



*driving **your** success*

*How 7 layers can help speed up your
research and development projects*



*efficient integration of measuring and test procedures
into R & D projects for wireless communications products*



Product Development Support from 7 layers will help you lead the way!

The growing complexity of research and development projects for wireless communications products is accompanied by the rising pressure to be time and cost efficient. 7 layers, an experienced consulting and engineering partner, is ready to support you with fast and reliable solutions to manage this challenge.

Due to our early engagement in the development of new technologies and our participation in important technology boards, 7 layers can provide you with the most advanced support for your research and development projects.

7 layers consultancy activities ideally combine technology know-how with years of experience in wireless communications testing. As early as the 1980's our experts started developing new and more efficient ways of handling research and development projects via the integration of measuring and testing.

The outcome of this is the unique InterLab® system that optimizes R&D processes through the best possible integration of test and analysis procedures. This way, you will be relieved from tiresome, repetitive testing and documentation tasks, thus freeing up your resources for the real development work.

InterLab® is a registered trademark of 7 layers AG



Integrate our unique test and analysis procedures into your R & D processes to make product development more efficient

Research & development projects have to be accompanied by complex measurement, test and documentation tasks in order to carry out test analysis and error tracking, thus ensuring the fast development of products in compliance with their specifications.

Before starting with the actual test and measuring processes it is important to define a detailed product specification which takes into account completeness, correctness, consistency and testability.

With the InterLab® system, 7 layers is able to support you in efficiently integrating these tasks into your development process.

The InterLab® system supports

- Facilitated development of product specific test cases
- Immediate, overall availability of (newly developed) test cases
- Automation and exact repeatability of test procedures
- Immediate, overall availability of test results and their documentation
- Analysis of test results
 - o Describing the development progress
 - o Emphasizing areas that need attention

The InterLab® system is ideal for

- Analytic methods, e.g. reviews, walk-through, inspections
- Hardware and software components testing
- Integration and implementation testing
- Product evaluation testing

visit www.interlab.net for more information



Inter**Lab**®

7 layers consulting services will give you more room to develop

Consulting on the integration of testing into development

Our services support the highly efficient integration of test and measurement procedures and the analysis of test results into development processes thus establishing faster and more reliable product development.

Consulting on product specifications

7 layers offers leading-edge know-how in communications technologies, coupled with broad expertise in market access requirements. We enable you to capture and analyze all essential factors for new communications products and services. This way you will gain a detailed product specification and an initial product concept in the shortest possible time.

Development of product specific test specifications

Based on our long term experience with test procedures for various communications technologies, 7 layers is able to define detailed test specifications for you. This clearly takes product specifications, test purposes, product set-up, test set-up, test procedures and specified test requirements into account.

Development of product specific test cases

7 layers has years of experience in conventional programming languages (e.g. C, C++, Visual Studio.Net), in graphical environments (LabView, Agilent VEE), in specific script languages and in formal test notations (e.g. TTCN). 7 layers can support the development of test cases via the InterLab® system. This way the development effort becomes smaller and test cases can be made immediately available and are easily re-usable. Documentation of test procedures and results is fully automated.

Development of test solutions and execution of testing

Thanks to our experience in communications testing, 7 layers will enable you to determine the most practicable and cost-efficient test solution in accordance with your specific requirements. We also support you in the actual set-up of such test solutions and the execution of test processes.

Test analysis

7 layers assists you in analyzing measurement and test results and offers consultancy services for fast and successful development.

***Let 7 layers
help drive your success***



***technology
development***



***product
development***



***market
access***

Supporting communications technology development

- Development of core specifications
- Development of test specifications
- Development of test cases
- Development of qualification / certification programs
- Validation of test cases and test systems

Increasing efficiency of research & development projects

- Consulting on integration of testing into development
- Consulting on product specifications
- Development of product specific test specifications
- Development of product specific test cases
- Development of test solutions and execution of testing
- Test analysis

Speeding up market access for communications products

- Qualification, certification and type approval services
- Testing in:
 - 7 layers' InterLab® laboratories
 - InterLab® laboratories of clients and partners
- Fast track qualification for modules and reference designs
- Interoperability testing

***The 7 layers
service
portfolio***

*driving **your** success*

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