

CGR 1000 の WANMon モジュールを解決し、確認して下さい

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概要

この資料 describes は Tool Command Language (TCL) スクリプトを解決し確認する方法を tm_wanmon.tcl を Cisco IOS1000 シリーズによって接続されたグリッド ルータ (CGR) のための IOSイメージで組み込まれて呼出しました。このスクリプトは WAN インターフェイスのための Wide Area Network (WAN) モニタリング ソフトウェアとして、有効にされたとき、機能し、WAN リンクから回復するか、または失敗をトンネル伝送するためにますます嵌入的な操作を行います。

WANMON がルータで有効になるとき、スクリプトは tmpsys に得られます: /eem_policy/ ディレクトリおよびスクリプトはこのコマンドの使用と表示することができます; **Router#more tmpsys: eem_policy/tm_wanmon.tcl.**

前提条件

要件

Cisco はこの documentattion で説明されているように TCL スクリプトをイネーブルに設定することを推奨します

; http://www.cisco.com/c/en/us/td/docs/routers/connectedgrid/cgr1000/ios/software/15_4_1_cg/WANMon.html。

最小 ソフトウェア: Cisco IOS Release 15.4(1)CG。

使用するコンポーネント

この文書に記載されている情報は CGR1120/CGR1240 に基づいています。

このドキュメントの情報は、特定のラボ環境にあるデバイスに基づいて作成されたものです。このドキュメントで使用するすべてのデバイスは、クリアな (デフォルト) 設定で作業を開始して

います。ネットワークが稼働中の場合は、コマンドが及ぼす潜在的な影響を十分に理解しておく必要があります。

Methodoloy を解決して下さい

WANMON が設定され、CGR で動作するとき、スクリプトのためのデバッグはデバイス・コンフィギュレーションにこの設定を追加するとき有効に することができます:

```
Router(config)#event manager environment wanmon_debug all
```

