Smart Grid Testing Tools
Design and development of Testing Tools for Smart Meters & Smart Data concentrators and other data communication equipment of the Smart Grid.

AIMED AT

- Manufacturers of:
  - Smart Meters (Service Nodes)
  - Smart Data Concentrators (Base Nodes)
  - PLC boards (Chipsets)
  - Smart Grid communication equipment
- Utilities
- Technology services and outsourcing companies
- Laboratories
- Suppliers of Smart Grids and Smart Meters technology

SERVICES

- Turnkey
- Joint development
- Help manufacturers for certifications
- Definition of specification of Testing Tools
- Provide Testing Tools to ensure reliability and interoperability of the technology

TESTING TOOLS

- DLMS Companion Debugging Software
- DLMS Functionality Testing Tool
- PRIME Certification Testing Tool for Service Nodes
- PRIME Certification Testing Tool for Base Nodes
DLMS PROTOCOL TESTING TOOL

DLMS COMPANION DEBUGGING SOFTWARE
Software developed by TECNALIA that lets you quickly and easily check the OBIS defined in DLMS Protocol in your Smart Meter.
This Testing Tool allows the following operations:
• Read/Write/Execute actions of any of the OBIS defined in DLMS Communication protocol through PLC, HDLC, GPRS or serial communication.
• Do the firmware upgrade of a meter.

DLMS FUNCTIONALITY TESTING TOOL
Software developed by TECNALIA that lets you quickly and easily check the functionality of the Smart Meters and the DLMS Communication protocol.
DLMS functionality Testing Tool allows the following operations:
• Certification of the Smart T5 Meters according to Spanish Market Companion.
• Certification of the Smart Meters according to Portuguese Market Companion.

PRIME PROTOCOL TESTING TOOL

PRIME CERTIFICATION TOOL FOR SERVICE NODES
Software developed by TECNALIA that lets you quickly and easily check the test cases of the PRIME-Certification Service Node Test Cases defined by the PRIME Alliance. With this SW you will be able to check PRIME Communication protocol conformance.

PRIME CERTIFICATION TOOL FOR BASE NODES
Software developed by TECNALIA that lets you quickly and easily check the test cases of the PRIME Certification BN Test Cases defined by the PRIME Alliance. With this SW you will be able to check PRIME Communication protocol conformance. This Testing Tool will allow the Certification of the Smart Data Concentrators according PRIME-Spec.
Prime Base Node Certification Testing Tool allows the following operations:
• Apply test cases defined in PRIME
• Certification BN Test Cases.
• Define and run your own test cases.

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TECNALIA is a private applied research & testing centre with the necessary human resources to generate technological knowledge. A combination of technology, tenacity, efficiency, courage and imagination. TECNALIA has over 1,500 expert staff working together towards a common goal: generating business opportunities through applied research and technical services.

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