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# **TM Forum Open APIs Conformance Certification**

***Company Name:***

***6d Technologies***

***TM Forum Open API Name:***

***TMF720 – Digital Identity Management***

***TM Forum Open API Release Version:***

***4.0.0***

***Date: 15/07/2025***

## 1. What Product or Solution does your API support?

6D's Identity and Access Management (IDAM) in Business Support Systems (BSS) is crucial for Digital Service Providers (DSPs) and any organization for security and relying on BSS for its core operations. BSS encompasses various critical functions like customer management, billing, order management, product Catalog management, and revenue management. IDAM is a framework of policies, processes, and technologies that enables organizations to manage digital identities and control access to their resources. Its core principles are:

- **Authentication:** Verifying the identity of a user (or non-human entity like an application or device) attempting to access a system. This can involve passwords, multi-factor authentication (MFA), biometrics, or other methods.
- **Authorization:** Determining what resources an authenticated user is permitted to access and what actions they can perform. This is often based on roles (Role Based Access Control - RBAC) or attributes (Attribute Based Access Control - ABAC).
- **Auditing/Accounting:** Tracking and monitoring user activity to maintain a clear audit trail, detect anomalies, ensure compliance, and investigate security incidents.

The TMFC020 is an ODA component that provides standardized capabilities for managing digital identities across stakeholders such as customers, employees, partners and authenticating resources. It exposes TMF720 API to allow to Manage user accounts, roles, and permissions, Define and assign user roles, Control access to assets, Support authentication and authorization.

## Value Proposition of 6d's IDAM:

- Robust Multi-Factor Authentication (MFA) and fine-grained authorization protect sensitive data and prevent unauthorized access, with added features like fraudulent login detection and Privileged Access Management (PAM)
- Simplifies user onboarding/off-boarding and automates access provisioning.
- Offers Single Sign-On (SSO) across multiple BSS applications for seamless access.
- IDAM also supports industry-standard protocols like OAuth2, OpenID Connect, and SAML and integrates with TM Forum Open APIs to ensure effective communication and interoperability with various operational systems and channels.
- Domain Driven Design adaptation for Microservices Development
- CNF based Modular and Scalable solution
- Private/Public cloud agnostic deployment support
- Distributed Architecture support to meet the demands of 5G and IoT Solutions
- Compliance with the standards (IETF, ISO/IEC, W3C, NIST & TMForum) based interworking
- Configurability over Customization
- Inbuilt Intelligence/AI capabilities for early detection of operational inefficiencies and security vulnerabilities

## 2. Overview of Certified API

It is designed to standardize the management of user accounts, roles, and permissions within telecommunications and other digital service provider systems.

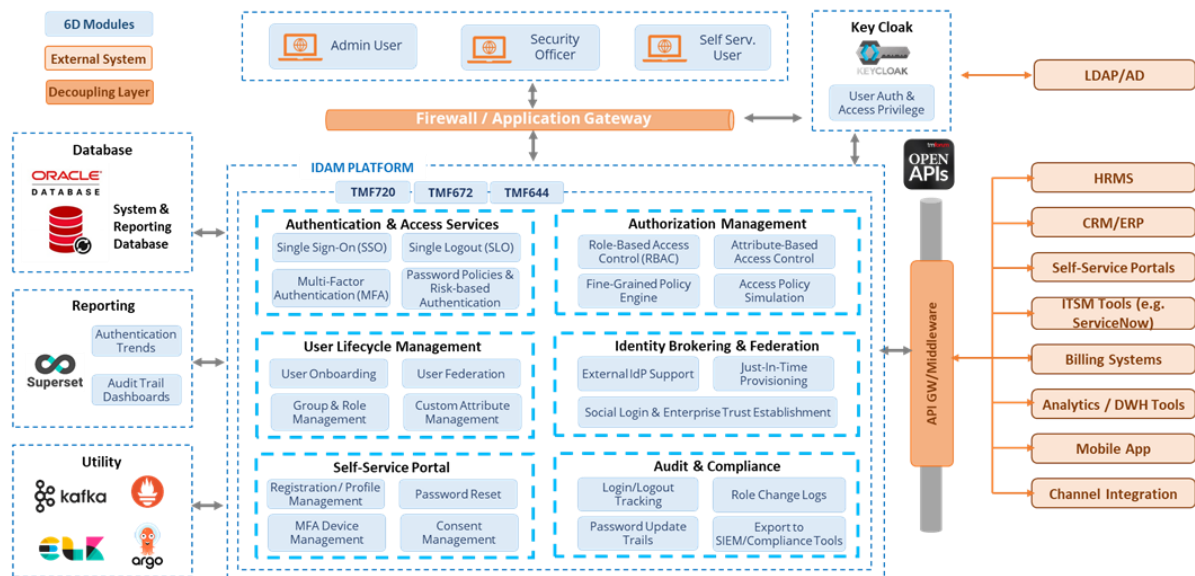
The Digital Identity Management API supports the following:

- Management of Digital Identities
- Credential Management
- Authentication Method Management
- Contact Mediums for Recovery
- Party Role Context

Sample Use cases supported by IDAM through TMF 720 Digital Identity Management API:

- Centralized Digital Identity Creation and Management
  - Onboarding New Customers/Users
  - Resource Identity Management
  - Party Role Identification
- Credential and Authentication Method Management
  - Diverse Authentication Support
  - Credential Recovery and Reset
  - Multi-Factor Authentication (MFA) Setup

### 3. Architectural View



The above diagram gives a functional view of Identity Access and User Management that exposes Digital Identity Management API (TMF720) to external services.

## 4. Test Results

This API has been tested as part of end-to-end journeys/Business Processes as well as at API level in terms of Authentication & Authorization, Functionalities & Operations that are supported through this API.

Click here to view the test results: [6D-TMF720-HTMLReport.html](#)