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## The Custom Command PRTPWDAUD(Print Password Audit Report)

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For this issue I've written the Print Password Audit Report (**PRTPWDAUD**) command as a follow up to my previous article dealing with the Check Password Exit Point. The PRTPWDAUD command allows you to print a report showing all or only specific change password activity on your system, irrespective of the command or interface performing the password change.

The report is based on the User Profile Changes ('CP') system audit journal entries found in the QAUDJRN system audit journal. In order for this type of entries to be deposited, the system audit journal must be configured and security events be audited. The latter is achieved by specifying either **\*SECURITY** or **\*SECCFG** for the QAUDLVL system value. Links to articles discussing the creation and configuration of the QAUDJRN system audit journal were provided in my previous article, to which I've provided a link below.

Here's what you see when you prompt the PRTPWDAUD command:

```

Print Password Audit Report (PRTPWDAUD)

Type choices, press Enter.

Journal receiver searched:

Starting journal receiver . . *CURRENT      Name, *CURRENT,
*CURCHAIN
Library . . . . . Name, *LIBL, *CURLIB

Ending journal receiver . . . Name, *CURRENT

Library . . . . . Name, *LIBL, *CURLIB

Starting date and time:

Starting date . . . . . *FIRST      Date, *FIRST,
*YESTERDAY...
Starting time . . . . . Time

Ending date and time:

```

Ending date . . . . .	*LAST	Date, *LAST,
*YESTERDAY		
Ending time . . . . .		Time
User profile . . . . .	*ALL	Name, *ALL
Target user profile . . . . .	*ALL	Name, *ALL
Password check status . . . . .	*ANY	*ANY, *NONPASS,
*PASSED...		
+ for more values		

Most of the parameters are similar in the way they work to the equivalent Display Journal (DSPJRN) command parameters. In addition the PRTPWDAUD command allows you to select journal entries based on the user profile having it's password changed as well as the outcome of the password change operation. As for the latter it can basically be divided into five categories:

#### **\*PASSED**

Only password changes that achieved the \*PASSED special value indicating that the password was checked and found to conform to the password composition rules are included in the report.

#### **\*SYSVAL**

Only password changes that failed the password check due to a system value based rule are included in the report.

#### **\*EXITPGM**

Only password changes that failed the password check due to an exit program response are included in the report.

#### **\*NONE**

Only password changes that were not checked due to the special value \*NONE being specified for the new password are included in the report.

#### **\*NOCHK**

Only password changes that were not checked are included in the report.

The PRTPWDAUD command also support the following two single values for this parameter:

#### **\*ANY**

All password changes are included in the report, irrespective of the outcome of the password check.

#### **\*NONPASS**

All password changes that did not achieve the \*PASSED special value indicating that the password was checked and found to conform to the password composition rules are included in the report.

The Starting date and time (FROMTIME) as well as Ending date and time (TOTIME) parameters accept special values that allow you to easily run the PRTPWDAUD command from a scheduled job. These special values include \*YESTERDAY and \*WEEKBACK, please look up the help text for these parameters for a detailed explanation. The other command parameters are of course also explained in more detail in the command's online help text. Please note that, due to the sensitive and confidential nature of the information presented in the audit report, user profile special authority \*SECADM and \*ALLOBJ is required to run the PRTPWDAUD command.

The PRTPWDAUD command performs its password audit based on the currently on-line journal receiver directory of the system audit journal QAUDJRN. The result of the PRTPWDAUD command is therefore limited by the audit journal receivers currently available on the system. The command processing program uses the Retrieve Journal Entries (QjoRetrieveJournalEntries) API to extract the journal entries that are subsequently processed and printed in the password audit report. If using the new (Release 5.4) Copy Audit Journal Entries (**CPYAUDJRNE**) command in conjunction with a query tool to extract and process audit journal entries does not meet your specific needs for a given requirement, the PRTPWDAUD command and CPP could easily be adapted to produce audit reports based on other types of audit journal entries.

Here is a sample of the report produced.

18/05/09 20:22:43				Print Password Audit		
Report		Program: CBX988				
Page:						
Timestamp		Code	Type	IP address	Job	User
Number	Program	User	ID	Cmd		
Profile Check						
20090518081732155000		T	CP	10.168.81.25	QZSOSIGN	QUSER
256705	QZSOSIGN	QUSER		CHG		
EVELYN *PASSED						
20090518082417450000		T	CP	10.168.80.245	QZSOSIGN	QUSER
256705	QZSOSIGN	QUSER		CHG BRUCE		
*PASSED						
20090518093203269000		T	CP	10.168.80.245	QZSOSIGN	QUSER
257299	QZSOSIGN	QUSER		CHG		
DANNYP *PASSED						
20090518112633864000		T	CP	10.168.81.60	QZSOSIGN	QUSER
258004	QZSOSIGN	QUSER		CHG		
GEORGE *PASSED						
20090518122452628000		T	CP	10.168.81.66	DSP021	LARRY
256915	QCMD	LARRY		CRT SEANC		
*SYSVAL						
20090518131805314000		T	CP	10.168.81.66	DSP225	ERWIN
256915	QCMD	ERWIN		CHG JEFF1		
*PASSED						

20090518163220940000	T	CP	10.168.81.25	QPADEV0001	CHRISH
259523 QMNCGPWD	CHRISH		CHG		
CHRISH	*EXITPGM				
20090518164032958000	T	CP	10.168.81.66	DSP225	ERWIN
256915 QCMD	ERWIN		CRT		
DHENLEY	*PASSED				
20090518165839789000	T	CP	10.168.81.66	QPADEV0027	MELB
256915 QCMD	MELB		CHG		
JIMMYP	*SYSVAL				

The following sources are involved in creating the PRTPWDAUD command:

- CBX988 -- RPGLE -- Print Password Audit Report - CPP
- CBX988H -- PNLGRP -- Print Password Audit Report - Help
- CBX988X -- CMD -- Print Password Audit Report
- CBX988M -- CLP -- Print Password Audit Report - Build command

Compile and run the CBX988M CL program following the instructions in the source header to have the PRTPWDAUD command created for you.

#### IBM Documentation:

[Exit point QIBM QSY CHK PASSWRD documentation](#)

[Audit journal entry code/type 'T'/'CP' documentation](#)

#### Previously published article

[Programming for the V5R4 Check Password Exit Point Program](#)

[You Can Download the Source Code here!](#)

**Source URL:** <http://iprodeveloper.com/systems-management/custom-command-prtpwdaudprint-password-audit-report>