

## Summary

Linux Foundation CGL 4.0 Registration	
Date	12年3月16日
Company	Red Flag Corp.
Product Name	Red Flag Asianux Server
Product Version	3SP4
Processor Architecture	x86
Contact (email or phone)	<a href="mailto:zhaopanhong@redflag-linux.com">zhaopanhong@redflag-linux.com</a>
Full Priority 1 Conformance	Yes

Template version 1.0

<i>Instructions:</i>	Fill in the above information then In the “Disclosure” Tab you can edit the “Disclosure Type”, “Package/Patch Name”, “Version” and “Notes” as needed to explain the Disclosure.
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Disclosure

CGL ID #	Requirements Description	Priority	Disclosure Type	Package/Patch Name	Version	Comply	Notes
AVL. 3. 2	Forced Un-mount	P1	Other	fuse	V2. 7. 4	Yes	
AVL. 4. 1	VM Strict Over-Commit	P1	Kernel.org		V2. 6. 32	Yes	
AVL. 5. 3	Process-Level Non-Intrusive Application Monitor	P1	OS Community Package	xinetd	V2. 3. 14	Yes	
AVL. 6. 0	Disk Predictive Analysis	P1	OS Community Package	smartmontools	V5. 38	Yes	
AVL. 7. 1	Multi-Path Access to Storage	P1	OS Community Package	device-mapper-multipath	V0. 4. 9	Yes	
AVL. 7. 2	Advanced Multi-Path Access to Storage	P2	OS Community Package	device-mapper-multipath	V0. 4. 9	Yes	
AVL. 8. 1	Fast Linux Restart Bypassing System Firmware	P1	OS Community Package	kexec-tools	V1. 102pre	Yes	
AVL. 9. 0	Boot Image Fallback Mechanism Disk Predictive	P2	Not			No	
AVL. 9. 1	Boot Cycle Detection Disk Predictive Analysis	P2	Not			No	
AVL. 10. 0	Application Live Patching	P2	Not			No	
AVL. 13. 1	Parallel User Initialization During Startup	P2	Not			No	
AVL. 21. 0	Ethernet link bonding using IPV4	P1	OS Community Package	net-tools	V1. 60	Yes	
AVL. 21. 1	Ethernet link bonding using IPV6	P1	Kernel.org		V2. 6. 32	Yes	
AVL. 22. 0	Software RAID 1 support	P1	OS Community Package	mdadm	V2. 6. 9	Yes	
AVL. 23. 0	Watchdog Timer Pre-Timeout Interrupt	P1	Kernel.org		V2. 6. 32	Yes	
AVL. 24. 0	Watchdog Timer Interface Requirements	P1	Kernel.org		V2. 6. 32	Yes	
AVL. 25. 0	Application Heartbeat Monitor	P1	OS Community Package	heartbeat	V1. 2. 2	Yes	
AVL. 26. 0	Resilient File System Support	P1	Kernel.org		V2. 6. 32	Yes	
AVL. 27. 0	Kernel Live Patching	P2	Not			No	
CMS. 1. 0	Cluster Membership Service (SA Forum AIS)	P2	OS Community Package	openais	V0. 80. 6	Yes	
CES. 1. 0	Cluster Event Service (SA Forum AIS)	P2	OS Community Package	openais	V0. 80. 6	Yes	
CCS. 1. 0	Cluster Checkpoint Service (SA Forum AIS)	P2	OS Community Package	openais	V0. 80. 6	Yes	
CLS. 1. 0	Cluster Lock Service (SA Forum AIS)	P2	OS Community Package	openais	V0. 80. 6	Yes	
CAF. 1. 0	Cluster Availability Framework (SA Forum AIS)	P1	OS Community Package	openais	V0. 80. 6	Yes	
CCM. 1. 0	Cluster Message Service (SA Forum AIS)	P2	OS Community Package	openais	V0. 80. 6	Yes	
CFH. 1. 0	Cluster Node Failure Detection	P2	OS Community Package	heartbeat	V1.2.2	Yes	
CFH. 2. 0	Prevent Failed Node From Corrupting Shared	P1	OS Community Package	heartbeat	V1.2.2	Yes	
CFH. 3. 0	Application Fail-Over Enabling	P2	OS Community Package	heartbeat	V1.2.2	Yes	
CSM. 1. 0	Storage Network Replication	P1	OS Community Package	drbd	V8. 3. 7	Yes	+kmod-drbd-8. 3. 7
CSM. 2. 0	Cluster-aware Volume Management for Shared	P2	OS Community Package	lvm2	V2. 02. 74	Yes	
CSM. 3. 0	Shared Storage Mirroring	P1	Kernel.org		V2. 6. 32	Yes	
CSM. 4. 0	Redundant Cluster Storage Path	P1	OS Community Package	device-mapper-multipath	V0. 4. 9	Yes	
