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Group Count Archive for ScanNet

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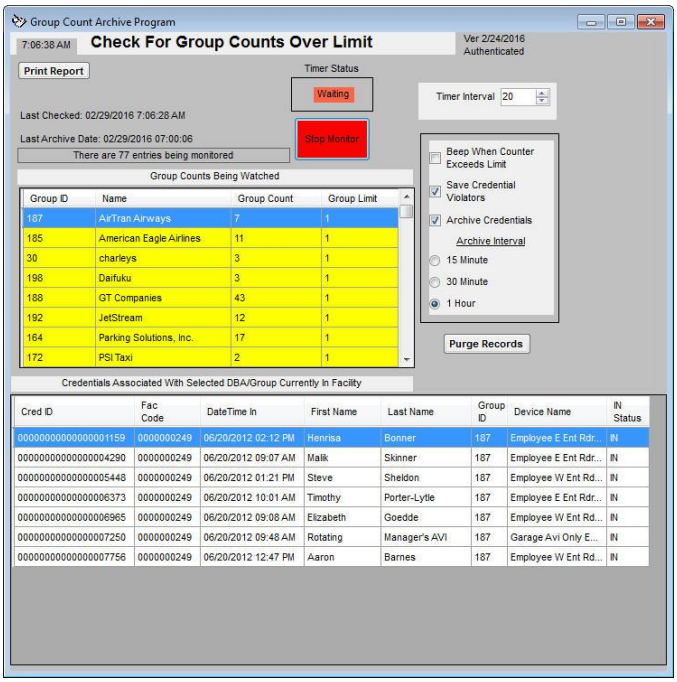
Overview

The ScanNet Group Count Archive program monitors DBA/Group Counts set-up in ScanNet. The actual group counts are maintained by ScanNet. See the ScanNet users guide for setup of the group counts.

On a selected interval (15 minutes, 30 minutes or 1 hour) the counts are archived to a specified table defined in the ScanNet database. The current count along with the minimum and the maximum count achieved in the archive period are captured. If the option 'Save Credential Violators' is checked and the group is in overuse, then the program will archive the list of the credentials associated with the group.



Program can be run on any workstation that has access to the ScanNet database.

In addition to monitoring the group counts, the program can also beep whenever any group is at or over its limit and highlight the entry in the monitoring window.

Installation is simple. Run the SETUP program on the provided CD. On first run of the program, the set-up will automatically take place in the ScanNet database.

Operations are simple as well. After launching the program, the user simply clicks the 'Start Monitor' button. The program will ask if you want to perform an immediate archive. It is up to the operator if they want to perform that archive.

There are archive options on the screen that the operator can adjust. 'Timer Interval' is the number of seconds between checks of the group counts. 'Beep When Counter Exceeds Limit' check box will activate or silence the beep for group overuse. 'Save Credential Violators' check box will save the violators when checked or not document them if unchecked. 'Archive Credentials' check box will archive all the credentials if the box is checked. 'Archive Interval' sets the frequency of archiving the counts.

Another feature is the ability to 'watch' which credentials are currently considered 'IN' for a select DBA/Group. If a group on the 'Group Counts Being Watched' is highlighted in yellow (shown above), it means the group is over its limit. If the operator clicks on a group in the 'Group Counts Being Watched' grid, then the grid below, 'Credentials Associated with DBA/Group Currently in Facility,' will display the credentials associated with that group. These credentials will be continuously updated each time the 'Timer Interval' is reached.

Note that the group that was selected will not be highlighted, but the credentials associated with it will appear in the grid below.

The 'Purge Records' button, located on the right hand side, allows the user to purge old data associated with group counts. More details can be found in the 'Purge Data' subsection of 'Operations' in this document.

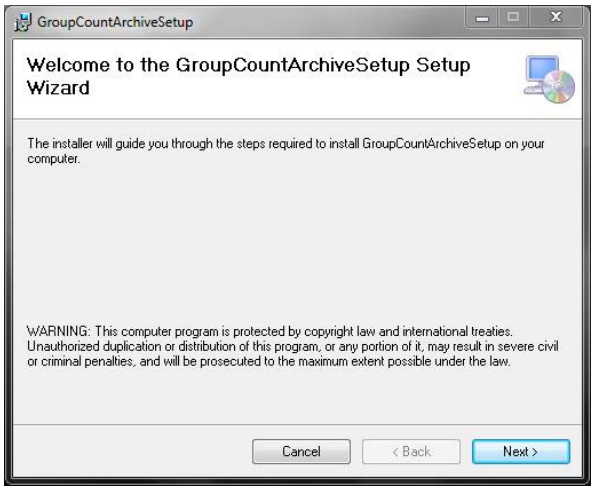
The 'Print Report' button in the upper left hand corner will allow the operator to print or export various reports for group counts. More details can be found in the 'reports' section of this document.

