

# Standardizing Test Interfaces

Arjan Kranenburg



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# A Tester's Dream...



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## A Tester's Dream

I have a Dream...

- Testers have various tools to choose and apply the right test techniques
- Testers make test suites for now and the future
- Testers can assess Quality within 1 day
- Project Managers steer on Quality, as much as Time, Costs, and Functionality
- Testers control their test environment

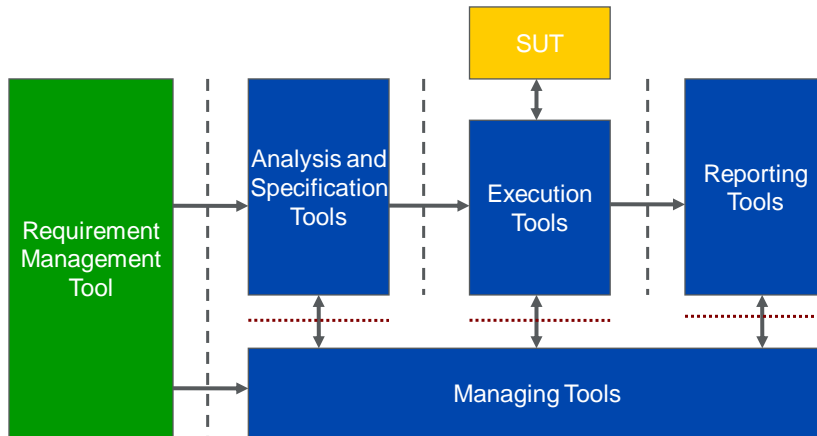


# Standardized Test Interfaces



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## Standardized Test Interfaces - Test Landscape



Standardized Interfaces:  
 - - - - - File Based  
 ..... Command Based

- Tools can focus on their purpose
  - Not all tools need a GUI
  - Not all tools need an executor
  - Not all tools need a nice presentation
- Choose suitable tools
  - Commercial and Open Source
  - Change is easier
- More specific tools, e.g. for Test Techniques
- Enables Off-shoring

### Interface Definitions

- Command Based
    - Managing Interfaces
- `<path_to_tool>/<toolName> <action> [-<param_name> <value>]`

action            e.g. define update run

parameters      e.g. -t(est)g(roupld) -t(est)c(aseld)  
                    -req(uiementld) -dir(ectory) -f(ile)n(ame)

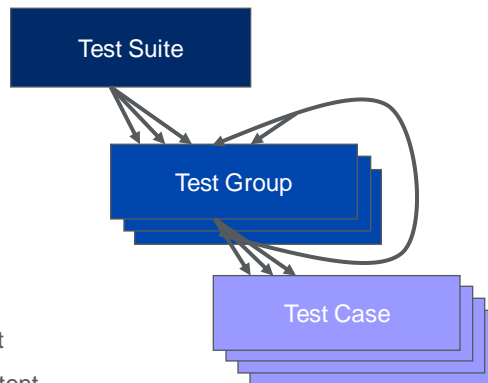
e.g.

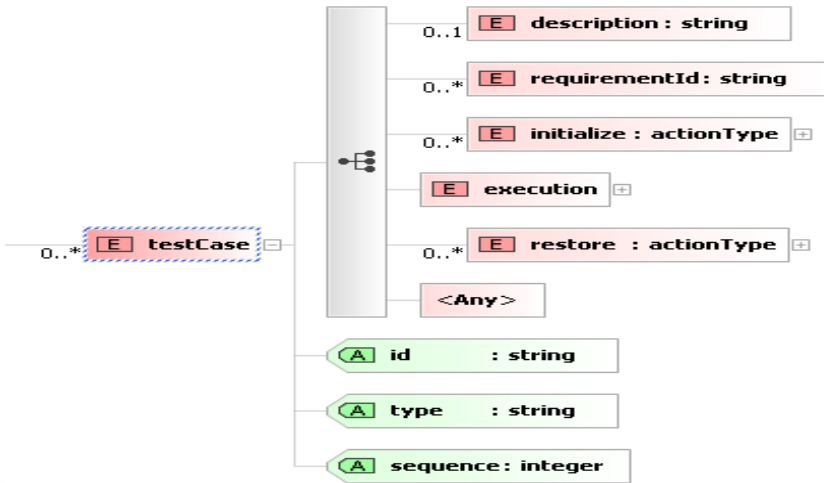
`C:\test\tools\levt-tool.exe define -req req1 -dir C:\test\suite\general`

