



# HP Operations Manager

Software Version: 9.11.130

UNIX and Linux operating systems

## Server Configuration Variables

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## In This Document

This document lists all variables that you can use to configure your HP Operations management server.

HPOM provides automatic reload of most configuration variables. This means that most configuration variables used in server processes are updated automatically each time the `ovconfchg` command is used. However, keep in mind that some configuration variables used in the server processes are exceptions and are not always reloaded. For example, the configuration variables that represent file and path names, queue and pipe names, port ranges, and pid files are rather set at process startup and are not usually reloaded automatically.

For more information about server configuration variables, see also the *Administrator's Reference*.

## List of Server Configuration Variables

### AGENT\_REQ\_NUM\_CRITICAL

Description : Sets a limit that will cause ovoareqsdr to stop to get restarted by ovcd later on. The purpose of this setting is to restart ovoareqsdr, which might hang in getaddrinfo().

Type/Unit : integer

Default : 0 (No such limit set)

Documented : N/A

Since Rel. : 09.11.110

Used In : namespace: opc

Search-Keys : ovoareqsdr, restart, too many agent requests

### AGENT\_REQ\_NUM\_WARNING

Description : Sets a limit that will trigger a message about an increased number of agent requests. The purpose of this setting is to detect a possibility that ovoareqsdr is stuck in getaddrinfo().

Type/Unit : integer

Default : 0 (No such limit set)

Documented : N/A

Since Rel. : 09.11.110

Used In : namespace: opc

Search-Keys : ovoareqsdr, warning, too many agent requests

### DATABASE

Description : Database name to which HPOM connects. To allow SQL\*Net connection. Connect string if <database> is empty: opc\_op/<passwd> else: opc\_op/<passwd>@<database>

Type/Unit : string

Default : ov\_net

Documented : N/A

Since Rel. : A.01.00

Used In : namespace: opc

Search-Keys : database name, API

### DB\_CHECK\_INTERVAL

Description : Check interval for count of DB messages. The check is done by opctlm/ovoareqsdr, and opctlm/ovoareqsdr will send a message if the number of messages is close to or over the number of messages as configured in the Database Maintenance Window.

Type/Unit : int , second

Default : 7200

Documented : N/A

Since Rel. :

Used In : namespace: opc

Search-Keys : ovoareqsdr, database maintenance, history message download,

#### **DISABLE\_SITESCOPE\_NODE\_MODIFICATION**

Description : If this parameter is set to TRUE, service discovery server ignores delete requests that is coming from SiteScope thus disabling modification of node's structure on OMU server. Nodes will not be deleted when monitors (for these nodes) on Site Scope are deleted.

Type/Unit : boolean

Default : FALSE

Documented : N/A

Since Rel. : 09.10.240

Used In : namespace: om.svcdiscserver

Search-Keys : discovery

#### **DOS\_ENABLED**

Description : Enables the DoS (Denial of Service) basic protection for opcuwww process.

Type/Unit : boolean

Default : FALSE

Documented : N/A

Since Rel. : A.08.12

Used In : namespace: opc

Search-Keys : opcuwww, DoS protection, security, Java GUI

#### **ECENG\_CLOCK\_INTERVAL**

Description : Global setting for ECS engine clocking time.

Type/Unit : ini , milli-second

Default : 1000

Documented : N/A

Since Rel. : A.03.00  
Used In : namespace: eaagt, opc  
Search-Keys : opcecm, ECS

#### **ECENG\_LOG\_LEVEL**

Description : ECS tracing level setting.  
Type/Unit : string , NONE,SEVERE,ERROR,WARN,FULL  
Default : FULL  
Documented : N/A  
Since Rel. : A.04.00  
Used In : namespace: eaagt, opc  
Search-Keys : opcecm, ECS, logging, trace

#### **ECENG\_TRACEFILE**

Description : Name of ECS trace file.  
Type/Unit : string  
Default : ecengtr  
Documented : N/A  
Since Rel. : A.03.00  
Used In : namespace: eaagt, opc  
Search-Keys : opcecm, ECS, logging, trace

#### **ECENG\_TRACE\_LEVEL**

Description : ECS tracing level setting.  
Type/Unit : string , NONE,FULL  
Default : NONE  
Documented : N/A  
Since Rel. : A.03.00  
Used In : namespace: eaagt, opc  
Search-Keys : opcecm, ECS, logging, trace

#### **ECENG\_TRACE\_RSIZE**

Description : 'Relative' file size for ECS trace file configuration.  
Type/Unit : int  
Default : 100  
Documented : N/A  
Since Rel. : A.03.00



Used In : namespace: eaagt, opc  
Search-Keys : opcecm, ECS, logging, trace

#### **ECEVI\_LOG\_RSIZ**

Description : 'Relative' file size of ECS event-input log configuration.  
Type/Unit : int  
Default : 100  
Documented : N/A  
Since Rel. : A.03.00  
Used In : namespace: eaagt, opc  
Search-Keys : opcecm, ECS, logging, trace

#### **ECEVO\_LOG\_RSIZ**

Description : 'Relative' file size of ECS event-output log configuration.  
Type/Unit : string  
Default : 100  
Documented : N/A  
Since Rel. : A.03.00  
Used In : namespace: eaagt, opc  
Search-Keys : opcecm, ECS, logging, trace

#### **ECM\_ANNO\_NODE**

Description : Setup add.l ECS annotate nodes on HPOM management server.  
See ECS 3.1 manual "Configuring Circuits for NNM and OVO".  
Type/Unit : string  
Default : ""  
Documented : N/A  
Since Rel. : A.07.00  
Used In : namespace: opc  
Search-Keys : opcecmas, ECS, annotate nodes

#### **ECM\_INSTANCE**

Description : Instance-number of HPOM's ECS engine on management server  
(opcecm).  
HPOM is assigned the ids 11 - 20.  
Type/Unit : int  
Default : 11

Documented : N/A  
Since Rel. : A.07.00  
Used In : namespace: opc  
Search-Keys : opcecm, opcecmas, ECS, instance number

#### ECM\_PERLFILE

Description : Name of perl script, which should be loaded into ECS engine for management server and should reside in the MGMT\_SV\_EC\_TEMPL\_DIR directory (\$OV\_VAR\_DIR/conf/OpC/mgmt\_sv/).  
Type/Unit : string  
Default : empty  
Documented : N/A  
Since Rel. : A.07.25.1; A.08.25  
Used In : namespace: opc  
Search-Keys : opcecm, ECS, perl script

#### EC\_MAX\_AS\_WAIT

Description : ECS engine waits EC\_MAX\_AS\_WAIT seconds to connect to annotate server at startup and at reconfiguration time to avoid race condition.  
Type/Unit : int (seconds)  
Default : 10  
Documented : N/A  
Since Rel. : A.07.00  
Used In : namespace: eaagt, opc  
Search-Keys : opcecmas, ECS, timeout, annotate server

#### EC\_MAX\_ESOK\_TRY

Description : Maximum number of retries attempts by ECS engine to connect to EC annotate server socket stack.  
Type/Unit : int  
Default : 20  
Documented : N/A  
Since Rel. : A.07.00  
Used In : namespace: eaagt, opc  
Search-Keys : opcecmas, ECS, retries, annotate server

#### EC\_SHOW\_TIMESTAMP

Description : If it is set to TRUE, timestamp information will be included in ecenglg and ecengtr files.  
Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : A.07.26; A.08.15  
Used In : namespace: opc  
Search-Keys : opcecm, timestamp, ecenglg, ecengtr

### ForwardingTargets

Description : Comma-separated list of target discovery forwarding servers (format: <server>:port,ï¿½)  
Type/Unit : string  
Default :  
Documented : N/A  
Since Rel. : 09.10.200  
Used In : namespace: om.svcdiscserver  
Search-Keys : discovery, forwarding, target

### HBP\_DFL\_TMOUT

Description : Default timeout for ping-packets which are used to check whether a node is running. Once a response is received, timeout is calculated as 3 \* response time.  
Type/Unit : int , second , >= 1  
Default : 20  
Documented : N/A  
Since Rel. : A.02.00  
Used In : namespace: opc  
Search-Keys : ovoareqsdr, HBP, ping packet, timeout, node, alive

### HBP\_MAX\_RETRY

Description : Number of ping-packets to be sent to a managed node, before this node is assumed to be down.  
Type/Unit : int , >= 1  
Default : 3  
Documented : N/A  
Since Rel. : A.02.00  
Used In : namespace: opc

Search-Keys : ovoareqsdr, HBP, ping packet, retry

#### **HBP\_NOT\_IN\_TIME**

Description : Generate a warning, if heartbeat-polling could not be performed in time (for example, due to excessive system load). The warning is only written to the trace file.

Type/Unit : int , second

Default : 1800

Documented : N/A

Since Rel. : A.02.00

Used In : namespace: opc

Search-Keys : ovoareqsdr, HBP, ndoe down, unreachable

#### **JGUI\_API\_ENABLED**

Description : Enable the Java GUI Remote APIs by setting a JGUI\_API\_ENABLED variable in a configuration file on the HPOM management server.

Type/Unit : bool

Default : FALSE

Documented : N/A

Since Rel. : A.08.35.010

Used In : namespace: opc

Search-Keys : opcuwww, API, Java GUI API

#### **JGUI\_MULTISTATUS\_ENABLED**

Description : Enable operational service view support for the Java GUI client.

Type/Unit : boolean

Default : FALSE

Documented : N/A

Since Rel. : A.08.10

Used In : namespace: opc

Search-Keys : opcsvcm, service navigator, Java GUI,

#### **LOG\_LEVEL**

Description : LogLevel 1 : Logs only errors  
LogLevel 3 : Logs errors and information (including raw data received from the agent)

LogLevel 10: Logs tracing information like method parameters for debugging purposes

Type/Unit : integer  
Default : 3  
Documented : N/A  
Since Rel. : A.09.10  
Used In : namespace: om.svcdiscserver  
Search-Keys : discovery, log

#### MAX\_ALIVE\_TIMEOUT

Description : The setting is used together with OPC\_HTTPS\_MSG\_FORWARD=TRUE. Determines after which time a message is generated, if a target server is unreachable.

Type/Unit : int (in seconds)  
Default : 60  
Documented : N/A  
Since Rel. : A.08.29  
Used In : namespace: opc.opcforwm  
Search-Keys : opcforwm, MoM, message forwarding, alive, timeout, unreachable

#### MAX\_CONNECTIONS

Description : The maximum number of simultaneous connections to opcuhttps. Clients are usually Java GUI consoles, but can also be web browsers.

Type/Unit : integer  
Default : 100  
Documented : N/A  
Since Rel. : A.08.14  
Used In : namespace: opc.opcuhttps  
Search-Keys : opcuhttps, HTTPS, Java GUI

#### MGR\_RQS\_BUFFER\_PERIOD

Description : Maximum age of Open Agent requests or action requests before they are regarded as 'timed out', once the Request Sender comes up after a downtime. If requests are not 'timed out', ovoareqsdr tries to forward them to their target nodes.

Type/Unit : int , second, > 3600  
Default : 259200 (3 days)

Documented : N/A  
Since Rel. : A.04.00  
Used In : namespace: opc  
Search-Keys : ovoareqsdr, HBP, action request, timeout

#### **OPCRAGT\_MAX\_THREADS**

Description : requires that OPCRAGT\_USE\_THREADS is set to TRUE.  
Defines how many agents can be contacted in parallel by  
opcragt (one thread per target node).  
OS-specific limits can be configured via kernel parms for  
max # of threads per process, e. g. 1024 on HPUX PA-RISC.

Type/Unit : int, # of threads  
Default : 50  
Documented : N/A  
Since Rel. : A.08.27  
Used In : namespace: opc  
Search-Keys : opcragt, performance, threads, parallel

#### **OPCRAGT\_MAX\_THREADS\_TOTAL**

Description : requires that OPCRAGT\_USE\_THREADS is set to TRUE.  
Since cancelling timed out threads leads to issues,  
opcragt simply ignores a timed out thread and starts  
a new one. To avoid that too many threads are started  
this setting allows to limit the total number of  
opcragt threads including timed out threads.

Type/Unit : int, # of threads  
Default : 900  
Documented : N/A  
Since Rel. : 09.10.240  
Used In : namespace: opc  
Search-Keys : opcragt, performance, threads, parallel

#### **OPCRAGT\_OMIT\_ERROR\_AGT\_NOT\_INST**

Description : If opcragt is distributing configuration to a node where  
agent software is marked as not installed or to be updated,  
warning OpC40-730 is displayed.  
Setting OPCRAGT\_OMIT\_ERROR\_AGT\_NOT\_INST to TRUE will result  
in displaying this warning only if the agent software is not  
installed at all - i.e. it will not display the warning if  
agent software has to be updated only.

Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : 09.10.220  
Used In : namespace: opc  
Search-Keys : opcragt, error, logging

#### **OPCRAGT\_START\_TIMEOUT**

Description : requires that OPCRAGT\_USE\_THREADS is set to TRUE.  
Timeout for an opcragt -start call.  
Type/Unit : int, # of seconds  
Default : 0 (use OPCRAGT\_TIMEOUT)  
Documented : N/A  
Since Rel. : 09.10.240  
Used In : namespace: opc  
Search-Keys : opcragt, timeout

#### **OPCRAGT\_STOP\_TIMEOUT**

Description : requires that OPCRAGT\_USE\_THREADS is set to TRUE.  
Timeout for an opcragt -stop call.  
Type/Unit : int, # of seconds  
Default : 0 (use OPCRAGT\_TIMEOUT)  
Documented : N/A  
Since Rel. : 09.10.240  
Used In : namespace: opc  
Search-Keys : opcragt, timeout

#### **OPCRAGT\_TIMEOUT**

Description : requires that OPCRAGT\_USE\_THREADS is set to TRUE.  
Timeout for an agent connection. If the operation for a node is not finished within the timeout specified, it is considered as failed and "cancelled (timeout)" is written as failure reason. Since cancelling a thread may lead to issues with shared resources, opcragt will simply ignore this thread and start a new one.  
Type/Unit : int, # of seconds  
Default : 600 (10 Minutes)  
Documented : N/A  
Since Rel. : 09.10.240

Used In : namespace: opc  
Search-Keys : opcragt, timeout, connection

### OPCRAGT\_USE\_THREADS

Description : tell opcragt to use multiple threads (one thread per target node). Huge performance improvement, nearly linear to # of threads (default 50 threads). Multi-threading is applied on command-line options -status, -primmgr, -start, -stop, -get\_config\_var, -set\_config\_var, -agent\_version, -running\_as\_user. Not applied on -dist and on Windows-agent installation related options.

OPCRAGT\_USE\_THREADS also enables the feature that unreachable agents are logged in /var/opt/OV/share/tmp/OpC/mgmt\_sv/ \opcragt-<command>-failed.log, where <command> is one of the options like -status etc as listed above.

Note: each agent connection requires an own source port on the mgmt server. Means that source port ranges - if used at all - must be enhanced appropriately (bbc.http:CLIENT\_PORT for HTTPS; in addition the corresponding firewall rules must be adapted). However, source-port ranges are used very rarely on the OMU server.

Note: the connect-timeout to check whether a system is reachable or not depends on a global system setting and can be checked by # ndd -get /dev/tcp tcp\_ip\_abort\_cinterval and changed by # ndd -set /dev/tcp tcp\_ip\_abort\_cinterval <val\_in\_millisec> There's no way to timeout opcragt earlier, if a certain node isn't reachable. However to contact about 1000 unreachable nodes with OPCRAGT\_MAX\_THREADS 100 just took around 10 min with a tcp\_ip\_abort\_cinterval of 60 seconds.

Note: the OPCRAGT\_USE\_THREADS flag also enables the feature that you can view complete HTTPS agent namespaces with the -get\_config\_var option. A ":" must be suffixed to the name: # opcragt -get\_config\_var eaagt: -all would list all settings from namespace eaagt on all nodes.

Type/Unit : bool  
Default : TRUE  
Documented : N/A  
Since Rel. : A.08.27  
Used In : namespace: opc  
Search-Keys : opcragt, performance, threads, parallel



#### **OPCSVCM\_REGISTER\_RETRIES**

Description : Under some circumstances opcsvcam fails to register to service events right after connecting to opcsvcam. This variable specifies how often opcsvcam retries to register to service events after succesful connecting to opcsvcam.

Type/Unit : int  
Default : 5  
Documented : N/A  
Since Rel. : A.08.29  
Used In : namespace: opc  
Search-Keys : opcsvcam, service action manager, error, logging

#### **OPCSVCM\_REGISTER\_RETRY\_INTERVAL**

Description : Under some circumstances opcsvcam is not triggering auto action because it does not register events from seadapter in case of a large service hierarchy.

This variable specifies the timeout interval in seconds in which opcsvcam register events from seadapter.

Type/Unit : int  
Default : 5  
Documented : N/A  
Since Rel. : A.08.34  
Used In : namespace: opc  
Search-Keys : opcsvcam, service action manager, error, logging

#### **OPCSVCM\_ASYNC\_MODE**

Description : Disables the implicit write through for all configuration changes for the service repository.

Type/Unit : boolean  
Default : FALSE  
Documented : N/A  
Since Rel. : A.07.12  
Used In : namespace: opc  
Search-Keys : opcsvcm, service manager, performance

#### **OPCSVCM\_MSGSVNAME\_DEFAULT**

Description : opcmsgm generates an automatic service name for all messages which do not have a service name set if value is set to TRUE. The service name takes the following form:  
"<MSG\_APPL>:<MSG\_OBJECT>@@<MSG\_NODENAME>"

Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : A.07.10  
Used In : namespace: opc  
Search-Keys : opcmsgm, SNVP, service name

#### **OPCSVCM\_MSGSVCNAME\_FIXED**

Description : If set, then opcmsgm generates it as service name for all messages which have no service name. This setting works only, if OPCSVCM\_MSGSVCNAME\_DEFAULT is TRUE.

Type/Unit : string  
Default : ""  
Documented : N/A  
Since Rel. : A.07.10  
Used In : namespace: opc  
Search-Keys : opcmsgm, SNVP, service name

#### **OPCUIWWW\_APP\_C\_SORT**

Description : Defines if sorting of the applications/tools, nodes and message groups in Java GUI should depend on LC\_COLLATE of HPOM server. If this variable is set to TRUE, sorting does not depend on LC\_COLLATE but on binary comparison.

Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : 09.11.040  
Used In : namespace: opc  
Search-Keys : opcuiwww, sort, tools, application, node, message group, Java GUI

#### **OPCUIWWW\_BULK\_MODE**

Description : Messages in the Java GUI are acknowledged, unacknowledged, owned, or disowned in one single bulk operation.

Type/Unit : bool  
Default : TRUE  
Documented : N/A

Since Rel. : A.08.22  
Used In : namespace: opc  
Search-Keys : opcuiwww, bulk, Java GUI

#### **OPCUIWWW\_CONFIG\_UPDATE\_DELAY**

Description : Delay in seconds between reading a config change event and reading the data from the database and updating the Java GUI. The purpose of this delay is to collect multiple config changes within a short time into one update request for the Java GUI.

Type/Unit : int  
Default : 2  
Documented : N/A  
Since Rel. : 09.01.320  
Used In : namespace: opc  
Search-Keys : opcuiwww, performance, Java GUI

#### **OPCUIWWW\_DISABLE\_NOTIF\_ONLY\_AUTO\_RECONNECT**

Description : This variable is used to control the behavior of the Java GUI when OPCUIWWW\_DISABLE\_ONLINE\_CONFIG\_SYNC is set to DISABLE\_NOTIF\_ONLY.

In this case, setting OPCUIWWW\_DISABLE\_NOTIF\_ONLY\_AUTO\_RECONNECT to TRUE results in the Java GUI reconnecting automatically after major configuration changes take place (without the operator being informed about the changes).

Type/Unit : boolean  
Default : FALSE  
Documented : N/A  
Since Rel. : 09.11.040  
Used In : namespace: opc  
Search-Keys : opcuiwww, Java GUI, automatic reconnect

#### **OPCUIWWW\_DISABLE\_ONLINE\_CONFIG\_SYNC**

Description : Disable the OM 9.x online config update of the Java GUIs feature. If set to TRUE, Java GUIs will not be notified about config changes. The Java GUI user needs to manually re-load the configuration to see the latest configuration changes (like newly added nodes). This could for example be used together with the Inform Operators functionality in the Administration UI or the opcwall command. The administrator could tell the operators that they need to reload their configuration after he is done

with some config changes.

If set to `DISABLE_NOTIF_ONLY`, this option will only disable the notification dialog, config sync will still be performed.