CSM. 6. 0	Cluster File System	P1	OS Community Package	ocfs2-tools	V1. 4. 1	Yes	
CSM. 7. 0	Shared Storage Consistent Access	P1	OS Community Package	ocfs2-tools	V1. 4. 1	Yes	
CCM. 2. 1	Cluster Communication Service - Logical	P1	Kernel.org		V2. 6. 32	Yes	
CCM. 2. 2	Cluster Communication Service - Fault Handling	P1	OS Community Package	openais	V0. 80. 6	Yes	
CCM. 3. 0	Redundant Cluster Communication Path	P1	OS Community Package	openais	V0. 80. 6	Yes	
CAF. 2. 1	Ethernet MAC Address Takeover	P1	Kernel.org		V2. 6. 32	Yes	
CAF. 2. 2	IP Takeover	P1	Kernel.org		V2. 6. 32	Yes	
CAF. 2. 3	Deliberate TCP Session Takeover	P2	Not			No	
CAF. 2. 4	TCP Session Takeover on Node Failure	P2	Not			No	
CCS. 2. 0	SAF-AIS Data Checkpointing Performance	P2	OS Community Package	openais	V0. 80. 6	Yes	
CMS. 2. 0	Dynamic Cluster Membership	P2	OS Community Package	openais	V0. 80. 6	Yes	
CMON. 1. 1	Cluster Node HW Status Monitoring	P1	OS Community Package	openais	V0. 80. 6	Yes	
CMON. 1. 2	Cluster Events for Node Status Changes	P1	OS Community Package	openais	V0. 80. 6	Yes	
CMON. 1. 3	Cluster-Wide Resource Monitor	P1	Value-added Package	lime-perf	V1. 1. 15	Yes	
CDIAG. 2. 1	Cluster-Wide Identified Application Core Dump	P1	Kernel.org		V2. 6. 32	Yes	
CDIAG. 2. 2	Cluster-Wide Kernel Crash Dump	P1	Kernel.org		V2. 6. 32	Yes	
CDIAG. 2. 3	Cluster-Wide Log Collection	P1	OS Community Package	syslog-ng	V1. 6. 7	Yes	
CDIAG. 2. 4	Synchronized/Atomic Time Across Cluster	P1	OS Community Package	ntp	V4. 2. 2p1	Yes	
PLT. 1. 1	Shelf Management Functions Support	P1	OS Community Package	openhpi	V2. 14. 0	Yes	+OpenIPMI-2. 0. 16
PLT. 1. 2	CPU Blade Graceful Shutdown Integrated with	P1	OS Community Package	openhpi	V2. 14. 0	Yes	+OpenIPMI-2. 0. 16
PLT. 1. 3	CPU Blade Hot Swap Event Message	P1	OS Community Package	openhpi	V2. 14. 0	Yes	+OpenIPMI-2. 0. 16
PMT. 1. 1	IPMI support	P1	OS Community Package	OpenIPMI	V2. 0. 16	Yes	
PMT. 1. 3	IPMI Accessibility	P1	OS Community Package	OpenIPMI	V2. 0. 16	Yes	
PIC. 1. 1	Enhanced Configuration Mechanism Support	P1	OS Community Package	pciutils	V3. 1. 7	Yes	
PMS. 1. 0	CPU Throttle	P2	Kernel.org		V2. 6. 32	Yes	
PMS. 5. 1	iSCSI Initiator Support	P1	OS Community Package	iscsi-initiator-utils	V6. 2. 0. 872	Yes	
PMS. 5. 3	iSCSI Target Discovery	P1	OS Community Package	iscsi-initiator-utils	V6. 2. 0. 872	Yes	
PLT. 1. 1-a	Shelf Management Functions Support	P1	OS Community Package	OpenIPMI	V2. 0. 16	Yes	
PLT. 1. 2-a	CPU Blade Graceful Shutdown Integrated with	P1	OS Community Package	OpenIPMI	V2. 0. 16	Yes	
PLT. 1. 3-a	CPU Blade Hot Swap Event Message	P1	OS Community Package	OpenIPMI	V2. 0. 16	Yes	
PLT. 1. 1-c	Shelf Management Interfaces Support	P2	OS Community Package	OpenIPMI	V2. 0. 16	Yes	
PLT. 1. 2-c	CPU Blade Graceful Shutdown Integrated with	P2	OS Community Package	OpenIPMI	V2. 0. 16	Yes	
PLT. 1. 3-c	CPU Blade Hot Swap Event Message	P2	Not			No	
PRF. 1. 1	Low Scheduling Latency	P1	Kernel.org		V2. 6. 32	Yes	
PRF. 1. 3	1 ms Tick Support	P1	Kernel.org		V2. 6. 32	Yes	
PRF. 1. 4	High-Resolution Timers	P1	Patch (not in kernel.org)	RT		Yes	
PRF. 1. 5	POSIX Real-Time Features	P1	Kernel.org		V2. 6. 32	Yes	
PRF. 1. 6	Protecting Against Priority Inversion On Mutex	P1	Patch (not in kernel.org)	RT		Yes	
PRF. 1. 7	Handling Interrupts As Threads	P1	Patch (not in kernel.org)	preempt_rt		Yes	
PRF. 1. 8	Use Kernel Mutexes	P1	Patch (not in kernel.org)	RT		Yes	
PRF. 1. 11	Implementing Priority Inheritance Inside API	P1	OS Community Package	glibc	V2. 5	Yes	
