UNIX is a registered trademark of The Open Group

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UNIX 03 Certification

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Program Principles

- Clear and well-defined:
  - certification policies
  - processes for achieving and maintaining certification
  - based on industry best practice.

The Open Brand

- Operates under trademark law
- Designates products that are guaranteed to conform to open systems specifications
- A vendor guarantees that any non compliances will be fixed within a defined time period
- http://www.opengroup.org/openbrand/

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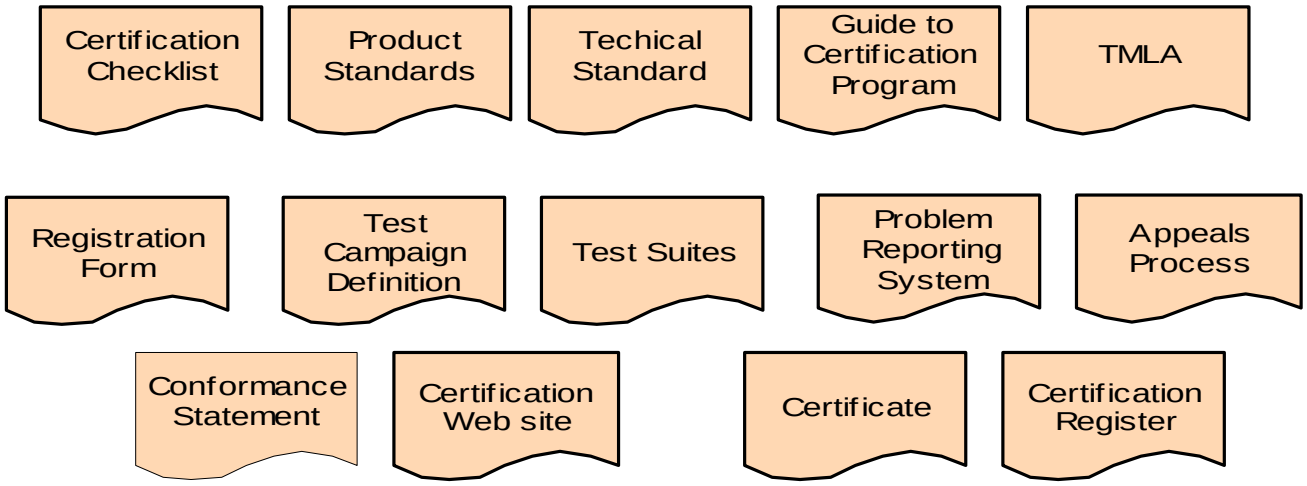
Trademark License Agreement

- Vendor guarantee of conformance to specifications.
  - Vendor 'Warrants & Represents'
- This guarantee ensures that:
  - Products conform to a specification
  - Products remain conformant throughout the life of the product’s registration
  - Any non-conformance will be fixed in a timely manner

