Improvements to HP Operations Agents for NonStop:
OVNM 5.0 and OVNPM 1.4

Bob Loftis, Product Manager
Mark Washeleski, Support Manager
January 15, 2009
Agenda

• Introduction
  – OVNM and PM in HP NonStop systems manageability
  – Design goals, sample views
  – A view of HP NonStop systems within the enterprise

• Tour of latest features
  – OVNM v5
  – OVNPM v1.4 (Update 3)

• Futures and Q&A
HP NonStop Manageability Strategy

“To provide customers the best total cost of ownership (TCO) with modern manageability and serviceability products integrated with HP Unified Infrastructure Management”
And avoid this...
NonStop manageability integrated with HP manageability infrastructure

• Common view for management of all HP platforms
• Manage NonStop in heterogeneous environments
• Increase operator productivity and reduce operator training costs - reduce specialization based on platform
• Extend manageability up to application level
HP NonStop Manageability Portfolio

Focus of OVNM/PM

• Enterprise Integration
  – Managing the whole network and multiple systems
  – Sophisticated performance management and automated actions
  – Managing system efficiency

• System Monitoring and Management
  – Checking events
  – Monitoring performance
  – Taking corrective actions

• Basic Operations
  – Installation and configuration
  – Coldload
  – Hardware/microcode management
HP NonStop Manageability Solutions

• OVNM (former “OpenView”)
  – Now HP Operations Agent for NonStop
    • detects app and infrastructure problems and failures
    • business-focused
    • larger enterprise-oriented

• OVNPM
  – Now HP Performance Agent for NonStop
    • monitors real time performance
    • identifies trends for capacity planning
    • uses Measure data
    • web-based (Navigator display)
    • graphics-oriented
Design goals of agent-based products

• Strong business value orientation
  – efficient integration to larger business view
• Easy management of NonStop systems, applications
• Modern design and interface
• Easy for new-to-NonStop staff to learn
• Graphical approach to data analysis
• Preference to “alert as needed/directed,” rather than requiring user monitoring
Operations Agent for NonStop - OVNM

Provides object monitoring and event processing

- Automatic discovery of NonStop objects
- Processes subsystem and application events
- Provides customized threshold setting
- Sends messages upon violations
- Supports ACI Base24, Telco (HLR, INS), MQ Series
- Easy interface/instructions with HP Operations
- Provides NonStop data to other enterprise systems
  - IBM NetCool and Tivoli (requires adaptor product)
  - BMC Patrol
  - any SNMP-based mgt server
New OVNM Console
HP Operations Enterprise View

Initial event “minor”

Preset for non-specialist operator

Specific steps
HP Performance Agent for NonStop

- Monitors business applications
- Web-based, real time graphs, drill downs
- Sends performance alerts to enterprise consoles
- Analyzes historical trends, supports capacity planning
- GUI-based performance views
HP Operations Agent(s) for NonStop

Full-featured, robust manageability for NonStop system and performance: events, messages, thresholds, capacity planning, and more

HP provides Agents that work in homogenous environments as well as in multi-platform environments...
Fitting into HP Operations Center

(formerly OpenView)

HP Operations Center software
HP Operations Mgr for Windows or Unix Console

NonStop objects and events easily managed from an HP Operations Manager console, and integrated with:

- HP Network Node Manager (NNM)
- HP Reporter
- HP Service Navigator (UNIX)
Beyond HP Operations - Tivoli

(formerly OpenView)

HP Operations Center software
HP Operations Mgr for Windows or Unix Console

HP Operations Agent for NonStop
HP Performance Agent for NonStop
Tivoli Adapter for NonStop

NonStop environment

IBM/Tivoli Managed Enterprises

An HP Tivoli Adapter moves NonStop objects and events into the world of IBM enterprise management.
And now with OVNM 5.0...

(formerly OpenView)

HP Operations Center software
HP Operations Mgr for Windows or Unix Console

Now OVNM takes NonStop data to BMC, NetCool, and other enterprise management solutions

NonStop environment

IBM/Tivoli Managed Enterprises
Other SNMP Managed Enterprises (BMC, NetCool, etc)
Please Stand By While We Change Presenters

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This takes about a minute!
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(presenter change to Mark)

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  – OVNM (and PM) in HP NonStop systems manageability
  – Design goals, sample views
  – HP NonStop systems within the enterprise

• Tour of latest features
  – OVNM v5 in August
  – Futures for OVNPM

• Summary and Q&A
OVNM version 5 features

- OVNM Big picture
- OVNM Console Object Map/Object Stats
- Event escalation
- Object Configuration Client
- Host installation enhancements
- SNMP(v2) Adapter
- Additional OVNM5.0 Features
- OVNPM Features
OVNM 5.0 – big picture

OVNM MGMT TOOLS

- OVNM Console
- Host Install-Mgmt Clients (Java)
- OCC-Object Config Client
- Object Map
- Object Stats

ENTERPRISE MGMT

- HPOM/OVO Plug-in
- TIVOLI
- SNMP Adapter
- BMC-NetCool NNM
- Tivoli Adapter

T0712V05

T0764V01

UPDATED

NEW!
HP Operations Manager (HPOM)
OVNM version 5

- OVNM   Big picture
- **OVNM Console Object Map/Object Stats**
- Event actions and escalation
- Object Configuration Client
- Host Installation Client
- SNMP(v2) Adapter
- Additional OVNM5.0 Features
- OVNPM Features
OVNM Console

A Windows GUI program provides a single interface for managing NonStop servers

- Provides basic console management features found in HP Operations
- Provides EMS event monitoring for all NonStop servers that have the OVNM agent installed
- Provides easy way to configure actions to be taken for any EMS event.
- Enables NonStop application and system specialists to configure and test OVNM object threshold settings
OVNM Console and Object Map

