



CHAPTER 6

HA Alarms

Revised: 1/25/11, OL-23908-01

This chapter contains a list of the alarms for the Home Agent (HA) that the Cisco Mobile Wireless Transport Manager 6.1.5 supports.

Table 6-1 *HA Alarms*

Name	Source	Type	Auto Clear	Severity	Message Text
AddressesInUsePercentThreshold	Poll	Alarm	Yes	Critical	\$NodeDisplayName - For IP local pool \$cIpLocalPoolName \$AddressesInUsePercent% of the addresses are in use. The total number of addresses is \$TotalAddressesInPool.
	Poll	Alarm	Yes	Major	\$NodeDisplayName - For IP local pool \$cIpLocalPoolName \$AddressesInUsePercent% of the addresses are in use. The total number of addresses is \$TotalAddressesInPool.
	Poll	Alarm	Yes	Warning	\$NodeDisplayName - For IP local pool \$cIpLocalPoolName \$AddressesInUsePercent% of the addresses are in use. The total number of addresses is \$TotalAddressesInPool.
	Poll	Alarm	Yes	Normal	\$NodeDisplayName - For IP local pool \$cIpLocalPoolName \$AddressesInUsePercent% of the addresses are in use. The total number of addresses is \$TotalAddressesInPool.

Table 6-1 HA Alarms (continued)

Name	Source	Type	Auto Clear	Severity	Message Text
IPLocalPoolThreshold	Trap	Event	No	Informational	\$NodeDisplayName - IP local pool threshold exceeded. Used addresses = \$cIpLocalPoolStatInUseAddr. Available addresses = \$cIpLocalPoolStatFreeAddr .
	Trap	Event	No	Informational	\$NodeDisplayName - IP local pool threshold abated. Used addresses = \$cIpLocalPoolStatInUseAddr. Available addresses = \$cIpLocalPoolStatFreeAddr.
	Trap	Event	No	Informational	\$NodeDisplayName - IP local pool threshold exceeded. Used addresses = \$cIpLocalPoolStatInUseAddr. Available addresses = \$cIpLocalPoolStatFreeAddr.
cmiHaMaxBindingsNotif	Trap	Event	No	Major	\$NodeDisplayName - Homeagent has reached the maximum number of bindings. Current bindings: \$cmiHaRegTotalMobilityBindings / Max bindings: \$cmiHaMaximumBindings
cmiHaMnRegReqFailed	Trap	Event	No	Informational	\$NodeDisplayName - Registration for MN \$cmiNtRegCOA/\$cmiNtRegHomeAddress/\$cmiNtRegNAI failed. Reason: \$cmiNtRegDeniedCode[1]
HaMobilityBindings	Poll	Alarm	Yes	Warning	\$NodeDisplayName - Current attached mobile devices: \$cmiHaRegTotalMobilityBindings. Max Allowed: \$cmiHaMaximumBindings. Utilization \$HaMobilityBindingsPercent%.
	Poll	Alarm	Yes	Major	\$NodeDisplayName - Current attached mobile devices: \$cmiHaRegTotalMobilityBindings. Max Allowed: \$cmiHaMaximumBindings. Utilization \$HaMobilityBindingsPercent%.
	Poll	Alarm	Yes	Critical	\$NodeDisplayName - Current attached mobile devices: \$cmiHaRegTotalMobilityBindings. Max Allowed: \$cmiHaMaximumBindings. Utilization \$HaMobilityBindingsPercent%.
	Poll	Alarm	Yes	Normal	\$NodeDisplayName - Current attached mobile devices: \$cmiHaRegTotalMobilityBindings. Max Allowed: \$cmiHaMaximumBindings. Utilization \$HaMobilityBindingsPercent%.
mipAuthFailure	Trap	Alarm	No	Warning	\$NodeDisplayName - A mobile authentication request failed. Reason: \$mipSecRecentViolationReason[1]. Violator: \$mipSecViolatorAddress.

