AUTOMATED TESTING FOR PRE-OS ENVIRONMENTS

Vishnu Murty
AUTOMATING PRE-OS ENVIRONMENTS

• What are Pre-OS Environments?
  – BIOS(System BIOS – F2)
  – Diagnostics tools
  – 32-bit applications(Firmware updates)

• Why are we Automating?
  – To reduce manual interventions
  – To reduce validation cycle
  – Time to Market

• How are we Automating?
  – Using Automation server with Serial communication
  – Win32 Python module for Serial communication
BLOCK DIAGRAM 1

Automation Server

Serial Communication (Port-0)

Server Under Test
HARDWARE FOR AUTOMATION
BACKUP
• Captaining BIOS Information
• Verifying the Virtualization Technology status
• Running Dell Diagnostics on multiple boot devices