

用SUP8E 4500无线开始：初始安装和排除故障

Contents

[Introduction](#)

[背景信息](#)

[Get Started](#)

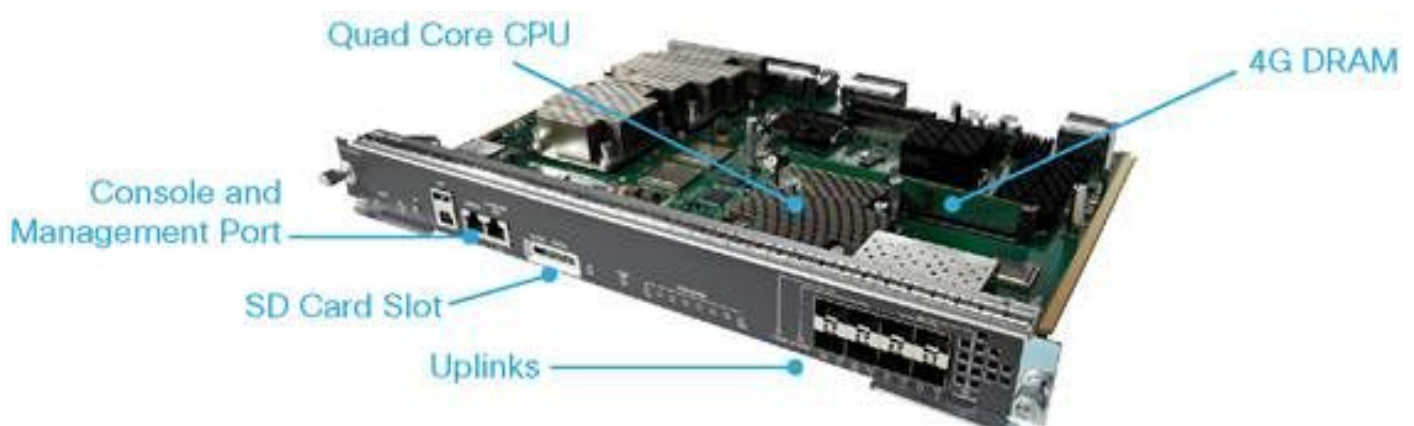
1. [检查ROMmon版本](#)
2. [检查镜像](#)
3. [验证VSS](#)
4. [保证交换机运行在Install模式和不在套件模式下](#)
5. [许可证必须是Entservices或IP BASE](#)
6. [子卡在Install模式而不是套件模式只过来](#)
7. [最大支持的AP/Clients](#)
8. [AP连接](#)
9. [同5760/3850/3650一样从这里](#)

Introduction

本文描述基本的清单处理为了获得4500个SUP8E正在运行无线。本文不着重如何配置在Sup8E的无线控制器，然而相当着重事验证前面，并且那平台特殊化。一旦这执行，此平台主要将正常运行类似其他聚合的接入交换机，并且其他文件和指南可以被跟随。

背景信息

Cisco Catalyst® 4500E Supervisor引擎8-E是在单个平台提供在配线之间的充分的收敛和无线网络企业类交换引擎的下一代。此新的Cisco®统一访问数据层面(UADP) Application-specific integrated circuit (ASIC)供给无线收敛动力并且帮助enable (event)统一配线无线策略执行、应用程序公开性、灵活性和应用程序最优化。



Get Started

为了获得无线正在运行在此设备，您必须保证这些需求是满足的：

1. 检查ROMmon版本
2. 镜像必须是K9 - crypto
3. 虚拟交换系统(VSS)只支持3.8及以后(仅双重SUP)
4. 交换机在Install模式必须运行
5. 许可证必须是Entservices或IP BASE
6. 在套件模式下，子卡不过来(仅在Install模式)
7. 最大数量支持的接入点(APs)是50/Max支持的客户端- 2000年
8. AP在同一个机箱/Supervisor (Sup)必须终止
9. 一旦获得这些，配置的其余类似于所有聚合的接入交换机(3850/5760...)