PRF. 2. 1	Enabling Process Affinity	P1	Kernel.org		V2. 6. 32	Yes	
PRF. 2. 2	Enabling Interrupt CPU Affinity	P1	Kernel.org		V2. 6. 32	Yes	
PRF. 2. 3	(Hyper-Threading) Optimized SMT Support	P1	Kernel.org		V2. 6. 32	Yes	
PRF. 3. 1	Dynamic allocation with low space loss	P1	Kernel.org		V2. 6. 32	Yes	
PRF. 3. 2	Support More Than 4 Gigabyte Physical Memory	P1	Kernel.org		V2. 6. 32	Yes	
PRF. 4. 2	Support of Gigabit Ethernet Jumbo MTU	P1	Kernel.org		V2. 6. 32	Yes	
PRF. 5. 0	Efficient Low-Level Asynchronous Events	P1	OS Community Package	libevent	V1. 4. 13	Yes	
PRF. 6. 0	Managing Transient Data	P1	Kernel.org		V2. 6. 32	Yes	
PRF. 7. 0	interruptless Ethernet Delivery	P1	Kernel.org		V2. 6. 32	Yes	
PRF. 8. 0	Network Storage block level Replication	P2	OS Community Package	drbd	V8. 3. 7	Yes	
PRF. 14. 0	RAID 0 Support	P1	OS Community Package	mdadm	V2. 6. 9	Yes	
SEC. 1. 1	Dynamic Kernel Security Module Mechanism	P1	Kernel.org		V2. 6. 32	Yes	
SEC. 1. 2	Process Containment using File System	P1	OS Community Package	libselineux	v1. 33. 4	Yes	
SEC. 1. 3	Process Containment Using MAC-based Mechanism	P1	OS Community Package	libselineux	v1. 33. 4	Yes	
SEC. 1. 3. 1	MAC-based Policy Administration Tools	P2	OS Community Package	libselineux	v1. 33. 4	Yes	
SEC. 1. 4	Buffer Overflow Protection	P1	Other	gcc	v4. 1. 2	Yes	see -D_FORTIFY_SOURCE compile option
SEC. 1. 5	Access Control List Support for File Systems	P1	OS Community Package	acl	V2. 2. 39	Yes	
SEC. 2. 1	Generic Authentication Modules	P1	OS Community Package	pam	V0. 99. 6. 2	Yes	
SEC. 2. 2	Password Integrity Checking	P1	OS Community Package	pam	V0. 99. 6. 2	Yes	
SEC. 3. 1	Auditing	P1	OS Community Package	aide	V0. 14	Yes	
SEC. 3. 2	Secure Transport of Log Information	P1	OS Community Package	syslog-ng	V1. 6. 7	Yes	+logrotate-3. 7. 4
SEC. 3. 3	Periodic Automated Log Analysis	P1	OS Community Package	logwatch	V7. 3	Yes	+sysklogd-1. 4. 1
SEC. 3. 4	Active Log Monitoring	P1	OS Community Package	logrotate	V3. 7. 4	Yes	+sysklogd-1. 4. 1
SEC. 4. 1	IPsec	P1	OS Community Package	Ipsec-tools	V0. 6. 5	Yes	
SEC. 4. 2	IKE	P1	OS Community Package	Ipsec-tools	V0. 6. 5	Yes	
SEC. 4. 3	PF KEY Version 2	P1	OS Community Package	Ipsec-tools	V0. 6. 5	Yes	
SEC. 4. 4	PKI Support for Applications	P1	OS Community Package	openssl	V0. 9. 8e	Yes	
SEC. 4. 5	SSL/TLS Support for Applications	P1	OS Community Package	openssl	V0. 9. 8e	Yes	
SEC. 4. 6	PKI Certificate Authority (CA)	P1	OS Community Package	openca	V1. 1. 0	Yes	
SEC. 5. 1	Periodic User-Level File Integrity Checking	P1	OS Community Package	aide	V0. 14	Yes	
SEC. 7. 1	Memory Limits	P1	Kernel.org		V2. 6. 32	Yes	
SEC. 7. 2	File System Quotas	P1	OS Community Package	quota	V3. 13	Yes	
SEC. 7. 3	Process Quotas	P1	Kernel.org		V2. 6. 32	Yes	
SEC. 8	Trusted Platform Module (TPM) Support	P2	Kernel.org		V2. 6. 32	Yes	
SMM. 1. 0	Remote Management Standards	P1	OS Community Package	net-snmp	V5. 3. 2. 2	Yes	
SMM. 2. 0	IPMI Local Management APIs	P1	OS Community Package	OpenIPMI	V2. 0. 16	Yes	+openhpi-2. 14. 0
SMM. 2. 1	HPI Local Management APIs	P1	OS Community Package	openhpi	V2. 14. 0	Yes	
SMM. 3. 1	Serial Console Operation	P1	Kernel.org		V2. 6. 32	Yes	
SMM. 3. 2	Network Console Operation	P1	Kernel.org		V2. 6. 32	Yes	
SMM. 4. 0	Persistent Device Naming	P1	OS Community Package	udev	v095	Yes	
SMM. 5. 0	Kernel Profiling	P1	OS Community Package	oprofile	V0. 9. 4	Yes	
SMM. 5. 1	Application Profiler (was AVL. 19. 0)	P1	OS Community Package	oprofile	V0. 9. 4	Yes	

