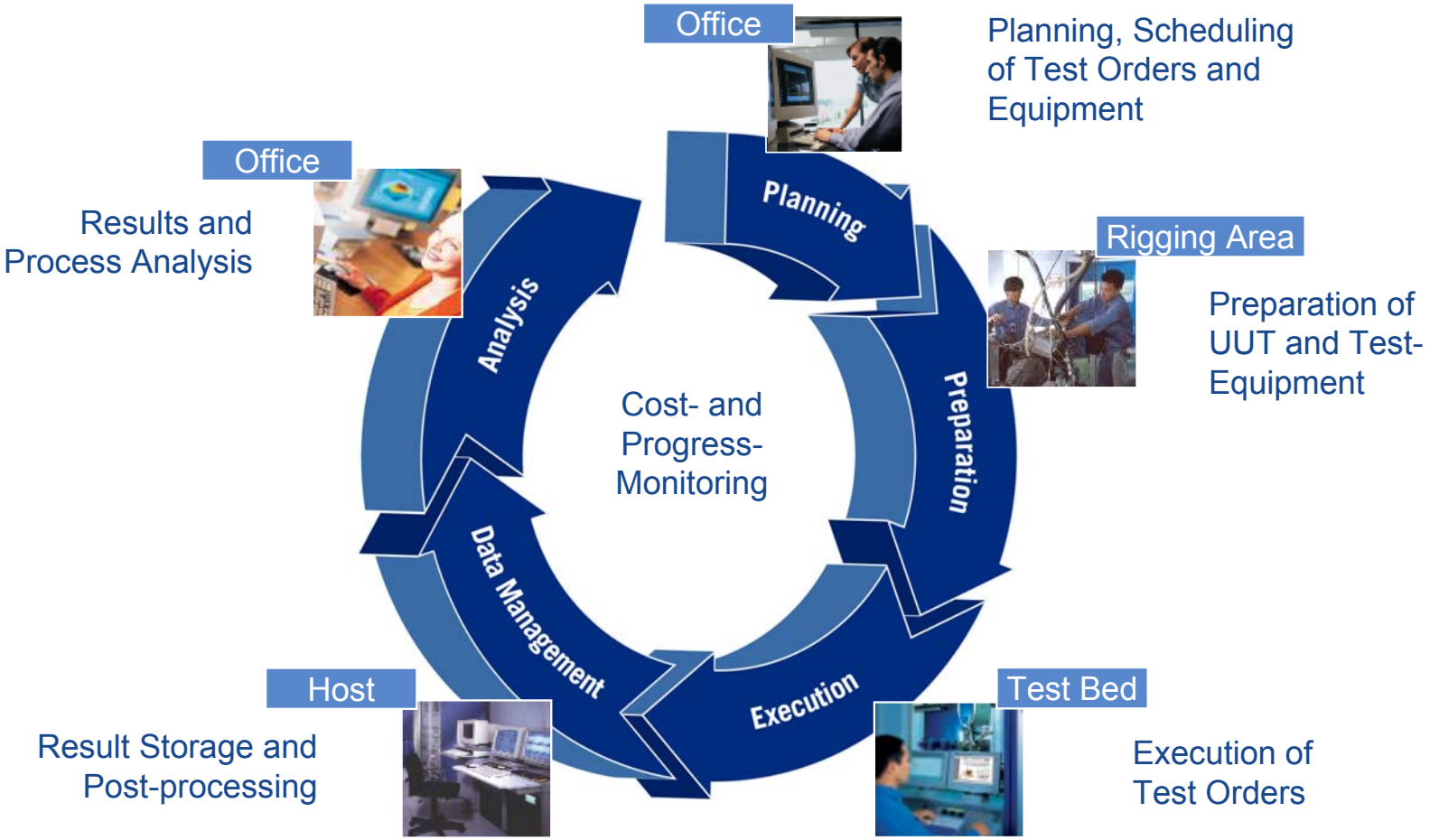
TestFactory Management Suite™

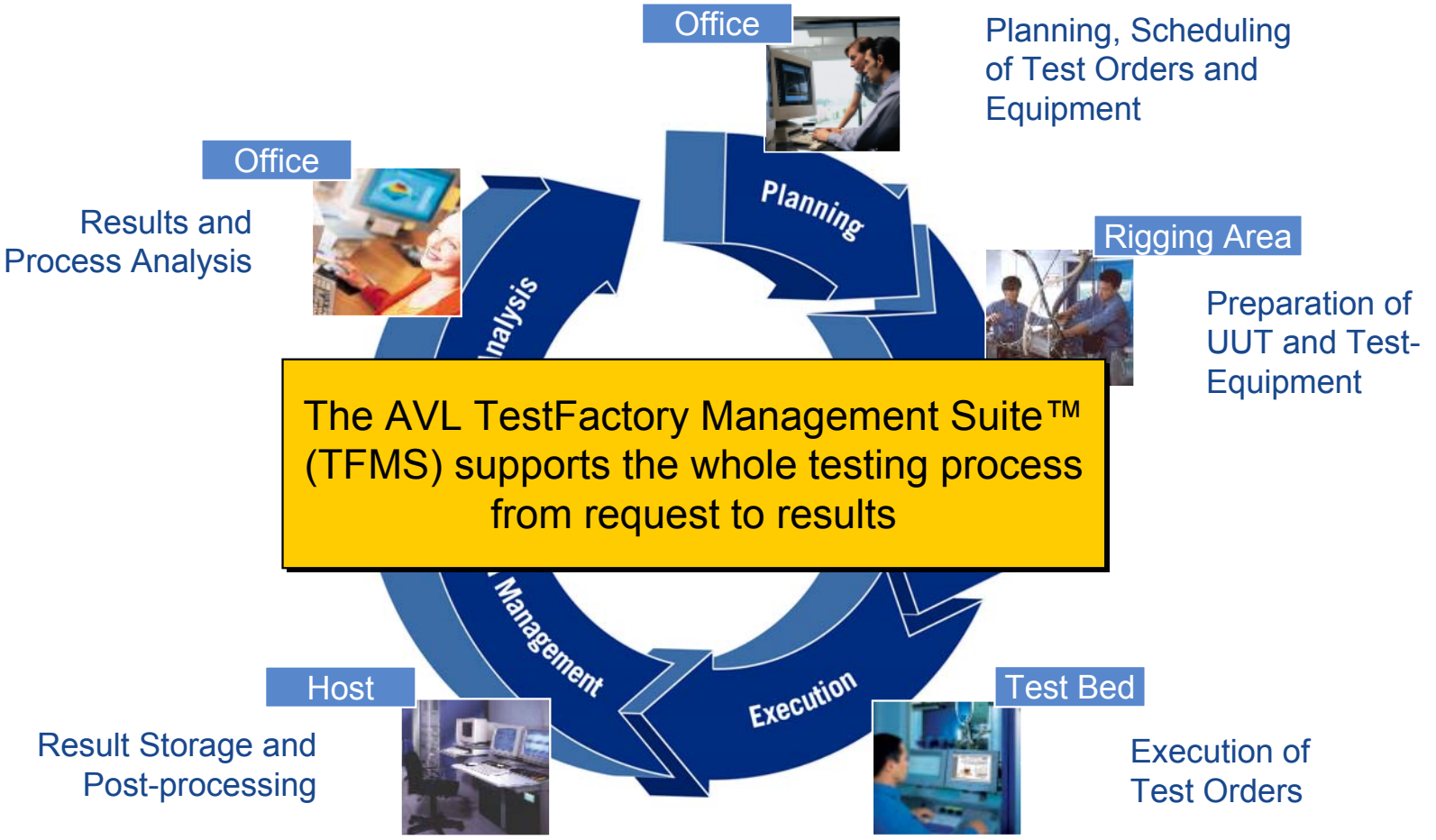
Test Field Process Manangement for Higher Efficiency

