

IPSL Services for WfM

**Intel Corporation
September 30, 1997**



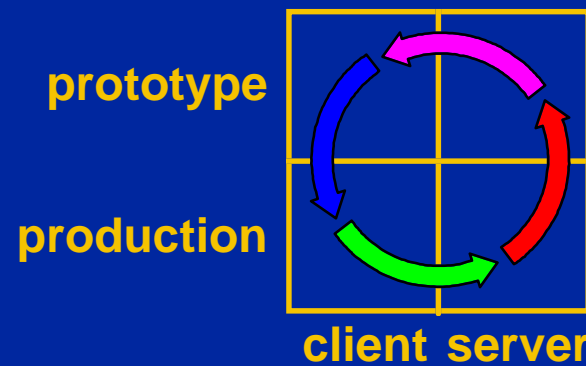
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Agenda

- **WfM Baseline Testing**
- **Testing Logistics**
- **Baseline Test Descriptions**

WfM Baseline Testing Objectives

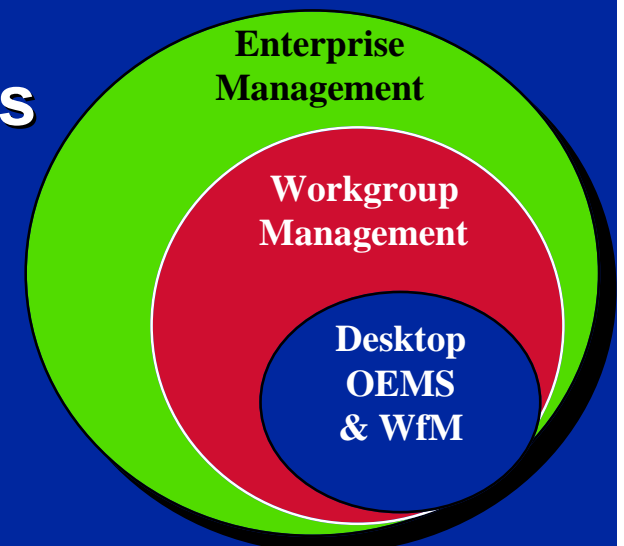
- Accelerate time to market
 - ◆ Management Applications
 - ◆ Managed PC's & Network PC's
- Expanding base of compliance tests
- Provide for interoperability testing



WfM Baseline Testing

Planned evolution

- Latest WfM specification
- New test suite releases as needed
 - ◆ Crisis management and issue resolution
 - ◆ Improved compliance test coverage
 - ◆ Updated interoperability tests
 - ◆ New management applications
 - ◆ New server & client hardware



WfM Baseline Testing

Demand Creation

- Intel working with Corporate IT
 - ◆ Educate on benefits of WfM Baseline
 - ◆ Immediate TCO reductions
 - ◆ OEM builds to the baseline
 - ◆ Need to build installed base for future benefits
 - ◆ Inform on WfM Baseline testing
 - ◆ Asking about plans now
 - ◆ Specifying WfM enabled shortly



WfM Baseline Testing

ISV Participation

- **Client interoperates with key management applications**
 - ◆ **Several slots for commercial applications**
 - ◆ **Selection criteria:**
 - ◆ **Market leading solutions**
 - ◆ **Use WfM capabilities of managed clients**
 - ◆ **Support testing in IPSL with S/W, test suites, escalation support**

Agenda

- WfM Baseline Testing
- Testing Logistics
- Baseline Test Descriptions

Testing Logistics

How to Participate

- **Client OEM attends workshop or submits system**
- **Intel tests system, issues report**
 - ◆ **Overall pass/fail**
 - ◆ **Individual test pass/fail/not implemented**
 - ◆ **Non-promotional, test results remain confidential**



Testing Logistics

Test Venues

- **Workshops**
 - ◆ Scheduled every 3 - 6 months
- **IPSL in-lab testing**
 - ◆ Fee schedule under development
 - ◆ Hard test cost recovery only
- **Third-party testing**
 - ◆ Option for the future