Program Elements



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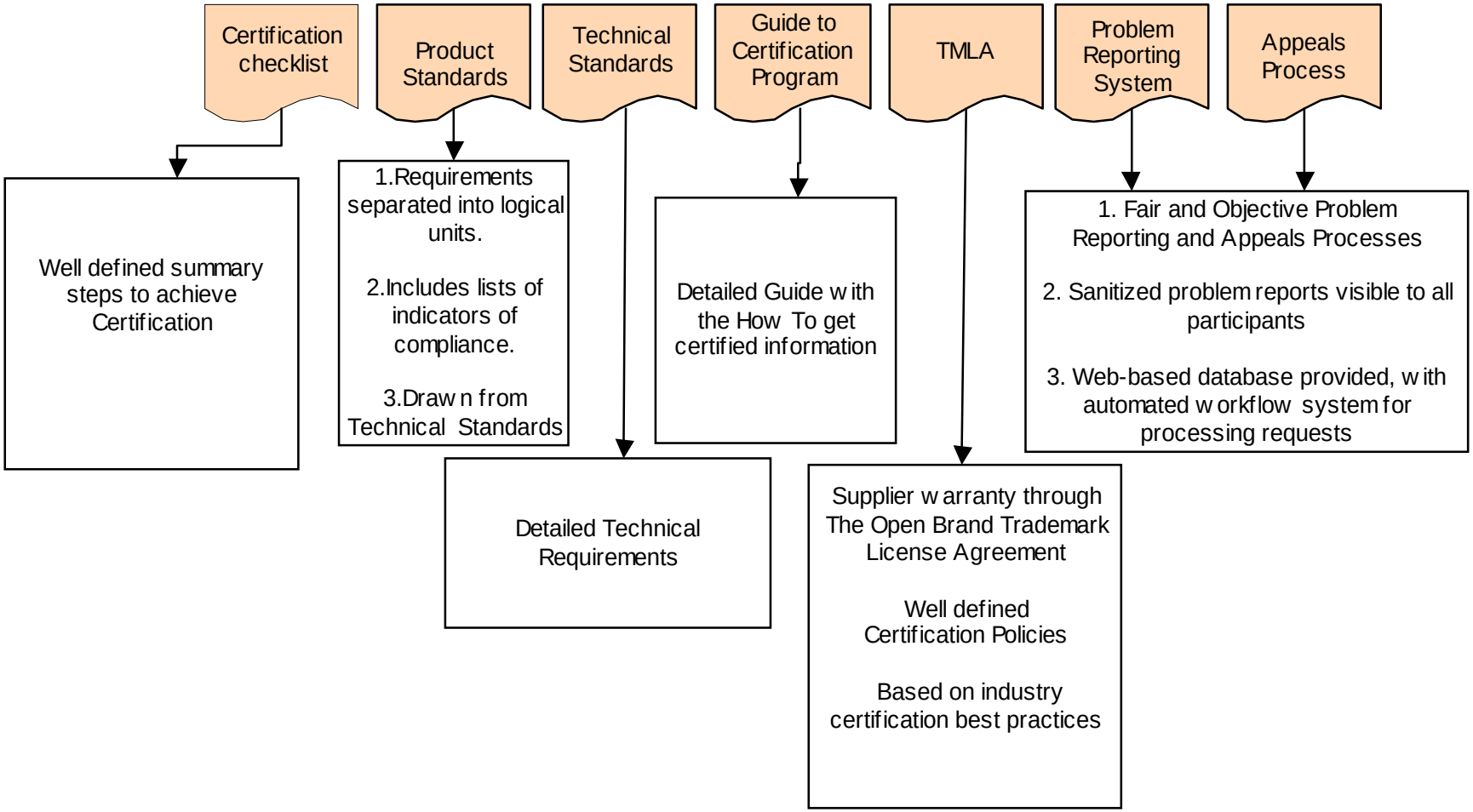
Elements (1)