Prerequisites

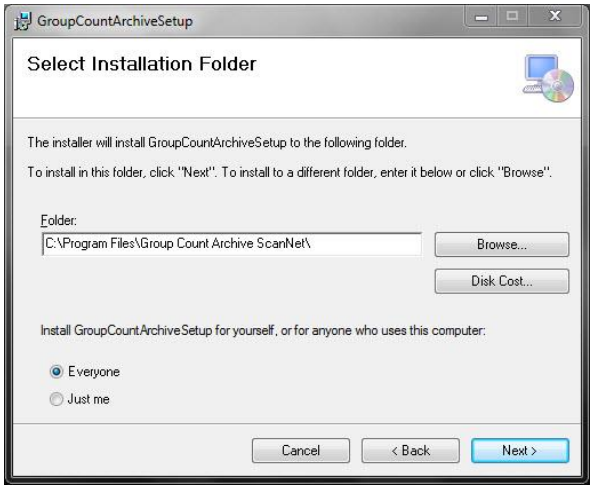
The system requires that ScanNet has been purchased and is installed. All DBA/groups have been defined and credentials associated with the DBA/Group desired.

Installation

Double click the setup.exe file. The following screen will appear:

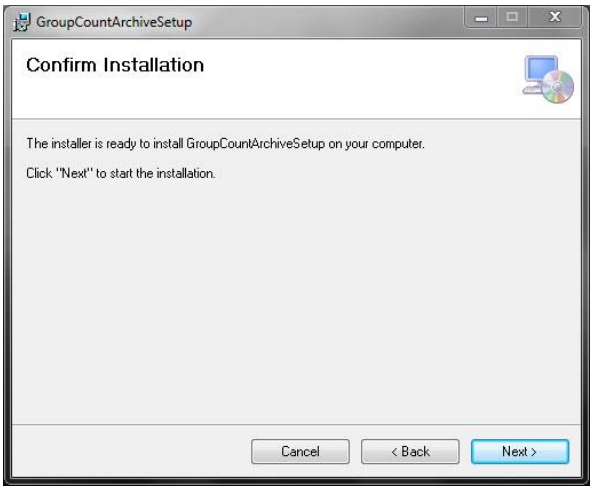


Click 'Next' , the following screen will appear:



The user can determine where the application will install by clicking 'Browse', then selecting a folder. The user can also specify who can use this specific interface by clicking one of the two options, 'everyone' or 'just me'. After the necessary changes are made, click 'next'.

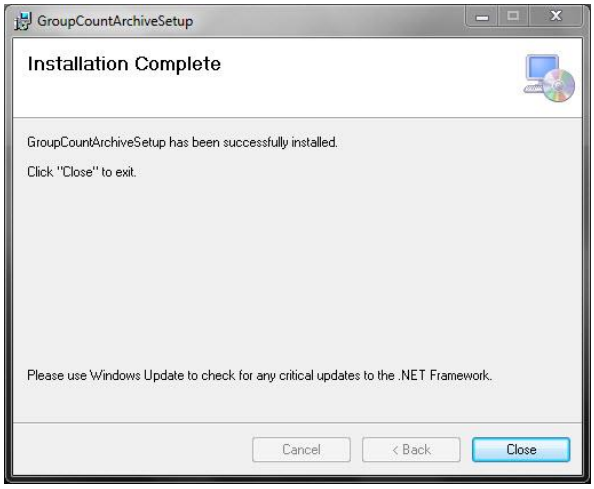
The following screen will appear:



To continue with the installation, click 'next'. (If changes need to be made for the installation destination or who can use the interface, press the 'back' button.)

The application setup will take a few moments to install. Progress of the installation will be shown in the rectangular bar with the message of 'please wait'.

