

PANFINDER™

PAN data discovery

PANfinder™ is a sophisticated yet inexpensive software tool which scans your systems for unmasked and non-encrypted payment card data or PANs (Primary Account Numbers). Whether you're at the start of a PCIDSS compliance project or you're already certified, PANfinder will help to research your PCI-DSS scope and to meet PCI-DSS requirements 3, 3.4, 6.4.3, and 12.

PANfinder™ provides a method of scanning your systems for readable/unprotected PAN data. Once found, you can take steps to secure or remove that data. When there are no unsecured PANs residing on your system, PANfinder helps you prove all your PANs are being stored in accordance with PCI-DSS. By building up a history of clean PANfinder reports, you're well-placed to provide auditors with proof of historic compliance.

Why Do You Need PANfinder?

There are two ways of sweeping your systems looking for PANs. The first is by manually checking every file – clearly not viable. The second is with an intelligent software tool.

Configuration & False Positive Reduction

- ▶ PANfinder™ has many flexible configuration options as to how and when it performs its searches. Specific files and folders can be included/excluded as required.
- ▶ Easy to import your own BIN/IIN PAN prefix database into PANfinder if required.
- ▶ PANfinder's CPU usage and priority can be configured to ensure minimal impact on CPU overhead during scanning.
- ▶ Built-in intelligence ensures highly accurate results and minimizes false positives.



Questions

- ▶ How do you know exactly where on your system and on which systems PANs are stored?
- ▶ Can you prove you're not storing unprotected PAN and SAD data?
- ▶ Can you prove you don't have live PANs residing on your systems in unauthorized locations?
- ▶ PANfinder can help you answer with "yes" to those three questions by providing auditors and QSAs with clear and concise reports.

FASTscan™

- ▶ Once a predetermined number of PANs has been found in a file, PANfinder can move on to the next file, vastly increasing the speed of initial system scans.
- ▶ Change-detection: once an initial scan has been carried out, PANfinder can be set to only scan files which have been changed/edited since its previous scan – vastly increasing overall scan speeds.
- ▶ PANfinder can be configured to only search files which have previously been identified as containing suspect PAN data – ideal for checking successful removal/encryption of PAN data positives.

PCI-DSS

- ▶ PCI-DSS requirement 3.2 states
"Storage of account data is kept to a minimum. Coverage for any sensitive authentication data (SAD) stored prior to completion of authorization."
- ▶ PCI-DSS requirement 3.5.1 states
"Render PAN, at minimum, unreadable anywhere it is stored"
- ▶ PCI-DSS requirement 6.5.5 states
"Live PANs are not used in pre-production environments"
- ▶ PCI-DSS requirement 12.5 states
"PCI-DSS scope is documented and validated"
- ▶ PCI-DSS requirement 12.5.2 states
"PCI DSS scope is documented and confirmed by the entity at least once every 12 months and upon significant change to the in-scope environment."



PARTICIPATING ORGANIZATION



Reports & SIEM Integration

- ▶ Summary and Detailed reports are generated as CSV files, making storage and analysis easy.
- ▶ As you'd expect, suspected PANs within the reports are masked in accordance with PCI-DSS.
- ▶ Use the Syslog output to integrate PANfinder into SIEM (Security Information and Event Management)/enterprise audit logging solutions such as LogLogic, RSA enVision etc.

