



API lifecycle & governance toolkit

Telefónica has a tool made available to developer teams for the certification of T-Open APIs (Telefónica adaptation of TM Forum Open APIs).

Tool capabilities:

- Configuration of (deployment) environment: to register the endpoint where developer hosts the microservices
- Configuration of environment variables
- Test campaign automation: automation of tests cases detailed in the API Test Plan
- Support for Q&A process
- Reporting

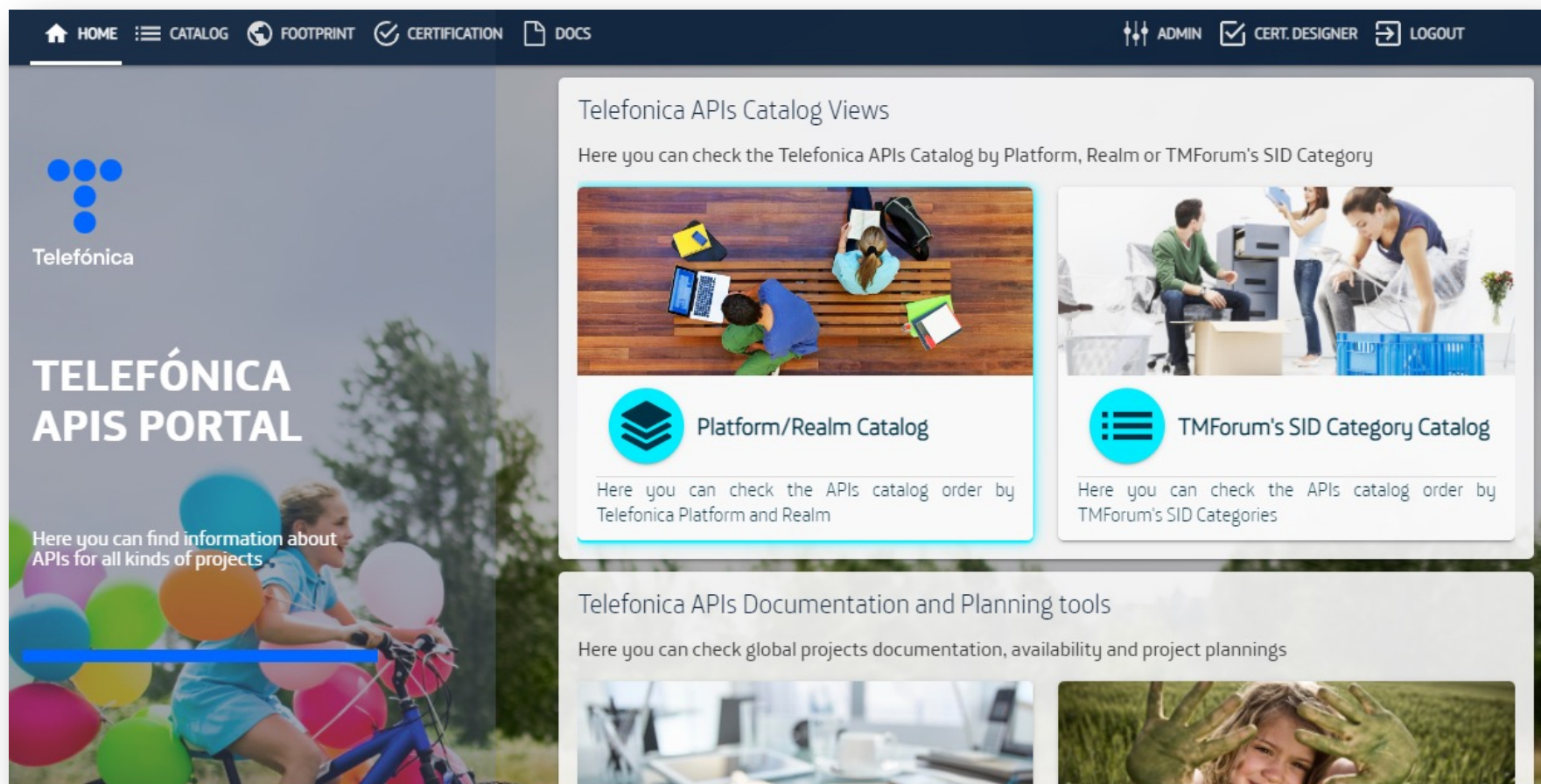
Steps:

