
Testing and Certification

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Why Test and Certify?

- ❑ To deliver assurance and confidence in conformance and Interoperability
- ❑ To grow the market, quicker

But....

- How does a buyer know it is one?
 - Brands
 - Certificates
 - Register of branded/certified products

And.....

- How can the supplier and certification body be sure it's true?
 - Testing

Testing

- ❑ Testing is needed as well as a Standard to achieve multi-vendor interoperability
- ❑ Testing is necessary to ensure a consistent interpretation of the standard across different products

Testing

- ❑ To ensure developers and QA teams know whether they meet the standards
- ❑ To underpin a certification program
 - Not just for Certification

Value to Developers

- All IT products need to be tested
 - significant fraction of development cost
 - 10% - 50% in commercial products
 - more in safety and mission critical developments

- Conformance test suites can carry out a significant part of the testing that any product needs in development and QA

Our Test Suites

- ❑ We have been developing automated test suites for software interface standards since 1988
- ❑ Examples:
 - UNIX, NFS, X Windows, Motif, CORBA, LDAP, WAP
- ❑ Test suites are treated as S/W products
 - licenses
 - support and maintenance service
- ❑ Development usually funded through advance license sales

The Open Brand

- = Certification
- + Licensed Trademarks
- + Procurement programs

Certification

- = Conformance Requirements
 - = Integrated Specifications
 - + Static Conformance Requirements
 - + Interpretations process
 - + Indicators of Compliance
 - = test results + test policy
 - + Conformance Statements (ICS)

Licensed Trademarks

= registered trademarks

+ License Agreement

= *warranty that shipped products meet conformance requirements*

+ appeals mechanism

And it's non-negotiable

What was that again??

- ❑ We develop test suites to help vendors build conforming and interoperable products
- ❑ We certify that an instance of the product has formally passed the tests
- ❑ We license the vendor to use a trademark on the product
- ❑ As a condition of the license the vendor *warrants and represents that the products shipped meet the conformance requirements*

Our Trademarks



UNIX®



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WAP™

- ❑ Developed application layer test suites under contract to WAP Forum
 - WML, WMLscript & libraries
 - Additional test coverage under development
 - All formal testing takes place over the internet
- ❑ Developed WAP Forum Certification program
 - With IOT and IOTE working groups
 - Substantial use of Web and automation
 - ICS and PR (Interpretations) system
- ❑ WAP Forum Certification Authority

WAP Example

- WAP Certification entry page