Agenda

- WfM Baseline testing
- Testing Logistics
- **Baseline Test Descriptions**

Baseline Test Descriptions

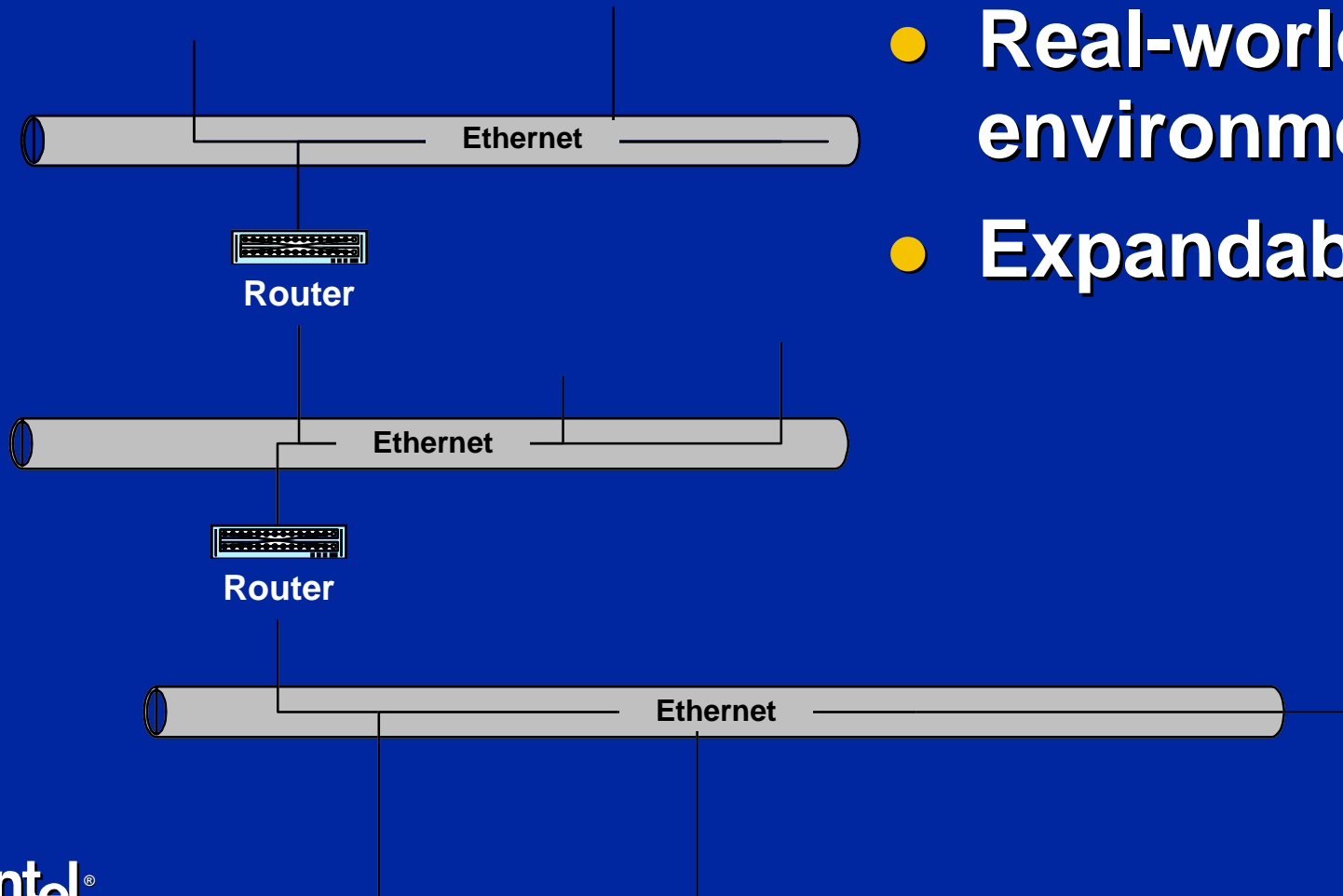
Guidelines

- **WfM Baseline testing comprises**
 - ◆ **Compliance tests**
 - ◆ **Interoperability tests**
 - ◆ **Simulated real-world network configuration**
- **High level test philosophy**
 - ◆ **Presence and basic functionality**
 - ◆ **No quality checks**
 - ◆ **Underlying layers not tested**