1. Select the tests to be run
2. Fill in the variable values
3. Launch certification and check the results
4. Certification report



Catalog & Documentation centralization Portal

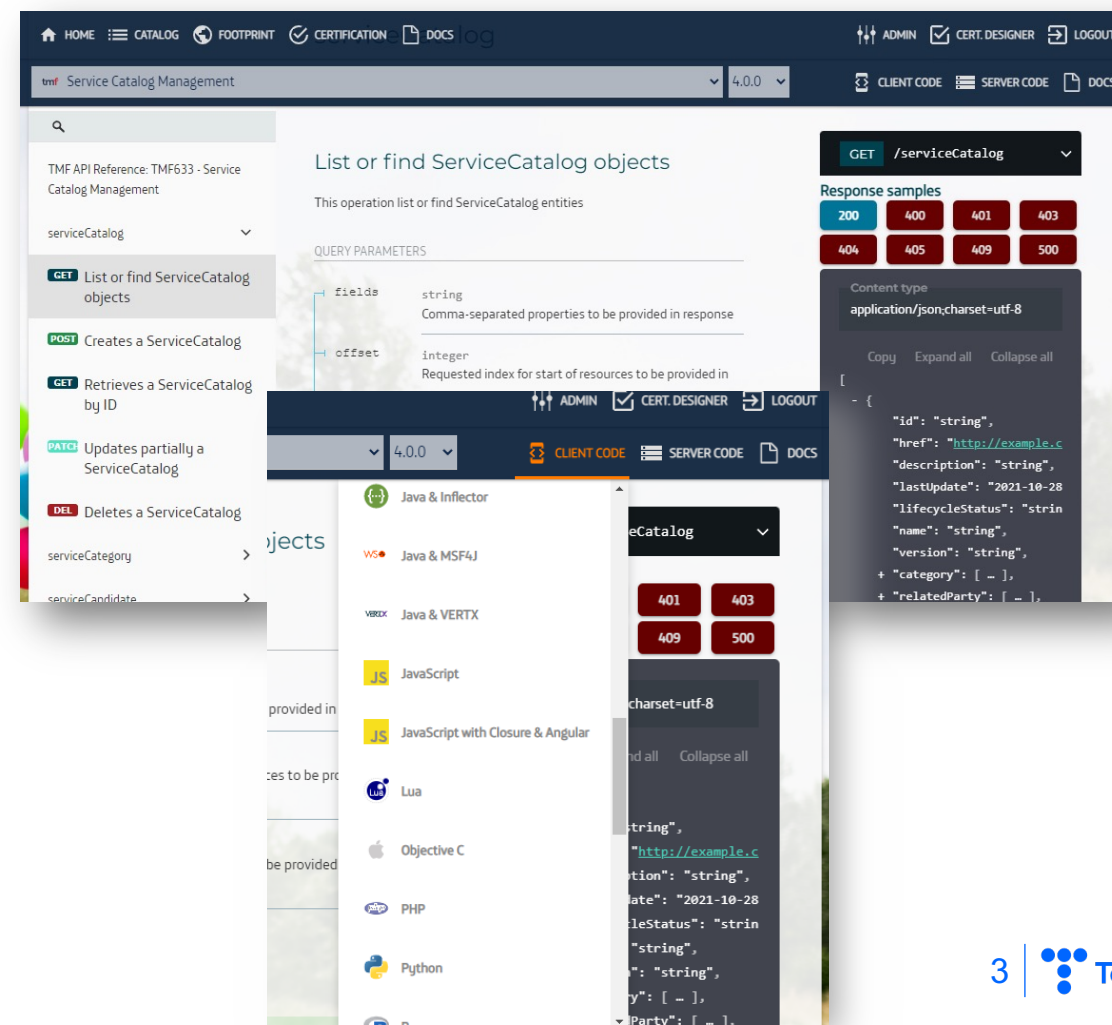
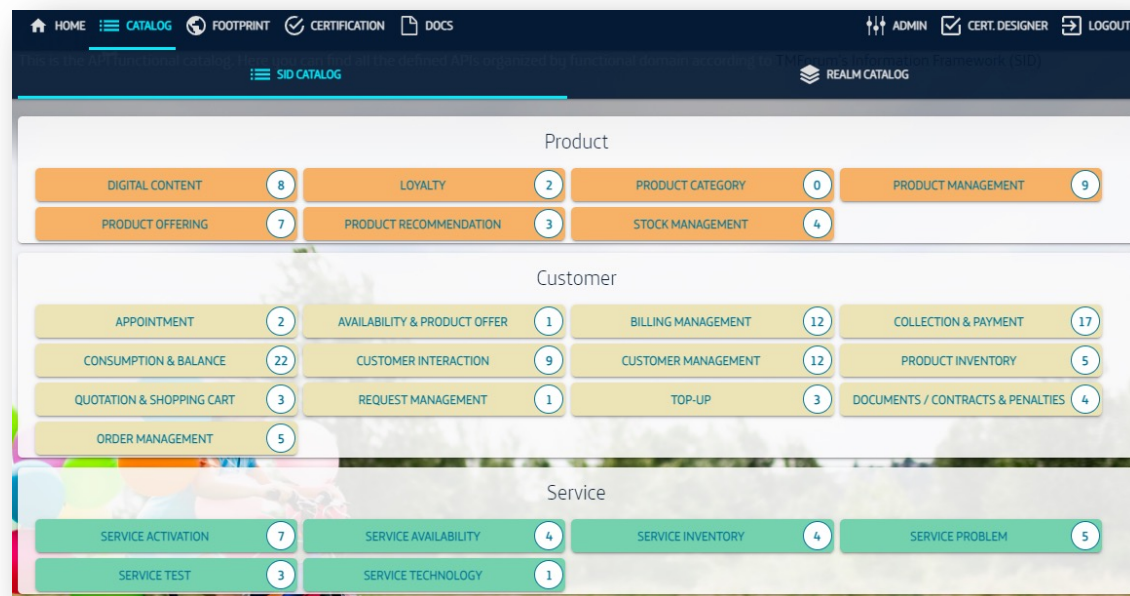
When we are working in the interfaces design to create API Contracts It's so important the catalog centralization in order to make accessible, checkable and categorized all the information with a friendly user interface focused in all kind of profiles (Developers, consumers, exposers...)





