## **User Guide for Trace**

There are two kinds of command can be used for trace. One is IMM command and the other is trace CLI command. Trace CLI command is recommended to use.

The example in this document is a simple user guide for trace. Please refer to the document in the following link for details. http://calstore.internal.ericsson.com/alexserv?ID=22569&DB=32243en\_lzn7020354\_1\_r1a.alx&FN=1\_1540-APR9010500\_1Uen.A.html

# Trace CLI command summary

tracecc Related Subcommands		
Trace Manager Subcommands	Trace Profile Subcommands	Trace Recording Subcommands
tracecc-manager-listevents	tracecc-profile-activate	tracecc-recording-cancelconvert
tracecc-manager-set	tracecc-profile-cancel	tracecc-recording-convert
tracecc-manager-view	tracecc-profile-create	tracecc-recording-delete
	tracecc-profile-deactivate	tracecc-recording-list
	tracecc-profile-delete	tracecc-recording-view
	tracecc-profile-list	_
	tracecc-profile-set	
	tracecc-profile-view	

# **Trace Collection Steps**

Collecting traces using the Trace CC involves the following activities:

- 1. Perform a List Trace Events operation to identify trace expressions for the applications running in the cluster.
- 2. Create a Trace Profile with the required trace expressions.
- 3. Activate the Trace Profile to start a Trace Recording session.
- 4. Deactivate the Trace Recording when enough data has been collected.
- 5. Convert the trace logs from the binary Common Trace Format (CTF) to readable ASCII.

## Example:

Suggest checking the trace manager attributes with "tracecc-manager-view" and setting proper values for Trace Manager configurable attributes with "tracecc-manager-set" command according to the system.

Run an application program and keep it running during demon period.

./TestApp\_Thread1 5000 np & Here: TestApp\_Thread1 5000 → application program for demon 5000 → 5000 seconds np → no print & → running in the background

### Step 1: List the trace events for the application running in the node.

-sh-3.2# tracecc-manager-listevents "com\_ericsson\_cba\_trace\_testapp\_thread1\_lowtraf:\*" -sh-3.2# cd /home/trace/trace\_events\_list/000212\_222420 -sh-3.2# ls metadata.txt result\_0001.txt -sh-3.2# cat result\_0001.txt com\_ericsson\_cba\_trace\_testapp\_thread1\_lowtraf:OnePerSecA,TRACE\_DEBUG\_PROGRAM(8) LOGLEVEL\_ONLY com\_ericsson\_cba\_trace\_testapp\_thread1\_lowtraf:OnePerSecB,TRACE\_DEBUG\_PROCESS(9) LOGLEVEL\_ONLY com\_ericsson\_cba\_trace\_testapp\_thread1\_lowtraf:TenPerSecA,TRACE\_DEBUG\_MODULE(10) LOGLEVEL\_ONLY com\_ericsson\_cba\_trace\_testapp\_thread1\_lowtraf:TenPerSecB,TRACE\_DEBUG\_UNIT(11) LOGLEVEL\_ONLY

#### **Step 2: Create a Trace Profile with the required trace expressions.**

-sh-3.2# tracecc-profile-create -c NOT\_ENFORCED -d "It is a trace\_demon" -l TRACE\_DEBUG\_MODULE trace\_profile1 -t "com\_ericsson\_cba\_trace\_testapp\_thread1\_lowtraf:\*" or

-sh-3.2# tracec-profile-create -c NOT\_ENFORCED -d "It is a trace\_demon" -l TRACE\_DEBUG\_MODULE trace\_profile1 -f /home/trace/trace\_events\_list/000212\_222420/ result\_0001.txt

Use command "tracecc-profile-set", when you need to modify trace profiles, Use command "tracecc-profile-list" to list all the profiles already created. Check the profile status with "tracecc-profile-view".



## Step 3: Activate the Trace Profile to start a Trace recording session.

-sh-3.2# tracecc-profile-activate trace\_profile1 -sh-3.2# tracecc-profile-view trace\_profile1 consistentLogs : NOT ENFORCED description : It is a trace\_demon latestSessionId :1 logLevelDefault : TRACE\_DEBUG\_MODULE(10) : ACTIVE state traceExpressions : com\_ericsson\_cba\_trace\_testapp\_thread1\_lowtraf:\* \_\_\_\_\_ progress.actionName : activateSession : "" progress.additionalInfo progress.info : Trace activation is complete

progress.percentage: 100progress.result: SUCCESSprogress.resultInfo: Trace activation was completed successfullyprogress.state: FINISHEDprogress.timeActionCompleted: 02/12/00T21:57:35+0000progress.timeOfLastStatusUpdate: 02/12/00T21:57:35+0000

## Step 4: Deactivate the trace session when the trace is collected enough.

```
-sh-3.2# tracecc-profile-deactivate trace_profile1
-sh-3.2# tracecc-profile-view trace_profile1
consistentLogs
                     : NOT_ENFORCED
                    : It is a trace_demon
description
                   :1
latestSessionId
logLevelDefault
                      : TRACE_DEBUG_MODULE(10)
                : INACTIVE
state
                      : com_ericsson_cba_trace_testapp_thread1_lowtraf:*
traceExpressions
progress.actionName
                         : deactivateSession
                        : ""
progress.additionalInfo
progress.info
                   : Trace deactivation is complete
progress.percentage
                        : 100
progress.result
                     : SUCCESS
                      : Trace deactivateSession was completed successfully
progress.resultInfo
progress.state
                     : FINISHED
progress.timeActionCompleted : 02/12/00T21:58:49+0000
progress.timeActionStarted : 02/12/00T21:58:48+0000
progress.timeOfLastStatusUpdate : 02/12/00T21:58:49+0000
```

# **Step 5:** Convert the trace logs from the binary Common Trace Format (CTF) to readable ASCII

Use command "tracecc-recording-list" to list all the trace recordings already generated. Check the recording status with "tracecc-recording-view".

```
-sh-3.2# tracecc-recording-list
trace_profile1_1
-sh-3.2# tracecc-recording-convert trace_profile1_1
-sh-3.2# tracecc-recording-view trace_profile1_1
                 : NoError;
errors
logLevelDefault
                   : TRACE_DEBUG_MODULE(10)
                    : 02/12/00T21:57:35+0000
startTime
traceExpressions
traceProfileLd
                     : com_ericsson_cba_trace_testapp_thread1_lowtraf:*
traceProfileId
                     : trace_profile1
    -----
progress.actionName
                        : convertOutput
progress.additionalInfo
                       : nodeName=All processId=All
progress.info
                    : Convert output successfully done
progress.percentage
                       : 100
                     : SUCCESS
progress.result
progress.resultInfo
                     : Convert output for trace_profile1_1 successfully done
progress.state
                    : FINISHED
progress.timeActionCompleted : 02/12/00T22:04:53+0000
progress.timeActionStarted : 02/12/00T22:04:53+0000
progress.timeOfLastStatusUpdate : ""
```

## Step 6: check converted log

-sh-3.2# vi /home/trace/trace\_profile1\_2/Converted\_logs/Node\_node1.log

 $[21:57:37.776520352] TestApp_Thread1:27526 com_ericsson_cba_trace_testapp_thread1_lowtraf:TenPerSecA: \{ 0 \}, \{ my_Time = "21:57:33", OnePs = 4, TenPs = 9 \}$ 

[21:57:38.220356101] TestApp\_Thread1:27526 com\_ericsson\_cba\_trace\_testapp\_thread1\_lowtraf:OnePerSecB: { 0 }, { my\_Time = "21:57:38" }