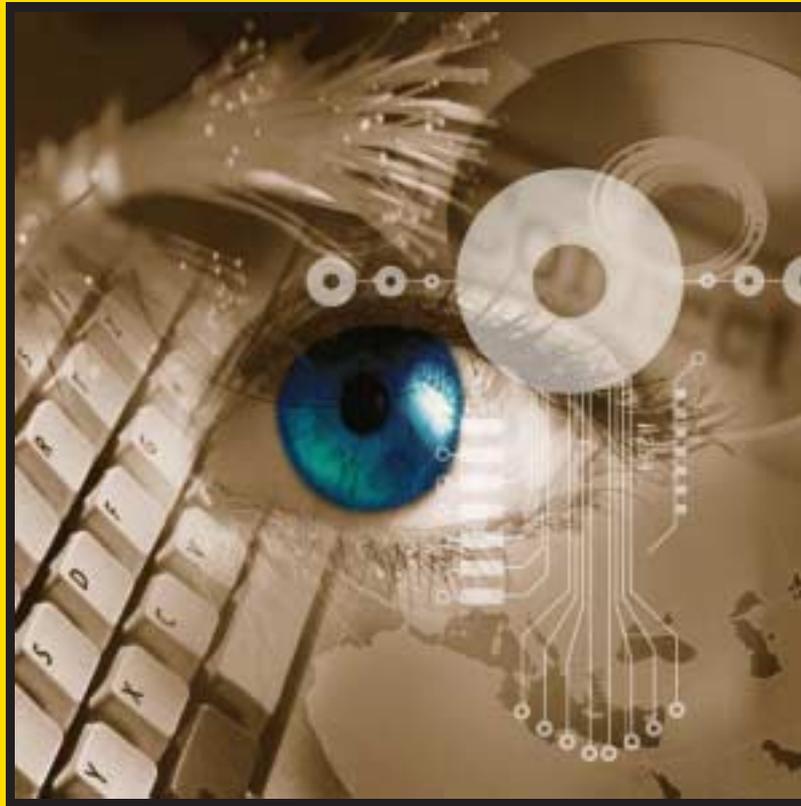


IAR PreQual



**Qualify your
Bluetooth™ application
with PreQual**



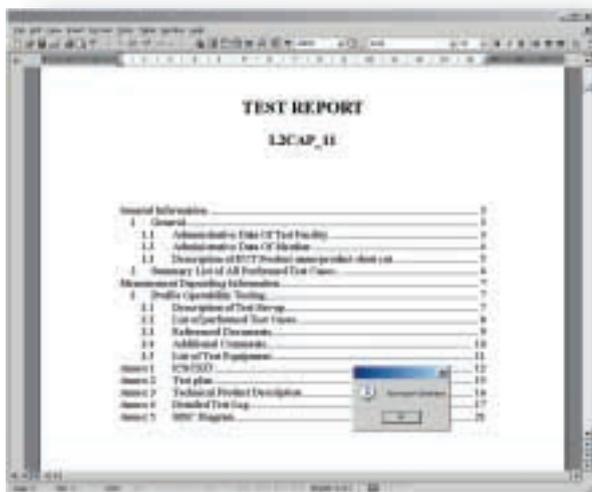
From Idea to Target

Qualify with PreQual!

PreQual is a PC-based test instrument that executes the Bluetooth compliance test requested by your Bluetooth Qualification Body (BQB). Because PreQual is a modular tool, based on a pre-qualified Bluetooth stack, it is a robust and reliable test instrument that is useful for a wide variety of Bluetooth development work. Versatility and compliance are ensured by incorporating the Bluetooth chipset-manufacturers' development kit in the execution engine. The integrated, automatic document generator minimizes the burden of writing test reports in accordance with the structure of the Bluetooth compliance folder. Similarly, the PICS/ PIXIT editor facilitates interactive communication with your BQB regarding the use of test suite parameters.

