



Accessing the Data Stored in the eG Database Using the eG CLI

Restricted Rights Legend

The information contained in this document is confidential and subject to change without notice. No part of this document may be reproduced or disclosed to others without the prior permission of eG Innovations Inc. eG Innovations Inc. makes no warranty of any kind with regard to the software and documentation, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose.

Trademarks

Microsoft Windows, Windows NT, Windows 2003, and Windows 2000 are either registered trademarks or trademarks of Microsoft Corporation in United States and/or other countries.

The names of actual companies and products mentioned herein may be the trademarks of their respective owners.

Copyright

©2014 eG Innovations Inc. All rights reserved.

Table of Contents

INTRODUCTION.....	1
1.1 HOW DOES THE EG CLI WORK?	1
THE EG CLI COMMANDS FOR ACCESSING THE RAW DATA STORED IN THE EG DATABASE.....	3
2.1 QUERYING THE TEST TABLES FOR PERFORMANCE STATISTICS	5
2.2 QUERYING THE TREND TABLES FOR TREND DATA	9
2.3 QUERYING THE THRESHOLD TABLES FOR THRESHOLD CONFIGURATIONS	15
2.4 EXECUTING 'SELECT' QUERIES ON RANDOM TABLES IN THE EG DATABASE	18
2.5 DETERMINING THE SUCCESS/FAILURE OF A COMMAND	19
CONCLUSIONS	20

Introduction

The eG Enterprise Suite periodically collects useful performance information from the network, systems, and applications in an environment, stores the performance data so collected in an Oracle / MS SQL server backend, and presents them to users in a 100%, web-based management console.

Some environments may use custom front-ends / portals, or third-party reporting engines for viewing and analyzing information. In such environments, administrators may need to quickly extract the performance data from the eG database and export it to the custom tools for display and analysis.

To enable this, the eG Enterprise suite provides a command-line interface (CLI). This interface allows users to quickly connect to the eG manager, retrieve raw performance/threshold data stored in the eG database, and save the data in a preferred format.

This assures administrators of quick and easy access to critical performance statistics, without interacting directly with the eG database, thereby protecting the database from abuse.

1.1 How does the eG CLI Work?

The eG CLI is currently supported on Windows, Linux, and Solaris environments.

By default, the eG CLI is bundled with the eG manager. Accordingly, once the eG manager is installed, the CLI-related files automatically get installed into the `<EG_INSTALL_DIR>\egcli` directory (on Windows; on Unix, this will be the `/opt/egurkha/egcli` directory). You can then proceed to issue the CLI commands from the Windows command prompt / Unix shell prompt on the eG manager host, and easily administer the eG Enterprise system.

On the other hand, to install eG CLI on a remote Windows/Linux/Solaris host, you will have to run a special set-up program that is provided. This is called **eGCLI.exe** on Windows environments, **iCLI_linux** on Linux and **iCLI_solaris** on Solaris. If an automation tool is in use in your environment, the setup program has to be executed on the host on which the automation tool (say, HPOO) operates. On the other hand, if no orchestration engine is in use in your environment, then, you can run the setup program on any remote host in your environment, so that eG CLI gets installed on that host.

Once installed, you need to configure the CLI to access the eG manager in the target environment, so that the CLI can execute commands/scripts on it to setup the environment for monitoring.

THE EG CLI COMMANDS FOR ACCESSING THE RAW DATA STORED IN THE EG DATABASE

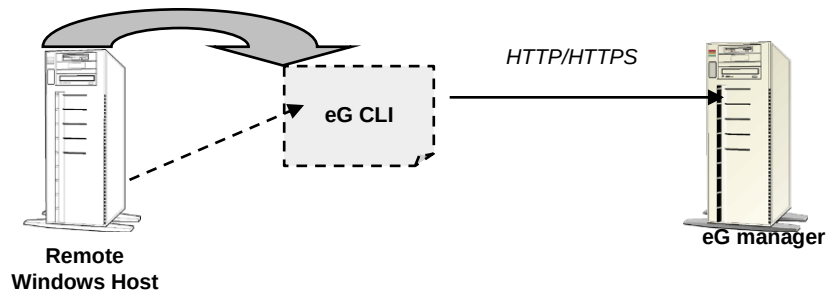


Figure 1.1: How the eG CLI works

In a redundant eG manager setup on the other hand, the eG CLI should be configured to communicate with the primary manager alone, as administrative operations can be performed only on this manager. Once this is done, the redundant manager architecture will ensure that the configuration changes effected on the primary manager are automatically replicated to the secondary manager(s).

To know how to install and configure the eG CLI, refer to the *Installing and Configuring the eG CLI* document. Once the eG CLI is installed and configured, you can begin executing the eG CLI commands discussed in the next chapter.

The eG CLI Commands for Accessing the Raw Data Stored in the eG Database

This chapter discusses the commands that eG CLI supports for performing database-related activities on the eG manager.

Typically, the commands can be broadly classified as follows:

- Queries on the Test Table
- Queries on the Trend Table
- Queries on the Threshold Table
- Random 'select' queries on the eG database

Note:

- Once you install the eG CLI, you will need to reboot the system on which the eG CLI is installed. This is required for the installation directory of the eG CLI to be in the system's path. Otherwise, you will need to prepend `<EGADMINCLI_DIR>\bin` to the commands you want to execute.
- Similarly, if you have built scripts into which the eG CLI commands have been bundled, then make sure that each command invocation in the script is pre-fixed by the full path to the command (i.e., `<EGADMINCLI_DIR>\bin`). To avoid this, you will have to reboot the eG CLI host after installation, and then proceed to write the scripts.
- The eG CLI commands can support multi-byte characters - i.e., the component names and agent nick names used in the command line can include multi-byte characters. However, to enable the eG CLI to support multi-byte component names/nick names, you need to install and configure the eG CLI on a multi-byte operating system.

