



# Identity Management

SmartCities

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**digipolis®**



# Information Security at Digipolis

- SaRMA-model: **S**elf **A**ssessment, **R**isk-analysis, **M**aturity and improvement **A**ctions
- Based on the ISO 17799 standard – “Code voor Informatiebeveiliging”:
  - Security policy
  - Organization of information security
  - Inventory, management and classification of information assets
  - Security aspects linked to human resources
  - Physical and environmental security
  - Communications and operations management
  - **Access Control**
  - Information systems acquisition, development and maintenance
  - Business Continuity Management
  - Compliance
- Long term project: started in 2007, subprojects per topic
- Continuous improvement process

# Introduction

- Who?
  - For the customers of Digipolis Ghent and Antwerp and Digipolis itself
    - City of Antwerp
    - City of Ghent
    - OCMW Ghent
    - OCMW Antwerp
    - Local Police Antwerp
    - VZW's, Autonoom Gemeentebedrijven, a.o.
  - By SIEMENS IT Solutions & Services with the DirX-solution and by Digipolis



## Purpose of the IDM system

- Automatic creation of identities based on HR data
- Automatic creation of identities based on manual input
- Automatic creation of accounts in target systems
- Automatic distribution of standard access rights
- Automatic withdrawal of accounts and access rights when the person is leaving or when a change in assignment occurs
- Request, process, grant and withdraw access rights upon request.
- Self-Service: password reset, request for access rights



## Prerequisites & Dependencies

- Centralized management of the identities (logging & auditing)
- Target systems remain autonomous
- Accounts are being linked to groups in target systems
- Target systems control and decide which access rights are granted to the groups
- Domain separation Ghent/Antwerp (on user and management level)
- Identical platform for Ghent and Antwerp
- Redundant setup in 2 datacenters in Antwerp using virtualisation
- Possible expansion of the scope with additional target and source systems
- Take existing processes and procedures into consideration which are being used within the different administrations and which are related to HR.



