016)

Commodity and location

CSD commodity structure

- UNSPSC standard used by CSD
- Commodities are the goods or services provided
- UNSPSC has four level hierarchy
 - Segment, Family, Class, Commodity
- Supplier selects the commodity they provide
- The structure is codified as eight characters
- Commodity 27112703
 - 27 = Tools & General Machinery
 - 11 = Hand tools
 - 27 = Power tools
 - 03 = Power drills
- <http://www.unspsc.org/search-code>
- http://ocpo.treasury.gov.za/Suppliers_Area/Pages/Central-Supplier-Database.aspx

CSD location structure

- Location is the geographical place at which the commodity is provided
- Supplier addresses and locations are independent
- Location has 5 level hierarchy:
 - Province
 - District
 - Municipality
 - City
 - Suburb
 - Ward

Consumer landscape

Consumer landscape

- Organs of state
 - National departments
 - Provincial departments
 - Local government
 - State owned entities
- Governed by various legislations, regulations etc.
- Various levels of process and ICT maturity
 - Technology, connectivity, performance, volumes

SCM process overview

- Demand management
 - Needs
 - Industry analysis
- Acquisition management
 - Sourcing
 - Contract management
 - Request to purchase
- Logistics management
 - Purchase order processing
 - Invoice processing
 - Payment
- Performance

Consumer data requirements

1. General supplier information
 - Identification
 - Commodity and location
 - Address
 - Contact
2. Compliance information
 - Key supplier compliance statuses
3. Transactional information
 - Supplier record
 - Bank account

Consumer access to supplier information

Consumer access principles

- CSD is source of up-to-date supplier compliance statuses
- CSD defines format of supplier information interchange
- Consumer to comply with CSD terms and conditions
 - On boarding
 - Data privacy
 - CSD source of compliance statuses
 - Etc.

Consumer access to information

1. Online via CSD application (user, e.g. SCM practitioner)
2. RESTfull services (system)
3. Bulk data (system)

1. Online functionality

- Search for suppliers based on criteria:
 - Commodity
 - Location
 - Address
 - BBBEE
 - Etc.
- List, report and export of multiple suppliers
 - Only key information
 - Identification, Commodity and Location, Address, Contact
- Report and export of single supplier registration details
 - Full record
 - Include key supplier compliance status information

2. RESTfull Services

- RESTfull services XML format
- Unique services:
 - Full supplier record
 - Key supplier statuses
 - Supplier subset
 - Refer to Annex B
 - Preferred contact
 - Preferred address
 - Preferred bank account

3. Bulk data

- Periodic basis in XML format
- Secure FTP
- Full set of limited supplier information for SCM
 - Identification
 - Commodity and location
 - Address
 - Contact
 - BBEE
- Daily changes
 - Additional suppliers
 - Supplier information changes
- NOTE:
 - Key compliance status information only available online, or via real time service interface