Once completed the next screen will automatically be displayed, as shown below:

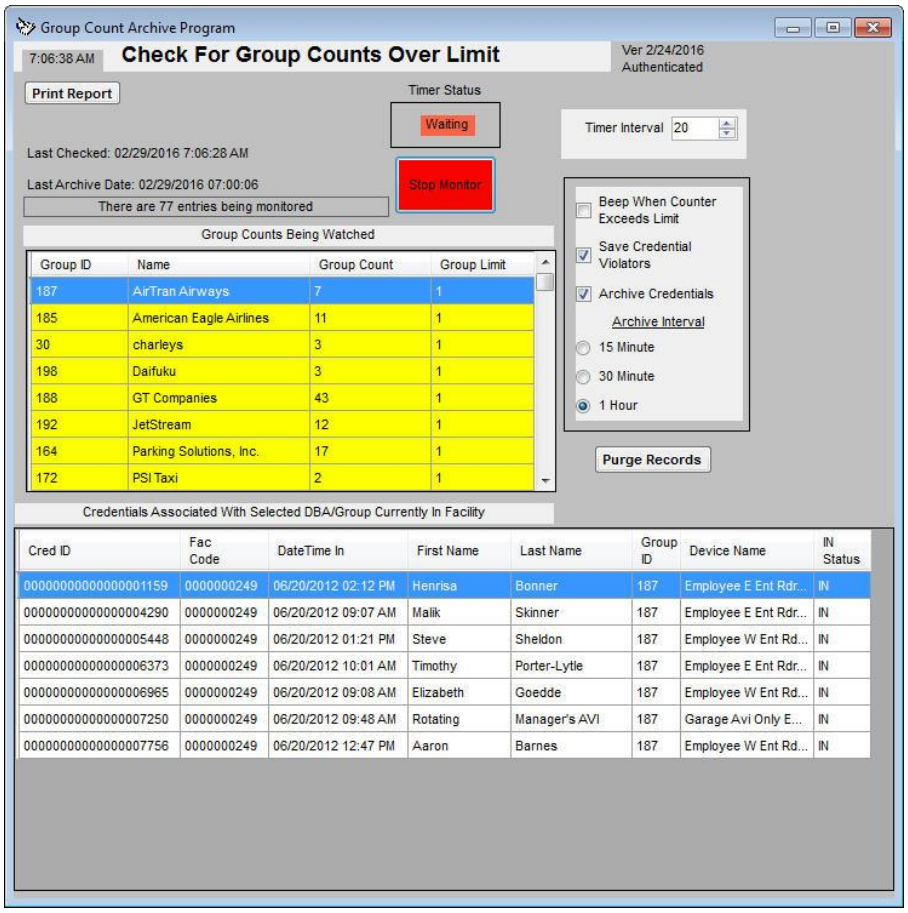


Click 'close' to exit the installation program. ScanNet Group Count Archive is now installed.

An icon will appear on the desktop, as shown to the right. Group Count Archive version is now installed on the computer. Double click the icon to load the program.

Setup Parameters

All setup parameters are contained on the monitoring form. This form (shown below) opens automatically after the user has successfully logged into the ScanNet database.



Timer Interval: This is the interval for the program to check for changes in the group counts. The value is in seconds with a maximum of 60 seconds. This is in relation to the frequency that activity occurs and the last checked date and times are updated.

Beep When Counter Exceeds Limit: When the box is checked at every timer interval the program will beep for every group that is currently exceeding the group limit.

Save Credential Violators: If the box is checked, at each timer interval, the program will record if the group count has changed and if the count has exceeded the group limit. All the 'IN' credentials associated with the violating group will be written to the appropriate table in the group count archive database.

Archive Credentials: If the box is checked, whenever the group counts are archived the program will also archive all credentials currently 'IN' the facility that are assigned to a group.

Archive Interval: This is the frequency that group counts are stored. This should be matched with the interval defined for archiving the gate and lane counts in ScanNet. Depending on the selection, the archive will take place on the interval. For example, if 1 hour is selected then the archive will occur on the hour, regardless of when the monitor was initially started.

Start/Stop Monitor Button: Used to begin the monitoring program or to stop it from monitoring.

Print Reports: Opens the report form, where the user can select from various reports and group count archive report parameters. See reporting section for more details.

Group Counts Being Watched: Displays a list of all the groups being monitored. Shows group ID, group name, group count & limit.

Credentials Associated with DBA/Group Currently in Facility: When the user single clicks on a group listed under 'group counts being watched', all the credentials associated with that group are displayed in this window. This includes the credential ID, facility code, date and time in, first and last name of the parkers, as well as the group ID, device name, and IN status.

Purge Records: Allows user to remove all stored data prior to a specified date.