# Integration Antwerp/Ghent

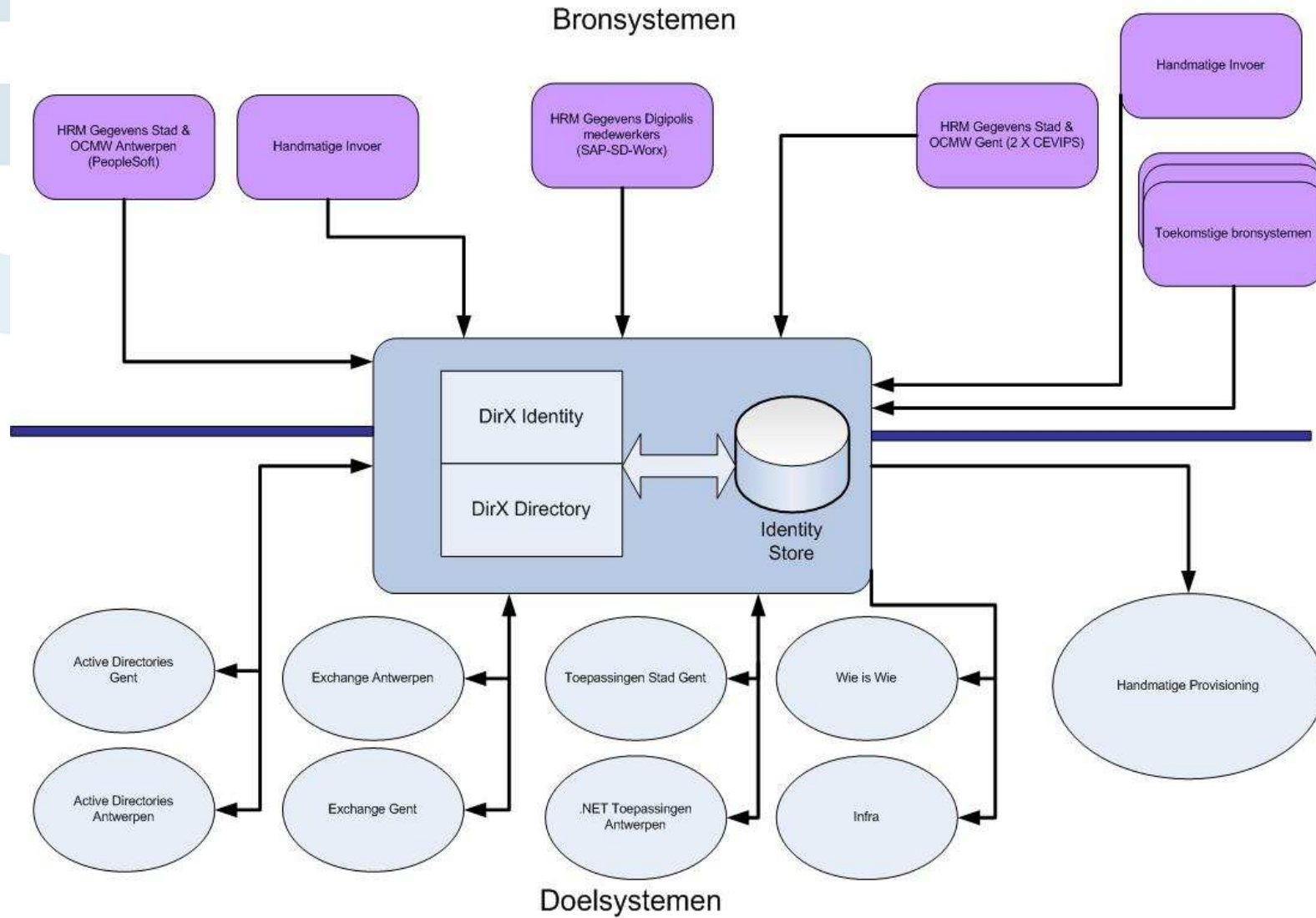
- **Antwerp:**

- Source systems:
  - Peoplesoft HR system
  - SDWORX –SAP HR
  - Manual input
- Target systems:
  - Active Directory
  - Exchange
  - DTB (.NET-applications)
  - Manual Provisioning