スクリプトを確認して下さい

```
Router(config)#event manager policy tm_wanmon.tcl authorization bypass
```

```
Router(config)#event manager environment wanmon_if_list1 {GigabitEthernet2/1 {recovery {5 25} {90 180} {600 100}} }
```

```
Router(config)#event manager environment wanmon_debug all
```

```
*Aug 8 21:24:14.555: %HA_EM-6-LOG: tm_wanmon.tcl: Command: enable <----- WANMON is orienting  
itself to privileged exec mode by sending the 'enable' command to IOS
```

```
*Aug 8 21:24:14.775: %HA_EM-6-LOG: tm_wanmon.tcl: Output:
```

```
*Aug 8 21:24:14.775: %HA_EM-6-LOG: tm_wanmon.tcl: CGR1000# <----- Output from IOS tells  
WANMON that it is now at the privileged exec prompt
```

```
*Aug 8 21:24:14.789: %HA_EM-6-LOG: tm_wanmon.tcl: context_retrieve succeeded <----- The  
router was able to successfully retrieve WANMON polling data
```

```
*Aug 8 21:24:14.789: %HA_EM-6-LOG: tm_wanmon.tcl: last_run: 1249760980 <----- The event  
identifier for the last time WANMON polled its enabled interfaces
```

```
*Aug 8 21:24:14.789: %HA_EM-6-LOG: tm_wanmon.tcl: exec_count: 5 <----- The number of times  
WANMON has polled since it last started. The last operation (1249760980) was the 5th process in  
a row
```

```
*Aug 8 21:24:14.791: %HA_EM-6-LOG: tm_wanmon.tcl: GigabitEthernet2/1,link_events: {1 {  
1249760380 {Sat Aug 08 19:39:40 UTC 2009}} <----- Enabled interfaces and time stamp of first  
execution
```

```
*Aug 8 21:24:14.791: %HA_EM-6-LOG: tm_wanmon.tcl: last_polled_run: 1249760980 <-----  
last_run and last_polled_run are equal in this case but if recovery levels are active the last  
polled run may be earlier than the last_run
```

```
*Aug 8 21:24:14.797: %HA_EM-6-LOG: tm_wanmon.tcl: Starting: Received event polltimer <-----  
A new polling process has started with a new polltimer
```

```
*Aug 8 21:24:14.799: %HA_EM-6-LOG: tm_wanmon.tcl: Name: timer_name Value: {}
```

```
*Aug 8 21:24:14.799: %HA_EM-6-LOG: tm_wanmon.tcl: Name: event_pub_sec Value: 1249766654 <---  
-- The new event identifier
```

```
*Aug 8 21:24:14.799: %HA_EM-6-LOG: tm_wanmon.tcl: Name: event_type Value: 21
```

```
*Aug 8 21:24:14.801: %HA_EM-6-LOG: tm_wanmon.tcl: Name: timer_remain Value: 600.000 <-----  
The polltimer has been reset and there are 600 seconds until the next polling event
```

```
*Aug 8 21:24:14.801: %HA_EM-6-LOG: tm_wanmon.tcl: Name: event_severity Value: severity-normal  
<----- This message indicates that this is a regular poll and not caused by one of the alert  
levels being triggered from a previous polling event
```

```
*Aug 8 21:24:14.803: %HA_EM-6-LOG: tm_wanmon.tcl: Name: event_id Value: 3
```

```
*Aug 8 21:24:14.803: %HA_EM-6-LOG: tm_wanmon.tcl: Name: event_type_string Value: timer watchdog
```

```
*Aug 8 21:24:14.803: %HA_EM-6-LOG: tm_wanmon.tcl: Name: timer_time_sec Value: 3458755454
```

```
*Aug 8 21:24:14.805: %HA_EM-6-LOG: tm_wanmon.tcl: Name: timer_type Value: watchdog
```

```
*Aug 8 21:24:14.805: %HA_EM-6-LOG: tm_wanmon.tcl: Name: timer_remain_msec Value: 0
```

```
*Aug 8 21:24:14.805: %HA_EM-6-LOG: tm_wanmon.tcl: Name: timer_remain_sec Value: 600
```

```
*Aug 8 21:24:14.805: %HA_EM-6-LOG: tm_wanmon.tcl: Name: timer_time_msec Value: 46
```

```
*Aug 8 21:24:14.807: %HA_EM-6-LOG: tm_wanmon.tcl: Name: event_pub_time Value: 1249766654.045
```

```
*Aug 8 21:24:14.807: %HA_EM-6-LOG: tm_wanmon.tcl: Name: job_id Value: 6
```

```
*Aug 8 21:24:14.807: %HA_EM-6-LOG: tm_wanmon.tcl: Name: event_pub_msec Value: 45
```

```
*Aug 8 21:24:14.807: %HA_EM-6-LOG: tm_wanmon.tcl: Name: timer_time Value: 3458755454.046
```

```
*Aug 8 21:24:14.807: %HA_EM-6-LOG: tm_wanmon.tcl: Exec count: 6 <----- The exec_count has  
incremented by 1 from the previous execution
```

```
*Aug 8 21:24:14.811: %HA_EM-6-LOG: tm_wanmon.tcl: All interface vars wanmon_if_list1 <-----  
If multiple lists are present, they will all be included here separated by spaces (i.e.
```

```

wanmon_if_list1 wanmon_if_list2 wanmon_if_list3)
*Aug 8 21:24:14.813: %HA_EM-6-LOG: tm_wanmon.tcl: wanmon_interfaces: {GigabitEthernet2/1
{recovery {5 25} {90 180} {600 100}} } <----- The bracketed configurations from all WANMON