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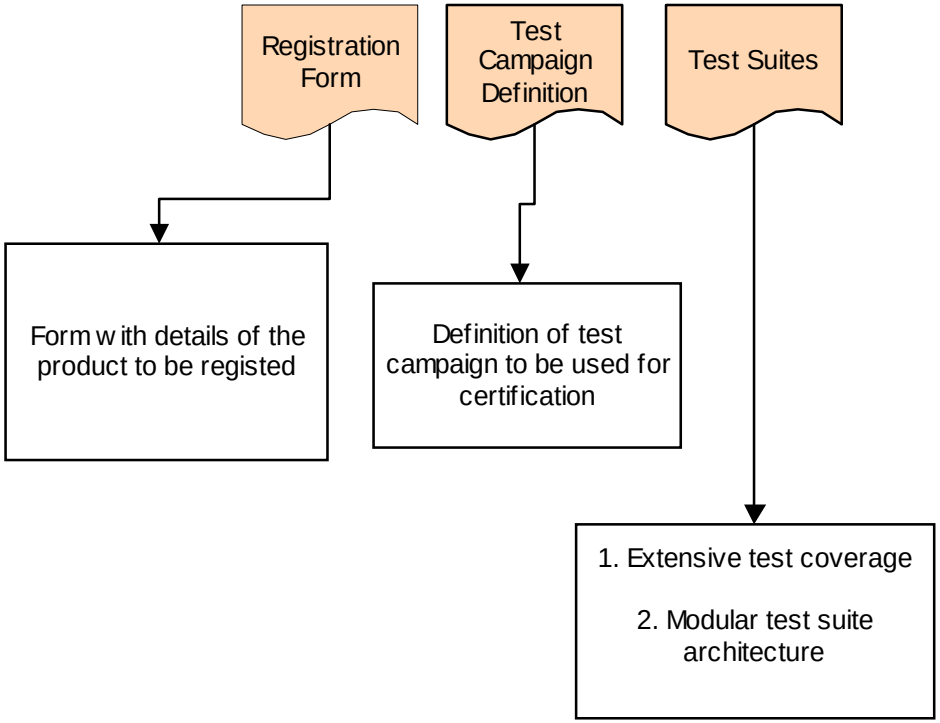
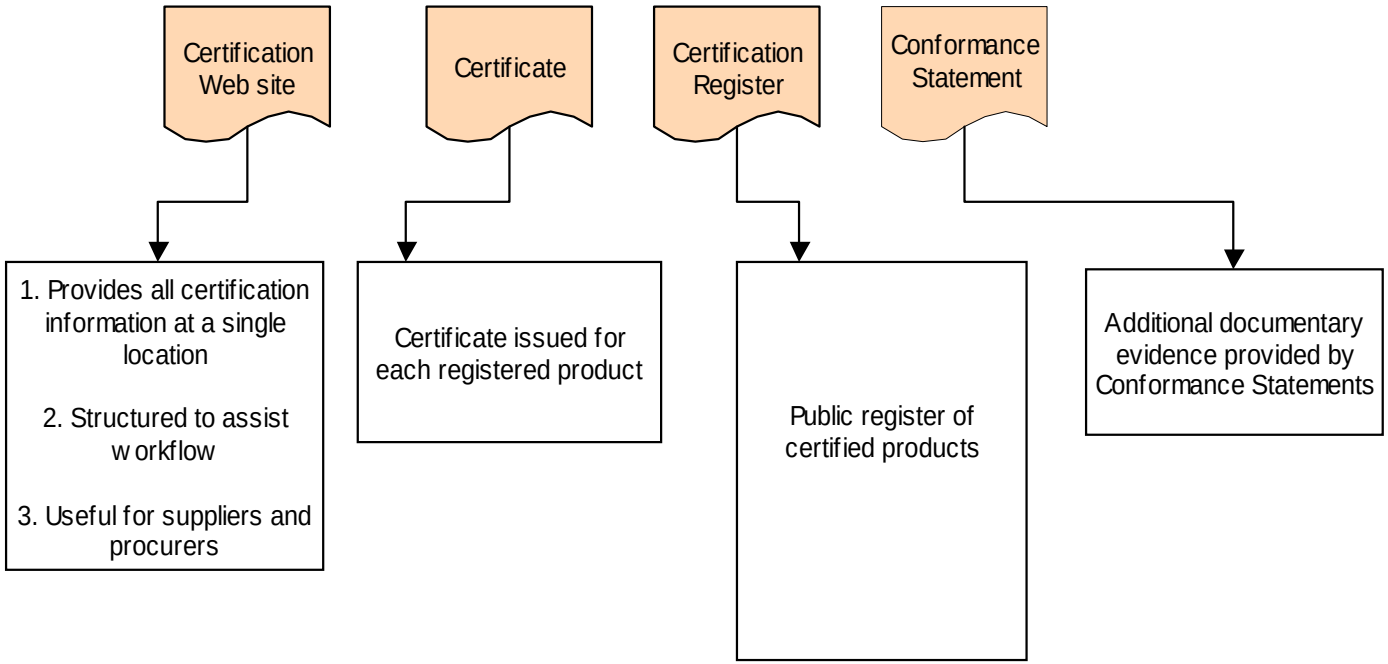
Elements (2)


Registration Form
Test Campaign Definition
Test Suites
Form with details of the product to be registed
Definition of test campaign to be used for certification
1. Extensive test coverage
2. Modular test suite architecture