THE EG CLI COMMANDS FOR ACCESSING THE RAW DATA STORED IN THE EG DATABASE

The sections below discuss each of these commands in detail.

1.2 Querying the Test Tables for Performance Statistics

Task	Command	Example
Retrieving statistics collected by a particular test from across all the managed components in the environment	<code>egdbcli -managerid <ManagerID> -test <TestName></code>	<code>egdbcli -managerid mid -test DiskSpace</code>
Retrieving statistics collected by a particular test from specific hosts	<code>egdbcli -managerid <ManagerID> -test <TestName> -host <Comma-separated list of hosts></code>	<code>egdbcli -managerid mid -test DiskSpace -host gen10,sun01</code>
Retrieving statistics collected by a particular test from a specific application	<code>egdbcli -managerid <ManagerID> -test <TestName> -host <IP/Nickname of application> -port <Port number of application></code>	<code>egdbcli -managerid mid -test SystemDetails -host mssql7 -port 1433</code>
Retrieving only the last measure values reported by a test for a specific application	<code>egdbcli -managerid <ManagerID> -test <TestName> -host <IP/Nickname of application> -port <Port number of application> -lastmeasure <True/False></code>	<code>egdbcli -managerid mid -test MsSqlProcesses -host mssql7 -port 1433 -lastmeasure true</code>
Retrieving the performance data reported by a test during a specific time period	<code>egdbcli -managerid <ManagerID> -test <TestName> -startDate "<StartDate/Time>" -endDate "<EndDate/Time>"</code>	<code>egdbcli -managerid mid -test DiskActivity -startDate "2010-05-14 23:49:29.0" -endDate "2010-05-15 05:41:12.0"</code>
Retrieving the performance data reported by a test in a desired date format	<code>egdbcli -managerid <ManagerID> -test <TestName> -dateformat "<DateFormat>"</code>	<code>egdbcli -managerid mid -test DiskActivity -dateformat "dd-MM-yyyy"</code>
Retrieving the last measure values for specific measures reported by a test	<code>egdbcli -managerid <ManagerID> -test <TestName> -lastmeasure <True/False> -measures <Comma-separated list of measure column numbers></code> OR <code>egdbcli -managerid <ManagerID> -test <TestName> -lastmeasure <True/False> -measures <Comma-separated list of measure display names in double-quotes></code>	<code>egdbcli -managerid mid -test DiskActivity -lastmeasure true -measures 1,2</code> OR <code>egdbcli -managerid mid -test Network -lastmeasure true -measures "Avg network delay,Min network delay"</code>
Retrieving the performance data reported by a test and storing the data to a new file of a specific format	<code>egdbcli -managerid <ManagerID> -test <TestName> -format <csv/txt/xml> -filename <Full path to the file></code>	<code>egdbcli -managerid mid -test DiskActivity -format csv -filename c:\diskact</code>

THE EG CLI COMMANDS FOR ACCESSING THE RAW DATA STORED IN THE EG DATABASE

Task	Command	Example
Retrieving the performance data reported by a test and storing the data to a file that pre-exists by overwriting that file	egdbcli -managerid <ManagerID> -test <TestName> -format <csv/txt/xml> -filename <Full path to the file> -append false	egdbcli -managerid mid -test DiskActivity -format csv -filename c:\diskact -append false
Retrieving the performance data reported by a test and storing the data to a file that pre-exists by appending the new data to that file	egdbcli -managerid <ManagerID> -test <TestName> -format <csv/txt/xml> -filename <Full path to the file> -append true	egdbcli -managerid mid -test DiskActivity -format csv -filename c:\diskact -append true
Retrieving the performance data for specific descriptors supported by a test	egdbcli -managerid <ManagerID> -test <TestName> -info <Descriptor>	egdbcli -managerid mid -test DiskActivity -info C,D
Retrieving the performance data collected by a particular measurement host	egdbcli -managerid <ManagerID> -test <TestName> -msmthost <Measurement host>	egdbcli -managerid mid -test Network -msmt 192.168.10.8
Retrieving the performance data pertaining to a specific web site	egdbcli -managerid <ManagerID> -test <TestName> -site <Sitename>	egdbcli -managerid mid -test WebTransactions -site www.egi.com
Retrieving the performance data pertaining to specific hosts associated with a web site	egdbcli -managerid <ManagerID> -test <TestName> -site <Sitename> -host <Comma-separated list of hosts>	egdbcli -managerid mid -test DiskSpace -site www.egi.com -host web7,ora9
Retrieving the performance data reported by a non-info-based test associated with an Oracle database server with multiple SIDs	egdbcli -managerid <ManagerID> -test <TestName> -host <IP/Nick name of Oracle server> -port <Port number of Oracle server> -info <Comma-separated list of SIDs, with each SID suffixed by a + sign>	egdbcli -managerid mid -test MemoryDetails -host ora12 -port 1521 -info egurkha+,egdemo+
Retrieving the performance data reported by an info-based test associated with an Oracle database server with multiple SIDs	egdbcli -managerid <ManagerID> -test <TestName> -host <IP/Nick name of Oracle server> -port <Port number of Oracle server> -info <Comma-separated list of SID-Info pairs, where each pair is of the format sid+info>	egdbcli -managerid mid -test DiskActivity -host ora12 -port 1521 -info egurkha+C,egurkha+D,egdemo+C,egdemo+D
Retrieving the detailed diagnosis associated with all the measures of a particular test	egdbcli -managerid <ManagerID> -test <TestName> -type dd	egdbcli -managerid md86 -test SystemDetails -type dd
Retrieving the detailed diagnosis associated with all the measures of a particular test for a particular component	egdbcli -managerid <ManagerID> -test <TestName> -host <IP/Nick name of component> -port <PortNumber> -type dd	egdbcli -managerid md86 -test SystemDetails -host gen34 -type dd (this is a non-port-based component; hence the -port parameter has been omitted)

