DESTINATION EARTH CORE SERVICE PLATFORM

Destination Earth

Funded by
the European Union

Implemented by ECMWF · esa · EUMETSAT

ONBOARDING
THE SERVICE PLATFORM

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INTEGRATION APPROACH

FROM JUNE 2024

ONBOARDING

Dedicated to anyone who wants to become a DESP Service Provider

SERVICE FEDERATION

Dedicated to existing third-party Services / Ecosystems which want to acquire DESP audience

IDP FEDERATION

Dedicated to existing user communities to give them access to DESP Platform using their credentials

WE FOCUS ON ONBOARDING

DESP SERVICE PROVIDER BENEFITS

INCREASE VISIBILITY, CREDIBILITY AND TRUST

- Availability of the Service to a wider and targeted audience
- Business environment made of sector trusted actors and potential partners
- Official communication and sponsorship pack

EASY SERVICE PUBLICATION

- Access to: IAM, Service Registry, Accounting, Monitoring and Dashboards
- Access to several Data Sources Services

EASY SERVICE SCALABILITY

- Granted access to state-of-the-art Cloud Provider infrastructure
- User Analytics/Insights and Monitoring dashboards
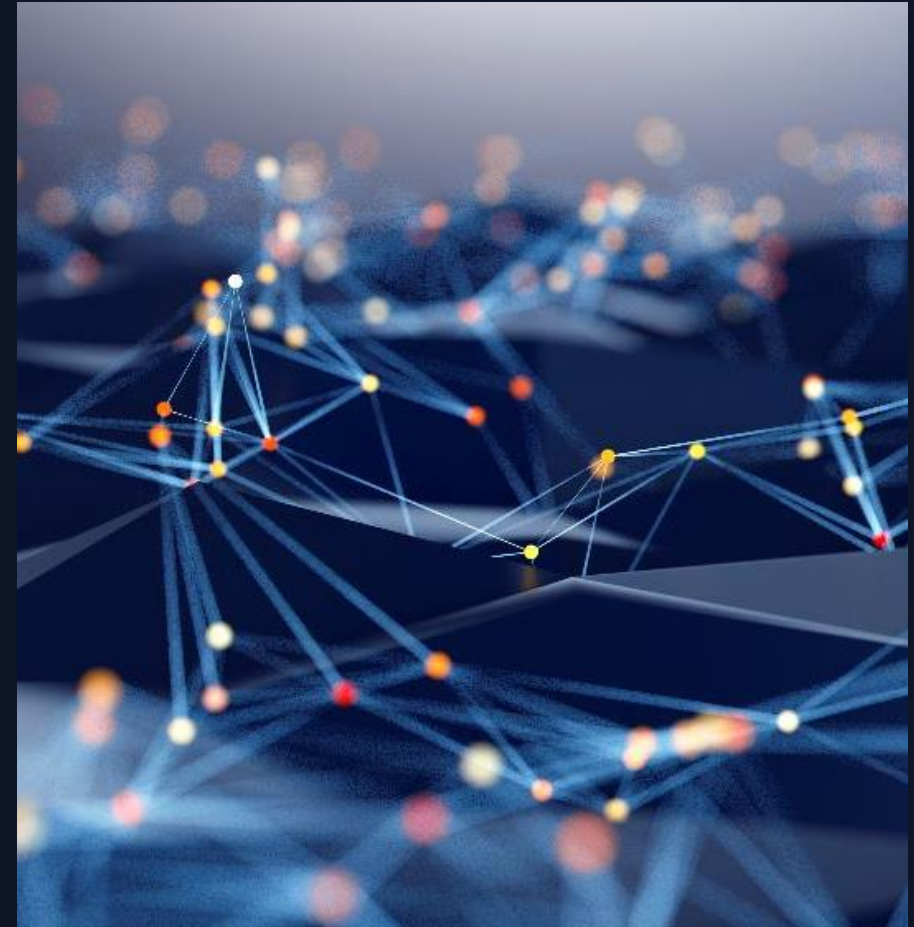
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DESP MARKETPLACE

The following features are supported by the DESP Platform and defined by the Service:

USAGE PROFILES

- Free and by default available for Users (mandatory for the Service)
- Service Usage Profiles, available for user purchase

