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My Check Point blog – Notes from a CCSE+



## Appliance hardware - Updated 25th October 2012

Here is a short list of the hardware used in Check Point appliances. The numbers show SPU and the maximum throughput for firewall, VPN and IPS traffic according to Check Point.

### Check Point 2012 Appliance series

| Modell | SPU  | FW | VPN | IPS | CPU                                    | RAM |
|--------|------|----|-----|-----|--|-----|
| 21400  | 2003 | 50 | 7   | 21  | 2x Intel Xeon E5645 2.40GHz (Six-Core) | 6   |
| 12600  | 1861 | 30 | 7   | 17  | 2x Intel Xeon E5645 2.40GHz (Six-Core) | 6   |
| 12400  | 1046 | 25 | 3.5 | 12  | Intel Xeon E5645 2.40GHz (Six-Core)    | 4   |
| 12200  | 738  | 15 | 2.5 | 8   | Intel Core i5 750 2.67GHz (QuadCore)   | 4   |
| 4800   | 623  | 11 | 2   | 6   | Intel Core2 Quad CPU Q9400 2.66GHz     | 4   |
| 4600   | 374  | 9  | 1.5 | 4   | Pentium Dual-Core E6500 2.93GHz        | 4   |
| 4400   | 223  | 5  | 1.2 | 3.5 | Intel Celeron Dual-Core E3400 2.6 GHz  | 4   |
| 4200   | 114  | 3  | 0.4 | 2   | Intel Atom D525 1.80GHz Dual-Core      | 4   |
| 2200   | 114  | 3  | 0.4 | 2   | Intel Atom D525 1.80GHz Dual-Core      | 2   |

### Check Point Smart-1 Appliance series

| Modell      | CPU                                      | RAM | HDD    |
|-------------|--|-----|--------|
| Smart-1 5   | Intel Celeron M 1.50GHz                  | 2   | 500 GB |
| Smart-1 25b | Intel Core2 Duo Processor E7400 2.80 GHz | 4   | 2 TB   |
| Smart-1 50  | Intel Xeon E5410 2.33GHz (DualCore)      | 4   | 2 TB   |

The details can be determined from the command line.

For the CPU details use `cat /proc/cpuinfo`, for the RAM details use `cat /proc/meminfo`.

If you have more details on appliances, feel free to send them to [tobias@lachmann.org](mailto:tobias@lachmann.org)

All other values are taken from official Check Point materials.

If you take the appliance hardware together with the throughput stated by Check Point, it might give you an idea how your OpenServer hardware will perform in comparison.

Thanks to all the contributors for their info!

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Blog of Patrick Waters, CCSE, CCMSE+

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Blog of the famous Phoneboy

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Tobias Lachmann

Category: [Appliance](#)

October 25th, 2012

6 comments

Tobias Lachmann

[Blog of Valeri Loukine, CCMA](#)[Blog of Yuri Slobodyanyuk, CCSE+](#)[CPshared Forum](#)

## [blog.lachmann.org](http://blog.lachmann.org) - Notes from a CCSE+ - RSS feed

[For those with old UTM-1 appliance out there](#) January 21, 2013

The UTM-1 appliances had a horrible hard disk layout in the beginning – or a horrible LVM layout, to be more correct. This has changed over the versions for the better and now it suits everyone. But if you still have an appliance with space problems, you may consider using Check Point latest tool. In [...]

*Tobias Lachmann*

[Migrate export from a Secondary Management Server](#) January 15, 2013

Recently I needed to do a migrate export from a Security Management. Normally this is a procedure without any problems and works quite well. However – this time the only system that was left of the Security Management was the Secondary Management Server. The first installed Security Management is always the Primary Management Server, the [...]

*Tobias Lachmann*

[Congratulations to Royi](#) January 4, 2013

I just found out on LinkedIn that one of my favorite Check Point TAC engineers was promoted team leader of escalation support team. We have been doing some cases over the past years and I feel lucky for him. Congratulations to your new position, Royi! Tobias Lachmann [...]