statements will be included in this line
*Aug 8 21:24:14.821: %HA_EM-6-LOG: tm_wanmon.tcl: last_polled_run: 1249760980 <----- Event
identifier for exec_count 5
*Aug 8 21:24:14.821: %HA_EM-6-LOG: tm_wanmon.tcl: current_polled_run: 1249766654 <-----
Event identifier for exec_count 6 which is the current process
*Aug 8 21:24:14.823: %HA_EM-6-LOG: tm_wanmon.tcl: drift: 5074
*Aug 8 21:24:14.823: %HA_EM-6-LOG: tm_wanmon.tcl: abs_drift: 5074
*Aug 8 21:24:14.823: %HA_EM-6-LOG: tm_wanmon.tcl: drift_thres: 3600
*Aug 8 21:24:14.825: %HA_EM-4-LOG: tm_wanmon.tcl: Clock drift (5074 s), threshold exceeded,
reseting context
*Aug 8 21:24:14.827: %HA_EM-6-LOG: tm_wanmon.tcl: Querying all interface name and states <--
--- This output signifies that WANMON is now polling layer 1 and 2 status for all enabled
interfaces
*Aug 8 21:24:14.833: %HA_EM-6-LOG: tm_wanmon.tcl: Command: show interface GigabitEthernet2/1 |
include line protocol <----- Command send to IOS
*Aug 8 21:24:15.047: %HA_EM-6-LOG: tm_wanmon.tcl: Output: GigabitEthernet2/1 is up, line
protocol is up <----- Input received from IOS
*Aug 8 21:24:15.047: %HA_EM-6-LOG: tm_wanmon.tcl: CGR1000#
*Aug 8 21:24:15.057: %HA_EM-6-LOG: tm_wanmon.tcl: GigabitEthernet2/1 admin_state:1,
line_state:1 <----- WANMON assigns a binary (0 or 1) value to admin_state and line_state tcl
variables
*Aug 8 21:24:15.061: %HA_EM-6-LOG: tm_wanmon.tcl: Processing all interface config
*Aug 8 21:24:15.087: %HA_EM-6-LOG: tm_wanmon.tcl: Querying all IP addresses
*Aug 8 21:24:15.099: %HA_EM-6-LOG: tm_wanmon.tcl: Querying all IPLSA <----- As IP SLA is not
attached to this configuration, there is no IP SLA output
*Aug 8 21:24:15.105: %HA_EM-6-LOG: tm_wanmon.tcl: Querying all traffic stats
*Aug 8 21:24:15.109: %HA_EM-6-LOG: tm_wanmon.tcl: Processing all interface statistics
*Aug 8 21:24:15.113: %HA_EM-6-LOG: tm_wanmon.tcl: Interface GigabitEthernet2/1:
*Aug 8 21:24:15.119: %HA_EM-6-LOG: tm_wanmon.tcl: GigabitEthernet2/1 lineproto=1 => 1 <-----
The script's logic is that if line_state is 1 or greater then consider the status as "up"
*Aug 8 21:24:15.131: %HA_EM-1-LOG: tm_wanmon.tcl: Detected GigabitEthernet2/1 link is up <--
--- Up status confirmed
*Aug 8 21:24:15.137: %HA_EM-6-LOG: tm_wanmon.tcl: wanmon_ctx(GigabitEthernet2/1,admin_state) = 1
*Aug 8 21:24:15.137: %HA_EM-6-LOG: tm_wanmon.tcl: wanmon_ctx(GigabitEthernet2/1,causes) =
*Aug 8 21:24:15.137: %HA_EM-6-LOG: tm_wanmon.tcl: wanmon_ctx(GigabitEthernet2/1,checkip) = 0
*Aug 8 21:24:15.139: %HA_EM-6-LOG: tm_wanmon.tcl: wanmon_ctx(GigabitEthernet2/1,checklist) =
lineproto
*Aug 8 21:24:15.139: %HA_EM-6-LOG: tm_wanmon.tcl: wanmon_ctx(GigabitEthernet2/1,exists) = 1
*Aug 8 21:24:15.139: %HA_EM-6-LOG: tm_wanmon.tcl: wanmon_ctx(GigabitEthernet2/1,fullname) =
GigabitEthernet2/1 <----- This section is where the recovery level timers are shown as well
as whether or not the interface state is a 0 or 1.
*Aug 8 21:24:15.139: %HA_EM-6-LOG: tm_wanmon.tcl: wanmon_ctx(GigabitEthernet2/1,lineproto,state)
= 1
*Aug 8 21:24:15.139: %HA_EM-6-LOG: tm_wanmon.tcl: wanmon_ctx(GigabitEthernet2/1,recovery,0,max)
= 25
*Aug 8 21:24:15.141: %HA_EM-6-LOG: tm_wanmon.tcl:
wanmon_ctx(GigabitEthernet2/1,recovery,0,thresh) = 5
*Aug 8 21:24:15.141: %HA_EM-6-LOG: tm_wanmon.tcl: wanmon_ctx(GigabitEthernet2/1,recovery,1,max)
= 180
*Aug 8 21:24:15.141: %HA_EM-6-LOG: tm_wanmon.tcl:
wanmon_ctx(GigabitEthernet2/1,recovery,1,thresh) = 90
*Aug 8 21:24:15.143: %HA_EM-6-LOG: tm_wanmon.tcl: wanmon_ctx(GigabitEthernet2/1,recovery,2,max)
= 100
*Aug 8 21:24:15.143: %HA_EM-6-LOG: tm_wanmon.tcl:
wanmon_ctx(GigabitEthernet2/1,recovery,2,thresh) = 600
*Aug 8 21:24:15.145: %HA_EM-6-LOG: tm_wanmon.tcl: wanmon_ctx(GigabitEthernet2/1,state) = 1
<----- Once the script has completed, the 'state' value is set to 1 and no recovery actions are
taken
*Aug 8 21:24:15.145: %HA_EM-6-LOG: tm_wanmon.tcl: wanmon_ctx(current_polled_run) = 1249766654
<----- This is the event identifier which correlates with exec_count 6
*Aug 8 21:24:15.145: %HA_EM-6-LOG: tm_wanmon.tcl: wanmon_ctx(if_list) = GigabitEthernet2/1