DIGITAL GOODS

- Subscriptions, to enhanced quotas or features
- Premium Datasets

ONBOARDING
OVERVIEW

SERVICE ONBOARDING REQUEST

SERVICE EVALUATION

SERVICE INTEGRATION

ONBOARDING OVERVIEW
SERVICE ONBOARDING REQUEST

SERVICE ONBOARDING REQUEST

SERVICE EVALUATION

SERVICE INTEGRATION

COMPLIANCE ACKNOWLEDGEMENT

- Policies and CoC Acceptance (to be agreed with 3Es)
- Technical Baseline and Security Requirements Acceptance

MATERIAL AND RESOURCES

- Service and Price Information
- Promotion Package

COMMUNICATION SETUP

- Administrative contact point
- Technical contact point

ONBOARDING OVERVIEW
SERVICE EVALUATION

SERVICE ONBOARDING REQUEST

SERVICE EVALUATION

SERVICE INTEGRATION

EVALUATION ASPECTS

- Integration Costs
- Capability
- Usability
- Application
- Long-term Sustainability
- Benefits brought by the Service

COST MODEL

- Services Discovery
- Marketplace

ONBOARDING OVERVIEW
SERVICE INTEGRATION

SERVICE ONBOARDING REQUEST → **SERVICE EVALUATION** → **SERVICE INTEGRATION**

Mandatory Integrations:

- IAM
  - User Entry point
  - Identity Manager for the DESP ecosystem
  - Authentication and Authorization Layer
  - Data Access Policies and Quotas

- SERVICE REGISTRY
  - Services Discovery
  - Marketplace

- DASHBOARD SERVICES
  - Service Performance statistics

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IAM INTEGRATION

THE TECHNOLOGY

- Extended version of Keycloak

- Standard Authorization Protocols:
  OpenId Connect and SAML

THE GOAL: IAM-SERVICE COMMUNICATION

- Obtain Keycloak Client Credentials
  (Client ID and Client Secret)

- Configured Client Credentials at Service side
  (Client Adapter)