## Disclosure

SMM. 6. 0	Boot Cycle Detection	P2	OS Community Package	grub	V0. 97	Yes	
SMM. 7. 1	Temperature Monitoring	P1	OS Community Package	OpenIPMI	V2. 0. 16	Yes	+OpenIPMI-tools-2. 0. 16
SMM. 7. 2	Fan Monitoring	P1	OS Community Package	OpenIPMI	V2. 0. 16	Yes	+OpenIPMI-tools-2. 0. 16
SMM. 7. 3	Power Monitoring	P1	OS Community Package	OpenIPMI	V2. 0. 16	Yes	+OpenIPMI-tools-2. 0. 16
SMM. 7. 4	Media Monitoring	P1	OS Community Package	sysstat	V7. 0. 2	Yes	+smartmontools-5. 38
SMM. 7. 5	Network Monitoring	P1	OS Community Package	net-tools	V1. 60	Yes	+iputils-20020927
SMM. 7. 6	CPU Monitoring	P1	OS Community Package	sysstat	V7. 0. 2	Yes	+procps-3. 2. 7
SMM. 7. 7	Memory Monitoring	P1	OS Community Package	sysstat	V7. 0. 2	Yes	+procps-3. 2. 7
SMM. 7. 9	Support for Precise Process Accounting	P2	Not			No	
SMM. 8. 1	Kernel Message Structuring	P1	OS Community Package	evlog	V1. 6. 1	Yes	
SMM. 8. 2	Platform Signal Handler	P1	Kernel.org		V2. 6. 32	Yes	
SMM. 8. 3	Remote Access to Event Log	P2	Not			No	
SMM. 9. 0	Disk and Volume Management	P1	OS Community Package	lvm2	V2. 02. 74	Yes	
SMM. 10. 0	System Initialization Error Handling	P2	Kernel.org		V2. 6. 32	Yes	
SMM. 11. 0	PCI Express Device Hot Plug (was PIC. 1. 3)	P1	OS Community Package	udev	V095	Yes	
SMM. 13. 0	Diskless Systems (was PMS. 4. 0)	P1	Kernel.org		V2. 6. 32	Yes	
SMM. 14. 1	Kernel Resources Expansion for Threads (was	P1	Kernel.org		V2. 6. 32	Yes	
SPM. 1. 0	Remote Package Update and Installation	P1	OS Community Package	rpm	V4. 4. 2. 3	Yes	
SPM. 2. 0	No System Reboot for Upgrade of Kernel Modules	P2	OS Community Package	rpm	V4. 4. 2. 3	Yes	
SPM. 2. 1	No System Reboot for Application Package Update	P1	OS Community Package	rpm	V4. 4. 2. 3	Yes	
SPM. 3. 0	Version and Dependency Checking via Package	P1	OS Community Package	rpm	V4. 4. 2. 3	Yes	
SPM. 4. 0	Upgrade Log	P2	OS Community Package	rpm	V4. 4. 2. 3	Yes	+openssh-4. 3p2
SPM. 5. 0	Manual Software Rollback	P2	Not			No	
SPM. 6. 0	Automatic Software Rollback	P2	Not			No	
SFA. 1. 0	Kernel Panic Handler Enhancements	P1	Kernel.org		V2. 6. 32	Yes	
SFA. 2. 1	Live Kernel Remote Debugger	P1	Patch (not in kernel.org)	kdb		Yes	Satisfied by kernel patch kdb.
SFA. 2. 2	Dynamic Probe Insertion	P1	Kernel.org		V2. 6. 32	Yes	
SFA. 2. 3	User Space Debug Support for Threads	P1	OS Community Package	gdb	V7. 0. 1	Yes	
SFA. 2. 4	Multithreaded Core Dump Support for Threaded	P1	OS Community Package	gdb	V7. 0. 1	Yes	
SFA. 3. 0	Kernel Dump: Analysis	P1	OS Community Package	crash	V4. 1. 2	Yes	
SFA. 3. 1	Kernel Dump: Contents	P2	OS Community Package	kexec-tools	V1. 102pre	Yes	
SFA. 5. 0	Live Application Dump Trigger	P2	Not			No	
SFA. 7. 0	Application Snapshot	P2	Not			No	
SFA. 10. 0	Kernel Dump: Configurable Destinations	P1	OS Community Package	kexec-tools	V1. 102pre	Yes	
SFA. 13. 0	Live Application Dump with no Affect on System	P2	Not			No	
STD. 1. 0	Linux Standard Base Compliance	P1	Other	Submitted to LSB		Yes	
STD. 2. 0	POSIX Compliance	P1	OS Community Package	glibc	V2. 5	Yes	
STD. 2. 1	POSIX Compliance - Major CGL Features	P1	OS Community Package	glibc	V2. 5	Yes	
STD. 2. 2	POSIX Compliance - Realtime Features	P1	OS Community Package	glibc	V2. 5	Yes	
STD. 2. 3	POSIX Compliance - Minor CGL Features	P1	OS Community Package	glibc	V2. 5	Yes	
STD. 3. 1	SCTP - Base Features	P1	OS Community Package	lksctp-tools	V1. 0. 6	Yes	
STD. 3. 2. 1	SCTP - CGL Relevant Additional Features: RFC	P2	Kernel.org		V2. 6. 32	Yes	
