Open and easy to integrate

DOME will be provided as open source and will be based on open standards. The main distinctive features are:

- Description of Cloud and Edge Services: The DOME marketplace adheres to Gaia-X specifications for describing cloud and edge services and their offerings. Gaia-X is an initiative aimed at establishing a federated and secure data infrastructure for Europe. By aligning with Gaia-X standards, the DOME marketplace ensures interoperability and compatibility with other Gaia-X services and platforms.
- Marketplace Functions: The marketplace functions within DOME are based on TM Forum standards. TM Forum is a global industry association that develops standards for the digital business ecosystem. By leveraging TM Forum standards, the DOME marketplace is designed to be seamlessly integrated with Gaia-X Federated Services, following the technical convergence model proposed by the Data Space Business Alliance.
- Identity and Access Management: The DOME marketplace employs Identity and Access Management (IAM) based on W3C (World Wide Web Consortium) DID (Decentralised Identifier) and VC (Verifiable Credential) standards. This IAM system is compliant with the architecture of the EU Digital ID wallet and aligns with Gaia-X Trust Anchor Services. This ensures secure and trusted access to the marketplace and its services.
- Logs and Persistence Layers: Logs generated throughout the entire lifecycle of cloud application service offerings within the DOME marketplace are stored on distributed and trustworthy persistence layers. This ensures data integrity and transparency. Furthermore, aligning the satellites marketplaces with DOME allows for consistent logging practices across the ecosystem.
- Data Services and Publication Platforms: Data services within the DOME marketplace are made visible through existing Data Publication Platforms that support Data Catalogue vocabularies compliant with W3C DCAT (Data Catalog Vocabulary) and DCAT-AP (Data Catalog Application Profile). This enables effective data discovery and integration with other compatible platforms and services.

In summary, the DOME marketplace embraces open-source principles and is built on FIWARE BAE. It follows open standards such as Gaia-X specifications, TM Forum standards, W3C DID/VC for IAM, and W3C DCAT/DCAT-AP for data publication. These choices ensure compatibility, interoperability, and security within the marketplace ecosystem and enable seamless integration with other European initiatives and services.

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