请查看他们中的每一个从输出方面。

1. 检查ROMmon版本

Note:它必须是15.1(Xr)SG4 [X -从1]开始的高编号或。

```
BGL.I.15-4500-2#sh version
ROM: 15.1(1r)SG4
BGL.I.15-4500-2 uptime is 6 minutes
System returned to ROM by power-on
Running default software
Jawa Revision 3, RadTrooper Revision 0x0.0x41, Conan Revision 0x1449
Last reload reason: power-on
```

2. 检查镜像

Note:它一定运行3.7或以后，并且必须是K9加密镜像。没什么工作。

加密镜像如下所示:

```
4500-2#sh version
Cisco IOS® Software, IOS®-XE Software, Catalyst 4500 L3 Switch Software (cat4500es8-
UNIVERSALK9-M), Version 03.07.00E RELEASE SOFTWARE (fc4)
Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2014 by Cisco Systems, Inc.
Compiled Sun 07-Dec-14 17:59 by prod_rel_team
```

非加密镜像如下所示:

```
Cisco IOS® Software, IOS®-XE Software, Catalyst 4500 L3 Switch Software (cat4500es8-UNIVERSAL-
M), Version 03.03.00.XO RELEASE SOFTWARE (fc2)
Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2013 by Cisco Systems, Inc.
Compiled Wed 14-Aug-13 09:51 by prod_rel_team
```

3. 验证VSS

前3.8工作情况：

Note:如果VSS是启用的，无线命令不存在反之亦然，如果无线命令是启用的，VSS命令不存在。

```
4500-2#sh switch virtual
Switch Mode : Standalone
Not in Virtual Switch mode due to:
Domain ID is not configured
```

开始IOS® XE 3.8及以后：

Note:双重SUP VSS用无线操作支持。然而，四元组SUP VSS没有用无线支持。

4. 保证交换机运行在Install模式和不在套件模式下

Bundle Mode - bootsystem pointing to .bin image (no wireless commands)

Install Mode - Bootsistem pointing to package.conf instead of Bin

BGL.I.15-4500-2#dir bootflash:

在套件模式下：

Directory of bootflash:/

```
81602 -rw- 181583336 Oct 7 2014 09:18:45 +00:00 cat4500es8-universal.SPA.03.03.00.XO.151-
1.XO.bin
81603 -rw- 181601128 Nov 18 2014 18:28:43 +00:00 cat4500es8-universal.SPA.03.03.02.XO.151-
1.XO2.bin
81604 -rw- 483862876 Dec 31 2014 20:21:43 +00:00 cat4500es8-universalk9.SPA.03.07.00.E.152-
3.E.bin
```

1708220416 bytes total (857677824 bytes free)

This is how the boot looks like

4500-2#sh boot

```
-----
Switch 1
-----
```

Current Boot Variables:

```
BOOT variable = flash:cat4500es8-universal.SPA.03.07.00.E.152-3.E.bin;
```

Boot Variables on next reload:

```
BOOT variable = flash:cat4500es8-universal.SPA.03.07.00.E.152-3.E.bin;
```

```
Allow Dev Key = yes
```

```
Manual Boot = no
```

```
Enable Break = no
```

在Install模式：

BGL.I.20-4500-1#dir bootflash:

