



universidade de aveiro
theoria poiesis praxis

Effective management of access and services



universidade de aveiro

The University of Aveiro (UA) is a public foundation governed by private law, whose mission is the intervention and development of undergraduate and postgraduate training, research and cooperation with its communities.

Founded in 1973 and a national pioneer offering training in several areas, the UA is currently regarded as one of the most innovative universities in Portugal, renowned for the quality of its teaching and research, and for its cooperation with the business world. UA's mission is to create, share and apply knowledge, involving the entire community through teaching, research and cooperation with the surrounding environment, to make a clear difference to individuals and society.

With more than 15,000 students in undergraduate and postgraduate programmes, the University of Aveiro has cemented a relevant position among higher education institutions in Portugal and is one of the top universities in terms of the quality of its infrastructures, the strength of its research and the excellence of its staff.

The challenge

The University of Aveiro (UA) manages a diversified application ecosystem, which offers a wide and differentiated set of services to its different stakeholders. Countless digital services need to be implemented and maintained for students, teachers, staff, potential candidates, alumni and even other universities to interact with the UA. These vary according to the type of access, the physical location and the level of security required for the operation in question.

- As many of these implementations are carried out by different teams, managing all the resulting scenarios in a non-standardised model quickly became complex and unscalable. The need for the correct identification of all the dependencies discovered limitations and reduced the speed of detecting incidents and the necessary evolution of the basic system.
- Therefore, the solution presented by Xpand IT sought to streamline all these management process and the implementation of new integrations with the UA, promoting visibility and traceability for more efficient problem resolution, and facilitating the development and adoption of new services for internal and external entities.

The solution

To achieve the proposed objectives, a middleware strategy was defined, based on the implementation of a consolidated platform, and capable of offering the robustness and agility required by the University of Aveiro.



Technology



WSO2 is an enterprise and open-source middleware platform that enables organisations to create integration services and APIs on-premises, in private or public clouds or in hybrid environments, and easily migrate between them if required.

Its product portfolio is pre-integrated and focuses on various middleware areas such as agile enterprise integration, API management and identity and access management.

WSO2 Enterprise Integrator

This enables development teams to integrate applications, data and systems, applying integration architectures and standards to best meet business needs (such as implementing an enterprise service bus).

WSO2 API Manager

It leverages the entire lifecycle of the API management process within the organisation, supporting the creation, publication and control of APIs, as well as their discovery, testing and consumption.

WSO2 Identity Server

Centralises the security management of applications and users, guaranteeing their authentication and the respective authorisation to access resources and services.

Benefits

A fast, efficient response to incidents and other technical problems, through standardised and centralised alert and traceability mechanisms.

The enforcement of security and auditability policies in the access to services by different applications and entities, according to their authorisation levels.

The governance of services and APIs, by defining procedures for the correct implementation and documentation of artifacts.

Quality and agility in the creation and availability of new services and APIs for internal and external consumption, promoting self-service.

“ Through this project, the UA wanted to find an agile, secure, reliable solution for its application ecosystem. The goal was a solution capable of responding to the needs of integration and internal and external interoperability, at the information systems level. Xpand-IT has met expectations and has provided technical support across the board, from design, to operation, to complex integration scenarios. ”

Cláudio Teixeira
Director of Information and Communication Technology Services
Aveiro University

