VSP 9012 High Speed Cooling Module Minimum Software Requirements

Release 4.0
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Avaya introduces a new high-speed Input/Output (I/O) cooling module (9012FCHS) for the Avaya Virtual Services Platform 9012 chassis to support the high-density 10 Gigabit Ethernet, as well as the 40 Gigabit Ethernet, I/O modules. Virtual Services Platform 9012 uses the 9012FCHS in the front I/O cooling module slots. The high-speed cooling module is available as a field replaceable unit (FRU), (EC1411004–E6).

Important:

The minimum software revision that supports the 9012FCHS is Release 3.4.2.2. If the CP module runs an earlier software release, you must upgrade the software in order for the chassis to recognize the 9012FCHS, and to provide the proper cooling airflow to the installed modules. If you use the 9012FCHS without the correct software release the following messages appear at the console:

```
GlobalRouter HW ERROR Unknown module in slot IO-FAN 1. Module type: 0x40ae3300
GlobalRouter HW INFO Detected Unknown(0x40ae3300) module (Serial#: LBNNTMRJ00006Y) in
slot IO-FAN 1
GlobalRouter HW WARNING Reset Detected for module Unknown(0x40ae3300) in slot IO-FAN 1
```

Warning:

To prevent damage to equipment, do not allow a chassis to operate for an extended period of time with a cooling module removed. Keep a failed cooling module installed in the chassis until you have a replacement module or keep a replacement cooling module available for immediate replacement.

The Virtual Services Platform 9012 chassis continues to support the existing 9012FC I/O cooling modules (EC1411001-E6) used with first generation I/O modules in all software releases.

Note:

You can use either two 9012FCHS I/O cooling modules or two 9012FC I/O cooling modules in the Virtual Services Platform 9012. Do not use the 9012FCHS and the 9012FC I/O cooling modules together.

The second generation I/O modules that are available beginning with software Release 4.0 will require the use of 9012FCHS I/O cooling modules. The second generation I/O modules will remain offline in the Virtual Services Platform 9012 chassis until you install both 9012FCHS I/O cooling modules.

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For information about how to remove or install a cooling module, see *Installing Cooling Modules in Avaya Virtual Services Platform 9000,* NN46250-302.

For information about how to perform a software upgrade, see *Applying Upgrades and Patches to Avaya Virtual Services Platform 9000,* NN46250-400.

Important:

The following table describes the supported configuration for the 9012FCHS I/O cooling modules for first generation, second generation, and a mix of first and second generation I/O modules.

I/O cooling modules installed	First generation, second generation, and a mix of first and second generation I/O modules expected behavior
Two 9012FCHS I/O cooling module	First and second generation I/O modules run as expected and only shut down if their thermal sensors exceed the temperature threshold.

The following table describes the supported configuration for first generation modules only.

I/O cooling modules installed	First generation I/O modules expected behavior
Two 9012FC I/O cooling modules or Two 9012FCHS I/O cooling modules	First generation I/O modules run as expected, and only shut down if their thermal sensors are greater than the temperature threshold.

The following table describes non-supported configurations. Avaya allows the following configurations for short time periods to install or swap I/O cooling modules.

I/O cooling modules installed	First generation I/O modules expected behavior	Second generation I/O modules expected behavior
One 9012FCHS I/O cooling module and one 9012FC I/O cooling module (Mixed installation) or One 9012FC I/O cooling module	First generation I/O modules run as expected, and only shut down if their thermal sensors are greater than the temperature threshold. Avaya provides this mode to permit a time window for you to install or swap I/O cooling modules.	Second generation I/O modules shut down.
No I/O cooling modules or One 9012FCHS I/O cooling module	First generation I/O modules run as expected and only shut down if their thermal sensors exceed the temperature threshold. Avaya provides this mode to permit a time window for you to install or swap I/O cooling modules.	Second generation I/O modules run as expected and only shut down if their thermal sensors exceed the temperature threshold. Avaya provides this mode to permit a time window for you to install or swap I/O cooling modules.