*Tobias Lachmann*

[New Early Availability Program for Check Point E80.41 VPN MAC](#) January 3, 2013

Check Point now has a new EA program for E80.41 VPN MAC client. As stated by Check Point “This release aligns Endpoint Security VPN for Mac with Endpoint Security E80.41 for Mac. You can upgrade Endpoint Security VPN to Endpoint Security, for more Endpoint Security software blades and functionality.” You can register over your UserCenter [...]

*Tobias Lachmann*

[Check Point Performance Sizing Utility](#) January 3, 2013

Check Point has published a tool which is called “Performance Sizing Utility” or “CPSizeMe” with sk88160. It is the successor of the Check Point Performance Evaluation Utility from beginning of 2012 (which was used to gather real-live data for the validation of the SPU metric). CPSizeMe depends on the CPuploader tool which it utilizes for [...]

*Tobias Lachmann*

[New feature in SecureKnowledge – Suggested Solutions](#) December 18, 2012

The Check Point Secure Knowledge has a nice new feature which is worth noticing. When you view a SecureKnowledge article there will be a

## 6 Responses

**Michael says:**

Nice work, again. 😊

But it should be noted that these are no real world throughput figures, especially with IPS.

May 10, 2012 at 14:23

[Reply](#)**Jochen says:**

Hi Michael,  
You're right. But they are much more realistic as others.  
Cheers,  
Jochen

December 3, 2012 at 21:33

[Reply](#)**Valeri Loukine says:**

great job, tobias!

May 11, 2012 at 15:55

[Reply](#)**Jakesays says:**

Here are some IP Appliances info:  
IP1287 1 x Intel 2.66 GHz Xeon processor QUAD Core  
IP2457 2 x Intel 2.66 GHz Xeon processor QUAD Core

June 6, 2012 at 20:19

[Reply](#)**Yury Nemchin says:**

As far as I know, most of CP appliances is based on products of two OEM manufacturers. Detailed datasheets are available on their websites:

<http://www.portwell.com/products/ca.asp#ENTERPRISE>

[http://www.lannerinc.com/x86\\_Network\\_Appliances](http://www.lannerinc.com/x86_Network_Appliances)

October 21, 2012 at 00:45

[Reply](#)**Jochen says:**

Hi, here's a info from a 61000' SGM:  
/proc/cpuinfo  
processor : 11

```

vendor_id : GenuineIntel
cpu family : 6
model : 44
model name : Intel(R) Xeon(R) CPU E5645 @ 2.40GHz
stepping : 2
cpu MHz : 2400.127
cache size : 12288 KB
(...)
[Expert@61K-ch01-06]# cat /proc/meminfo
MemTotal: 24544192 kB
(...)
[Expert@61K-ch01-06]# uname -a
Linux 61K-ch01-06 2.6.18-92cp86_64 #1 SMP Tue Jun 12 19:27:47 IDT 2012 x86_64
x86_64 x86_64 GNU/Linux
[Expert@61K-ch01-06]# fw ver -k
This is Check Point VPN-1(TM) & FireWall-1(R) 61000 R75.050 – Build 104
kernel: 61000 R75.050 – Build 104

```

December 3, 2012 at 21:27

[Reply](#)

display of related articles that have been read by users that also viewed the current displayed one. A useful feature that will help you to find other articles that you might [...]

*Tobias Lachmann*

[New Error in GAIA Backup](#) December 17, 2012

While working with R75.40 you may have stumbled across sk79020. The SecureKnowledge article describes how SCP transfers of backup files are failing because the installed openssh package does not support the needed command line switch "-u". There is a fix available for the error described in sk79020 that consists of new openssh packages for GAIA. [...]

*Tobias Lachmann*

[Check Point Experience CXP 2013 in Barcelona](#) December 16, 2012

What has been a rumor is now confirmed: CPX 2013 will again be in Barcelona. Personally I have no ideas why Barcelona again.... nice weather the last time, but despite from that the location wasn't THAT great. Anyway, European CPX will be beginning of April 2013, make sure to register soon. And for all the [...]