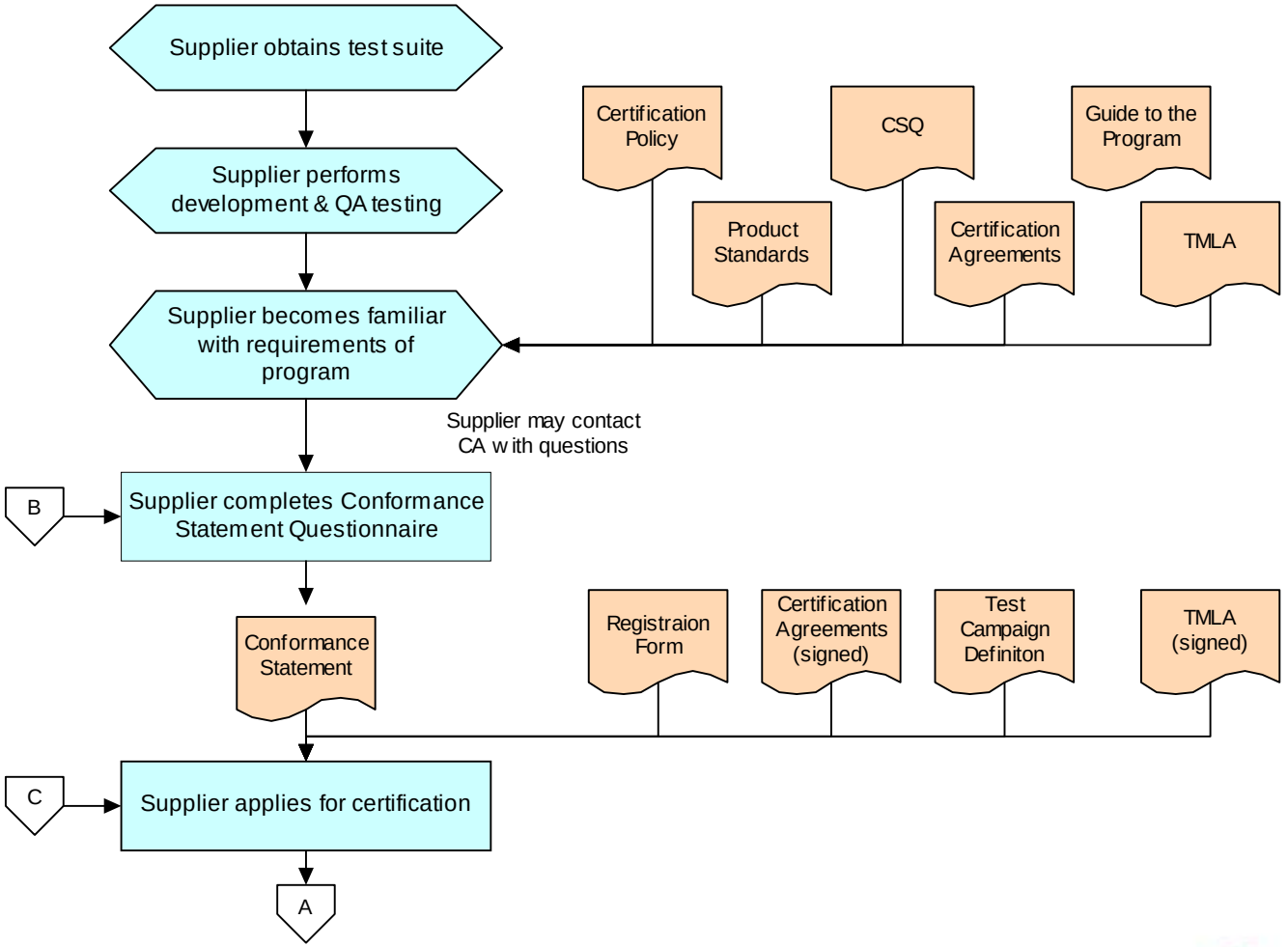
Elements (3)


Certification Web site
Certificate
Certification Register
Conformance Statement
1. Provides all certification information at a single location
2. Structured to assist w orkflow
3. Useful for suppliers and procurers
Certificate issued for each registered product
Public register of certified products
Additional documentary evidence provided by Conformance Statements

Certification Process - Roles

- Specification Authority
  - Specification owner – responsible for developing, maintaining and interpreting the specification(s)
- Certification Authority (CA)
  - Manages the day-to-day operations of the certification program
  - Ensures quality, fairness and integrity
- Test Suite Maintenance Authority (TSMA)
  - Maintain the test suites

Certification Process (1)



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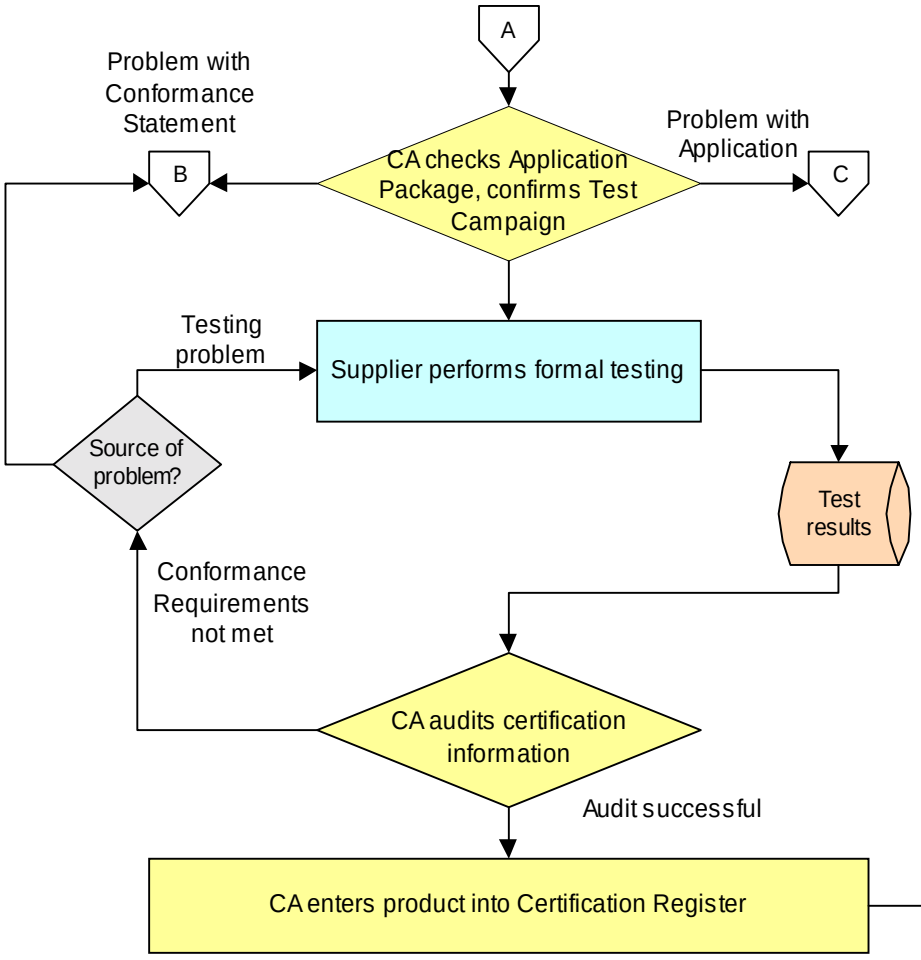
Certification Process (2)