Gerald Sammer, May 2008

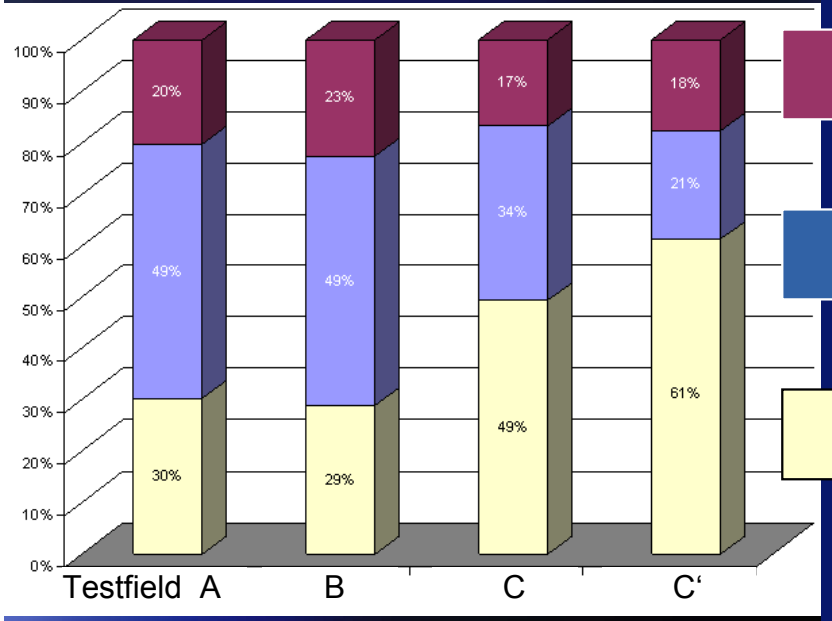
Productivity boost for a test facility: Looking at the desired process



Productivity boost for a test facility: Looking at the desired process



Efficiency Improvements



AVL study: Test field utilization in Germany

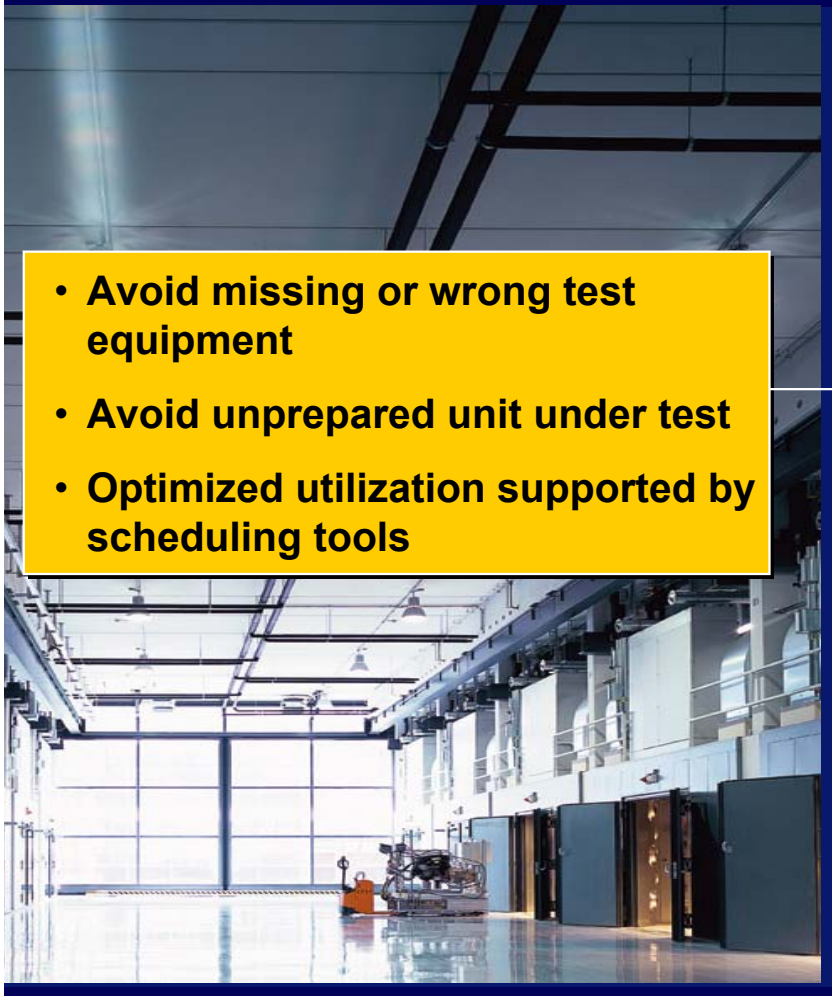
Organizational hang-ups and unproductive operation

UUT- or equipment fault

Productive testing

At least 20% of the available capacity can be affected by using AVL TestFactory Management Suite™

