



# A quick guide to the Linux evaluations

Stephan Mueller, Fiona Pattinson

atsec information security corporation  
9130 Jollyville Road, Suite 260  
Austin, TX 78759  
Tel: +1 512 615 7300  
Fax: +1 512 615 7301  
[www.atsec.com](http://www.atsec.com)

Last update: 2010-06-28  
Version: 0.1

Classification: public  
©2010 atsec information security corporation

Status: PUBLISHED  
Page 1 of 9



Dist	Version	Update	Evaluated Configuration	EAL	PP	MRA	date	Report
Red Hat	RHEL3 AS	U3	HP AMD Opteron processor based servers: HP Proliant DL product line (except Intel based systems) HP Intel Pentium and Xeon processor based servers: HP Proliant DL product line (except AMD based systems) HP Proliant ML product line HP Proliant BL product line HP Carrier Grade cc product line HP Intel Itanium2 processor based servers: HP Integrity Superdome product line HP Integrity rx product line HP Integrity cx product line HP Intel Itanium2 processor based workstation: HP zx workstation product line	3+	CAPP	CCRA SOGIS	2004-09	<a href="http://www.bsi.bund.de/zertifiz/zert/reporte/0273a.pdf">http://www.bsi.bund.de/zertifiz/zert/reporte/0273a.pdf</a>
Red Hat	RHEL3 AS	U2	IBM xSeries, model x335 IBM zSeries, model z900 (The TOE executes in VM 4.3 logical partition) IBM iSeries, model 825 machine type (9406)(OS/400 V5R2 LPAR) IBM pSeries, model 630 IBM eServer, model 325 (based on AMD64 (Opteron) processor)	3+	CAPP	CCRA SOGIS	2004-08	<a href="http://www.bsi.bund.de/zertifiz/zert/reporte/0257a.pdf">http://www.bsi.bund.de/zertifiz/zert/reporte/0257a.pdf</a>
Red Hat	RHEL3 WS	U2	IBM xSeries, model x335	3+	CAPP	CCRA SOGIS	2004-08	<a href="http://www.bsi.bund.de/zertifiz/zert/reporte/0259a.pdf">http://www.bsi.bund.de/zertifiz/zert/reporte/0259a.pdf</a>



Dist	Version	Update	Evaluated Configuration	EAL	PP	MRA	date	Report
Red Hat	RHEL3 WS	U3	HP Intel Pentium 4 processor based workstations: HP nw laptops HP xw workstation product line HP Compaq D530 HP Compaq D330 HP Compaq D220 HP Intel Xeon based workstations: HP xw workstation product line	3+	CAPP	CCRA SOGIS	2004-09	<a href="http://www.bsi.bund.de/zertifiz/zert/reporte/0274a.pdf">http://www.bsi.bund.de/zertifiz/zert/reporte/0274a.pdf</a>
Red Hat	RHEL3 WS	U5	Unisys ES7000 Hardware models 405, 410, 420, 430, and 440	3+	CAPP	CCRA	2007-01	<a href="http://www.niap-ccevs.org/st/st_vid10062-vr.pdf">http://www.niap-ccevs.org/st/st_vid10062-vr.pdf</a>
Red Hat	RHEL3 AS WS ES		HP D530 (Red Hat Enterprise Linux WS) HP Proliant ML570 (Red Hat Enterprise Linux ES and AS) Dell Precision 650 (Red Hat Enterprise Linux WS) Dell PE 2650 (Red Hat Enterprise Linux ES) Dell PE 6650 4 Processor (Red Hat Enterprise Linux AS)	2	CAPP	CCRA	2004-01	<a href="http://www.commoncriteriaportal.org/public/files/epfiles/Linux_v1.7.pdf">http://www.commoncriteriaportal.org/public/files/epfiles/Linux_v1.7.pdf</a>
Red Hat	RHEL4 AS		Unisys ES7000 Hardware models 405, 410, 420, 430, 440, 505, 510, 520, 530, 540	3+	CAPP	CCRA	2007-01	<a href="http://www.niap-ccevs.org/st_vid10063-vr.pdf">http://www.niap-ccevs.org/st_vid10063-vr.pdf</a>
Red Hat	RHEL4 AS WS	U1	IBM xSeries systems, based on Intel Xeon EM64T processor (Work Station and Server); IBM eServer BladeCenter systems based on the Intel Xeon EM64T processor (Work Station and Server); IBM xSeries x800, z900, z890, z990, executing in a z/VM5.1 virtual machine	4+	CAPP	CCRA	2006-01	<a href="http://niap.bahialab.com/st/ST_VID10072-VR.pdf">http://niap.bahialab.com/st/ST_VID10072-VR.pdf</a>