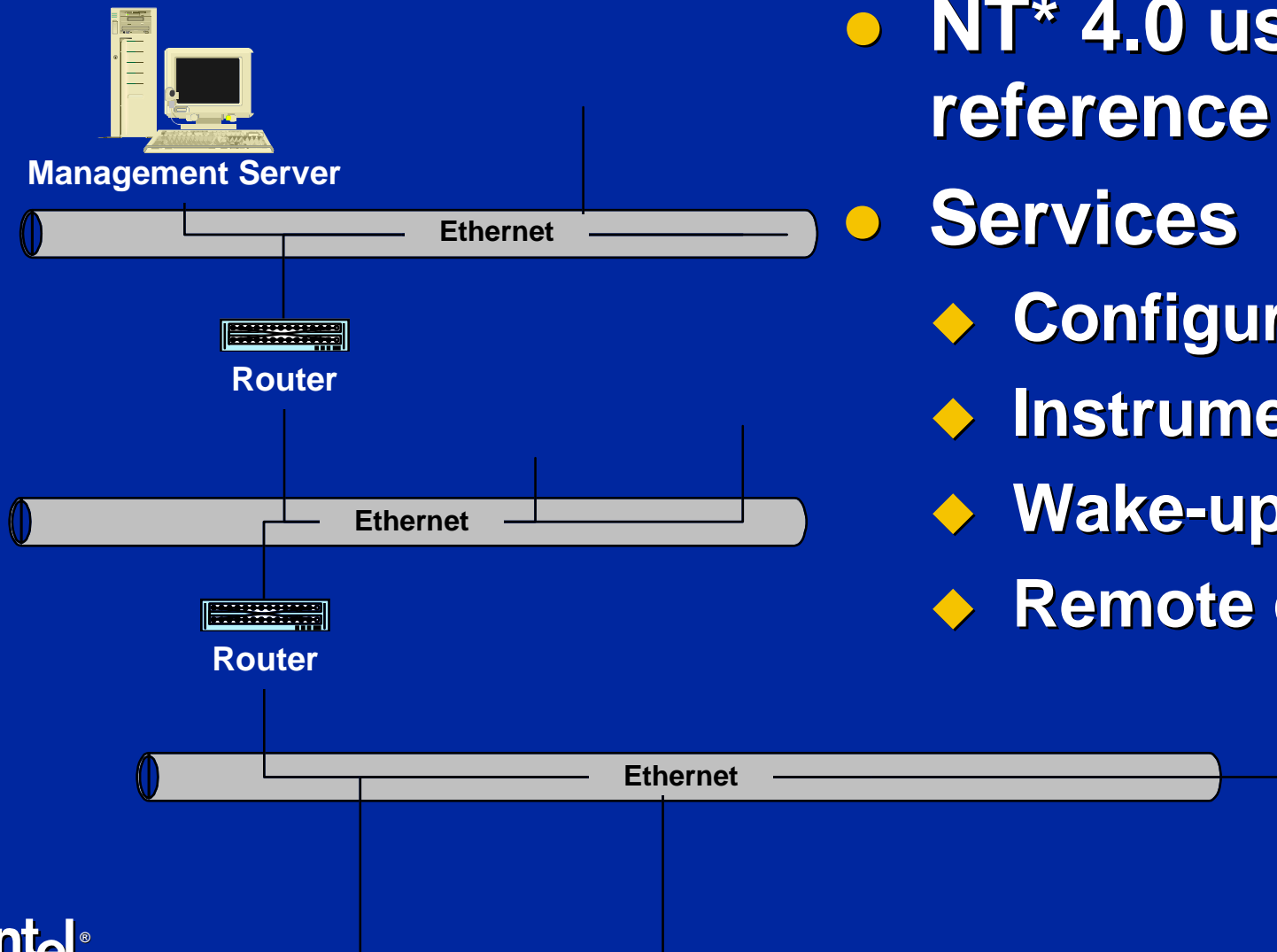


IPSL WfM Test Network

- IT model
- Real-world test environment
- Expandable

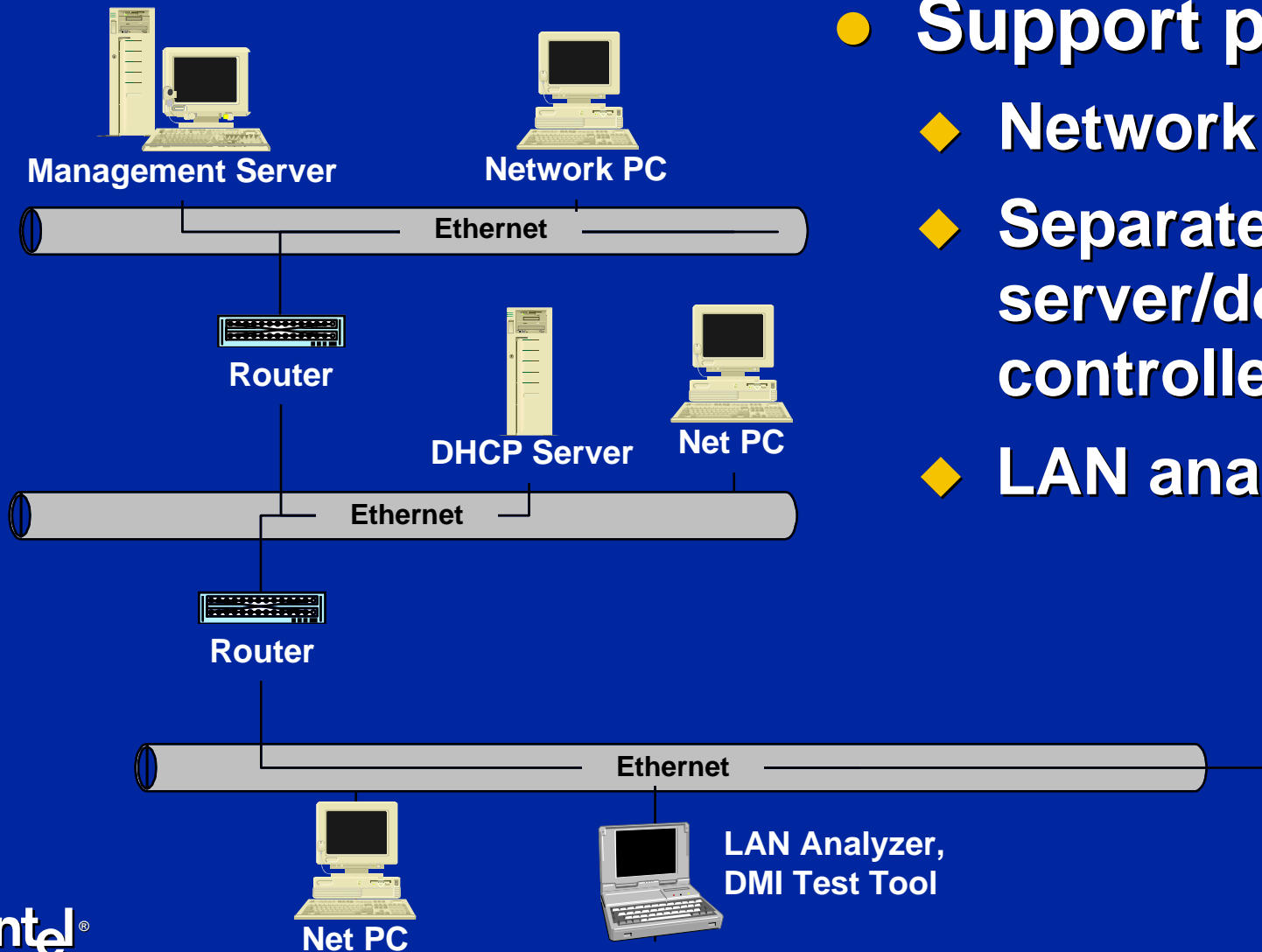


IPSL WfM Test Network



- NT* 4.0 used as reference server
- Services
 - ◆ Configuration
 - ◆ Instrumentation
 - ◆ Wake-up
 - ◆ Remote control

