

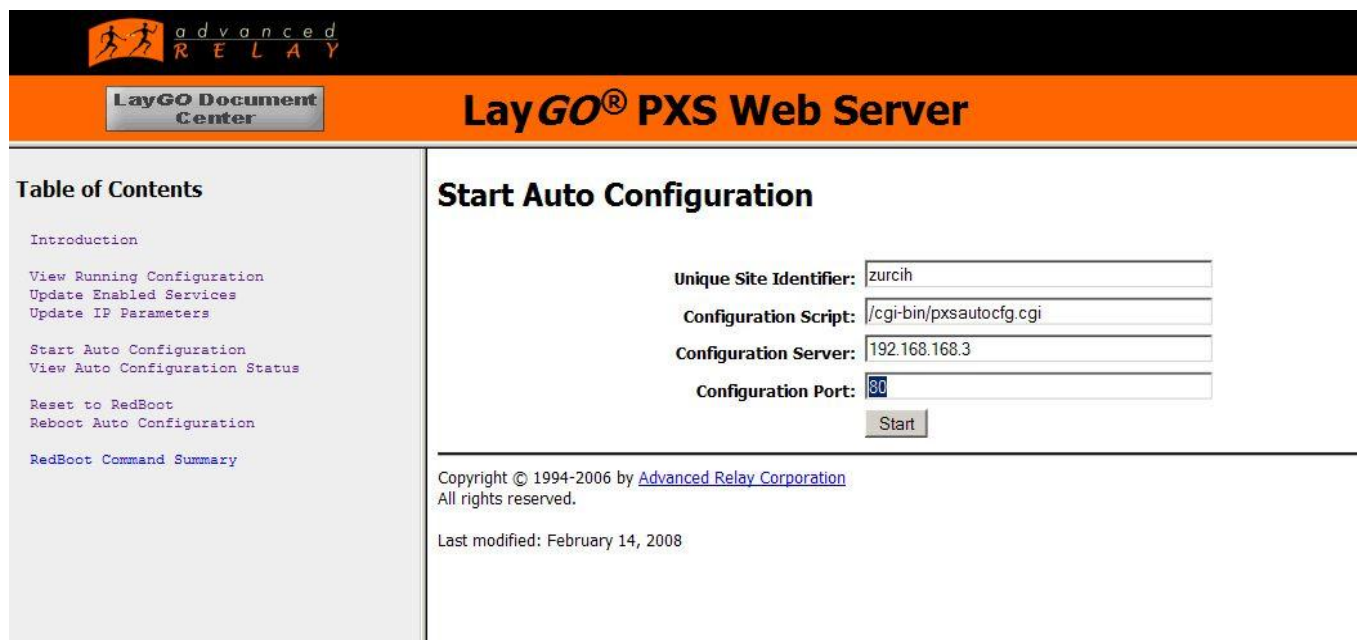
APIUS



Automatic PXSe Installation & Update Services

APIUS means “bee-like”. Similar to a bee, flying from her hive to get her food, such as nectar and pollen, the PXSe retrieves its “food”, the PXSe configuration data, from the APIUS server.

APIUS is a service module making the installation and configuration of the PXSe simple and nearly foolproof. After the technician connects the PXSe to the Host interface using the cable provided, he loads the PXSe built-in web-server and selects the “Start Auto Configuration” page. He just has to enter a site name, like the location where the PXSe is installed, the IP address of the APIUS server, and if no DHCP is supported, an IP-address for this site. That’s it!