```

```
*Aug 8 21:24:15.147: %HA_EM-6-LOG: tm_wanmon.tcl:
wanmon_saved_ctx(GigabitEthernet2/1,link_events) = {1 {} 1249766655 {Sat Aug 08 21:24:15 UTC
2009}} <----- exec_count 6 is finished and its historical polling data has been saved
*Aug 8 21:24:15.147: %HA_EM-6-LOG: tm_wanmon.tcl: Finished <----- Regular polling has
finished
*Aug 8 21:24:15.159: %HA_EM-6-LOG: tm_wanmon.tcl: context_save succeeded <----- The process
has been statefully ended without error
```

スクリプトを実行している間よくある 問題

シンタックスエラー

状況は設定される、実際に影響を持っていませんとき WANMON ははたらくとどこに考えるか起こることができません。たとえば、WANMON スクリプトが正しくはたらかなかった環境で、このデバッグ 出力は監視されました:

```
*Aug 8 21:44:14.487: %HA_EM-6-LOG: tm_wanmon.tcl: Command: enable
*Aug 8 21:44:14.601: %HA_EM-6-LOG: tm_wanmon.tcl: Output:
*Aug 8 21:44:14.601: %HA_EM-6-LOG: tm_wanmon.tcl: CGR1000#
*Aug 8 21:44:14.617: %HA_EM-6-LOG: tm_wanmon.tcl: context_retrieve succeeded
*Aug 8 21:44:14.617: %HA_EM-6-LOG: tm_wanmon.tcl: last_run: 1249767255
*Aug 8 21:44:14.617: %HA_EM-6-LOG: tm_wanmon.tcl: exec_count: 1
*Aug 8 21:44:14.619: %HA_EM-6-LOG: tm_wanmon.tcl: GigabitEthernet2/1,link_events: {1 {}
1249766655 {Sat Aug 08 21:24:15 UTC 2009}}
*Aug 8 21:44:14.619: %HA_EM-6-LOG: tm_wanmon.tcl: last_polled_run: 1249767255
*Aug 8 21:44:14.627: %HA_EM-6-LOG: tm_wanmon.tcl: Starting: Received event polltimer
*Aug 8 21:44:14.627: %HA_EM-6-LOG: tm_wanmon.tcl: Name: timer_name Value: {}
*Aug 8 21:44:14.629: %HA_EM-6-LOG: tm_wanmon.tcl: Name: event_pub_sec Value: 1249767854
*Aug 8 21:44:14.629: %HA_EM-6-LOG: tm_wanmon.tcl: Name: event_type Value: 21
*Aug 8 21:44:14.629: %HA_EM-6-LOG: tm_wanmon.tcl: Name: timer_remain Value: 600.000
*Aug 8 21:44:14.629: %HA_EM-6-LOG: tm_wanmon.tcl: Name: event_severity Value: severity-normal
*Aug 8 21:44:14.629: %HA_EM-6-LOG: tm_wanmon.tcl: Name: event_id Value: 3
*Aug 8 21:44:14.631: %HA_EM-6-LOG: tm_wanmon.tcl: Name: event_type_string Value: timer watchdog
*Aug 8 21:44:14.631: %HA_EM-6-LOG: tm_wanmon.tcl: Name: timer_time_sec Value: 3458756654
*Aug 8 21:44:14.631: %HA_EM-6-LOG: tm_wanmon.tcl: Name: timer_type Value: watchdog
*Aug 8 21:44:14.633: %HA_EM-6-LOG: tm_wanmon.tcl: Name: timer_remain_msec Value: 0
*Aug 8 21:44:14.633: %HA_EM-6-LOG: tm_wanmon.tcl: Name: timer_remain_sec Value: 600
*Aug 8 21:44:14.633: %HA_EM-6-LOG: tm_wanmon.tcl: Name: timer_time_msec Value: 45
*Aug 8 21:44:14.635: %HA_EM-6-LOG: tm_wanmon.tcl: Name: event_pub_time Value: 1249767854.045
*Aug 8 21:44:14.635: %HA_EM-6-LOG: tm_wanmon.tcl: Name: job_id Value: 8
*Aug 8 21:44:14.635: %HA_EM-6-LOG: tm_wanmon.tcl: Name: event_pub_msec Value: 45
*Aug 8 21:44:14.635: %HA_EM-6-LOG: tm_wanmon.tcl: Name: timer_time Value: 3458756654.045
*Aug 8 21:44:14.635: %HA_EM-6-LOG: tm_wanmon.tcl: Exec count: 2
*Aug 8 21:44:14.639: %HA_EM-6-LOG: tm_wanmon.tcl: All interface vars wanmon_if_list1
*Aug 8 21:44:14.641: %HA_EM-6-LOG: tm_wanmon.tcl: wanmon_interfaces: {gig 2/1 {recovery {5 25}
{90 180} {400 100}}} }
*Aug 8 21:44:14.649: %HA_EM-6-LOG: tm_wanmon.tcl: last_polled_run: 1249767255
*Aug 8 21:44:14.649: %HA_EM-6-LOG: tm_wanmon.tcl: current_polled_run: 1249767854
*Aug 8 21:44:14.651: %HA_EM-6-LOG: tm_wanmon.tcl: drift: -1
*Aug 8 21:44:14.651: %HA_EM-6-LOG: tm_wanmon.tcl: abs_drift: 1
*Aug 8 21:44:14.651: %HA_EM-6-LOG: tm_wanmon.tcl: drift_thres: 3600
*Aug 8 21:44:14.655: %HA_EM-6-LOG: tm_wanmon.tcl: Querying all interface name and states
*Aug 8 21:44:14.659: %HA_EM-6-LOG: tm_wanmon.tcl: Command: show interface gig | include line
protocol <----- Here you can see the command which has been sent to IOS which indicates that
'show interface gig' instead of 'show interface gig1/2' has been sent
*Aug 8 21:44:14.889: %HA_EM-6-LOG: tm_wanmon.tcl: Output:
*Aug 8 21:44:14.889: %HA_EM-6-LOG: tm_wanmon.tcl: show interface gig | include line protocol
*Aug 8 21:44:14.889: %HA_EM-6-LOG: tm_wanmon.tcl: ^
*Aug 8 21:44:14.889: %HA_EM-6-LOG: tm_wanmon.tcl: % Invalid input detected at '^' marker.
*Aug 8 21:44:14.889: %HA_EM-6-LOG: tm_wanmon.tcl:
*Aug 8 21:44:14.889: %HA_EM-6-LOG: tm_wanmon.tcl: CGR1000#
*Aug 8 21:44:14.895: %HA_EM-1-LOG: tm_wanmon.tcl: Configuration error: Interface gig does not
```

exist. Please check configuration. <----- If there is a syntax error in the WANMON statements, you will see "Configuration error" in the output following the raw session output

```
*Aug 8 21:44:14.899: %HA_EM-6-LOG: tm_wanmon.tcl: Processing all interface config
*Aug 8 21:44:14.915: %HA_EM-6-LOG: tm_wanmon.tcl: context_save succeeded
```

この出力に従って、スクリプトはインターフェイス名および数の間の領域があるというファクトが原因で実行に成功しません。このエラーを引き起こしたコマンドは次のとおりでした:

```
event manager environment wanmon_if_list1 {gig 2/1 {recovery {5 25} {90 180} {400 100}}} }
正しい設定は次のとおりであるはずです:
```

```
event manager environment wanmon_if_list1 {gig2/1 {recovery {5 25} {90 180} {400 100}}} }
```

インターネット プロトコル サービス レベル 契約 (IPSLA)