Catalog & Documentation centralization Portal

This kind of centralization makes available tools like API Catalog, API Contract Viewer, API Documentation Linked, API Code generator, Planification Tools, Testing Tools...





Catalog & Documentation centralization Portal

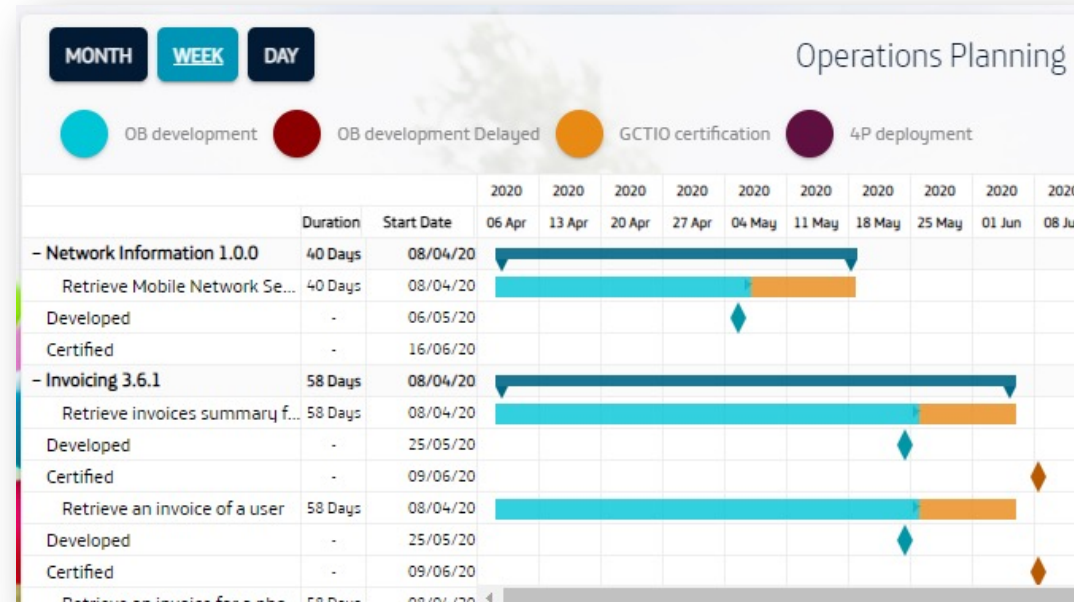
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Report

