

Why Real-Time Alerts?

- Don't wait for the yearly audit
- Don't wait for that daily, weekly, monthly script to run and report your security
- Get alerted of a security mistake or hacker, the same second it happens so you can react, immediately.

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PowerSC Editions	PowerSC Editions	Express	Standard
PowerSC ExpressBasic compliance for AIX	Security & Compliance Automation	✓	1 Tine
	Trusted Logging		✓
 PowerSC Standard 	Trusted Boot		✓
 Security and compliance for virtual & cloud environments 	Trusted Firewall		✓
	Trusted Network Connect & Patch Mgmt		✓
	Real Time Compliance	✓	✓
Trusted Surveyor ##	PowerSC GBP/core	Evpross	Standard
Separate LPP & price	PowerSC GBP/Core	Express	
	Small Blade up to 750	£91.75 £15.53	£111.6 £22.3
		£229.38	£281.4
UK List prices from mid-2012 = only indicative of a ball-park.	Medium Power 770	£39.17	£56.2
	Medium Power 770 Large Power780 & 795		£56.2 £558.3 £111.6

PowerSC Editions

- PowerSC Express
 - Basic compliance for AIX
- PowerSC Standard
 - Security and compliance for virtual & cloud environments

PowerSC Editions	Express	Standard
Security & Compliance Automation	✓	✓
Trusted Logging		✓
Trusted Boot		✓
Trusted Firewall		✓
Trusted Network Connect & Patch Mgmt		✓
Real Time Compliance	✓	✓

Real-Time Compliance Pre-Requisites

- AIX 6 TL7+ or AIX 7 TL1+ with all service packs please
- Purchase PowerSC Express Edition
 - With Media
- Downloaded from PowerSC from ESS website as normal
 - Entitled Software Support http://www.ibm.com/servers/eserver/ess/index.wss
- Alert Reporting is via email and/or SNMP trap
- It is assume you have email working from the AIX machine running RTC
 - If not, have fun with sendmail!
- Of course, email includes tablets & smart phones can be alerted as well as your service desk or operators
- Alternatively, have an SNMP server ready





Real-Time Compliance Pre-Requisites

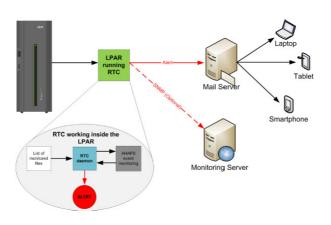
- PowerSC Standard Edition files

 ESD_-_PowerSC_Standard_Edition_V1.1_112012.tar.gz

 openpts.verifier
- - 1.0.0.0 Open Platform Trust Services verifier
- powerscExp.ice
 - 1.1.2.0 ICE Express Security Extension
- powerscExp.license
 - 6.1.6.15 PowerSC Express Edition
- powerscExp.rtc
 - 1.1.2.0 Real-Time Compliance
- powerscStd.license
 - 6.1.8.0 PowerSC Standard Edition
- powerscStd.svm
 - 1.1.2.0 Secure Virtual Machine
- powerscStd.tnc pm
 - 1.1.2.0 Trusted Network Connect for Patch Management
- powerscStd.vlog
 - 1.1.2.0 Virtual Log Device Software
- powerscStd.vtpm
 - 1.1.2.0 Virtual Trusted Platform Module

Real-Time Compliance (RTC)

- Built around a AIX Autonomic Health Advisor File System (AHAFS1)
- As the resource is changed the AIX kernel immediately takes action
- No polling or cron scripts





Real-Time Compliance (RTC)

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- -Configure with:
 - smitty RTC → set the email user(s), detail level, etc.
 - Or edit /etc/security/rtc/rtcd.conf
 - Then: startsrc -s rtcd
- -It is an AIX subsystem:
 - Issrc -s rtcd
 - stopsrc -s rtcd
 - startsrc -s rtcd

Real-Time Compliance (RTC)



Information Levels:

- -Infolevel:1
- timestamp
 - sequence number
 - event producer return code
 - process info
 - program name
- -Infolevel:2 above plus
 - message of the event producer, if applicable
- -Infolevel:3 above plus
 - stack of the event, if applicable

Real-Time Compliance (RTC)

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Config file of pre-defined monitoring is in /etc/security/rtc/rtcd_policy.conf

/etc/environment:

eventtype = modFile

Valid are modFile, modFileAttr or both

Edit this file then: stopsrc -s rtcd; startsrc -s rtcd

Or use the **chsec** command
 Could be useful to remotely update lots of machines
 Also automatically restarts rtcd

Real-Time Compliance Summary



- 2. Simple to extend to your own local needs
- 3. Immediate warning of unusual security changes
- 4. Need an escalation process to deal with problems



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