Monitoring IT-DES services using Oracle Enterprise Manager
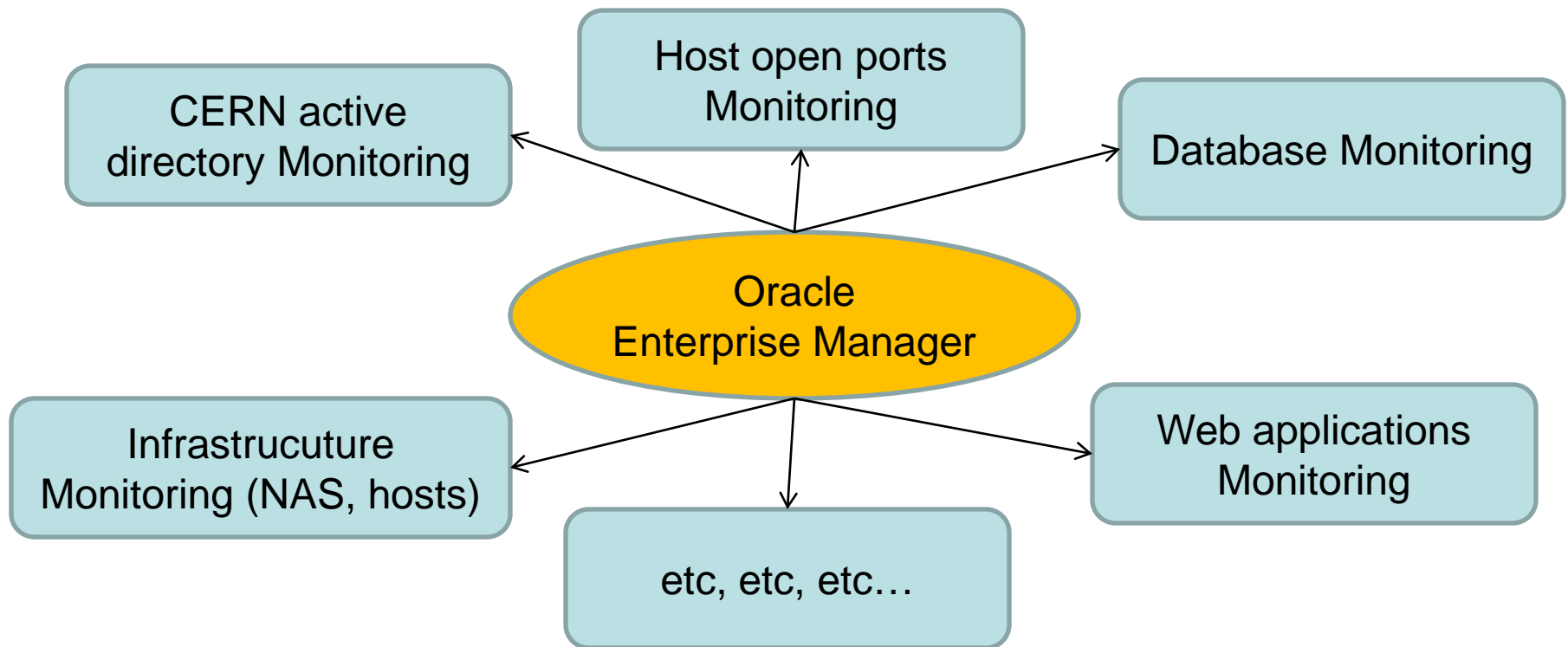