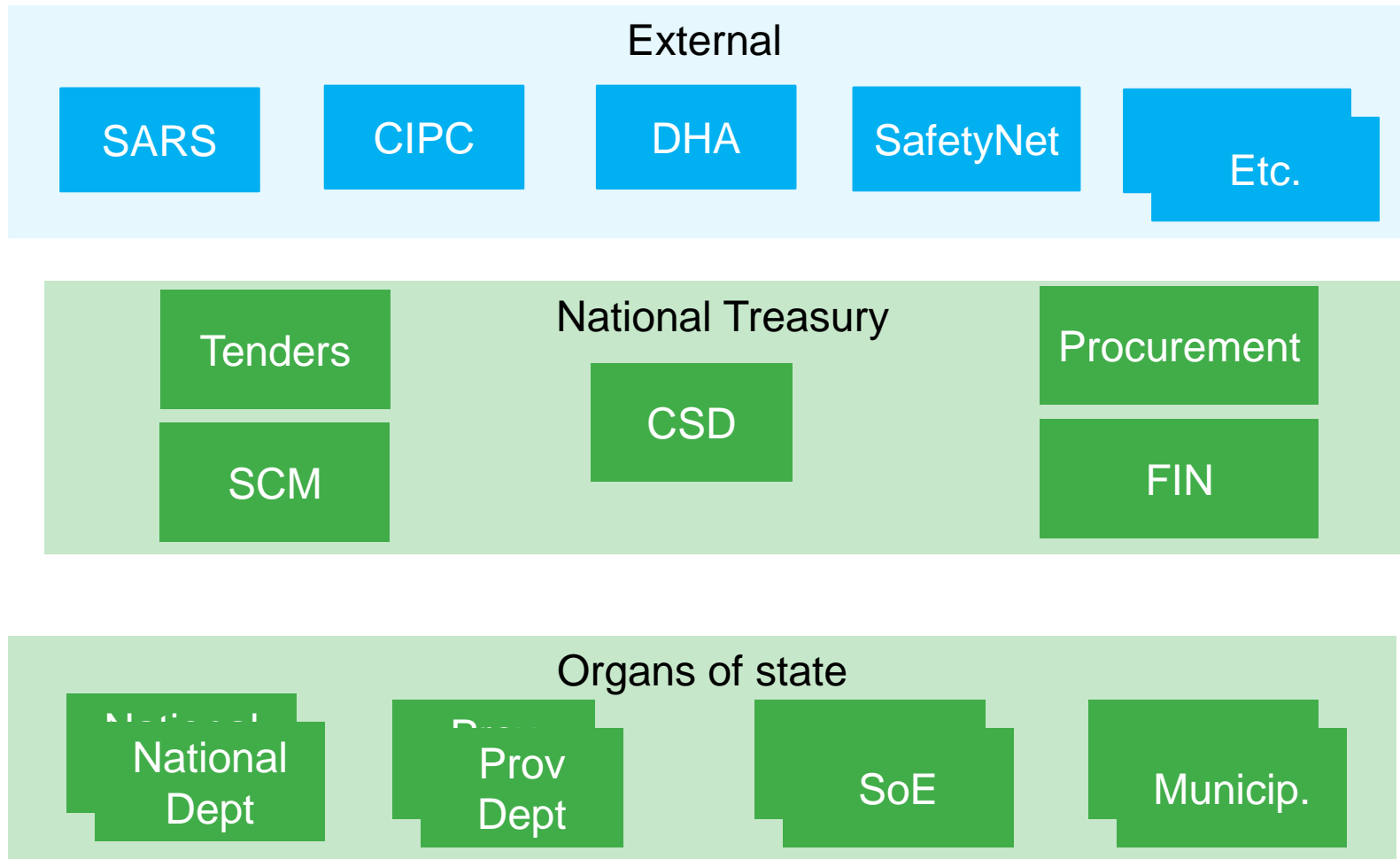
On boarding process

On boarding

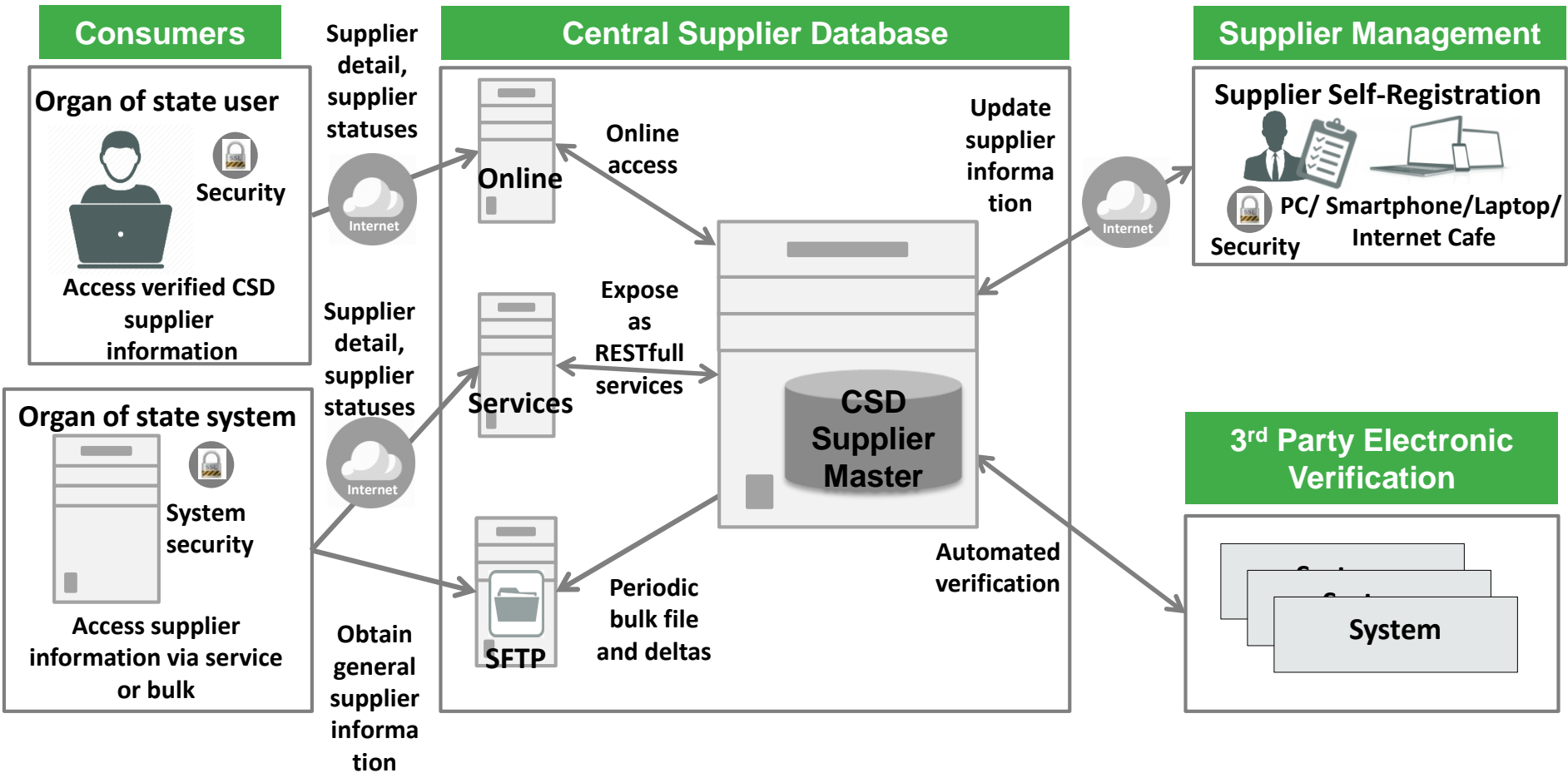
- To access CSD online:
 - Organ of state user applies for access to CSD supplier information
 - Accepts the terms and conditions
 - Primary organ of state user can create secondary users
- System access
 - Organ of state applies for system access to CSD supplier information
 - System account created per organ of state to access service and bulk data