THE EG CLI COMMANDS FOR ACCESSING THE RAW DATA STORED IN THE EG DATABASE

Retrieving the detailed diagnosis related to a particular measure of a particular test for a specific component	egdbcli -managerid <ManagerID> -test <TestName> -measure "<MeasureDisplayName>" -host <IP/Nick name of component> -type dd OR egdbcli -managerid <ManagerID> -test <TestName> -measure <Measure column number> -host <IP/Nick name of component> -type dd	egdbcli -managerid md86 -test SystemDetails -measure "Free memory" -host gen34 -type dd (this is a non-port-based component; hence the -port parameter has been omitted) OR egdbcli -managerid md86 -test SystemDetails -measure 11 -host gen34 -type dd (this is a non-port-based component; hence the -port parameter has been omitted)
Retrieving the last measurement values of a test mapped to all components in a segment	egdbcli -managerid <ManagerID> -test <TestName> -segment <SegmentName> -lastmeasure <true/false>	egdbcli -managerid md86 -test DiskSpace -segment seg1 -lastmeasure true
Retrieving the last measurement values of a test mapped to all components in a service	egdbcli -managerid <ManagerID> -test <TestName> -service <ServiceName> -lastmeasure <true/false>	egdbcli -managerid md86 -test DiskSpace -service ser1 -lastmeasure true
Retrieving the last measurement values of a test that is mapped to the components in a segment that are associated with a service	egdbcli -managerid <ManagerID> -test <TestName> -segment <SegmentName> -service <ServiceName> -lastmeasure <true/false>	egdbcli -managerid md86 -test DiskSpace -service ser1 -segment seg1 -lastmeasure true
Retrieving the last measurement values of a test mapped to a specific component in a service	egdbcli -managerid <ManagerID> -test <TestName> -service <ServiceName> -host <IP/Nick name of component> -port <PortNumber> -lastmeasure <true/false>	egdbcli -managerid md86 -test DiskSpace -service ser1 -host ad23 -port 389 -lastmeasure true
Retrieving the last measurement values of a test mapped to a specific component in a segment	egdbcli -managerid <ManagerID> -test <TestName> -segment <SegmentName> -host <IP/Nick name of component> -port <PortNumber> -lastmeasure <true/false>	egdbcli -managerid md86 -test DiskSpace -segment seg1 -host ad123 -port 389 -lastmeasure true
Retrieving the last measurement values of a specific test for components with nick names that match a specified set of search patterns	egdbcli -managerid <ManagerID> -test <TestName> -searchhost "<Comma-separated list of search patterns>" -lastmeasure <true/false>	egdbcli -managerid md86 -test DiskSpace -searchhost "*i*,win*,*ora*" -lastmeasure true
Retrieving the last measurement values of a specific test with descriptors that match a specified set of search patterns	egdbcli -managerid <ManagerID> -test <TestName> -searchinfo "<Comma-separated list of search patterns>" -lastmeasure <true/false>	egdbcli -managerid md86 -test DiskSpace -searchinfo "*C*,E" -lastmeasure true
Retrieving the last measurement values of a specific test mapped to a particular component with descriptors that match a specified set of search patterns	egdbcli -managerid <ManagerID> -test <TestName> -host <IP/Nickname of component> -port <PortNumber> -searchinfo "<Comma-separated list of search patterns>" -lastmeasure <true/false>	egdbcli -managerid md86 -test DiskSpace -host exch -port 25 -searchinfo "*C*,E" -lastmeasure true

THE EG CLI COMMANDS FOR ACCESSING THE RAW DATA STORED IN THE EG DATABASE

Retrieving the last measurement values of a particular test across components, and grouping the result set by a specific column in the test table	egdbcli -managerid <ManagerID> -test <TestName> -lastmeasure <true/false> -groupby <ColumnName>	egdbcli -managerid md86 -test network -lastmeasure true -groupby trgt_host
Retrieving the last measurement values of a particular test across components, and sorting the result set in the ascending/descending order of the contents of a particular column in the test table	egdbcli -managerid <ManagerID> -test <TestName> -lastmeasure <true/false> -orderby <ColumnName>	egdbcli -managerid md86 -test network -lastmeasure true -orderby desc
Retrieving the detailed diagnosis (DD) of a test, and grouping the DD result by a specific column in the DD	egdbcli -managerid <ManagerID> -test <TestName> -type dd -groupby <ColumnName>	egdbcli -managerid md86 -test "System - Guest" -type dd -groupby trgt_host
Retrieving the detailed diagnosis of a particular test, and sorting the result set in the ascending/descending order of the contents of a particular column in the DD	egdbcli -managerid <ManagerID> -test <TestName> -type dd -orderby <ColumnName>	egdbcli -managerid md86 -test "System - Guest" -type dd -orderby desc
Requesting help with syntax while issuing commands for accessing test tables	egdbcli Help Testparameters	