*Tobias Lachmann*

[Dealing with Identity Awareness – available Fixes](#) December 9, 2012

Just a quick note for those of you that are using Identity Awareness. We see some errors in IA for which hotfixes are available. For R75.40 see sk74680 - R75.40 Identity Awareness Jumbo Hotfix – Logs, Policy, Sync For R75.45 see sk87700 - Identity Awareness – Stability Fixes and Performance Enhancements Tobias Lachmann [...]

*Tobias Lachmann*

[New version of Hardware Compatibility List \(HCL\) available](#) December 9, 2012

There a new version of Check Point Hardware Compatibility List (HCL) available. We have a better usability as you can filter the list with various options, like vendor or date of certification. The list for the certified systems in the last year is rather short but has the most important vendors listed. When it comes [...]

*Tobias Lachmann*

[No support for appliance accessories](#) December 9, 2012

In my last post I wrote about support costs for a 2200 appliance rack mount kit that showed in a quote. After getting back to Check Point they confirmed quickly that this was an error as with the slide rail kit. No support costs will be charged for appliance accessories. I you already have a [...]

*Tobias Lachmann*

[Support cost for Rack Mount Kit](#) December 5, 2012

It is a year ago that I wrote a post about Check Point charging support costs for slide rail kits on appliances. Today I discovered that the Rack Mount Kit for 2200 appliances also has support costs when you use the quoting tool. I can only hope that this one slipped through the QA of [...]

*Tobias Lachmann*

[Installation failed; reason – load on module failed, failed to load security policy](#) December 3, 2012

Recently I tried a policy installation on a

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Security Gateway appliance which failed with the message: Installation failed; reason - load on module failed, failed to load security policy From my experience I know that a cpstop ; cpstart normally solves this problem. But since I was dealing with a remote site gateway which also [...]

*Tobias Lachmann*

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[Configuring SNMP on GAIA](#) November 28, 2012

My post from October 2011 about configuring SNMP settings on Secure Platform (SPLAT) is one of the most read in this blog. Now I want to add a new How-To for configuring SNMP on Check Point GAIA – which is quite simple. Just select SNMP menu item from System Management menu. Then check the box [...]

*Tobias Lachmann*

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[Configuring BGP in High Availability Environments with GAIA](#) November 22, 2012

In my last post I wrote a quick How-To on configuring BGP between a Security Gateway and a Cisco Router. Today we're going to extend this setup to full High Availability. As shown in the overview picture, we now have two routers involved in the BGP. These two routers provide a HSRP (Hot Standby Router [...]

*Tobias Lachmann*

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[Configuring BGP between Router and Security Gateway running GAIA](#) November 18, 2012

Today we'll have a look at advanced routing and how we can exchange routing information using the BGP protocol between a Check Point Security Gateway running GAIA and a Cisco router. It is common practice to use Internal Routing Protocols (IGPs) like ISIS or OSPF for carrying your infrastructure addresses and Border Gateway Protocol (BGP) [...]

*Tobias Lachmann*

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[New blog added](#) November 7, 2012

I added a link to the Blog of Michael Endrizzi from Midpoint Technology. Nice reading. Tobias Lachmann [...]

*Tobias Lachmann*

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[Appliance hardware – Updated 25th October 2012](#) October 25, 2012

Here is a short list of the hardware used in Check Point appliances. The numbers show SPU and the maximum throughput for firewall, VPN and IPS traffic according to Check Point. Check Point 2012 Appliance series Modell SPU FW VPN IPS CPU RAM 21400 2003 50 7 21 2x Intel Xeon E5645 2.40GHz (Six-Core) 6 [...]

*Tobias Lachmann*

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[Performance impact of IPv6](#) October 24, 2012

At the Mini CPX here in Cologne the guys from Spirent presented some performance testing along with Check Point. Really interesting stuff and cool technology! During the presentation I wondered how much impact we would see on Check Point firewalls when instead of IPv4 packets IPv6 packets are processed. Apparently, when it comes to the [...]

*Tobias Lachmann*

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[Mini CPX in Cologne](#) October 23, 2012

Just arrived in Cologne tonight for the Mini CPX hosted by Check Point

Germany. Hope to see some of you  
guys there! Tobias Lachmann [...]  
*Tobias Lachmann*

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