



## About This Guide

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The following topics explain how to use this guide.

- [What's New in Each Release](#), on page i
- [About Secure Firewall Threat Defense Syslog Messages](#), on page iv
- [Configure the System to Send Syslog Messages](#), on page ix
- [Communications, Services, and Additional Information](#), on page ix

## What's New in Each Release

### Security Event Syslog Messages

Changes to syslog messages for the following event types are described in [History for Security Event Syslog Messages](#):

- Intrusion events
- Connection events
- Security Intelligence events
- File events
- Malware events

### All Other Syslog Messages

This section provides the following new, changed, and deprecated syslog messages for the following Secure Firewall Threat Defense releases. For complete syslog message descriptions, see respective chapters.

- [Table 1: New, Changed, and Deprecated Syslog Message for Version 7.4.1](#)
- [Table 2: New, Changed, and Deprecated Syslog Message for Version 7.4](#)
- [Table 3: New, Changed, and Deprecated Syslog Message for Version 7.3](#)
- [Table 4: New, Changed, and Deprecated Syslog Message for Version 7.2](#)
- [Table 5: New, Changed, and Deprecated Syslog Message for Version 7.1](#)
- [Table 6: New, Changed, and Deprecated Syslog Message for Version 7.0](#)

- [Table 7: New, Changed, and Deprecated Syslog Message for Version 6.7](#)
- [Table 8: New, Changed, and Deprecated Syslog Message for Version 6.6](#)
- [Table 9: New, Changed, and Deprecated Syslog Message for Version 6.5](#)
- [Table 10: New, Changed, and Deprecated Syslog Messages for Version 6.4](#)

**Table 1: New, Changed, and Deprecated Syslog Message for Version 7.4.1**

<b>New Syslog Messages</b>	709015
<b>Changed Syslog Messages (Document)</b>	None
<b>Changed Syslog Messages (Code)</b>	None
<b>Deprecated Syslog Messages</b>	None

**Table 2: New, Changed, and Deprecated Syslog Message for Version 7.4**

<b>New Syslog Messages</b>	870001, 880001
<b>Changed Syslog Messages (Document)</b>	None
<b>Changed Syslog Messages (Code)</b>	302020, 302021
<b>Deprecated Syslog Messages</b>	None

**Table 3: New, Changed, and Deprecated Syslog Message for Version 7.3**

<b>New Syslog Messages</b>	No new syslog messages were added.
<b>Changed Syslog Messages (Document)</b>	None
<b>Changed Syslog Messages (Code)</b>	None
<b>Deprecated Syslog Messages</b>	None

**Table 4: New, Changed, and Deprecated Syslog Message for Version 7.2**

<b>New Syslog Messages</b>	No new syslog messages were added.
<b>Changed Syslog Messages (Document)</b>	None
<b>Changed Syslog Messages (Code)</b>	None
<b>Deprecated Syslog Messages</b>	None

**Table 5: New, Changed, and Deprecated Syslog Message for Version 7.1**

<b>New Syslog Messages</b>	709009, 709010, 709011, 709012, 709013
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<b>Changed Syslog Messages (Document)</b>	None
<b>Changed Syslog Messages (Code)</b>	None
<b>Deprecated Syslog Messages</b>	None

**Table 6: New, Changed, and Deprecated Syslog Message for Version 7.0**

<b>New Syslog Messages</b>	717032, 305021, 305022
<b>Changed Syslog Messages (Document)</b>	717009
<b>Changed Syslog Messages (Code)</b>	None
<b>Deprecated Syslog Messages</b>	None

**Table 7: New, Changed, and Deprecated Syslog Message for Version 6.7**

<b>New Syslog Messages</b>	106029
<b>Changed Syslog Messages (Document)</b>	105042, 105003, 105004, 105043, 305006, 414004
<b>Changed Syslog Messages (Code)</b>	302013, 302014
<b>Deprecated Syslog Messages</b>	None

**Table 8: New, Changed, and Deprecated Syslog Message for Version 6.6**

<b>New Syslog Messages</b>	209006, 324012
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**Table 9: New, Changed, and Deprecated Syslog Message for Version 6.5**

<b>New Syslog Messages</b>	748011, 748012, 302311, 747042, 747043, 747044, 769007, 769009, 852001, 852002
<b>Changed Syslog Messages</b>	302014
<b>Deprecated Syslog Messages</b>	

**Table 10: New, Changed, and Deprecated Syslog Messages for Version 6.4**

<b>New Syslog Messages</b>	Security events: 430004, 430005 Other: 305017, 308003, 308004, 408101, 408102, 409014, 409015, 409016, 409017, 419004, 419005, 419006, 503002, 503003, 503004, 503005, 737038, 737200-737206, 737400-737407, 747042, 747043, 747044, 768003, 768004 815002, 815003, 815004
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<b>Changed Syslog Messages</b>	737001-737019, 737031-737036
<b>Deprecated Syslog Messages</b>	