IPSL WfM Test Network

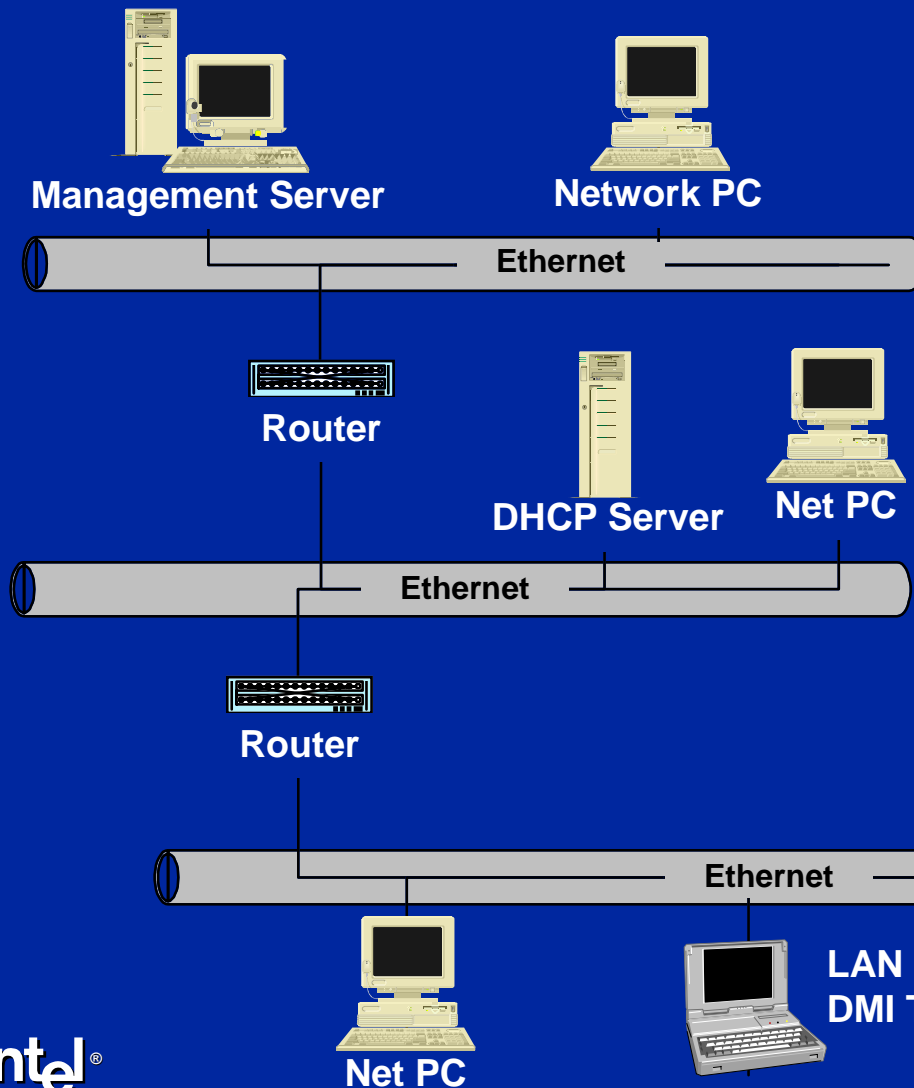


- Support platforms
 - ◆ Network PCs
 - ◆ Separate DHCP server/domain controller
 - ◆ LAN analyzer