Table 6-1 HA Alarms (continued)

Name	Source	Type	Auto Clear	Severity	Message Text
Provision Request	User Action	Event	No	Informational	\$NodeDisplayName - Provision request succeeded. \$UserName requested to \$Operation a \$NEType on \$FQDN.
	User Action	Event	No	Informational	\$NodeDisplayName - Provision request failed. \$UserName requested to \$Operation a \$NEType on \$FQDN. Error message: \$ErrorMessage.
RadiusServerRetrans	Trap	Alarm	Yes	Warning	\$NodeDisplayName - Radius Server \$crRadiusServerAddr/\$crRadiusServerAuthPort - The current number of server retransmissions are greater than or equal to the high threshold \$crRadiusServerRetransThldHi.
	Trap	Alarm	Yes	Normal	\$NodeDisplayName - Radius Server \$crRadiusServerAddr/\$crRadiusServerAuthPort - The current number of server retransmissions are less than or equal to the low threshold \$crRadiusServerRetransThldNorm.
RadiusServerRTT	Trap	Alarm	Yes	Warning	\$NodeDisplayName - Radius Server \$crRadiusServerAddr/\$crRadiusServerAuthPort - The current server round-trip time is greater than or equal to the high threshold \$crRadiusServerRTTThldHi.
	Trap	Alarm	Yes	Normal	\$NodeDisplayName - Radius Server \$crRadiusServerAddr/\$crRadiusServerAuthPort - The current server round-trip time is less than or equal to the low threshold \$crRadiusServerRTTThldNorm.

Table 6-1 HA Alarms (continued)

Name	Source	Type	Auto Clear	Severity	Message Text
SlbDfpCongestionChange	Trap	Alarm	Yes	Normal	\$NodeDisplayName - The SLB DFP value \$slbcProcessorDfpValDfpValue is above the abate threshold \$slbcDfpCongestionAbateThreshold. The system is not congested.
	Trap	Alarm	Yes	Major	\$NodeDisplayName - The SLB DFP value \$slbcProcessorDfpValDfpValue is below the onset threshold \$slbcDfpCongestionOnsetThreshold. The system is congested. Congestion action: \$slbcDfpCongestionThresholdType
	Poll	Alarm	Yes	Normal	\$NodeDisplayName - The SLB DFP value \$slbcProcessorDfpValDfpValue is above the abate threshold \$slbcDfpCongestionAbateThreshold. The system is not congested.
	Poll	Alarm	Yes	Major	\$NodeDisplayName - The SLB DFP value \$slbcProcessorDfpValDfpValue is below the onset threshold \$slbcDfpCongestionOnsetThreshold. The system is congested. Congestion action: \$slbcDfpCongestionThresholdType
SlbVirtualServerStateChange	Trap	Alarm	Yes	Major	\$NodeDisplayName -- SLB Virtual Server \$slbVirtualServerState_slbEntity:\$slbVirtualServerState_slbVirtualServerName -- This virtual server is not active and is not affecting client traffic.
SlbVirtualServerStateChange	Trap	Alarm	Yes	Normal	\$NodeDisplayName -- SLB Virtual Server \$slbVirtualServerState_slbEntity:\$slbVirtualServerState_slbVirtualServerName -- This virtual server is active and is load-balancing client traffic to available real servers.
SlbVirtualServerStateChange	Trap	Alarm	Yes	Warning	\$NodeDisplayName -- SLB Virtual Server \$slbVirtualServerState_slbEntity:\$slbVirtualServerState_slbVirtualServerName -- This virtual server is in standby mode and is acting as a backup for a virtual server on another SLB device.
SlbVirtualServerStateChange	Trap	Alarm	Yes	Warning	\$NodeDisplayName -- SLB Virtual Server \$slbVirtualServerState_slbEntity:\$slbVirtualServerState_slbVirtualServerName -- The real server associated with this redirect virtual server is not operational.

Table 6-1 HA Alarms (continued)