WANMON が IPSLA のマルチプルインターフェイスをポーリングすれば。

IPSLA オペレーション、すぐに失敗がどこにいるか判別するために厄介である場合もあります。このデバッグ 出力は各インターフェイスの IP SLA を使う場合の 2 つのインターフェイスが WANMON によって監視されるときの何が起こるか示します:

```
*Aug 9 19:55:36.433: %HA_EM-6-LOG: tm_wanmon.tcl: Command: enable
*Aug 9 19:55:36.547: %HA_EM-6-LOG: tm_wanmon.tcl: Output:
*Aug 9 19:55:36.547: %HA_EM-6-LOG: tm_wanmon.tcl: CGR1000#
*Aug 9 19:55:36.565: %HA_EM-6-LOG: tm_wanmon.tcl: context_retrieve succeeded
*Aug 9 19:55:36.565: %HA_EM-6-LOG: tm_wanmon.tcl: last_run: 1249847563
*Aug 9 19:55:36.565: %HA_EM-6-LOG: tm_wanmon.tcl: exec_count: 5
*Aug 9 19:55:36.565: %HA_EM-6-LOG: tm_wanmon.tcl: GigabitEthernet2/1,link_events: {0 ipsla
1249847563 {Sun Aug 09 19:52:43 UTC 2009}} {1 {} 1249847478 {Sun Aug 09 19:51:18 UTC 2009}}
*Aug 9 19:55:36.567: %HA_EM-6-LOG: tm_wanmon.tcl: GigabitEthernet2/2,link_events: {0 lineproto
1249847478 {Sun Aug 09 19:51:18 UTC 2009}}
*Aug 9 19:55:36.567: %HA_EM-6-LOG: tm_wanmon.tcl: last_polled_run: 1249847136
*Aug 9 19:55:36.575: %HA_EM-6-LOG: tm_wanmon.tcl: Starting: Received event polltimer
*Aug 9 19:55:36.577: %HA_EM-6-LOG: tm_wanmon.tcl: Name: timer_name Value: {}
*Aug 9 19:55:36.577: %HA_EM-6-LOG: tm_wanmon.tcl: Name: event_pub_sec Value: 1249847735
*Aug 9 19:55:36.577: %HA_EM-6-LOG: tm_wanmon.tcl: Name: event_type Value: 21
*Aug 9 19:55:36.577: %HA_EM-6-LOG: tm_wanmon.tcl: Name: timer_remain Value: 600.000
*Aug 9 19:55:36.579: %HA_EM-6-LOG: tm_wanmon.tcl: Name: event_severity Value: severity-normal
*Aug 9 19:55:36.579: %HA_EM-6-LOG: tm_wanmon.tcl: Name: event_id Value: 1
*Aug 9 19:55:36.579: %HA_EM-6-LOG: tm_wanmon.tcl: Name: event_type_string Value: timer watchdog
*Aug 9 19:55:36.581: %HA_EM-6-LOG: tm_wanmon.tcl: Name: timer_time_sec Value: 3458836535
*Aug 9 19:55:36.581: %HA_EM-6-LOG: tm_wanmon.tcl: Name: timer_type Value: watchdog
*Aug 9 19:55:36.581: %HA_EM-6-LOG: tm_wanmon.tcl: Name: timer_remain_msec Value: 0
*Aug 9 19:55:36.583: %HA_EM-6-LOG: tm_wanmon.tcl: Name: timer_remain_sec Value: 600
*Aug 9 19:55:36.583: %HA_EM-6-LOG: tm_wanmon.tcl: Name: timer_time_msec Value: 908
*Aug 9 19:55:36.583: %HA_EM-6-LOG: tm_wanmon.tcl: Name: event_pub_time Value: 1249847735.907
*Aug 9 19:55:36.585: %HA_EM-6-LOG: tm_wanmon.tcl: Name: job_id Value: 6
*Aug 9 19:55:36.585: %HA_EM-6-LOG: tm_wanmon.tcl: Name: event_pub_msec Value: 907
*Aug 9 19:55:36.585: %HA_EM-6-LOG: tm_wanmon.tcl: Name: timer_time Value: 3458836535.908
*Aug 9 19:55:36.585: %HA_EM-6-LOG: tm_wanmon.tcl: Exec count: 6 <----- The new polling
interval has begun
*Aug 9 19:55:36.591: %HA_EM-6-LOG: tm_wanmon.tcl: All interface vars wanmon_if_list1
wanmon_if_list3 <----- Both lists are included in this output
*Aug 9 19:55:36.593: %HA_EM-6-LOG: tm_wanmon.tcl: wanmon_interfaces: {GigabitEthernet2/1 {ipsla
1} } {GigabitEthernet2/2 {ipsla 2} } <----- Both bracketed configurations are included in
this output
*Aug 9 19:55:36.601: %HA_EM-6-LOG: tm_wanmon.tcl: last_polled_run: 1249847136
*Aug 9 19:55:36.603: %HA_EM-6-LOG: tm_wanmon.tcl: current_polled_run: 1249847736
*Aug 9 19:55:36.603: %HA_EM-6-LOG: tm_wanmon.tcl: drift: 0
*Aug 9 19:55:36.603: %HA_EM-6-LOG: tm_wanmon.tcl: abs_drift: 0
*Aug 9 19:55:36.603: %HA_EM-6-LOG: tm_wanmon.tcl: drift_thres: 3600
*Aug 9 19:55:36.605: %HA_EM-6-LOG: tm_wanmon.tcl: Querying all interface name and states <--
```

