Release Notes

Meta-View Agent and Host for HP-UX – version D.05g

Introduction

The following sections list the enhancements and resolved issues for this release and for past releases. This document is available on the documentation page of the Lund website at:

http://www.lund.com/support/documentation.html

Summary of significant changes

This version contains a major rewrite of the HP-UX code base, including a migration from the KI interface to pstat. SL files generated by previous mvAgent versions (prior to D.05a) are not compatible with mvlogx/mvdatad from version D.05.

Compatibility Matrix

Minimum versions of client/agent components:

MV Agent / Unix	MV Web	MV Alert	Performance Gallery Gold
D.05d	B.03e	A.01f	F.03c
D.04f	B.03e	--	F.03c
D.03e	B.01j	--	--
D.01b	A.01o	A.01f	F.01g

Current Release

Version D.05g – Released August 11, 2005

This release is based on version D.05f.

Issues Resolved

SR#	Service Request Description
1323	Fixed problems with the installation of startup scripts.

Known Issues

SR#	Service Request Description
1279	Slow startup of mvhost/mvlogd. Improved the tracing code to identify the root cause.

Product History

This product history lists enhancements and resolved issues in prior releases.

Version D.05f – Released July 7, 2005

This release is based on version D.05d and includes also the changes made for version D.05e.

Enhancements

SR#	Service Request Description
1323	Add support for installing start up scripts at /sbin/init.d/lund.rc and /etc/rc.config.d/lund.rc.config.
1322	Update Copyright date to 2005.

Issues Resolved

SR#	Service Request Description
1267	Warnning messages in mvhost screen caused by Veritas Volumes.
1268	The number of Veritas Volumes was not calculated correctly in some situations causing mvlogd to fail.
1265	Mvmid dies at startup.
1280	Mvlogd dies with exceeded log entry count error for the Disc and Volume class.

Known Issues

SR#	Service Request Description
1265	On adding new devices at runtime to the system, Meta-View may experience a problem and would abort because it does not recognize the new device. Usually, mvAgent would just need a restart.
1193	SL files generated by previous mvAgent versions (prior to D.05a) are not compatible with mvlogx and mvdatad from version D.05.
1279	Slow startup of mvhost/mvlogd. Improved the tracing code to identify the root cause.
1324	Removed support for HP-UX 10.20. No longer supported.

Version D.05d – Released April 19, 2005

This release is based on version D.05c.

Enhancements

SR#	Service Request Description
1244	Allocated more space on mvlogx network report so values would not be displayed as ***.

Issues Resolved

SR#	Service Request Description
1209	Collection of Veritas Volume statistics works when working in case volume subgroups were defined.
1226	Logging IPC information.

Known Issues

SR#	Service Request Description
93	On adding new devices at runtime to the system, Meta-View may experience a problem and would abort because it does not recognize the new device. Usually, mvAgent would just need a restart.

SR#	Service Request Description
1193	SL files generated by previous mvAgent versions (prior to D.05a) are not compatible with mvlogx and mvdatad from version D.05.

Version D.05c – Released March 25, 2005

This release is based on version D.05b. Includes the changes from maintenance release D.04l.

Enhancements

SR#	Service Request Description
1204	Include more usefull information about sempahores not just table entries. Table Summary Screen in mvhost was changed to include this information.
1229	Collect pstat data using wide interface (_PSTAT64).
1230	Volume Summary Screen displays the mount point.

Issues Resolved

SR#	Service Request Description
75	Meta-View will no longer alter the user defined Function key labels. Added support for HP series 700 terminal type.
695	Meta-View Agent will quit if the IPC message queue subsystem is disabled.
886	Same shortcut char 'O' was used for Global Menu and Oracle Menu. Changed the one for Global Menu to 'G'.
1228	Meta-View Agent does not collect dead process information.

Version D.05b – Released January 12, 2005

This release is based on version D.04j.

Enhancements

SR#	Service Request Description
1034	All KI related bugs should be fixed with this version. The code was changed to use the pstat interface to gather performance data. This will result in improved reliability and requires fewer system resources. The list of fixed bugs includes: Bug #647, Bug #914, Bug #427.
1144	Mvlogx reports do not support generic instance specification. Implemented a method to identify an instance by it's index (II#) in the report files, changed the Oracle reports and fsspace.rpt.

Issues Resolved

SR#	Service Request Description
776	Veritas volume names are now correctly determined.
1181	Values displayed as ****** because of wrong formatting in mvlogx reports. Fixed the fsspace report.
1182	Corrected values displayed for Idle times in mvhost Terminal summary screen.
1184	Values for RSS/VSS items have wrong unit type in mvhost User Summary screen.
1190	Oracle items are incorrectly logged. Changed the itemlist file to solve this issue.

Version D.04l – Released February 11, 2005

This release is based on version D.04k

Issues Resolved

SR#	Service Request Description
1198	Memory fork_size issue was solved (not printing the debug messages during initialization). There is a minor change in the disc format for debug messages. A problem with lpsLogPrintf() which caused wrong values at printing was solved.