## All Syslog Messages

**Table 11: Changes to Syslog Messages for Version 6.3**

Timestamp Logging	<p>Beginning with version 6.3, Secure Firewall Threat Defense provides the option to enable timestamp as per RFC 5424 in eventing syslogs. When this option is enabled, all timestamp of syslog messages would be displaying the time as per RFC 5424 format. Following is a sample output with RFC 5424 format:</p> <pre>&lt;166&gt;2018-06-27T12:17:46Z firepower : %FTD-6-110002: Failed to locate egress interface for protocol from src interface :src IP/src port to dest IP/dest port</pre> <p><b>Note</b> The PRI value, &lt;166&gt; in the above example, is the priority value that represents both Facility and Severity of the alert. Syslog messages in RFC5424 format, typically displays PRI. However, in case of management center managed threat defense, PRI value appears in the syslog messages only when you enable logging in EMBLEM format using management center platform settings. For information on how to enable the EMBLEM format, see <a href="#">Cisco Secure Firewall Management Center Administration Guide</a>. For information on PRI, see <a href="#">RFC5424</a>.</p>
Syslog Prefix Format	<p>The threat defense operating system was using parts of the ASA operating system, including the syslog utility. Therefore, threat defense syslog messages were starting with "%ASA" due to this shared utility. Beginning with release 6.3, the threat defense syslog messages will be starting with "%FTD"</p>

# About Secure Firewall Threat Defense Syslog Messages



**Note** Information in this topic does not apply to messages related to security events.

The following table lists the message classes and the ranges of message IDs that are associated with each class. The valid range for message IDs is between 100000 and 999999.



**Note** When a number is skipped in a sequence, the message is no longer in the threat defense device code.

Most of the ISAKMP messages have a common set of prepended objects to help identify the tunnel. These objects precede the descriptive text of a message when available. If the object is not known at the time the message is generated, the specific **heading = value** combination will not be displayed.

The objects will be prepended as follows:

Group = **groupname**, Username = **user**, IP = **IP\_address**,...

Where the Group identifies the tunnel group, the Username is the username from the local database or AAA server, and the IP address is the public IP address of the remote access client or L2L peer.

Typically, a traffic session displays the connection numbers/IDs for each flow in the syslog messages. However, for some of the connections, though the connection ID is incremented, the syslog messages does not display the ID. Thus, you may find missing sequence numbers in the connection IDs of the subsequent messages. For example, during a TCP traffic flow, the syslog messages display the connection IDs as 201, 202, 203, and 204 for each flow. When an ICMP flow begins, though the connection ID is internally incremented to 205 and 206, the syslog messages does not display the numbers. When another TCP flow follows, its connection numbers are now displayed as 207, 208, and so on, giving an impression of skipping sequence.

**Table 12: Syslog Message Classes and Associated Message ID Numbers**

Logging Class	Definition	Syslog Message ID Numbers
<b>auth</b>	User Authentication	109, 113
—	Access Lists	106
—	Application Firewall	415
<b>bridge</b>	Transparent Firewall	110, 220
<b>ca</b>	PKI Certification Authority	717
citrix	Citrix Client	723
—	Clustering	747
—	Card Management	323
<b>config</b>	Command Interface	111, 112, 208, 308
csd	Secure Desktop	724
cts	Cisco TrustSec	776
<b>dap</b>	Dynamic Access Policies	734
eap, eapoudp	EAP or EAPoUDP for Network Admission Control	333, 334
eigrp	EIGRP Routing	336
<b>email</b>	E-mail Proxy	719
—	Environment Monitoring	735
<b>ha</b>	Failover	101, 102, 103, 104, 105, 210, 311, 709, 727
—	Identity-based Firewall	746
ids	Intrusion Detection System	400, 733
—	IKEv2 Toolkit	750, 751, 752

Logging Class	Definition	Syslog Message ID Numbers
<b>ip</b>	IP Stack	209, 215, 313, 317, 408
<b>ipaa</b>	IP Address Assignment	735
<b>ips</b>	Intrusion Protection System	400, 401, 420
—	IPv6	325
—	Block lists, Allow lists, and Graylists	338
—	Licensing	444
mdm-proxy	MDM Proxy	802
nac	Network Admission Control	731, 732
nacpolicy	NAC Policy	731
nacsettings	NAC Settings to apply NAC Policy	732
—	Network Access Point	713
<b>np</b>	Network Processor	319
—	NP SSL	725
<b>ospf</b>	OSPF Routing	318, 409, 503, 613
—	Password Encryption	742
—	Phone Proxy	337
<b>rip</b>	RIP Routing	107, 312
<b>rm</b>	Resource Manager	321
—	Security events (Information in this topic does not apply to these events)	430
—	Smart Call Home	120
<b>session</b>	User Session	106, 108, 201, 202, 204, 302, 303, 304, 305, 314, 405, 406, 407, 500, 502, 607, 608, 609, 616, 620, 703, 710
<b>snmp</b>	SNMP	212
—	ScanSafe	775
ssl	SSL Stack	725
svc	SSL VPN Client	722