Name	Source	Type	Auto Clear	Severity	Message Text
SlbVirtualServerStateChange	Trap	Alarm	Yes	Warning	\$NodeDisplayName -- SLB Virtual Server \$slbVirtualServerState_slbEntity:\$slbVirtualServerState_slbVirtualServerName -- The real server associated with this virtual server is not operational and this virtual server is in standby state.
SlbVirtualServerStateChange	Trap	Alarm	Yes	Warning	\$NodeDisplayName -- SLB Virtual Server \$slbVirtualServerState_slbEntity:\$slbVirtualServerState_slbVirtualServerName -- The real server associated with this virtual server is being tested.
SlbVirtualServerStateChange	Trap	Alarm	Yes	Warning	\$NodeDisplayName -- SLB Virtual Server \$slbVirtualServerState_slbEntity:\$slbVirtualServerState_slbVirtualServerName -- This virtual server is not enabled because it does not have enough memory to hold the configured matching policy information.
SlbVirtualServerStateChange	Poll	Alarm	Yes	Major	\$NodeDisplayName -- SLB Virtual Server \$slbEntity:\$slbVirtualServerName -- This virtual server is not active and is not affecting client traffic.
SlbVirtualServerStateChange	Poll	Alarm	Yes	Normal	\$NodeDisplayName -- SLB Virtual Server \$slbEntity:\$slbVirtualServerName -- This virtual server is active and is load-balancing client traffic to available real servers.
SlbVirtualServerStateChange	Poll	Alarm	Yes	Warning	\$NodeDisplayName -- SLB Virtual Server \$slbEntity:\$slbVirtualServerName -- This virtual server is in standby mode and is acting as a backup for a virtual server on another SLB device.
SlbVirtualServerStateChange	Poll	Alarm	Yes	Warning	\$NodeDisplayName -- SLB Virtual Server \$slbEntity:\$slbVirtualServerName -- The real server associated with this redirect virtual server is not operational.
SlbVirtualServerStateChange	Poll	Alarm	Yes	Warning	\$NodeDisplayName -- SLB Virtual Server \$slbEntity:\$slbVirtualServerName --The real server associated with this virtual server is not operational and this virtual server is in standby state.
SlbVirtualServerStateChange	Poll	Alarm	Yes	Warning	\$NodeDisplayName -- SLB Virtual Server \$slbEntity:\$slbVirtualServerName -- The real server associated with this virtual server is being tested.

Table 6-1 HA Alarms (continued)

Name	Source	Type	Auto Clear	Severity	Message Text
SlbVirtualServerStateChange	Poll	Alarm	Yes	Warning	\$NodeDisplayName -- SLB Virtual Server \$slbEntity:\$slbVirtualServerName -- This virtual server is not enabled because it does not have enough memory to hold the configured matching policy information.
SlbRealServerStateChange	Trap	Alarm	Yes	Major	\$NodeDisplayName -- SLB Real Server \$slbRealState_slbEntity:\$slbRealState_slbRealServerFarmName:\$slbRealState_slbRealIpAddress:\$slbRealState_slbRealPort -- This real server is out of service and is not in use as a destination for client connections.
SlbRealServerStateChange	Trap	Alarm	Yes	Normal	\$NodeDisplayName -- SLB Real Server \$slbRealState_slbEntity:\$slbRealState_slbRealServerFarmName:\$slbRealState_slbRealIpAddress:\$slbRealState_slbRealPort -- This real server is in service and is a destination for SLB client connections.
SlbRealServerStateChange	Trap	Alarm	Yes	Major	\$NodeDisplayName -- SLB Real Server \$slbRealState_slbEntity:\$slbRealState_slbRealServerFarmName:\$slbRealState_slbRealIpAddress:\$slbRealState_slbRealPort -- This real server has failed.
SlbRealServerStateChange	Trap	Alarm	Yes	Warning	\$NodeDisplayName -- SLB Real Server \$slbRealState_slbEntity:\$slbRealState_slbRealServerFarmName:\$slbRealState_slbRealIpAddress:\$slbRealState_slbRealPort -- This server has received a test probe from the SLB.
SlbRealServerStateChange	Trap	Alarm	Yes	Warning	\$NodeDisplayName -- SLB Real Server \$slbRealState_slbEntity:\$slbRealState_slbRealServerFarmName:\$slbRealState_slbRealIpAddress:\$slbRealState_slbRealPort -- This server has failed and been given a test connection.
SlbRealServerStateChange	Trap	Alarm	Yes	Warning	\$NodeDisplayName -- SLB Real Server \$slbRealState_slbEntity:\$slbRealState_slbRealServerFarmName:\$slbRealState_slbRealIpAddress:\$slbRealState_slbRealPort -- This real server has reached its maximum number of connections.
SlbRealServerStateChange	Trap	Alarm	Yes	Warning	\$NodeDisplayName -- SLB Real Server \$slbRealState_slbEntity:\$slbRealState_slbRealServerFarmName:\$slbRealState_slbRealIpAddress:\$slbRealState_slbRealPort -- This real server has reached its maximum number of clients.