Benefits of the TestFactory Management Suite™

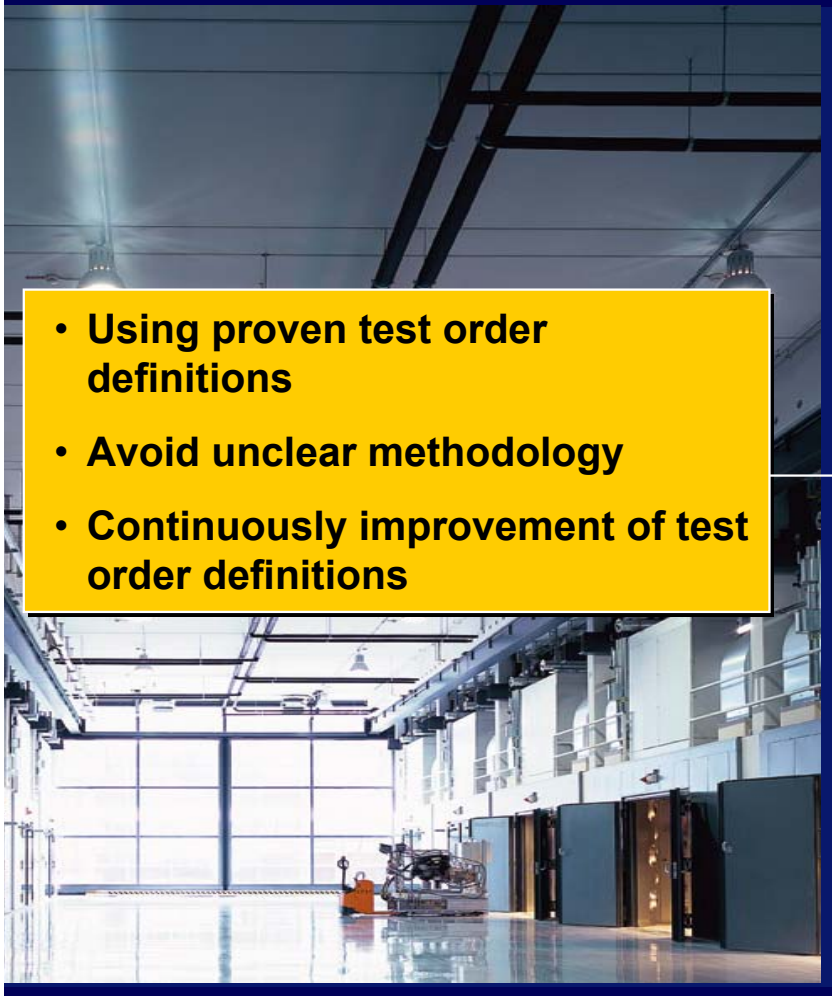


- Avoid missing or wrong test equipment
- Avoid unprepared unit under test
- Optimized utilization supported by scheduling tools

TFMS supports in ...

- **reducing down times of test beds**
- avoiding unnecessary test re-runs
- optimizing resource utilization
- providing process performance indicators for comparing “to be” with “as is” processes

Benefits of the TestFactory Management Suite™



- Using proven test order definitions
- Avoid unclear methodology
- Continuously improvement of test order definitions

TFMS supports in ...

- reducing down times of test beds
- avoiding unnecessary test re-runs
- optimizing resource utilization
- providing process performance indicators for comparing “to be” with “as is” processes

Benefits of the TestFactory Management Suite™

- **Optimized utilization supported by scheduling tools**
- **Integration of all relevant data sources into the scheduler tool**

TFMS supports in ...

- reducing down times of test beds
- avoiding unnecessary test re-runs
- **optimizing resource utilization**
- providing process performance indicators for comparing “to be” with “as is” processes

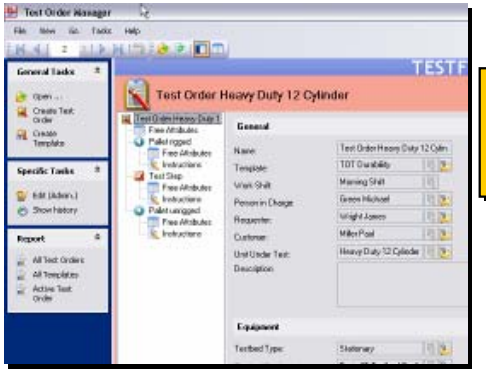
Benefits of the TestFactory Management Suite™

- Categorization of operational data
- Combined reports on planned and actual data

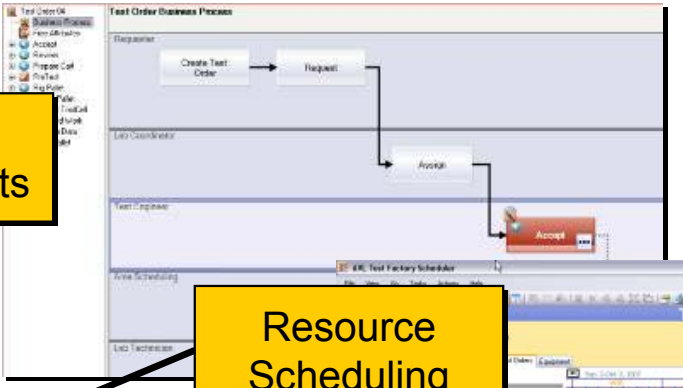
TFMS supports in ...

- reducing down times of test beds
- avoiding unnecessary test re-runs
- optimizing resource utilization
- providing process performance indicators for comparing “to be” with “as is” processes

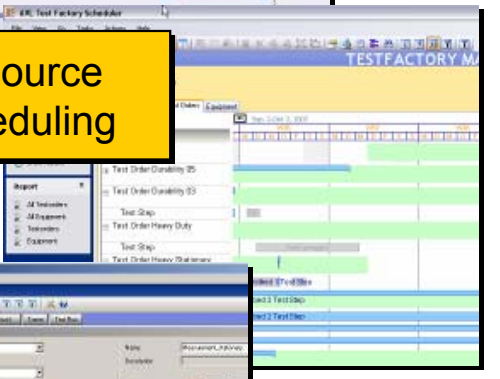
Full Graphical Support for all Testing Tasks
TFMS together with PUMA Open