--- WANMON sends show commands to IOS for both enabled interfaces

```
*Aug 9 19:55:36.613: %HA_EM-6-LOG: tm_wanmon.tcl: Command: show interface GigabitEthernet2/1 |
include line protocol
*Aug 9 19:55:36.825: %HA_EM-6-LOG: tm_wanmon.tcl: Output: GigabitEthernet2/1 is up, line
protocol is up
*Aug 9 19:55:36.825: %HA_EM-6-LOG: tm_wanmon.tcl: CGR1000#
*Aug 9 19:55:36.835: %HA_EM-6-LOG: tm_wanmon.tcl: GigabitEthernet2/1 admin_state:1,
line_state:1 <----- GigabitEthernet2/1 is up/up so it sets admin_state and line_state to 1
*Aug 9 19:55:36.835: %HA_EM-6-LOG: tm_wanmon.tcl: Command: show interface GigabitEthernet2/2 |
include line protocol
*Aug 9 19:55:37.047: %HA_EM-6-LOG: tm_wanmon.tcl: Output: GigabitEthernet2/2 is down, line
protocol is down
*Aug 9 19:55:37.047: %HA_EM-6-LOG: tm_wanmon.tcl: CGR1000#
*Aug 9 19:55:37.055: %HA_EM-6-LOG: tm_wanmon.tcl: GigabitEthernet2/2 admin_state:1,
line_state:0 <----- GigabitEthernet2/2 is down/down but admin_state is still set to 1
because it is administratively enabled. Since layer 2 is down, line_state is set to 0
*Aug 9 19:55:37.059: %HA_EM-6-LOG: tm_wanmon.tcl: Processing all interface config
*Aug 9 19:55:37.083: %HA_EM-6-LOG: tm_wanmon.tcl: Querying all IP addresses
*Aug 9 19:55:37.095: %HA_EM-6-LOG: tm_wanmon.tcl: Querying all IPSLA <----- Due to the fact
that IP SLA operations are configured for both interfaces, WANMON now sends show commands to
check IP SLA status
*Aug 9 19:55:37.097: %HA_EM-6-LOG: tm_wanmon.tcl: Querying IP SLA for GigabitEthernet2/1
*Aug 9 19:55:37.099: %HA_EM-6-LOG: tm_wanmon.tcl: Command: show ip sla statistics 1 | include
Latest operation return code: <----- IP SLA 1 is queried
*Aug 9 19:55:37.309: %HA_EM-6-LOG: tm_wanmon.tcl: Output: Latest operation return code: Timeout
<----- The state is down because the last return code for the icmp-echo IP SLA process is
Timeout
*Aug 9 19:55:37.309: %HA_EM-6-LOG: tm_wanmon.tcl: CGR1000#
*Aug 9 19:55:37.311: %HA_EM-6-LOG: tm_wanmon.tcl: GigabitEthernet2/1 ipsla: 0 <----- The
ipsla value for Gig2/1 is now set to 0 because the state is down
*Aug 9 19:55:37.313: %HA_EM-6-LOG: tm_wanmon.tcl: Querying IP SLA for GigabitEthernet2/2
*Aug 9 19:55:37.313: %HA_EM-6-LOG: tm_wanmon.tcl: Command: show ip sla statistics 2 | include
Latest operation return code:
*Aug 9 19:55:37.527: %HA_EM-6-LOG: tm_wanmon.tcl: Output: Latest operation return code: OK
<----- IP SLA operation 2 is up, the remote address is reachable
*Aug 9 19:55:37.527: %HA_EM-6-LOG: tm_wanmon.tcl: CGR1000#
*Aug 9 19:55:37.529: %HA_EM-6-LOG: tm_wanmon.tcl: GigabitEthernet2/2 ipsla: 1 <----- The
ipsla value for Gig2/2 is now set to 1 because the state is up
*Aug 9 19:55:37.535: %HA_EM-6-LOG: tm_wanmon.tcl: Querying all traffic stats
*Aug 9 19:55:37.539: %HA_EM-6-LOG: tm_wanmon.tcl: Processing all interface statistics
*Aug 9 19:55:37.543: %HA_EM-6-LOG: tm_wanmon.tcl: Interface GigabitEthernet2/1:
*Aug 9 19:55:37.543: %HA_EM-6-LOG: tm_wanmon.tcl: Interface GigabitEthernet2/2:
*Aug 9 19:55:37.551: %HA_EM-6-LOG: tm_wanmon.tcl: GigabitEthernet2/1 lineproto=1 ipsla=0 => 0
<----- WANMON now checks for 2 dependencies in order to determine state. For interface Gig2/1
the IP SLA state is down even though the interface is up/up.
*Aug 9 19:55:37.555: %HA_EM-6-LOG: tm_wanmon.tcl: GigabitEthernet2/2 lineproto=0 ipsla=1 => 0