Dist	Version	Update	Evaluated Configuration	EAL	PP	MRA	date	Report
			(Server only); IBM iSeries systems based on the POWER5 processor with pSeries LPAR and the OS/400 service partition (Server only); IBM pSeries based on the POWER5 processor with pSeries LPAR (Server only); IBM eServer systems based on the AMD Opteron processor (Server only).					
Red Hat	RHEL4 AS & WS	U2	HP ProLiant DL systems, based on AMD Opteron, Intel Pentium and Intel Xeon processors (RHEL4 AS); HP ProLiant BL systems, based on AMD Opteron, Intel Pentium and Intel Xeon processors (RHEL4 AS); HP ProLiant ML systems, based on Intel Pentium and Xeon processors (RHEL4 AS); HP Integrity Superdome systems, based on Intel Itanium2 processor (RHEL4 AS); HP Integrity rx systems, based on Intel Itanium2 processor (RHEL4 AS); HP Integrity cx systems, based on Intel Itanium2 processor (RHEL4 AS);  HP xw workstation systems, based on the Intel Xeon and Pentium 4 processors (RHEL4 WS); HP Compaq dc systems, based on the Intel Pentium 4 processor (RHEL4 WS). <i>Only the following subset of configurations were tested with the results being deemed sufficient to cover all configurations:</i> HP DL360 (Intel Xeon based SMP system) AS SMP, WS SMP and UP; HP DL360 (Intel Xeon EM64T based SMP	3+	CAPP	CCRA	2006-05	<a href="http://niap.bahialab.com/cc-scheme/st/ST_VID10133-VR.pdf">http://niap.bahialab.com/cc-scheme/st/ST_VID10133-VR.pdf</a>



Dist	Version	Update	Evaluated Configuration	EAL	PP	MRA	date	Report
			system) AS SMP and UP;					
Red Hat	RHEL4 AS	U4	SGI Altix 4700: 128 Intel Itanium2 CPUs SGI Altix 450	3+	CAPP	CCRA	2006-05	<a href="http://niap.bahialab.com/st/ST_VID10163-VR.pdf">http://niap.bahialab.com/st/ST_VID10163-VR.pdf</a>
Red Hat	RHEL5		<p><i>HP Intel Itanium2 (single and multi-core) processor based servers:</i></p> <p>HP Integrity Superdome product line HP Integrity rx product line HP Integrity cx product line HP Integrity BL product line</p> <p><i>Intel Xeon based servers with EM64T 64bit extensions (single and multi-core), and HP AMD Opteron processor (single and multi-core):</i></p> <p>HP ProLiant ML product line (EM64T capable models) HP ProLiant DL product line (EM64T capable or Opteron models) HP ProLiant BL product line (EM64T capable or Opteron models)</p> <p><i>HP Intel Pentium and Xeon processor based servers without EM64T extensions:</i></p> <p>HP ProLiant ML product line (except EM64T capable models) HP ProLiant DL product line (except EM64T capable or Opteron models) HP ProLiant BL product line (except EM64T capable or Opteron models)</p> <p><i>HP Intel Xeon processor based systems:</i></p> <p>HP xw product line</p> <p><i>HP Intel Pentium 4 processor based systems:</i></p>	4+	CAPP LSPP RBAC	CCRA	2007-07	<a href="http://www.niap-ccevs.org/st/st_vid10165-vr.pdf">http://www.niap-ccevs.org/st/st_vid10165-vr.pdf</a>