Version D.04k – Released January 31, 2005

This release is based on version D.04j

Issues Resolved

SR#	Service Request Description
1013	Error while searching for device name based on the device id.
1198	Truncation of memory items on 64 bit platforms. Encountered on Itanium, HP-UX 11.23, 64 bit.

Version D.04j – Released August 25, 2004

This release is based on version D.04h

Enhancements

SR#	Service Request Description
1098	Modification for Itanium 64. It is a request for a group of fixes needed for this release on Itanium 64. The changes made are: RunQ Busy % consistently showed 100%, this metric was removed from all places that it occurred; Removed the buffer cache error message; kb and mb values were changes in MB and KB when referring to MegaBytes and KiloBytes; The message "some dead process information is missing" was removed; Added "q" for quit as well as leaving "e" for exit.

Issues Resolved

SR#	Service Request Description
1089	This error message "vxvm:vxprint: ERROR: IPC failure: Configuration daemon is not accessible" occurred when mvhost starts
1093	Mvhost itanium no longer dumps core on global screen

Version D.04h – Released July 10, 2004

This release is based on version D.04f

Enhancements

SR#	Service Request Description
928	Support for Itanium platform (HP-UX 11.23). Meta-View Agent is ported on this platform.

Issues Resolved

SR#	Service Request Description
75	Meta-View will no longer alter the user defined Function key labels.
647	The problem with "No such process" which needed a KI reset in the past.
776	Veritas volume names are now correctly determined.
844	ndisc parameter not accepted in .mvmidrc file like it is on Solaris
910	Meta-View agent does not crash if tries to connect to an Oracle 9 installation.
914	mvmid quits with this message : "io on unrecognized phy disc".

SR#	Service Request Description
922	Itanium has a new memory region type RSESTACK
929	Initialization error in the KI Conversion library caused by an unexpected CPU frequency value.
944	Wrong value for file locks metric. The problem affects mvAgent running on 32 bit HP-UX platforms.
1013	Failed to determine device file name in code that monitors swap devices.
1044	MVHOST and MVLOGD should not complain about ORACLE_HOME.

Version D.04f – Released May 5, 2004

This release is based on version D.03c

Enhancements

SR#	Service Request Description
285	The item descriptions for pwsitems/itemlist/pfgitems2 configuration files were reviewed and updated.
486	Changed directory names from "lps" to "lund" and the environment variables from LPS_* to LUND_*.
501	Fix field-widths of WAIT STATES in Process Detail mvhost screen.
595	System wide configuration files can be set in /etc/opt/lund. If user configuration files are present than these will be the ones processed.
616	The limit for the number of exported PROCESS class instances was increased from 100 to 127 in mvlogx PGG extracts.
649	The mvAgent can retrieve performance data from Oracle 9 database.
650	The limit for the number of PROCESS class instances present in SL files was changed from 10 to 20.
657	The limit for the number of exported PROCESSOR class instances was increased from 10 to 64 in mvlogx PGG extracts.
616	Increase number of processes instances exported to PGG from 100 to 127.
778	The alert_config was improved and updated for the new mvdatad protocol version (1.2).
873	Mvdatad implements a new communication protocol version (1.2). Compatibility is maintained with existing clients that use version 1.1 of the communication protocol.

Issues Resolved

SR#	Service Request Description
90	mvlogx would not display all entries from a list of SL files with more than 23 files.
570	mvlogd would use wrong debug message in case it couldn't get the priority of mvmid because mvmid died.
595	Setting up system-wide config files for mvlogd and mvmid.
622	mvAgent would dump core if the Oracle environment was not set up properly.
626	In mvlogx, PGG extracts from the PROCESS class values were not synchronized with the rest of the classes.
635	mvlogd would fail trying to use shm before mvmid could complete initialization and create it, due to a problem with sigsuspend() function calls.
651	mvAgent would not collect Veritas Volumes filesystem I/O information.
659	The unit measure for memory items in PROCESS class was changed from B to KB.
704	mvhost would should a lot of duplicate names in "Process File Usage" screen (F).
720	mvlogx would create bad PGG extracts if duplicate samples (same timestamp) exist in the SL file. This situation was encountered when SL files were created when the system clock was updated due to Daylight Saving Time.
778	The mvdatad alert_config configuration file was updated for the new mvdatad protocol (version 1.2).
784	Debug messages would fill metaview.log files due to unsufficiently checked item values at runtime.

SR#	Service Request Description
808	mvAgent would fail on stat()-ing mounted volumes (due to automount/nfs).
830	Licensed code number was changed. New licenses must be issued for this release.
874	mvdatad would issue an invalid handshake response by including serverInfo tags when it should just return the handshake protocol version
875	mvdatad would issue an invalid response by not surrounding errorID with itemValue tags.
887	mvhost would not save Oracle instance information in the Oracle configuration file (orainst.cfg)
895	mvdatad would quit with SIGBUS on 64bit platforms, when 64bit values (e.g. Oracle items) were processed.
906	mvdatad.log would not be created with group owner set to LUND_GROUP
907	The debug file for Oracle module, lpsora.log would not be created with group owner set to LUND_GROUP and file permissions set to 664.
710	mvmid quits with message "pstat_getdynamic failed:Invalid argument".
901	mvhost crash with memory fault on 64bit platforms when LPSORA_LOG was set.
1001	Synchronize release versions number across different platforms (HP-UX, Linux, Solaris).