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IPSL WfM Test Network



- Dedicated to WfM
- Compliance
- Interoperability
- Real-world network

Your System Here



Client System Under Test



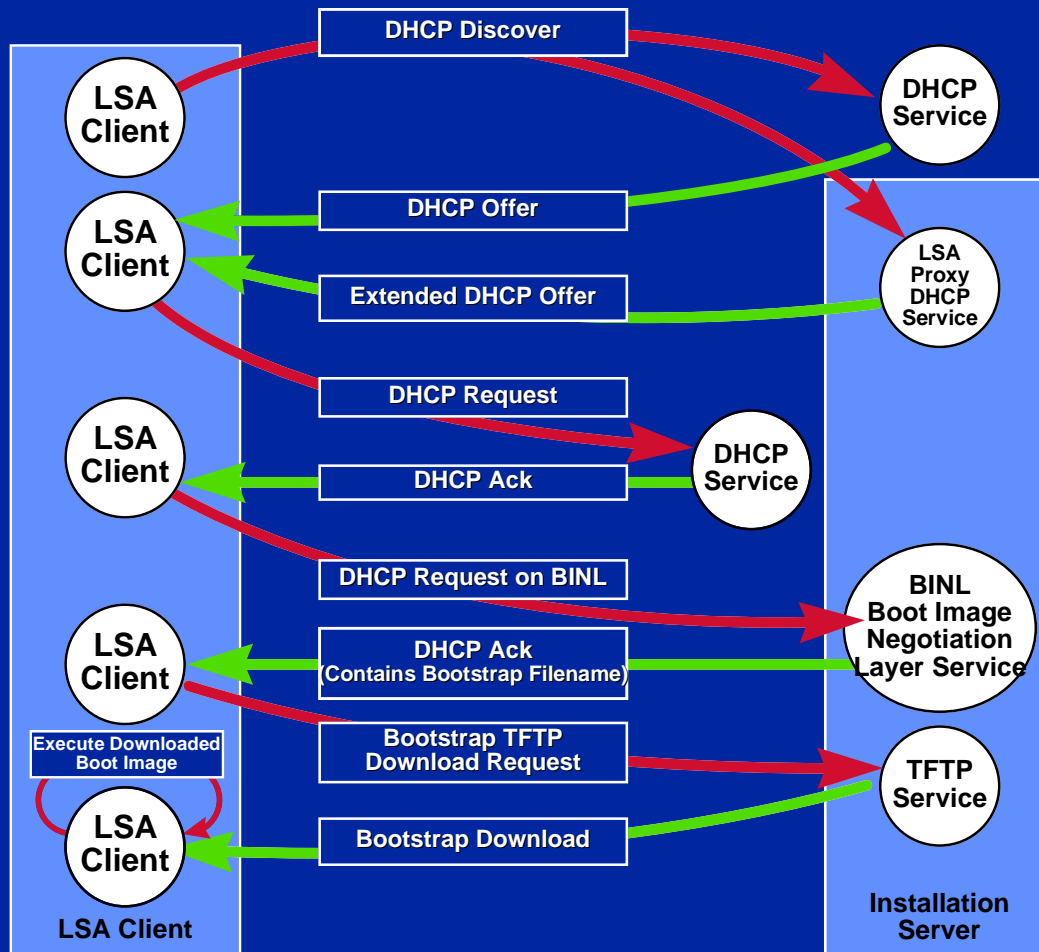
Baseline Test Descriptions

Compliance Testing

- **WfM Baseline 1.1**
 - ◆ Remote new system setup (PXE)
 - ◆ Instrumentation (DMI 2.0)
 - ◆ Remote wake-up (MAC address based)
 - ◆ Power management