OVNM Console and Object Map
OVNM Console and Object Map
Right Click on Event
OVNM version 5

- OVNM  Big picture
- OVNM Console Object Map/Object Stats
- **Event actions and escalation**
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Event actions and escalation

**OVNM action options**

- Change severity for OVNM Console
- Execute recovery command
- Send email/page
- Fwd to Enterprise Mgr (modify event text/severity)

- OVNM5.0 Object Event escalation time period

- Send email/page

- Change severity/event text
- Execute recovery command
- Fwd to Enterprise Mgr

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This support requires OVNM Configuration modification

**Use EMS Burst detection for Escalating SUBSYSTEM generated EMS EVENTS**
OVNM version 5

- OVNM  Big picture
- OVNM Console Object Map/Object Stats
- Event actions and escalation

- **Object Configuration Client**
  - Recovery actions
  - Mail/Page
  - Enterprise events
  - EMS Burst suppression

- Host Installation Client
- SNMP(v2) Adapter
- Additional OVNM5.0 Features
- OVNPM Features
OCC 5.0 Object Configuration Client

OCC is used to configure Actions for:

**EMS EVENTS** – Any Subsystem generated Event

OR

**OBJECT EVENTS** which are EMS Events generated by OVNM due to Object Monitoring Thresholds
OCC 5.0 Object Configuration Client

Threshold

- For Object Thresholds - Set GROUP and SUBGROUP for Object Map and Recovery monitoring commands
- For EMS Thresholds - Displays GROUP and SUBGROUP names used by Object Map. Ref to Action-Object Map Tab for setting names.

Severity for OVNM Console both Object & EMS Events

- Repeat & Escalate for Object Events
- Only EMS Events

This screen is used to define the burst criteria to be used to suppress EMS messages. The criteria is linked to an individual EMS threshold. If no burst criteria is defined and a burst of EMS messages is consumed, then every EMS message will be processed. By entering the burst criteria in this screen, you can limit:
  1. the number of messages that are sent to the Enterprise Solution,
  2. the number of emails that are generated
  3. the number of recoveries that are performed

This is only valid on EMS thresholds.

Click HELP for more detailed information.
OVNM version 5

- OVNM  Big picture
- OVNM Console Object Map/Object Stats
- Event escalation
- Object Configuration Client
**Host Installation Client**
- SNMP(v2) Adapter
- Additional OVNM5.0 Features
- OVNPM Features
Host Installation Client  (Java client)
OVNM version 5

- OVNM Big picture
- OVNM Console Object Map/Object Stats
- Event escalation
- Object Configuration Client
- Host Installation Client.
- **SNMP(v2) Adapter**
- Additional OVNM5.0 Features
- OVNPM Features
OVNM SNMPv2 Adapter

OVNM supports Store and Forward Multiple IP Addresses

Enterprise Manager

SNMP TRAP Variables
- Adapter Version
- ToolID
- Severity
- Application
- Object
- NodeName
- Manager
- Subject
- SSID
- Customer
- Location
- SubSystem Number
- Event Number
- Service
- Event Generation Time
- Event received Time
- Event Text
OVNM SNMPv2 Adapter - Netcool
OVNM SNMPv2 Adapter - BMC and NNM

BMC Event Browser with HP NonStop events

Network Node Manager alarms browser with HP NonStop events
OVNM 5.0 Additional Features

- New Scheduler (provides basic Batch functions)
- Support for HP Operations Manager (HPOM) 8.0
- Support MQ Series V5.3
- Performance enhancements
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HP Performance Agent for NonStop  OVNPM

Historical Reports – HP Reporter

GUI-based Display Agent

web-based

real-time

drill-down
OVNPM Navigator in OVNM Console

HP-OVNPM AAF
OpenView NonStop Performance Monitor
Profile: ADMIN

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OVNPM Version 1.4

- Enhancements to OVNPM Server introduce new TCP/IP and SQL Domains
- New TCP/IP entity type provides statistics for
  - transport processes
  - sockets level
- SQLPROC entity type provides data on 1+ SQL processes
- SQLSTMT entity type provides data about all SQL statements within a SQL process
- Nonstop Application Manager enabled by default, providing persistent OVNPM process
Display Agent: TCPIP Domain
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Futures: OVNPM Version 2.0
Beyond HP Operations

(formerly OpenView)

HP Operations Center software
HP Operations Mgr for Windows or Unix Console

HP Operations Agent for NonStop

HP Performance Agent for NonStop

Tivoli Adapter for NonStop

NonStop environment

IBM/Tivoli Managed Enterprises

Other SNMP Managed Enterprises (BMC, NetCool, etc)
A View of the Larger Business

(formerly OpenView)

OVNM Mgt
Console s/w included

HP Performance
Agent for NonStop

HP Operations
Agent for NonStop

Tivoli Adapter
for NonStop

NonStop environment

HP Operations Center software

HP Operations Mgr for Windows or Unix Console

Wintel Server
for SST mgt

Transaction
Analyzers

SST
Operations Bridge

IBM/Tivoli Managed
Enterprises

Service Center,
Remedy

Other SNMP Managed
Enterprises (BMC, etc)
Problem Solving – Root Cause Analysis
Product and sales information

- **OV01v5, HOV01v5, QOV01v5**
  - Not via Scout, order upgrade (UP) version CD
- **OV02v1.4, HOV02v1.4, QOV02v1.4**
  - Via Scout (Upgrade 3)
- For best results when replacing other mgt. system, encourage NonStop SDI service implementation
- Upgrade training available from partner
  - Need beta testers! Contact robert.loftis@hp.com

- [www.hp.com/go/nonstop/operationsmanagement](http://www.hp.com/go/nonstop/operationsmanagement)
Thank You! Questions?

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