

Regular Expressions for Allowing and Denying JUNOS Software Configuration Mode Commands

Use extended regular expressions to specify which configuration mode commands are denied or allowed. You specify these regular expressions in the `allow-configuration` and `deny-configuration` statements at the `[edit system login class]` hierarchy level, or by specifying Juniper Networks vendor-specific TACACS+ or RADIUS attributes in your authentication server's configuration. If regular expressions are received during TACACS+ or RADIUS authentication, they merge with any regular expressions configured on the local router.

Table 1 lists common regular expression operators that you can use for allowing or denying commands for configuration mode commands.

Command regular expressions implement the extended (modern) regular expressions, as defined in POSIX 1003.2.

Table 1: Configuration Mode Commands—Common Regular Expression Operators

Operator	Match
	One of two or more terms separated by the pipe. Each term must be a complete standalone expression enclosed in parentheses (), with no spaces between the pipe and the adjacent parentheses. For example, <code>(show system alarms) (show system software)</code> .
^	At the beginning of an expression, used to denote where the command begins, where there might be some ambiguity.
\$	Character at the end of a command. Used to denote a command that must be matched exactly up to that point. For example, <code>allow-commands "show interfaces\$"</code> means that the user can issue the <code>show interfaces</code> command but cannot issue <code>show interfaces detail</code> or <code>show interfaces extensive</code> .
[]	Range of letters or digits. To separate the start and end of a range, use a hyphen (-).
()	A group of commands, indicating a complete, standalone expression to be evaluated; the result is then evaluated as part of the overall expression. Parentheses must always be used in conjunction with pipe operators as explained above.
*	Zero or more terms.
+	One or more terms.
.	Any character except for a space " " .

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