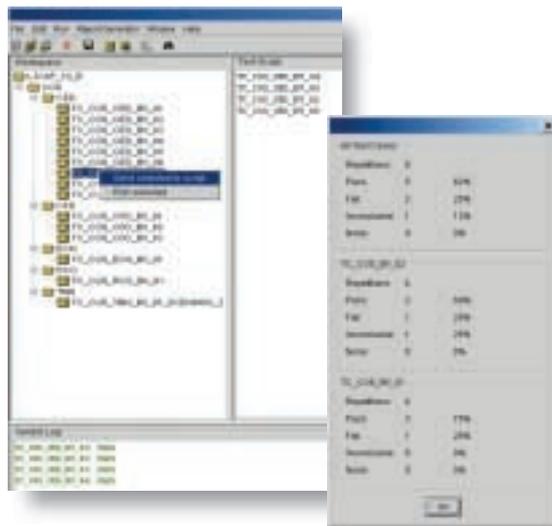
PreQual is designed primarily for Bluetooth development on a pre-qualified chipset. It can be used to run both profile and protocol test suites. When your BQB asks you to run a selection of test cases from several test suites, you will find most commonly-used suites in the PreQual product portfolio, ready-to-use and instantly executable. All of the test suites are written in the official Bluetooth test script language, Tree and Tabular Combined Notation (TTCN), and developed in accordance with the procedures described in ISO 9646-2. With these test suites you can even reproduce a Message Sequence Chart (MSC) log file identical to the one specified in the informal test specification found on the Bluetooth web site. TTCN is the only standardized test script language which, apart from Bluetooth, is used to drive a large number of successful telecommunication standards, such as GSM. TTCN is also expected to be the basis of several upcoming standards. Nevertheless, you do not need to know TTCN to run the ready-made PreQual test suites and generate requested test reports.

Test Report Generator



The test report generator is based on MSWord and produces test reports according to the Bluetooth standardized compliance folder format.

Test statistics



Test statistics provide a good overview of your system reliability. Test statistics combined with the multiple-level trace tool offer powerful debugging capabilities.

Testing and debugging

Running pre-defined test suites to secure compliance according to a standard is called conformance testing. While PreQual is designed to be a complete tool for conformance testing, it offers much more. If your test fails, for example, the MSC tracer and the search function included in the detailed log files offer powerful debugging capabilities. Test statistics and scripting functionality will help you to set up and run test benches for a total system. PreQual can even be integrated into a test management system, since it includes a standardized interface between the graphical user interface and the execution engine.

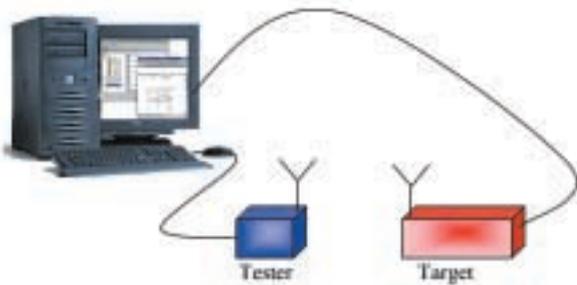
Because it is based on a standard development kit from a Bluetooth chip manufacturer and a PC, PreQual a very cost-

Robustness test



Conditioned batch execution of selected test cases enables you to test the robustness of your system.

PreQual test solution



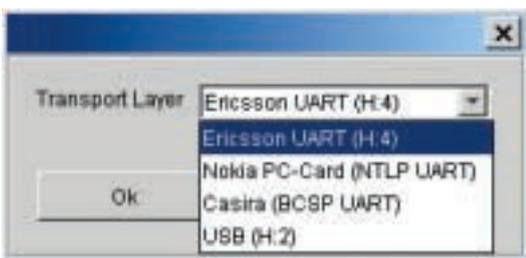
PreQual is a PC based test instrument using the Bluetooth chip manufacturers development kit as the tester device.

efficient test tool. By combining PreQual with a Radio Frequency (RF) sniffer, for example, you can obtain test and debugging capabilities comparable to those of highly expensive instrumentation, at a fraction of the cost! PreQual offers built-in support for a number of sniffers, and by combining tools you can even run and generate reports for test suites below the Host Controller Interface (HCI) level.