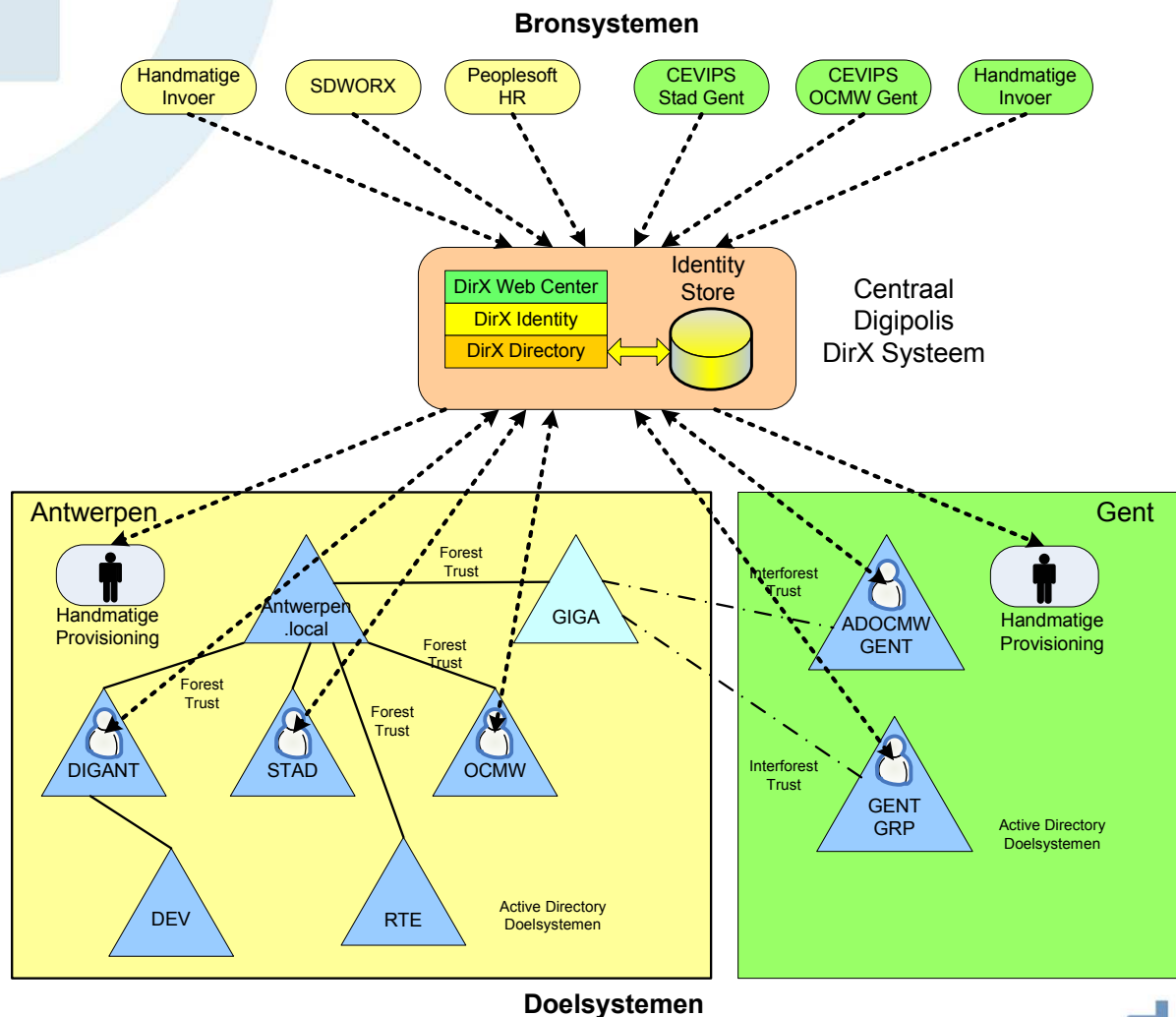
- **Ghent:**

- Source systems
  - CEVIPS city Ghent
  - CEVIPS OCMW Ghent
  - Manual input
- Target systems:
  - Active Directory
  - Exchange
  - “Wie is Wie”
  - “Stad Gent” applications
  - Manual provisioning/ INFRA