<----- For Gig2/2, the IP SLA state is up but the interface is down
*Aug 9 19:55:37.589: %HA_EM-6-LOG: tm_wanmon.tcl: Interface GigabitEthernet2/1, Level 0 recovery
within 10 min
*Aug 9 19:55:37.593: %HA_EM-6-LOG: tm_wanmon.tcl: Interface GigabitEthernet2/1, Level 1 recovery
within 60 min
*Aug 9 19:55:37.595: %HA_EM-6-LOG: tm_wanmon.tcl: Interface GigabitEthernet2/1, Level 2 recovery
within 480 min
*Aug 9 19:55:37.597: %HA_EM-2-LOG: tm_wanmon.tcl: Interface GigabitEthernet2/1: Level 0 recovery
in 10 min
*Aug 9 19:55:37.603: %HA_EM-6-LOG: tm_wanmon.tcl: Interface GigabitEthernet2/2, Level 0 recovery
within 10 min
*Aug 9 19:55:37.605: %HA_EM-6-LOG: tm_wanmon.tcl: Interface GigabitEthernet2/2, Level 1 recovery
within 60 min
*Aug 9 19:55:37.609: %HA_EM-6-LOG: tm_wanmon.tcl: Interface GigabitEthernet2/2, Level 2 recovery
within 480 min
*Aug 9 19:55:37.609: %HA_EM-2-LOG: tm_wanmon.tcl: Interface GigabitEthernet2/2: Level 0 recovery
in 10 min
*Aug 9 19:55:37.613: %HA_EM-6-LOG: tm_wanmon.tcl: wanmon_ctx(GigabitEthernet2/1,admin_state) = 1
```

```
*Aug 9 19:55:37.615: %HA_EM-6-LOG: tm_wanmon.tcl: wanmon_ctx(GigabitEthernet2/1,causes) = ipsla
*Aug 9 19:55:37.615: %HA_EM-6-LOG: tm_wanmon.tcl: wanmon_ctx(GigabitEthernet2/1,check_ipsla) = 1
*Aug 9 19:55:37.615: %HA_EM-6-LOG: tm_wanmon.tcl: wanmon_ctx(GigabitEthernet2/1,checkip) = 0
*Aug 9 19:55:37.615: %HA_EM-6-LOG: tm_wanmon.tcl: wanmon_ctx(GigabitEthernet2/1,checklist) =
lineproto ipsla
*Aug 9 19:55:37.617: %HA_EM-6-LOG: tm_wanmon.tcl: wanmon_ctx(GigabitEthernet2/1,exists) = 1
*Aug 9 19:55:37.617: %HA_EM-6-LOG: tm_wanmon.tcl: wanmon_ctx(GigabitEthernet2/1,fullname) =
GigabitEthernet2/1
*Aug 9 19:55:37.617: %HA_EM-6-LOG: tm_wanmon.tcl: wanmon_ctx(GigabitEthernet2/1,ipsla,state) = 0
*Aug 9 19:55:37.619: %HA_EM-6-LOG: tm_wanmon.tcl: wanmon_ctx(GigabitEthernet2/1,lineproto,state)
= 1
*Aug 9 19:55:37.619: %HA_EM-6-LOG: tm_wanmon.tcl: wanmon_ctx(GigabitEthernet2/1,recovery,0,max)
= 10
*Aug 9 19:55:37.619: %HA_EM-6-LOG: tm_wanmon.tcl:
wanmon_ctx(GigabitEthernet2/1,recovery,0,thresh) = 10
*Aug 9 19:55:37.621: %HA_EM-6-LOG: tm_wanmon.tcl: wanmon_ctx(GigabitEthernet2/1,recovery,1,max)
= 60
*Aug 9 19:55:37.621: %HA_EM-6-LOG: tm_wanmon.tcl:
wanmon_ctx(GigabitEthernet2/1,recovery,1,thresh) = 60
*Aug 9 19:55:37.621: %HA_EM-6-LOG: tm_wanmon.tcl: wanmon_ctx(GigabitEthernet2/1,recovery,2,max)
= 60
*Aug 9 19:55:37.621: %HA_EM-6-LOG: tm_wanmon.tcl:
wanmon_ctx(GigabitEthernet2/1,recovery,2,thresh) = 480
*Aug 9 19:55:37.623: %HA_EM-6-LOG: tm_wanmon.tcl:
wanmon_ctx(GigabitEthernet2/1,recovery,next,level) = 0
*Aug 9 19:55:37.623: %HA_EM-6-LOG: tm_wanmon.tcl:
wanmon_ctx(GigabitEthernet2/1,recovery,next,repeat) = 0
*Aug 9 19:55:37.623: %HA_EM-6-LOG: tm_wanmon.tcl:
wanmon_ctx(GigabitEthernet2/1,recovery,next,time_left) = 600
*Aug 9 19:55:37.625: %HA_EM-6-LOG: tm_wanmon.tcl: wanmon_ctx(GigabitEthernet2/1,slaid) = 1
<----- This output gives you the SLA ID (1) of the process bound to the Gig2/1 interface
*Aug 9 19:55:37.625: %HA_EM-6-LOG: tm_wanmon.tcl: wanmon_ctx(GigabitEthernet2/1,state) = 0
<----- The state has been marked 0 or down due to the fact that check_ipsla value is 0 even
though the interface is up and line_state is 1
*Aug 9 19:55:37.627: %HA_EM-6-LOG: tm_wanmon.tcl: wanmon_ctx(GigabitEthernet2/2,admin_state) = 1
