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## TSO-DSO information exchange: a standard based methodology used in TDX-ASSIST European Project

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*The TSO and DSO information exchange has been identified as a key subject to improve the performance of power systems. The standard assessment of the business objects needed to improve this exchange of information will be discussed. The standard assessment is based in the pertinent business and system use cases identified in European project TDX-ASSIST ([www.tdx\(assist.eu\)](http://www.tdx(assist.eu))) and on IEC Core Standards as defined in IEC 63097 Technical Report Smart Grid Roadmap (IEC CIM series, IEC 62351).*

*Standards considered to be core standards are standards that have an enormous effect on any Smart Grid application and solution. They are seen as a backbone of a future Smart Grid.*

*The **model driven methodology** is based in three main steps (Business Use Case definition, System Use Case definition, Business Objects standard assessment). This methodology will be discussed and some examples of the standard assessment will be described.*

*Finally implementation of these data exchanges using a Service Oriented Architecture (SOA) will be presented based on EDF demonstrator.*

*The following pictures examples will illustrate the discussion:*

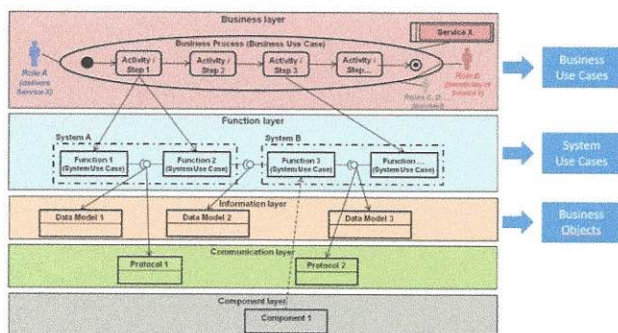


Figure 1 Overall methodology using Smart Grid Architecture Model

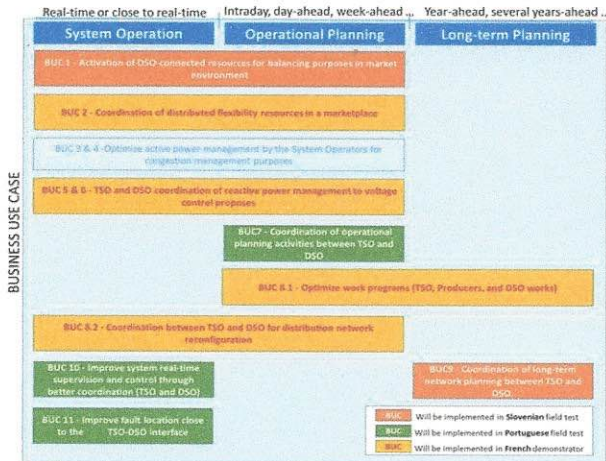


Figure 2 Business Use Cases

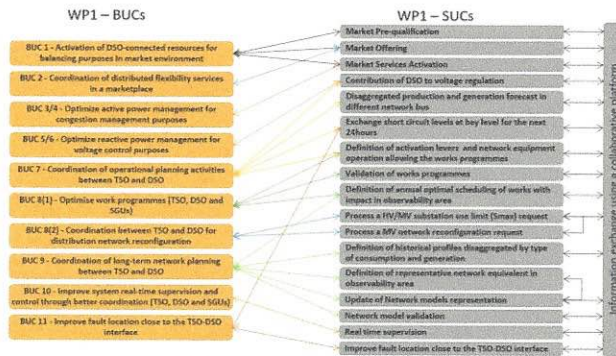


Figure 3 Business and System Use cases relationships

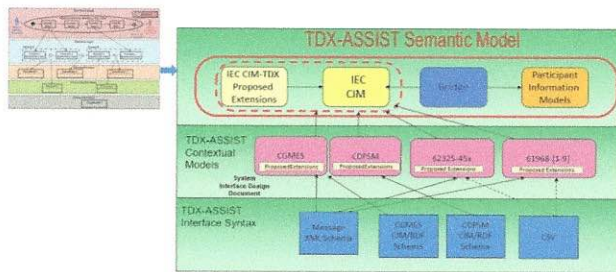


Figure 4 Message Exchange methodology

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