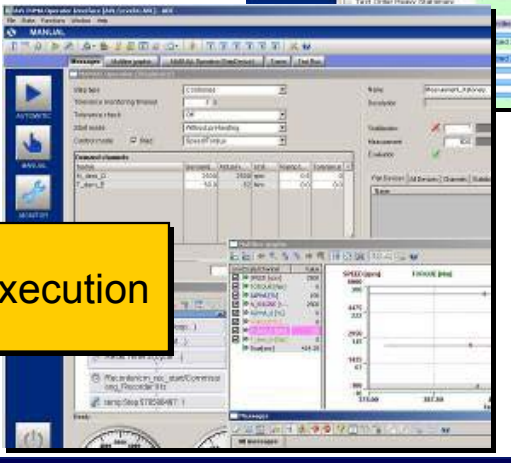
Manage Test Requests



Resource Scheduling

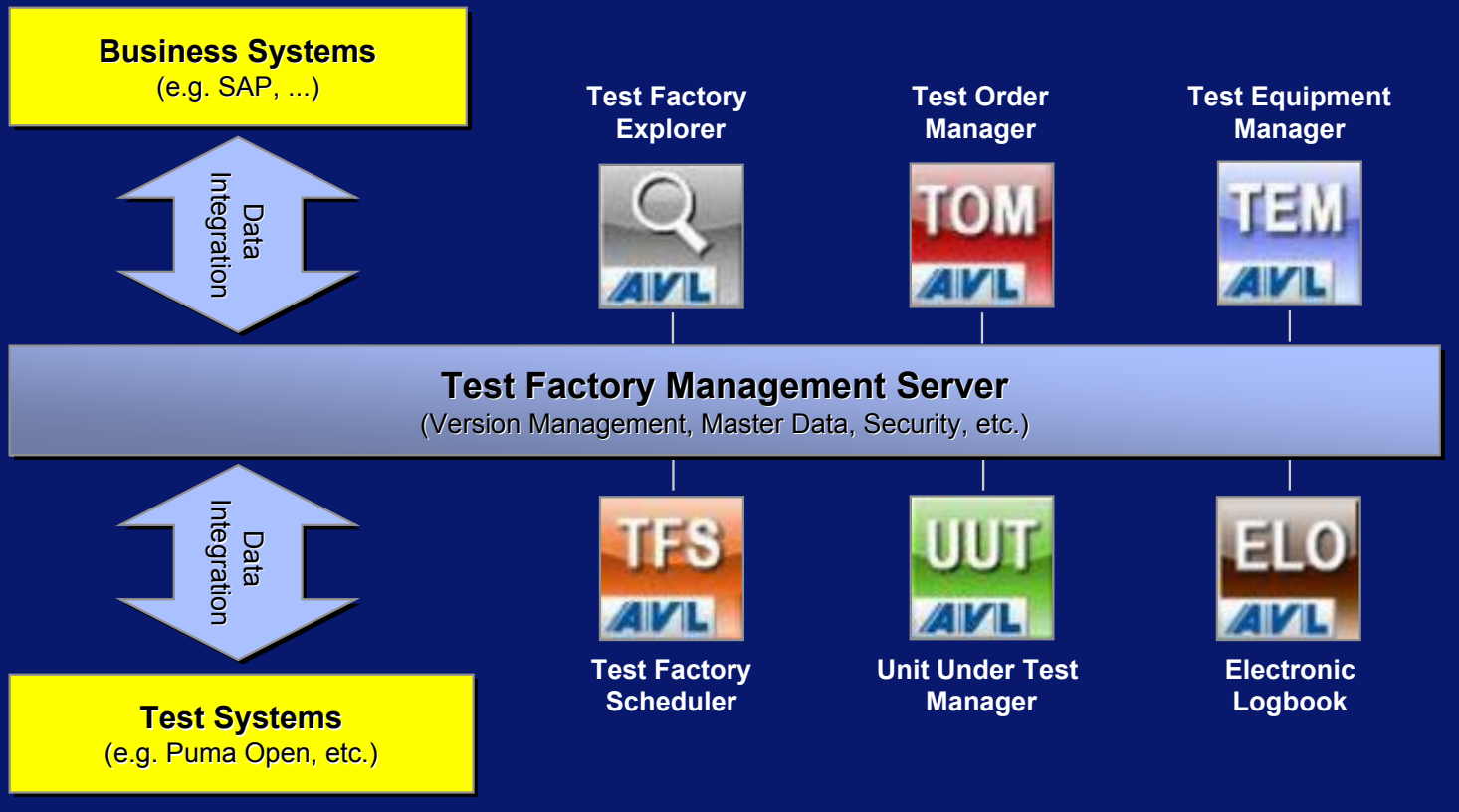


Efficiency Evaluation

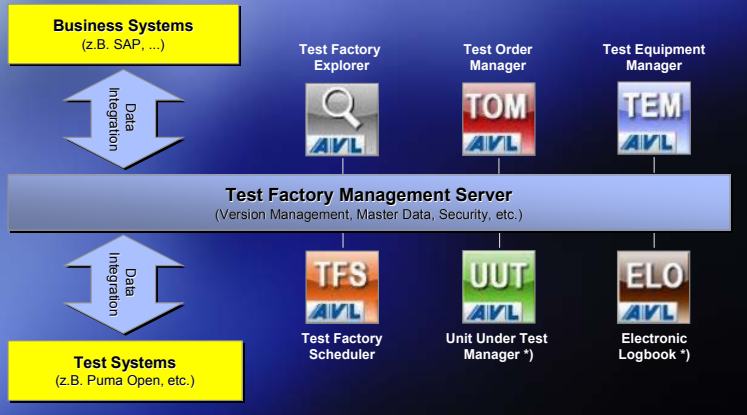


Test Execution

TestFactory Management Suite™ Product Structure

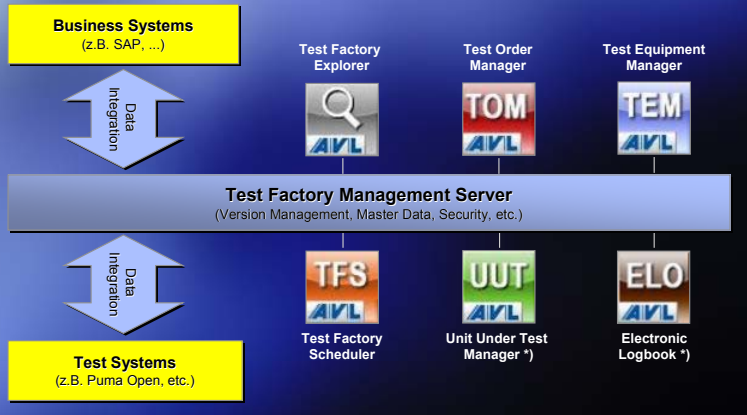


TestFactory Management Suite™ Product Structure



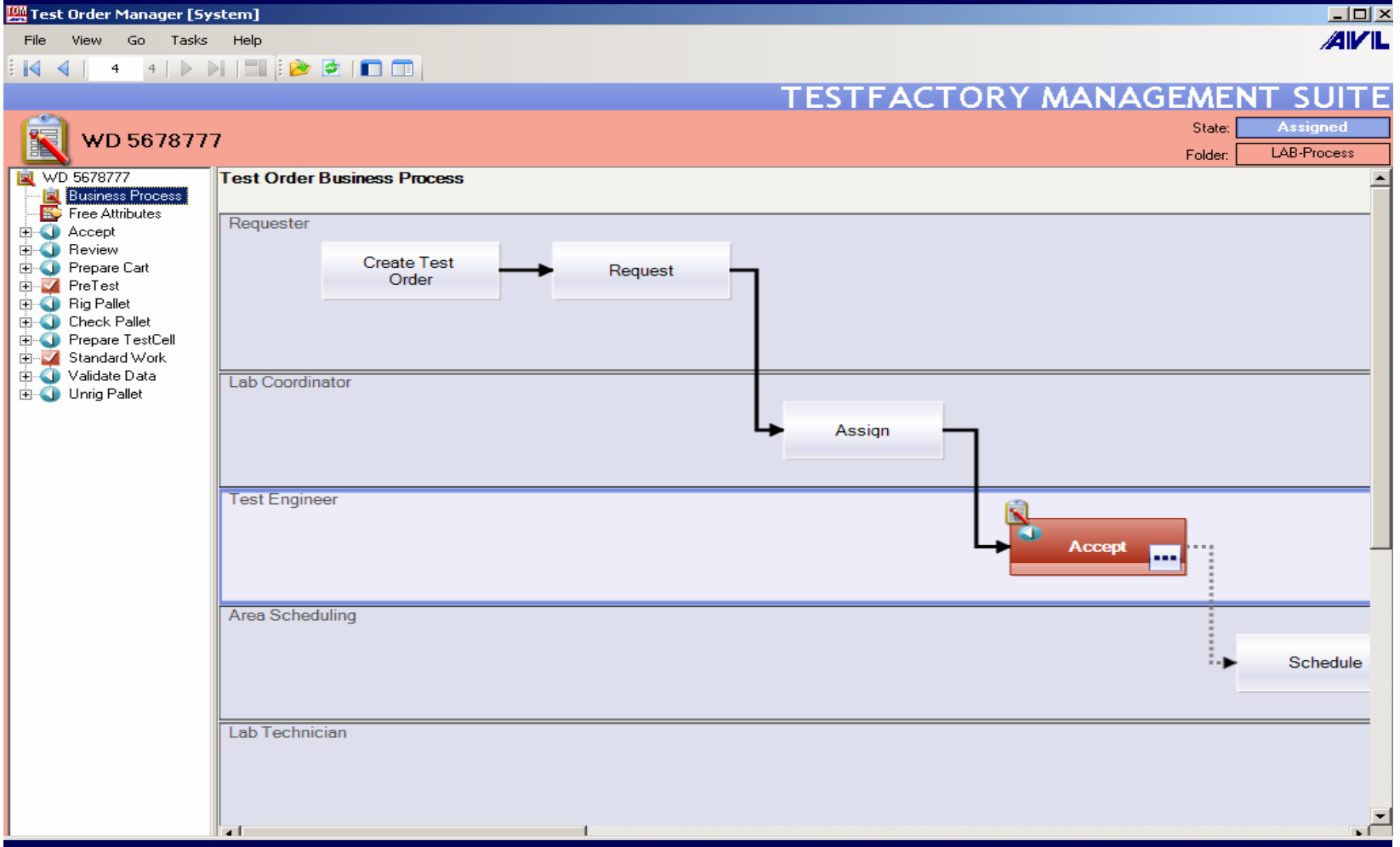
- **Test Order Manager**
  Application for processing test requests, providing and tracking all relevant data
- **Test Equipment Manager**
  Managing all test equipment, test beds and pallets including calibration and maintenance
- **Test Factory Scheduler**
  Supports the planning of test order and test equipment

TestFactory Management Suite™ Product Structure



- **Unit Under Test Manager**
  For handling the technical data of the test units
- **Electronic Logbook**
  For capturing and analyzing actual day-to-day data and providing performance indicators
- **Test Factory Explorer**
  Central navigator with user oriented data presentation and filter / search functionality