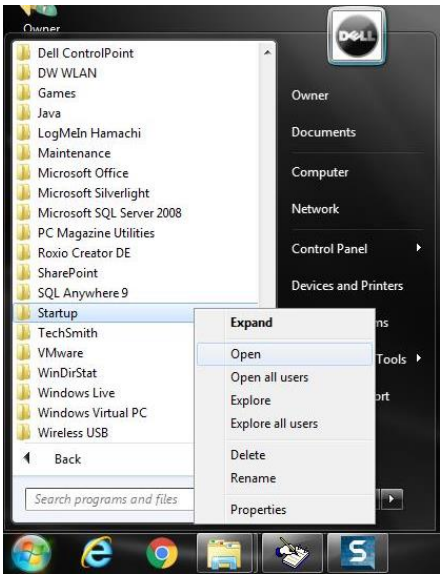
How to Set Automatic Group Monitoring

Users have the ability to begin group monitoring automatically and have the counts archived. This is done by adding the Group Count Archive application to the Windows startup menu and by creating a shortcut with a command line prompt which will start monitoring credentials when the application loads.

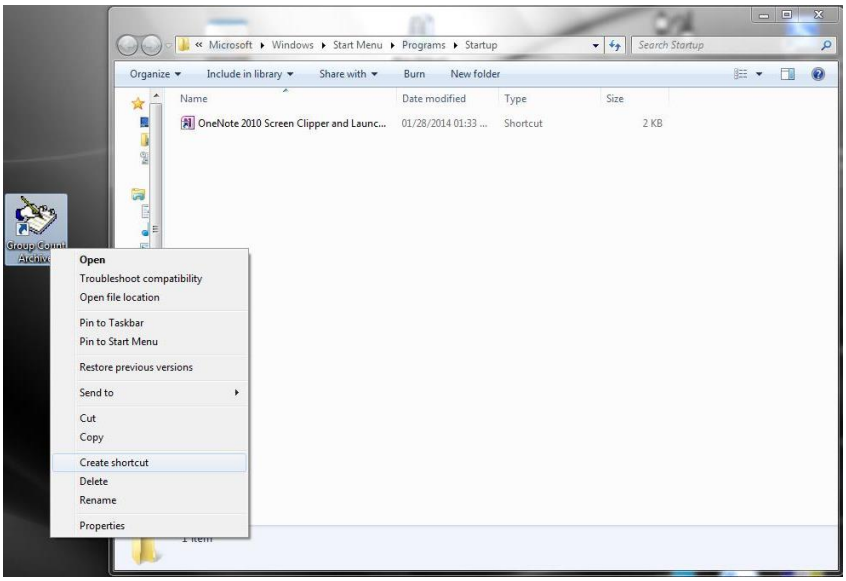
1. To have the program run at the startup of Windows, perform the following steps.

   a. Click the 'Start' button (shown right).

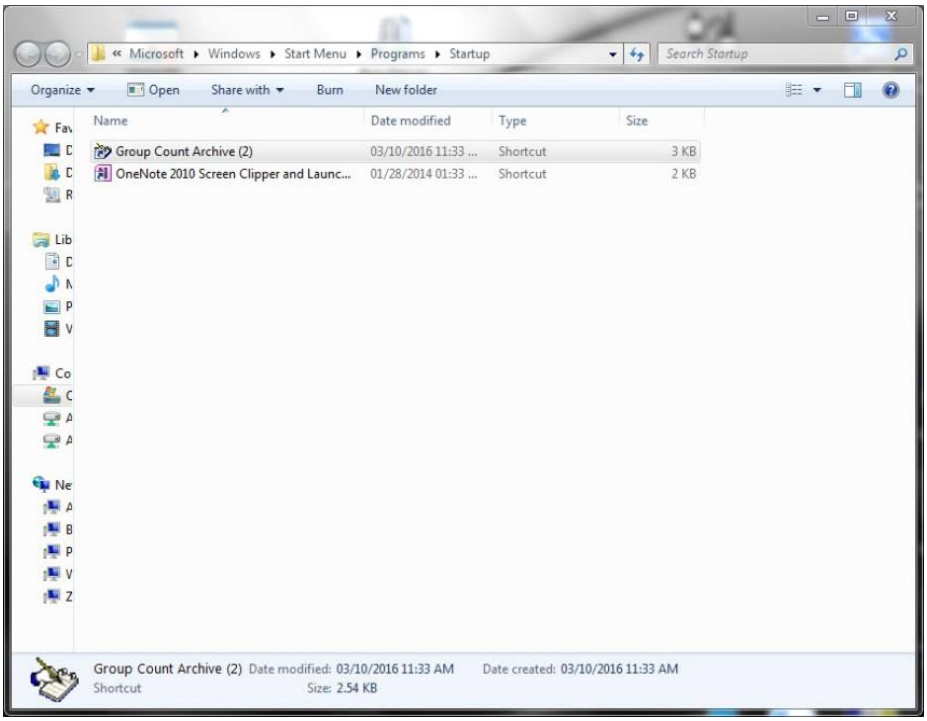
   b. Select 'All Programs', find the 'Startup' folder. Right click the folder then select 'Open', as shown below.