Test	Request	Response	Result
ERR Retrieve user profile [invalid user_id using /me]	REQUEST	RESPONSE	✓
ERR Retrieve user profile [invalid user_id]	REQUEST	RESPONSE	✓
Retrieve user profile using /me	REQUEST	RESPONSE	✓
Retrieve user profile	REQUEST	RESPONSE	✓

Buttons: BACK, SAVE, DOWNLOAD, CHECK, CERTIFY

- Save Report and active the other functions
- Download PDF report
- Check which operations are ready to deliver to CTIO
- This functionality is only available for CTIO certifiers



User Profile 3.5.1

Certifications

operation	countries
getUserProfileInfo	[Flags: Argentina, Brazil, Chile, Colombia, Ecuador, France, Germany, Italy, Mexico, Peru, Spain, Switzerland, UK, USA]
listUserProfileInfos	[Flags: Argentina, Brazil, Chile, Colombia, Ecuador, France, Germany, Italy, Mexico, Peru, Spain, Switzerland, UK, USA]

The API portal in a nutshell

API Catalog



Allows API Inventory and tag them with different criteria (ej. Functional Domain, Realms, Departments, etc...), in addition allow check APIs defined at global level and which ones are being used/implemented in each country.

BIG NUMBERS

APIs Tool

100%

Dual Vision
(Governance Centric & Local Implementation)

100%

Third Party Portal-less
(Services & Resources)

+80%

Roadmap
Predictability

+ 70%

Increase API Life Cycle
Productivity

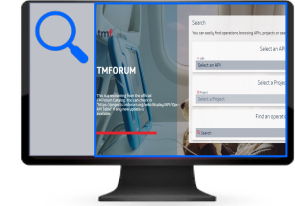
+30%

Reduce Effort
Implementation

+ 60%

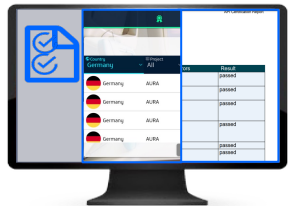
Reduce Effort Testing

API Technical Implementation Repository



Allows Microservice Inventory (orchestration level and data access) which ones each API requires to consume to offer the different capabilities.

Planning Tool & Roadmap



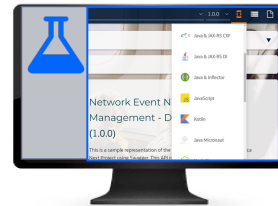
API Deploy Planification control tagged by OB (develop, certification and deploy).

Services & Implementation Desing tool



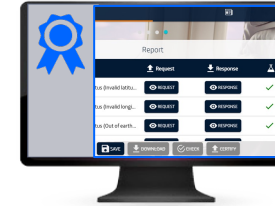
Allows registry and update all the API contracts uploaded in the portal instance, here is where all the technical details are detailed for each interface designed: version, operations, securization models...

Client & Server Code Generator



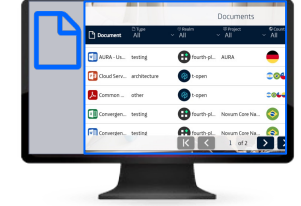
Allows code templates auto-generation of the server / client services based on API contract.

API Testing Automation



Makes automatically the syntax, semantic and functional validation of the API implementation deployed in an environment based on a test list defined previously.

Documentation Repository



Centralized repository of all information relative to the Apification process (documentation, standars, test plans, architectures...).