Directory of bootflash:/

```
81602 -rwx 199051336 Oct 7 2014 02:00:02 +00:00 cat4500es8-universalk9.SPA.03.06.00.E.152-
2.E.bin
81603 -rw- 215049252 Dec 29 2014 07:07:31 +00:00 cat4500es8-universal.SPA.03.07.00.E.152-
3.E.bin
    16 drwx 4096 Dec 29 2014 07:14:26 +00:00 virtual-instance
    18 drwx 4096 Dec 29 2014 07:14:26 +00:00 virtual-instance-stby-sync
81606 drwx 4096 Dec 30 2014 01:52:34 +00:00 wnweb_store
```

```

21 -rw- 126880776 Dec 30 2014 01:34:38 +00:00 cat4500es8-base.SPA.03.07.00E.pkg
57125 -rw- 82245776 Dec 30 2014 01:34:45 +00:00 cat4500es8-dc-base.SPA.03.07.00E.pkg
57126 -rw- 7019480 Dec 30 2014 01:34:47 +00:00 cat4500es8-dc-drivers.SPA.03.07.00E.pkg
57127 -rw- 35161204 Dec 30 2014 01:34:46 +00:00 cat4500es8-dc-infra.SPA.03.07.00E.pkg
81604 -rw- 483862876 Dec 30 2014 01:24:49 +00:00 cat4500es8-universalk9.SPA.03.07.00.E.152-
3.E.bin
57128 -rw- 26876920 Dec 30 2014 01:34:47 +00:00 cat4500es8-dc-platform.SPA.03.07.00E.pkg
57129 -rw- 4225328 Dec 30 2014 01:34:39 +00:00 cat4500es8-firmware.SPA.03.07.00E.pkg
57130 -rw- 54192 Dec 30 2014 01:34:39 +00:00 cat4500es8-infra.SPA.03.07.00E.pkg
57131 -rw- 1987552 Dec 30 2014 01:34:47 +00:00 cat4500es8-platform.SPA.03.07.00E.pkg
57132 -rw- 88661144 Dec 30 2014 01:34:42 +00:00 cat4500es8-universalk9.SPA.152-3.E.pkg
57133 -rw- 110742524 Dec 30 2014 01:34:51 +00:00 cat4500es8-wcm.SPA.10.3.100.0.pkg
20 -rw- 1724 Dec 30 2014 01:35:59 +00:00 packages.conf
81605 ---- 11679 Dec 31 2014 23:15:15 +00:00 dc_console_log-20141230-014159-UTC

```

1708220416 bytes total (321839104 bytes free)
BGL.I.20-4500-1#

```

4500-2#sh run | i boot
boot-start-marker
boot system bootflash:packages.conf
boot-end-marker
BGL.I.15-4500-2#sh boot
BOOT variable = bootflash:packages.conf,12;
CONFIG_FILE variable does not exist
BOOTLDR variable does not exist
Configuration register is 0x2102

```

Note:配置寄存器是0x2102是子卡的一个需求获得发现。

Note:4500(config)#config寄存器 ? <0x0-0xFFFF>设置寄存器编号

[如何转换套件安装](#)

5. 许可证必须是Entservices或IP BASE

Note:一旦enable (event) Entservices和重新启动，您能然后看到在正确对使用(RTU)的AP计数。

```

BGL.I.15-4500-2#sh license right-to-use
License Store: Primary License Storage
License Store: Dynamic License Storage
StoreIndex: 1 Feature: entservices Version: 1.0
    License Type: PermanentRightToUse
    License State: Inactive
    License Count: Non-Counted
StoreIndex: 3 Feature: ipbase Version: 1.0
    License Type: PermanentRightToUse
    License State: Inactive
    License Count: Non-Counted
StoreIndex: 4 Feature: lanbase Version: 1.0
    License Type: PermanentRightToUse
    License State: Active, Not in Use, EULA not accepted
    License Count: Non-Counted
StoreIndex: 6 Feature: apcount Version: 1.0
    License Type: PermanentRightToUse

```

```
License State: Inactive
License Count: 0/0
```

```
4500-2#license right-to-use activate entservices acceptEula (Requires Reboot)
```

```
BGL.I.15-4500-2#sh license right-to-use
License Store: Primary License Storage
License Store: Dynamic License Storage
StoreIndex: 1 Feature: entservices Version: 1.0
    License Type: PermanentRightToUse
    License State: Active, In Use
    License Count: Non-Counted
StoreIndex: 3 Feature: ipbase Version: 1.0
    License Type: PermanentRightToUse
    License State: Inactive
    License Count: Non-Counted
StoreIndex: 4 Feature: lanbase Version: 1.0
    License Type: PermanentRightToUse
    License State: Active, Not in Use, EULA not accepted
    License Count: Non-Counted
StoreIndex: 6 Feature: apcount Version: 1.0
    License Type: PermanentRightToUse
    License State: Inactive
    License Count: 0/0
```

