



## Embedded Event Manager 2.2

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Embedded Event Manager (EEM) is a flexible, policy-driven framework that supports in-box monitoring of different system components with the help of software agents known as event detectors. EEM 2.2 introduces the enhanced object tracking, resource, and redundancy framework (RF) event detectors. The enhanced object tracking event detector publishes an event when the tracked object changes. Enhanced object tracking provides complete separation between the objects to be tracked and the action to be taken by a client when a tracked object changes. The resource event detector publishes an event when the Embedded Resource Manager (ERM) reports an event for the specified policy. The RF event detector publishes an event when one or more RF events occur during synchronization in a dual Route Processor (RP) system. The RF event detector can also detect an event when a dual RP system continuously switches from one RP to another RP (referred to as a ping-pong situation). EEM 2.2 also introduces the following actions:

- Reading the state of a tracked object
- Setting the state of a tracked object

### Configuration Information

Configuration information is included in the “Embedded Event Manager Overview” module in the “Embedded Event Manager” part of the *Cisco IOS Network Management Configuration Guide*, Release 12.4T, at the following URL:

[http://www.cisco.com/univercd/cc/td/doc/product/software/ios124/124tcg/tnm\\_c/eem/t\\_eemo.htm](http://www.cisco.com/univercd/cc/td/doc/product/software/ios124/124tcg/tnm_c/eem/t_eemo.htm)

The following sections provide information about this feature:

- Embedded Event Manager 2.2
- Event Detectors
- Embedded Event Manager Actions
- Embedded Event Manager Environment Variables
- Embedded Event Manager Policy Creation

Configuration information is also included in the “Writing Embedded Event Manager Policies Using the Cisco IOS CLI” module in the “Embedded Event Manager” part of the *Cisco IOS Network Management Configuration Guide*, Release 12.4T, at the following URL:

[http://www.cisco.com/univercd/cc/td/doc/product/software/ios124/124tcg/tnm\\_c/eem/t\\_eemc.htm](http://www.cisco.com/univercd/cc/td/doc/product/software/ios124/124tcg/tnm_c/eem/t_eemc.htm)



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The following sections provide information about this feature:

- Embedded Event Manager Policies
- EEM Event Detectors Available by Cisco IOS Release
- EEM Actions Available by Cisco IOS Release
- Configuring and Tracking a Stub Object Using Embedded Event Manager
- Configuring and Tracking a Stub Object Using Embedded Event Manager: Example

Configuration information is also included in the “Writing Embedded Event Manager Policies Using Tcl” module in the “Embedded Event Manager” part of the *Cisco IOS Network Management Configuration Guide*, Release 12.4T, at the following URL:

[http://www.cisco.com/univercd/cc/td/doc/product/software/ios124/124tcg/tnm\\_c/eem/t\\_eemt.htm](http://www.cisco.com/univercd/cc/td/doc/product/software/ios124/124tcg/tnm_c/eem/t_eemt.htm)

The following sections provide information about this feature:

- EEM Event Detectors Available by Cisco IOS Release
- EEM Actions Available by Cisco IOS Release
- Modifying the Sample EEM Policies
- EEM Policy Tcl Command Extension Reference

For a complete list of features included in the “Embedded Event Manager Overview,” the “Writing Embedded Event Manager Policies Using the Cisco IOS CLI,” and the “Writing Embedded Event Manager Policies Using Tcl” modules, see the Feature Information Table located toward the end of the modules.

#### **Command Reference Information**

Command reference information is included in the *Cisco IOS Network Management Command Reference*, Release 12.2SR, at the following URL:

[http://www.cisco.com/univercd/cc/td/doc/product/software/ios122sr/cr/srnm\\_r/index.htm](http://www.cisco.com/univercd/cc/td/doc/product/software/ios122sr/cr/srnm_r/index.htm)

#### **New or Modified Commands**

The following commands are new or modified for this feature:

- **action track read**
- **action track set**
- **default-state**
- **event resource**
- **event rf**
- **event track**
- **show track**
- **track stub**

#### **List of All Release 12.2SR Commands**

An alphabetical list of all Cisco IOS Release 12.2SR commands is in the *Cisco IOS Master Commands List*, Release 12.2SR, at the following URL:

<http://www.cisco.com/univercd/cc/td/doc/product/software/ios122sr/122srmdx/122sridx.htm>

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