A	B	C	D	E	F	G	H	I
date (dmy)	time	msg type	msg number	action	file[set]	pan	detail	security code
28/10/2010	20:27:33	W	105	processing file	SAPPLI.LIK*.*			sc0000:1162:02F3
28/10/2010	20:27:33	I	100	processing file	SAPPLI.LK.TACLUCSTM			sc0169:55A9:E86C
28/10/2010	20:27:33	I	100	processing file	SAPPLI.LKDATA.BAK2			sc0169:55A9:E86C
28/10/2010	20:27:33	I	100	processing file	SAPPLI.LKDATA.CDAT			sc0169:55A9:E86C
28/10/2010	20:27:33	E	104	15-digit PAN detected (known prefix & valid luhn)	SAPPLI.LKDATA.CDAT	37470XXXXX1435	matches prefix table element 37	sc0182:A809:A824
28/10/2010	20:27:33	E	104	14-digit PAN detected (known prefix & valid luhn)	SAPPLI.LKDATA.CDAT	34670XXXX3429	matches prefix table element 34	sc0248:3241:DOCF
28/10/2010	20:27:33	E	104	14-digit PAN detected (known prefix & valid luhn)	SAPPLI.LKDATA.CDAT	34505XXXX6491	matches prefix table element 34	sc2143:AFBB:42A6
28/10/2010	20:27:34	I	100	processing file	SAPPLI.LKDATA.CDAT2			sc0169:55A9:E86C
28/10/2010	20:27:34	E	104	14-digit PAN detected (known prefix & valid luhn)	SAPPLI.LKDATA.CDAT2	340810XXXX5430	matches prefix table element 34	sc3623:736A:3FD2
28/10/2010	20:27:34	E	104	14-digit PAN detected (known prefix & valid luhn)	SAPPLI.LKDATA.CDAT2	341110XXXX4826	matches prefix table element 34	sc3622:2C10:F492
28/10/2010	20:27:34	E	104	14-digit PAN detected (known prefix & valid luhn)	SAPPLI.LKDATA.CDAT2	37197XXXX7968	matches prefix table element 37	sc3619:C011:8083
28/10/2010	20:27:34	I	100	processing file	SAPPLI.LKDATA.CDAT3			sc0169:55A9:E86C
28/10/2010	20:27:34	E	104	14-digit PAN detected (known prefix & valid luhn)	SAPPLI.LKDATA.CDAT3	340810XXXX5430	matches prefix table element 34	sc3623:736A:3FD2
28/10/2010	20:27:34	E	104	14-digit PAN detected (known prefix & valid luhn)	SAPPLI.LKDATA.CDAT3	341110XXXX4826	matches prefix table element 34	sc3622:2C10:F492
28/10/2010	20:27:34	E	104	14-digit PAN detected (known prefix & valid luhn)	SAPPLI.LKDATA.CDAT3	37197XXXX7968	matches prefix table element 37	sc3619:C011:8083
28/10/2010	20:27:35	I	100	processing file	SAPPLI.LKTEST.TESTCFG			sc0169:55A9:E86C
28/10/2010	20:27:35	I	100	processing file	SAPPLI.LKTEST.TESTLOG			sc0169:55A9:E86C
28/10/2010	20:27:38	I	100	processing file	SAPPLI.LKTEST.TESTOBJ			sc0169:55A9:E86C
28/10/2010	20:27:38	I	100	processing file	SAPPLI.LKTESTSD.DATA			sc0169:55A9:E86C
28/10/2010	20:27:38	E	104	14-digit PAN detected (known prefix & valid luhn)	SAPPLI.LKTESTSD.DATA	34694XXXX9602	matches prefix table element 34	sc3626:590B:4D20
28/10/2010	20:27:38	E	104	14-digit PAN detected (known prefix & valid luhn)	SAPPLI.LKTESTSD.DATA	345678XXXX3456	matches prefix table element 34	sc3627:AF31:3AC5
28/10/2010	20:27:38	E	104	15-digit PAN detected (known prefix & valid luhn)	SAPPLI.LKTESTSD.DATA	376116XXXX9232	matches prefix table element 37	sc3772:DSBC:AA0E
28/10/2010	20:27:39	I	100	processing file	SAPPLI.LKVERX.QAW			sc0169:55A9:E86C
28/10/2010	20:27:39	I	100	processing file	SAPPLI.LKVERX.QAY			sc3820:DSBB:0481
28/10/2010	20:27:39	W	108	fileset completed normally	SAPPLI.LIK*.*			sc4446:914F:02FE

A PANfinder report provides all the detail you need





date	time	text	file	pancount	filetype	fileowner	filelastupdate
22/06/2011	12:20:07	file scan completed normally with pans detected	\$DATA1.PFD101.C25	25	101 (edit)	kc.gregftp (110,28)	8/06/2011 18:07
22/06/2011	12:20:07	file scan completed normally with pans detected	\$DATA1.PFD101.C25MACB	25	101 (edit)	kc.gregftp (110,28)	8/06/2011 18:23
22/06/2011	12:20:08	file scan completed normally with pans detected	\$DATA1.PFD101.C42	42	101 (edit)	kc.gregftp (110,28)	11/05/2011 23:05

A summary scan is perfect for quickly discovering where the majority of suspected PANs are located

Agent Mode

PANfinder can run in agent mode where it constantly monitors the configured file set for suspect PAN data.

Platforms

PANfinder is only available for HPE NonStop servers.

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