   c. Go to the location the program was installed. Select the 'GroupCountArchive.exe', right click over it then select 'Create Shortcut'. A shortcut with the file name will be created in the same location as the original file.

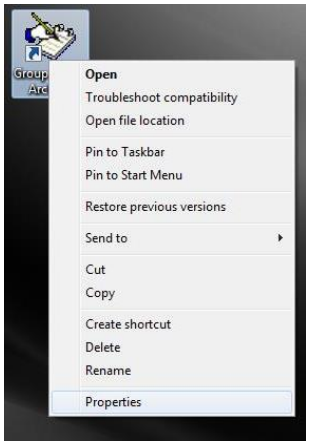


d. Drag the new shortcut, ‘Group Count Archive’, into the startup folder.

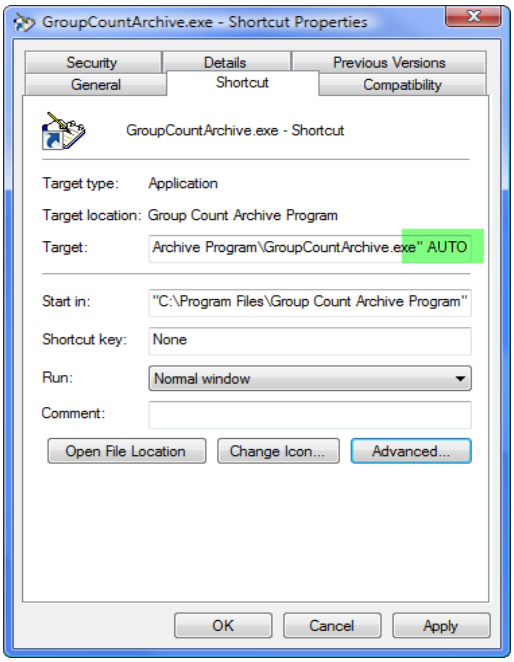


2. To begin monitoring group counts automatically the user must set up a command line prompt, as shown below.

a. Find the program shortcut. Right click the icon and select 'Properties'.



b. Select the 'Shortcut' tab from the tab options. Under the 'Target' section, type a command line of 'AUTO' at the end of the program name, as shown below. Click 'Apply' to save the new settings.



The Group Count Archive program will now automatically begin monitoring group counts when Windows loads.

Operations

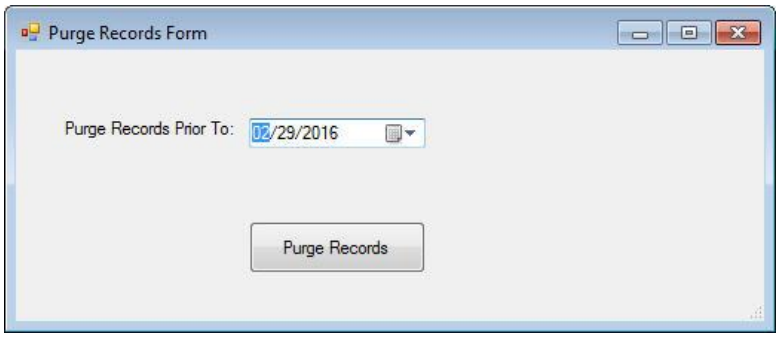
When the program is opened manually, the user needs to click the 'start 'button, located on the top middle of the archive form. Once the button is clicked, the program will ask the user if they want to archive the counts. If 'yes' is selected, then the group counts will be archived.

The Group Count Archive program must be running at all times in order to be able to archive the group counts. The application can be minimized. Program can be setup such that it will restart anytime the ScanNet server is restarted.