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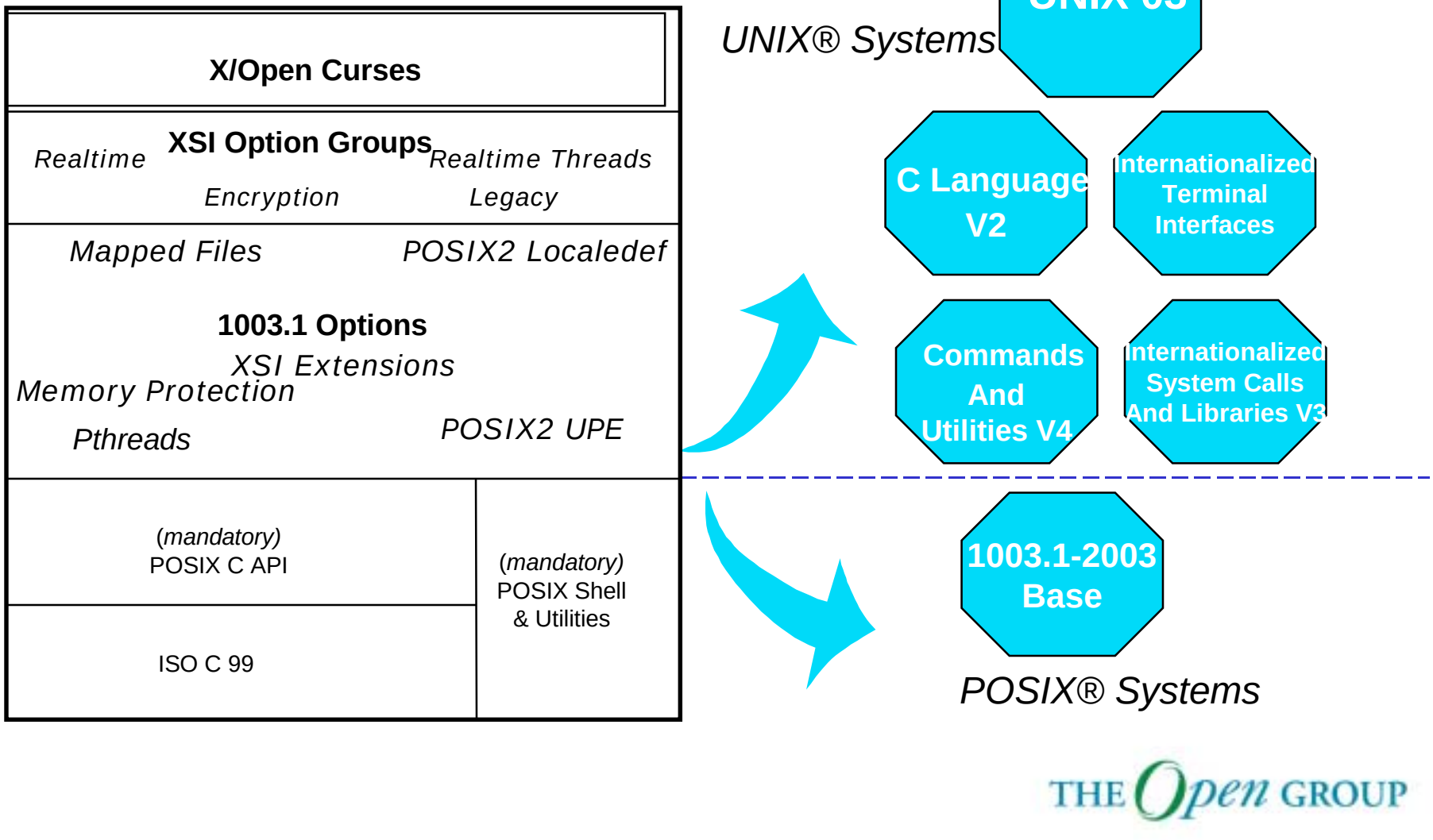
Product Standards