1.3 Querying the Trend Tables for Trend Data

Task	Command	Example
Retrieving trend data related to a particular test	egdbcli -managerid <ManagerID> -test <TestName> -type Trend	egdbcli -managerid mid -test DiskSpace -type Trend
Retrieving trend computations related to a particular test for specific hosts	egdbcli -managerid <ManagerID> -test <TestName> -host <Comma-separated list of hosts> -type Trend	egdbcli -managerid mid -test DiskSpace -type Trend -host gen10,lin12
Retrieving trend data related to a particular test for a specific application	egdbcli -managerid <ManagerID> -test <TestName> -host <IP/Nick name of application> -port <Port number of application> -type Trend	egdbcli -managerid mid -test DiskActivity -host 192.168.10.8 -port 80 -type Trend
Retrieving the trend data computed for a particular test during a specific period	egdbcli -managerid <ManagerID> -test <TestName> -startDate "<StartDate/Time>" -endDate "<EndDate/Time>" -type Trend	egdbcli -managerid mid -test DiskActivity -startDate "2010-05-14 23:49:29.0" -endDate "2010-05-15 05:41:12.0" -type Trend
Retrieving the trend data for a test in a desired date format	egdbcli -managerid <ManagerID> -test <TestName> -dateformat "<DateFormat>" -type Trend	egdbcli -managerid mid -test DiskActivity -dateformat "dd-MM-yyyy" -type Trend
Retrieving the trend computations for specific measures reported by a test	egdbcli -managerid <ManagerID> -test <TestName> -measures <Comma-separated list of measure column numbers> -type Trend OR egdbcli -managerid <ManagerID> -test <TestName> -measures <Comma-separated list of measure display names in double-quotes> -type Trend	egdbcli -managerid mid -test DiskActivity -measures 1,2 -type Trend OR egdbcli -managerid mid -test Network -measures "Avg network delay,Min network delay" -type Trend
Retrieving the trend data of a test and saving the data to a new file of a specific format	egdbcli -managerid <ManagerID> -test <TestName> -format <csv/txt/xml> -filename <Full path to the file> -type Trend	egdbcli -managerid mid -test DiskActivity -format csv -filename c:\diskact -type Trend
Retrieving the trend data of a test and saving the data to an existing file by overwriting it	egdbcli -managerid <ManagerID> -test <TestName> -format <csv/txt/xml> -filename <Full path to the file> -append false -type Trend	egdbcli -managerid mid -test DiskActivity -format csv -filename c:\diskact -append false -type Trend
Retrieving the trend data of a test and saving the data to an existing file by appending to it	egdbcli -managerid <ManagerID> -test <TestName> -format <csv/txt/xml> -filename <Full path to the file> -append true -type Trend	egdbcli -managerid mid -test DiskActivity -format csv -filename c:\diskact -append true -type Trend

THE EG CLI COMMANDS FOR ACCESSING THE RAW DATA STORED IN THE EG DATABASE

Task	Command	Example
Retrieving the trend data for a specific descriptor supported by a test	egdbcli -managerid <ManagerID> -test <TestName> -info <Descriptor> -type Trend	egdbcli -managerid mid -test DiskActivity -info C,D -type Trend
Retrieving the trend data for multiple descriptors supported by a test	egdbcli -managerid <ManagerID> -test <TestName> -info <Comma-separated list of descriptors> -type Trend	egdbcli -managerid mid -test DiskActivity -info C,D -type Trend
Retrieving the trend data for a particular measurement host	egdbcli -managerid <ManagerID> -test <TestName> -msmthost <Measurement host> -type Trend	egdbcli -managerid mid -test Network -msmt 192.168.10.8 -type Trend
Retrieving the trend data pertaining to a specific web site	egdbcli -managerid <ManagerID> -test <TestName> -site <Sitename> -type Trend	egdbcli -managerid mid -test WebTransactions -site www.egi.com -type Trend
Retrieving the trend data pertaining to specific hosts associated with a web site	egdbcli -managerid <ManagerID> -test <TestName> -site <Sitename> -host <Comma-separated list of hosts> -type Trend	egdbcli -managerid mid -test DiskSpace -site www.egi.com -host web7,ora9 -type Trend
Retrieving the trend data related to a non-info-based test associated with an Oracle database server with multiple SIDs	egdbcli -managerid <ManagerID> -test <TestName> -host <IP/Nick name of Oracle server> -port <Port number of Oracle server> -info <Comma-separated list of SIDs, with each SID suffixed by a + sign> -type Trend	egdbcli -managerid mid -test MemoryDetails -host ora12 -port 1521 -info egurkha+,egdemo+ -type Trend
Retrieving the trend data computed for an info-based test associated with an Oracle database server with multiple SIDs	egdbcli -managerid <ManagerID> -test <TestName> -host <IP/Nick name of Oracle server> -port <Port number of Oracle server> -info <Comma-separated list of SID-Info pairs, where each pair is of the format sid+info> -type Trend	egdbcli -managerid mid -test DiskActivity -host ora12 -port 1521 -info egurkha+C,egurkha+D,egdmo+C,egdmo+D -type Trend
Retrieving the hourly summary of data for a test during a specific time period	egdbcli -managerid <ManagerID> -test <TestName> -startDate "<StartDate/Time>" -endDate "<EndDate/Time>" -type Trend -period hs	egdbcli -managerid mid -test DiskActivity -startDate "2010-05-14 23:49:29.0" -endDate "2010-05-15 05:41:12.0" -type Trend -period hs
Retrieving the hourly data for a test during a specific time period	egdbcli -managerid <ManagerID> -test <TestName> -startDate "<StartDate/Time>" -endDate "<EndDate/Time>" -type Trend -period h	egdbcli -managerid mid -test DiskActivity -startDate "2010-05-14 23:49:29.0" -endDate "2010-05-15 05:41:12.0" -type Trend -period h
Retrieving the daily summary data for a test during a specific time period	egdbcli -managerid <ManagerID> -test <TestName> -startDate "<StartDate/Time>" -endDate "<EndDate/Time>" -type Trend -period ds	Egdbcli -managerid mid -test DiskActivity -startDate "2010-05-14 23:49:29.0" -endDate "2010-05-20 05:41:12.0" -type Trend -period ds