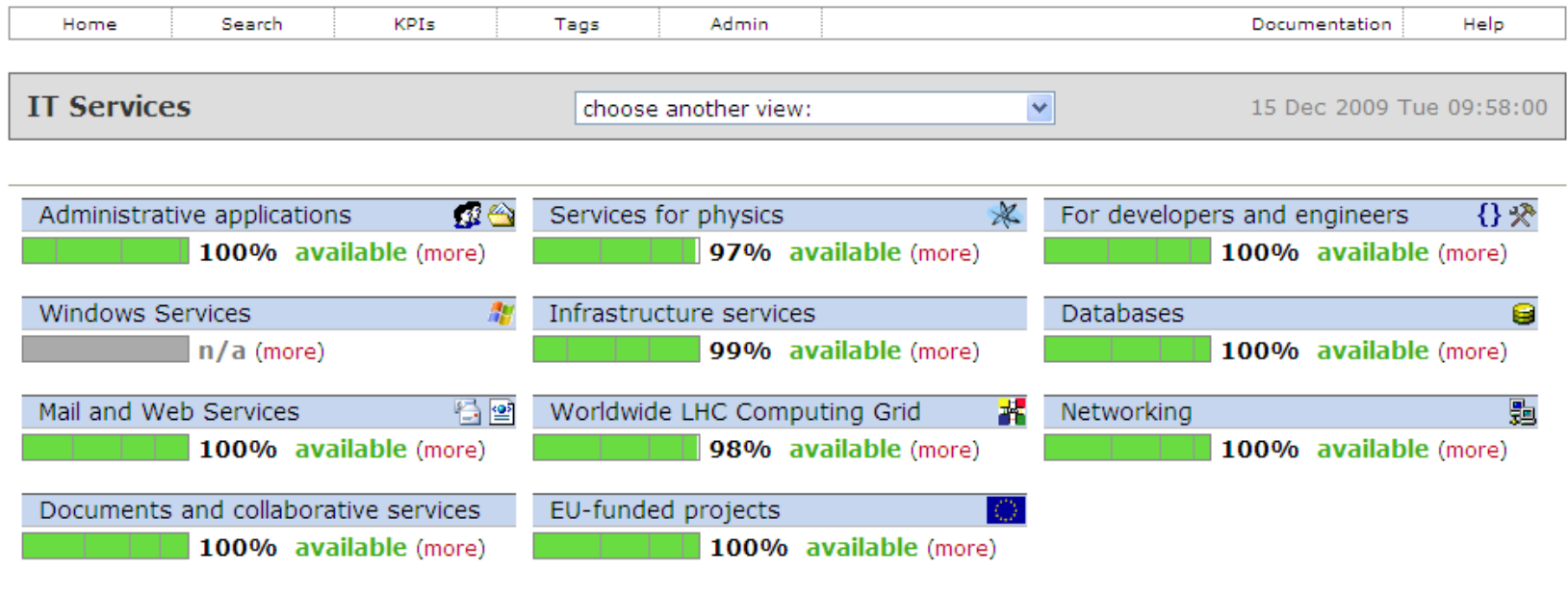
Openlab Minor Review Meeting