Version D.03c – Released July 28, 2003

Enhancements

SR#	Service Request Description
184	Oracle data collection disabled by default. Oracle data collection is now OFF by default. Users who wish to collect Oracle statistics must enable Oracle collection from the Options menu. This avoids unnecessary warning messages for the majority of users who do not collect Oracle data.
238	Changed the communication protocol. A new client/server protocol is now used to communicate with Meta-View clients (Web, Mobile, Performance Gallery Gold). The new communication protocol version is 1.1. It is an incompatible upgrade of the previous 1.0 version. As such, only new Meta-View host and clients can communicate with each other.
255	Changed handshake protocol version. The new handshake protocol has been updated to version 1.1. This enhancement supports host authentication and also provides OS information to Meta-View clients. This part of the protocol update is backward compatible, to allow older clients to retrieve the server version information
257	Improved short tag support. This enhancement was required for compatibility with Meta-View Mobile. Short tags are now supported for the communication and handshake protocols
282	New items for all data classes in returned information. Two new items have been added to the return data for all host classes: SAMPLE_TIME date/time value for the sample (monitored host time) and ELAPSED _TIME elapsed time since the previous sample (measured in milliseconds)
283	New command line switch added to mvdatad. The command line switch -i has been added to allow the user to select which pwsitems configuration file to be used by the Meta-View Agent (mvdatad).
285	Changed structure of the pwsitems configuration file. The pwsitems file now includes class information.
289	Added a new class called PROCESSOR. A new class named PROCESSOR was added to provide performance information for every processor on a system. Previously, this information was contained in Performance Gallery Gold data (.pfg) files.
302	New scripts added to watch over Meta-View processes. Two new scripts have been added to Meta-View Host and can be found in the contrib/bin directory. They are: mvwatchdog and mvwatchlog The scripts will restart the Meta-View data logging daemon (mvlogd) and the Meta-View Agent (mvdatad) as needed and send an e-mail to watchdog@lund.com with the error found. The mvwatchlog monitors only the logging and data collection processes, while mvwatchdog also attempts to monitor interaction with the Meta-View Host application (mvhost).

Issues Resolved

SR#	Service Request Description
162	Fixed the warning message for empty lines in the license file. An unnecessary warning message was displayed when an empty line was found in the license file. This has been corrected.
286	Fixed the value returned with the NFS-IP-ADDR item. This item is now returned as a string value. Previously it was returned as a 32-bit integer. This item contains the IP address of the host system using dot notation.

SR#	Service Request Description
290	Fixed a mvlogx defect in report generator when displaying longint items. Previously the log extractor (mvlogx) was unable to display reports containing items of the longint type. This has been corrected
291	Fixed a mvlogx defect in report generator when aligning entries. A report generation error in the log extractor (mvlogx) caused the incorrect alignment of reports containing longint data items, including Oracle data items. This has been corrected.
299	Fixed problems with Oracle data logged in SL files. A problem was encountered when reading Oracle data from SL files using either the log extractor (mvlogx) or the Meta-View Agent (mvdatad). This has been corrected. Meta-View Host (mvhost) was not affected by this problem

Version D.01d – Released April 14, 2003

Issues Resolved

SR#	Service Request Description
58	The data item NFSG-CLT-BAD-CALL% was being calculated incorrectly. The problem has been fixed.
59	The Meta-View log extractor, mvlogx, could report negative SERIAL-NUMBER values in extracts to Performance Gallery Gold. The problem has been fixed.
67	The init script (lps.rc) has been updated to control mvlogd and mvdata.
80	The Meta-View Agent, mvdatad, now creates a lockfile, allowing it to be controlled by lpskill and by the init script.
85	The Meta-View Agent, mvdatad, failed on processing requests for large amounts of data (e.g., >3 days at 5-minute intervals for a data item with 30 or more instances). The problem has been fixed.
110	When mvdatad exits, it now also shuts down the auto-host-detect (AHD) process.
120	Statistics for large (>2 GB) filesystems have been corrected.
121	The default logging interval has been changed to 5 minutes to be consistent with Meta-View Performance Manager for MPE/iX.
122	The Meta-View measurement interface daemon, mvmid, failed to clean up its lockfile when it exited. The problem has been fixed.
123	Several diagnostic, help and error messages have been improved.
124	Invalid values were reported for some VM and CPU statistics. A workaround has been implemented to prevent this.
125	The Meta-View Agent, mvdatad, failed when processing data from more than 200 SL log files. It can now handle up to 2000 log files, approximately 5 years of data, at once.
126	Negative values for DISC-QUELEN were occasionally reported. The problem has been fixed.