Test Order Manager - TOM



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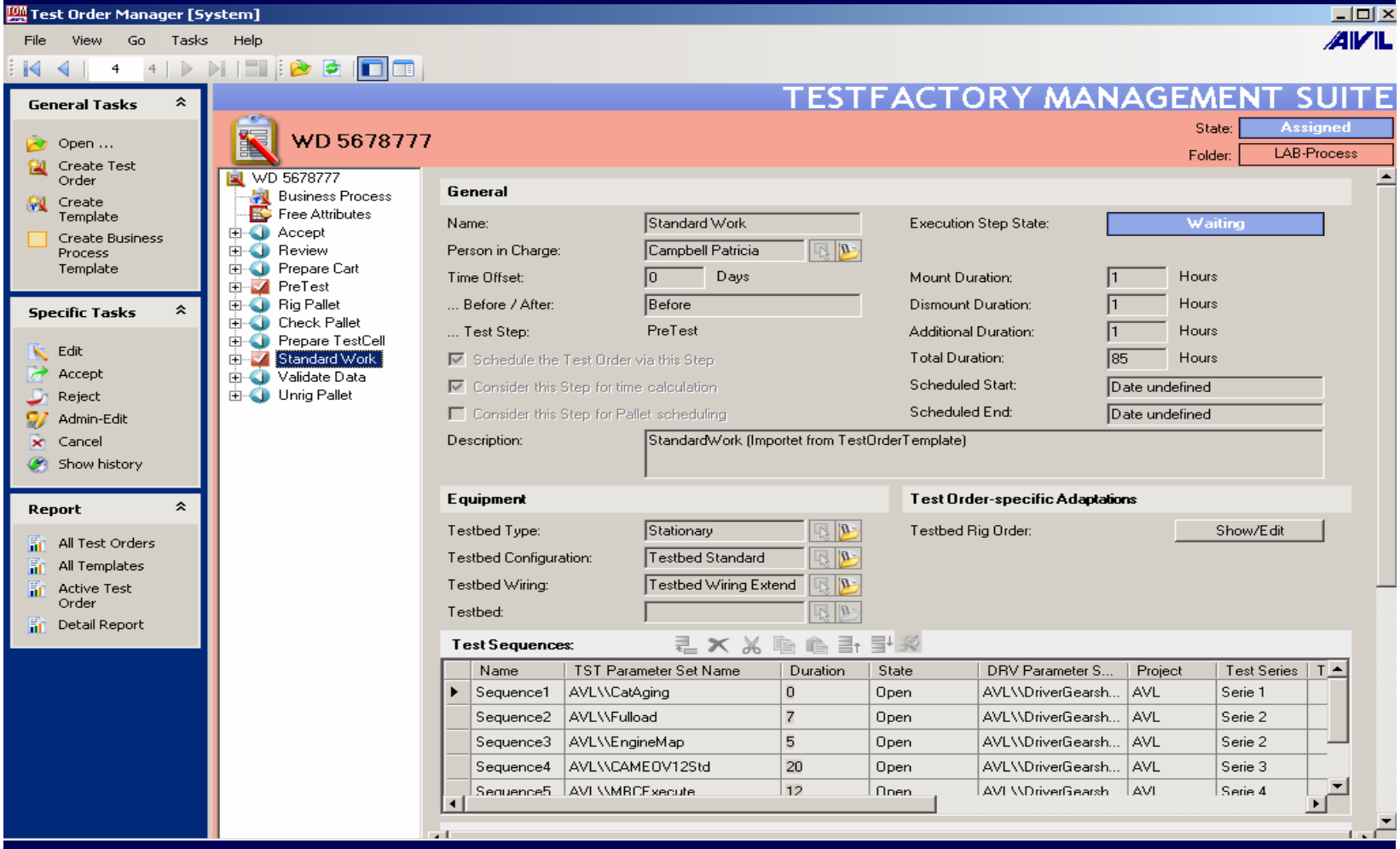
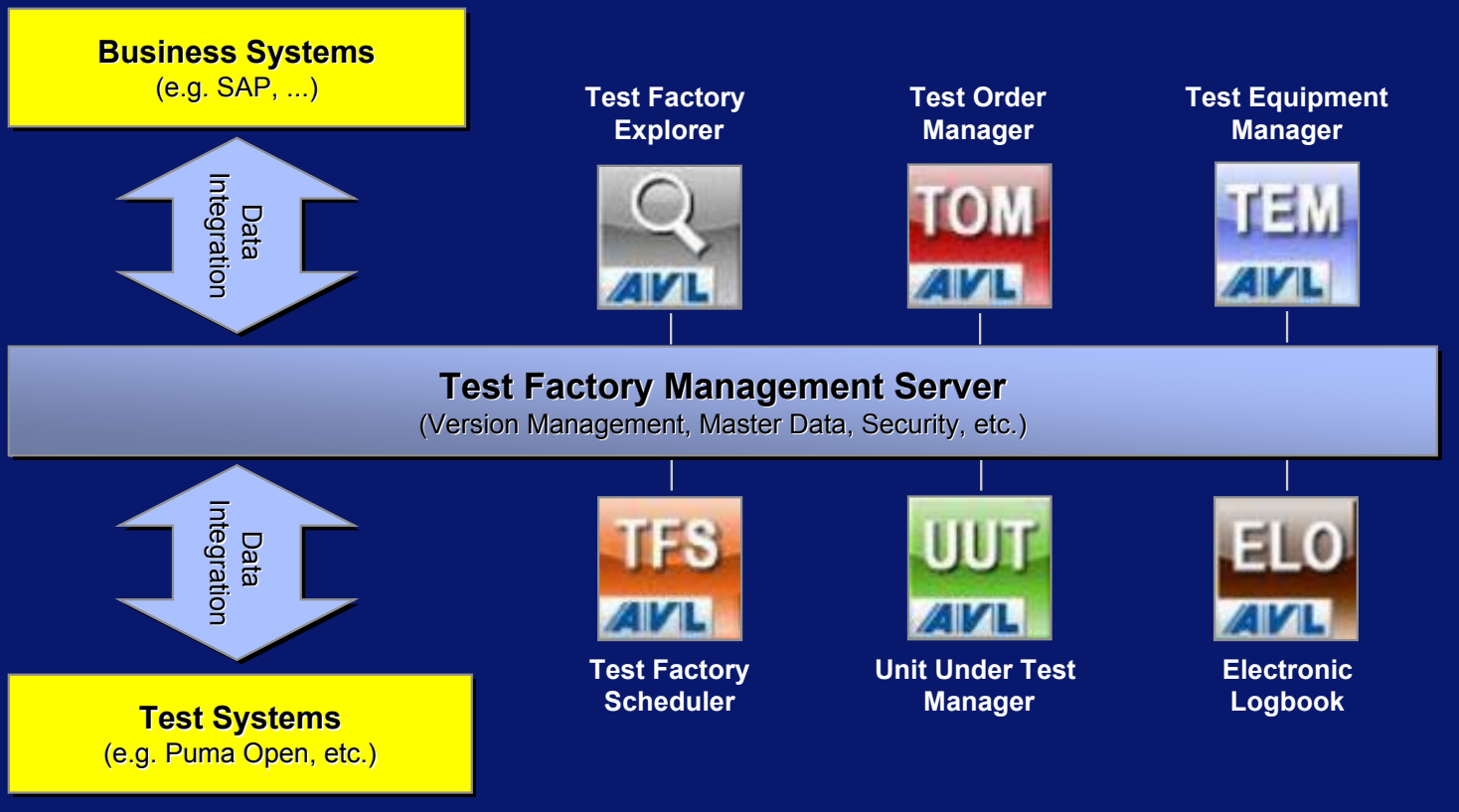


Release Roadmap