6. 子卡在Install模式而不是套件模式只过来

Note:如果设备在套件模式下运行，对于无线是必需的子卡不过来。这可以用show module命令验证。女儿卡故障考虑作为SUP故障，并且也许要求RMA。

当设备引导时，您能看到：

```
Cisco IOS®-XE software, Copyright (c) 2005-2014 by Cisco Systems, Inc.
All rights reserved. Certain components of Cisco IOS-XE software are
licensed under the GNU General Public License ("GPL") Version 2.0. The
software code licensed under GPL Version 2.0 is free software that comes
with ABSOLUTELY NO WARRANTY. You can redistribute and/or modify such
GPL code under the terms of GPL Version 2.0.
(http://www.gnu.org/licenses/gpl-2.0.html) For more details, see the
documentation or "License Notice" file accompanying the IOS-XE software,
or the applicable URL provided on the flyer accompanying the IOS-XE
software.
```

```
Daughter Card is booting.. Please stand by.....
```

```
Daughter Card is ready, continuing in wireless mode..
```

```
BGL.I.20-4500-1#sh module
Chassis Type : WS-C4510R+E
```

```
Power consumed by backplane : 40 Watts
```

Mod	Ports	Card Type	Model	Serial No.
2	2	1000BaseX (GBIC)	WS-X4302-GB	JAE10307QDW

3	48	10/100/1000BaseT POE E Series	WS-X4648-RJ45V-E	JAE1211B9K2
4	6	1000BaseX (GBIC)	WS-X4306	JAE053700PA
5	12	Sup 8-E 10GE (SFP+), 1000BaseX (SFP)	WS-X45-SUP8-E	CAT1814L3A7

M	MAC addresses	Hw	Fw	Sw	Status
2	0015.62e6.e2b8 to 0015.62e6.e2b9	3	2		Ok
3	001e.7af2.95f0 to 001e.7af2.961f	1	0		Ok
4	0004.4dfb.87c4 to 0004.4dfb.87c9	2	0		Ok
5	70ca.9b5e.6600 to 70ca.9b5e.660b	1.1	15.1(1r)SG4	03.07.00E	Ok

Mod	Redundancy role	Operating mode	Redundancy status
5	Active Supervisor	RPR	Active

Mod	Submodule	Model	Serial No.	Hw	Status
5	Daughter Card	WS-UA-SUP8E	CAT1814L5H1	1.0	Ok

7. 最大支持的AP/Clients

最大支持的APs -50/Max支持的客户端- 2000年

8. AP连接

保证AP在同样chassis/SUP AP终止不会否则加入交换机无线控制器。

正如3850和3650，APs在接入端口必须直接地被连接4507为了加入Sup8控制器。

9. 同5760/3850/3650一样从这里

Note:一旦更早的被提及的事是已处理，其余是类似的为了获得3850/5760正在运行。

如镜像所显示，GUI是。

The screenshot shows the Cisco Wireless Controller GUI. The top navigation bar includes Home, Monitor, Configuration, Administration, and Help. The main content area is divided into several sections:

- System Summary:** Displays system time (20:24:29.441 UTC Wed Jan 7 2015), software version (03.07.00E RELEASE SOFTWARE (fc4)), system name (BGL.I.15-4500-2), system model (WS-C4506-E), up time (14 hours, 58 minutes), wireless management IP (10.106.48.150), network states (802.11 a/n/ac and b/g/n are Enabled), mobility role (MA), and software activation (Detail).
- Access Point Summary:** A table showing the status of APs:

	Total	Up	Down
802.11a/n/ac Radios	0	0	0
802.11b/g/n Radios	0	0	0
All APs	0	0	0
- Client Summary:** A link to view client statistics.
- Protocol Statistics:** A link to view protocol statistics.
- Search:** A search bar for Username with a Search button.
- Top WLANs:** A table showing Profile Name and Number of Clients.
- Rogue APs:** A table showing Active Rogue APs (0), Active Rogue Clients (0), and Adhoc Rogues (0), each with a Detail link.