

This article describes how to troubleshoot the Cisco WAAS Auto Deploy feature.

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## Cisco WAAS Auto Deploy Troubleshooting

Cisco WAAS Auto Deploy and Auto Registration Enhancements simplify network deployment of WAN optimization in branches, and greatly reduces dependency physical configuration.

**NOTE:** The Auto Deploy feature was introduced in WAAS version 5.1.1. This section is not applicable to earlier WAAS versions.

### Verifying DNS Configuration

Verify the following DNS queries can be made from a PC in the WAAS Network range:

- DNS "SRV" query for `_waascms._tcp.customerdomain.com`
  - ◆ If fails, "SRV" query for `_waascms._tcp.customerdomain.com`

The above SRV query should return the "A" (Host) record of the WAAS Central Manager. Verify that this record can also be resolved.

```

aaedward-mbp:~ aaedward$ nslookup
> set type=SRV
> _waascms._tcp.adbu.local
Server:      2.8.3.2
Address:    2.8.3.2#53

_waascms._tcp.adbu.local      service = 0 100 8443 pod3-cm.adbu.local.
> set type=A
> pod3-cm.adbu.local
Server:      2.8.3.2
Address:    2.8.3.2#53

Name:   pod3-cm.adbu.local
Address: 2.8.30.100
>

```

### Debugging Auto Deploy

If Cisco WAAS Auto Deploy succeeds, the following messages should be seen in the syslog.txt file:

```

2012 Nov 15 08:26:01 NO-HOSTNAME dhclient: %WAAS-DHCP-5-191000: DHCPDISCOVER on eth0 to 255.255.255.255:1
2012 Nov 15 08:26:01 NO-HOSTNAME dhclient: %WAAS-DHCP-5-191000: DHCPOFFER from 7.1.247.49
2012 Nov 15 08:26:06 NO-HOSTNAME dhclient: %WAAS-DHCP-5-191000: DHCPREQUEST on eth0 to 255.255.255.255:1
2012 Nov 15 08:26:06 NO-HOSTNAME dhclient: %WAAS-DHCP-5-191000: DHCPACK from 7.1.247.49
2012 Nov 15 08:26:06 NO-HOSTNAME %WAAS-DHCP-5-191000: Script called with reason: BOUND
2012 Nov 15 08:26:06 NO-HOSTNAME %WAAS-DHCP-5-191000: Configuring hostname: FIT1-OFF2-574
2012 Nov 15 08:26:06 FIT1-OFF2-574 %WAAS-DHCP-5-191000: Configuring new IP address: 7.1.247.50 255.255.255.255
2012 Nov 15 08:26:06 FIT1-OFF2-574 %WAAS-DHCP-5-191000: Configuring default gateway: 7.1.247.49
2012 Nov 15 08:26:06 FIT1-OFF2-574 %WAAS-DHCP-5-191000: Configuring domain name myfit.local
2012 Nov 15 08:26:06 FIT1-OFF2-574 cfg_bin_ip_domainname: %WAAS-CLI-5-170053: Recreated etc_hosts
2012 Nov 15 08:26:06 FIT1-OFF2-574 %WAAS-DHCP-5-191000: Configuring nameserver:7.1.240.10
2012 Nov 15 08:26:07 FIT1-OFF2-574 kernel: %WAAS-SYS-4-900000: process `dig' is using obsolete setsockopt
2012 Nov 15 08:26:11 FIT1-OFF2-574 %WAAS-DHCP-5-191000: Enabling CMS with CDM: fit1-cml.myfit.local
2012 Nov 15 08:26:11 FIT1-OFF2-574 cfg_bin_autoreg_runcms: %WAAS-AUTOREG-5-111020: Primary interface
2012 Nov 15 08:26:11 FIT1-OFF2-574 cfg_bin_autoreg_runcms: %WAAS-AUTOREG-5-111024: Central Manager

```

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If Cisco WAAS Auto Deploy fails, debugging can be done via the console connection.

To enable debugging, issue the following commands:

```
NO-HOSTNAME#debug dhcp
NO-HOSTNAME#config t
NO-HOSTNAME(config)#logging console enable
NO-HOSTNAME(config)#logging console priority debug
```

Once debugging is enabled, toggle Auto Deploy off, then back on.

```
NO-HOSTNAME#config t
NO-HOSTNAME(config)#no auto-register enable
NO-HOSTNAME(config)#auto-register enable
```