- Client Configuration by the Service Provider
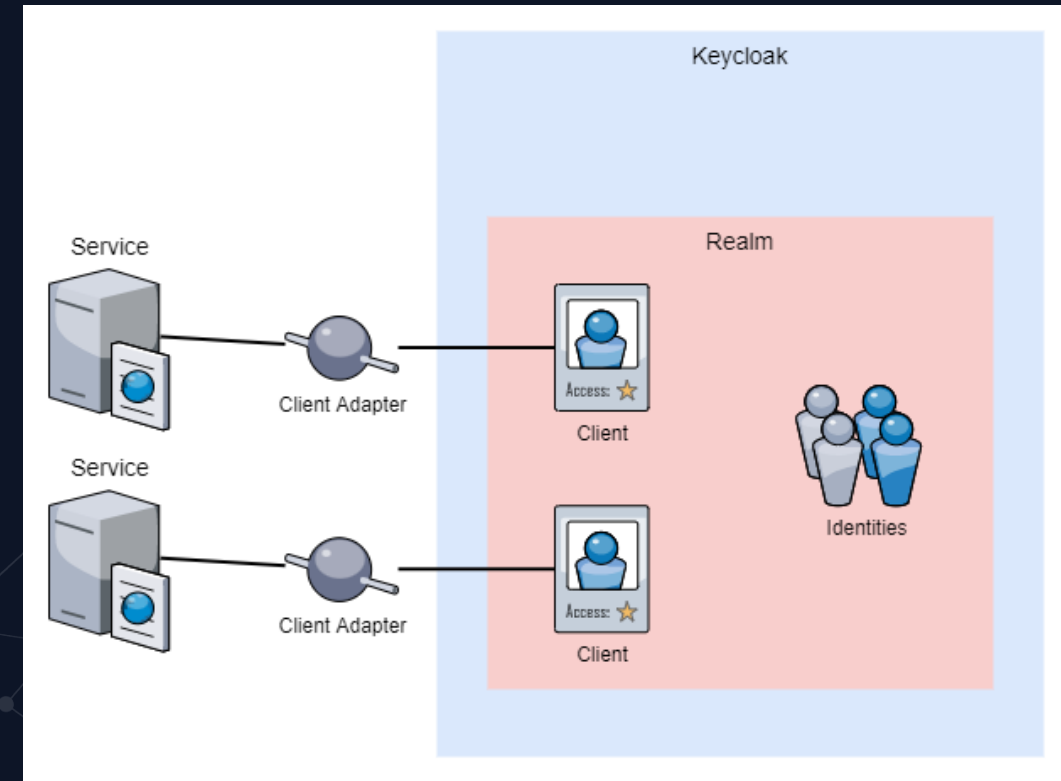
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IAM – SERVICE PROVIDER CLIENT MANAGEMENT
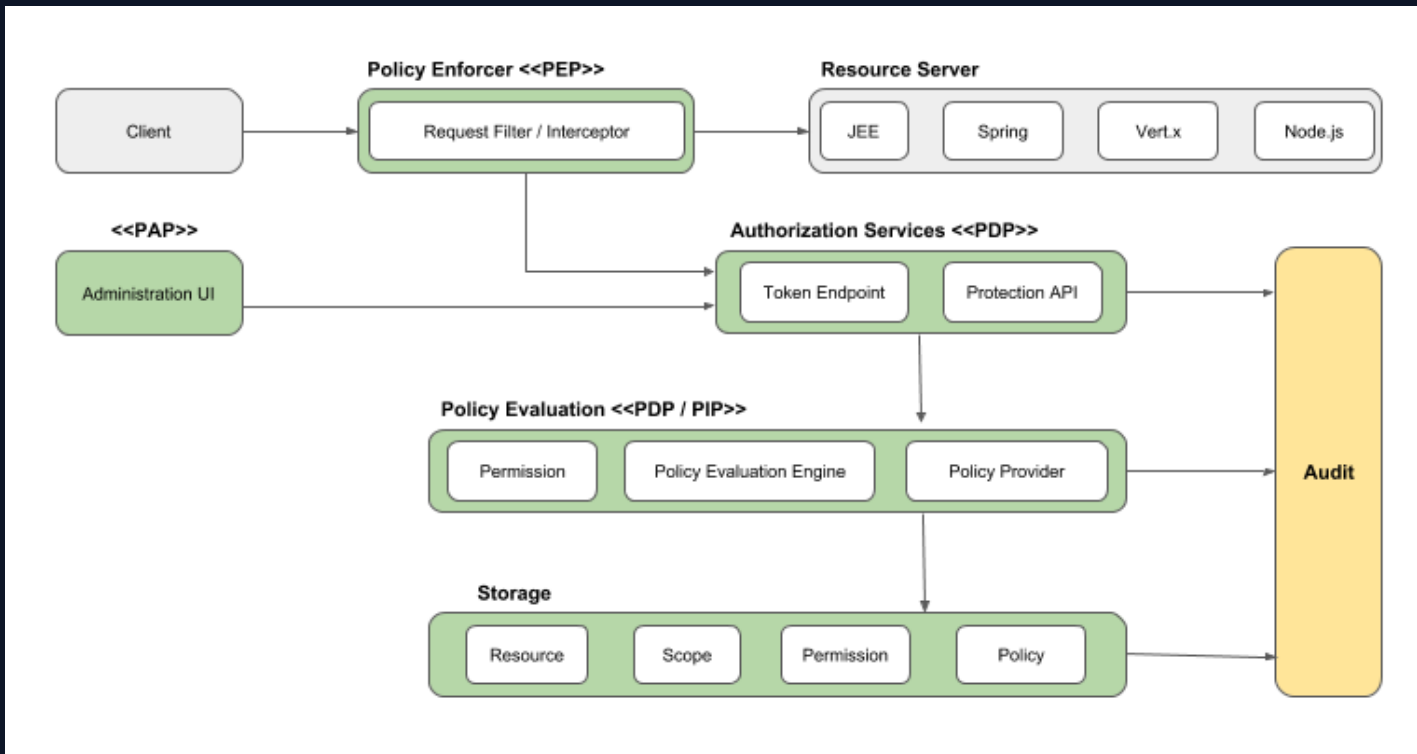
*image from official Keycloak website

- Protected Resources configuration

- Client-Level Roles

- Client-Level Authorization Policies

- User-Client Roles/Policies Mapping

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SERVICE REGISTRY INTEGRATION

THE GOAL: FULLY INTEGRATED SERVICE

- Send the Onboarding Request form

- Service listed and discoverable by DESP Users

- Published Service Description

- Free and Premium Service endpoints described and published

- Published Service Marketplace
  (Subscriptions, Support Packs, Datasets)

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SERVICE REGISTRY INTEGRATION - REQUIREMENTS

- Completed Service Information template

- Completed Price List:

    o Free/Service Usage Profiles

    o Digital Goods

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DASHBOARD SERVICES

- The Executive Dashboard Service promotes the DestinE ecosystem with selected statistics and insights on:

  o Core Service platform services

  o Users' uptake metrics

  o Framework dimensions in terms of data and available resources

- Dashboard information is open to the public, but some selected statistics require authorisation

  o Main stakeholders are DestinE Trusted Parties, decision makers, service providers willing to onboard new services

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