STD. 3. 2. 2	SCTP - CGL Relevant Additional Features:	P2	Kernel.org		V2. 6. 32	Yes	
STD. 3. 2. 3	SCTP - CGL Relevant Additional Features: RFC	P2	OS Community Package	net-snmp	V5. 3. 2. 2	Yes	
STD. 3. 2. 4	SCTP - CGL Relevant Additional Features:	P2	OS Community Package	lksctp-tools	V1. 0. 6	Yes	
STD. 3. 2. 5	SCTP - CGL Relevant Additional Features: RFC	P2	OS Community Package	lksctp-tools	V1. 0. 6	Yes	
STD. 3. 2. 6	SCTP - CGL Relevant Additional Features: SCTP	P2	OS Community Package	lksctp-tools	V1. 0. 6	Yes	
STD. 4. 1	IPv6 Base Features	P1	Kernel.org		V2. 6. 32	Yes	
STD. 4. 2. 1	IPv6 Additional Features: RFC 2451 Ciphers	P2	Not			No	
STD. 4. 2. 2	IPv6 Additional Features: RFC 4213/2893 Tunnels	P2	Not			No	
STD. 4. 2. 3	IPv6 Additional Features: RFC 3484 Default	P2	Kernel.org		V2. 6. 32	Yes	
STD. 4. 2. 4	IPv6 Additional Features: RFC 3315 Dynamic Host	P2	OS Community Package	dhcpcv6	V1. 0. 10	Yes	
STD. 4. 2. 5	IPv6 Additional Features: RFC 3633 Prefix	P2	OS Community Package	dhcpcv6	V1. 0. 10	Yes	
STD. 4. 2. 6	IPv6 Additional Features: RFC 4191 Default	P2	Kernel.org		V2. 6. 32	Yes	
STD. 4. 2. 7	IPv6 Additional Features: RFC 2428 FTP	P2	Kernel.org		V2. 6. 32	Yes	
STD. 4. 2. 8	IPv6 Additional Features: RFC 3596 DNS	P2	OS Community Package	bind	V9. 3. 6	Yes	
STD. 4. 2. 9	IPv6 Additional Features: RFC 2874 DNS Address	P2	OS Community Package	bind	V9. 3. 6	Yes	
STD. 4. 2. 10	IPv6 Additional Features: RFC 3646 DNS options	P2	OS Community Package	bind	V9. 3. 6	Yes	
STD. 5. 1	IPSec Major CGL Features	P1	OS Community Package	ipsec-tools	V0. 6. 5	Yes	
STD. 5. 2. 1	IPSec Minor CGL Features: RFC 4301 Security	P2	Not			No	
STD. 5. 2. 2	IPSec Minor CGL Features: RFC 4302 IP	P2	Not			No	
STD. 5. 2. 3	IPSec Minor CGL Features: RFC 4303 IP	P2	Not			No	
STD. 5. 2. 4	IPSec Minor CGL Features: RFC 4305 Cryptographic	P2	Not			No	
STD. 5. 2. 5	IPSec Minor CGL Features: RFC 4307 Cryptographic	P2	Not			No	
STD. 5. 2. 6	IPSec Minor CGL Features: RFC 4322 Opportunistic	P2	Not			No	
STD. 5. 2. 7	IPSec Minor CGL Features: RFC 4434 AES Algorithm	P2	Not			No	
STD. 6. 1	MIPv6 CGL Major Features	P1	OS Community Package	mipv6-daemon	V0. 3	Yes	
STD. 6. 2	MIPv6 Minor CGL Features	P2	OS Community Package	mipv6-daemon	V0. 3	Yes	
STD. 7. 1	SNMP v1, v2, v3	P1	OS Community Package	net-snmp	V5. 3. 2. 2	Yes	
STD. 7. 2	SNMP MIBs for IPv6/IPv4	P1	OS Community Package	net-snmp	V5. 3. 2. 2	Yes	
STD. 8. 1	SA Forum AIS	P2	OS Community Package	openais	V0. 80. 6	Yes	
STD. 8. 2	SA Forum AIS - Lock Service API	P2	OS Community Package	openais	V0. 80. 6	Yes	
STD. 8. 3	SA Forum AIS - Cluster Membership Service API	P2	OS Community Package	openais	V0. 80. 6	Yes	
STD. 8. 4	SA Forum AIS - Checkpoint Service API	P2	OS Community Package	openais	V0. 80. 6	Yes	
STD. 8. 5	SA Forum AIS - Event Service API	P2	OS Community Package	openais	V0. 80. 6	Yes	
STD. 8. 6	SA Forum AIS - Message Service API	P2	OS Community Package	openais	V0. 80. 6	Yes	
STD. 8. 7	SA Forum AIS - Availability Management	P2	OS Community Package	openais	V0. 80. 6	Yes	
STD. 8. 8	SA Forum HPI	P1	OS Community Package	openhpi	V2. 14. 0	Yes	
STD. 9. 0	IPMI	P1	OS Community Package	OpenIPMI	V2. 0. 16	Yes	+OpenIPMI-tools-2. 0. 16
STD. 10. 0	802. 1Q VLAN Endpoint	P1	Kernel.org		V2. 6. 32	Yes	
STD. 11. 1	Diameter Protocol CGL Major Features	P1	OS Community Package	opendiameter	V1. 0. 7	Yes	
STD. 16. 0	PCI Express	P1	Kernel.org		V2. 6. 32	Yes	