When the program is active it will look at the time clock. If the specified time interval has been reached the program will archive all group counts. If the 'archive credentials' box has been checked on the form, it will also record all credentials 'IN' the facility for all the groups. It will also simultaneously look at the current counts for each group. If the count exceeds the specified threshold for a group , the program will save all credentials associated with the group that are currently 'IN' the facility, highlight the group in the list so the operator can visually see which counts are over limit, and perform all other normal operations related to Group Counts. If the 'beep with count exceed limit' box is checked, the program will also beep.

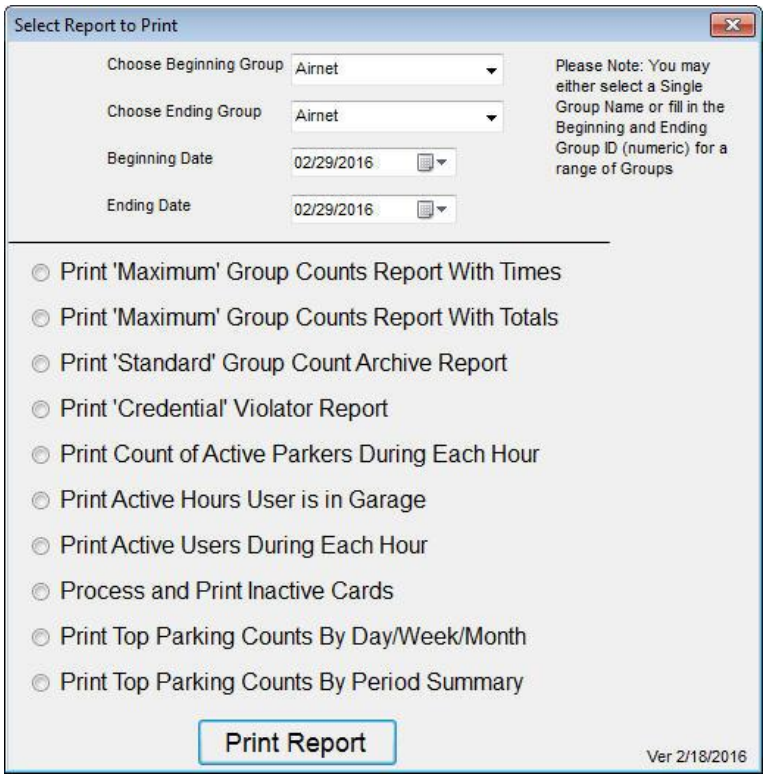
Purge Data

This feature allows the user to purge old data associated with group counts. On the archive form, click 'purge data'. A box will pop up, the user must choose a date to purge data from, and then click 'purge data'. All data prior to the selected date will be purged from their respective table.



Reporting

There are seven different reports that can be generated from the captured data. Reports can be generated while the monitor is running. To get to the report menu, click the 'Print Reports' button located in the upper left corner of the monitor form. The report form will pop up, as shown below.



To generate a report, the user must select a beginning & end date, beginning & end groups, as well as the type of report to view. Once these fields have been filled in, click the 'print report' button on the bottom. A crystal report will be generated. From there, the user can print or export the report. Exporting options include PDF, Excel spreadsheet, or a Word document.

The report beginning and end group can be defined a few different ways. The user can either select a group name from the pull down arrow on the left side of the text box, or the user can manually enter in the group number. It is recommended that for a single group, the pull down menu would be more effective since the end group will initially match the selected beginning group. For selecting all groups or a wide range of groups, the more effective method would be to type in the group id. The choice is ultimately up to the user since either method will produce an accurate report.

Samples of each available report can found below.

Please Note: All of the reports will only report on data archived by the program. If the program is not running, then no data will be found for that period.

Maximum Group Counts Report With Times

This report shows the maximum DBA/Group Counts by hour. The count for each selected group is summarized hourly, on the hour and at the time the maximum count occurred.

Note: This is done regardless of the archive interval selected at startup.

Maximum DBA/Group Counts By Hour

beginning group: 10 beginning archive date: 12/01/2015 Printed on: 12/29/2015
ending group: 9 ending archive date: 12/29/2015

DATE: 12/22/2015

group name / hour of day	AIR	COMPASS GROUP	FLIGHT CREW	GENERAL	LINE MAINTENANCE	MTE	OPERATIONS	RAMP SERVICES
10:00 - 11:00	100 11:40:00AM	6 11:40:00AM	820 11:40:00AM	16 11:40:00AM	12300 11:40:00AM	30 11:40:00AM	900 11:40:00AM	1235 11:40:00AM
Daily - Max	100 11:40:00AM	6 11:40:00AM	820 11:40:00AM	16 11:40:00AM	12300 11:40:00AM	30 11:40:00AM	900 11:40:00AM	1235 11:40:00AM

Maximum Group Counts Report with Totals

This report shows the maximum DBA/Group Counts by hour and a daily total of the maximum count for the group. The count for each selected group is summarized hourly, on the hour and at the time the maximum count occurred.