- Define the Conformance Requirements
  - Define what a conforming product must do to be compliant
    - Also defines what it must not do to be considered compliant
  - Separate document for each product type or grouping of functionality
  - Provides mapping between products and Technical Standards and other referenced specifications
- Define the testing requirements

Specifications vs Product Standards



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UNIX 03 Product Standards

- UNIX 03 - the mark for systems conforming to Version 3 of the Single UNIX Specification

- UNIX 03 - "*the standard base*"
- UNIX 03 Server
  - UNIX 03 plus Internet Server capabilities
  - Adds interoperability services to the UNIX 03 APIs in support of internet/intranet services

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UNIX 03 Product Standards (1)

- Organized as a hierarchy
- UNIX 03
  - Top-level foundation product standard
  - Four constituent product standards organized by subject area
    - *Internationalized System Interfaces Extended V3*
    - *Commands & Utilities V4*
    - *C Language V2*
    - *Internationalized Terminal Interfaces*

UNIX 03 "*the standard base*"

- There are four constituents to the *base*
  - Internationalized System Interfaces Extended V3
    - A rich set of system interfaces mandating key options in the common specifications
  - Commands and Utilities V4
    - Mandates key options from the common specifications
  - C Language V2
  - Internationalized Terminal Interfaces

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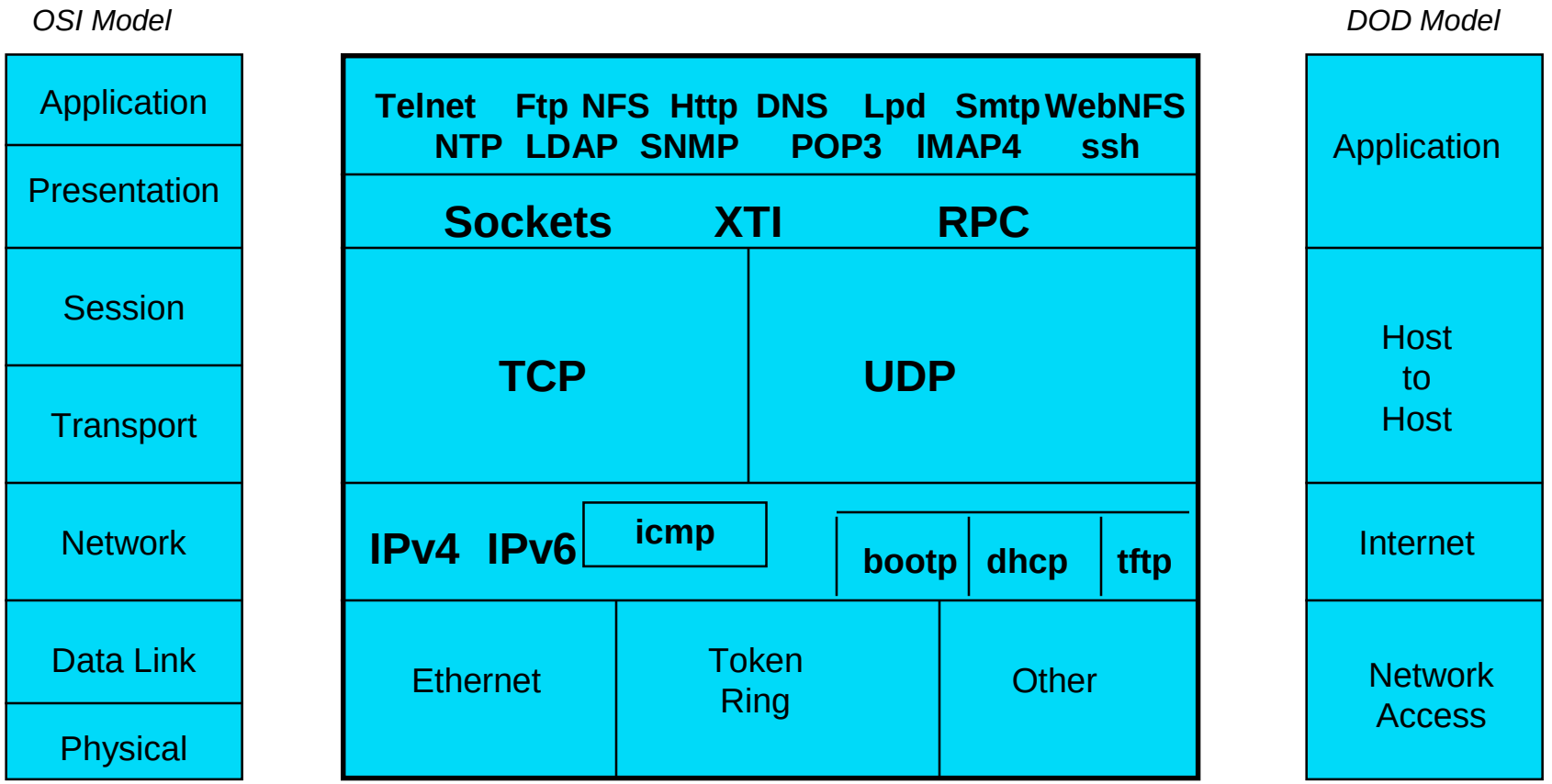
UNIX 03 Server