Table 6-1 HA Alarms (continued)

Name	Source	Type	Auto Clear	Severity	Message Text
SlbRealServerStateChange	Trap	Alarm	Yes	Warning	\$NodeDisplayName -- SLB Real Server \$slbRealState_slbEntity:\$slbRealState_slbRealServerFarmName:\$slbRealState_slbRealIpAddress:\$slbRealState_slbRealPort -- DFP has lowered the weight of this server to throttle level, so that no new connections will be assigned to it until DFP raises its weight.
SlbRealServerStateChange	Trap	Alarm	Yes	Warning	\$NodeDisplayName -- SLB Real Server \$slbRealState_slbEntity:\$slbRealState_slbRealServerFarmName:\$slbRealState_slbRealIpAddress:\$slbRealState_slbRealPort -- The probe to this server has failed. No new connections will be assigned to this server until a probe to this server succeeds.
SlbRealServerStateChange	Trap	Alarm	Yes	Warning	\$NodeDisplayName -- SLB Real Server \$slbRealState_slbEntity:\$slbRealState_slbRealServerFarmName:\$slbRealState_slbRealIpAddress:\$slbRealState_slbRealPort -- This server has received a test probe from the SLB.
SlbRealServerStateChange	Trap	Alarm	Yes	Warning	\$NodeDisplayName -- SLB Real Server \$slbRealState_slbEntity:\$slbRealState_slbRealServerFarmName:\$slbRealState_slbRealIpAddress:\$slbRealState_slbRealPort -- This real server is ready to go operational, but is waiting for the associated virtual server to be in service.
SlbRealServerStateChange	Trap	Alarm	Yes	Warning	\$NodeDisplayName -- SLB Real Server \$slbRealState_slbEntity:\$slbRealState_slbRealServerFarmName:\$slbRealState_slbRealIpAddress:\$slbRealState_slbRealPort -- This server is ready to be tested. This state is applicable only when the server is used for http redirect load balancing.
SlbRealServerStateChange	Trap	Alarm	Yes	Warning	\$NodeDisplayName -- SLB Real Server \$slbRealState_slbEntity:\$slbRealState_slbRealServerFarmName:\$slbRealState_slbRealIpAddress:\$slbRealState_slbRealPort -- This real server has failed the inband health probe agent.

Table 6-1 HA Alarms (continued)

Name	Source	Type	Auto Clear	Severity	Message Text
SlbRealServerStateChange	Trap	Alarm	Yes	Warning	\$NodeDisplayName -- SLB Real Server \$slbRealState_slbEntity:\$slbRealState_slbRealServerFarmName:\$slbRealState_slbRealIpAddress:\$slbRealState_slbRealPort -- This server has been disabled because it returned an HTTP code that matched a configured value.
SlbRealServerStateChange	Poll	Alarm	Yes	Major	\$NodeDisplayName -- SLB Real Server \$slbEntity:\$slbRealServerFarmName:\$slbRealIpAddress:\$slbRealPort -- This real server is out of service and is not in use as a destination for client connections.
SlbRealServerStateChange	Poll	Alarm	Yes	Normal	\$NodeDisplayName -- SLB Real Server \$slbEntity:\$slbRealServerFarmName:\$slbRealIpAddress:\$slbRealPort -- This real server is in service and is a destination for SLB client connections.
SlbRealServerStateChange	Poll	Alarm	Yes	Major	\$NodeDisplayName -- SLB Real Server \$slbEntity:\$slbRealServerFarmName:\$slbRealIpAddress:\$slbRealPort -- This real server has failed.
SlbRealServerStateChange	Poll	Alarm	Yes	Warning	\$NodeDisplayName -- SLB Real Server \$slbEntity:\$slbRealServerFarmName:\$slbRealIpAddress:\$slbRealPort -- This server has received a test probe from the SLB.
SlbRealServerStateChange	Poll	Alarm	Yes	Warning	\$NodeDisplayName -- SLB Real Server \$slbEntity:\$slbRealServerFarmName:\$slbRealIpAddress:\$slbRealPort -- This server has failed and been given a test connection.
SlbRealServerStateChange	Poll	Alarm	Yes	Warning	\$NodeDisplayName -- SLB Real Server \$slbEntity:\$slbRealServerFarmName:\$slbRealIpAddress:\$slbRealPort -- This real server has reached its maximum number of connections.
SlbRealServerStateChange	Poll	Alarm	Yes	Warning	\$NodeDisplayName -- SLB Real Server \$slbEntity:\$slbRealServerFarmName:\$slbRealIpAddress:\$slbRealPort -- This real server has reached its maximum number of clients.
SlbRealServerStateChange	Poll	Alarm	Yes	Warning	\$NodeDisplayName -- SLB Real Server \$slbEntity:\$slbRealServerFarmName:\$slbRealIpAddress:\$slbRealPort -- DFP has lowered the weight of this server to throttle level, so that no new connections will be assigned to it until DFP raises its weight.