THE EG CLI COMMANDS FOR ACCESSING THE RAW DATA STORED IN THE EG DATABASE

Retrieving the daily data for a test during a specific time period	egdbcli -managerid <ManagerID> -test <TestName> -startDate "<StartDate/Time>" -endDate "<EndDate/Time>" -type Trend -period d	egdbcli -managerid mid -test DiskActivity -startDate "2010-05-14 23:49:29.0" -endDate "2010-05-20 05:41:12.0" -type Trend -period d
Retrieving the monthly summary data for a test during a specific time period	egdbcli -managerid <ManagerID> -test <TestName> -startDate "<StartDate/Time>" -endDate "<EndDate/Time>" -type Trend -period ms	egdbcli -managerid mid -test DiskActivity -startDate "2010-05-14 23:49:29.0" -endDate "2010-07-15 05:41:12.0" -type Trend -period ms
Retrieving the monthly data for a test during a specific time period	egdbcli -managerid <ManagerID> -test <TestName> -startDate "<StartDate/Time>" -endDate "<EndDate/Time>" -type Trend -period m	egdbcli -managerid mid -test DiskActivity -startDate "2010-05-14 23:49:29.0" -endDate "2010-07-15 05:41:12.0" -type Trend -period m
Retrieving the trend data of a test mapped to all components in a segment	egdbcli -managerid <ManagerID> -test <TestName> -segment <SegmentName> -type Trend	egdbcli -managerid md86 -test DiskSpace -segment seg1 -type Trend
Retrieving the trend data of a test mapped to one component in a segment	egdbcli -managerid <ManagerID> -test <TestName> -segment <SegmentName> -host < IP/Nick name of host> -port<PortNumber> -type Trend	egdbcli -managerid md86 -test DiskSpace -segment seg1 -host web83 port 80 -type Trend
Retrieving the trend data of a test mapped to specific components in a segment	egdbcli -managerid <ManagerID> -test <TestName> -segment <SegmentName> -host <Comma-separated list of IP/Nick names of hosts> -type Trend	egdbcli -managerid md86 -test DiskSpace -segment seg1 -host w198,web83 -type Trend
Retrieving the hourly trend data of a test mapped to all components in a segment during a specific period	egdbcli -managerid <ManagerID> -test <TestName> -segment <SegmentName> -startDate "<StartDate/Time>" -endDate "<EndDate/Time>" -type Trend -period h	egdbcli -managerid mid -test DiskActivity -segment seg1 -startDate "2010-05-14 23:49:29.0" -endDate "2010-05-15 05:41:12.0" -type Trend -period h
Retrieving the hourly summary data of a test mapped to all components in a segment during a specific period	egdbcli -managerid <ManagerID> -test <TestName> -segment <SegmentName> -startDate "<StartDate/Time>" -endDate "<EndDate/Time>" -type Trend -period hs	egdbcli -managerid mid -test DiskActivity -segment seg1 -startDate "2010-05-14 23:49:29.0" -endDate "2010-05-15 05:41:12.0" -type Trend -period hs
Retrieving the daily trend data of a test mapped to all components in a segment during a specific period	egdbcli -managerid <ManagerID> -test <TestName> -segment <SegmentName> -startDate "<StartDate/Time>" -endDate "<EndDate/Time>" -type Trend -period d	egdbcli -managerid mid -test DiskActivity -segment seg1 -startDate "2010-05-14 23:49:29.0" -endDate "2010-05-20 05:41:12.0" -type Trend -period d
Retrieving the daily summary data of a test mapped to all components in a segment during a specific period	egdbcli -managerid <ManagerID> -test <TestName> -segment <SegmentName> -startDate "<StartDate/Time>" -endDate "<EndDate/Time>" -type Trend -period ds	egdbcli -managerid mid -test DiskActivity -segment seg1 -startDate "2010-05-14 23:49:29.0" -endDate "2010-05-20 05:41:12.0" -type Trend -period ds
Retrieving the monthly trend data of a test mapped to all components in a segment during a specific period	egdbcli -managerid <ManagerID> -test <TestName> -segment <SegmentName> -startDate "<StartDate/Time>" -endDate "<EndDate/Time>" -type Trend -period m	egdbcli -managerid mid -test DiskActivity -segment seg1 -startDate "2010-05-14 23:49:29.0" -endDate "2010-07-15 05:41:12.0" -type Trend -period m

