The main goal of the TFC has been to collaborate with AENA and AGECONTROL in the creation of a monitored interface system and control of electromechanical and energy facilities at Barcelona’s Airport. The work is based on the AENA (Aeropuertos Españoles y Navegación Aérea) corporate guide: Development Standard Projects with Wonderware-industrial Application Server.

The main package for the making of the structures works with ArchestrA technology, together with the “Deployment guide” Wonderware FactorySuite A2. Owing to the connectivity of IAS (INDUSTRIAL APPLICATION SERVER) and using the existing SCADAS, a control platform has been configured to able to support a number “limitless” of clients, necessary for the exploitation of airport facilities. The IAS'connectivity allows to integrate the Administration Facilities system inside the AENA net Operational Systems Messaging Bus (working with TIBCO, the management software).

During TFC charters, necessity of using the selected tools is transmitted for its integration at AENA’s net. IAS integration characteristics improves the TCO (Total Cost Ownership)

The most significant aspects are illustrated inside each installation in this TFC. Followed steps are determined and documented during the meetings with AGE-CONTROL organization for the creation of the objects. A possible solution is presented for its publication inside the objects pattern of AENA corporation net. Inside the different areas we can find in these TFC functionalities and structures of these objects are described.

As culmination, the development a control model SCI installation (Sistema de Control de Instalaciones) is presented.

The controls interface and monitoring system which is developing have a vital importance to confront energy mishaps with agility. The control of parameters and the quality of energy allow us to resolve present punctual problems, saving energy for the future.