STD. 17. 1	iSCSI Support: RFC 3270 Iscsi	P2	Kernel.org		V2. 6. 32	Yes	
STD. 17. 2	iSCSI Support: RFC 3271 iSCSI Naming & Discovery	P2	Kernel.org		V2. 6. 32	Yes	
STD. 17. 3	iSCSI Support: RFC 3273 iSCSI Securing Block	P2	Kernel.org		V2. 6. 32	Yes	
STD. 18. 1	Differentiated Services: RFC 2474 Definition	P2	Not			No	
STD. 18. 2	Differentiated Services: RFC 2475 Definition	P2	Not			No	
STD. 22. 0	Common Criteria for IT Security Evaluation	P2	Not			No	
AVL. 3. 2	Forced Un-mount	P1	Other	fuse	V2. 7. 4	Yes	
AVL. 4. 1	VM Strict Over-Commit	P1	Kernel.org		V2. 6. 32	Yes	
AVL. 5. 3	Process-Level Non-Intrusive Application Monitor	P1	OS Community Package	xinetd	V2. 3. 14	Yes	
AVL. 6. 0	Disk Predictive Analysis	P1	OS Community Package	smartmontools	V5. 38	Yes	
AVL. 7. 1	Multi-Path Access to Storage	P1	OS Community Package	device-mapper-multipath	V0. 4. 9	Yes	
AVL. 7. 2	Advanced Multi-Path Access to Storage	P2	OS Community Package	device-mapper-multipath	V0. 4. 9	Yes	
AVL. 8. 1	Fast Linux Restart Bypassing System Firmware	P1	OS Community Package	kexec-tools	V1. 102pre	Yes	
AVL. 9. 0	Boot Image Fallback Mechanism Disk Predictive	P2	Not			No	
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AVL. 10. 0	Application Live Patching	P2	Not			No	
AVL. 13. 1	Parallel User Initialization During Startup	P2	Not			No	
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AVL. 23. 0	Watchdog Timer Pre-Timeout Interrupt	P1	Kernel.org		V2. 6. 32	Yes	
AVL. 24. 0	Watchdog Timer Interface Requirements	P1	Kernel.org		V2. 6. 32	Yes	
AVL. 25. 0	Application Heartbeat Monitor	P1	OS Community Package	heartbeat	V1. 2. 2	Yes	
AVL. 26. 0	Resilient File System Support	P1	Kernel.org		V2. 6. 32	Yes	
AVL. 27. 0	Kernel Live Patching	P2	Not			No	
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CCS. 1. 0	Cluster Checkpoint Service (SA Forum AIS)	P2	OS Community Package	openais	V0. 80. 6	Yes	
CLS. 1. 0	Cluster Lock Service (SA Forum AIS)	P2	OS Community Package	openais	V0. 80. 6	Yes	
CAF. 1. 0	Cluster Availability Framework (SA Forum AIS)	P1	OS Community Package	openais	V0. 80. 6	Yes	
CCM. 1. 0	Cluster Message Service (SA Forum AIS)	P2	OS Community Package	openais	V0. 80. 6	Yes	
CFH. 1. 0	Cluster Node Failure Detection	P2	OS Community Package	heartbeat	V1. 2. 2	Yes	
CFH. 2. 0	Prevent Failed Node From Corrupting Shared	P1	OS Community Package	heartbeat	V1. 2. 2	Yes	
CFH. 3. 0	Application Fail-Over Enabling	P2	OS Community Package	heartbeat	V1. 2. 2	Yes	



Disclosure

CSM.1.0	Storage Network Replication	P1	OS Community Package	drbd	V8.3.7	Yes	+kmod-drbd-8.3.7
CSM.2.0	Cluster-aware Volume Management for Shared	P2	OS Community Package	lvm2	V2.02.74	Yes	
CSM.3.0	Shared Storage Mirroring	P1	Kernel.org		V2.6.32	Yes	
CSM.4.0	Redundant Cluster Storage Path	P1	OS Community Package	device-mapper-multipath	V0.4.9	Yes	
CSM.6.0	Cluster File System	P1	OS Community Package	ocfs2-tools	V1.4.1	Yes	
CSM.7.0	Shared Storage Consistent Access	P1	OS Community Package	ocfs2-tools	V1.4.1	Yes	
CCM.2.1	Cluster Communication Service - Logical	P1	Kernel.org		V2.6.32	Yes	
CCM.2.2	Cluster Communication Service - Fault Handling	P1	OS Community Package	openais	V0.80.6	Yes	
CCM.3.0	Redundant Cluster Communication Path	P1	OS Community Package	openais	V0.80.6	Yes	
CAF.2.1	Ethernet MAC Address Takeover	P1	Kernel.org		V2.6.32	Yes	
CAF.2.2	IP Takeover	P1	Kernel.org		V2.6.32	Yes	
CAF.2.3	Deliberate TCP Session Takeover	P2	Not			No	
CAF.2.4	TCP Session Takeover on Node Failure	P2	Not			No	