THE EG CLI COMMANDS FOR ACCESSING THE RAW DATA STORED IN THE EG DATABASE

Retrieving the monthly summary data of a test mapped to all components in a segment during a specific period	<code>egdbcli -managerid <ManagerID> -test <TestName> -segment <SegmentName> -startDate "<StartDate/Time>" -endDate "<EndDate/Time>" -type Trend -period ms</code>	<code>egdbcli -managerid mid -test DiskActivity -segment seg1 -startDate "2010-05-14 23:49:29.0" -endDate "2010-07-15 05:41:12.0" -type Trend -period ms</code>
Retrieving the trend data of a test mapped to all components in a web site or non-web site service	<code>egdbcli -managerid <ManagerID> -test <TestName> -service <ServiceName> -type Trend</code>	<code>egdbcli -managerid md86 -test DiskSpace -service ser1 -type Trend</code>
Retrieving the trend data of a test that is mapped to the components in a segment that are associated with a service	<code>egdbcli -managerid <ManagerID> -test <TestName> -segment <SegmentName> -service <ServiceName> -type Trend</code>	<code>egdbcli -managerid md86 -test DiskSpace -service ser1 -segment seg1 -type Trend</code>
Retrieving the trend data of a test mapped to a specific component in a service	<code>egdbcli -managerid <ManagerID> -test <TestName> -service <ServiceName> -host <IP/Nick name of component> -port <PortNumber> -type Trend</code>	<code>egdbcli -managerid md86 -test DiskSpace -service ser1 -host ad23 -port 389 -type Trend</code>
Retrieving the trend data of a test mapped to specific components in a service	<code>egdbcli -managerid <ManagerID> -test <TestName> -service <ServiceName> -host <Comma-separated list of IP addresses / Nick names of components> -type Trend</code>	<code>egdbcli -managerid md86 -test DiskSpace -service ser1 -host ad23,iis80 -type Trend</code>
Retrieving the hourly trend data, pertaining to a specific time period, for a test mapped to all components in a service	<code>egdbcli -managerid <ManagerID> -test <TestName> -service <ServiceName> -startDate "<StartDate/Time>" -endDate "<EndDate/Time>" -type Trend -period h</code>	<code>egdbcli -managerid mid -test DiskActivity -service ser1 -startDate "2010-05-14 23:49:29.0" -endDate "2010-05-15 05:41:12.0" -type Trend -period h</code>
Retrieving the hourly summary data, pertaining to a specific time period, for a test mapped to all components in a service	<code>egdbcli -managerid <ManagerID> -test <TestName> -service <ServiceName> -startDate "<StartDate/Time>" -endDate "<EndDate/Time>" -type Trend -period hs</code>	<code>egdbcli -managerid mid -test DiskActivity -service ser1 -startDate "2010-05-14 23:49:29.0" -endDate "2010-05-15 05:41:12.0" -type Trend -period hs</code>
Retrieving the daily trend data, pertaining to a specific time period, for a test mapped to all components in a service	<code>egdbcli -managerid <ManagerID> -test <TestName> -service <ServiceName> -startDate "<StartDate/Time>" -endDate "<EndDate/Time>" -type Trend -period d</code>	<code>egdbcli -managerid mid -test DiskActivity -service ser1 -startDate "2010-05-14 23:49:29.0" -endDate "2010-05-20 05:41:12.0" -type Trend -period d</code>
Retrieving the daily summary data, pertaining to a specific time period, for a test mapped to all components in a service	<code>egdbcli -managerid <ManagerID> -test <TestName> -service <ServiceName> -startDate "<StartDate/Time>" -endDate "<EndDate/Time>" -type Trend -period ds</code>	<code>egdbcli -managerid mid -test DiskActivity -service ser1 -startDate "2010-05-14 23:49:29.0" -endDate "2010-05-20 05:41:12.0" -type Trend -period ds</code>
Retrieving the monthly trend data, pertaining to a specific time period, for a test mapped to all components in a service	<code>egdbcli -managerid <ManagerID> -test <TestName> -service <ServiceName> -startDate "<StartDate/Time>" -endDate "<EndDate/Time>" -type Trend -period m</code>	<code>egdbcli -managerid mid -test DiskActivity -service ser1 -startDate "2010-05-14 23:49:29.0" -endDate "2010-07-15 05:41:12.0" -type Trend -period m</code>
Retrieving the monthly summary data, pertaining to a specific time period, for a test mapped to all components in a service	<code>egdbcli -managerid <ManagerID> -test <TestName> -service <ServiceName> -startDate "<StartDate/Time>" -endDate "<EndDate/Time>" -type Trend -period ms</code>	<code>egdbcli -managerid mid -test DiskActivity -service ser1 -startDate "2010-05-14 23:49:29.0" -endDate "2010-07-15 05:41:12.0" -type Trend -period ms</code>

THE EG CLI COMMANDS FOR ACCESSING THE RAW DATA STORED IN THE EG DATABASE

Retrieving the trend data of a specific test for components with nick names that match a specified set of search patterns	egdbcli -managerid <ManagerID> -test <TestName> -searchhost "<Comma-separated list of search patterns>" -type Trend	egdbcli -managerid md86 -test DiskSpace -searchhost "*"*,win*",*ora*" -type Trend
Retrieving the hourly/daily/monthly trend data of a specific test for components with nick names that match a specified set of search patterns	egdbcli -managerid <ManagerID> -test <TestName> -searchhost "<Comma-separated list of search patterns>" -type Trend -period <h/d/m based on type of trend data required - hourly, daily, or monthly>	egdbcli -managerid md86 -test DiskSpace -searchhost "*"*,win*",*ora*" -type Trend -period h (to retrieve hourly trends)
Retrieving the hourly/daily/monthly summary data of a specific test for components with nick names that match a specified set of search patterns	egdbcli -managerid <ManagerID> -test <TestName> -searchhost "<Comma-separated list of search patterns>" -type Trend -period <hs/ds/ms based on type of summary data required - hourly, daily, or monthly>	egdbcli -managerid md86 -test DiskSpace -searchhost "*"*,win*",*ora*" -type Trend -period hs (to retrieve hourly summary)
Retrieving the trend data of a specific test with descriptors that match a specified set of search patterns	egdbcli -managerid <ManagerID> -test <TestName> -searchinfo "<Comma-separated list of search patterns>" -type Trend	egdbcli -managerid md86 -test DiskSpace -searchinfo "*"C*,E" -type Trend
Retrieving the hourly/daily/monthly trend data of a specific test with descriptors that match a specified set of search patterns	egdbcli -managerid <ManagerID> -test <TestName> -searchinfo "<Comma-separated list of search patterns>" -type Trend -period <h/d/m based on type of trend data required - hourly, daily, or monthly>	egdbcli -managerid md86 -test DiskSpace -searchinfo "*"C*,E" -type Trend -period h (to retrieve hourly trends)
Retrieving the hourly/daily/monthly summary data of a specific test with nick names that match a specified set of search patterns	egdbcli -managerid <ManagerID> -test <TestName> -searchinfo "<Comma-separated list of search patterns>" -type Trend -period <hs/ds/ms based on type of summary data required - hourly, daily, or monthly>	egdbcli -managerid md86 -test DiskSpace -searchinfo "*"C*,E" -type Trend -period hs (to retrieve hourly summary)
Retrieving the trend data of a specific test mapped to a particular component with descriptors that match a specified set of search patterns	egdbcli -managerid <ManagerID> -test <TestName> -host <IP/Nickname of component> -port <PortNumber> -searchinfo "<Comma-separated list of search patterns>" -type Trend	egdbcli -managerid md86 -test DiskSpace -host exch -port 25 -searchinfo "*"C*,E" -type Trend
Retrieving the hourly/daily/monthly trend data of a specific test mapped to a particular component with descriptors that match a specified set of search patterns	egdbcli -managerid <ManagerID> -test <TestName> -host <IP/Nickname of component> -port <PortNumber> -searchinfo "<Comma-separated list of search patterns>" -type Trend -period <h/d/m based on type of trend data required - hourly, daily, or monthly>	egdbcli -managerid md86 -test DiskSpace -host exch -port 25 -searchinfo "*"C*,E" -type Trend -period h (to retrieve hourly trends)