Note: This is done regardless of the archive interval selected at startup.

Maximum DBA/Group Counts By Hour

Beginning Group: 187 Beginning Archive Date: 02/01/2016 Printed On: 03/03/2016
Ending Group: 46 Ending Archive Date: 03/03/2016

DATE: 02/03/2016

Group Name -> / hour of day	AirTran Airways	American	argenbright	Bernies Group PHX	charleys	Chautauqua	Chocolate Octopus	Continental	COTA	Cup o Joe
15:00 - 16:00	21	24	0	0	9	219	3	33	24	3
16:00 - 17:00	28	32	0	0	12	292	4	44	32	4
17:00 - 18:00	28	32	0	0	12	292	4	44	32	4
18:00 - 19:00	28	32	0	0	12	292	4	44	32	4
19:00 - 20:00	28	32	0	0	12	292	4	44	32	4
20:00 - 21:00	28	32	0	0	12	292	4	44	32	4
21:00 - 22:00	28	32	0	0	12	292	4	44	32	4
22:00 - 23:00	28	32	0	0	12	292	4	44	32	4
23:00 - 00:00	28	32	0	0	12	292	4	44	32	4
Daily - Max	245	280	0	0	105	2,555	35	385	280	35

Standard Group Count Archive Report

This report displays statistics for each archive interval and daily total for each group on a daily basis. Each row contains the archive time, group count, group limit, minimum count for that hour & the exact time it occurred, as well as, maximum count for the hour and the time max occurred.

Group Counts Archive Report

AirTran Airways

archive date	time	group count	group limit	min value	min date/time	max value	max date/time
01/13/2016	09:29 A	7	1	7	01/13/2016 9:29:00AM	7	01/13/2016 9:29:00AM
01/13/2016	09:30 A	7	1	7	01/13/2016 9:29:00AM	7	01/13/2016 9:29:00AM
01/13/2016	09:45 A	7	1	7	01/13/2016 9:44:00AM	7	01/13/2016 9:44:00AM

American

archive date	time	group count	group limit	min value	min date/time	max value	max date/time
01/13/2016	09:29 A	8	200	8	01/13/2016 9:29:00AM	8	01/13/2016 9:29:00AM
01/13/2016	09:30 A	8	200	8	01/13/2016 9:29:00AM	8	01/13/2016 9:29:00AM
01/13/2016	09:45 A	8	200	8	01/13/2016 9:44:00AM	8	01/13/2016 9:44:00AM

argenbright

archive date	time	group count	group limit	min value	min date/time	max value	max date/time
01/13/2016	09:29 A	0	1	0	01/13/2016 9:29:00AM	0	01/13/2016 9:29:00AM
01/13/2016	09:30 A	0	1	0	01/13/2016 9:29:00AM	0	01/13/2016 9:29:00AM
01/13/2016	09:45 A	0	1	0	01/13/2016 9:44:00AM	0	01/13/2016 9:44:00AM

Bernies Group PHX

archive date	time	group count	group limit	min value	min date/time	max value	max date/time
01/13/2016	09:29 A	0	10,000	0	01/13/2016 9:29:00AM	0	01/13/2016 9:29:00AM
01/13/2016	09:30 A	0	10,000	0	01/13/2016 9:29:00AM	0	01/13/2016 9:29:00AM
01/13/2016	09:45 A	0	10,000	0	01/13/2016 9:44:00AM	0	01/13/2016 9:44:00AM

Credential Violator Report

The report shows a list of credential violators for the specified group and date range.