Baseline Test Descriptions

Remote New System Set-Up



- PXE features

- ◆ DHCP

- ◆ TFTP

- Functional new system setup

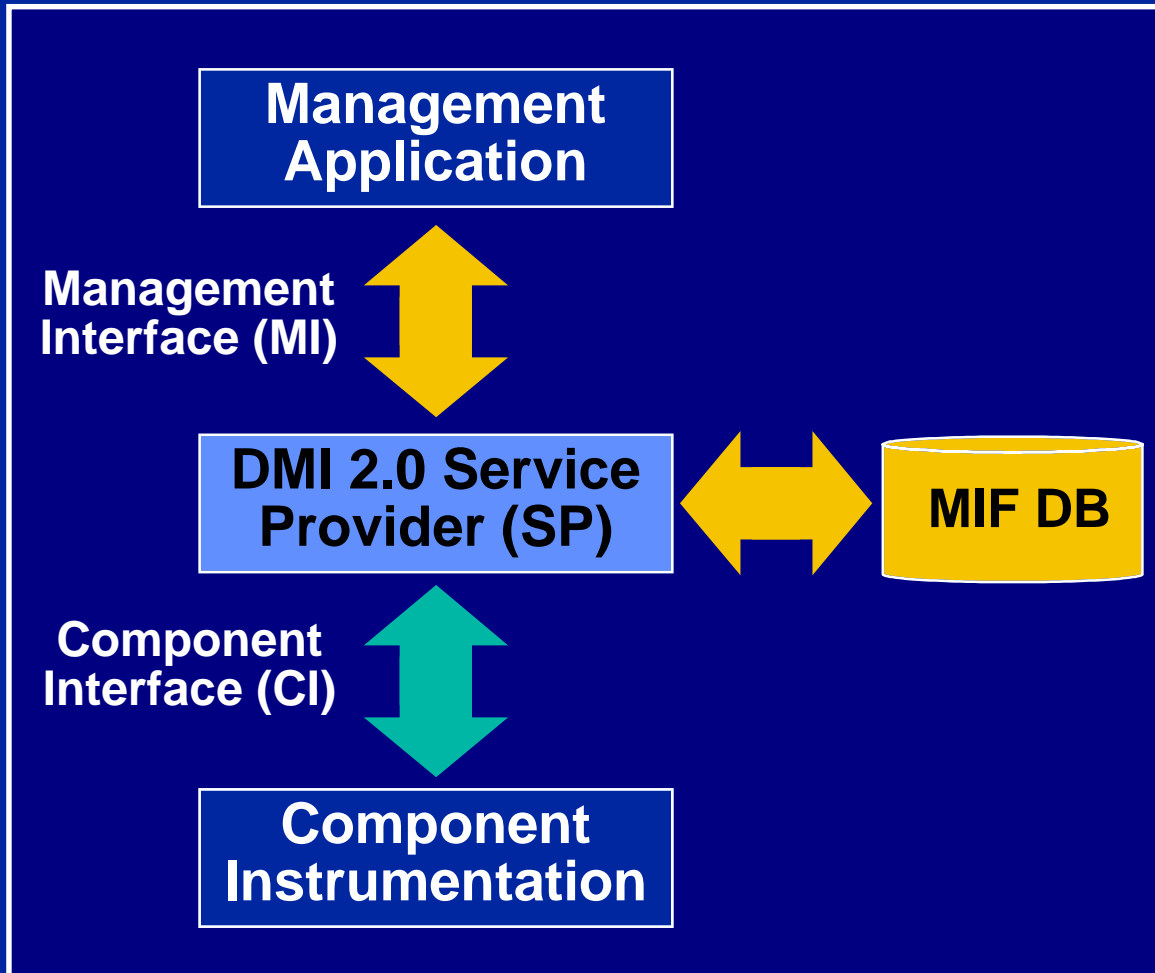
- ◆ Disk format

- ◆ OS install

- ◆ App install

Baseline Test Descriptions

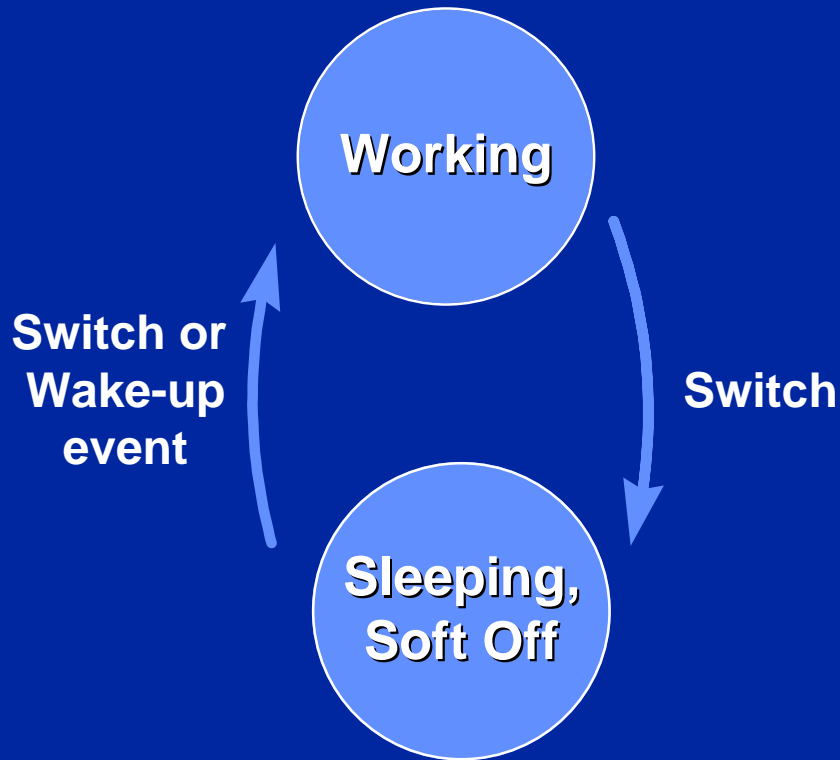
Instrumentation



- **DMI v2.0**
 - ◆ **Connectivity to SP via RPC**
 - ◆ **DMI 2.0 MIF syntax**
 - ◆ **WfM required groups (MIFs)**

