CCSP Hotspotfd Command Syntax Specification

Modification History

Revision	Date	Comments
1	09/29/2014	First Draft

Table of Contents

1 Introduction

For the Hotspot feature, the GRE tunnels need to be setup and maintained for the public Wi-Fi connection.

The command utility used to set up the tunnels is called “hotspotfd.” The Utopia handle_gre.sh script uses this command-line utility. This specification defines the syntax of this command.

2 Design Considerations

This command-line tool is designed to communicate with Utopia SYSEVENT to setup and maintain GRE tunnels to provide transparent Ethernet bridging of all traffic on the public network. It also uses shared memory to log statistics for the hotspot library.

The following tokens are used to interface with Utopia SYSEVENT:

```
#define kMax_IPAddressLength          40

#define kHotspotfd_events             "hotspotfd-update"

#define kHotspotfd_primary            "hotspotfd-primary"           // ip address of primary
#define khotspotfd_secondary          "hotspotfd-secondary"         // ip address of secondary
#define khotspotfd_keep_alive         "hotspotfd-keep-alive"        // time in secs between pings
#define khotspotfd_keep_alive_threshold   "hotspotfd-threshold"         // failed ping's before switching EP
#define khotspotfd_max_secondary      "hotspotfd-max-secondary"     // max. time allowed on secondary
#define kHotspotfd_tunnelEP           "hotspotfd-tunnelEP"          // Indicates an EP change
#define khotspotfd_keep_alive_policy      "hotspotfd-policy"            // ICMP ping pr NONE
#define khotspotfd_keep_alive_count       "hotspotfd-count"             // pings per keep-alive interval

#define khotspotfd_dead_interval      "hotspotfd-dead-interval"     // pings per minute when both EP's are down

#define khotspotfd_enable             "hotspotfd-enable"
#define khotspotfd_log_enable         "hotspotfd-log-enable"
```

```
#define kHotspotfd_primary_len              kMax_IPAddressLength
#define khotspotfd_secondary_len            kMax_IPAddressLength
#define khotspotfd_keep_alive_len           3
#define khotspotfd_keep_alive_threshold_len 3
#define khotspotfd_max_secondary_len        5
#define kHotspotfd_tunnelEP_len             kMax_IPAddressLength
#define khotspotfd_policy_len               4
#define khotspotfd_keep_alive_count_len     1
```

3 Command Syntax

3.1 General

The command syntax is:

```
Usage:  hotspotfd [-p<primary tunnel EP IP Address>] [-s<secondary tunnel EP IP Address>]
        [-i<keep alive interval (secs)>] [-t<keep alive threshold (multiple of intervals)>]
        [-m<maximum secondary EP time (secs)>] [-e<enable 0 or 1>} [-l<log enable 0 or 1>]
        [-n<network interface name>]
```

[-p<primary tunnel EP IP Address>]
* to specify the primary tunnel End Point IP Address

[-s<secondary tunnel EP IP Address>]\n");
* to specify the secondary tunnel End Point IP Address

[-i<keep alive interval (secs)>]
* to specify the keep alive interval

[-t<keep alive threshold (multiple of intervals)>]\n");
* to specify the keep alive threshold

[-m<maximum secondary EP time (secs)>]
* to specify the maximum time allowed on Secondary End Point

[-e<enable 0 or 1>]
* to enable keep alive or not
0 = to disable keep alive
1 = to enable keep alive

[-l<log enable 0 or 1>]\n");
* to enable keep alive logging or not
0 = to disable keep alive logging
1 = to enable keep alive logging

[-n<network interface name>]\n\n");
* to specify the network interface name

-f
* to run in foreground

4 References

End of Document