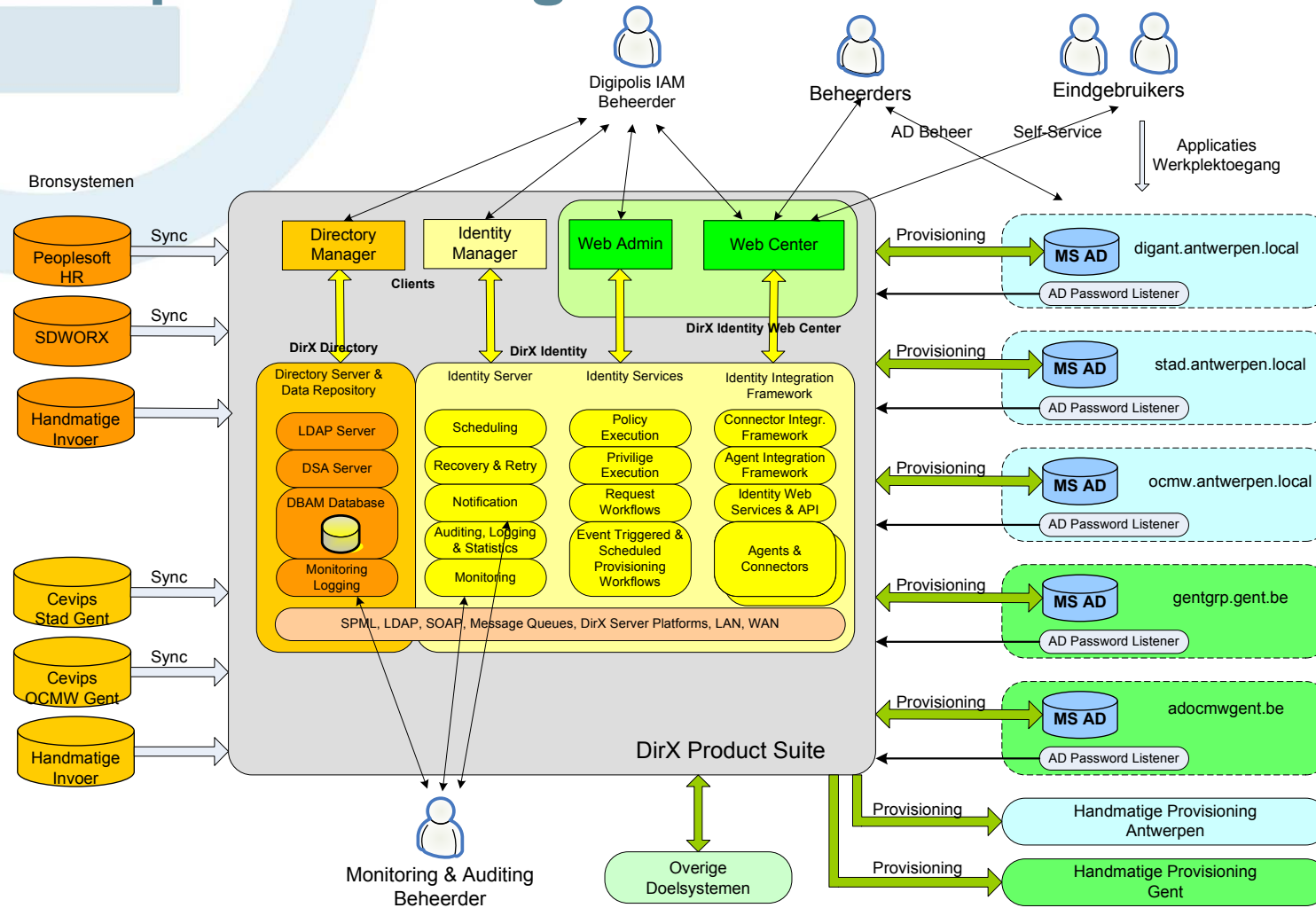
# Integration Antwerp/Ghent



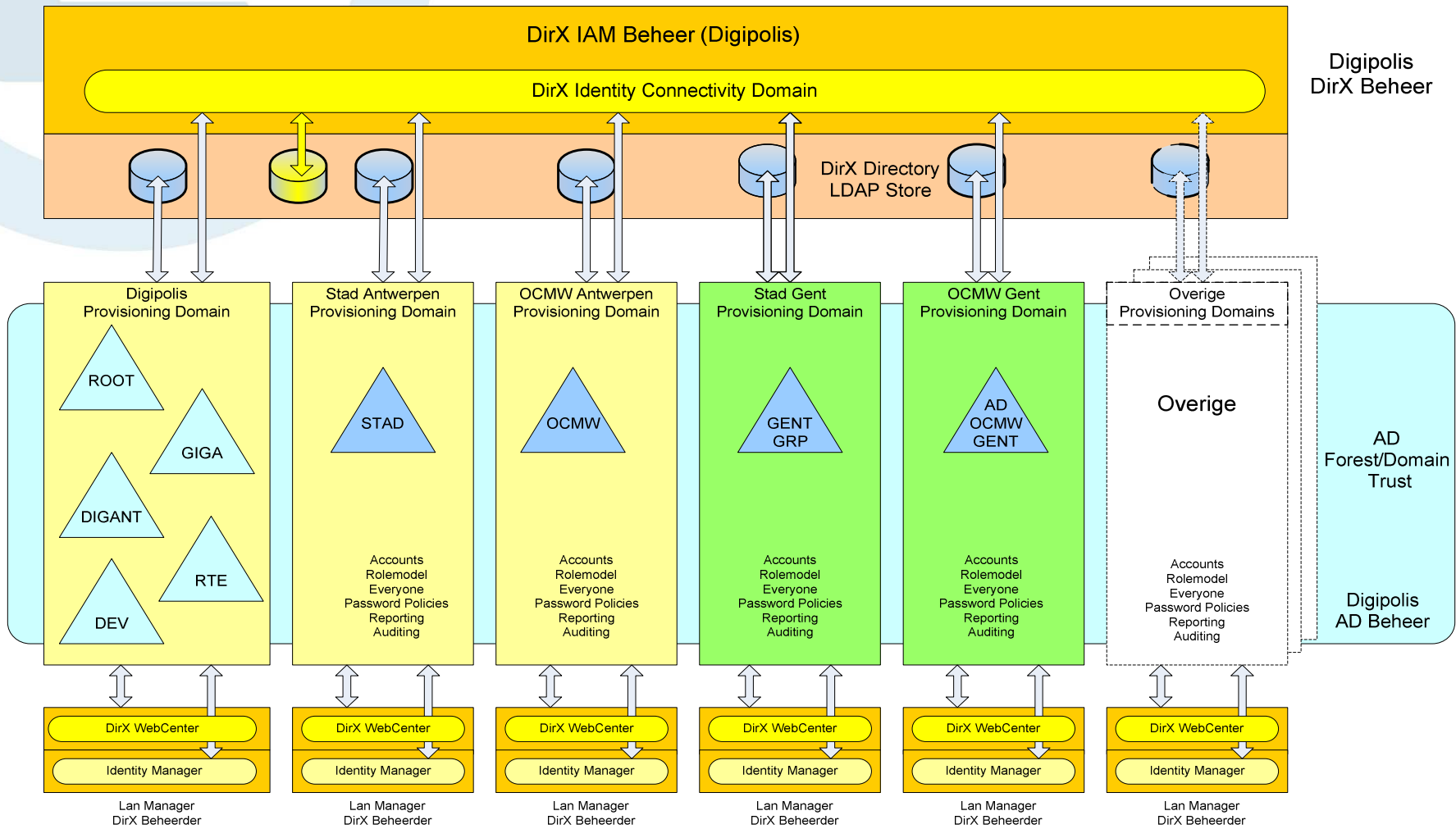
# Digipolis Platform topology - AD



# Components Diagram of the Solution



# Functional Domain Separation





## IDM – Evolution in 2010

- RBAC – Roll Based Access Control
- Integrate SAP as a target system
- Single Sign On (SSO)
- Additional application integrations (physical access control, time registration)
- Federation