- TFMS 1.0: available
- TFMS 1.0.1: available
- TFMS 1.1: Q3 2008
- TFMS 1.2: Q2 2009

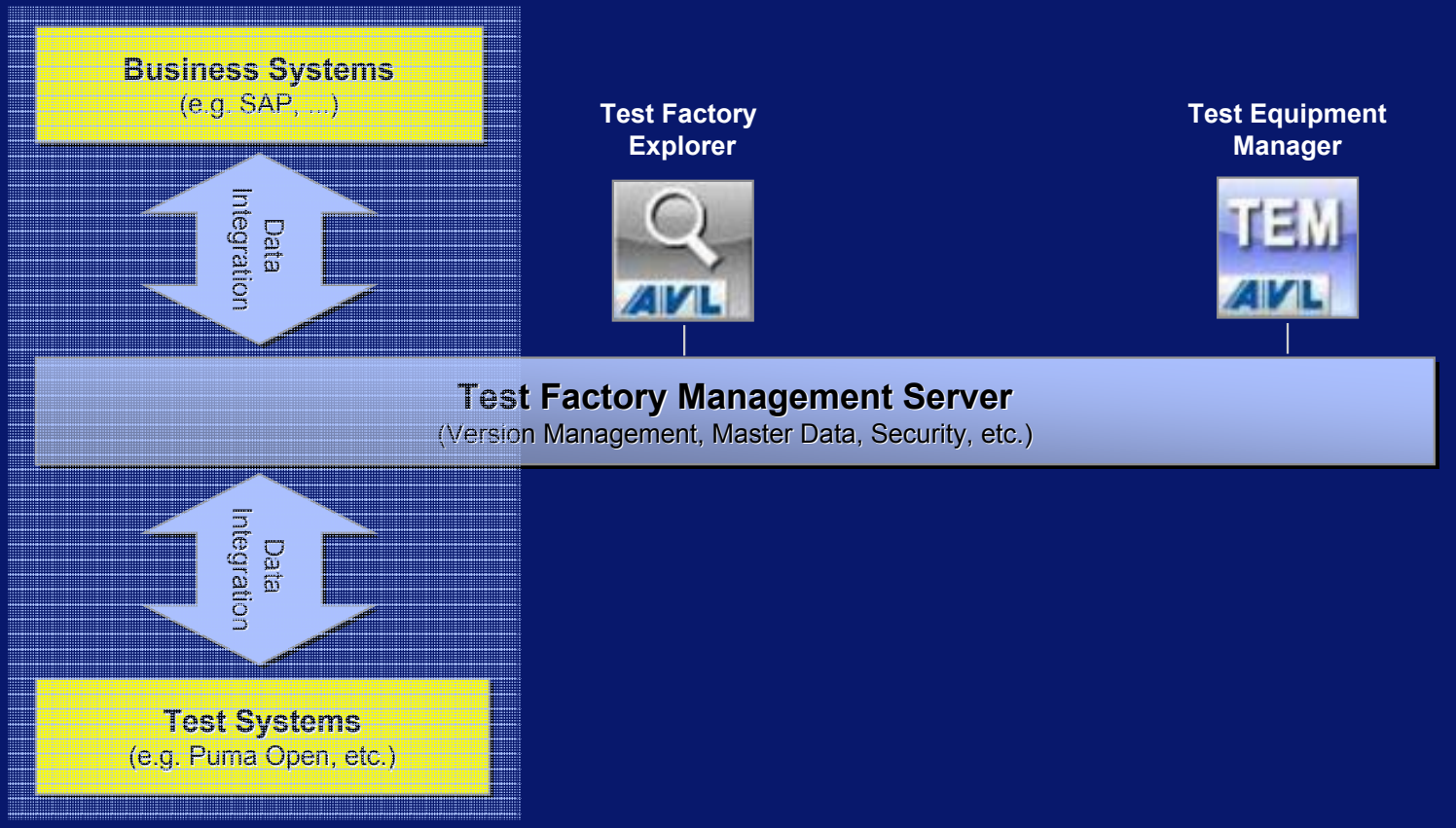
TFMS Implementation Scenarios
Full Scope