After toggling Auto Deploy, debug messages should be printed to syslog.txt:

```
2012 Oct 8 07:04:25 FIT1-OFF2-574 config: %WAAS-PARSER-6-350232: CLI_LOG log_cli_command: auto-re
FIT1-OFF2-574(config)#2012 Oct 8 07:04:25 FIT1-OFF2-574 dhclient: %WAAS-DHCP-3-191000: teql0: unk
2012 Oct 8 07:04:25 FIT1-OFF2-574 %WAAS-DHCP-5-191000: Script called with reason: PREINIT
2012 Oct 8 07:04:26 FIT1-OFF2-574 dhclient: %WAAS-DHCP-3-191000: teql0: unknown hardware address
2012 Oct 8 07:04:26 FIT1-OFF2-574 dhclient: %WAAS-DHCP-7-191000: 000: 01 01 06 00 ae 97 26 53 00
2012 Oct 8 07:04:26 FIT1-OFF2-574 dhclient: %WAAS-DHCP-7-191000: 010: 00 00 00 00 00 00 00 00 00
2012 Oct 8 07:04:26 FIT1-OFF2-574 dhclient: %WAAS-DHCP-7-191000: 020: 7d 1c 00 00 00 00 00 00 00
2012 Oct 8 07:04:26 FIT1-OFF2-574 dhclient: %WAAS-DHCP-7-191000: 030: 00 00 00 00 00 00 00 00 00
2012 Oct 8 07:04:26 FIT1-OFF2-574 dhclient: %WAAS-DHCP-7-191000: 040: 00 00 00 00 00 00 00 00 00
2012 Oct 8 07:04:26 FIT1-OFF2-574 dhclient: %WAAS-DHCP-7-191000: 050: 00 00 00 00 00 00 00 00 00
2012 Oct 8 07:04:26 FIT1-OFF2-574 dhclient: %WAAS-DHCP-7-191000: 060: 00 00 00 00 00 00 00 00 00
2012 Oct 8 07:04:26 FIT1-OFF2-574 dhclient: %WAAS-DHCP-7-191000: 070: 00 00 00 00 00 00 00 00 00
2012 Oct 8 07:04:26 FIT1-OFF2-574 dhclient: %WAAS-DHCP-7-191000: 080: 00 00 00 00 00 00 00 00 00
2012 Oct 8 07:04:26 FIT1-OFF2-574 dhclient: %WAAS-DHCP-7-191000: 090: 00 00 00 00 00 00 00 00 00
2012 Oct 8 07:04:26 FIT1-OFF2-574 dhclient: %WAAS-DHCP-7-191000: 0a0: 00 00 00 00 00 00 00 00 00
2012 Oct 8 07:04:26 FIT1-OFF2-574 dhclient: %WAAS-DHCP-7-191000: 0b0: 00 00 00 00 00 00 00 00 00
2012 Oct 8 07:04:26 FIT1-OFF2-574 dhclient: %WAAS-DHCP-7-191000: 0c0: 00 00 00 00 00 00 00 00 00
2012 Oct 8 07:04:26 FIT1-OFF2-574 dhclient: %WAAS-DHCP-7-191000: 0d0: 00 00 00 00 00 00 00 00 00
2012 Oct 8 07:04:26 FIT1-OFF2-574 dhclient: %WAAS-DHCP-7-191000: 0e0: 00 00 00 00 00 00 00 00 00
2012 Oct 8 07:04:26 FIT1-OFF2-574 dhclient: %WAAS-DHCP-7-191000: 0f0: 35 01 03 36 04 07 01 f7 31
2012 Oct 8 07:04:26 FIT1-OFF2-574 dhclient: %WAAS-DHCP-7-191000: 100: 06 01 03 0f 06 0c 2b 3c 08
2012 Oct 8 07:04:26 FIT1-OFF2-574 dhclient: %WAAS-DHCP-7-191000: 110: 4e 3d 08 43 49 53 43 4f 43
2012 Oct 8 07:04:26 FIT1-OFF2-574 dhclient: %WAAS-DHCP-7-191000: 120: 00 00 00 00 00 00 00 00 00
2012 Oct 8 07:04:26 FIT1-OFF2-574 dhclient: %WAAS-DHCP-5-191000: DHCPREQUEST on eth0 to 255.255.2
2012 Oct 8 07:04:26 FIT1-OFF2-574 dhclient: %WAAS-DHCP-5-191000: DHCPACK from 7.1.247.49
2012 Oct 8 07:04:26 FIT1-OFF2-574 %WAAS-DHCP-5-191000: Script called with reason: REBOOT
2012 Oct 8 07:04:26 FIT1-OFF2-574 %WAAS-DHCP-5-191000: Configuring hostname: FIT1-OFF2-574
2012 Oct 8 07:04:26 FIT1-OFF2-574 %WAAS-DHCP-5-191000: Configuring new IP address: 7.1.247.50 255
2012 Oct 8 07:04:26 FIT1-OFF2-574 %WAAS-DHCP-5-191000: Configuring default gateway: 7.1.247.49
2012 Oct 8 07:04:26 FIT1-OFF2-574 %WAAS-DHCP-5-191000: Configuring domain name: myfit.local
2012 Oct 8 07:04:26 FIT1-OFF2-574 %WAAS-DHCP-5-191000: Configuring nameserver: 7.1.240.10
2012 Oct 8 07:04:27 FIT1-OFF2-574 Nodemgr: %WAAS-NODEMGR-5-330084: [Nodemgr_Admin] requests resta
2012 Oct 8 07:04:27 FIT1-OFF2-574 Nodemgr: %WAAS-NODEMGR-5-330032: Stopping service: 'nscd'.
2012 Oct 8 07:04:27 FIT1-OFF2-574 Nodemgr: %WAAS-NODEMGR-5-330036: Stop service 'nscd' using: '/r
2012 Oct 8 07:04:27 FIT1-OFF2-574 %WAAS-DHCP-5-191000: Enabling CMS with CDM: cml.myfit.local.
2012 Oct 8 07:04:27 FIT1-OFF2-574 cfg_bin_autoreg_runcms: %WAAS-AUTOREG-5-111020: Primary interfa
2012 Oct 8 07:04:27 FIT1-OFF2-574 cfg_bin_autoreg_runcms: %WAAS-AUTOREG-5-111022: Device is alrea
```