Table 6-1 HA Alarms (continued)

Name	Source	Type	Auto Clear	Severity	Message Text
SlbRealServerStateChange	Poll	Alarm	Yes	Warning	\$NodeDisplayName -- SLB Real Server \$slbEntity:\$slbRealServerFarmName:\$slbRealIpAddress:\$slbRealPort -- The probe to this server has failed. No new connections will be assigned to this server until a probe to this server succeeds.
SlbRealServerStateChange	Poll	Alarm	Yes	Warning	\$NodeDisplayName -- SLB Real Server \$slbEntity:\$slbRealServerFarmName:\$slbRealIpAddress:\$slbRealPort -- This server has received a test probe from the SLB.
SlbRealServerStateChange	Poll	Alarm	Yes	Warning	\$NodeDisplayName -- SLB Real Server \$slbEntity:\$slbRealServerFarmName:\$slbRealIpAddress:\$slbRealPort -- This real server is ready to go operational, but is waiting for the associated virtual server to be in service.
SlbRealServerStateChange	Poll	Alarm	Yes	Warning	\$NodeDisplayName -- SLB Real Server \$slbEntity:\$slbRealServerFarmName:\$slbRealIpAddress:\$slbRealPort -- This server is ready to be tested. This state is applicable only when the server is used for http redirect load balancing.
SlbRealServerStateChange	Poll	Alarm	Yes	Warning	\$NodeDisplayName -- SLB Real Server \$slbEntity:\$slbRealServerFarmName:\$slbRealIpAddress:\$slbRealPort -- This real server has failed the inband health probe agent.
SlbRealServerStateChange	Poll	Alarm	Yes	Warning	\$NodeDisplayName -- SLB Real Server \$slbEntity:\$slbRealServerFarmName:\$slbRealIpAddress:\$slbRealPort -- This server has been disabled because it returned an HTTP code that matched a configured value.
SlbFaultToleranceStateChange	Trap	Alarm	Yes	Major	\$NodeDisplayName -- SLB Entity: \$cslbxFtState_slbEntity -- SLB fault tolerance is not configured.
SlbFaultToleranceStateChange	Trap	Alarm	Yes	Warning	\$NodeDisplayName -- SLB Entity: \$cslbxFtState_slbEntity -- SLB fault tolerance is initializing.
SlbFaultToleranceStateChange	Trap	Alarm	Yes	Normal	\$NodeDisplayName -- SLB Entity: \$cslbxFtState_slbEntity -- SLB fault tolerance is active.
SlbFaultToleranceStateChange	Trap	Alarm	Yes	Major	\$NodeDisplayName -- SLB Entity: \$cslbxFtState_slbEntity -- SLB fault tolerance is in standby mode.

Table 6-1 HA Alarms (continued)

Name	Source	Type	Auto Clear	Severity	Message Text
SlbFaultToleranceStateChange	Poll	Alarm	Yes	Major	\$NodeDisplayName -- SLB Entity: \$slbEntity -- SLB fault tolerance is not configured.
SlbFaultToleranceStateChange	Poll	Alarm	Yes	Warning	\$NodeDisplayName - SLB Entity: \$slbEntity - SLB fault tolerance is initializing.
SlbFaultToleranceStateChange	Poll	Alarm	Yes	Normal	\$NodeDisplayName - SLB Entity: \$slbEntity - SLB fault tolerance is active.
SlbFaultToleranceStateChange	Poll	Alarm	Yes	Major	\$NodeDisplayName - SLB Entity: \$slbEntity - SLB fault tolerance is in standby mode.