7 layers

testing for a smarter world

INTERLAB® FEATURE EXPLORER
UNIQUE PICS/PIXIT DETECTOR FOR WIRELESS DEVICES

Test House | Systems House | Software House

- Which features does my product support?
- What is the appropriate configuration for my network simulator?
- Which feature changes have been introduced with this new software revision?

If you are confronted with such critical questions, the brand new and unique INTERLAB® FEATURE EXPLORER is ideal for you.

So far, the PICS/PIXIT information of a wireless product or module is usually described manually. This takes a lot of time and the more complex the product, the more difficult it is to select the correct PICS/PIXITs. Intensive debates between manufacturers, test departments and network operators can be the result. Providing wrong or incomplete PICS/PIXITs can however result in incorrect test plans, incorrect configuration of test systems and even unusable test results.
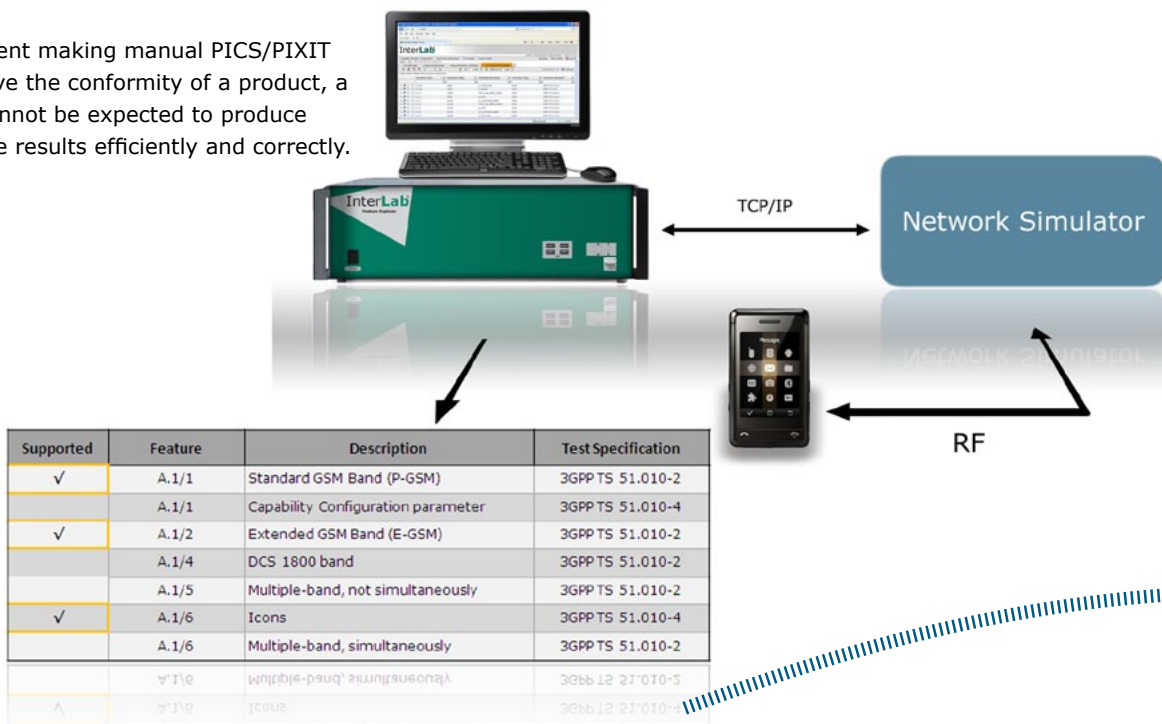
Often a lot of time is spent making manual PICS/PIXIT changes in order to prove the conformity of a product, a working method that cannot be expected to produce reliable and reproducible results efficiently and correctly.

FUNCTIONALITIES

The InterLab® Feature Explorer derives and identifies all relevant features implemented in a wireless device supporting GSM, W-CDMA or LTE technologies – and then automatically generates an exact product description.

Developers, testers, network operators and other interested parties are provided with an up-to-date and correct description of what a product is really able to do. This is of immense value during R&D, conformance testing and network operator approvals, eliminating wastage of valuable test and analysis time!

With the InterLab® Feature Explorer you can always be sure that you are verifying the true product features in a reliable, efficient and reproducible way.

Supported	Feature	Description	Test Specification
√	A.1/1	Standard GSM Band (P-GSM)	3GPP TS 51.010-2
	A.1/1	Capability Configuration parameter	3GPP TS 51.010-4
√	A.1/2	Extended GSM Band (E-GSM)	3GPP TS 51.010-2
	A.1/4	DCS 1800 band	3GPP TS 51.010-2
	A.1/5	Multiple-band, not simultaneously	3GPP TS 51.010-2
√	A.1/6	Icons	3GPP TS 51.010-4
	A.1/6	Multiple-band, simultaneously	3GPP TS 51.010-2

INTERLAB® FEATURE EXPLORER

The 7Layers group has many years experience with cellular technologies, conformance test systems, validation activities and hundreds of executed test sessions. This has allowed us to develop and design the InterLab® Feature Explorer. It is currently capable of extracting more than 400 important

product features and parameters, an amount which is continuously increasing.

MAIN FUNCTIONS

- Extracts implemented product features automatically based on the signaling information between the network simulator and the examined product
- Derives detailed PICS/PIXIT information
- Provides product descriptions
- Exports results into different file formats
- (e.g.: xls, pdf,…)
- Compares product descriptions
- Runs as a web application
- Enables access via standard internet browsers such as Internet Explorer or Mozilla Firefox
- Works in combination with different network simulators
- Fully integrable in InterLab® test management and automation tool chain

SUPPORTED TECHNOLOGY STANDARDS

UTRAN 3GPP TS 34.123, 31.121, 31.124
GERAN 3GPP TS 51.010
Extension package
LTE   3GPP TS 36.523 and 36.521

FIELDS OF APPLICATION

- Creation of product description within minutes
- Identification of real test requirements, invaluable basis for correct test plans
- Verification of your software revision configuration tools
- Setting the correct PICS/PIXITs of test systems
- Automated, reliable comparison of product versions
- Pre- and post-check of product capabilities

DELIVERABLES

Item	Description	Details
1	InterLab® Feature Explorer plug-and-play stand-alone system	InterLab® Feature Explorer web application, Windows operating system, metal housing with embedded PC, USB connections, network card
Config: Anite	Works with Anite SAT (A) UE	Enables connection to item 1 including extraction capabilities
Config: R&S	Works with Rohde & Schwarz CRTU-G/CRTU-W	Enables connection to item 1 including extraction capabilities
2	1-year Support & Maintenance	Software updates and support services

Note
- Hardware and basic software of network simulators not included in offering
- Support of other network simulators upon request

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