15 December 2009

Lucia Moreno Lopez,
Juan Manuel Guijarro

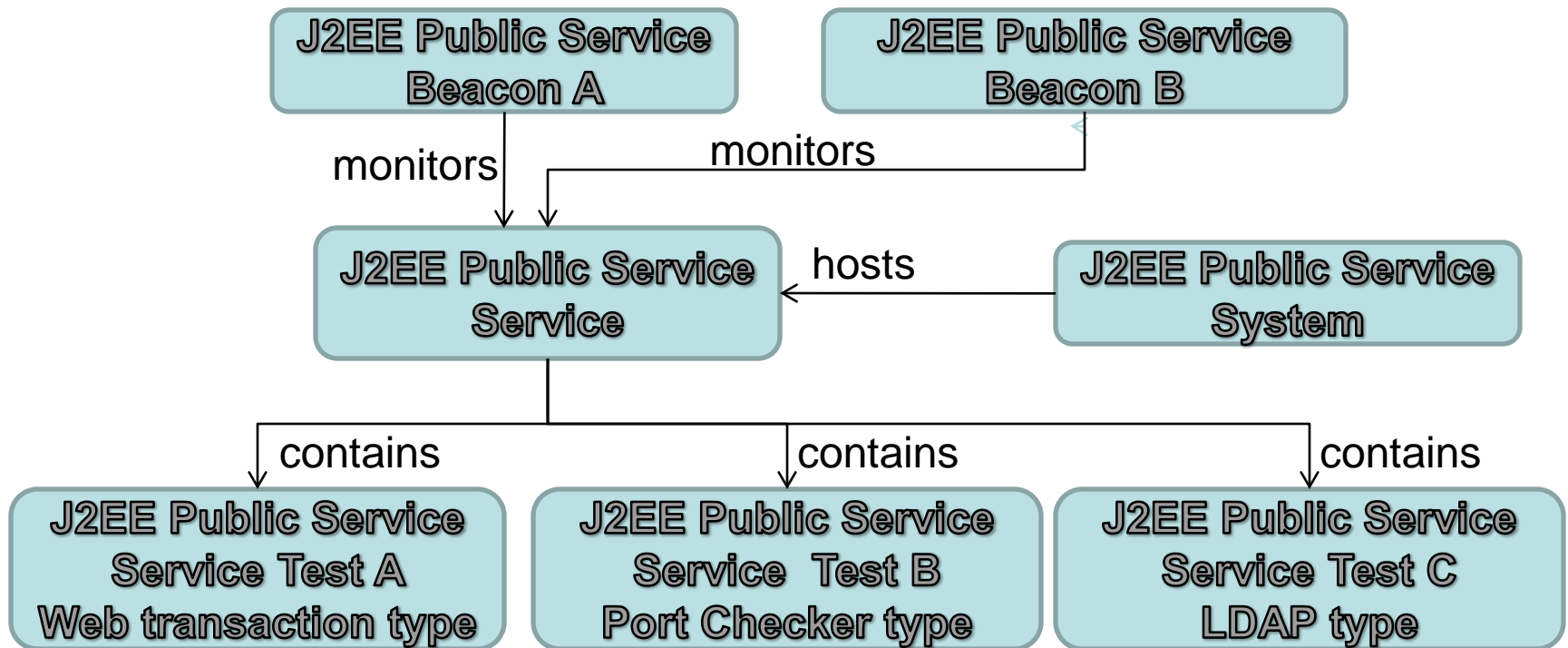- **Goal**: To centralize and standardize the monitoring of the group.

- **Services already migrated:**
  - J2EE Public Service
  - CERN Central SVN Service
  - TWiki - Web-based collaboration platform
  - EDMS - Engineering and Equipment Data Management Service
  - AIS - Administrative Information Services at *CERN*

OEM – Service tests and beacons

- Ongoing migration:
  - Feed from OEM to CERN SLS (Service Level Status)

Service Level Status overview

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IT Services   choose another view: ▾   15 Dec 2009 Tue 09:58:00

Administrative applications	100% available (more)
Services for physics	97% available (more)
For developers and engineers	100% available (more)
Windows Services	n/a (more)
Infrastructure services	99% available (more)
Databases	100% available (more)
Mail and Web Services	100% available (more)
Worldwide LHC Computing Grid	98% available (more)
Networking	100% available (more)
Documents and collaborative services	100% available (more)
EU-funded projects	100% available (more)

SLS by CERN IT/FIO   SLS.Support@cern.ch

- Example of the steps followed to create the services:

- OEM service tests – Used test types:
 - Web Transactions:
    - ✓ SSO: CERN authentication
    - ✓ Form authentication: AIS login
    - ✓ Realm: Tomcat Realm
  - JDBC SQL Timing
  - LDAP
  - Port Checker
  - Custom script
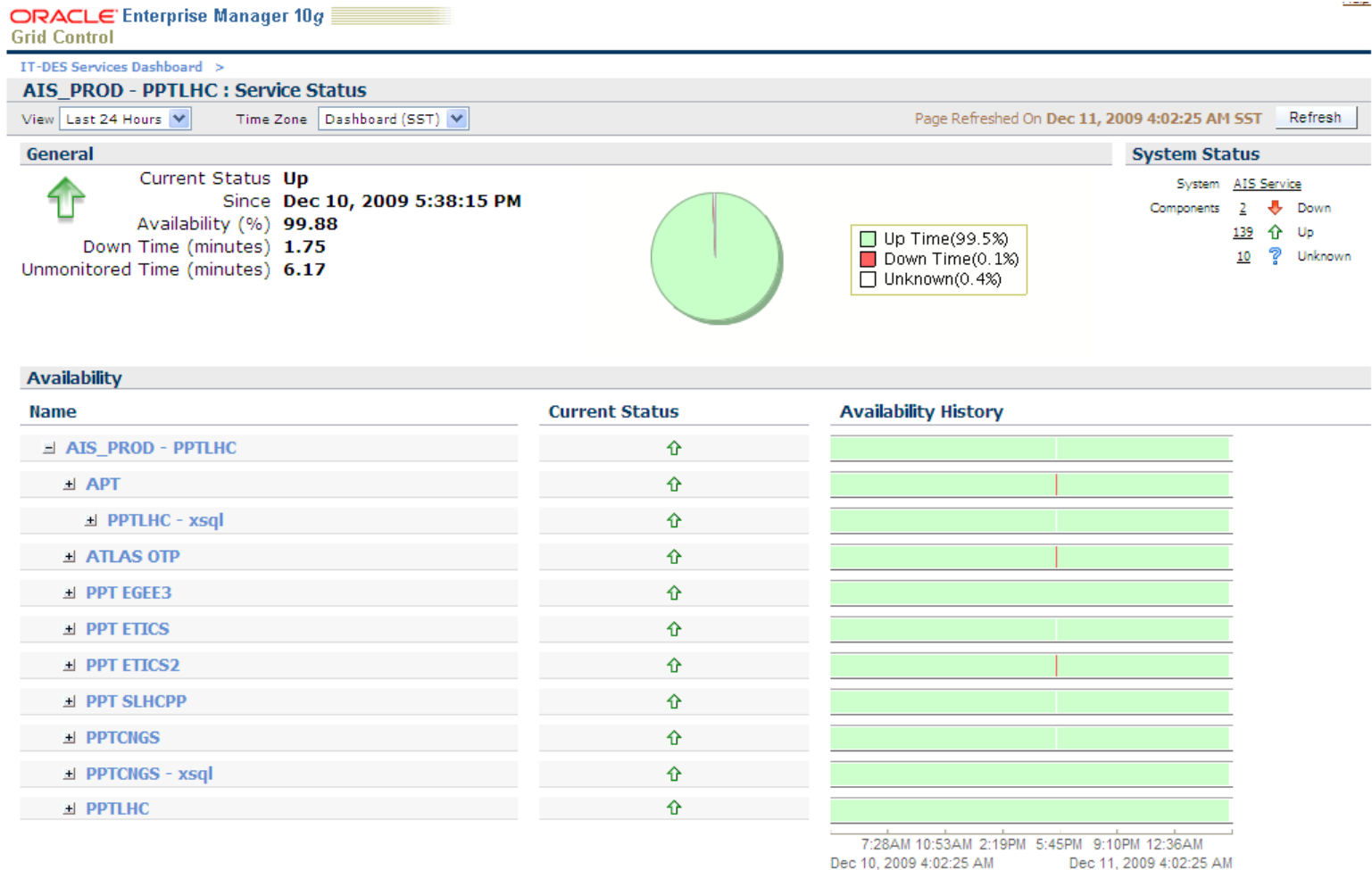
OEM – Service tests and beacons

- IT-DES Services Dashboard Report

OEM – Service tests and beacons

- IT-DES Services Dashboard – Service PPTLHC

OEM – Service tests and beacons

- IT-DES Services Notification Rules

OEM – Service tests and beacons

- **IT-DES Services Notification Rules**

- High availability monitoring by using various beacons to monitor each service

- Better understanding of the infrastructure by using the Service-System concept

- Easy creation of Web transactions thanks to the Replay/Record Web Transaction features

- Single point to monitor the database infrastructure and services.