Possible values:

`TRUE`

`FALSE`

`DISABLE_NOTIF_ONLY`

Type/Unit : string  
Default : FALSE  
Documented : Release Notes  
Since Rel. : 09.01.320, 09.10.220  
Used In : namespace: opc  
Search-Keys : opcuiwww, config change, Java GUI

#### **OPCUIWWW\_DISCONNECT\_TIMEOUT**

Description : Disconnect timeout for the Java GUI background process `opcuiwww`. If there was no request from the Java GUI client in more than `OPCUIWWW_DISCONNECT_TIMEOUT` seconds, `opcuiwww` will close the connection.  
The Java GUI client sends a request at every refresh interval (by default 30 seconds). So if there was no request in a long time, there is a good chance, the Java GUI client is unreachable or completely hung.  
This setting is especially for cases where the Java GUI client is accessed via VPN. If the VPN connection is lost and re-established, the VPN server may assign a different IP address, and thus `opcuiwww` would wait forever for the Java GUI client to connect again, potentially interfering with the new Java GUI client connection with the new IP address.  
Good values for this timeout are 120 (two minutes) or 300 (five minutes). Using a too low value may lead to a Java GUI disconnect due to long lasting tasks.

Type/Unit : int (seconds)  
Default : 0 (disabled)  
Documented : Release Notes  
Since Rel. : 09.11.120  
Used In : namespace: opc  
Search-Keys : opcuiwww, Java GUI, disconnect, timeout

#### **OPCUIWWW\_FILTER\_RELATIVE\_TIME\_INTERVAL**

Description : Applies to relative time filtering.

It specifies the time interval after which all messages in all message browsers with relative time filter will be reevaluated.

Since this feature represents a performance impact, it will be set to 60 sec by default.

Type/Unit : integer  
Default : 60  
Documented : N/A  
Since Rel. : A.08.34  
Used In : namespace: opc  
Search-Keys : opcuiwww, Java GUI, filtering, performance

#### **OPCUIWWW\_FILTER\_RELATIVE\_TIME\_RECALC**

Description : Applies to relative time filtering.  
If enabled, opcuiwww will use new relative time filtering. Messages will be reevaluated according to the time interval specified by variable OPCUIWWW\_FILTER\_RELATIVE\_TIME\_INTERVAL.  
Since this feature represents a performance impact, it will be disabled by default.

Type/Unit : bool  
Default : FALSE  
Documented : Release Notes  
Since Rel. : A.08.34  
Used In : namespace: opc  
Search-Keys : opcuiwww, Java GUI, filtering, performance

#### **OPCUIWWW\_INPUT\_BUFFER\_LIMIT**

Description : Applies to DoS protection of opcuiwww. Defines the limit of the input buffer on the socket. The size of the request is read from the request header. If the size exceeds the buffer limit, an error is reported to System.txt, and the connection (and the opcuiwww process) is closed. Effective together with DOS\_ENABLED variable.

Type/Unit : integer  
Default : 4096  
Documented : N/A  
Since Rel. : A.08.12  
Used In : namespace: opc  
Search-Keys : opcuiwww, DoS protection, security, Java GUI

#### **OPCUIWWW\_KILL\_APP**

Description : Applies to starting tools and prevents hanging opcuiwww(s) without Java GUI reconnect.  
If enabled, opcuiwww will start a new thread that will close application/tool opcuiwww(s) after specified timeout period. Timeout is specified by variable OPCUIWWW\_KILL\_APP\_TIMEOUT. After the opcuiwww has been closed it will send a reply back to Java GUI with status 2, which means "application timeout".

Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : 09.10.230  
Used In : namespace: opc  
Search-Keys : opcuiwww, Java GUI, tools

#### **OPCUIWWW\_KILL\_APP\_TIMEOUT**

Description : Applies to starting tools and prevents hanging opcuiwww(s) without Java GUI reconnect.  
It specifies the timeout interval (in minutes) after which each started tool (opcuiwww process) will be closed.

Type/Unit : integer  
Default : 10  
Documented : N/A  
Since Rel. : 09.10.230  
Used In : namespace: opc  
Search-Keys : opcuiwww, Java GUI, tools

#### **OPCUIWWW\_LIB\_PATH**

Description : Specifies library path to be exported as LD\_LIBRARY\_PATH when running opcuiwww.

Type/Unit : string  
Default : none  
Documented : Release Notes  
Since Rel. : 09.11.130, 09.20.310  
Used In : namespace: opc  
Search-Keys : opcuiwww, Oracle 12c

#### **OPCUIWWW\_MAX\_CONNECTION**

Description : Applies to DoS protection of opcuiwww. Defines the maximum number of simultaneous connections to opcuiwww - effectively

this is the maximum number of opcuwww processes that can be started. Effective together with DOS\_ENABLED variable.

Type/Unit : integer  
Default : 100  
Documented : N/A  
Since Rel. : A.08.12  
Used In : namespace: opc  
Search-Keys : opcuwww, DoS protection, security

#### **OPCUIWWW\_MPAS**

Description : Defines whether opcuwww.mpas instead of opcuwww is run by opcuwww.sh on HP-UX. opcuwww.mpas is build with MPAS address space model and can use up to 4G

Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : 09.10.240  
Used In : namespace: opc  
Search-Keys : opcuwww, MPAS, memory, HP-UX only

#### **OPCUIWWW\_MSG\_CHUNK\_MODE**

Description : Messages from opcuwww to the Java GUI are sent in chunks of N messages instead of being sent in a single reply.

Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : A.08.35.010  
Used In : namespace: opc  
Search-Keys : opcuwww, Java GUI, performance

#### **OPCUIWWW\_MSG\_CHUNK\_SIZE**

Description : Number of messages sent in a single chunk.

Type/Unit : integer  
Default : 1000  
Documented : N/A  
Since Rel. : A.08.35.010  
Used In : namespace: opc  
Search-Keys : opcuwww, Java GUI, performance

### **OPCUIWWW\_NEW\_MSG\_NO\_DB**

Description : opcuiwww receives the complete message from opcdispn rather than just the message ID.

Type/Unit : bool

Default : TRUE

Documented : N/A

Since Rel. : A.08.22

Used In : namespace: opc

Search-Keys : opcuiwww, Java GUI, performance

### **OPCUIWWW\_NORESP\_SVCMSG**

Description : Java GUI operators can see and operate on messages due to their assigned services even if the messages do not match the responsibility matrix.  
Since A.06.01 you can set OPCUIWWW\_NORESP\_SVCMSG to READONLY so that all operators can see these messages but not modify them.  
Possible values:  
- TRUE (since A.07.10):  
The operator does not see any service messages that are not assigned through the responsibility matrix.  
- FALSE (since A.06.00):  
The operator sees all messages assigned through the responsibility matrix as well as all service messages assigned through opcservice.  
- READONLY (since A.06.01):  
The operator sees all messages assigned through the responsibility matrix as well as all service messages assigned through opcservice. However, service messages that are not assigned through the responsibility matrix are seen as read-only messages.

Type/Unit : string

Default : FALSE (A.06.00), TRUE (A.07.10)

Documented : N/A

Since Rel. : A.06.01

Used In : namespace: opc

Search-Keys : opcuiwww, Java GUI, responsibility, service, message

### **OPCUIWWW\_NO\_LDAP**

Description : If OPC\_USE\_PAM\_AUTH is set to TRUE, opcuiwww.sh uses by default opcuiwww.ldap which is linked with LDAP and Kerberos libraries



instead of the regular `opcuiwww`. However, these system LDAP libraries can clash with the Oracle LDAP functions if LDAP is used with Oracle.  
For cases where PAM is used, but not with LDAP nor Kerberos, this config setting was introduced. By setting `OPCUIWWW_NO_LDAP` to `TRUE`, the regular `opcuiwww` is used even though `OPC_USE_PAM_AUTH` is set to `TRUE`.

Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : 09.11.130/09.20.310  
Used In : namespace: opc  
Search-Keys : `opcuiwww`, authentication, security, Java GUI, Administration UI,

#### **OPCUIWWW\_ONE\_CONNECTION**

Description : Applies to DoS protection of `opcuiwww`. Defines the maximum number of connections to `opcuiwww` from a single host. Effective together with `DOS_ENABLED` variable.

Type/Unit : integer  
Default : 30  
Documented : N/A  
Since Rel. : A.08.12  
Used In : namespace: opc  
Search-Keys : `opcuiwww`, DoS protection, security, Java GUI

#### **OPCUIWWW\_PORT**

Description : The `opcuiwww` port number as defined in `/etc/services`, `ito-e-gui` entry. Used by `opcuihttps` (Java GUI HTTPS communication proxy process) to start `opcuiwww` processes.

Type/Unit : integer  
Default : 2531  
Documented : N/A  
Since Rel. : A.08.14  
Used In : namespace: `opc.opcuihttps`  
Search-Keys : `opcuihttps`, HTTPS, Java GUI, port number

#### **OPCUIWWW\_TIMEOUT**

Description : Applies to DoS protection of `opcuiwww`. Sets the timeout for inactivity on the socket. A valid request must come to socket within the specified time (measured from the initial

connection), otherwise opcuwww logs an error and exits.  
Effective together with DOS\_ENABLED variable.

Type/Unit : integer (seconds)  
Default : 5  
Documented : N/A  
Since Rel. : A.08.12  
Used In : namespace: opc  
Search-Keys : opcuwww, DoS protection, security, Java GUI

#### **OPCUIWWW\_USE\_NEW\_RESP\_MATRIX\_CODE**

Description : If the value of OPCUIWWW\_USE\_NEW\_RESP\_MATRIX\_CODE is set to TRUE, a different algorithm is used for loading messages when an operator logs in Java GUI. The algorithm reduces the time it takes for Java GUI to load messages with big responsibility matrix (the operator has several thousand nodes assigned to them). Note that this will have no effect if message view filters are used in JGUI or if message load policy is not set to static.

Type/Unit : boolean  
Default : FALSE  
Documented : N/A  
Since Rel. : 09.10.230  
Used In : namespace: opc  
Search-Keys : opcuwww, Java GUI, performance, responsibility, messages

#### **OPC\_ACCEPT\_ACTION\_SIGNATURES\_FROM**

Description : A comma-separated list of foreign srv core-ids, used in MoM environment to inform the current mgmt server that additional action signatures in the list can be accepted.

Example to add a foreign server core ID:

```
ovconfchg -ovrg server -ns opc \
-set OPC_ACCEPT_ACTION_SIGNATURES_FROM \
cd04201e-295a-7507-1fbd-890eb6333944
```

Type/Unit : string  
Default : ""  
Documented : N/A  
Since Rel. : A.08.30  
Used In : namespace: opc  
Search-Keys : opcmsgm, MoM, action signature, security

#### **OPC\_ACCEPT\_CTRL\_SWTCH\_ACKN**

Description : M2M message forwarding flag: Accept acknowledgement of a controlled message through a remote HPOM server.  
Type/Unit : bool  
Default : TRUE  
Documented : N/A  
Since Rel. : A.04.00  
Used In : namespace: opc  
Search-Keys : opcmsgm, MoM, message forwarding, aknowledgement

#### **OPC\_ACCEPT\_CTRL\_SWTCH\_MSGS**

Description : M2M message forwarding flag: Accept reception of a controlled message from a remote HPOM server.  
Type/Unit : bool  
Default : TRUE  
Documented : N/A  
Since Rel. : A.04.00  
Used In : namespace: opc  
Search-Keys : opcmsgm, MoM, message forwarding, duplicate message suppression

#### **OPC\_ACCEPT\_MSG\_COUNT**

Description : Can be used to switch off reception of message count information (suppress duplicate messages on management server) sent via manager to manager message forwarding on target manager.  
Type/Unit : bool  
Default : TRUE  
Documented : N/A  
Since Rel. : A.06.00  
Used In : namespace: opc  
Search-Keys : opcmsgm, MoM, message forwarding, duplicate message suppression

#### **OPC\_ACCEPT\_MSG\_MODIFY**

Description : Can switch off reception of message modify information (operator changes message text and/or severity) sent via manager to manager message forwarding on target manager.  
Type/Unit : bool

Default : TRUE  
Documented : N/A  
Since Rel. : A.07.24  
Used In : namespace: opc  
Search-Keys : opcmsgm, MoM, message forwarding, message changes

#### **OPC\_ACCEPT\_NOTIF\_ACKN**

Description : M2M message forwarding flag: Accept reception of an acknowledge request for a read-only message from a remote HPOM server.  
Type/Unit : bool  
Default : TRUE  
Documented : N/A  
Since Rel. : A.07.24  
Used In : namespace: opc  
Search-Keys : opcmsgm, MoM, message forwarding, read-only, acknowledge

#### **OPC\_ACCEPT\_NOTIF\_MSGS**

Description : M2M message forwarding flag: Accept reception of a read-only message from a remote HPOM server.  
Type/Unit : bool  
Default : TRUE  
Documented : N/A  
Since Rel. : A.04.00  
Used In : namespace: opc  
Search-Keys : opcmsgm, MoM, message forwarding, read-only

#### **OPC\_ACCEPT\_OWN\_DISOWN**

Description : Can switch off reception of message-own/disown information (operator owns/disowns message) sent via manager to manager message forwarding on target manager.  
Type/Unit : bool  
Default : TRUE  
Documented : N/A  
Since Rel. : A.06.00  
Used In : namespace: opc  
Search-Keys : opcmsgm, MoM, message forwarding, message ownership

#### **OPC\_ACK\_COMMIT\_COUNT**

Description : Commit count for acknowledge/unacknowledge. After every OPC\_ACK\_COMMIT\_COUNT messages, a commit is done to release locks.

Type/Unit : int

Default : 100

Documented : N/A

Since Rel. : A.05.00

Used In : namespace: opc

Search-Keys : opcmsgm, opcack, opcuwww, opcackmsg, opcackmsg, opcactm, API

#### **OPC\_ACK\_DUPLS\_IF\_NORMAL\_MSG**

Description : With this setting set to TRUE, only the behavior of handling messages of normal severity, which are according to the message key duplicates of messages of non-normal severities, is changed. When a new message of normal severity, that is according to message key a duplicate of a message of non-normal severity, is received, the following happens:

- instead of updating the duplicate count, the message of non-normal severity is acknowledged and
- the new message of normal severity goes straight to history.

This works even without any message key correlation being defined (if one is defined, it is ignored). For messages of normal severity that are not duplicates, the message key correlation works unchanged. For messages of non-normal severity, suppress/count duplicates with updating of text and severity works unchanged. Suppress and Count Duplicate Messages must be enabled for this setting to work.

Type/Unit : bool

Default : FALSE

Documented : N/A

Since Rel. : 09.10.210

Used In : namespace: opc

Search-Keys : opcmsgm, duplicate message suppression, message key relation

#### **OPC\_ACK\_MOVE\_INTERVAL**

Description : Interval in seconds after which the opcdbmsgmv process is started by opcctlm/ovoareqsdr to move marked messages to the history tables. If set to 0, the message move is disabled.

Type/Unit : int

Default : 7200

Documented : N/A

Since Rel. : A.05.00  
Used In : namespace: opc  
Search-Keys : ovoareqsdr, opcdbmsgmv, performance

#### **OPC\_ACTM\_RQST\_GATEWAY\_AS\_SRC**

Description : For action requests that are sent to agents, the gateway address is used as the source - and not the management server's 'main' IP address. This allows different addresses to be used for nodes in different subnets when the management server is the gateway itself.

Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : A.06.03  
Used In : namespace: opc  
Search-Keys : opcactm, gateway configuration, action, source IP

#### **OPC\_ALLOW\_DUPLICATE\_IP**

Description : By default OMU will not allow to add a node to the node bank if a node with the same IP address already exists. However, in some service provider environments this is necessary. By setting OPC\_ALLOW\_DUPLICATE\_IP to TRUE, OMU will allow duplicate IP addresses. The different nodes with the same IP address will need to be reached via HTTP proxy. See the HPOM Administrator's Reference for more information.

Type/Unit : bool  
Default : FALSE  
Documented : Release Notes  
Since Rel. : A.09.10  
Used In : namespace: opc  
Search-Keys : opcmsgm, ovoareqsdr, opcdispn, opcuwww, opcforwm, opcchgaddr,

#### **OPC\_ALWAYS\_KEEP\_CURRENT\_POLICY\_STATUS**

Description : While distributing a policy to a node on which the policy was already distributed and disabled, the policy status will remain disabled by default only if the same version of the policy is being distributed. Setting OPC\_ALWAYS\_KEEP\_CURRENT\_POLICY\_STATUS to TRUE will always cause the policy status to remain disabled even if a new version of the policy is distributed.

Type/Unit : boolean  
Default : FALSE  
Documented : N/A  
Since Rel. : 09.10.220  
Used In : namespace: opc  
Search-Keys : opcbbcdist, policy distribution, enable, disable

#### **OPC\_API\_DONT\_USE\_AGT\_POLTYPE**

Description : Don't consider agent policy type when checking if a policy can be assigned to a policy group (opcpolicy won't allow to assign a policy to a policy group if a policy with the same name and same agent policy type is already assigned).

Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : 09.11.040  
Used In : namespace: opc  
Search-Keys : API, policy type, policy group, assignment

#### **OPC\_API\_INSTRIF\_TIMEOUT**

Description : Timeout for an action to resolve an instruction interface in the opcmsg\_get\_instructions() API, which is used by the Web Services and OMi to get instructions from OMU.

Type/Unit : int  
Default : 120  
Documented : N/A  
Since Rel. : 09.10.230  
Used In : namespace: opc  
Search-Keys : API, OMi, Web Services, instruction interface, timeout

#### **OPC\_API\_NO\_INSTR\_IF**

Description : Before version 9.10.230, the opcmsg\_get\_instructions() API did not resolve instruction interface instructions. This has been added with 9.10.230. Now the API will run the specified instruction interface action. By setting OPC\_API\_NO\_INSTR\_IF it is possible to get the old behavior (don't resolve instruction interface).

Type/Unit : bool  
Default : FALSE  
Documented : N/A

Since Rel. : 09.10.230  
Used In : namespace: opc  
Search-Keys : API, instruction interface

#### **OPC\_API\_NO\_NODE\_DEL\_ACK**

Description : By default, the messages for a node are acknowledged when a node is deleted. If OPC\_API\_NO\_NODE\_DEL\_ACK is set to TRUE, the messages for the node are not acknowledged when a node is deleted. This avoids lock conflicts between opcmsgm and opcsvcdisc (topo sync).

Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : 09.11.110  
Used In : namespace: opc  
Search-Keys : API

#### **OPC\_AUTOSET\_SERVICE\_EARLY**

Description : This setting only has an effect if service name auto setting is enabled (OPCSVCM\_MSGSVCNAME\_DEFAULT is set to TRUE). When it is desirable to have service name auto setting before writing to the MSI, set OPC\_AUTOSET\_SERVICE\_EARLY to TRUE. Otherwise, the default behavior is that service name auto setting occurs after sending the messages to the MSI.

Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : A.07.26  
Used In : namespace: opc  
Search-Keys : opcmsgm, service name, MSI

#### **OPC\_AUTO\_DEBUFFER**

Description : Scheduled-outage related. Automatically move messages from pending- to active-messages-browser (and DB-table) after outage time is over. If set to FALSE, all pending messages need to be manually unbuffered (in the pending messages browser).

Type/Unit : bool  
Default : TRUE  
Documented : N/A



Since Rel. : A.05.00  
Used In : namespace: opc  
Search-Keys : opcmsgm, buffering messages, outage

#### **OPC\_BBCDIST\_RETRY\_INTERVAL**

Description : Time interval for opcbbcdist to provide retry when node is not reachable.  
Type/Unit : int, second  
Default : 1800  
Documented : N/A  
Since Rel. : A.08.00  
Used In : namespace: opc  
Search-Keys : opcbbcdist, distribution, retry interval, performance

#### **OPC\_CFGDWN\_OMIT\_VIRTUAL\_GROUP\_DOWNLOAD**

Description : If OPC\_CFGDWN\_OMIT\_VIRTUAL\_GROUP\_DOWNLOAD is set to FALSE, information about physical nodes will also be included in the download data for virtual nodes selected for download.  
Type/Unit : boolean  
Default : FALSE  
Documented : N/A  
Since Rel. : A.09.10  
Used In : namespace: opc  
Search-Keys : opccfgdwn, virtual node, configuration download

#### **OPC\_CFGUPLD\_BLOCK\_RETRY**

Description : All config APIs are blocked when opccfgupld is running. This variable controls blocking mode, which can be:  
  
1: exit immediately with error if opccfgupld is running  
  
N: repeat N times before exiting with error,  
  
-1: repeat indefinitely - wait until opccfgupld finishes then perform API operation.  
  
Type/Unit : integer  
Default : 1 (OMU9)  
Documented : N/A  
Since Rel. : A.09.00

Used In : namespace: opc  
Search-Keys : opcuwww, API, opccfgupld, configuration upload, block, retry

#### **OPC\_CFGUPLD\_ONLINE\_SVC\_UPDATE**

Description : Enable online update of service engine configuration.  
If the value of OPC\_CFGUPLD\_ONLINE\_SVC\_UPDATE is set to TRUE, service engine configuration (services and service logging) is updated online, without having to restart the service engine (opcsvcm).