- Builds on the Base foundation.
- *Captures existing de-facto practice.*
- Includes a *platform-independent* Internet Server Product Standard.
- Additional functionality over existing UNIX 03 Product standard includes:
  - The Internet Protocol Suite, including IPv6.
  - Java Support.
  - Internet capabilities to support network clients.

Java is a trademark of Sun Microsystems Inc.

UNIX 03 Server - Internet Services



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UNIX 03 Certification

- Product Standards
  - http://www.unix.org/unix03.html
- The Open Brand Certification Program
  - http://www.opengroup.org/openbrand/
  - http://www.opengroup.org/openbrand/register/
  - http://www.opengroup.org/openbrand/testing/checklist/

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UNIX 03 Testing

- Certification is backed by an extensive set of tests
- Used by vendors to demonstrate conformance as part of formal certification
- A family of tests available for UNIX 03
  - Known as *Westwood*
  - Modular test suites
  - Covers mandatory features and key options
  - http://www.opengroup.org/testing/info/Westwood_datasheet.html

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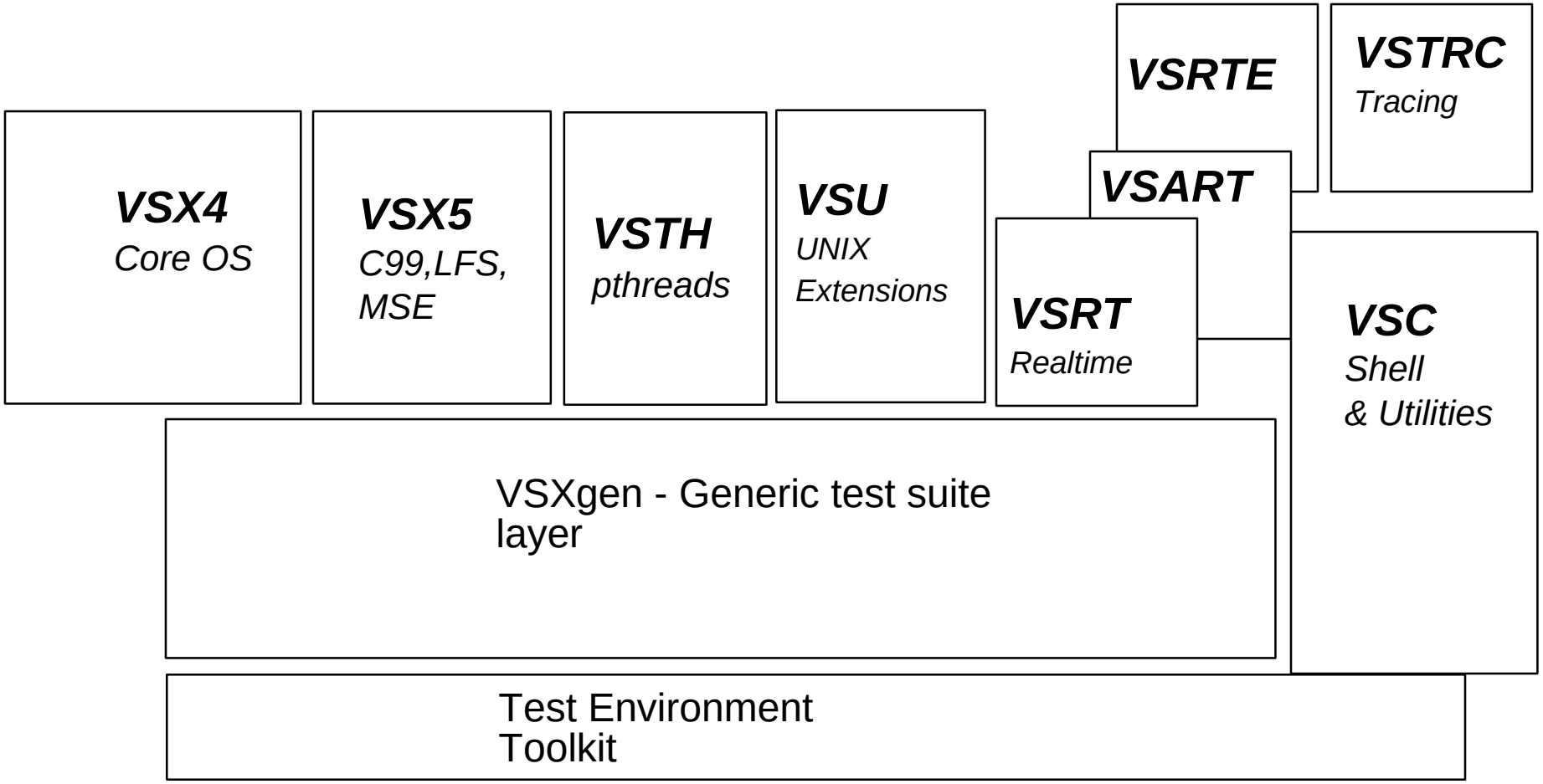
UNIX 03 Test Suites