Baseline Test Descriptions

Remote Wake-Up and Power Management



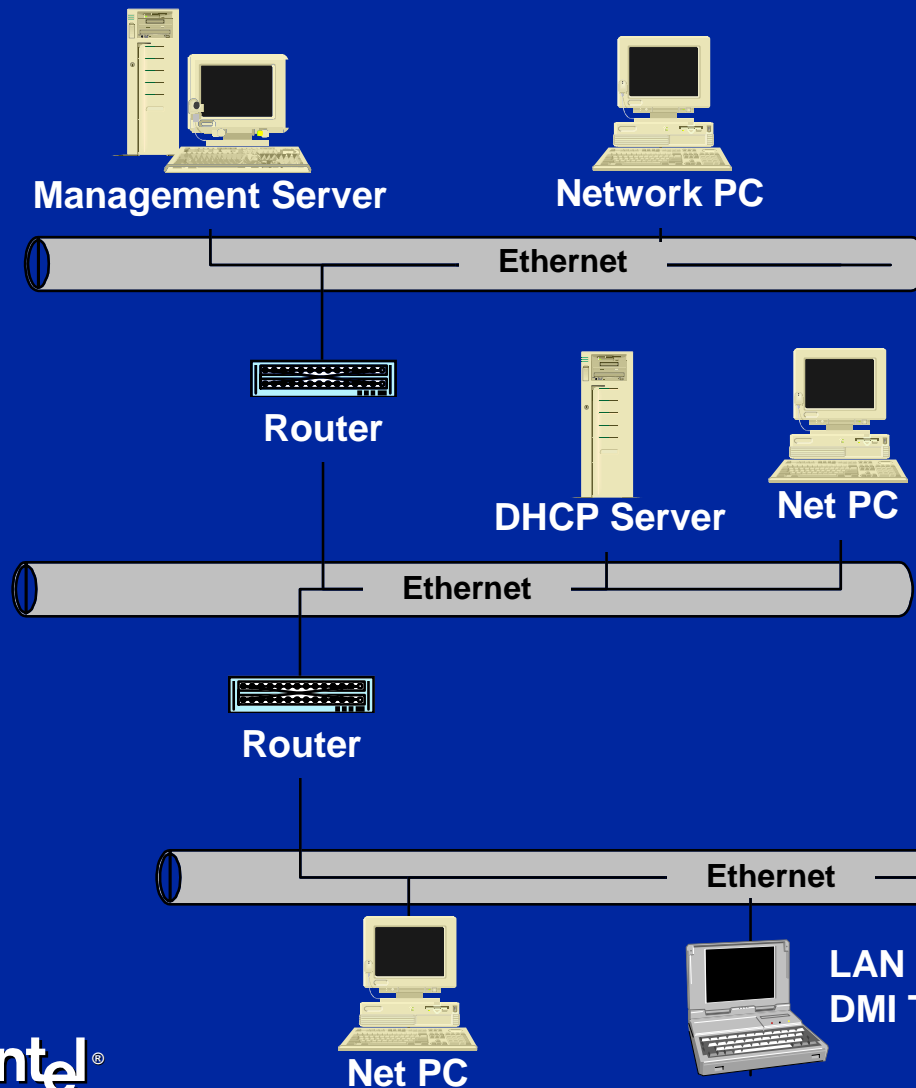
- Required states and transitions
- Wake-up packet support

Baseline Test Descriptions

Interoperability

- Prerequisite to pass compliance tests
- Interoperability elements (first release)
 - WfM test network replicated
 - LCM 1.5 used for management services
- New release every 3 months as needed

Put It All Together...



- ◆ WfM test network
- ◆ Compliance tests
- ◆ Interop tests
- ◆ Your product

It Just Works!



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Summary

- **WfM Baseline testing**
 - ◆ Tests for key elements of WfM
 - ◆ Get the pieces working together
- **Tests available at workshops or IPSL**
- **Testing comprises**
 - ◆ Compliance of 4 major WfM functions
 - ◆ Interoperability with industry elements

Call to Action

- **PC OEMs**
 - ◆ **Build and test WfM enabled systems**
- **Management software vendors**
 - ◆ **Incorporate WfM features into applications**
 - ◆ **Work with Intel to get into interop testing**
- **WfM ingredient vendors**
 - ◆ **Work with your customers on WfM**



Collaterals

- **WfM Baseline Testing**
 - ◆ **Intel Test Revision 1.1a-1**
- **<http://www.intel.com/managedpc/>**
- **QA_ICS_IPSL@ccm.intel.com**