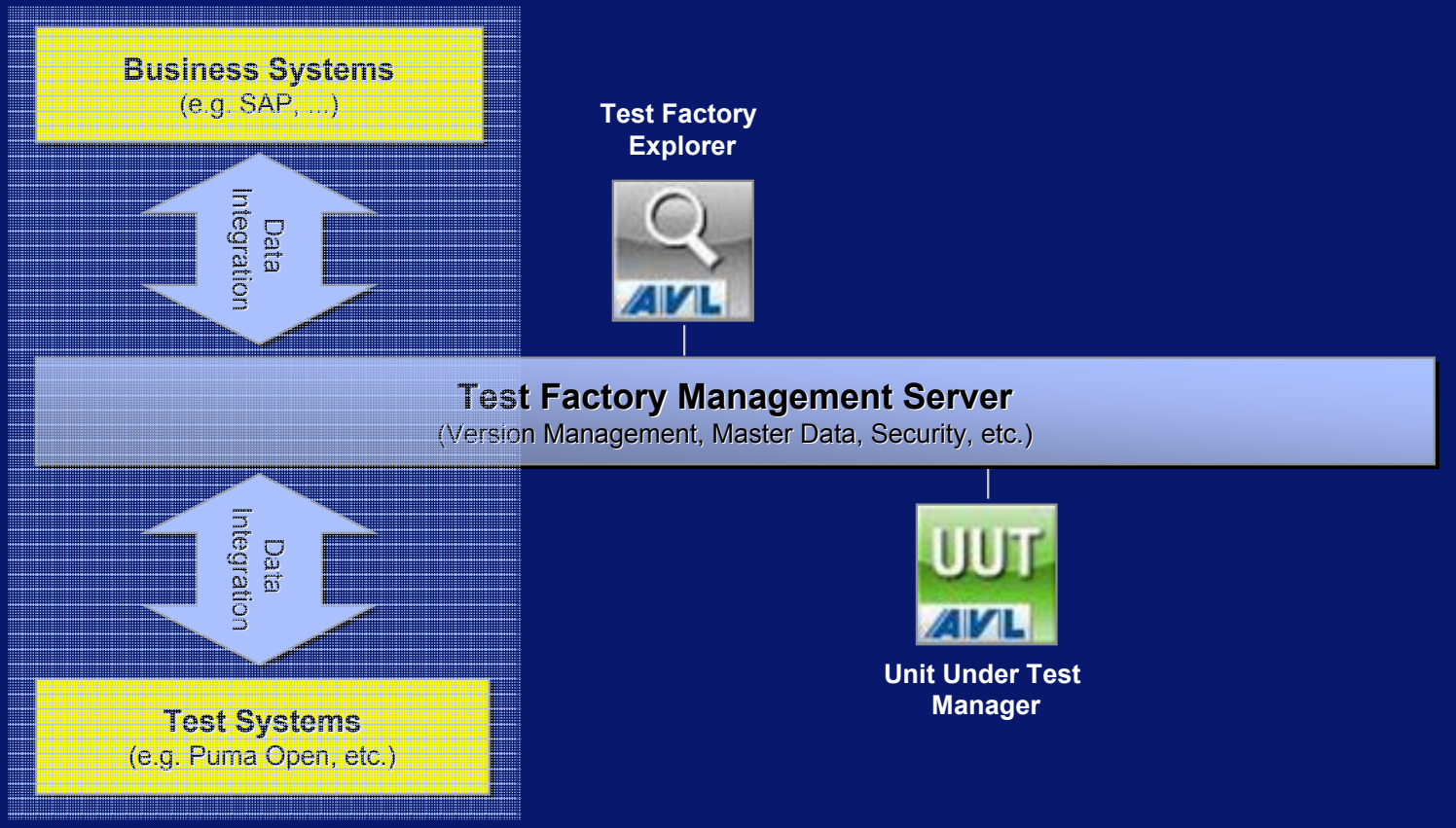
TFMS Implementation Scenarios
Standalone without external Business Systems