Logging Class	Definition	Syslog Message ID Numbers
sys	System	199, 211, 214, 216, 306, 307, 315, 414, 604, 605, 606, 610, 612, 614, 615, 701, 711, 741
—	Threat Detection	733
tre	Transactional Rule Engine	780
—	UC-IME	339
tag-switching	Service Tag Switching	779
vm	VLAN Mapping	730
vpdn	PPTP and L2TP Sessions	213, 403, 603
vpn	IKE and IPsec	316, 320, 402, 404, 501, 602, 702, 713, 714, 715
vpnc	VPN Client	611
vpnfo	VPN Failover	720
vpnlb	VPN Load Balancing	718
—	VXLAN	778
webfo	WebVPN Failover	721
webvpn	WebVPN and AnyConnect Client	716
—	NAT and PAT	305

## Syslog Message Format

Syslog messages are structured as follows:

```
[<PRI>] [Timestamp] [Device-ID] : %FTD-Level-Message_number: Message_text
```

Field descriptions are as follows:

<PRI>	Priority value. When the logging EMBLEM is enabled, this value is displayed in the syslog message. Logging EMBLEM is compatible with UDP and not with TCP.
Timestamp	Date and time of the event is displayed. When logging of timestamps is enabled, and if the timestamp is configured to be in the RFC 5424 format, all timestamp in syslog messages display the time in UTC, as indicated by the RFC 5424 standard. By default, the data plane syslogs that are generated by the Lina engine on the Secure Firewall Threat Defense are in the UTC timezone and not of the local time zone.
Device-ID	The device identifier string that was configured while enabling the logging device-id option through the user interface. If enabled, the device ID does not appear in EMBLEM-formatted syslog messages.

FTD	The syslog message facility code for messages that are generated by the FTD. This value is always <code>FTD</code> .
<i>Level</i>	0 through 7. The level reflects the severity of the condition described by the syslog message—the lower the number, the more severe the condition.
<i>Message_number</i>	A unique six-digit number that identifies the syslog message.
<i>Message_text</i>	A text string that describes the condition. This portion of the syslog message sometimes includes IP addresses, port numbers, or usernames.

All syslog messages that are generated by the device are documented in this guide.

Example of a syslog message with logging EMBLEM, logging timestamp rfc5424, and device-id enabled.

```
<166>2018-06-27T12:17:46Z: %FTD-6-110002: Failed to locate egress interface for protocol
from src interface :src IP/src port to dest IP/dest port
```

Example of a syslog message with logging timestamp rfc5424 and device-id enabled.

```
2018-06-27T12:17:46Z ftd : %FTD-6-110002: Failed to locate egress interface for protocol
from src interface :src IP/src port to dest IP/dest port
```

## Handling Connection Event Syslog Alerting

The Secure Firewall Threat Defense (formerly known as, Firepower Threat Defense (FTD)) versions 7.0.5 and later, and 7.2.x and later, generate syslog messages with a colon (:) between the *Timestamp* or *Device-ID* (if present) and the *%FTD-Level-Message\_number* string. The other Secure Firewall Threat Defense versions do not include such colon (:) character. Therefore, if you use filtering rules on the syslog server or the SIEM application to identify syslog messages from devices running the Secure Firewall Threat Defense software, make sure that the match criteria accounts for the presence (versions 7.0.5 and later, and 7.2.x and later) or absence (earlier versions) of the colon (:) character, so that messages are not missed.

For example, in the following syslog message from the Threat Defense Virtual device, a space and colon is used to separate the hostname from the rest of the message:

```
Apr 10 18:52:47 labuser-ftdv : %FTD-6-305012: Teardown dynamic UDP translation from
inside:10.51.100.1/54453 to outside:10.0.2.3/54453 duration 0:00:00
```

If your regular expression to match syslog messages from the threat defense devices look like this (in this example, only the colon character portion of the regular expression is displayed):

```
^... .. :... [-[:alpha:]]+[[[:space:]]]*%FTD
```

Change your regular expression to have the colon character (:) after the hostname as optional in the messages, like this:

```
^... .. :... [-[:alpha:]]+[[[:space:]]](?:[[[:space:]]])%FTD
```

With this recommended regular expression, regardless of the presence or absence of colon (:) in the syslog messages, the filtering rules will work as expected.



**Note**

- The `(?:[:space:])*` addition to the regular expression would make the regular expression match 0 or 1 colon (`:`) character followed by zero or more spaces.
- The recommended workaround must be implemented on the syslog server or the SIEM that the threat defense devices are sending syslog messages to.
- Alternatively, you can simplify the regular expression to only match `%FTD-[:digit:]`. This will also match regardless of the presence or absence of a colon (`:`) after the *Timestamp* or *Device-ID* (if present).

## Configure the System to Send Syslog Messages

A syslog is generated as soon as a triggering event occurs. The maximum rate at which the threat defense can send the syslog messages depends on the level of syslog and the available CPU resources. The number of events the management center can store depends on its model. To improve system performance, you can configure the event generation limits, threshold limits, and you can even disable storage for some event types. You can also log events to an external syslog, or SNMP trap server, or other external tools. For more information about these system logging configurations, see the [Cisco Secure Firewall Management Center Device Configuration Guide](#) or [Cisco Secure Firewall Device Manager Configuration Guide](#) for your release.

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