



MAC Algorithm Configuration

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Feature Summary and Revision History

Summary Data

Applicable Product(s) or Functional Area	All
Applicable Platform(s)	<ul style="list-style-type: none">• ASR 5500• VPC-DI• VPC-SI
Feature Default	Disabled - Configuration required
Related Changes in This Release	Not applicable
Related Documentation	<ul style="list-style-type: none">• <i>ASR 5500 System Administration Guide</i>• <i>Command Line Interface Reference</i>• <i>VPC-DI System Administration Guide</i>• <i>VPC-SI System Administration Guide</i>

Revision History



Important

Revision history details are not provided for features introduced before releases 21.2 and N5.1.

Revision Details	Release
First introduced.	21.13

Feature Description

The MAC Algorithm Configuration feature allows to configure or change the priority of MAC algorithms of internal SSHD servers.

A new CLI **MACs** CLI command is introduced in SSH Configuration Mode in support of this feature.

Configuring MAC Algorithms

This section describes how to configure the MAC algorithms.

Use the following configuration to specify the priority of the MAC algorithms.

```
configure
  context context_name
  server sshd
    macs algorithms
  end
```

```
default macs
```

NOTES:

- *algorithms*: Refers to a string of 1 through 511 alphanumeric characters that specifies the algorithms to be used as a single string of comma-separated variables (no spaces) in priority order (left to right) from those listed as follows:
 - HMAC = hash-based message authentication code
 - SHA2 = Secure Hash Algorithm 2
 - SHA1 = Secure Hash Algorithm 1
 - ETM = Encrypt-Then-MAC
 - UMAC = message authentication code based on universal hashing
- The help string and list of algorithms in a Normal build are:


```
hmac-sha2-512-etm@openssh.com, hmac-sha2-256-etm@openssh.com, hmac-sha1-etm@openssh.com, hmac-sha2-512,
hmac-sha2-256, hmac-sha1, umac-128-etm@openssh.com, umac-128@openssh.com, umac-64-etm@openssh.com, umac-64@openssh.com
```
- The help string and list of algorithms in a Trusted build are:


```
hmac-sha2-512-etm@openssh.com, hmac-sha2-256-etm@openssh.com, hmac-sha1-etm@openssh.com, hmac-sha2-512,
hmac-sha2-256, hmac-sha1
```
- The default value string is:


```
hmac-sha2-512-etm@openssh.com, hmac-sha2-256-etm@openssh.com, hmac-sha1-etm@openssh.com, hmac-sha2-512,
hmac-sha2-256, hmac-sha1
```