



The EU demands an unbundling on the electricity and gas market, putting energy suppliers under immense pressure to meet the tight deadlines.

EDI@Energy

1. As part of informational unbundling, energy providers are forced to unbundle the operational units network, supply and consumption measurement (measurement operations and services).
2. All communication between the unbundled units must be compliant to specific standards.
3. In Germany, the informational unbundling must be concluded by October 1, 2010.

Identical and standardized processes have to be used for all communication, regardless of the communication taking place externally, internally, or in between unbundled business divisions (the regulations in question are BK6-

06-009 Strom and BK7-06-067 Gas according to BNetzA in Germany). This is to guarantee a free and equal access to the European power and gas distribution system for all energy providers. After the implementation, it will be the energy providers' responsibility to prove standard compliance at any given time – thus, the burden of proof lies with the energy provider.

The challenge

TRICENTIS has inquired the status quo with the affected companies. The findings show that at the moment, most of the business processes affected by unbundling face a substantial lack of quality assurance.

- Testing is conducted manually and unsystematically
- Suitable concepts exist neither for scalability tests nor for regression testing after project conclusion

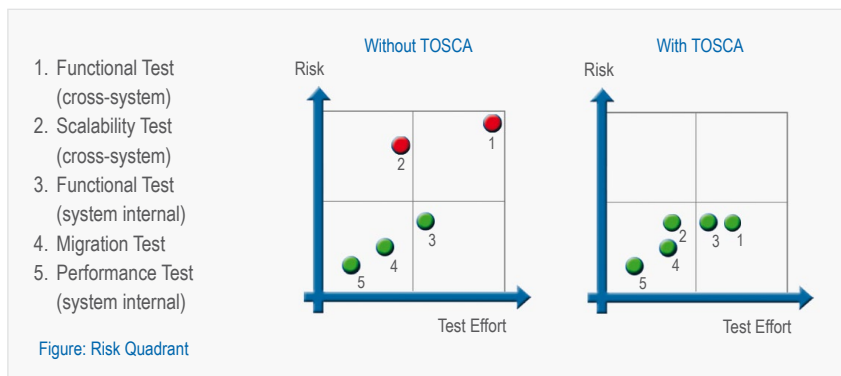
The consequences: minimal test coverage with maximum test efforts and maximum runtime with minimum performance.

As long as the standard process is applied, cross-system testing of the new, complex processes affected by unbundling projects can only be tested insufficiently and late. All involved systems would first have to be up and running, which means accumulating a tremendous functional risk at the final state of the project.

TOSCA Testsuite™

TOSCA Testsuite™ is an integrated solution for test management and test automation, serving as a single administration interface for manual, partly automated as well as fully automated test case portfolios:

- Automated message generation and verification
- Manual and automated simulation of user interaction
- Stable execution of automated tests with only a minimum of maintenance required
- Message generation and message distribution can easily be automated for performance scenarios
- GUI- as well as non-GUI systems can be tested in a purely business based way with no programming knowledge required at all
- Complete test case portfolios with industry-wide validity are already at hand and only waiting to be used in unbundling projects
- Powerful AddIn-concept for the seamless integration of existing requirements- and defect-management-systems



The solution: TOSCA@energy

With TOSCA Testsuite™, a complete simulation of the unbundled units network, supply and metering can be conducted even before the unbundling process is available cross-system.

Separated test tracks allow to comprehensively test already in an early development state. Cross system tests during the final phase of the project merely serve as spot tests.

A predefined set of standardized messages with industry-wide validity is already part of TOSCA Testsuite™.

TOSCA accomplishes message generation, distribution, and reception processes, as well as response analysis completely automated.

The semantical and syntactical element of all messages necessary for an ideal test coverage are already prepared and only have to be amended by their specific data content. For a performance simulation under production



conditions, data-traffic must be applied to the interfaces. With TOSCA, automated functional test cases can be used for the generation of this load without any adaptations required. TOSCA also provides the desired proof of compliance both for internal and external communication.

Since TOSCA represents tests on GUI- as well as non-GUI-interfaces in an entirely business based way, users only need business knowledge of the test object to cope with the most complex messages. Programming or scripting skills are not at all required.

TOSCA Testsuite™ manages all project risks with an approach that is entirely business based.

In addition, the highly skilled and experienced TRICENTIS consulting team supports your project with profound knowledge of the industry, ranging from test case design, trainings, through to test execution.

Easy testing with TOSCA

- Separation of cross system tests is possible in any project phase
- Tests can be performed partly or fully automated at an early project state
- The test portfolio can be used for efficient regression testing at any time
- Manual test cases from early project phases can be integrated into the completely automated test case portfolio through a simple mouse click
- Comprehensive test protocols provide proof for communication compliance in between the business units of energy providers



Offices

TRICENTIS Head Office
Technology & Consulting GmbH
Leonard-Bernstein-Straße 10

1220 Vienna
Austria

Phone: +43 (1) 263 24 09-0
Fax: +43 (1) 263 24 09-15
Email: office@tricentis.com

TRICENTIS
Technologie & Consulting GmbH
Airport Center, Haus C
Flughafenstraße 52a
22335 Hamburg
Germany

Phone: +49 (40) 53299-320
Fax: +49 (40) 53299-100
Email: office@tricentis.com

TRICENTIS
Technology & Consulting AG
Europastraße 13

8152 Opfikon/Zurich
Switzerland

Phone: +41 (44) 828 18 88
Fax: +41 (44) 828 18 80
Email: office@tricentis.com