Dist	Version	Update	Evaluated Configuration	EAL	PP	MRA	date	Report
			HP xw product line HP Compaq dc series product line					
Red Hat	RHEL5		IBM System x: x3550 (rack mount), HS20 and HS21 (blades) IBM Opteron (AMD): x3455 (rack mount), LS21 (blade) IBM System p: any POWER5/POWER5+ compliant system or software IBM System z: any z/Architecture compliant system or software	4+	CAPP LSPP RBAC	CCRA	2007-06	<a href="http://www.niap-ccevs.org/st/st_vid10125-vr.pdf">http://www.niap-ccevs.org/st/st_vid10125-vr.pdf</a>
Red Hat	RHEL5	U1	SGI Altix XE servers (200 and 300 series, Xeon EM64T/x86_64 based). Examples are the Altix XE250 and Altix XE320 SGI Altix 400 and 4000 series (Itanium2/ia64-based)	4+	CAPP LSPP RBAC	CCRA	2008-04	<a href="http://www.niap-ccevs.org/st/st_vid10286-st.pdf">http://www.niap-ccevs.org/st/st_vid10286-st.pdf</a>
Red Hat	RHEL5	U3	DELL 11th Generation PowerEdge Servers (abbreviated as 11g PowerEdge Servers) Xen DomU guest domain executing in Hardware Virtualization Mode (HVM) with para-virtualized drivers executing in a virtualized environment hosted on the above listed hardware platform	4+	CAPP	CCRA	2009-12	<a href="http://www.niap-ccevs.org/st/st_vid10338-st.pdf">http://www.niap-ccevs.org/st/st_vid10338-st.pdf</a>
Novell-SUSE	SLES8	SP3	<i>HP AMD Opteron processor based servers:</i> HP Proliant DL product line (except Intel based systems) <i>HP Intel Pentium and Xeon processor based servers:</i> HP Proliant DL product line (except AMD based systems) HP Proliant ML product line HP Proliant BL product line HP Intel Itanium2 processor based servers: HP Integrity rx product line	3+	CAPP	CCRA SOGIS	2004-09	<a href="http://www.bsi.bund.de/zertifiz/zert/reporte/0270a.pdf">http://www.bsi.bund.de/zertifiz/zert/reporte/0270a.pdf</a>



Dist	Version	Update	Evaluated Configuration	EAL	PP	MRA	date	Report
			HP Intel Xeon processor based workstation: HP xw workstation product line HP Intel Itanium2 processor based workstation: HP zx workstation product line					
Novell-SUSE	SLES8		IBM xSeries - model 335 IBM xSeries - model 440	2+	none	CCRA SOGIS	2002-02	<a href="http://www.bsi.bund.de/zertifiz/zert/reporte/0216a.pdf">http://www.bsi.bund.de/zertifiz/zert/reporte/0216a.pdf</a>
Novell-SUSE	SLES8	SP3	IBM xSeries - model x346	3+	CAPP	CCRA SOGIS	2006-06	<a href="http://www.commoncriteriaportal.org/public/files/epfiles/0371a.pdf">http://www.commoncriteriaportal.org/public/files/epfiles/0371a.pdf</a>
Novell-SUSE	SLES8	SP3 RC4	IBM xSeries - model x335 IBM zSeries - model z900 (the TOE executes in a VM 4.3 logical partition) IBM iSeries - model 825 machine type 9406 (OS/400 V5R2 LPAR) IBM pSeries - model 630 IBM eServer - model 325 (based on the AMD64 (Opteron) processor)	3+	CAPP	CCRA SOGIS	2004-01	<a href="http://www.bsi.bund.de/zertifiz/zert/reporte/0234a.pdf">http://www.bsi.bund.de/zertifiz/zert/reporte/0234a.pdf</a>
Novell-SUSE	SLES9		IBM xSeries - model x335 type 8676 IBM zSeries - model z990 (the TOE executes in a VM 5.1 logical partition) IBM iSeries - model 520 machine type 9406 (OS/400 V5R3 LPAR) IBM pSeries - model 520 machine type 9111 with pSeries LPAR SF220_049 IBM eServer - model 325 (based on the AMD64 (Opteron) processor) machine type	4+	CAPP	CCRA SOGIS	2005-03	<a href="http://www.bsi.bund.de/zertifiz/zert/reporte/0256a.pdf">http://www.bsi.bund.de/zertifiz/zert/reporte/0256a.pdf</a>