CCS.2.0	SAF-AIS Data Checkpointing Performance	P2	OS Community Package	openais	V0.80.6	Yes	
CMS.2.0	Dynamic Cluster Membership	P2	OS Community Package	openais	V0.80.6	Yes	
CMON.1.1	Cluster Node HW Status Monitoring	P1	OS Community Package	openais	V0.80.6	Yes	
CMON.1.2	Cluster Events for Node Status Changes	P1	OS Community Package	openais	V0.80.6	Yes	
CMON.1.3	Cluster-Wide Resource Monitor	P1	OS Community Package	lime-perf	V1.1.15	Yes	
CDIAG.2.1	Cluster-Wide Identified Application Core Dump	P1	Kernel.org		V2.6.32	Yes	
CDIAG.2.2	Cluster-Wide Kernel Crash Dump	P1	Kernel.org		V2.6.32	Yes	
CDIAG.2.3	Cluster-Wide Log Collection	P1	OS Community Package	syslog-ng	V1.6.7	Yes	
CDIAG.2.4	Synchronized/Atomic Time Across Cluster	P1	OS Community Package	ntp	V4.2.2p1	Yes	
PLT.1.1	Shelf Management Functions Support	P1	OS Community Package	openhpi	V2.14.0	Yes	+OpenIPMI-2.0.16
PLT.1.2	CPU Blade Graceful Shutdown Integrated with	P1	OS Community Package	openhpi	V2.14.0	Yes	+OpenIPMI-2.0.16
PLT.1.3	CPU Blade Hot Swap Event Message	P1	OS Community Package	openhpi	V2.14.0	Yes	+OpenIPMI-2.0.16
PMT.1.1	IPMI support	P1	OS Community Package	OpenIPMI	V2.0.16	Yes	
PMT.1.3	IPMI Accessibility	P1	OS Community Package	OpenIPMI	V2.0.16	Yes	
PIC.1.1	Enhanced Configuration Mechanism Support	P1	OS Community Package	pciutils	V3.1.7	Yes	
PMS.1.0	CPU Throttle	P2	Kernel.org		V2.6.32	Yes	
PMS.5.1	iSCSI Initiator Support	P1	OS Community Package	iscsi-initiator-utils	V6.2.0.872	Yes	
PMS.5.3	iSCSI Target Discovery	P1	OS Community Package	iscsi-initiator-utils	V6.2.0.872	Yes	
PLT.1.1-a	Shelf Management Functions Support	P1	OS Community Package	OpenIPMI	V2.0.16	Yes	
PLT.1.2-a	CPU Blade Graceful Shutdown Integrated with	P1	OS Community Package	OpenIPMI	V2.0.16	Yes	
PLT.1.3-a	CPU Blade Hot Swap Event Message	P1	OS Community Package	OpenIPMI	V2.0.16	Yes	
PLT.1.1-c	Shelf Management Interfaces Support	P2	OS Community Package	OpenIPMI	V2.0.16	Yes	
PLT.1.2-c	CPU Blade Graceful Shutdown Integrated with	P2	OS Community Package	OpenIPMI	V2.0.16	Yes	
PLT.1.3-c	CPU Blade Hot Swap Event Message	P2	Not			No	
PRF.1.1	Low Scheduling Latency	P1	Kernel.org		V2.6.32	Yes	
PRF.1.3	1 ms Tick Support	P1	Kernel.org		V2.6.32	Yes	
PRF.1.4	High-Resolution Timers	P1	Kernel.org		V2.6.32	Yes	
PRF.1.5	POSIX Real-Time Features	P1	Kernel.org		V2.6.32	Yes	
PRF.1.6	Protecting Against Priority Inversion On Mutex	P1	OS Community Package	glibc	V2.5	Yes	
PRF.1.7	Handling Interrupts As Threads	P1	Patch (not in kernel.org)	preempt_rt		Yes	
PRF.1.8	Use Kernel Mutexes	P1	Kernel.org		V2.6.32	Yes	
PRF.1.11	Implementing Priority Inheritance Inside API	P1	OS Community Package	glibc	V2.5	Yes	
PRF.2.1	Enabling Process Affinity	P1	Kernel.org		V2.6.32	Yes	
PRF.2.2	Enabling Interrupt CPU Affinity	P1	Kernel.org		V2.6.32	Yes	
PRF.2.3	(Hyper-Threading) Optimized SMT Support	P1	Kernel.org		V2.6.32	Yes	
PRF.3.1	Dynamic allocation with low space loss	P1	Kernel.org		V2.6.32	Yes	
PRF.3.2	Support More Than 4 Gigabyte Physical Memory	P1	Kernel.org		V2.6.32	Yes	
Optional (lines below can be removed)							
AVL.1.0	Robust Mutexes	P3	Patch (not in kernel.org)	RT			
AVL.2.0	Single-bit ECC handling	P3	Not				
AVL.2.1	Multi-bit ECC handling	P3	Not				
AVL.3.1	RAID-1 Block Device Removal	P3	OS Community Package	mdadm	V2.6.9		
AVL.3.3	Forced Un-mount Application Notification	P3	Not				
AVL.4.2	Replaceable OOM Killer	P3	Not				
AVL.4.3	Low Memory Condition Monitor	P3	Not				