The screenshot shows the web interface for the LayGO PXS Web Server. At the top, there is a navigation bar with the 'LayGO Document Center' logo and the title 'LayGO® PXS Web Server'. On the left side, there is a 'Table of Contents' menu with the following items: Introduction, View Running Configuration, Update Enabled Services, Update IP Parameters, Start Auto Configuration (highlighted), View Auto Configuration Status, Reset to RedBoot, Reboot Auto Configuration, and RedBoot Command Summary. The main content area is titled 'Start Auto Configuration' and contains a form with the following fields:

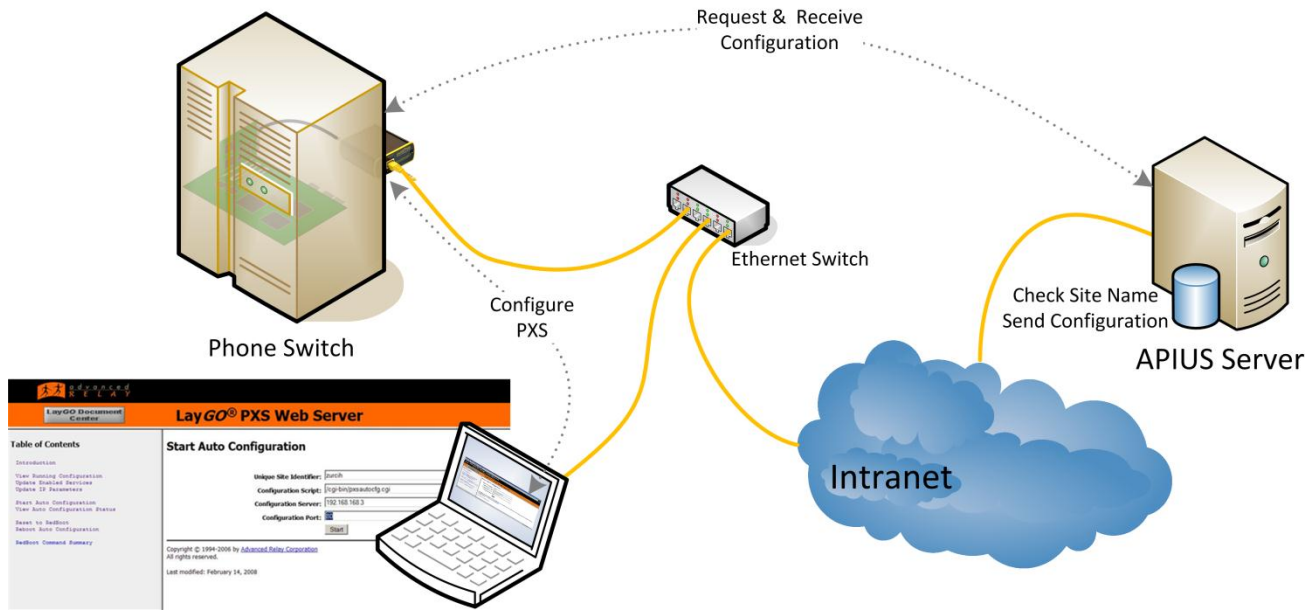
- Unique Site Identifier: zurcjh
- Configuration Script: /cgi-bin/pxsautocfg.cgi
- Configuration Server: 192.168.168.3
- Configuration Port: 80

Below the form is a 'Start' button. At the bottom of the page, there is a copyright notice: 'Copyright © 1994-2006 by Advanced Relay Corporation. All rights reserved.' and a date: 'Last modified: February 14, 2008'.

Once done, the PXSe, an APIUS client, automatically sends a message to the APIUS server with its site-name and requesting its configuration profile. The APIUS server verifies the site name and enters the PXSe’ IP address into its site’s directory. The APIUS server sends then a message to the PXSe including a script how to get its configuration profile, which may contain software, hardware and configuration parameters. After the PXSe retrieves its configuration profile, it installs run-time software in the standard boot area. It then reboots itself with the updated configuration profile and is ready for operation. Assuming the PXSe is connected to the Phone switch, operation will start.

Updates are similar, except they are done remotely. No technician has to be at the site. Once the APIUS server receives for a list of sites configuration updates, it sends a message to the PXSe units of these sites that updates are waiting. Once the PXSe is in *Idle State*, it then retrieves its new configuration, stores it in the boot sector, reboots itself and resumes operation.

Normally, one type of switches from one switch manufacturer uses the same interface and software. If there are updates, they normally will be the same for all switches. This simplifies the APIUS Server application.



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