

# Debugging

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## FAULT TRACING DIRECT

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Debugging



# 1 Performing Debugging Tasks

Process operations commands provide instruction to the Process Manager (PM).

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## Caution!

Risk of system crash. If more than one process has been stopped, you must restart each process individually, monitoring the SmartEdgerouter and waiting for it to stabilize before trying to restart the stopped process. Contact technical support before stopping and restarting multiple processes.

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## Caution!

Risk of data loss. The `process stop` command causes the specified process to terminate and the services provided by the process to become unavailable until the process is restarted using the `process start` command. To reduce the risk, do not stop a process unless you intend to restart the process immediately.

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This document applies to both the Ericsson SmartEdge® and SM family routers. However, the software that applies to the SM family of systems is a subset of the SmartEdge OS; some of the functionality described in this document may not apply to SM family routers.

For information specific to the SM family chassis, including line cards, refer to the SM family chassis documentation.

For specific information about the differences between the SmartEdge and SM family routers, refer to the Technical Product Description *SM Family of Systems* (part number 5/221 02-CRA 119 1170/1) in the `Product Overview` folder of this Customer Product Information library.

To monitor, administer, or troubleshoot general system processes, perform the appropriate task listed in Table 1 . Enter `show` commands in any mode; enter all other commands in exec mode.



Table 1 System Process Operations Tasks

<b>Task</b>	<b>Root Command</b>
Enable the generation of debug messages for IP read-write lock events.	<i>debug iprlock</i>
Enable the generation of debug messages for process execution descriptor graph (PEDGR) manager events.	<i>debug pedgr</i>
Enable the generation of debug messages for the PM.	<i>debug pm</i>
Enable the generation of debug messages for the RCM.	<i>debug rcm</i>
Enable the generation of debug messages for the shared memory library.	<i>debug shmlib</i>
Enable the generation of debug messages related to transferring crash files out of the SmartEdge router using the File Transfer Protocol (FTP).	<i>debug sysmon ftp</i>
Monitor the current status of IP processes and provide continuous updates to the status.	<i>monitor ip</i>
Monitor the current status of a specified category of processes and provide continuous updates to the status.	<i>monitor process</i>
Disable the generation of debug message types supported by the operating system.	<i>no debug all</i>
Restart a process that has been stopped.	<i>process restart</i>
Set process management parameters.	<i>process set</i>
Instruct the PM to start the specified process.	<i>process start</i>
Stop a specified process.	<i>process stop</i>
Display the debug options that are currently enabled.	<i>show debugging</i>