THE EG CLI COMMANDS FOR ACCESSING THE RAW DATA STORED IN THE EG DATABASE

Retrieving the hourly/daily/monthly summary data of a specific test mapped to a particular component with descriptors that match a specified set of search patterns	egdbcli -managerid <ManagerID> -test <TestName> -host <IP/Nickname of component> -port <PortNumber> -searchinfo "<Comma-separated list of search patterns>" -type Trend -period <hs/ds/ms based on type of summary data required - hourly, daily, or monthly>	egdbcli -managerid md86 -test DiskSpace -host exch -port 25 -searchinfo "*C*,E" -type Trend -period hs (to retrieve hourly summary)
Retrieving the trend data pertaining to a specific time period for a particular test across components, and grouping the result set by a specific column in the trend table	egdbcli -managerid <ManagerID> -test <TestName> -type Trend -startDate "<StartDate/Time>" -endDate "<EndDate/Time>" -groupby <ColumnName>	egdbcli -managerid md86 -test network -type Trend -startDate "04/06/2011 16:42:00" -endDate "04/06/2011 17:42:00" -groupby trgt_host
Retrieving the trend data pertaining to a specific time period for a particular test across components, and sorting the result set in the ascending/descending order of the contents of a particular column in the trend table	egdbcli -managerid <ManagerID> -test <TestName> -type Trend -startDate "<StartDate/Time>" -endDate "<EndDate/Time>" -orderby <ColumnName>	egdbcli -managerid md86 -test network -type Trend -startDate "04/06/2011 16:42:00" -endDate "04/06/2011 17:42:00" -orderby desc
Requesting help with syntax while issuing commands for retrieving data from trend tables	egdbcli Help Trendparameters	

1.4 Querying the Threshold Tables for Threshold Configurations

Task	Command	Example
Retrieving the threshold configuration of a particular test	egdbcli -managerid <ManagerID> -test <TestName> -type Threshold	egdbcli -managerid mid -test Disk Space -type Threshold
Retrieving the threshold configuration of a particular test for specific components	egdbcli -managerid <ManagerID> -host <Comma-separated list of IP/Nick names of components> -test <TestName> -type Threshold	egdbcli -managerid mid -test DiskActivity -host ora1,sql28 -type Threshold
Retrieving the threshold configuration of specific measures reported by particular test for specific components	egdbcli -managerid <ManagerID> -host <Comma-separated list of IP/Nick names of components> -test <TestName> -measures <Comma-separated list of measure display names in double quotes> -type Threshold	egdbcli -managerid mid -test DiskActivity -host ora1,sql28 -measures "Disk busy,Disk read rate" -type Threshold
Retrieving the threshold configuration of a single descriptor for specific measures reported by a particular test for specific components	egdbcli -managerid <ManagerID> -host <Comma-separated list of IP/Nick names of components> -test <TestName> -measures <Comma-separated list of measure display names in double quotes> -info <Descriptor name> -type Threshold	egdbcli -managerid mid -host ora1,sql28 -test DiskActivity -measures "Disk busy,Disk read rate" -info C -type Threshold
Retrieving the threshold details of multiple descriptors supported by a test	egdbcli -managerid <ManagerID> -test <TestName> -info <Comma-separated list of descriptors> -type Threshold	egdbcli -managerid mid -test DiskActivity -info C,D -type Trend
Retrieving the threshold configuration of a non-info-based test associated with an Oracle database server with multiple SIDs	egdbcli -managerid <ManagerID> -test <TestName> -host <IP/Nick name of Oracle server> -port <Port number of Oracle server> -info <Comma-separated list of SIDs, with each SID suffixed by a + sign> -type Threshold	egdbcli -managerid mid -test MemoryDetails -host ora12 -port 1521 -info egurkha+,egdemo+ -type Threshold
Retrieving the threshold configuration of an info-based test associated with an Oracle database server with multiple SIDs	egdbcli -managerid <ManagerID> -test <TestName> -host <IP/Nick name of Oracle server> -port <Port number of Oracle server> -info <Comma-separated list of SID-Info pairs, where each pair is of the format sid+info> -type Threshold	egdbcli -managerid mid -test DiskActivity -host ora12 -port 1521 -info egurkha+C,egurkha+D,egdemo+C,egdemo+D -type Threshold
Retrieving the threshold configuration of a test mapped to all components in a segment	egdbcli -managerid <ManagerID> -test <TestName> -segment <SegmentName> -type Threshold	egdbcli -managerid md86 -test DiskSpace -segment seg1 -type Threshold
Retrieving the threshold configuration of a test mapped to a single component in a segment	egdbcli -managerid <ManagerID> -test <TestName> -segment <SegmentName> -host <IP/Nick name of host> -port <PortNumber> -type Threshold	egdbcli -managerid md86 -test DiskSpace -segment seg1 -host web98 -port 80 -type Threshold