*Aug 9 19:55:37.627: %HA_EM-6-LOG: tm_wanmon.tcl: wanmon_ctx(GigabitEthernet2/2,causes) =
lineproto
*Aug 9 19:55:37.627: %HA_EM-6-LOG: tm_wanmon.tcl: wanmon_ctx(GigabitEthernet2/2,check_ipsla) = 1
*Aug 9 19:55:37.629: %HA_EM-6-LOG: tm_wanmon.tcl: wanmon_ctx(GigabitEthernet2/2,checkip) = 0
*Aug 9 19:55:37.629: %HA_EM-6-LOG: tm_wanmon.tcl: wanmon_ctx(GigabitEthernet2/2,checklist) =
lineproto ipsla
*Aug 9 19:55:37.629: %HA_EM-6-LOG: tm_wanmon.tcl: wanmon_ctx(GigabitEthernet2/2,exists) = 1
*Aug 9 19:55:37.631: %HA_EM-6-LOG: tm_wanmon.tcl: wanmon_ctx(GigabitEthernet2/2,fullname) =
GigabitEthernet2/2
*Aug 9 19:55:37.631: %HA_EM-6-LOG: tm_wanmon.tcl: wanmon_ctx(GigabitEthernet2/2,ipsla,state) = 1
*Aug 9 19:55:37.631: %HA_EM-6-LOG: tm_wanmon.tcl: wanmon_ctx(GigabitEthernet2/2,lineproto,state)
= 0
*Aug 9 19:55:37.631: %HA_EM-6-LOG: tm_wanmon.tcl: wanmon_ctx(GigabitEthernet2/2,recovery,0,max)
= 10
*Aug 9 19:55:37.633: %HA_EM-6-LOG: tm_wanmon.tcl:
wanmon_ctx(GigabitEthernet2/2,recovery,0,thresh) = 10
*Aug 9 19:55:37.633: %HA_EM-6-LOG: tm_wanmon.tcl: wanmon_ctx(GigabitEthernet2/2,recovery,1,max)
= 60
*Aug 9 19:55:37.635: %HA_EM-6-LOG: tm_wanmon.tcl:
wanmon_ctx(GigabitEthernet2/2,recovery,1,thresh) = 60
*Aug 9 19:55:37.635: %HA_EM-6-LOG: tm_wanmon.tcl: wanmon_ctx(GigabitEthernet2/2,recovery,2,max)
= 60
*Aug 9 19:55:37.635: %HA_EM-6-LOG: tm_wanmon.tcl:
wanmon_ctx(GigabitEthernet2/2,recovery,2,thresh) = 480
*Aug 9 19:55:37.637: %HA_EM-6-LOG: tm_wanmon.tcl:
wanmon_ctx(GigabitEthernet2/2,recovery,next,level) = 0
*Aug 9 19:55:37.637: %HA_EM-6-LOG: tm_wanmon.tcl:
wanmon_ctx(GigabitEthernet2/2,recovery,next,repeat) = 0
*Aug 9 19:55:37.637: %HA_EM-6-LOG: tm_wanmon.tcl:
```

```
wanmon_ctx(GigabitEthernet2/2,recovery,next,time_left) = 600
*Aug 9 19:55:37.639: %HA_EM-6-LOG: tm_wanmon.tcl: wanmon_ctx(GigabitEthernet2/2,slaid) = 2
*Aug 9 19:55:37.639: %HA_EM-6-LOG: tm_wanmon.tcl: wanmon_ctx(GigabitEthernet2/2,state) = 0
<----- Gig2/2 has been marked 0 or down due to the fact that the line_state is 0, despite the
fact that the IP SLA operation is still UP and the check_ipsla value is 1
*Aug 9 19:55:37.639: %HA_EM-6-LOG: tm_wanmon.tcl: wanmon_ctx(current_polled_run) = 1249847736
*Aug 9 19:55:37.639: %HA_EM-6-LOG: tm_wanmon.tcl: wanmon_ctx(if_list) = GigabitEthernet2/1
GigabitEthernet2/2
*Aug 9 19:55:37.641: %HA_EM-6-LOG: tm_wanmon.tcl:
wanmon_saved_ctx(GigabitEthernet2/1,link_events) = {0 ipsla 1249847563 {Sun Aug 09 19:52:43 UTC
2009}} {1 {} 1249847478 {Sun Aug 09 19:51:18 UTC 2009}}
*Aug 9 19:55:37.641: %HA_EM-6-LOG: tm_wanmon.tcl:
wanmon_saved_ctx(GigabitEthernet2/2,link_events) = {0 lineproto 1249847478 {Sun Aug 09 19:51:18
UTC 2009}}
*Aug 9 19:55:37.641: %HA_EM-6-LOG: tm_wanmon.tcl: wanmon_saved_ctx(exec_count) = 6
*Aug 9 19:55:37.641: %HA_EM-6-LOG: tm_wanmon.tcl: wanmon_saved_ctx(last_polled_run) = 1249847136
*Aug 9 19:55:37.643: %HA_EM-6-LOG: tm_wanmon.tcl: wanmon_saved_ctx(last_run) = 1249847563
*Aug 9 19:55:37.643: %HA_EM-6-LOG: tm_wanmon.tcl: Finished
*Aug 9 19:55:37.661: %HA_EM-6-LOG: tm_wanmon.tcl: context_save succeeded
```

関連情報

- http://www.cisco.com/c/en/us/td/docs/routers/connectedgrid/cgr1000/ios/software/15_4_1_cg/WANMon.html
- http://www.cisco.com/c/en/us/td/docs/routers/connectedgrid/cgr1000/1_0/software/configuration/guide/unicast/Unicast Book/13_backhaul_cgr1000.html#wp998807
- [テクニカルサポートとドキュメント - Cisco Systems](#)