Modularity secures future needs

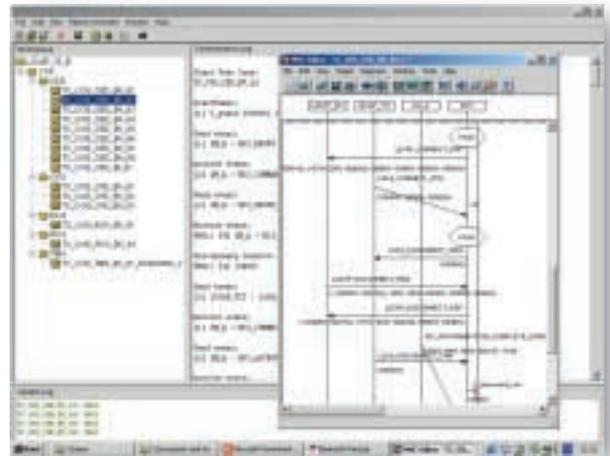
Because PreQual is fully modular and based on the use of TTCN, it is prepared to execute future test suites. Bluetooth test specifications are under constant development, and the set of Bluetooth conformance test suites are continuously growing. As soon as official test suites are validated and ready for release, PreQual will be able to run these too. In the future, the Bluetooth Qualification Test Facility (BQTF) will run official A-classified test suites, but this is expected to be an expensive and capacity-limiting part of the qualification procedure. Using PreQual to run official test suites on your own will ensure immediate and relatively inexpensive success with the BQTF. Furthermore, official test suites run by the BQTF are only some of the tests that your BQB will ask for. The vast majority of tests you will have to perform are classified B and C, which you can easily run and produce test reports with the help of PreQual.

Chip manufacturers development kit



PreQual executes test suites on your chip manufacturers' development kit to ensure that your test environment and target are fully compliant.

User friendly Graphical user interface



PreQual provides an intuitive and user-friendly graphical user interface that offers clear control of test execution and debugging.

The IAR test house

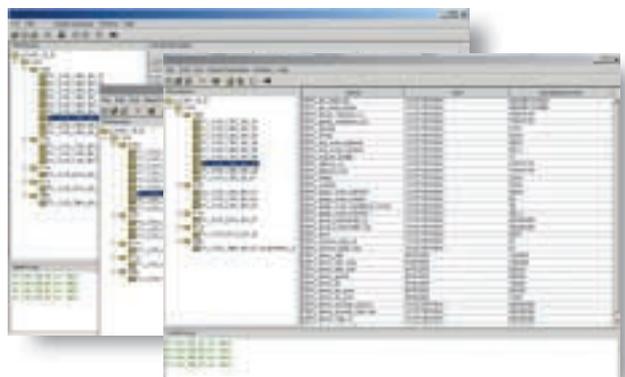
With more than 4 years experience working with Bluetooth test and qualification, including active participation in writing Bluetooth test specifications, IAR Systems has some of the world's most knowledgeable engineers onboard. These same engineers have developed PreQual, and now working at the IAR test house to offer you full-scale Bluetooth test and qualification services.

Don't hesitate to contact your local distributor for more information.

TTCN Developer's studio/ Bluetooth edition

In the PreQual product portfolio you will also find a TTCN development toolset with specific Bluetooth support. With this toolset you have the full power to modify and/or add new test cases, executable on PreQual.

PICS/PIXIT Editor



The integrated PICS/PIXIT editor provides you a structured way to interchange test suite parameters with your BQB.

READY-MADE TEST SUITES

Protocol test suites*	Available
Logical Link Control & Adaptation Protocol (L2CAP)	NOW
Service Discovery Protocol (SDP)	NOW
RFCOMM Protocol	NOW

Profile test suites*	Available
Serial Port Profile (SPP)	NOW
Generic Access Profile (GAP)	NOW
Headset Profile	NOW
LAN Access Profile	NOW
Dial Up Networking Profile	NOW
Fax Profile	NOW

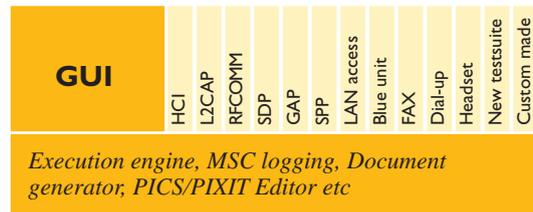
Interface test suites*	Available
Host Controller Interface (HCI)	NOW
Blue unit	NOW

*New test suites are constantly added to the list.
Please contact your local distributor for an updated list

IAR PREQUAL FEATURES

Based on a standard PC platform
Supporting several chip manufacturers development kit
Compliance folder document generator
PICS/PIXIT Editor
Test statistics
Conditional batch testing
Trace and Search debug features
Optional TTCN development tool set
Ready made test suites

PreQual test solution



PreQual is a future proof modular software platform executing ready made test suites.

Acronyms

BQB	Bluetooth Qualification Body
BQTF	Bluetooth Qualification Test Facility
ISO	International Standards Organization
PICS	Protocol Implementation Conformance Statement
PIXIT	Protocol Implementation extra Information for Testing
MSC	Message Sequence
HCI	Host Controller Interface
TTCN	Tree and Tabular Combined Notation (ISO/IEC 9646-3)

For more product information visit our website:

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