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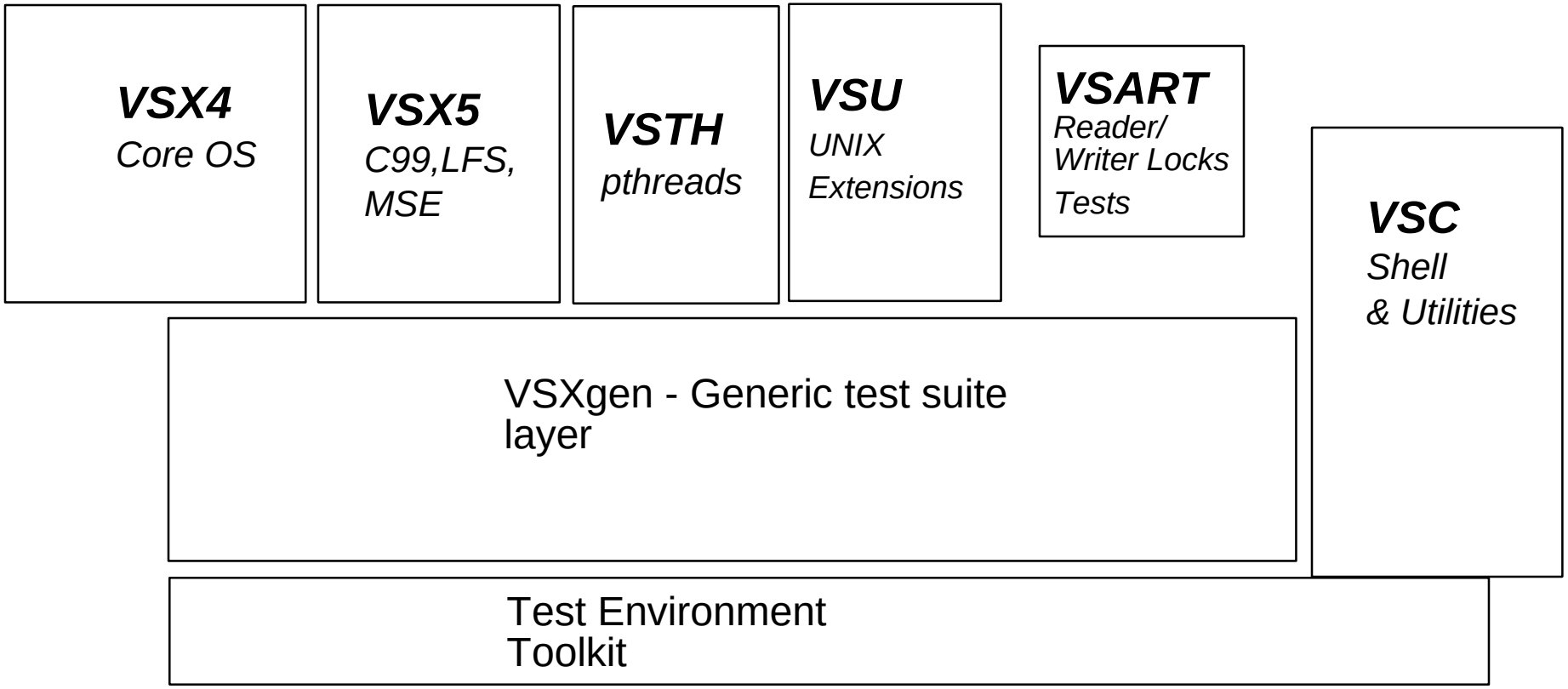
UNIX 03 Test Suites (mandatory)



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