### Interface Definitions (continued)

- File Based
  - Requirements Interface
  - Test Suite Interface
  - Test Result Interface

- File Structure
- Directories possible
- Version Control possible
- More Test Suites possible
- XML Based
- Header and Body concept
- Standard defines minimal content
- Tools should cope with more content
- Similar for Test Results and Requirements

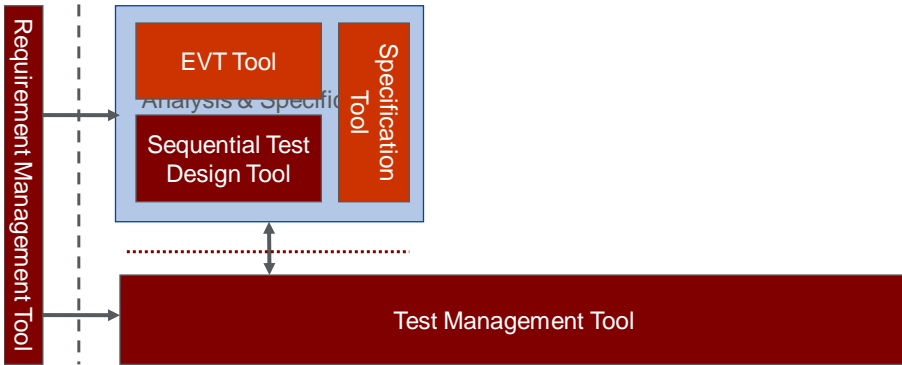




# Possibilities

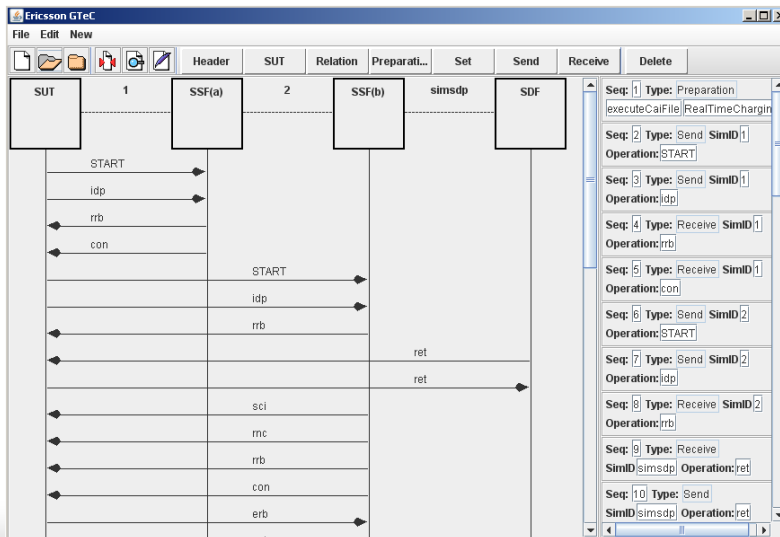


# Possibilities – The Test Landscape (example)

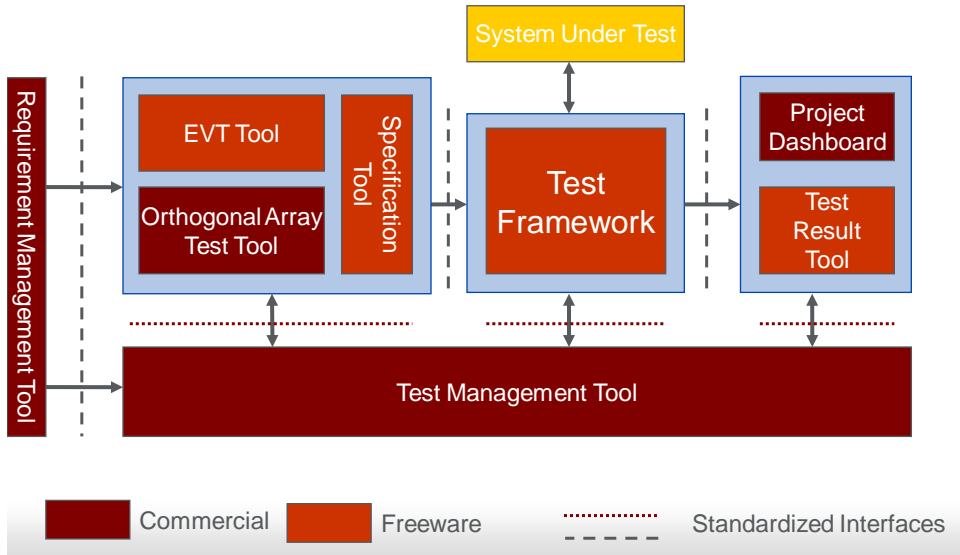


..... Standardized Interfaces

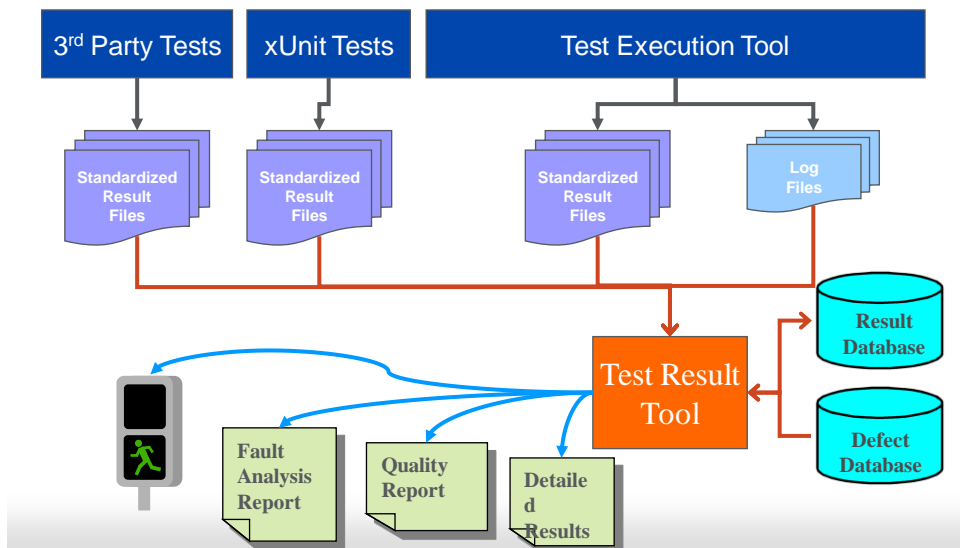
# Graphical Test Case Design Tool



## Possibilities – The Test Landscape (example)



## Possibilities – Quality Reports





# Final Remarks



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## Final Remarks



- <http://www.TestingInterfaces.com>
- Definitions of Interfaces
- API's
- Supporting Tools
- Ideas for New Tools
- Input, Feedback & Co-Development needed



# Questions & Discussion



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# ORDINA. OPGELOST.



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ORDINA N.V.

Ringwade 1

3439 LM Nieuwegein

Tel: +31 30 6637000

Fax: +31 30 6637099

[www.ordina.nl](http://www.ordina.nl)

e-mail: [info@ordina.nl](mailto:info@ordina.nl)