Type/Unit : boolean  
Default : FALSE  
Documented : N/A  
Since Rel. : 09.10.200  
Used In : namespace: opc  
Search-Keys : opcsvcm, opccfgupld, service engine, online update,

#### **OPC\_CFG\_CHAR\_SET\_ASCII**

Description : If set, it has the same effect as the -ascii option of opccfgupld. Useful when configuration data has to be uploaded, from an English development system to a non-ISO8859-15 management server. Has an impact on nodes and templates.  
You do not need to change existing scripts which use opccfgupld by adding the -ascii option but can also set this variable.

Type/Unit :  
Default : FALSE  
Documented : N/A  
Since Rel. : A.07.00  
Used In : namespace: opc  
Search-Keys : opcagtdbcfg, opccfgupl, ASCII, L10N, character set

#### **OPC\_CFG\_INTEG\_TIMEOUT**

Description : Default timeout in seconds for each integration program execution from opccfgupld and opccfgdwn processes. A value of 0 means that there is no timeout set. If set into opc.opccfgupld or opc.opccfgdwn namespace the timeout will be set only for opccfgupld or opccfgdwn processes respectively instead for both processes.

Type/Unit : int , second

Default : 60  
Documented : N/A  
Since Rel. : 09.10.250  
Used In : namespace: opc  
Search-Keys : opccfgupld, opccfgdwn, configuration upload, configuration download,

#### **OPC\_CHECK\_READFILE**

Description : If set to FALSE, the READFILE (file to be read) is not checked when the EXEFILE (file to be executed) is specified in the logfile template.  
Type/Unit : bool  
Default : TRUE  
Documented : Release Notes  
Since Rel. : A.08.29  
Used In : namespace: opc  
Search-Keys : logfile template, READFILE, Administration UI, syntax check,

#### **OPC\_COMM\_USEIP\_URI**

Description : An IP address will be used instead of a hostname in URIs (server -> HTTPS agent comm.) when set to:  
- ALWAYS : use IP address in URI unconditionally  
- PROXY\_ONLY : use IP address in URI only if a proxy is configured for this address. Variable PROXY in bbc.http namespace is checked  
( similar to 'bbcutil -gettarget <address>' )  
The need for an IP string instead of a hostname inside the URIs is given only in proxy environments.  
By default OMU always uses a hostname in requests except when granting a certificate but this can be changed by setting OPC\_CSA\_USE\_HOSTNAME\_IN\_REQUESTS variable.  
Type/Unit : string  
Default : FALSE  
Documented : N/A  
Since Rel. : A.08.34  
Used In : namespace: opc  
Search-Keys : proxy, firewall, IP address, hostname, URI

#### **OPC\_CONFIG\_CHANGE\_SYNC**

Description : Enables online config change sync between MoM servers.

So far for the object types node, node group, and service,  
plus assignments like node -> node group.

Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : 09.10.200  
Used In : namespace: opc  
Search-Keys : opcforwm, opcsvcdisc, DMoM, online config change sync,

### **OPC\_COUNT\_FORW\_MSGS**

Description : Perform count and suppress duplicate task, also for messages that were forwarded from another server. This variable should only be set to TRUE, if messages are acknowledged on the source manager and therefore have to be counted/suppressed on the target manager.  
If set to TRUE, although messages are not acknowledged on the source server, you might get wrong message counts.  
If some (but not all) of the servers have the "count/suppress duplicates" setting enabled, count will be either too high or too low, depending on the setup.  
This will not happen if all the servers have "count/suppress duplicates" enabled. In this case, servers won't forward the duplicate messages, just the change event for updating the duplicate message count. So, the message gets marked as duplicate regardless of which server it was sent to, and the count stays correct.

This setting is also prone to cause an increase in CPU usage, as more message comparisons need to be done. Depending on the server layout and the nature of the messages this may bring little benefit (few additional duplicated messages found), which doesn't make up for the performance impact.

Performance of this setting may also be related to the number of agents in a follow-the-sun setup.  
In an environment in which most messages from an agent are always sent to the same server, OPC\_COUNT\_FORW\_MESSAGES will be less efficient finding additional duplicates than in an environment where those messages are equally distributed among several servers.

Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : A.06.12  
Used In : namespace: opc

Search-Keys : opcmsgm, message forwarding, duplicate message suppression

#### **OPC\_CREATE\_AUTO\_KEYS**

Description : When this variable is set to TRUE and if "Suppress and Count Duplicate Messages" server option is enabled, Message Manager will automatically add message key to messages without it. Message key is of the form "AUTOKEY:HASH", where HASH is calculated as SHA-1 hash of the following message attributes: node name, message group, application, object, service name, severity and message text. This improves performance in situations where there are many messages without message keys and duplicate suppression is enabled. Note that this doesn't affect messages where message key is defined but empty.

Type/Unit : bool  
Default : TRUE  
Documented : N/A  
Since Rel. : A.08.31  
Used In : namespace: opc  
Search-Keys : opcmsgm, duplicate message suppression and count, performance,

#### **OPC\_CSA\_ACTION\_TIMEOUT**

Description : Maximum execution time period of a PRE and POST action.

Check related variables for more information:  
OPC\_CSA\_NAT\_RULES,  
OPC\_CSA\_RULES,  
OPC\_CSA\_AUTOMATION

Type/Unit : int  
Default : 60  
Documented : N/A  
Since Rel. : A.08.29  
Used In : namespace: opc.opccsad  
Search-Keys : opccsad, CSA, certificate request, automation, timeout,

#### **OPC\_CSA\_ALLOW\_IP\_MISMATCH**

Description : By default, certificate requests are not automatically mapped, if the IP address in the certificate request does not match the IP address in the node bank.  
If OPC\_CSA\_ALLOW\_IP\_MISMATCH is set to TRUE, a certificate

request will be mapped automatically, even though the IP address in the certificate request is no the same as in the database. This may be needed to automatically map certificate requests from multi homed hosts.

Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : A.08.35.010  
Used In : namespace: opc  
Search-Keys : opccsad, CSA, certificate request, IP address

#### **OPC\_CSA\_AUTOGRANT\_INTERVAL**

Description : Time interval for opccsad to automatically grant certificate request during remote certificate installation. Used only during management server driven agent install.

Type/Unit : int, minute  
Default : 30  
Documented : N/A  
Since Rel. : A.08.00  
Used In : namespace: opc  
Search-Keys : opccsad, CSA, certificate request, auto granting, agent

#### **OPC\_CSA\_AUTOMATION**

Description : Enable/disable automatic processing of certificate requests from HTTPS agents and allow automatic adding of systems to the OMU nodebank before granting a certificate request.

Check related variables for more information:  
OPC\_CSA\_NAT\_RULES,  
OPC\_CSA\_RULES,  
OPC\_CSA\_ACTION\_TIMEOUT.

Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : A.08.29  
Used In : namespace: opc.opccsad  
Search-Keys : opccsad, CSA, certificate request, automation

#### **OPC\_CSA\_LINUX\_X64\_PLATFORM**

Description : By default, certificate requests from Linux x64 nodes can not

be automatically mapped if both MACH\_BBC\_LX26RPM\_X64 and MACH\_BBC\_LX26DEB\_X64 agent platforms are installed on the server.

If OPC\_CSA\_LINUX\_X64\_PLATFORM is set to "RPM" (default), then all such requests are mapped to MACH\_BBC\_LX26RPM\_X64. If the value is set to "DEB", then they are mapped to MACH\_BBC\_LX26DEB\_X64. For unrecognized values the selected platform is MACH\_BBC\_LX26RPM\_X64.

Type/Unit : string  
Default : RPM  
Documented : N/A  
Since Rel. : 09.10.240  
Used In : namespace: opc  
Search-Keys : opccsad, CSA, mapping Linux x86-x64, machine type

### OPC\_CSA\_NAT\_RULES

Description : Specify a list of rules and subnet patterns for automatic certificate processing in NATed environment.  
This setting is applied on the NATed IP-address from the cert.req (which is stored in the "PeerAddress:" line when looking via "ovcm -listpending -1" on the cer.req).

Example:

```
OPC_CSA_NAT_RULES=rNAT+(10.18.1.*,10.19.2-5.*)
```

```
OPC_CSA_RULES=rSTD+(*.mydomain.com);r2DENY+(*)
```

```
rNAT=PRE_ACTION:/tmp/precsadnat.sh,GRANT,ADD_
```

```
NODE,/tmp/postcsadnat.sh
```

```
rSTD=PRE_ACTION:/tmp/precsad.sh,GRANT,ADD_NODE,POST_
```

```
ACTION:/tmp/postcsad.sh
```

```
rDENY=PRE_ACTION:/tmp/precsaddeney.sh,DENY
```

This example grants for NAT subnets 10.18.1 and 10.19.2-5, as well as for \*.mydomain.com. All the rest is denied.

OPC\_CSA\_NAT\_RULES is applied first. Different actions are executed in the NAT- and non-NAT case here.

Typically both rules will not overlap from their match-range, because different subnets are concerned.

OPC\_CSA\_NAT\_RULES has higher priority in case they overlap.

Check related variables for more information:

```
OPC_CSA_RULES,
```

```
OPC_CSA_AUTOMATION,
```

```
OPC_CSA_ACTION_TIMEOUT
```

Type/Unit : string  
Default : (not set)  
Documented : N/A

Since Rel. : A.08.29  
Used In : namespace: opc.opccsad  
Search-Keys : opccsad, CSA, certificate request, automation, NAT

#### **OPC\_CSA\_RULES**

Description : Specify a list of rules and subnet patterns for automatic certificate processing.

Example:

```
OPC_CSA_RULES=rule1+(*.mydomain.com);rule2+(*)  
rule1=PRE_ACTION:/tmp/precsad.sh,GRANT,ADD_NODE, \  
POST_ACTION:/tmp/postcsad.sh  
rule2=DENY,POST_ACTION:/tmp/csadddeny.sh
```

rule1 is applied on all accepted certificates matching \*.mydomain.com. rule2 is used to deny undesired certificate requests.

Check related variables for more information:

```
OPC_CSA_NAT_RULES,  
OPC_CSA_AUTOMATION,  
OPC_CSA_ACTION_TIMEOUT
```

Type/Unit : string  
Default : (not set)  
Documented : N/A  
Since Rel. : A.08.29  
Used In : namespace: opc.opccsad  
Search-Keys : opccsad, CSA, certificate request, automation

#### **OPC\_CSA\_USE\_AUTOGRANT**

Description : Enable/disable the autogrant certificate request feature for opccsad. Used only during management server driven agent install.

Type/Unit : bool  
Default : TRUE  
Documented : N/A  
Since Rel. : A.08.00  
Used In : namespace: opc  
Search-Keys : opccsad, CSA, certificate request, auto granting, agent

#### **OPC\_CSA\_USE\_HOSTNAME\_IN\_REQUESTS**



Description : Normally opccsad sends the IP address of the node taken from the database when granting/denying certificate requests. This is not always the best option, especially in environments where NAT or proxies are used, because in those cases the hostname is often used to route requests. When this option is set to TRUE, opccsad uses the nodename from the database when sending requests to ovcs. Set it to TRUE in NAT/proxy environments, and set it to FALSE in cases where IP routing is preferred, but note that reverse name resolution must work properly in this case.

Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : A.08.22  
Used In : namespace: opc  
Search-Keys : opccsad, CSA, certificate request, hostname, URI

#### **OPC\_CSA\_USE\_OS\_BITS**

Description : Use additional information from a certificate request to unambiguously determine the correct machine type to use. This feature requires newer version of the agent installed on the management server. Note that the process will abort if this setting is set to TRUE and the version of the agent installed on the management server is too old.

Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : 09.10.230  
Used In : namespace: opc  
Search-Keys : opccsad, CSA, certificate request, machine type

#### **OPC\_CUSTPROC1\_LOG**

Description : logging for opccustproc1 process

Type/Unit : boolean  
Default : FALSE  
Documented : N/A  
Since Rel. : A.07.12  
Used In : namespace: opc  
Search-Keys : opccustproc1, logging, service attribute

#### **OPC\_CUSTPROC1\_MOM\_FORWARD**

Description : flexible management for opccustproc1 process  
Type/Unit : boolean  
Default : FALSE  
Documented : N/A  
Since Rel. : A.07.12  
Used In : namespace: opc  
Search-Keys : opccustproc1, MoM, forwarding, CMA

#### **OPC\_CUSTPROC1\_REMOTE\_HOSTS**

Description : comma separated list of remote hosts for opccustproc1 process  
Type/Unit : string  
Default : ""  
Documented : N/A  
Since Rel. : A.07.12  
Used In : namespace: opc  
Search-Keys : opccustproc1, remote host, service, attribute

#### **OPC\_DBG\_AREA**

Description : Specify agent or server trace areas for special debug-output (separated by comma - no whitespace); if OPC\_TRACE\_AREA DEBUG is set and OPC\_DBG\_AREA is not, area ALL is used.

Values:

ACTM,APPLMGR,ATTR,BLKTRF,BUFFILE,BUFMGR,CFGP,CMA,  
CMDSEQ,CMM,CMR,COMM,COMMLK,CONF,CTLA,CTLA-API,CTLAMGR,  
CTLM,DA,DCESEC,DFILE,DIR,DISPM,DLIST,DM,DM/DA,FILE,FMTEVT,  
FORWM,GUISTART,INIT,INSTRMGR,LE,M2M,MAC,MEMQ,MONA,MSGA,  
MSGM,MSGR,MUX,MUX/CV,NAMESRV,NCS,NLS,NODEMGR,NTLA,NTPRF,  
OPCPWD,PCTL,PERF,PIDF,PING,PROC,PROXY,QCHK,QM,RAGT,REPLY,  
RQS,RRPC,SA,SEC,SER,SIG,SM,SNMP,SOCK,SRVC,SUBPROD,SUBSRV,  
SW,THRD,TI,TMPL,TMPLMGR,UIOBJ,UISRV,UUID,VB

Example:

```
OPC_TRACE TRUE
OPC_TRACE_AREA DEBUG
OPC_DBG_AREA RQS,NAMESRV
```

Type/Unit : string  
Default : (not set)  
Documented : N/A  
Since Rel. : A.04.00  
Used In : namespace: eaagt, opc  
Search-Keys : logging, trace, audit, area, debug

### **OPC\_DBG\_EXCLUDE\_AREA**

Description : Comma-separated list of debug-areas which are ignored.

Example:

```
OPC_TRACE_AREA DEBUG
OPC_DBG_EXCLUDE_AREA MUX,CONF,NLS
```

Prints all debug data except MUX, CONF, and NLS.  
See OPC\_DBG\_AREA for possible areas.

Type/Unit : string  
Default :  
Documented : N/A  
Since Rel. : A.05.30  
Used In : namespace: eaagt, opc  
Search-Keys : logging, trace, audit, area, exclude, debug

### **OPC\_DBG\_PROCS**

Description : List processes that you want to debug trace. All others are ignored. Comma-separated list, no white-spaces.

Example: OPC\_DBG\_PROCS ovoareqsdr,opcmsgd

Type/Unit : string  
Default : All processes are traced if trace-area DEBUG is set.  
Documented : N/A  
Since Rel. : A.04.00  
Used In : namespace: eaagt, opc  
Search-Keys : logging, trace, audit, processes, debug

### **OPC\_DB\_IGNORE\_NODE\_CASE**

Description : If set to TRUE, opccfgupld will ignore upper/lower case when looking for existing nodes in the database. This is only used for searching the node. The node will be added with the case from the data files, unless you use the OPC\_USE\_LOWERCASE config variable.

Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : A.06.00  
Used In : namespace: opc

Search-Keys : opccfgupld, case sensitive, node name, configuration upload

#### **OPC\_DEFAULT\_HOLDING\_AREA\_NAME**

Description : The name of the holding area of a new created node hierarchy.  
The holding area of a node hierarchy is a node layout group, where newly added nodes are put.

Type/Unit : string

Default : HoldingArea

Documented : N/A

Since Rel. : A.05.00

Used In : namespace: opc

Search-Keys : configuration, holding area, node hierarchy, API

#### **OPC\_DEPLOY\_IF\_CALLBACK\_FAILS**

Description : By default, if the deploy callback fails, policy will be deployed anyway, but a message will be logged into the System.txt. One message notifying the user that at least one of callbacks has failed will be sent to the message browser.

If the value of config. setting OPC\_DEPLOY\_IF\_CALLBACK\_FAILS is set to FALSE, policy will not be deployed to the managed node if deploy callback fails. In that case, error will be logged into System.txt and one message will be sent to the Msg. browser at the end of policy deployment regardless of how many policies were not deployed.

Type/Unit : boolean

Default : TRUE

Documented : N/A

Since Rel. : A.09.10

Used In : namespace: opc

Search-Keys : opcbcdist, policy, deployment, callback

#### **OPC\_DIRECT\_ACKN\_LIMIT**

Description : If more messages must be acknowledged than allowed by this configured limit, they are only marked as acknowledged and later on moved to the history tables by the opcdbmsgmv process. Otherwise they are immediately moved.

To always mark messages, set OPC\_DIRECT\_ACKN\_LIMIT to 1.

Note: the Java GUI processes handles each acknowledge

as a separate request and therefore this parameter only shows an effect if set to 1.  
See also the parameters OPC\_ACK\_MOVE\_INTERVAL and OPC\_ACK\_COMMIT\_COUNT.

Type/Unit : int  
Default : 50  
Documented : N/A  
Since Rel. : A.05.00  
Used In : namespace: opc  
Search-Keys : opcmsgm, opcack, opcuwww, opcackmsg, opcackmsgs, opactm,

#### **OPC\_DISABLE\_AUTOEXTEND**

Description : If TRUE, opcadddbf creates non-autoextend database files.  
Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : A.04.00  
Used In : namespace: opc  
Search-Keys : opcadddbf, oracle only, tablespace, autoextend

#### **OPC\_DISABLE\_IP\_MAPPING\_TABLE**

Description : If TRUE, opcmsgm will not build an IP address mapping table at startup. That avoids doing name resolution for all the nodes in the node bank. But it may lead to additional name resolution if a message for a node is received that was not found in the node list.  
Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : A.08.27  
Used In : namespace: opc  
Search-Keys :

#### **OPC\_DIST\_OMIT\_ERROR\_AGT\_NOT\_INST**

Description : If OPC\_DIST\_OMIT\_ERROR\_AGT\_NOT\_INST is set to FALSE, an error message is logged to System.txt and sent to message browser if configuration is distributed to a node where agent software is not marked as installed.  
Type/Unit : boolean  
Default : FALSE

Documented : N/A  
Since Rel. : A.09.10  
Used In : namespace: opc  
Search-Keys : opcbbcdist, distribution, error, logging

#### **OPC\_DM\_CONNECT\_TIMEOUT**

Description : During server startup, processes try to connect to display manager (opcdispm). If they cannot connect within the specified timeout, the server processes will be shutdown again.  
Typical timeout is 5 minutes.  
Note: for large setups with many nodes, this should be set to at least 900.

Type/Unit : int , second  
Default : Not set. Most programs try with 300 seconds, if this variable  
Documented : N/A  
Since Rel. : A.05.00  
Used In : namespace: opc  
Search-Keys : opcdispm, API, server, process, startup, timeout

#### **OPC\_DONT\_EMPTY\_NS\_CACHE**

Description : Do not empty the name service cache in opcmsgm when adding or modifying a node if OPC\_DONT\_EMPTY\_NS\_CACHE is set to TRUE.  
Clearing the name service cache may cause delays in the message processing if a lot of messages for nodes that are unresolvable are matched by external nodes, or if nodes in the node bank are modified that are unresolvable.  
Even if the name service cache is not cleared, OMU will handle the primary IP address and node name correctly. But if all the IP addresses of a node with multiple IP addresses were changed, messages with one of those IP addresses that should match an external node may be accidentally discarded.

Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : A.08.35.010; A.09.10  
Used In : namespace: opc  
Search-Keys : opcmsgm, name service, name resolution, cache

#### **OPC\_DONT\_FORW\_MSGKEY\_ACK**

Description : Do not forward the acknowledge and annotation add change events

caused by message key relations. If the target server has the same messages, it already handles the same message key relation. If this flag is not set, the correlation is performed twice, which may lead to lock timeouts and duplicate annotations.

NOTE: This config setting works well in a pure OMU to OMU message forwarding environment. But it should not be used if you're also forwarding messages to OMi. Depending on the OMi version, the OMi message key correlation does not handle all pattern the same and thus messages may be acknowledged in OMU but not in OMi.

Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : A.07.21  
Used In : namespace: opc  
Search-Keys : opcmsgm, MoM, forwarding, message key, acknowledge, annotation,

#### **OPC\_DONT\_LOG\_REUSED\_COREIDS**

Description : Switch off the detection of duplicate used core IDs. By default the system info data (sent once per day per agent) is compared against some data in the DB for that node (FQDN, IP addr, MAC addr). If all that data is different it's assumed that a core ID was accidentally reused, e.g. when cloning a system with an OM agent installed. Warning OpC40-665 doesn't come if this setting is TRUE.

Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : A.09.10  
Used In : namespace: opc  
Search-Keys : opcmsgm, CoreID, node, agent, logging

#### **OPC\_DONT\_REPLACE\_MGMTSV\_VARIABLE**

Description : When this variable is set to TRUE, Message Manager does not replace OPC\_MGMTSV variable with management server's hostname in operator action's nodename field when a message is received. This can be useful when messages are forwarded to another server and operators want to execute the action on their local server.

Type/Unit : bool  
Default : FALSE  
Documented : N/A

Since Rel. : A.08.31  
Used In : namespace: opc  
Search-Keys : opcmsgm, \$OPC\_MGMTSV, forwarding, action

#### **OPC\_DO\_ACTION\_SIGNATURE\_CHECK\_FOR\_ALL\_NODES**

Description : If this variable is set to FALSE, opcmsgm checks the node communication type and action signature verification is only provided for HTTPS nodes.  
If this variable is set to TRUE, action signature check is provided for all nodes. If there are only HTTPS nodes, opcmsgm omits the check for node communication type and goes directly to the next step.

Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : A.08.00  
Used In : namespace: opc  
Search-Keys : opcmsgm, action, signature

#### **OPC\_DO\_ACTION\_SIGNATURE\_CHECK\_FOR\_LOCAL\_ACTIONS**

Description : If this variable is set to FALSE, only actions which meet the requirement of "message generation node != action target node" are checked.  
If this variable is set to TRUE, the action signature check is also done for local actions.

Note: Actions of MSI generated messages do not work if this flag is on.

Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : A.08.00  
Used In : namespace: opc  
Search-Keys : opcmsgm, action, signature

#### **OPC\_DO\_ACTION\_SIGNATURE\_CHECK\_ON\_FORWARDED\_MSG**

Description : If this variable is set to FALSE, and if the message is a forwarded message, there is no action signature check.  
If this variable is set to TRUE, action signature in



forwarded messages is checked.  
Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : A.08.00  
Used In : namespace: opc  
Search-Keys : opcmsgm, action, signature, forward message

#### **OPC\_DUMMY\_IP\_RANGE**

Description : If the HPOM for UNIX management server detects an IP address conflict while processing an IP change request, the next free IP address from the OPC\_IP\_DUMMY\_IP\_RANGE is used (for DHCP). The format of this string is [1-9\*].[1-9\*].[1-9\*].[1-9\*]. At least one number must be specified.  
Type/Unit : string  
Default : 1.1.1.\*  
Documented : N/A  
Since Rel. : A.08.00  
Used In : namespace: opc  
Search-Keys : ovoareqsd, DHCP, IPCE, IP range, resolve IP, IP address

#### **OPC\_DUPL\_ANNO\_ONLY\_IF\_CHANGED**

Description : If OPC\_UPDATE\_DUPLICATED\_MSGTEXT and/or OPC\_UPDATE\_DUPLICATED\_SEVERITY is set to LAST\_MESSAGE (which is the default with HPOM 9.x), every duplicate will also create modify change events, even though neither severity nor text changed. If OPC\_DUPL\_ANNO\_ONLY\_IF\_CHANGED is set to TRUE, a duplicate annotation is only added if either text or severity was changed.  
Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : 09.10.210  
Used In : namespace: opc  
Search-Keys : opcmsgm, duplicate message suppression, annotation,

#### **OPC\_EC\_STREAM\_POLICY**

Description : ECS event handling policy. ECS engine creates output if ALL or if ANY circuits create output for an event.

Values: OUTPUT,UNSPECIFIED,DISCARD  
Type/Unit : string  
Default : OUTPUT  
Documented : N/A  
Since Rel. : A.05.00  
Used In : namespace: eaagt, opc  
Search-Keys : opcecm, ECS

#### **OPC\_EMPTY\_NS\_CACHE**

Description : When set to TRUE, the name service cache will be cleared every time a trace reconfiguration occurs. This is performed automatically after a configuration variable change or can be forced with "opcsv -trace" command.  
It is recommended that after a short time the variable is set back to FALSE in order to prevent possibly unwanted name service cache clearing.

Type/Unit : boolean  
Default : FALSE  
Documented : N/A  
Since Rel. : A.09.00  
Used In : namespace: opc  
Search-Keys : name resolution, cache

#### **OPC\_ENABLE\_FWDCHAIN\_FWDSENDER\_CMA**

Description : Enables automatic adding of FwdSender and FwdChain CMAs to forwarding messages. It must be set to TRUE on all management servers that are included in the forwarding mgmt server chain. All forwarded messages will automatically get additional two Custom Message Attributes when they reach the target server:  
- FwdSender stands for management server that forwarded/sent this message. The value is the hostname of this management server.  
- FwdChain stands for forwarding management servers chain. The value is in the following format:  
Srv1->Srv2->...->SrvN

These CMAs can be visible in customized Java GUI Msg. browser. Note that these CMAs can be modified by opccmachg utility or in Java GUI, so operator should be careful when performing changes to such messages. If such forwarded message is changed, CMAs may not have the correct values any more on

other servers. Note that such change on forwarded message is propagated on all mgmt servers in the chain.

Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : A.09.00  
Used In : namespace: opc  
Search-Keys : opcmsgm, MOM, forwarding, CMA

### **OPC\_EXEC**

Description : Enable execution of special tracing commands. Whenever tracing parameters are evaluated (startup | opcagt -trace | opcsv -trace) the tasks listed at OPC\_EXEC\_AREA-entry are performed for processes OPC\_EXEC\_PROCS.

Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : A.06.00  
Used In : namespace: eaagt, opc  
Search-Keys : logging, trace, audit

### **OPC\_EXEC\_AA\_WITH\_DUPL\_SUPPR**

Description : Allows the server to execute a remote automatic action for each duplicate message when count and suppress duplicates is enabled.

Type/Unit : boolean  
Default : FALSE  
Documented : N/A  
Since Rel. : A.06.16  
Used In : namespace: opc  
Search-Keys : opcmsgm, duplicate message suppression, automatic action

### **OPC\_EXEC\_ACTIONS\_AT\_STARTUP**

Description : By default the HPOM server does not execute any action request which it finds in queue-files when it starts up. Instead it creates a response that the action-request is 'old' (from previous HPOM server session). This can be

changed with OPC\_EXEC\_ACTIONS\_AT\_STARTUP. See also  
OPC\_MAX\_AGE\_OF\_ACTIONS\_AT\_STARTUP.

Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : A.04.00  
Used In : namespace: opc  
Search-Keys : opcactm, actions, startup

### OPC\_EXEC\_AREA

Description : List of tracing-related tasks to be executed when tracing parameters are evaluated (see OPC\_EXEC). Argument is a comma-separated list of tasks. Output is written to trace files.

Currently supported tasks:

PRINT\_NAMESRV\_CACHE : print HPOM name-resolution cache.

Note: debug-trace-area NAMESRV must be set.

Type/Unit : string  
Default :  
Documented : N/A  
Since Rel. : A.06.00  
Used In : namespace: eaagt, opc  
Search-Keys : logging, trace, audit

### OPC\_EXEC\_MSI\_FORW\_AA

Description : If OPC\_MSI\_CREATE\_NEW\_MSGID setting is set to 4 (message-ids are not modified by MSI applications) then automatic actions, created or changed by MSI applications, belonging to forwarded messages are not automatically executed by default. When OPC\_EXEC\_MSI\_FORW\_AA is set to TRUE, such actions are allowed.

Type/Unit : boolean  
Default : FALSE  
Documented : N/A  
Since Rel. : A.08.34  
Used In : namespace: opc  
Search-Keys : opcmsgm, MoM, forwarding, MSI, auto action

### OPC\_EXEC\_PROCS

Description : Comma-separated list of programs to be considered when special tracing tasks are to execute. See OPC\_EXEC and OPC\_EXEC\_AREA. If not set, all procedures are considered. Example to print name-resolution cache data of processes ovoareqsdr and opcmsgm to trace file when executing the opcsv -trace command:

```
OPC_TRACE TRUE
OPC_TRACE_AREA DEBUG
OPC_DBG_AREA NAMESRV
OPC_DBG_PROCS ovoareqsdr,opcmsgm
OPC_EXEC TRUE
OPC_EXEC_AREA PRINT_NAMESRV_CACHE
OPC_EXEC_PROCS ovoareqsdr,opcmsgm
```

Type/Unit : string  
Default :  
Documented : N/A  
Since Rel. : A.06.00  
Used In : namespace: eaagt, opc  
Search-Keys : logging, trace, audit

### OPC\_FILTERS\_BY\_LAYOUT\_GRP\_LABEL

Description : By default, node filters will filter messages by layout group name only.  
If the value of OPC\_FILTERS\_BY\_LAYOUT\_GRP\_LABEL is set to TRUE, node filters will filter messages by layout group label also.

Type/Unit : boolean  
Default : FALSE  
Documented : N/A  
Since Rel. : 09.10.240  
Used In : namespace: opc  
Search-Keys : layout group filter, filter, label filter

### OPC\_FORWARD\_READONLY\_MSGS

Description : If the value of OPC\_FORWARD\_READONLY\_MSGS is set to TRUE, read-only messages can be forwarded.

Type/Unit : boolean  
Default : FALSE

Documented : N/A  
Since Rel. : 09.10.210  
Used In : namespace: opc  
Search-Keys : opcuwww, MoM, read-only, forwarding

#### OPC\_FORWM\_MAX\_BULK\_SIZE

Description : Controls the size of the event bulk. If the variable is set to 0, Forward Manager will not do any bulking and will send a single event at a time, as soon as it has been read from the queue. If the value of the variable is greater than zero (default = 100), Forward Manager will collect events from the queue until one of the following conditions is met:

- the event read from the queue is of a different type than the previous one (type = message/operation/actresponse)
- the number of events read from the queue is equal (or greater) of the value of the OPC\_FORWM\_MAX\_BULK\_SIZE variable
- the queue is empty

At that point in time, Forward Manager will assemble all requests into as few bulks as possible, bulking only same types of events (e.g. ACK operations) in a single bulk, before sending them. Once all events have been processed, the bulk counter is reset and queue is processed again.

Type/Unit : integer, values: >= 0  
Default : 100  
Documented : N/A  
Since Rel. : A.08.23  
Used In : namespace: opc  
Search-Keys : opcforwm, MoM, forwardingh, bulk, performance

#### OPC\_FORW\_CTRL\_SWTCH\_TO\_TT

Description : M2M message forwarding:  
Control whether forwarded 'normal' (controlled) messages should be sent to trouble-ticket service.

Background:

You may have only one trouble-ticket system but several OMU servers and do not want duplicated messages in the trouble-ticket service (see also OPC\_FORW\_NOTIF\_TO\_TT).

Type/Unit : bool

Default : TRUE  
Documented : N/A  
Since Rel. : A.04.00  
Used In : namespace: opc  
Search-Keys : opcmsgm, MoM, forwarding, trouble ticket

#### **OPC\_FORW\_NOTIF\_TO\_TT**

Description : M2M message forwarding:  
Pass forwarded 'read only'-messages (notification messages) to trouble-ticket system. (See also OPC\_FORW\_CTRL\_SWITCH\_TO\_TT and note the different default value for both settings).

Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : A.04.00  
Used In : namespace: opc  
Search-Keys : opcmsgm, MoM, forwarding, read-only, notification, trouble ticket

#### **OPC\_HBP\_CONTINUOUS\_ERRORS**

Description : If set to TRUE, heartbeat polling errors and buffering messages will be sent each polling interval and not only once.  
- Added the buffering messages OpC40-1410 and OpC40-1411 to the heartbeat msgkey correlation list.

Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : A.07.25; A.08.14  
Used In : namespace: opc  
Search-Keys : ovoareqsdr, HBP, continous, error, polling, logging

#### **OPC\_HBP\_DOUBLE\_CHECK**

Description : For server initiated heartbeat polling to HTTPS agents:  
If the OPC\_HBP\_DOUBLE\_CHECK config setting is set to TRUE, the current ovoareqsdr worker thread will immediately re-check the agent (contact agent again), if the error was not a node down or network down error.

Type/Unit : bool  
Default : FALSE  
Documented : N/A

Since Rel. : A.08.31  
Used In : namespace: opc  
Search-Keys : ovoareqsdr, HBP, double check

#### **OPC\_HBP\_DOUBLE\_CHECK\_DELAY**

Description : This allows to specify a delay between retries for the HBP double check for errors other than agent buffering and agent unreachable (e.g. opcmsga not running).  
Type/Unit : int (seconds)  
Default : 0 (no delay before double check)  
Documented : N/A  
Since Rel. : 09.10.220  
Used In : namespace: opc  
Search-Keys : ovoareqsdr, HBP, double check, delay

#### **OPC\_HBP\_DOUBLE\_CHECK\_DELAY\_BUFFER**

Description : By default the HBP double check will not re-check for agent buffering errors. But if this config setting is set to a value greater 0, a re-check is done for agent buffering errors. Since the agent tries to send every 60 seconds, the delay for buffering should be at least 60, for example 90 seconds.  
Type/Unit : int (seconds)  
Default : 0 (no double check if agent is buffering)  
Documented : N/A  
Since Rel. : 09.10.220  
Used In : namespace: opc  
Search-Keys : ovoareqsdr, HBP, double check, delay, buffering

#### **OPC\_HBP\_DOUBLE\_CHECK\_DELAY\_UNREACHABLE**

Description : By default the HBP double check will not re-check if the agent is completely unreachable (because of networking timeouts it may take up to 5 Minutes for this check and with a retry that will be doubled to 10 Minutes). But by setting this config setting to a value greater than 0, it is possible to also re-check for this kind of heartbeat error.  
Type/Unit : int (seconds)  
Default : 0 (no double check if agent unreachable)  
Documented : N/A  
Since Rel. : 09.10.220  
Used In : namespace: opc



Search-Keys : ovoareqsdr, HBP, double check,delay, unreachable

#### **OPC\_HBP\_DOUBLE\_CHECK\_RETRIES**

Description : Allow to configure the number of retries if  
OPC\_HBP\_DOUBLE\_CHECK is set to TRUE.  
Type/Unit : int  
Default : 1  
Documented : N/A  
Since Rel. : 09.10.220  
Used In : namespace: opc  
Search-Keys : ovoareqsdr, HBP, double check, retries

#### **OPC\_HBP\_NORMAL\_START\_MSG**

Description : If set to TRUE, ovoareqsdr sends an "agent is now running"  
for each agent that is accessible when the server processes  
are started.  
Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : A.07.25; A.08.14  
Used In : namespace: opc  
Search-Keys : ovoareqsdr, HBP, agent

#### **OPC\_HBP\_USE\_UDP\_FIRST**

Description : To avoid problems with open file limitations for polling  
Windows nodes, use this switch to try UDP first.  
TCP is used if UDP fails.  
Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : A.04.11  
Used In : namespace: opc  
Search-Keys : ovoareqsdr, HBP, UDP, TCP

#### **OPC\_IGNORE\_ERROR\_UNMONITORED\_NODES**

Description : By default "opcs -installed -all" and "opcragt -status -all"  
give an error/warning for each node that is not "Controlled"

or "Monitored". If OPC\_IGNORE\_ERROR\_UNMONITORED\_NODES is set to TRUE, no warning message is written. The node is simply ignored (just like an external node is silently ignored). If only one node was specified, opcsw and opcragt will still write an error.

Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : 09.10.220  
Used In : namespace: opc  
Search-Keys : opcragt, opcsw, message suppression, ignore unmonitored

### **OPC\_INSTALLATION\_TIME**

Description : Install time of agent or server.  
Type/Unit : string  
Default : Not set  
Documented : N/A  
Since Rel. : A.01.00  
Used In : namespace: eaagt, opc  
Search-Keys : installation

### **OPC\_INSTALLED\_VERSION**

Description : Version string of agent or server.  
Type/Unit : string , values: A.VV.FF  
Default : Not set  
Documented : N/A  
Since Rel. : A.01.00  
Used In : namespace: eaagt, opc  
Search-Keys : installation, version, server, agent

### **OPC\_INT\_MSG\_FLT**

Description : If TRUE, HPOM-internal messages (message-group OpC or OpenView; mainly HPOM-internal status- and error-messages) are passed to the HP Operations agent and can be filtered through message interceptor templates.  
Note: This is also possible on the HPOM management server. However, the local HPOM management server's agent must run and it must use the same character set as the server.

Type/Unit : bool  
Default : FALSE

Documented : N/A  
Since Rel. : A.05.00  
Used In : namespace: eaagt, opc  
Search-Keys : opcmsgm, filtering, message interceptor, internal messages

#### **OPC\_INT\_MSG\_FLT\_AWS**

Description : With this variable set to TRUE, HPOM internal messages are always filtered by the Message Interceptor, even if the process itself is not running. In this case, internal messages arrive at the next startup of the Message Interceptor. Setting this variable to TRUE, no internal messages are sent unfiltered to the Management Server. Be careful when using this setting, as HPOM internal messages sent to the management server may arrive delayed.  
Important Note:  
OPC\_INT\_MSG\_FLT must be set to TRUE in order to use OPC\_INT\_MSG\_FLT\_AWS!

Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : A.07.26  
Used In : namespace: eaagt, opc  
Search-Keys : opcmsgm, filtering, message interceptor, internal messages

#### **OPC\_IPCE\_RETRY\_INTERVAL**

Description : Configure IP change event handling for DHCP nodes. After the configured time period (in seconds) has elapsed, all buffered IP change events are processed again.

Type/Unit : int  
Default : 180 (3 minutes)  
Documented : N/A  
Since Rel. : A.08.00  
Used In : namespace: opc  
Search-Keys : ovoareqsd, DHCP, IPCE, IP configuration, change event, interval

#### **OPC\_IPCE\_RETRY\_NUM**

Description : Configure IP change event handling for DHCP nodes. If none of the IP addresses reported by the system matches those of DNS, the IP address change event is buffered. Each event is processed with a maximum number of retries as specified by the

OPC\_IPCE\_RETRY\_NUM variable.

Type/Unit : int  
Default : 10  
Documented : N/A  
Since Rel. : A.08.00  
Used In : namespace: opc  
Search-Keys : ovoareqsdr, DHCP, IPCE, IP configuration, change event, interval,

#### **OPC\_IPV6\_ACTIVE**

Description : Enable IPv6 support.

Type/Unit : boolean  
Default : FALSE  
Documented : IPv6 Support White Paper  
Since Rel. : 09.10.200  
Used In : namespace: opc  
Search-Keys : IPv6

#### **OPC\_IP\_ADDRESS**

Description : IP addresses of managed nodes are maintained as identifiers on the HPOM management server. The address is passed to the managed node and used in messages coming from that node. IP addresses can be modified in the HPOM Administration UI which populate the eaagt namespace. Should NOT change this setting on the node itself using `ovconfchg -ns eaagt -set <variable name> <value>`

Type/Unit : string , a.b.c.d (e.g. 15.136.120.1)  
Default : (not set; first found IP address is used in messages then)  
Documented : N/A  
Since Rel. : A.03.00  
Used In : namespace: eaagt, opc  
Search-Keys : IP, IP configuration

#### **OPC\_JGUI\_ALLOW\_ORIG\_SRV**

Description : Controls if the original management server is allowed in the list of backup management servers. By default, it is not allowed and is ignored by the Java GUI. See also OPC\_JGUI\_BACKUP\_SRV variable.

Type/Unit : bool  
Default : FALSE

Documented : N/A  
Since Rel. : A.08.22  
Used In : namespace: opc  
Search-Keys : Java GUI, backup management server

#### **OPC\_JGUI\_BACKUP\_SRV**

Description : Comma-separated list of two or more backup HPOM management servers. In case of lost connection to management server, the Java GUI automatically re-connect to a specified backup server. If the variable is undefined or no value is specified, the auto-reconnect functionality is disabled.

Type/Unit : string  
Default : none  
Documented : N/A  
Since Rel. : A.08.21  
Used In : namespace: opc  
Search-Keys : Java GUI, backup management server, reconnect

#### **OPC\_JGUI\_CONF\_ALLOWED\_USERS**

Description : Comma-separated list of users that are able to save their Java GUI configuration files when loaded from global settings location. For listed users, local configuration files have precedence over shared ones if present in \$USER\_HOME.

Type/Unit : string  
Default : none  
Documented : N/A  
Since Rel. : A.08.14  
Used In : namespace: opc  
Search-Keys : Java GUI, operator, security, global configuration

#### **OPC\_JGUI\_CUSTOM\_LINK\_PROTOCOLS**

Description : Defines custom URL protocols in messages that are opened with internal or external web browser in Java GUI. Multiple protocols should be separated with ',' or ':':

Typical values:  
prot,file:exp2 (three new protocols: prot, file and exp2)

Type/Unit : string  
Default : none  
Documented : Release Notes

Since Rel. : 09.10.220  
Used In : namespace: opc  
Search-Keys : Java GUI, hyperlink, message, URI

#### **OPC\_JGUI\_GLOBAL\_SETTINGS\_UNIX**

Description : Specifies shared folder location for Java GUI configuration files. It affects only Java GUI clients started on systems other than Windows. For Windows platform use OPC\_JGUI\_GLOBAL\_SETTINGS\_WIN. The value can be any valid path identifier and URL location (must start with 'http').