TFMS Implementation Scenarios
Standalone

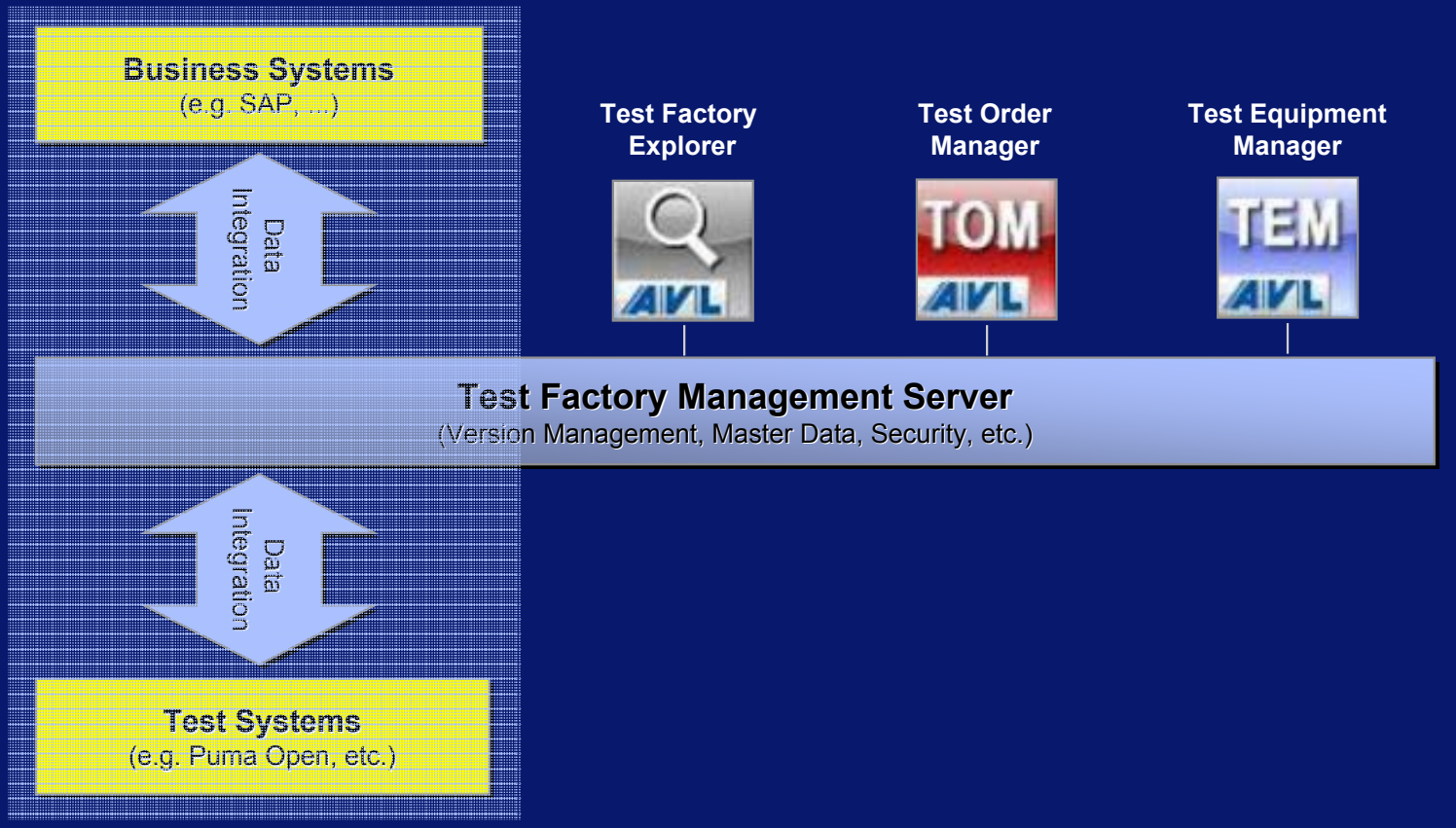
TFMS Implementation Scenarios
TEM Only



TFMS Implementation Scenarios
UUT Only



TFMS Implementation Scenarios
TOM Only without Scheduling



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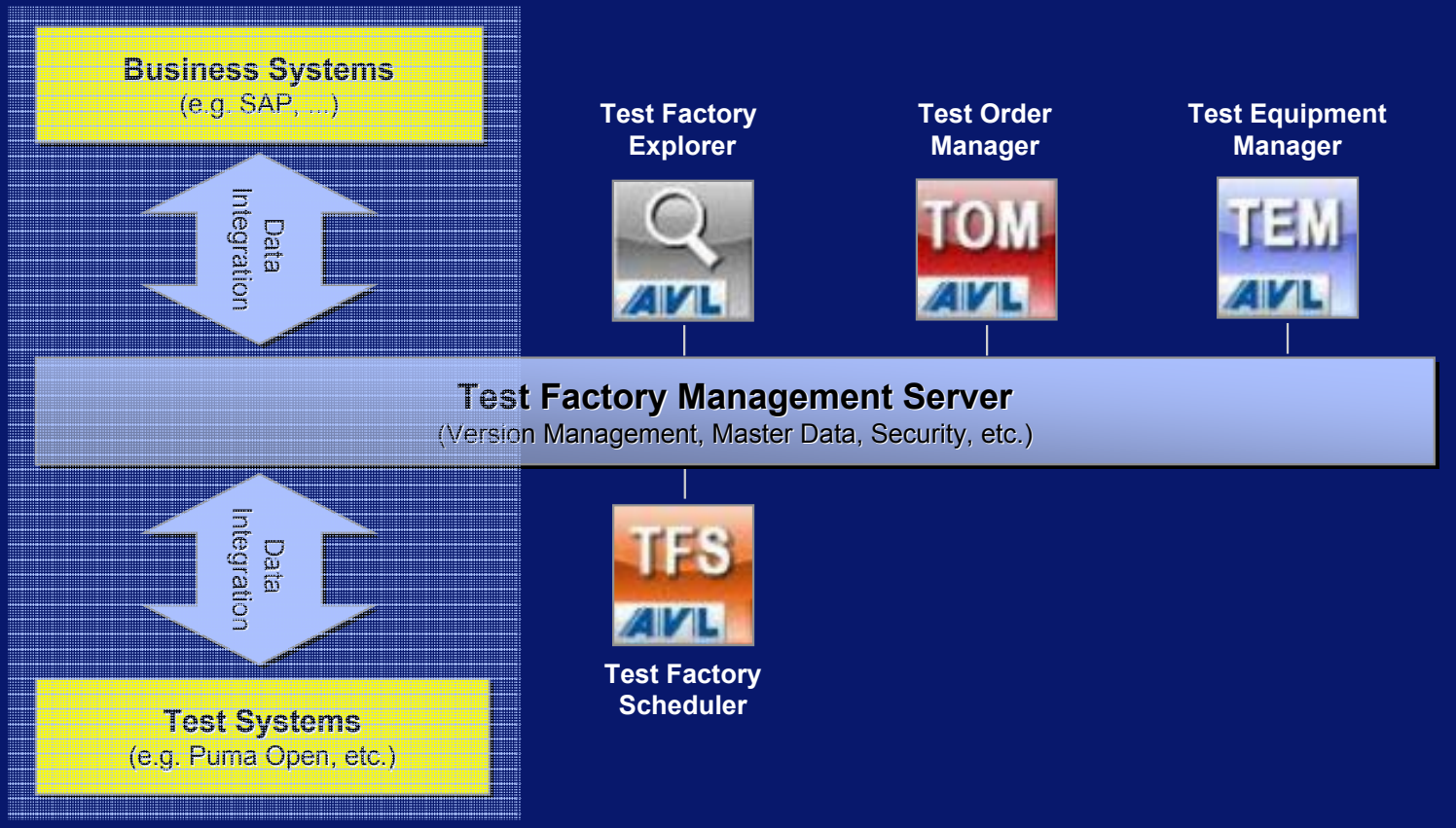

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