



System Message Overview

This guide describes system messages for the Catalyst 2950 switch. During operation, the system software sends these messages to the console (and, optionally, to a logging server on another system). Not all system messages indicate problems with your system. Some messages are purely informational, whereas others can help diagnose problems with communications lines, internal hardware, or the system software. This guide also includes error messages that appear when the system fails.

This chapter contains these sections:

- [How to Read System Messages, page 1-1](#)
- [Error Message Traceback Reports, page 1-3](#)

How to Read System Messages

System messages begin with a percent sign (%) and are structured as follows:

%FACILITY-SEVERITY-MNEMONIC: Message-text

- FACILITY is a code consisting of two or more uppercase letters that show the facility to which the message refers. A facility can be a hardware device, a protocol, or a module of the system software. [Table 1-1](#) lists the system facility codes.

Table 1-1 Facility Codes

Facility Code	Description	Location
CMP	Cluster Membership Protocol	“CMP Messages” section on page 2-1
DOT1X_MOD	802.1X authentication	“DOT1X_MOD Messages” section on page 2-2
DTP	Dynamic Trunking Protocol	“DTP Messages” section on page 2-2
EC	EtherChannel	“EC Messages” section on page 2-4
ENVIRONMENT	Environment	“ENVIRONMENT Messages” section on page 2-5
ETHCNTR	Ethernet controller	“ETHCNTR Messages” section on page 2-5

Table 1-1 Facility Codes (continued)

Facility Code	Description	Location
GBIC	Gigabit Interface Converter (GBIC) module identification and validation	“GBIC Messages” section on page 2-6
GBIC_1000BASET	1000BASE-T GBIC module	“GBIC Messages” section on page 2-6
GBIC_SECURITY	GBIC module security	“GBIC_SECURITY Messages” section on page 2-9
GIGASTACK	GigaStack GBIC module	“GIGASTACK Messages” section on page 2-10
HWMATM_MOD	Hardware MAC address table manager	“HWMATM_MOD Messages” section on page 2-11
LRE_CPE	Long-Reach Ethernet (LRE) customer premises equipment (CPE)	LRE_CPE Messages, page 2-11
LRE_LINK	LRE link	LRE_LINK Messages, page 2-14
PLATFORM_CAT2950	Application-specific integrated circuit (ASIC)	“PLATFORM_CAT2950 Messages” section on page 2-15
PLATFORM_CATALYST2950	Low-level platform messages	“PLATFORM_CATALYST2950 Messages” section on page 2-20
PM	Port manager	“PM Messages” section on page 2-20
SPAN	Switched Port Analyzer (SPAN)	“SPAN Messages” section on page 2-25
SPANTREE	Spanning tree	“SPANTREE Messages” section on page 2-26
SPANTREE_FAST	Spanning-tree fast convergence	“SPANTREE_FAST Messages” section on page 2-31
SPANTREE_VLAN_SW	Spanning-tree VLAN switch	“SPANTREE_VLAN_SWITCH Messages” section on page 2-31
STORM_CONTROL	Storm control	“STORM_CONTROL Messages” section on page 2-31
SW_VLAN	VLAN manager	“SW_VLAN Messages” section on page 2-32
UDLD	UniDirectional Link Detection (UDLD)	“UDLD Messages” section on page 2-36
UFAST_MCAST_SW	UplinkFast multicast software	“UFAST_MCAST_SW Messages” section on page 2-38

- SEVERITY is a single-digit code from 0 to 7 that reflects the severity of the condition. The lower the number, the more serious the situation. Table 1-2 lists the message severity levels.
- MNEMONIC is a code that uniquely identifies the message.

Table 1-2 Message Severity Levels

Severity Level	Description
0 – emergency	System is unusable.
1 – alert	Immediate action required.
2 – critical	Critical condition.
3 – error	Error condition.
4 – warning	Warning condition.
5 – notification	Normal but significant condition.
6 – informational	Informational message only.
7 – debugging	Message that appears during debugging only.

- Message-text is a text string describing the condition. This portion of the message sometimes contains detailed information about the event, including terminal port numbers, network addresses, or addresses that correspond to locations in the system memory address space. Because the information in these variable fields changes from message to message, it is represented here by short strings enclosed in square brackets ([]). A decimal number, for example, is represented as [dec]. [Table 1-3](#) lists the variable fields in messages.

Table 1-3 Representation of Variable Fields in Messages

Representation	Type of Information
[dec]	Decimal integer
[char]	Single character
[chars]	Character string
[enet]	Ethernet address (for example, 0000.FEED.00C0)
[hex]	Hexadecimal integer
[inet]	Internet address

This is a sample system message:

```
%EC-5-UNBUNDLE:Interface Gi0/9 left the port-channel Po2
```

The messages in [Chapter 2, “Message and Recovery Procedures,”](#) are described in alphabetical order by facility code with the most severe (lowest number) errors described first.

Error Message Traceback Reports

Some messages describe internal errors and contain traceback information. This information is very important and should be included when you report a problem to your technical support representative.

This sample message includes traceback information:

```
-Process= "Exec", level= 0, pid= 17
-Traceback= 1A82 1AB4 6378 A072 1054 1860
```