Typical values:  
/net/barney/tmp (NFS share)  
http://barney:3443/ITO\_OP/ (URL on HPOM server)

Type/Unit : string  
Default : none  
Documented : N/A  
Since Rel. : A.08.12 (server); A.08.13 (JGUI)  
Used In : namespace: opc  
Search-Keys : Java GUI, global configuration, Unix, non-Windows

#### **OPC\_JGUI\_GLOBAL\_SETTINGS\_WIN**

Description : Specifies shared folder location for Java GUI configuration files. It affects only JGUI clients started on Windows. For all other platforms use OPC\_JGUI\_GLOBAL\_SETTINGS\_UNIX. The value can be any valid path identifier and URL location (must start with 'http').

Typical values:  
X:\Shared\JavaUI (mounted windows location)  
\\wilma.hp.com\Shared\JavaUI (MS Win network location)  
http://barney:3443/ITO\_OP/ (URL on HPOM server)

Type/Unit : string  
Default : none  
Documented : N/A  
Since Rel. : A.08.12 (server); A.08.13 (JGUI)  
Used In : namespace: opc  
Search-Keys : Java GUI, global configuration, Windows

#### **OPC\_JGUI\_HINTING**

Description : Configures the used Oracle optimizer by inserting a hint into the SQL query when loading messages using the Java GUI. Only used if OPC\_USE\_JB\_MSGS\_GET is TRUE.  
Values:  
RULE - rule based optimizer.  
CHOOSE - Oracle decides whether to use rule or cost based opt.  
RULE ORDERED - rule based opt., ordered.  
ALL\_ROWS - cost based opt., all rows strategy.  
FIRST\_ROWS - cost based opt., first rows strategy.

Type/Unit : string  
Default : FIRST\_ROWS  
Documented : N/A  
Since Rel. : A.07.16  
Used In : namespace: opc  
Search-Keys : opcuwww, opcack, opcunack, API, Java GUI, performance, messages

#### **OPC\_JGUI\_HISTBRW\_DISABLED**

Description : Comma-separated list of users, that are not allowed to use History Message Browser.

Type/Unit : string  
Default : none  
Documented : N/A  
Since Rel. : A.08.27  
Used In : namespace: opc  
Search-Keys : Java GUI, operator, history browser, security

#### **OPC\_JGUI\_HTTPS\_KEEPALIVE**

Description : Defines if "keepalive" mechanism is enabled. If set to TRUE keepalive will be enabled so it should prevent closing connection while server is processing messages and filters.

Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : 09.10.240  
Used In : namespace: opc  
Search-Keys : Java GUI, keep alive

#### **OPC\_JGUI\_HTTPS\_KEEPALIVE\_INTERVAL**

Description : Defines interval of "keepalive" timer in seconds.  
Type/Unit : integer

Default : 30  
Documented : N/A  
Since Rel. : 09.10.240  
Used In : namespace: opc  
Search-Keys : Java GUI, keep alive, interval

#### **OPC\_JGUI\_INTERNBW\_DISABLED**

Description : Type of internal web browser, which is disabled.

Values:

ACTIVEX - ActiveX web browser is disabled  
NONE - Internal web browsers are allowed

Type/Unit : string  
Default : none  
Documented : N/A  
Since Rel. : A.08.30  
Used In : namespace: opc  
Search-Keys : Java GUI, internal browser, security

#### **OPC\_JGUI\_MINIMAL\_VER**

Description : Comma-separated list of minimal Java GUI versions, which are allowed to connect to the HPOM management server. First specified version in the list must not contain internal version. See also OPC\_JGUI\_RECOMMENDED\_VER.

Type/Unit : string  
Default : none  
Documented : N/A  
Since Rel. : A.08.27  
Used In : namespace: opc  
Search-Keys : opcuiwww, Java GUI, version

#### **OPC\_JGUI\_MSGGRP\_ICON**

Description : Sets alternative icon representations for the message group in the Java GUI:

"bw" - to use the black/white version of the original message group icon  
"" - to use default colored message group icon  
"path/image" - to use an image file on the server



The following sub variants are possible:

- absolute path loads the specified image
- image name without path loads the image from HPOM's default image path /opt/OV/www/htdocs/ito\_op/images
- http or ftp url can also be used to specify image location
- if the image cannot be loaded a default empty image is used

Type/Unit : string  
Default : ""  
Documented : N/A  
Since Rel. : A.08.24  
Used In : namespace: opc  
Search-Keys : Java GUI, message group icon

#### **OPC\_JGUI\_RECOMMENDED\_VER**

Description : Comma-separated list of recommended Java GUI versions, which are preferred to connect to the HPOM management server. First specified version in the list must not contain internal version.  
See also OPC\_JGUI\_MINIMAL\_VER.

Type/Unit : string  
Default : none  
Documented : N/A  
Since Rel. : A.08.27  
Used In : namespace: opc  
Search-Keys : opcuwww, Java GUI, version

#### **OPC\_JGUI\_RECONNECT\_RETRIES**

Description : Applies to Java GUI client. Number of reconnect retries to current server before auto-reconnect is initiated.  
See also OPC\_JGUI\_BACKUP\_SRV.

Type/Unit : integer  
Default : 3  
Documented : N/A  
Since Rel. : A.08.21  
Used In : namespace: opc  
Search-Keys : Java GUI, reconnect, retries

#### **OPC\_JGUI\_SEV\_CN**

**Description** : Sets custom severities labels for Chinese locale.  
OPC\_JGUI\_SEV\_CN must have value that consists of exactly six desired severity labels separated by comma(",").  
Values of these new labels must be in this specific order: UNKNOWN, NORMAL, WARNING, MINOR, MAJOR, CRITICAL (order by severity importance is mandatory for severity label to have correct meaning ). If user does not want to change one or more severity labels, character "?" can be used insted of custom severity label. To use custom severity label that contains blanks (whitespaces), whole severity XPL variable value must be inside quotes.

**Type/Unit** : string  
**Default** : none  
**Documented** : N/A  
**Since Rel.** : 09.10.220  
**Used In** : namespace: opc  
**Search-Keys** : Java GUI, L10N

#### **OPC\_JGUI\_SEV\_EN**

**Description** : Sets custom severities labels for English locale.  
OPC\_JGUI\_SEV\_EN must have value that consists of exactly six desired severity labels separated by comma(",").  
Values of these new labels must be in this specific order: UNKNOWN, NORMAL, WARNING, MINOR, MAJOR, CRITICAL (order by severity importance is mandatory for severity label to have correct meaning ). If user does not want to change one or more severity labels, character "?" can be used insted of custom severity label. To use custom severity label that contains blanks (whitespaces), whole severity XPL variable value must be inside quotes.

**Type/Unit** : string  
**Default** : none  
**Documented** : Release Notes  
**Since Rel.** : 09.10.220  
**Used In** : namespace: opc  
**Search-Keys** : Java GUI, L10N

#### **OPC\_JGUI\_SEV\_ES**

**Description** : Sets custom severities labels for Spanish locale.  
OPC\_JGUI\_SEV\_ES must have value that consists of exactly six desired severity labels separated by comma(",").  
Values of these new labels must be in this specific

order: UNKNOWN, NORMAL, WARNING, MINOR, MAJOR, CRITICAL (order by severity importance is mandatory for severity label to have correct meaning ). If user does not want to change one or more severity labels, character "?" can be used insted of custom severity label. To use custom severity label that contains blanks (whitespaces), whole severity XPL variable value must be inside quotes.

Type/Unit : string  
Default : none  
Documented : N/A  
Since Rel. : 09.10.220  
Used In : namespace: opc  
Search-Keys : Java GUI, L10N

### **OPC\_JGUI\_SEV\_JA**

Description : Sets custom severities labels for Japanese locale. OPC\_JGUI\_SEV\_JA must have value that consists of exactly six desired severity labels separated by comma(","). Values of these new labels must be in this specific order: UNKNOWN, NORMAL, WARNING, MINOR, MAJOR, CRITICAL (order by severity importance is mandatory for severity label to have correct meaning ). If user does not want to change one or more severity labels, character "?" can be used insted of custom severity label. To use custom severity label that contains blanks (whitespaces), whole severity XPL variable value must be inside quotes.

Type/Unit : string  
Default : none  
Documented : N/A  
Since Rel. : 09.10.220  
Used In : namespace: opc  
Search-Keys : Java GUI, L10N

### **OPC\_JGUI\_SEV\_KO**

Description : Sets custom severities labels for Korean locale. OPC\_JGUI\_SEV\_KO must have value that consists of exactly six desired severity labels separated by comma(","). Values of these new labels must be in this specific order: UNKNOWN, NORMAL, WARNING, MINOR, MAJOR, CRITICAL (order by severity importance is mandatory for severity label to have correct meaning ). If user does not want to change one or more severity labels, character "?" can be used insted of custom severity label. To use custom

severity label that contains blanks (whitespaces),  
whole severity XPL variable value must be inside quotes.

Type/Unit : string  
Default : none  
Documented : N/A  
Since Rel. : 09.10.220  
Used In : namespace: opc  
Search-Keys : Java GUI, L10N

#### **OPC\_JGUI\_TOOLS\_FREQUENCY\_ENABLED**

Description : If enabled, the number of most frequently used tools can be set in the Preferences dialog on General tab.

Values:  
TRUE - Feature is enabled  
FALSE - Feature is disabled

Type/Unit : bool  
Default : TRUE  
Documented : N/A  
Since Rel. : 09.10.152  
Used In : namespace: opc  
Search-Keys : Java GUI, tools

#### **OPC\_JGUI\_VER\_DOWNLOAD\_URL**

Description : Specifies URL location for downloading Java GUI. It is used in version control startup warning/error dialogs. The value can be any valid URL location that is opened with external web browser.

Typical values:  
http://barney:3443/ITO\_OP/ (URL on HPOM server)  
\\wilma.hp.com\Shared\JavaUI (MS Win network location)  
X:\Shared\JavaUI (mounted windows location)

Type/Unit : string  
Default : none  
Documented : N/A  
Since Rel. : A.09.00  
Used In : namespace: opc  
Search-Keys : Java GUI, download, URL

#### **OPC\_JGUI\_WEBBRW\_APPL\_RESULT**

Description : If enabled, HTML output from the HPOM Application will be redirected to the Web Browser. If disabled, it will be shown in the Application Panel (old behavior).

Values:

TRUE - Redirection to Web Browser is enabled.

FALSE - Redirection to Web Browser is disabled.

Type/Unit : bool

Default : TRUE

Documented : N/A

Since Rel. : A.08.25

Used In : namespace: opc

Search-Keys : Java GUI, application, output, HTML, web browser

#### **OPC\_KILL\_OPCUIWWW**

Description : If this flag is set to TRUE, every time opcsv -stop is called or ovoareqsdr is being stopped, the disable\_java\_gui script is called and all running opcuiwww processes are killed. This configuration setting is applicable only when non-HTTPS Java GUI is used. HTTPS based Java GUI has its own mechanism to stop opcuiwww and this configuration setting is not needed. From version OMU 9 this setting is a replacement for OPC\_OPCCTLM\_KILL\_OPCUIWWW (see above).

Type/Unit : bool

Default : FALSE

Documented : N/A

Since Rel. : A.09.00

Used In : namespace: opc

Search-Keys : ovoareqsdr, opcuiwww, Java GUI, stop, disable\_java\_gui,

#### **OPC\_LOGONLY\_OUTAGE\_SKIP\_MSI**

Description : If this parameter is set to TRUE, messages, which are marked as log only due to configuration in the outage file, will not be sent to MSI. By default the log only messages are sent to MSI, if MSI is configured.

Type/Unit : boolean

Default : FALSE

Documented : N/A

Since Rel. : 09.10.230

Used In : namespace: opc

Search-Keys : opcmsgm, messages, outage, MSI

### **OPC\_LOG\_DROPPED\_MSGS**

Description : If TRUE, HPOM logs all dropped message errors (OpC40-648 and OpC40-649) to System.txt file. HPOM discards messages received from nodes, which are not managed by HPOM or for which OvCoreIds are different from the ones, known to the management server. The setting is useful to determine node names from which the discarded messages were sent.

Type/Unit : boolean  
Default : FALSE  
Documented : N/A  
Since Rel. : A.08.34  
Used In : namespace: opc  
Search-Keys : opcmsgm, logging, discard messages

### **OPC\_MAX\_AGE\_OF\_ACTIONS\_AT\_STARTUP**

Description : If OPC\_EXEC\_ACTIONS\_AT\_STARTUP is set to TRUE, you can tell which requests will be executed and which are 'too old' already.

Type/Unit : int , second  
Default : 7200  
Documented : N/A  
Since Rel. : A.04.00  
Used In : namespace: opc  
Search-Keys : opcactm, actions, startup

### **OPC\_MAX\_DUPL\_ANNO**

Description : Configure the maximum number of annotations that are added for the count and suppress duplicate feature. Maximal value for this variable is 99999 because of database limitation. If some greater value is set, that value will be ignored and value 99999 will be used instead. If set to 0, maximum number of duplicate message annotations is set to 99999.

Type/Unit : int  
Default : 0 (same as 99999)  
Documented : N/A  
Since Rel. : A.06.14; A.07.12  
Used In : namespace: opc  
Search-Keys : opcmsgm, duplicate message suppression, annotations

### OPC\_MAX\_JAVA\_GUIIS

Description : Limit for the maximum number of Java GUIs that can be simultaneously logged in.

Type/Unit : int

Default : 0 (unlimited)

Documented : N/A

Since Rel. : A.07.27; A.08.23

Used In : namespace: opc

Search-Keys : opcuwww, Java GUI, maximum, limit

### OPC\_MAX\_MSG\_LEN

Description : Limit for the size of a message. Some sanity checks are made on incoming messages. One check ascertains if the size of the data seems plausible. OPC\_MAX\_MSG\_LEN defines the accepted limit in bytes. If a message arrives that is bigger than the specified limit, the message is discarded or truncated.  
See also OPC\_TRUNC\_MSG.

Type/Unit : int

Default : 1048576 (1 MB)

Documented : N/A

Since Rel. :

Used In : namespace: opc

Search-Keys : opcqchk, opcsvqchk, limit, message size

### OPC\_MAX\_PORT\_RETRIES

Description : When DCE establishes that no more free ports are available (in particular when port-range is set), it executes a number of retries to get a free port. The default is 13 retries. Time between retries is 5 seconds. Time\_wait-status of closed sockets on HPUX is 60 sec. Total wait is longer than time\_wait\_of\_socket.  
See Firewall Concepts and Configuration Guide.

Type/Unit : int , retries each 5 seconds

Default : 13

Documented : N/A

Since Rel. : A.06.01

Used In : namespace: opc

Search-Keys : free port, retries

### OPC\_MGMTSV\_CHARSET

Description : Character Set of HPOM management server.  
Values: roman8,iso88591,ebcdic,sjis,euc,ASCII  
Type/Unit : string  
Default : iso88591  
Documented : N/A  
Since Rel. :  
Used In : namespace: eaagt, opc  
Search-Keys : configuration, character set

#### **OPC\_MGMTSV\_IPADDR\_ON\_LOAD\_BALANCER**

Description : Used for load balancer environments where one or more management servers are hidden behind a single virtual address hosted on the load balancer. The setting is needed for action execution. In case the agents can access the virtual address of the mgmt server(s) but not their physical address(es), any actions triggered from the server would hang. That's because the agent tries to send back the response to the "physical" server address. This setting must contain the IP address string in dot-notation of the virtual server address as it is known on the agents. See also OPC\_MGMTSV\_NAME\_ON\_LOAD\_BALANCER which must be set together with this setting.  
Config changes can be done at runtime.  
Example: server A and B are behind a load balancer which also acts as firewall. Both servers constitute a server pool with the virtual address myvirt.mycom.com IP 10.2.3.4. Agents use therefore myvirt.mycom.com for sec.core.auth:MANAGER  
OPC\_MGMT\_IPADDR\_ON\_LOAD\_BALANCER must be "10.2.3.4"  
Type/Unit : string  
Default : ""  
Documented : N/A  
Since Rel. : 09.10.230  
Used In : namespace: opc  
Search-Keys : opcactm, load balancer

#### **OPC\_MGMTSV\_NAME\_ON\_LOAD\_BALANCER**

Description : Used for load balancer environments where one or more management servers are hidden behind a single virtual address hosted on the load balancer. The setting is needed for action execution. In case the agents can access the virtual address of the mgmt server(s) but not their physical address(es), any actions triggered from the server would hang. That's because the agent tries to send back the response to the "physical" server address.



This setting must contain the fully qualified hostname of the virtual server address as it is known on the agents. See also OPC\_MGMTSV\_IPADDR\_ON\_LOAD\_BALANCER which must be set together with this setting. Config changes can be done at runtime. Example: server A and B are behind a load balancer which also acts as firewall. Both servers constitute a server pool with the virtual address myvirt.mycom.com IP 10.2.3.4. Agents use therefore myvirt.mycom.com for sec.core.auth:MANAGER OPC\_MGMT\_NAME\_ON\_LOAD\_BALANCER must be "myvirt.mycom.com"

Type/Unit : string  
Default : ""  
Documented : High Availability Through Server Pooling  
Since Rel. : 09.10.230  
Used In : namespace: opc  
Search-Keys : opcactm, load balancer

#### OPC\_MGMT\_SERVER

Description : Fully qualified hostname of the system hosting the HPOM management server.  
Type/Unit : string  
Default : unknown (set at installation time)  
Documented : N/A  
Since Rel. : A.01.00  
Used In : namespace: eaagt, opc  
Search-Keys : server hostname, configuration

#### OPC\_MODIFY\_OPCMONA\_RESET\_MESSAGES

Description : This variable is used by Message Manager (opcmsgm) to modify RESET messages from opcmona according to the value of the variable. If this variable is not set RESET message remain unchanged.

The following options are available:

ACTIVE : Delete log-only flag  
(makes message visible in browser)  
MSI\_DIVERT: Set MSI flags  
(for example, to pass messages to ECS)  
MSI\_COPY : As MSI\_DIVERT  
TT : trouble ticket flag (implies ACTIVE)  
TT\_ACK : trouble ticket + acknowledge by trouble ticket  
(implies ACTIVE)

The value can contain several options at once, in which case they should be comma-separated (no blanks).

Type/Unit : string  
Default : (not set)  
Documented : N/A  
Since Rel. : A.07.24; A.08.12  
Used In : namespace: opc  
Search-Keys : opcmsgm, reset messages, opcmona

#### **OPC\_MOM\_SEND\_OP\_ACK**

Description : When forwarded messages are acknowledged, the acknowledging operator id is sent with the acknowledgment to the source server instead of OpC or an empty string (see also OPC\_USE\_OPC\_FOR\_UNSET\_ACK\_OP).

Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : A.06.16  
Used In : namespace: opc  
Search-Keys : opcforwm, MoM, forwarding, Java GUI performance, acknowledgement

#### **OPC\_MSGFORW\_SYNC\_COREIDS**

Description : If set to TRUE, the OvCoreId of a node will be automatically updated by received messages in a MoM environment. When a message is received that was forwarded from another server, and the OvCoreID of the node from the message is different than the one in the database, the OvCoreId will be automatically updated in the database and the internal message OpC40-664 will be sent to notify the operators.

Type/Unit : boolean  
Default : FALSE  
Documented : N/A  
Since Rel. : A.08.34  
Used In : namespace: opc  
Search-Keys : opcmsgm, MoM, forwarding, OvCoreId sync

#### **OPC\_MSGKEY\_MODIFY\_TEXT**

Description : Messages (text) produced by Advanced monitoring policy can be

automatically pre-fixed as follows:  
If OPC\_MSGKEY\_MODIFY\_TEXT is set to TRUE (default is FALSE), the message text will be automatically modified depending on the state of the monitored variable. For initial message, text "START: " will be added to the beginning of the message text, while for continued (SETCONT) and end message (SETEND), text "CONT: " and "RESET: " will be added, respectively.

Type/Unit : boolean  
Default : FALSE  
Documented : N/A  
Since Rel. : A.09.10  
Used In : namespace: opc  
Search-Keys : advanced monitor policy, message text, message key

#### **OPC\_MSG\_BULK\_INSERT\_RATE**

Description : Central performance improvement feature. Specifies the maximum number of messages that can be added to the DB in one block. Should be set as multiples of 100. Good results have been achieved with a setting of 1000. Takes as many messages from the opcmsgm-input queues as available until the configured value is reached.

Type/Unit : int  
Default : 100  
Documented : Release Notes  
Since Rel. : A.09.00  
Used In : namespace: opc  
Search-Keys : opcmsgm, performance

#### **OPC\_MSG\_FLT\_EXCLUDE\_SVC**

Description : If set to TRUE, HPOM-internal messages do not carry over Service Name field from original message. The Service Name is then an empty value. This is the behavior that existed before the fix for defect QXCR1000321305 was implemented.

Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : A.07.27; A.08.25  
Used In : namespace: eaagt, opc  
Search-Keys : opcmsgm, service name, filtering, internal messages

### OPC\_MSG\_LOAD\_POLICY

Description : Loading the messages of a user from the database is heavily dependant on the configuration used. To allow some tuning, several message load policies are available and may be used to influence the behavior of message loading:

Following message load policies were introduced:

STATIC (default):

Load the complete responsibility at the beginning, pattern matching for external nodes is performed on demand.

MATCH\_IN\_ADVANCE:

Load the complete responsibility at the beginning, perform pattern matching of all external nodes against all entries in `opc_node_names` at the begin.

(Except for binary search this is the ITO 4.0 behavior).

DYNAMIC:

Only the message groups are loaded at the beginning. The nodes of the responsibility matrix are loaded on demand. Pattern matching for external nodes is also performed on demand.

ALLMSGS:

No responsibility check is used at all (you always see all messages).

NO\_EXT\_NO\_MISC:

The responsibility is included as restriction in the SQL statement to load the messages. This method can only be used if a user has no external nodes and no Misc message group.

Type/Unit : string  
Default : STATIC  
Documented : N/A  
Since Rel. : A.05.00  
Used In : namespace: opc  
Search-Keys : opcuwww, opcack, opcunack, API, loading messages, performance

### OPC\_MSG\_OPERATION\_KEEP\_TIME

Description : If a message on the target server is diverted to the MSI and delayed, the message operations (like auto action finished, acknowledge, ...) may be processed before the message itself has been added to the database. And because the message is not in the database, the message operation is discarded, and thus for example the auto action stays in state running.

To fix this, we implemented a message operation buffer within `opcmsgm`. It is now possible to configure the buffer time for message operations via the new config variable `OPC_MSG_OPERATION_KEEP_TIME` (in seconds, default is 3600, meaning 1 hour).

If a message is not in the database, the message operation will be buffered in memory. And whenever a message was added to the database by `opcmsgm`, `opcmsgm` checks the buffer list to see if message operations for this message are outstanding. At that time it will also check for expired message operations and discard those (we don't want to buffer them forever, since a message might have been discarded by ECS).

It is possible to switch to the old behavior again by configuring a buffer time of 0. In that case, message operations will be immediately discarded, if the message is not (yet) in the database.

Type/Unit	: int / seconds
Default	: 3600 (one hour)
Documented	: N/A
Since Rel.	: A.08.27
Used In	: namespace: opc
Search-Keys	: <code>opcmsgm</code> , message operations, buffering

#### **OPC\_MSI\_CREATE\_NEW\_MSGID**

Description : Controls the behavior of MSI-users in terms of message-id creation

The following values can be used:

1: Create a new message-id each time a message attribute is changed or the copy-operator is called. (ITO 4.0 behavior)

2: Set no new message-id when attributes are changed if this message is sent to only one instance.

To set no new message-id, the message must be 'diverted' and not 'copied', so that the HPOM management server or other MSI API-users also has a copy of it.

If you apply the API copy-operator to a message, the copied message is no longer 'diverted' and later attribute changes result in a new message-id. Note that the `message->orig_msgid` attribute which is accessible for API-users contains the original message-id if it was changed

(otherwise it contains a null-id). (ITO 5.0 behavior)

3: As 2, except that the copy-operator immediately creates a new message-id for the copy.

4: Message-ids are not modified at all. API-user is responsible for it.

Type/Unit : int , 1 <= n <= 4  
Default : 2  
Documented : N/A  
Since Rel. : A.05.00  
Used In : namespace: eaagt, opc  
Search-Keys : opcmsgm, API, MSI, message ID

#### **OPC\_NAMESRV\_CACHE\_SIZE**

Description : HPOM uses a name-resolution cache in all processes to improve performance. If the cache is full, least frequently used entries are replaced by new ones.  
For large environments, it is recommended to enlarge the cache size. (See also OPC\_NAMESRV\_\*).

Type/Unit : int  
Default : 5000  
Documented : N/A  
Since Rel. : A.05.00  
Used In : namespace: eaagt, opc  
Search-Keys : performance, name resolution, name service cache

#### **OPC\_NAMESRV\_DISABLE\_CACHE**

Description : Enable and disable HPOM name-service cache.  
(See also OPC\_NAMESRV\_\*).

Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : A.03.00  
Used In : namespace: eaagt, opc  
Search-Keys : performance, name resolution, name service cache

#### **OPC\_NAMESRV\_EXPIRE\_MODE**

Description : defines what to do with expired name service cache entries.

See OPC\_NAMESRV\_TTL for details.  
Values can be DISCARD (default) or REFRESH.

Type/Unit : string  
Default : DISCARD  
Documented : N/A  
Since Rel. : A.09.10  
Used In : namespace: opc  
Search-Keys : performance, name resolution, name service cache

### OPC\_NAMESRV\_MAX\_TIME

Description : Allowed resolution time for one node in milliseconds.  
You get a WARNING in the trace and opcerror file if the configured limit is exceeded:

Name resolution for node 'hostname.at.domain' took xxx milliseconds (exceeded the configured threshold of yyy) (OpC20-2212)

Note, that this is only for reporting, the name service call will NOT be terminated if the max time is reached.

You will need to use name service client settings for that (e.g. via the retry and retrans keywords in /etc/resolv.conf for DNS). The details depend on OS and used name service.

Type/Unit : int (milliseconds)  
Default : 200  
Documented : N/A  
Since Rel. : A.05.33  
Used In : namespace: eaagt, opc  
Search-Keys : performance, name resolution, name service cache

### OPC\_NAMESRV\_RETRIES

Description : Number of retries of gethostbyname and gethostbyaddr calls.  
If the gethostby\* call returns NULL (for example because the name service is not reachable, or host not found), it will be tried again OPC\_NAMESRV\_RETRIES times.

Type/Unit : int  
Default : 1  
Documented : N/A  
Since Rel. : A.03.00  
Used In : namespace: eaagt, opc  
Search-Keys : performance, name resolution, name service cache, retries

#### **OPC\_NAMESRV\_TTL**

Description : TTL-value (time-to\_live) for entries in the OMU name service cache. If the TTL is expired for a node, the entry will be discarded or refreshed dependent on OPC\_NAMESRV\_EXPIRE\_MODE (by default discard).  
This setting can be useful in environments where DNS entries frequently change.

Type/Unit : int, seconds  
Default : 0 (switched off)  
Documented : N/A  
Since Rel. : A.09.10  
Used In : namespace: opc  
Search-Keys : performance, name resolution, name service cache

#### **OPC\_NEW\_NAMERES\_NO\_LOOKUP**

Description : This can only be used if OPC\_NEW\_NAMERES is set to TRUE.  
If OPC\_NEW\_NAMERES\_NO\_LOOKUP is set to TRUE, dblib (and opcmsgm) do not contact the name service for any node. The node name and IP address from the agent are taken without any further checks.

Type/Unit : boolean  
Default : FALSE  
Documented : N/A  
Since Rel. : A.08.21  
Used In : namespace: opc  
Search-Keys : opcmsgm, name resolution, configuration

#### **OPC\_NOTIFICATION\_LOGONLY**

Description : If set to TRUE, it enables the HPOM user to select Notification service in a Message/Trap condition even if On Server Log Only option is checked. When OPC\_NOTIFICATION\_LOGONLY value is changed, the HPOM GUI has to be restarted.

Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : A.08.27  
Used In : namespace: opc  
Search-Keys : opcmsgm, configuraion, notification service



### **OPC\_NOTIF\_WHEN\_DUPLICATE**

Description : If you have enabled "Suppression of duplicated messages", the local automatic action is launched on each message, whereas the notification service is only launched once.

You can change this using the command:

```
# ovconfchg -ovrg server -ns opc -set \  
OPC_NOTIF_WHEN_DUPLICATE TRUE  
# ovconfchg -ovrg server -ns opc -set \  
OPC_TT_WHEN_DUPLICATE TRUE
```

which pass duplicates to the interfaces, with a 16th parameter containing the duplicate counter. The counter is zero if it is the first message or if this feature is not switched on.

Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : A.06.09  
Used In : namespace: opc  
Search-Keys : opcmsgm, duplicate message suppression, notification service

### **OPC\_NOTIF\_WHEN\_UNBUFFER**

Description : Notification services are assigned to pending messages as they are unbuffered, not when they are first received.

Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : A.06.16  
Used In : namespace: opc  
Search-Keys : opcmsgm, notification service, unbuffer

### **OPC\_NO\_ACK\_VIA\_CORR\_IF\_OWNED**

Description : If the value of OPC\_NO\_ACK\_VIA\_CORR\_IF\_OWNED is set to TRUE, owned messages are not acknowledged automatically by means of message key relation.

Type/Unit : boolean  
Default : FALSE

Documented : N/A  
Since Rel. : 09.10.200  
Used In : namespace: opc  
Search-Keys : opcmsgm, message key relation, acknowledge

#### **OPC\_NO\_API\_NODE\_NAME\_CHANGE\_WARN**

Description : If set to TRUE, the `opcnode_add()` and `opcnode_modify()` API functions do not return a warning code when the node name that was used based on the name service is different than the node name specified by the caller.

Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : A.06.12  
Used In : namespace: opc  
Search-Keys : opcnode, API, name service

#### **OPC\_NO\_HBP\_MSG\_CORRELATION**

Description : Do not correlate node-up and node-down messages and other HBP-related status messages. (Default behavior before VPO 6).

Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : A.06.00  
Used In : namespace: opc  
Search-Keys : ovoareqsdr, HBP

#### **OPC\_NO\_HIERARCHY\_SYNC**

Description : Do not sync the node hierarchies with the node bank at the end of `opccfgupld`.

Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : A.05.00  
Used In : namespace: opc  
Search-Keys : opccfgupld, node hierarchies, configuration upload

#### **OPC\_NO\_MSGKEYREL\_ANNO**

Description : Do not add annotations for messages that are acknowledged by message key relation - improves performance.  
Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : A.06.13; A.07.11  
Used In : namespace: opc  
Search-Keys : opcmsgm, message correlation, message annotation, performance

#### **OPC\_NO\_MSG\_FLT\_FOR\_BUFFER\_MSG**

Description : When internal message filtering is enabled, by default, all internal messages are passed on to the message interceptor. If this flag is set to TRUE, messages relating to the message agent's buffering (OpC40-1410 and OpC40-1411) are excluded and they are forwarded to the GUI/DB directly. This avoids the situation that these messages are also buffered.  
Type/Unit : boolean  
Default : FALSE  
Documented : N/A  
Since Rel. : A.07.23  
Used In : namespace: eaagt, opc  
Search-Keys : opcmsgm, filtering, internal messages, message interceptor

#### **OPC\_ONE\_LINE\_MSG\_FORWARD**

Description : M2M message forwarding: A HPOM server does not inform all other HPOM servers about a message change event (ackn, anno\_add, ..), but only the one from which it received the message and those to which it passed the message. If, for example, the 'last' server does an acknowledge, other servers are informed in a serial line.  
This can be useful in firewall environments.  
The OPC\_ONE\_LINE\_MSG\_FORWARD setting changes how a manager forwards messages to other servers. Normally, a manger adds itself to the list of managers to inform (and keeps all other managers in the list) when forwarding an already forwarded message.  
If OPC\_ONE\_LINE\_MSG\_FORWARD is set to TRUE, a manager will only put itself in the list of managers when forwarding it on (and remove previous servers). Therefore, the next manager only informs this manager about an acknowledge, etc., and this manager will inform the previous one. That also means that it

has an effect on managers down the line even if they don't have OPC\_ONE\_LINE\_MSG\_FORWARD set.

Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : A.04.00  
Used In : namespace: opc  
Search-Keys : opcforwm, MoM, forwarding, message change

#### **OPC\_ONLY\_ACTIVE\_MSGCHG\_FOR\_IWS**

Description : If OPC\_ONLY\_ACTIVE\_MSGCHG\_FOR\_IWS is set to TRUE, no message change is sent to the Incident Web Service if the message is already acknowledged.

Type/Unit : bool  
Default : FALSE  
Documented : Release Notes  
Since Rel. : 09.11.110  
Used In : namespace: opc  
Search-Keys :

#### **OPC\_OPCRLOGIN\_TIMEOUT**

Description : Under some circumstances like high load or long login scripts, opcrlogin (within the GUI) will not work because the default timeout is too short (2 sec). This causes the command to be entered before the login procedure has completed. This parameter is used to customize the timeout interval.

Type/Unit : int , second  
Default : 2  
Documented : N/A  
Since Rel. : A.03.00  
Used In : namespace: opc  
Search-Keys : opcrlogin, timeout

#### **OPC\_OUTAGE\_USE\_CREATE\_TIME**

Description : Use message creation time instead of time when message received on HPOM server for scheduled outage feature.

Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : A.05.00

Used In : namespace: opc  
Search-Keys : opcmsgm, outage, filtering, messages

#### **OPC\_OVHARG\_START\_LOCAL\_AGENT**

Description : Starting server HARG in a cluster environment will also start the local agent.  
Type/Unit : bool  
Default : TRUE  
Documented : N/A  
Since Rel. : A.09.00  
Used In : namespace: opc  
Search-Keys : HA, configuration, HARG start, local agent

#### **OPC\_OWN\_DISPLAY**

Description : Specify status-propagation for 'owned' messages.  
Type/Unit : string , values: STATUS\_PROPAGATE,NO\_STATUS\_PROPAGATE  
Default : NO\_STATUS\_PROPAGATE  
Documented : N/A  
Since Rel. : A.03.00  
Used In : namespace: opc  
Search-Keys : opcuwww, Java GUI, message ownership, status propagation

#### **OPC\_OWN\_DISPLAY\_JGUI\_UNDO**

Description : Undo OPC\_OWN\_DISPLAY behavior for message browser in the HPOM Java GUI Console.  
Type/Unit : boolean  
Default : FALSE  
Documented : N/A  
Since Rel. : A.07.25.1  
Used In : namespace: opc  
Search-Keys : opcuwww, Java GUI, message ownership, status propagation

#### **OPC\_OWN\_MODE**

Description : Specify the message ownership mode:  
OPTIONAL - User may take ownership of a message. Only the owner of a message has exclusive read-write access to the message. All other users who can view the message in

their browsers have only limited access to it.  
ENFORCED - User must take ownership of messages. Performing actions on a message will automatically own it.  
INFORM - Informational, concept of ownership is replaced with that of marking and unmarking. Unlike optional and enforced modes, informational mode does not restrict or alter operations on the message.

Type/Unit : string , values: ENFORCED,OPTIONAL,INFORM  
Default : ENFORCED  
Documented : N/A  
Since Rel. : A.03.00  
Used In : namespace: opc  
Search-Keys : opcuwww, API, message ownership

#### **OPC\_PING\_SIZE**

Description : Size of ping packets used during agent installation.  
Type/Unit : int  
Default : 64  
Documented : N/A  
Since Rel. : A.09.00  
Used In : namespace: opc  
Search-Keys : inst.sh, packet size, agent installation, IMCP ECHO

#### **OPC\_POLICYSTORM\_LEAVE\_VERSION**

Description : Policy based message storm scripts are removing template version string from message source, which is needed for A.08.51 or newer agents. In case older agents are used and customer has also given some templates name ending with version string (format (number.number) - e.g. (1.0)), this setting can be set to TRUE in order to prevent removal of the version string.  
Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : A.08.33  
Used In : namespace: opc  
Search-Keys : ECS, policy storm

#### **OPC\_POLICY\_LIST\_ITEMS\_PER\_PAGE**

Description : Defines the number of conditions per page that will be displayed in policy editor.

.  
Type/Unit : int  
Default : 50  
Documented : N/A  
Since Rel. : 09.11.100  
Used In : namespace: adminui  
Search-Keys : Administration UI, policy edit, conditions, items per page

#### **OPC\_POLICY\_LIST\_WIDGET\_SIZE**

Description : Defines the size of conditions area in policy editor.  
Acceptable value is greater or equals to 300, and size cannot be less than 300.

.  
Type/Unit : int  
Default : 300  
Documented : N/A  
Since Rel. : 09.11.100  
Used In : namespace: adminui  
Search-Keys : Administration UI, widget size, policy edit, conditions, height

#### **OPC\_POLICY\_OWNER**

Description : Defines the policy owner of policies distributed from this management server.  
See the Configuring Multiple Configuration Servers section in the HTTPS Agent Concepts and Configuration Guide for details about it is use.

Type/Unit : string  
Default : OVO:<server\_fully\_qualified\_name>  
Documented : N/A  
Since Rel. : A.08.00  
Used In : namespace: opc  
Search-Keys : opcbcdist, MoM, policy ownership, distribution

#### **OPC\_PRINT\_ALL\_LOCAL\_DB\_ERRORS**

Description : If TRUE, the DB-layer writes all HPOM errors and warnings to the opcerror file, even though they might not be passed back to the DB-routine caller.

Type/Unit : boolean  
Default : FALSE  
Documented : N/A

Since Rel. : A.04.00  
Used In : namespace: opc  
Search-Keys : database, logging, errors

#### **OPC\_Q\_MAX\_RETRY\_TIME**

Description : If there is no more disk-space or if the maximum allowed queue size is exceeded, this variable specifies for how long writing to a queue-file is attempted. If the threshold is passed, the associated processes terminate with an error.

Type/Unit : int , second  
Default : MAX\_INT (quasi infinite)  
Documented : N/A  
Since Rel. : A.04.00  
Used In : namespace: opc  
Search-Keys : queues, retry time

#### **OPC\_Q\_MAX\_SIZE**

Description : Newly created queue files have this size limit imposed. If the queue is within the limit, a queue element may be appended, resulting in a queue that is possibly slightly beyond the limit. If the queue file is larger than this limit, writing to the queue is not possible, and the same actions as if the disk was full are performed (shift queue and/or sleep up to OPC\_Q\_MAX\_RETRY\_TIME seconds, then fail). Has no effect on the reader of a queue.

Type/Unit : int , kbytes  
Default : 0 (unlimited)  
Documented : N/A  
Since Rel. : A.08.15  
Used In : namespace: opc, eaagt  
Search-Keys : queues, size limit

#### **OPC\_Q\_SYNC\_WRITES**

Description : If set to TRUE, updates to the queue are synchronized to the disk at critical places. This drastically reduces queue performance, but further reduces the chance of corrupted queue files. It's best to limit this parameter to opcmsgm.

Type/Unit : bool  
Default : FALSE  
Documented : N/A



Since Rel. : A.07.23  
Used In : namespace: eaagt, opc  
Search-Keys : queues

#### **OPC\_RECHECK\_AGENT\_ALIVE\_OVCD\_DOWN**

Description : For agent sends alive package:  
If ovoareqsdr gets an agent alive package that indicates that ovcd is down, and the new behavior is enabled by setting the config setting OPC\_RECHECK\_AGENT\_ALIVE\_OVCD\_DOWN to TRUE, ovoareqsdr will handle this as if it didn't get any alive package. That means it will initiate active heartbeat polling when the polling interval is reached.

If it was really a temporary situation, the active HBP will show that everything is OK, and no HBP error is sent.

If error is still present at that time you will get a HBP error. That HBP error will also be more specific than if it had been created from the alive package (if ovbbccb is down, an ovbbccb down error is created versus if only ovcd is down, an ovcd down error is created).

Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : A.08.31  
Used In : namespace: opc  
Search-Keys : ovoareqsdr, HBP, agent, alive package

#### **OPC\_REJECT\_CMA\_DELETIONS**

Description : This setting is useful in a MoM message forwarding environment with duplicate suppression, where OPC\_UPDATE\_DUPLICATED\_MSGTEXT or OPC\_UPDATE\_DUPLICATED\_SEVERITY settings are set to LAST\_MESSAGE.

When message duplication is detected on one of the management servers, the server sends message change event with CMA-s, which are known to this server, to the other servers further up in a message forwarding chain (receiving servers). Each of these receiving servers then deletes all

the CMA-s from the message it already has and adds the ones from the message change event.

If a server detects message duplication (a duplication detecting server), and some CMA-s were added before to the message (e.g. using MSI application) further up in the message forwarding chain, then these added CMA-s, which are not known to the duplication detecting server, might get only deleted and not added back on the receiving servers.

Setting OPC\_REJECT\_CMA\_DELETIONS to TRUE on the receiving servers will change the behavior so the CMA-s, received with message change event, will not be deleted, but only updated if they already exist or added otherwise. A side-effect is that no CMA deletion, forwarded from other servers, will be executed.

Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : A.08.35.010, 09.10.200  
Used In : namespace: opc  
Search-Keys : opcmsgm, MoM, forwarding, CMA, duplicate message suppression

#### **OPC\_REPLACE\_KNOWN\_NODE\_NAME\_BEFORE\_MSI**

Description : If this parameter is set to TRUE, opcmsgm will replace the <\$MGMTSV\_KNOWN\_MSG\_NODE\_NAME> variable in message key relations before passing the message to the MSI. Note that the variable is already being replaced in other attributes before the message is passed to the MSI. Setting this parameter to TRUE in a MoM environment will cause that any destination forwarding servers will get the variable already replaced with the node name on the source forwarding server.

