FL mGuard RS2000 configuration

Converting FL mGuard RS4000 configuration files for use in FL mGuard RS2000

1 Introduction

The FL mGuard RS2000 is optimized for use in software-independent remote maintenance scenarios. The FL mGuard RS2000 can be used as a VPN client for up to two concurrent VPN tunnels, and it functions as a robust remote maintenance infrastructure for the secure connection of globally distributed machines and control units.

The functional range of the FL mGuard RS2000 firmware consists of a basic subset of the more complete FL mGuard RS4000 and legacy RS firmware while remaining compatible with other FL mGuard products. The following features are not supported by the FL mGuard RS2000:

- Radius authentication
- User firewall
- Modem support
- DHCP server/DHCP relay for the external network
- Secondary external interface
- Firewall rules (limited to “accept all outgoing/incoming connections” or “drop all outgoing/incoming connections”)
- Advanced firewall settings (DoS protection)

Due to the reduced functional range, some configuration variables of an FL mGuard RS2000 configuration profile must have different values than those contained in a configuration profile built or downloaded from another mGuard product. Therefore, configuration profiles downloaded from other mGuard products (FL MGUARD SMART2, FL MGUARD RS VPN) must be adjusted before being imported and activated on an FL mGuard RS2000.

This document describes how to adjust a configuration profile built on a legacy unit for use in an FL mGuard RS2000 running firmware 7.4.

2 Configuration profile adjustment

The following variables must be adjusted before importing and activating a configuration profile from another mGuard product to the FL mGuard RS2000. WordPad, built into the Windows operating system, can be used to edit the configuration profile, which has an .atv file extension.

2.1 VPN connections

The FL mGuard RS2000 can be used as a VPN client for up to two VPN tunnels. If the configuration profile, which should be activated, contains VPN connections, it cannot have more than two VPN tunnels enabled. Note that more than two VPN tunnels can be configured but no more than two can be active.

The easiest way to disable all VPN connections and to modify them afterward is through the mGuard web interface after uploading and activating the profile on the

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FL mGuard RS2000. VPN connections have the following structure in the mGuard configuration profile:

```plaintext
VPN_CONNECTION = {
    /* VPN Connection 1 */
    VPN_ENABLED = "yes"
    /* VPN Connection 2 */
    VPN_ENABLED = "yes"
    /* VPN Connection 3 */
    VPN_ENABLED = "yes"
    /* VPN Connection n */
    VPN_ENABLED = "yes"
}
```

To disable VPN connections, set the VPN_ENABLED parameters to no.

```plaintext
VPN_CONNECTION = {
    /* VPN Connection 1 */
    VPN_ENABLED = "no"
    /* VPN Connection 2 */
    VPN_ENABLED = "no"
    /* VPN Connection 3 */
    VPN_ENABLED = "no"
    /* VPN Connection n */
    VPN_ENABLED = "no"
}
```

2.2 VPN firewall

The variables FW_INCOMING_GLOBAL and FW_OUTGOING_GLOBAL of the VPN firewall must be adjusted as follows:

```plaintext
VPN_CONNECTION = {
    /* VPN Connection 1 */
    FW_INCOMING_GLOBAL = "accept" (or "drop")
    FW_OUTGOING_GLOBAL = "accept" (or "drop")
    /* VPN Connection 2 */
    FW_INCOMING_GLOBAL = "accept" (or "drop")
    FW_OUTGOING_GLOBAL = "accept" (or "drop")
}
```

2.3 Other variables

The following variables must also be set to the values listed below:

- ARP_LIMIT_EXT="10000"
- ARP_LIMIT_INT="10000"
- FW_ICMP="all"
- FW_ICMP_EXT2="all"
- FW_INCOMING_GLOBAL="accept" (or "drop")
- FW_OUTGOING_GLOBAL="accept" (or "drop")
- ICMP_LIMIT_EXT="10000"
- ICMP_LIMIT_INT="10000"
- IP_SYNFLOOD_LIMIT_EXT="10000"
- IP_SYNFLOOD_LIMIT_INT="10000"
- IP_UNCLEAN_MATCH="no"

3 Conclusion

After making the above configuration edits, the ATV configuration file can be saved and then uploaded and restored on the FL mGuard RS2000.