THE EG CLI COMMANDS FOR ACCESSING THE RAW DATA STORED IN THE EG DATABASE

Retrieving the threshold configuration of a test mapped to specific components in a segment	egdbcli -managerid <ManagerID> -test <TestName> -segment <SegmentName> -host <Comma-separated list of IP addresses/Nick names of hosts> -type Threshold	egdbcli -managerid md86 -test DiskSpace -segment seg1 -host web98,wl80 -type Threshold
Retrieving the threshold configuration of a test mapped to all components in a service	egdbcli -managerid <ManagerID> -test <TestName> -service <ServiceName> -type Threshold	egdbcli -managerid md86 -test DiskSpace -service ser1 -type Threshold
Retrieving the threshold configuration of a test that is mapped to the components in a segment that are associated with a service	egdbcli -managerid <ManagerID> -test <TestName> -segment <SegmentName> -service <ServiceName> -type Threshold	egdbcli -managerid md86 -test DiskSpace -service ser1 -segment seg1 -type Threshold
Retrieving the threshold configuration of a test mapped to a specific component in a service	egdbcli -managerid <ManagerID> -test <TestName> -service <ServiceName> -host <IP/Nick name of component> -port <PortNumber> -type Threshold	egdbcli -managerid md86 -test DiskSpace -service ser1 -host ad23 -port 389 -type Threshold
Retrieving the threshold configuration of a test mapped to specific hosts in a service	egdbcli -managerid <ManagerID> -test <TestName> -service <ServiceName> -host <Comma-separated list of IP addresses/Nick names of components> -type Threshold	egdbcli -managerid md86 -test DiskSpace -segment seg1 -host ad123,wl98 -type Threshold
Retrieving the threshold configuration of a specific test for components with nick names that match a specified set of search patterns	egdbcli -managerid <ManagerID> -test <TestName> -searchhost "<Comma-separated list of search patterns>" -type Threshold	egdbcli -managerid md86 -test DiskSpace -searchhost "*"*,win*,*ora*" -type Threshold
Retrieving the threshold configuration of a specific test with descriptors that match a specified set of search patterns	egdbcli -managerid <ManagerID> -test <TestName> -searchinfo "<Comma-separated list of search patterns>" -type Threshold	egdbcli -managerid md86 -test DiskSpace -searchinfo "*"C*,E" -type Threshold
Retrieving the threshold configuration of a specific test mapped to a particular component with descriptors that match a specified set of search patterns	egdbcli -managerid <ManagerID> -test <TestName> -host <IP/Nickname of component> -port <PortNumber> -searchinfo "<Comma-separated list of search patterns>" -type Threshold	egdbcli -managerid md86 -test DiskSpace -host exch -port 25 -searchinfo "*"C*,E" -type Threshold
Retrieving the threshold configuration of a particular test across components, and grouping the result set by a specific column in the threshold table	egdbcli -managerid <ManagerID> -test <TestName> -type Threshold -groupby <ColumnName>	egdbcli -managerid md86 -test network -type Threshold -groupby trgt_host

THE EG CLI COMMANDS FOR ACCESSING THE RAW DATA STORED IN THE EG DATABASE

Retrieving the threshold configuration of a particular test across components, and sorting the result set in the ascending/descending order of the contents of a particular column in the threshold table	egdbcli -managerid <ManagerID> -test <TestName> -type Threshold -orderby <ColumnName>	egdbcli -managerid md86 -test network -type Threshold -orderby desc
Requesting help with syntax while issuing commands for retrieving data from threshold tables	egdbcli Help Thresholdparameters	

Note:

- In the command, make sure that you use the correct names of tests and measures; however, note that the test names, measure names, parameter names, and parameter values used in the command are case-insensitive.
- While you can use either internal test names or the display names that are assigned to them in the command, internal measure names cannot be used in the command - the command should include only the display names that map to the internal measure names.
- By default, the date format setting of the eG database applies to all date inputs provided in the command - i.e., the values for the **-startDate** and **-endDate** command parameters should be of the date format that applies to the eG database.
- While issuing a command, if the values you provide for one/more command parameters embed white spaces, then such values should be enclosed within double-quotes. For instance, to retrieve the last recorded value of the measure *Packet loss* from the database, your command specification should be as follows:
egdbcli -managerid mid -test Network -measures "Packet loss"

1.5 Executing 'Select' Queries on Random Tables in the eG Database

Task	Command	Example
Executing a 'select' query on a database table	<code>egdbcli -managerid <ManagerID> -query "<SelectQuery>"</code>	<code>egdbcli -managerid mid -query "select * from user_serv"</code>

1.6 Determining the Success/Failure of a Command

The eG CLI indicates the success/failure of a command by returning a message to that effect. While the successful execution of a command is indicated by a message that begins with the string "**Result :**", when a command fails, an error message is returned, which typically begins with the string "**Error :**". This **Error** message also briefly describes the reason for the failure of the command.

For instance, if a component addition completes successfully, the eG CLI will return the following message:

Result : Query completed successfully.

Similarly, if a component could not be added owing to some reason, the CLI will return a message of this type:

Error : Improper command. ManagerID is mandatory.

Note:

Typically, the eG CLI displays the success/failure messages in the default language of the eG manager with which it connects. However, since the CLI logs into the eG manager as an **Admin** user, the language preference set by this user in his/her profile (in the eG web interface) will automatically override the default language setting of the manager; this implies that all messages returned by the CLI will be in the preferred language of the **Admin** user.

Conclusions

This document clearly explained the current capabilities of the eG DB CLI. Please note that these capabilities are not sacrosanct, and are liable to change based on customer feedback.