Type/Unit : boolean  
Default : FALSE  
Documented : N/A  
Since Rel. : 09.10.250  
Used In : namespace: opc  
Search-Keys : opcmsgm, \$MGMTSV\_KNOWN\_MSG\_NODE\_NAME, MSI, message key relation,

#### **OPC\_REPLACE\_MGMTSV\_VARIABLE\_IN\_CMAS**

Description : When this variable is set to TRUE, Message Manager replaces OPC\_MGMTSV variable with management server's hostname in custom message attribute values when a message is received.

Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : A.08.34  
Used In : namespace: opc  
Search-Keys : opcmsgm, \$OPC\_MGMTSV, replace

#### **OPC\_RESOLVE\_MAC\_ADDRESS**

Description : If set, MAC addresses (0x<6 hex bytes>) are resolved.  
Otherwise the name service cache returns NULL.  
This can be set on both the agent and server.

Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : A.05.33  
Used In : namespace: eaagt, opc  
Search-Keys : configuration, name resolution

#### **OPC\_RESTRICT\_ACTIONS\_WITH\_FOREIGN\_SIGNATURE**

Description : If set to TRUE, all actions that are not signed by current  
mgmt server will be discarded unless CORE ID of the foreign  
mgmt server is listed in OPC\_ACCEPT\_ACTION\_SIGNATURES\_FROM  
config variable. Such situation can take place in MoM  
environments with Primary and Backup servers when you want  
to restrict executions of Auto and Oper actions signed by  
other servers.  
See also OPC\_ACCEPT\_ACTION\_SIGNATURES\_FROM setting.

Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : A.08.30  
Used In : namespace: opc  
Search-Keys : opcmsgm, MoM, forwarding, action, signature, security, policy

#### **OPC\_RPT\_COLUMNS\_PER\_LINE**

Description : Number of columns per line that the opcmsgsrpt report  
program uses for formatting the report output.

Type/Unit : 80 <= n <= 999  
Default : 86

Documented : N/A  
Since Rel. : 09.11.040  
Used In : namespace: opc  
Search-Keys : opcmsgsrpt, reporting

#### **OPC\_RPT\_LINES\_PER\_PAGE**

Description : Number of lines per page that the opcmsgsrpt report program uses for formatting the report output.  
Type/Unit : int  
Default : 55  
Documented : N/A  
Since Rel. : 09.11.040  
Used In : namespace: opc  
Search-Keys : opcmsgsrpt, reporting

#### **OPC\_RQS\_CHKALIVE\_MAX**

Description : HBP-interval for nodes where no HBP is configured or where the interval is very large. If a managed node is not reachable, this is used when OpenAgent requests are to be sent.  
Type/Unit : int , second, < 3600  
Default : 3600  
Documented : N/A  
Since Rel. : A.04.00  
Used In : namespace: opc  
Search-Keys : ovoareqsdr, HBP

#### **OPC\_RQS\_CHKALIVE\_MIN**

Description : Similar to OPC\_RQS\_CHKALIVE\_MAX.  
Type/Unit : int , second, > 60  
Default : 60  
Documented : N/A  
Since Rel. : A.04.00  
Used In : namespace: opc  
Search-Keys : ovoareqsdr, HBP

#### **OPC\_RQS\_CHKALIVE\_PROP**

Description : Speed up HBP by the configured factor if an OpenAgent request is to be sent to a currently unreachable managed node (See also OPC\_RQS\_CHKALIVE\_\*).

Type/Unit : int

Default : 10

Documented : N/A

Since Rel. : A.04.00

Used In : namespace: opc

Search-Keys : ovoareqsdr, HBP, unreachable

#### **OPC\_RQS\_NUM\_WORKERS**

Description : Number of ovoareqsdr threads available to communicate with agents. Since ovoareqsdr performs the heartbeat polling, it makes sense to increase this parameter if heartbeat polling is enabled for a lot of managed nodes. Otherwise ovoareqsdr may not be able to perform the heartbeat polling in time.

Type/Unit : 1 <= n <= 50

Default : 20

Documented : N/A

Since Rel. : A.04.00

Used In : namespace: opc

Search-Keys : ovoareqsdr, HBP, threads, performance

#### **OPC\_SEARCH\_BY\_IP\_FIRST**

Description : The node name is given priority over the IP address when mapping message node to node bank nodes. If OPC\_SEARCH\_BY\_IP\_FIRST is set TRUE, the IP address is given priority.

Type/Unit : bool

Default : FALSE

Documented : N/A

Since Rel. : A.08.24

Used In : namespace: opc

Search-Keys : opcmsgm, search, IP

#### **OPC\_SEND\_ACKN\_TO\_CTRL\_SWITCH**

Description : M2M message forwarding: Send acknowledge request to servers which received a message as 'controlled' (normal HPOM message).

Type/Unit : bool

Default : TRUE  
Documented : N/A  
Since Rel. : A.04.00  
Used In : namespace: opc  
Search-Keys : opcforwm, MoM, forwarding, acknowledgement

#### **OPC\_SEND\_ACKN\_TO\_NOTIF**

Description : M2M message forwarding: Send acknowledge request to servers which received a message as 'notify' (read-only).  
Type/Unit : bool  
Default : TRUE  
Documented : N/A  
Since Rel. : A.07.24  
Used In : namespace: opc  
Search-Keys : opcforwm, MoM, forwarding, acknowledgement

#### **OPC\_SEND\_ACT\_TO\_CTRL\_SWTCH**

Description : M2M message forwarding: Send action status change to servers which received the appropriate message as 'controlled' (normal).  
Type/Unit : bool  
Default : TRUE  
Documented : N/A  
Since Rel. : A.04.00  
Used In : namespace: opc  
Search-Keys : opcforwm, MoM, forwarding, action status

#### **OPC\_SEND\_ACT\_TO\_NOTIF**

Description : M2M message forwarding: Send action status change to servers which received the appropriate message as 'read-only'.  
Type/Unit : bool  
Default : TRUE  
Documented : N/A  
Since Rel. : A.04.00  
Used In : namespace: opc  
Search-Keys : opcforwm, MoM, forwarding, action status

#### **OPC\_SEND\_ANNO\_TO\_CTRL\_SWTCH**

Description : M2M message forwarding: Send annotation-add/del/change to servers which received the appropriate message as 'controlled' (normal).  
Type/Unit : bool  
Default : TRUE  
Documented : N/A  
Since Rel. : A.04.00  
Used In : namespace: opc  
Search-Keys : opcforwm, MoM, forwarding, annotation

#### **OPC\_SEND\_ANNO\_TO\_NOTIF**

Description : M2M message forwarding: Send annotation-add/del/change to servers which received the appropriate message as 'read-only'.  
Type/Unit : bool  
Default : TRUE  
Documented : N/A  
Since Rel. : A.04.00  
Used In : namespace: opc  
Search-Keys : opcforwm, MoM, forwarding, annotation

#### **OPC\_SEND\_MSG\_COUNT**

Description : Can switch off sending of message-count information (suppress duplicate messages on management server) using manager to manager message forwarding from source manager.  
Type/Unit : bool  
Default : TRUE  
Documented : N/A  
Since Rel. : A.06.00  
Used In : namespace: opc  
Search-Keys : opcforwm, MoM, forwarding, duplicate message suppression

#### **OPC\_SEND\_MSG\_MODIFY**

Description : Can switch off sending of message modify information (operator changes message text and/or severity) using manager to manager message forwarding from source manager.  
Type/Unit : bool  
Default : TRUE  
Documented : N/A  
Since Rel. : A.07.24  
Used In : namespace: opc

Search-Keys : opcforwm, MoM, forwarding, message change

#### **OPC\_SEND\_OWN\_DISOWN**

Description : Can switch off sending of message-own/disown information (operator owns/disowns messages) using manager to manager message forwarding from source manager.

Type/Unit : bool

Default : TRUE

Documented : N/A

Since Rel. : A.06.00

Used In : namespace: opc

Search-Keys : opcforwm, MoM, forwarding, message ownership

#### **OPC\_SERIALIZE\_SERVICE\_MODEL**

Description : Defines whether service model should be serialized. This brings much less chance of a coredump under a heavy load but decreases performance.

Type/Unit : bool

Default : FALSE

Documented : N/A

Since Rel. : 09.10.240

Used In : namespace: opc

Search-Keys : opcsvcm, performance, service engine

#### **OPC\_SERVHRS\_USE\_AGENT\_TZ**

Description : Scheduled-outage or service-hours: Use agent time zone for service-hours calculation.

Type/Unit : bool

Default : FALSE

Documented : N/A

Since Rel. : A.05.00

Used In : namespace: opc

Search-Keys : opcmsgm, outage, time zone, service hours, agent

#### **OPC\_SKIP\_ACTION\_SIGNATURE\_CHECK**

Description : If this variable is set to FALSE, action signature check is executed.



If this variable is set to TRUE, action signature check is completely switched off.

Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : A.08.00  
Used In : namespace: opc  
Search-Keys : opcmsgm, action, signature, security

#### **OPC\_SOURCE\_FORW\_NOTIF\_TO\_TT**

Description : M2M message forwarding:  
Pass forward-planned (to be forwarded) messages to Trouble-Ticket and Notification systems on the source server. This variable has no effect on messages that have been forwarded from another HPOM management server (QCCR1A112261). (See also OPC\_FORW\_NOTIF\_TO\_TT and see different defaults).

Type/Unit : bool  
Default : TRUE  
Documented : N/A  
Since Rel. : A.09.00  
Used In : namespace: opc  
Search-Keys : opcmsgm, MoM, forwarding, trouble ticket, notification

#### **OPC\_STOP\_MESSAGE\_FORWARDING**

Description : If set to TRUE, messages and message operations are not forwarded anymore, but they remain in the forwmgrq queue file. For any messages and message operations, already buffered (already read from the queue and not yet delivered), the delivery is stopped. When the setting is set back to FALSE, all messages and message operations, either buffered or the ones in the forwmgrq queue file, are forwarded.

Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : A.08.24  
Used In : namespace: opc  
Search-Keys : opcforwm, MoM, forwarding

#### **OPC\_SUPPRESS\_DUPL\_AFTER\_MSI**

Description : Currently, the check for duplication is done AFTER the message is processed by the message stream interface (MSI). However, the pre-A.06.09 behavior is still available by using OPC\_SUPPRESS\_DUPL\_AFTER\_MSI FALSE

Type/Unit : boolean

Default : TRUE

Documented : N/A

Since Rel. : A.06.09

Used In : namespace: opc

Search-Keys : opcmsgm, MSI, duplicate message suppression

#### **OPC\_SUPPRESS\_DUPL\_MSGID\_BEFORE\_MSI**

Description : If this parameter is set to TRUE, opcmsgm will maintain a list of message IDs, so that it can discard messages with an already existing ID before passing the message to the MSI. This is useful in a MoM message forwarding environment, if messages can come to the same server on multiple paths.

Type/Unit : boolean

Default : FALSE

Documented : N/A

Since Rel. : A.08.32; 09.10.200

Used In : namespace: opc

Search-Keys : opcmsgm, forwarding, MoM, MSI, duplicate message ID

#### **OPC\_SUPPRESS\_DUPL\_MSG\_KEY\_ONLY**

Description : If this parameter is set to TRUE, the count and suppress duplicates check will only performed for messages that have a message key defined. This will help customers who haven't changed all their templates to use message keys to avoid big delays, because suppress/count duplicates on all message attributes is REALLY slow.

Type/Unit : boolean

Default : FALSE

Documented : N/A

Since Rel. : A.08.27

Used In : namespace: opc

Search-Keys : opcmsgm, duplicate message suppression, message key, performance

#### **OPC\_SUPPRESS\_ERROR\_LIST**

Description : A comma-separated list of <msgset>-<msgnbr> values to suppress

error messages (OpC<msgset>-<msgnbr>) output to all error message output targets. Set the setting on a by process basis as some binaries may output the same error message on error condition and suppressing the message would alter the normal output. Do not insert any whitespaces.

Example to suppress error messages OpC50-10 and OpC50-202 for opcmmsgm process:

```
ovconfchg -ovrg server -ns opc.opcmmsgm \  
-set OPC_SUPPRESS_ERROR_LIST \  
"50-10,50-202"
```

Type/Unit	: string
Default	:
Documented	: N/A
Since Rel.	: A.08.30
Used In	: namespace: eaagt, opc
Search-Keys	: error message suppression, logging

#### **OPC\_SUPPRESS\_IF\_NO\_CORRELATION**

Description : Enables suppressing of messages that have msg correlation pattern set but they don't correlate with any existing active message (through msgkeys). Additionally such message must match msg group, application and object with corresponding configuration setting (filter). These additional config. settings are:  
OPC\_SUPPRESS\_IF\_NO\_CORRELATION\_MSGGROUP  
OPC\_SUPPRESS\_IF\_NO\_CORRELATION\_MSGAPPLICATION  
OPC\_SUPPRESS\_IF\_NO\_CORRELATION\_MSGOBJECT

If above configuration settings are left blank or not set then msg attribute filtration will be skipped and all messages will be considered/processed for suppression, including some important OMU internal messages! In this case even OMU internal messages can be suppressed, since some of them have msg correlation pattern set as well. Therefore it is highly recommended to set them accordingly.

Note that this functionality does not work as a Message Suppression and Duplicate Count functionality. If enabled this functionality can have impact on opcmmsgm performance, especially when there are a lot of active messages with msgkeys defined. In some rare cases when huge message load takes place, it may happen that some msg which should be suppressed sneaks into active messages.

Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : A.09.00  
Used In : namespace: opc  
Search-Keys : opcmsgm, message suppression, message correlation,

#### **OPC\_SUPPRESS\_IF\_NO\_CORRELATION\_MSGAPPLICATION**

Description : When OPC\_SUPPRESS\_IF\_NO\_CORRELATION is enabled this setting filters messages according to msg applications (comma separated). Messages that don't match configured msg application aren't suppressed.  
If this parameter isn't set or left empty then msg application filtration/checking is skipped, meaning that all message applications are considered for possible suppression. Avoid the following values for this setting:  
- "" or <unset> because all msg applications will "match"  
- HP OpenView Operations, OpenView because they are used by OMU internal msgs and this may suppress them.

See also: OPC\_SUPPRESS\_IF\_NO\_CORRELATION,  
OPC\_SUPPRESS\_IF\_NO\_CORRELATION\_MSGGROUP and  
OPC\_SUPPRESS\_IF\_NO\_CORRELATION\_MSGOBJECT.

Type/Unit : string  
Default : ""  
Documented : N/A  
Since Rel. : A.09.00  
Used In : namespace: opc  
Search-Keys : opcmsgm, message suppression, message correlation,

#### **OPC\_SUPPRESS\_IF\_NO\_CORRELATION\_MSGGROUP**

Description : When OPC\_SUPPRESS\_IF\_NO\_CORRELATION is enabled this setting filters messages according to msg groups (comma separated). Messages that do not match configured msg group are not suppressed.  
If this parameter isn't set or left empty then msg group filtration/checking is skipped, meaning that all message groups are considered for possible suppression. Avoid the following values for this setting:  
- "" or <unset> because all msg groups will "match"

- OpC, OpenView because they are used by OMU internal msgs and this may suppress them.

See also: OPC\_SUPPRESS\_IF\_NO\_CORRELATION,  
OPC\_SUPPRESS\_IF\_NO\_CORRELATION\_MSGAPPLICATION and  
OPC\_SUPPRESS\_IF\_NO\_CORRELATION\_MSGOBJECT.

Type/Unit : string  
Default : ""  
Documented : N/A  
Since Rel. : A.09.00  
Used In : namespace: opc  
Search-Keys : opcmsgm, message suppression, message correlation,

#### **OPC\_SUPPRESS\_IF\_NO\_CORRELATION\_MSGOBJECT**

Description : When OPC\_SUPPRESS\_IF\_NO\_CORRELATION is enabled this setting filters messages according to msg objects (comma separated). Messages that don't match configured msg object aren't suppressed.  
If this parameter isn't set or left empty then msg object filtration/checking is skipped, meaning that all message objects are considered for possible suppression. Avoid the following values for this setting:  
- "" or <unset> because all msg objects will "match"  
- opcbbcdist (BBC config adapter), ovcd,..., because they are used OMU internal msgs and this might suppress them.

See also: OPC\_SUPPRESS\_IF\_NO\_CORRELATION,  
OPC\_SUPPRESS\_IF\_NO\_CORRELATION\_MSGGROUP and  
OPC\_SUPPRESS\_IF\_NO\_CORRELATION\_MSGAPPLICATION.

Type/Unit : string  
Default : ""  
Documented : N/A  
Since Rel. : A.09.00  
Used In : namespace: opc  
Search-Keys : opcmsgm, message suppression, message correlation,

#### **OPC\_SUPPRESS\_OUTAGE\_BEFORE\_MSI**

Description : If this parameter is set to TRUE, opcmsgm will suppress messages that are suppressed due to scheduled outage as configured in the outage file before passing the message to the MSI. By default the outage processing is done

after the MSI.  
Type/Unit : boolean  
Default : FALSE  
Documented : N/A  
Since Rel. : A.08.33; 09.10.200  
Used In : namespace: opc  
Search-Keys : opcmsgm, MSI, outage, message suppression

#### **OPC\_SVCM\_ADD\_WARN\_IF\_EXISTS**

Description : TRUE: If, during the 'Add' operation, the object is found to already exist, warnings are sent from opcsvcm.  
FALSE: No warnings are sent even if the object already exists.  
Type/Unit : bool  
Default : TRUE  
Documented : N/A  
Since Rel. : A.07.19  
Used In : namespace: opc  
Search-Keys : opcsvcm, error, logging, services

#### **OPC\_SVCM\_ERROR\_CHECKING**

Description : Controls the amount of error checking to be done by opcsvcm before an Add, Replace, or AddLoggings operation is completed.  
  
FULL: All warnings are sent in <Warning> tags while all Errors are sent in an <Error> tag. If Errors occur, the operation is not executed.  
  
WARNONLY: All warnings and errors are sent in <Warning> tags. The operation is completed.  
  
NONE: Previous behavior, No Error Checking.  
  
Type/Unit : string, FULL/WARNONLY/NONE  
Default : FULL  
Documented : N/A  
Since Rel. : A.07.19  
Used In : namespace: opc  
Search-Keys : opcsvcm, error checking, services

#### **OPC\_SVCM\_UPDATE\_SERVICE\_TABLES**

Description : If set to TRUE, HPOM maintains the `opc_op_service` table, even though `OPCUIWWW_NORESP_SVCMSG` is set to TRUE or not set. The `opc_op_service` table is used for reporting and by other products.

Note: This may significantly reduce performance of service modifications (add, replace, assign and de-assign).

Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : A.07.23; A.08.10  
Used In : namespace: opc  
Search-Keys : opcsvcm, service, performance, database, reporting

#### **OPC\_SVC\_CALC0**

Description : Enables or disables the Overall Service Status Calculation view on `opcsvm`. The Overall view is based on all messages present in the active message browser.

IMPORTANT: You must enable at least one service status calculation view. Otherwise Service Navigator fails to start.

Type/Unit : boolean  
Default : TRUE  
Documented : N/A  
Since Rel. : A.08.10  
Used In : namespace: opc  
Search-Keys : opcsvcm, service engine, overall status calculation

#### **OPC\_SVC\_CALC1**

Description : Enables or disables the Operational Service Status Calculation view on `opcsvm`. The Operational view is based on all non-owned messages present in the active message browser.

IMPORTANT: You must enable at least one service status calculation view. Otherwise Service Navigator fails to start.

Type/Unit : boolean  
Default : TRUE  
Documented : N/A  
Since Rel. : A.08.10  
Used In : namespace: opc  
Search-Keys : opcsvcm, service engine, operational status calculation

#### **OPC\_SVC\_CALC\_NAME0**

Description : Renames the Overall Service Status Calculation view.  
Type/Unit : string  
Default : Overall  
Documented : N/A  
Since Rel. : A.08.10  
Used In : namespace: opc  
Search-Keys : opcsvcm, service engine, overall status calculation

#### **OPC\_SVC\_CALC\_NAME1**

Description : Renames the Operational Service Status Calculation.  
Type/Unit : string  
Default : Operational  
Documented : N/A  
Since Rel. : A.08.10  
Used In : namespace: opc  
Search-Keys : opcsvcm, service engine, operational status calculation

#### **OPC\_SVC\_DEFAULT\_CALC**

Description : Specifies the default service status calculation view on opcsvm. For view set as default, the service severity change events are returned in the ElementStatusChange tag, for non-default view, they are returned in the ElementMultiStatusChanges tag. In the Java GUI, new service graphs and maps are opened in the default view.  
0: The default calc view is Overall  
1: The default calc view is Operational

Type/Unit : integer, (0 or 1)  
Default : 0  
Documented : N/A  
Since Rel. : A.08.10  
Used In : namespace: opc  
Search-Keys : opcsvcm, service engine, status calculation

#### **OPC\_SYNC\_MSGKEY\_AND\_DUP**



Description : If set to TRUE, the opcmgm main thread waits for the message key correlation thread to complete execution before it checks if a message with a message key is a duplicate of another message.  
Setting this variable to TRUE might reduce message throughput, because execution of the main thread and the message key correlation thread are effectively serialized and thus the two threads cannot take advantage of a multi CPU system.

Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : A.07.22  
Used In : namespace: opc  
Search-Keys : opcmgm, message key correlation, performance,

#### OPC\_TRACE

Description : Enable agent or server trace.  
Processes such as ovbbccb and ovcd, do not support HPOM-style tracing. For the processes prefixed with "opc" HPOM-style + XPL-style tracing can be switched on and used independently.

To enable HPOM-style tracing on an OM server, use the command:

```
# ovconfchg -ovrg server -ns opc -set OPC_TRACE TRUE
```

To enable HPOM-style tracing on a managed node, use the command:

```
# ovconfchg -ns eaagt -set OPC_TRACE TRUE
```

The related variables OPC\_TRACE\_AREA, OPC\_DBG\_PROCS etc. can be set in the same manner. The ovconfchg call automatically informs all consumers about configuration changes (means opcagt -trace and opcsv -trace are no longer required to enable tracing at runtime).

Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : A.03.00  
Used In : namespace: eaagt, opc  
Search-Keys : trace

### OPC\_TRACE\_AREA

Description : Specify agent or server trace areas.  
Values: ALL,MISC,MSG,ACTN,NAME,ALIVE,DIST,INST,INT,DB,GUI,  
LIC,INIT,NLS,SEC,OCOMM,DEBUG,PERF,API,AUDIT,NTPRF,SRVC,MON  
MEMERR,MEM,FCT,WMI,AGTID,PDH,APM,PSTATE

Type/Unit : string  
Default : MSG,ACTN  
Documented : N/A  
Since Rel. : A.04.00  
Used In : namespace: eaagt, opc  
Search-Keys : trace, area

### OPC\_TRACE\_CHILD

Description : Flag whether tracing is enabled between fork and execute  
for the child process (enabling can lead to mutex deadlock  
on multiprocessor machines).

Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : A.06.16  
Used In : namespace: eaagt, opc  
Search-Keys : trace

### OPC\_TRACE\_TRUNC

Description : Specify whether agent or server trace line length is limited.

Type/Unit : bool  
Default : TRUE  
Documented : N/A  
Since Rel. : A.04.00  
Used In : namespace: eaagt, opc  
Search-Keys : trace

### OPC\_TRACE\_UNKN\_AREAS

Description : Also trace statements from "unknown" DEBUG trace areas.

Type/Unit : bool  
Default : FALSE  
Documented : N/A

Since Rel. : A.04.00  
Used In : namespace: eaagt, opc  
Search-Keys : trace

#### **OPC\_TRC\_PROCS**

Description : List processes to be traced, if you do not want to trace all processes.  
Type/Unit : string  
Default : ALL  
Documented : N/A  
Since Rel. : A.04.00  
Used In : namespace: eaagt, opc  
Search-Keys : trace

#### **OPC\_TRUNC\_MSG**

Description : When incoming message size is higher than OPC\_MAX\_MSG\_LEN this setting enables to truncate message text and original message text. This truncation will decrease overall message size below OPC\_MAX\_MSG\_LEN.  
If a message can not be truncated due to short message texts or since message is corrupted it will be discarded.  
See also OPC\_MAX\_MSG\_LEN and OPC\_TRUNCATE\_ORIG\_TEXT (Agent).  
Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : A.09.00  
Used In : namespace: opc  
Search-Keys : message text truncation

#### **OPC\_TRUSTED\_SERVER\_COREIDS**

Description : A comma-separated list of trusted core-ids, used in Shared-CA environment to inform the server that additional to the local CA, action signatures from any CA in the trusted list can be accepted.

Example to add a Trusted server core ID:

```
ovconfchg -ovrg server -ns opc \
-set OPC_TRUSTED_SERVER_COREIDS \
cd04201e-295a-7507-1fbd-890eb6333944
```

Type/Unit : string  
Default :  
Documented : N/A  
Since Rel. : A.08.12  
Used In : namespace: opc  
Search-Keys : messages, action signature, CA, MoM, core id, trusted server

#### **OPC\_TTNS\_KILL\_ON\_TIMEOUT**

Description : If OPC\_TTNS\_KILL\_ON\_TIMEOUT is set to TRUE, opcttnsm will kill the running program after OPC\_TTNS\_TIMEOUT elapses. Otherwise the program will continue to run and you can check for the reason why the program timed out and if necessary kill it.

Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : A.07.26; A.08.12  
Used In : namespace: opc  
Search-Keys : opcttnsm, trouble ticket, notification, timeout

#### **OPC\_TTNS\_MAX\_CALLS**

Description : Maximum number of trouble ticket and notification calls that can run in parallel. Before increasing this number, you should make sure that your trouble ticket interface program and notification service program can handle multiple messages in parallel.

Type/Unit : string  
Default : 1 (serial processing)  
Documented : N/A  
Since Rel. : A.07.24; A.08.12  
Used In : namespace: opc  
Search-Keys : opcttnsm, trouble ticket, notification

#### **OPC\_TTNS\_TIMEOUT**

Description : Timeout for TT/NS calls which is 300 sec by default. The timeout can be configured with the OPC\_TTNS\_TIMEOUT configuration variable (0 means no timeout). For example to define a timeout of 10 min: Set OPC\_TTNS\_TIMEOUT to 600.

If the timeout is reached, opcttnsm will send a message, ignore this TT/NS call and continue to process the next request.

See also OPC\_TTNS\_KILL\_ON\_TIMEOUT.

Type/Unit : int  
Default : 300  
Documented : N/A  
Since Rel. : A.07.26; A.08.12  
Used In : namespace: opc  
Search-Keys : opcttnsm, trouble ticket, notification, timeout

#### **OPC\_TT\_ACT\_BUFFER\_CHECK**

Description : Determines how often the Action Manager checks its buffer for buffered responses.  
Type/Unit : int (seconds)  
Default : 60  
Documented : N/A  
Since Rel. : A.06.15  
Used In : namespace: opc  
Search-Keys : opcactm, buffered action response

#### **OPC\_TT\_MAX\_RESP\_AGE**

Description : The amount of time that an action response can stay buffered before it is deleted.  
Type/Unit : int (minutes)  
Default : 720  
Documented : N/A  
Since Rel. : A.06.16  
Used In : namespace: opc  
Search-Keys : opcactm, buffered action response

#### **OPC\_TT\_SHOW\_FORW\_MGR**

Description : If this setting is set to TRUE, then name of the HPOM server that forwarded a message to this server is sent as parameter to a trouble-ticket and notification service system (after the number of suppressed duplicate messages).  
Type/Unit : boolean  
Default : FALSE  
Documented : Release Notes  
Since Rel. : A.08.33

Used In : namespace: opc  
Search-Keys : opcttnsm, MoM, message forwarding, trouble ticket, notification

#### **OPC\_TT\_SKIP\_RESP\_OPER**

Description : Skip determination of responsible operators when forwarding a message to a trouble ticket system. This will significantly improve processing performance within opcttnsm.

Type/Unit : boolean  
Default : FALSE  
Documented : N/A  
Since Rel. : A.07.24  
Used In : namespace: opc  
Search-Keys : opcttnsm, message forwarding, trouble ticket, notification,

#### **OPC\_TT\_WAIT\_FOR\_ACTION**

Description : Forces opcttnsm to wait for the auto action attached to the message to finish before calling the Trouble Ticket or Notification Service script/external program. By default, opcttnsm waits 70 seconds unless OPC\_TT\_WAIT\_TIMEOUT is specified.

Type/Unit : boolean  
Default : FALSE  
Documented : N/A  
Since Rel. : A.06.16  
Used In : namespace: opc  
Search-Keys : opcttnsm, auto action, trouble ticket, notification

#### **OPC\_TT\_WAIT\_TIMEOUT**

Description : Determines how long opcttnsm waits for an auto action to complete before the Trouble Ticket script is called. This variable is only valid if OPC\_TT\_WAIT\_FOR\_ACTION is set to TRUE.

Type/Unit : int <seconds>  
Default : 70  
Documented : N/A  
Since Rel. : A.06.16  
Used In : namespace: opc  
Search-Keys : opcttnsm, auto action, trouble ticket, notification, timeout

### **OPC\_TT\_WHEN\_DUPLICATE**

Description : Pass messages to trouble ticket although they are duplicates of other messages. See also OPC\_NOTIF\_WHEN\_DUPLICATE.

Type/Unit : string

Default : FALSE

Documented : N/A

Since Rel. : A.06.09

Used In : namespace: opc

Search-Keys : opcmsgm, duplicate message suppression, trouble ticket

### **OPC\_UNACK\_ON\_DUPL\_EVENT**

Description : When set to TRUE, the message manager that receives a 'duplicate counter' event via M2M forwarding from another server for a history message, will unacknowledge the message. This helps when servers are out of sync.

Type/Unit : bool

Default : FALSE

Documented : N/A

Since Rel. : A.07.23

Used In : namespace: opc

Search-Keys : opcmsgm, MoM, forwarding

### **OPC\_UPDATE\_DUPLICATED\_MSGTEXT**

Description : Set OPC\_UPDATE\_DUPLICATED\_MSGTEXT=LAST\_MESSAGE to update the message text of the original message, if a message arrives at the server that is suppressed and counted as duplicate.

Type/Unit : string

Default : LAST\_MESSAGE

Documented : N/A

Since Rel. : A.07.16

Used In : namespace: opc

Search-Keys : opcmsgm, duplicate message suppression, message text

### **OPC\_UPDATE\_DUPLICATED\_SEVERITY**

Description : Set OPC\_UPDATE\_DUPLICATED\_SEVERITY=LAST\_MESSAGE to update the severity of the original message, if a message

arrives at the server that is suppressed and counted as duplicate.

Type/Unit : string  
Default : LAST\_MESSAGE  
Documented : N/A  
Since Rel. : A.07.16  
Used In : namespace: opc  
Search-Keys : opcmsg, duplicate message suppression, message severity

#### **OPC\_UPDWN\_COMMIT\_COUNT**

Description : For history download, after the configured number of messages are downloaded, a commit is done to release locks.

Type/Unit : int  
Default : 100  
Documented : N/A  
Since Rel. : A.05.00  
Used In : namespace: opc  
Search-Keys : opchistdwn, opcsvcupl, opcsvcdwn, opcactdwn, performance, commit

#### **OPC\_USE\_ACTION\_TIME\_FORW\_ANNO**

Description : Since 9.11.130, OMU will use the current time as annotation time in message operations due to a finished action (which is in line with what OML does, but BSM uses the time from the message operation). By setting OPC\_USE\_ACTION\_TIME\_FORW\_ANNO to TRUE, you can use the old behavior to use the time as reported by the agent.

Type/Unit : bool  
Default : FALSE  
Documented : Release Notes  
Since Rel. : 09.11.130  
Used In : namespace: opc  
Search-Keys :

#### **OPC\_USE\_ADVANCED\_RAW\_EDITOR**

Description : Determines if Administration UI application should use new policy editor. IF set to TRUE Administration UI application will use new editor when edit polices in raw mode. Otherwise old editor will be used.

Type/Unit : bool  
Default : FALSE



Documented : N/A  
Since Rel. : 09.11.040  
Used In : namespace: adminui  
Search-Keys : Administration UI, policy editor, raw editor

#### **OPC\_USE\_HBP\_INFO\_FOR\_REQUEST\_SENDING**

Description : ovoareqsdr sends requests to managed nodes depending on the heartbeat-polling status. Example: Action requests are not sent if HBP tells that the target node is unreachable. Advantage: Less network traffic. Disadvantage: Requests are not sent even though the node is reachable but the last heartbeat-polling status suggests that the node is unreachable.

Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : A.05.00  
Used In : namespace: opc  
Search-Keys : ovoareqsdr, HBP status, sending requests

#### **OPC\_USE\_JB\_MSGS\_GET**

Description : If set to TRUE, loading messages uses SQL to filter messages. In environments with a large volume of history messages, opening the filtered history browser when using the new filtering can take a long time.

If set to FALSE, loading messages applies some SQL filtering, but most of the filtering is done in memory and usually results in faster opening the filtered history browser in environments with a large volume of history messages.

Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : A.07.17  
Used In : namespace: opc  
Search-Keys : opcuwww, Java GUI, performance

#### **OPC\_USE\_LOWERCASE**

Description : Convert all node names to lower case in the name service cache. This avoid problems with the name server returning

the same name with differing case.  
When switching to OPC\_USE\_LOWERCASE, you should also run "opcdbidx -lower" to convert all node names of IP nodes in the database to lower case.

Type/Unit : bool  
Default : TRUE  
Documented : N/A  
Since Rel. : A.05.33  
Used In : namespace: opc  
Search-Keys : name resolution, lower case

#### **OPC\_USE\_OPC\_FOR\_UNSET\_ACK\_OP**

Description : The message operation handling in opcmsgm was fixed to use an empty string ("") instead of "OpC" if acknowledge user is not set. This implies two changes to the current behavior:  
+ Acknowledge user of messages acknowledged by opcmack will be ""  
+ Messages forwarded from another server via DCE message forwarding with no user set will have an empty acknowledge user (so far it was "OpC" for messages forwarded via DCE forwarding and "" for messages forwarded via HTTPS forwarding).  
For backward compatibility, this old behavior can be enabled again by setting the config setting OPC\_USE\_OPC\_FOR\_UNSET\_ACK\_OP to TRUE.

Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : A.08.31  
Used In : namespace: opc  
Search-Keys : opcmsgm, backward compatibility, acknowledge user

#### **OPC\_USE\_PAM\_AUTH**

Description : If set to TRUE, this setting will instruct HPOM to use PAM as authentication mechanism (Unix users, Kerberos, LDAP).  
See also OPC\_USE\_PAM\_FAILED\_LOGIN\_COUNTER.

Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : A.08.10.160  
Used In : namespace: opc  
Search-Keys : PAM

#### **OPC\_USE\_PAM\_FAILED\_LOGIN\_COUNTER**

Description : If set to TRUE and if PAM is enabled OPC\_USE\_PAM\_AUTH = TRUE, this setting will enable Failed login counting for each user/operator in his/her name space 'user.<username>'. Then these parameters are being updated in each 'user.<username>' ns:  
FAILED\_LOGIN\_ATTEMPT\_COUNTER=3 Counter  
LAST\_FAILED\_LOGIN\_ATTEMPT=1197559311 Time in secs since 1970  
LOGIN\_ATTEMPT\_DELAY=60 Delay in secs

After 3rd failed login, logins for this user will be blocked if LOGIN\_ATTEMPT\_DELAY did not elapse yet.  
See also OPC\_USE\_PAM\_AUTH.

Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : A.08.30  
Used In : namespace: opc  
Search-Keys : authentication, security, Java GUI, PAM, LDAP, Kerberos, API,

#### **OPC\_USE\_PAM\_RESET\_COUNTER\_AND\_DELAY**

Description : If set to TRUE and PAM is enabled (OPC\_USE\_PAM\_AUTH = TRUE) and OPC\_USE\_PAM\_FAILED\_LOGIN\_COUNTER is set to TRUE, this setting enables a reset of FAILED\_LOGIN\_ATTEMPT\_COUNTER and LOGIN\_ATTEMPT\_DELAY after a successful login.  
See also OPC\_USE\_PAM\_AUTH and OPC\_USE\_PAM\_FAILED\_LOGIN\_COUNTER.

Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : 09.11.100  
Used In : namespace: opc  
Search-Keys : authentication, security, Java GUI, PAM, LDAP, Kerberos, API,

#### **OPC\_XPL\_SQL\_TRACE**

Description : Enables Xpl SQL tracing  
Type/Unit : boolean  
Default : FALSE  
Documented : N/A  
Since Rel. : A.09.00  
Used In : namespace: opc  
Search-Keys : logging, XPL tracing, SQL, performance

#### **OVCOR\_APPL\_TIMEOUT**

Description : The configured timeout that opcuwww waits for a response from an application.  
Type/Unit : int (seconds?)  
Default : 0 (no timeout)  
Documented : N/A  
Since Rel. :  
Used In : namespace: opc  
Search-Keys : opcuwww, Java UI, application response, timeout

#### **REQUEST\_TIMEOUT**

Description : Time limit after which undeliverable messages and message operations are discarded. Increase this value if you expect frequent communication failures that last longer than one hour. You can set it to 0 for unlimited timeout.  
Type/Unit : int (in seconds)  
Default : 3600  
Documented : N/A  
Since Rel. : A.08.10  
Used In : namespace: opc.opcforwm  
Search-Keys : opcforwm, MoM, forwarding, undeliverable, timeout

#### **SERVER\_PORT**

Description : Port on which opcuhttps process listens for incoming HTTPS connections from Java GUI clients.  
Type/Unit : integer  
Default : 35211  
Documented : High Availability Through Server Pooling  
Since Rel. : A.08.14  
Used In : namespace: opc.opcuhttps  
Search-Keys : opcuhttps, HTTPS, Java GUI, port

#### **SSL\_CLIENT\_VERIFICATION\_MODE**

Description : Specifies whether the opcuhttps server accepts anonymous connections from clients. Clients are usually Java GUI console clients, but can also be web browsers. If set to RequireCertificate, clients require the certificate for (full) authentication.

Defined and consumed by BBC Http Client.

Type/Unit : string (Anonymous / RequireCertificate )  
Default : Anonymous  
Documented : N/A  
Since Rel. : A.08.14  
Used In : namespace: opc.opcuihttps  
Search-Keys : opcuihttps, Java GUI, security, certificate, authentication

### **STARTUP\_MESSAGE\_VISIBLE**

Description : Determines if Administration UI application should display message window after user successfully login. IF set to TRUE Administration UI application will display startup message.

Type/Unit : bool  
Default : FALSE  
Documented : N/A  
Since Rel. : 09.11.040  
Used In : namespace: adminui  
Search-Keys : Administration UI, startup message

### **\_M\_ARENA\_OPTS**

Description : Environment variable for controlling the HP-UX memory allocation mechanism when ovoareqsdr or opcctlm start one of their controlled processes.

For example, to make opcmsgrb use only one memory arena, set the following setting and then re-start the server processes as follows:

```
# ovconfchg -ovrg server -ns opc.opcmsgrb \  
-set _M_ARENA_OPTS 1:128
```

For more information about `_M_ARENA_OPTS` and `_M_SBA_OPTS` see the `malloc(3)` man page.

Type/Unit : string  
Default : ""  
Documented : N/A  
Since Rel. : A.08.24  
Used In : namespace: opc.<process>, e.g.: opc.opcmsgrb  
Search-Keys : ovoareqsdr, memory, HP-UX only

### **\_M\_SBA\_OPTS**

Description : Environment variable for controlling the HP-UX memory allocation mechanism when ovoareqsdr or opcctlm start one of their controlled processes.

See also `_M_ARENA_OPTS` configuration parameter.

For more information about `_M_ARENA_OPTS` and `_M_SBA_OPTS` see the `malloc(3)` man page.

Type/Unit : string  
Default : ""  
Documented : N/A  
Since Rel. : A.08.24  
Used In : namespace: opc.<process>, e.g.: opc.opcmsgrb  
Search-Keys : ovoareqsdr, memory, HP-UX only

#### **dumpfile**

Description : Defines the name of the file reporting which agentless nodes need TCL and which don't. This file needs to be defined if filters for TCL-s will be configured.

Type/Unit : string  
Default : empty  
Documented : Release Notes  
Since Rel. : 09.10.240  
Used In : namespace: tclfilter  
Search-Keys : opcremsyschk, TCL agentless

#### **filterfile**

Description : Defines the name of the file containing patters to exclude the defined agentless nodes from the ones equiring TCL-s. The filter is a combination of what this setting contains as well as what `hostnamefilter` contains.

Type/Unit : string  
Default : empty  
Documented : N/A  
Since Rel. : 09.10.240  
Used In : namespace: tclfilter  
Search-Keys : opcremsyschk, TCL agentless

#### **hostnamefilter**

Description : Defines the patterns to exclude the defined agentless nodes from the ones requiring TCL-s.  
The filter is a combination of what this setting contains as well as what filterfile contains.

Type/Unit : string

Default : empty

Documented : N/A

Since Rel. : 09.10.240

Used In : namespace: tclfilter

Search-Keys : opcremsyschk, TCL agentless

**opr.toposync.dumpData**

Description : Setting to true dumps all data before and after the mapping into XML files in /var/opt/OV/shared/server/tmp/datadump.  
This has a severe performance impact, so this setting should be always set to false in production environments.

Type/Unit : boolean

Default : false

Documented : N/A

Since Rel. : 09.10.200

Used In : namespace: om.svcdiscserver.mapping

Search-Keys : discovery





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Just add your feedback to the email and click send.

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