Consumer integration

CSD integration landscape



Consumer integration solution



Impact on consumers

Impact on consumers

- Existing standard operating procedures (SOP's) and processes to be aligned
- Utilise CSD:
 - Online CSD search, report, export functionality
 - Online CSD supplier registration report
 - Interface to CSD services
 - Processing CSD bulk supplier data
- Understand UNSPSC commodity structure and utilisation through SCM processes

Next steps

Next steps

- On boarding process to be communicated (Jan 2016)
 - including terms and conditions
- Bulk XML structure
 - Draft 1 (Oct 2015)
 - Not all fields e.g. BBSEE, Commodities, Locations
 - Draft 2 (Nov 2015)
 - Final (Jan 2016)
 - Test published (Feb 2016)
 - Production published (Apr 2016)
- On boarding (Apr 2016)
- Online functionality available (Apr 2016)
- Supplier record RESTfull XML structure
 - Draft 1 (Nov 2015)
 - Final (Jan 2016)
- Supplier compliance status RESTfull XML structure
 - Draft 1 (Nov 2015)
 - Final (Jan 2016)
- Additional supplier RESTfull XML structure
 - Draft 1 (Nov 2015)
 - Final (Jan 2016)
- Test RESTfull service endpoints (Feb 2016)
- Production RESTfull service endpoints (Apr 2016)

Contact us

Contact us

- Csd.support@treasury.gov.za
- 012 406 9222

Annexures

Annex A: Security

CSD Security – Identity Assurance

- Consulted security experts
- Input from legal, POPI, accountant general guide
- Proofing:
 - Low risk
 - Social media site - low risk of impersonation, self-attestation via email
 - High risk
 - Onsite, in-person verification — accompanied by government-issued ID etc
 - Middle road
 - Third-party proofing services might be employed:
 - The data service checks information against known records

CSD approach

CSD Security – Authentication and account mgmt

- Email with links
- OTP via cell phone (Out of band)
- reCAPTCHA to prevent spamming/bots
- Login failure and suspension
- Bank account information require OTP and notification emails
- Email notification of supplier information changes
- Operational systems perform procurement and financial transactions
- Encrypted passwords
- Communication SSL encryption

CSD Security – Infrastructure

- Services:
 - Not discoverable
 - Secured with bearer token
- Interfaces
 - Combination of IP block, SSL and Authentication
- Infrastructure
 - Hardware level security implemented
 - Only application server traffic allowed
- Security scans
 - Scans performed by four different parties
 - All vulnerabilities and recommendations implemented

Annex B: Services

RESTfull Services (XML)

- Full supplier record
- Supplier compliance statuses
- Preferred contact
- Preferred address
- Preferred bank account
- Supplier subset:
 - Identification
 - Contacts
 - Addresses
 - Bank accounts
 - Tax
 - Directors / Members
 - Associations
 - Commodities and locations
 - BBEE

Annex C: Registered commodities

Commodities

Commodities	Quantity
Building construction and support, maintenance and repair	1409
Cleaning and janitorial services	1142
General building construction	911
Office supplies	791
Office machines, supplies, accessories	644
Computer equipment and accessories	425
Restaurants and catering	310
Office and desk accessories	309
Prepared and preserved foods	268
Software	245