AVL.4.4	Low Memory Notification Mechanism	P3	Not				
AVL.5.1	Kernel-Level Non-Intrusive Application Monitor	P3	OS Community Package	strace	V4.5.18		
AVL.8.3	Parallel Driver Initialization During Startup	P3	Not				
AVL.12.0	NFS Client Protection Across Server Failures	P3	Not				
AVL.14.0	Excessive CPU Cycle Usage Detection	P3	Not				
AVL.15.0	Fast Application Restart Mechanism	P3	Not				
AVL.17.0	Multiple FIB Support	P3	Not				
AVL.18.0	iSCSI Error Handling Support	P3	OS Community Package	Iscsi-initiator-utils	V6.2.0.872		
AVL.28.0	Support of Mlocked Page Limits	P3	Not				
CSM.5.0	Cluster Synchronized Device Hotswap	P3	Not				
CCM.2.3	Cluster Communication Service - Quality of	P3	Not				
CCM.2.4	Cluster Communication Service - Performance	P3	Not				
CCM.2.5	Cluster Communication Service - Event	P3	OS Community Package	openais	V0.80.6		
CMON.1.4	Cluster-Wide Application Monitor	P3	OS Community Package	openais	V0.80.6		
CMS.3.0	Single Node Multiple Clusters	P3	Not				
CCON.1.1	Run Diagnostics	P3	Not				
CCON.1.2	Boot/Reboot nodes	P3	OS Community Package	openhpi	V2.14.0		
CCON.1.3	SW Upgrades	P3	Not				
CCON.1.4	SW Rolling Upgrades	P3	Not				
CDIAG.1.1	Online Diagnostic s for Fans and Power Supplies	P3	Not				
CDIAG.1.2	Online Diagnostics for System Components	P3	Not				
PIC.1.5	Virtual Channel Mechanism Support	P3	Not				
PIC.1.6	Advance Error Reporting Support	P3	Not				
PIC.2.0	Advanced Switching Support	P3	Not				
PIC.3.0	Rapid I/O Support	P3	Kernel.org		V2.6.32		
PMS.5.2	iSCSI Initiator IPv6 Support	P3	Kernel.org		V2.6.32		
PRF.1.2	Configurable Scheduler Quantum For Round Robin	P3	Kernel.org		V2.6.32		
PRF.1.9	Message Queues With Priority Promotion	P3	Not				
PRF.2.4	Support for Task Exclusive Bind to Logical CPU	P3	Kernel.org		V2.6.32		
PRF.4.1	IP Forwarding Tables Fast Access And Compact	P3	Kernel.org		V2.6.32		
PRF.4.3	Prioritized Protocol Processing	P3	Not				
PRF.4.4	Low Software Overhead For Message Latency	P3	Not				
PRF.10.0	CGL Benchmark	P3	Not				
PRF.11.1	Application (Pre)loading Non-Root	P3	Not				
PRF.11.2	Application (Pre)loading Limits	P3	Not				
SEC.3.5	Log Integrity and Origin Authentication	P3	OS Community Package	aide	V0.14		
SEC.7.4	Execution Quotas	P3	Kernel.org		V2.6.32		
SMM.6.1	Early Boot Cycle Detection	P3	OS Community Package	grub	V0.97		
SMM.7.8	Support for User Locked Page Reporting	P3	Not				
SMM.12.0	Remote Boot Support (was PMT.2.0)	P3	Kernel.org		V2.6.32		
SMM.14.2	Kernel Resources Limits for Threads (was	P3	Not				
SPM.7.0	Fine-Grain Software Version Checking	P3	Not				
SPM.8.0	Idempotent Package Installation Recovery	P3	Not				
SFA.4.0	Kernel Dump: Limit Scope	P3	Not				
SFA.6.0	System Snapshot	P3	OS Community Package	system-config-kdump	V1.0.14		
SFA.8.0	Kernel Flat/Graph Execution Profiling	P3	Not				
SFA.9.0	Kernel Sampling for Profiling	P3	Not				
SFA.14.0	Per Thread CPU Time Limits and Signaling	P3	Not				
STD.3.2.7	SCTP - CGL Relevant Additional Features: SCTP	P3	Kernel.org		V2.6.32		
STD.3.2.8	SCTP - CGL Relevant Additional Features:	P3	Kernel.org		V2.6.32		
STD.11.2	Diameter Protocol Minor CGL Features	P3	Not				
STD.19.0	Advanced Switching	P3	Not				
STD.20.1	PKI CA: RFC 2527 X.509 PKI	P3	Not				
STD.20.2	PKI CA: RFC 2585 X.509 PKI Protocols FTP and	P3	Not				
STD.20.3	PKI CA: RFC 3279 Algorithms for X.509 PKI	P3	Not				
STD.20.4	PKI CA: RFC 3280 X.509 PKI Certificate Stuff	P3	Not				
STD.25.0	Rapid I/O Specification 1.3 Support	P3	Kernel.org		V2.6.32		