Dist	Version	Update	Evaluated Configuration	EAL	PP	MRA	date	Report
			8835					
Novell-SUSE	SLES 9	SP2	SGI Altix 350 SGI Altix 3700 Bx2	3+	CAPP	CCRA SOGIS	2005-10	<a href="http://www.bsi.de/zertif/zert/reporte/0292a.pdf">http://www.bsi.de/zertif/zert/reporte/0292a.pdf</a>
Cray	UNICOS/lc OS2	2.4.15	Cray X1 hardware	2+	none	CCRA	2004-10	<a href="http://www.commoncriteriaportal.org/public/files/epfiles/ST_VID4031-VR.pdf">http://www.commoncriteriaportal.org/public/files/epfiles/ST_VID4031-VR.pdf</a>
Miracle Linux	Miracle Linux V4		X86-64	1	none		2007-01	<a href="http://www.commoncriteriaportal.org/public/files/epfiles/c0076_ecvr.pdf">http://www.commoncriteriaportal.org/public/files/epfiles/c0076_ecvr.pdf</a>
Oracle	Enterprise Linux V4	U4	Dell Intel Xeon 64T HP Intel Xeon 64 T	4+	CAPP	CCRA SOGIS	2007-08	
Oracle	Enterprise Linux V4	U5	Dell PowerEdge 1850 (EM64T) HP ProLiant DL380 G5 (EM64T)	4+	CAPP	CCRA SOGIS	2007-08	

CAPP Controlled Access Protection Profile (CAPP), Issue 1.d, 08.10.1999

LSPP Labeled Security Protection Profile (LSPP), issue 1.b, 8 October 1999

RBAC Role-based Access Control Protection Profile, Version 1.0, July 30, 1998.

Unless stated otherwise EAL augmentations are with flaw remediation.



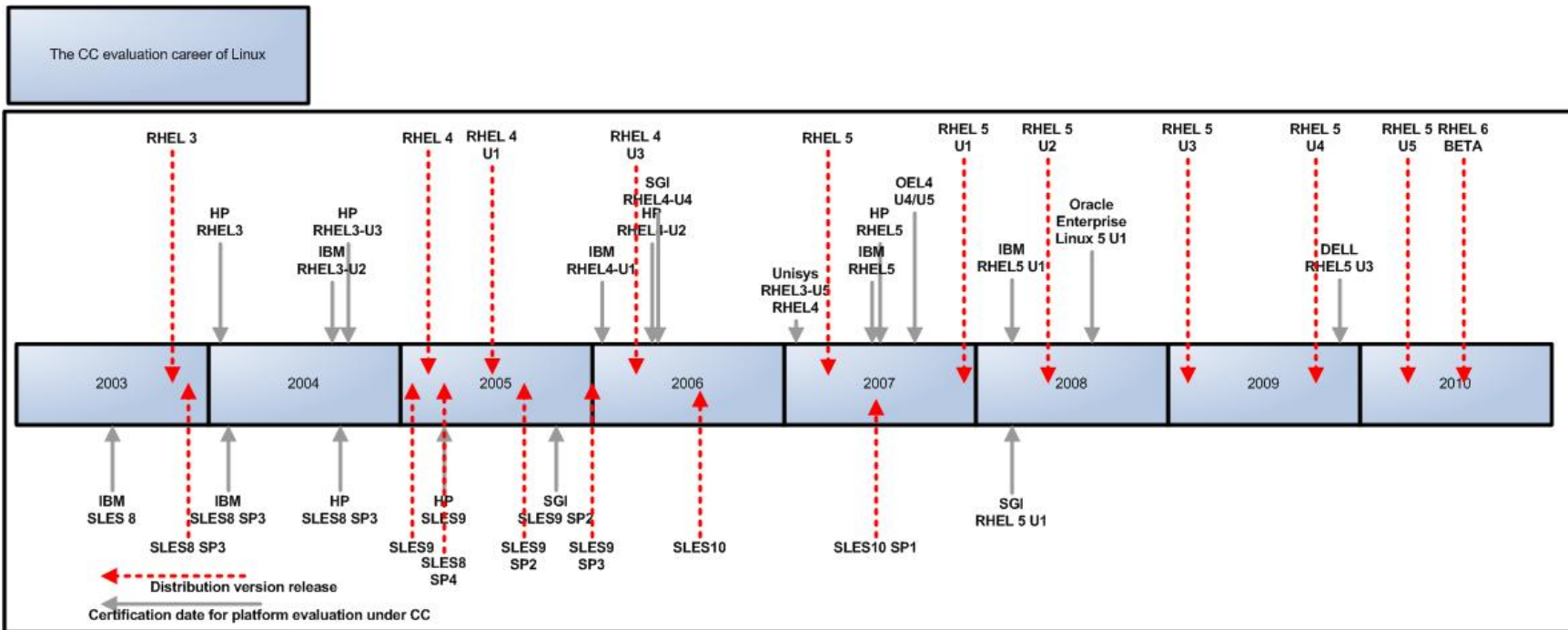


Figure 1: The Evaluation Career of Linux