Credential Violator Report

Beginning Date: 01/04/2016 Beginning Group: 187
Ending Date: 01/13/2016 Ending Group: 29

dba or groupid: **187**

date time of violation: **01/13/2016 09:30:58AM**

Aaron Barnes	7756	06/20/2012	12:47:00PI	Rotating Manager's AVI	7250	06/20/2012	9:48:00AN
Elizabeth Goedde	6965	06/20/2012	9:08:00AN	Timothy Porter-Lytle	6373	06/20/2012	10:01:00AI
Steve Sheldon	5448	06/20/2012	1:21:00PN	Malik Skinner	4290	06/20/2012	9:07:00AN
Henrisa Bonner	1159	06/20/2012	2:12:00PN				

count of violations for **01/13/2016 09:30:58AM** **7**

date time of violation: **01/13/2016 09:32:07AM**

Aaron Barnes	7756	06/20/2012	12:47:00PI	Rotating Manager's AVI	7250	06/20/2012	9:48:00AN
Elizabeth Goedde	6965	06/20/2012	9:08:00AN	Timothy Porter-Lytle	6373	06/20/2012	10:01:00AI
Steve Sheldon	5448	06/20/2012	1:21:00PN	Henrisa Bonner	1159	06/20/2012	2:12:00PN
Malik Skinner	4290	06/20/2012	9:07:00AN				

count of violations for **01/13/2016 09:32:07AM** **7**

Count of Active Parkers During Each Hour

For each predetermined archive interval, this report displays the maximum count for each group per interval. Each row displays the time interval, group count, and maximum count.

Note: The time interval is selected in the archive interval setup

Active Parkers During Each Hour

Beginning Date: 02/29/2016 Beginning Group: 187
Ending Date: 03/03/2016 Ending Group: 46

AirTran Airways

Date	Hour	Active Parkers	Max Value
02/29/2016	01:00 AM	7	7
02/29/2016	01:15 AM	7	7
02/29/2016	01:30 AM	7	7
02/29/2016	01:45 AM	7	7
02/29/2016	02:00 AM	7	7
02/29/2016	02:15 AM	7	7
02/29/2016	02:30 AM	7	7
02/29/2016	02:45 AM	7	7
02/29/2016	03:00 AM	7	7
02/29/2016	03:15 AM	7	7
02/29/2016	03:30 AM	7	7
02/29/2016	03:45 AM	7	7

Active Hours User is in Garage

For each hour per day, this report displays each credential's time in the garage. This report is useful for documenting overuse for the organization responsible for a specific group.

Active Hours User Is In Garage

card#	parker name	date	1 am	2 am	3 am	4 am	5 am	6 am	7 am	8 am	9 am	10am	11am	12pm	1 pm	2 pm	3 pm	4 pm	5 pm	6 pm	7 pm	8 pm	9 pm	10pm	11pm	12am
1159	Henrisa Bonner	01/13/2016									x	x														
4290	Malik Skinner	01/13/2016									x	x														
5448	Steve Sheldon	01/13/2016									x	x														
6373	Timothy Porter-Lytle	01/13/2016									x	x														
6965	Elizabeth Goedde	01/13/2016									x	x														
7250	Rotating Manager's AVI	01/13/2016									x	x														
7756	Aaron Barnes	01/13/2016									x	x														

Active Users During Each Hour

This report displays list of credentials that were in the facility for a given archive time.

Active Users During Each Hour

Start Date: 12/01/2015 Beginning Group: 187
End Date: 03/03/2016 Ending Group: 187

Date	Hour	Name	Card Number
12/29/2015	01:00P	Henrisa Bonner	1159
12/29/2015	01:00P	Rotating Manager's AVI	7250
12/29/2015	01:00P	Timothy Porter-Lytle	6373
12/29/2015	01:00P	Elizabeth Goedde	6965
12/29/2015	01:00P	Malik Skinner	4290
12/29/2015	01:00P	Steve Sheldon	5448
12/29/2015	01:00P	Aaron Barnes	7756
12/31/2015	12:42P	Rotating Manager's AVI	7250
12/31/2015	12:42P	Malik Skinner	4290
12/31/2015	12:42P	Aaron Barnes	7756
12/31/2015	12:42P	Steve Sheldon	5448
12/31/2015	12:42P	Elizabeth Goedde	6965
12/31/2015	12:42P	Timothy Porter-Lytle	6373
12/31/2015	12:42P	Henrisa Bonner	1159
12/31/2015	02:06P	Aaron Barnes	7756

Process and Print Inactive Cards

This report displays inactive cards. The report is organized by card number and grabs all inactive cards, the group and date range do not factor into the report data.

Inactive Cards Report

Begin Date: 01/07/2016 Ending Date: 01/13/2016 **Total Count** 4,121

Parker Name	Card #	Validity	Last Access	Group Name
No Patron Name	3	ISSU		Uber Taxi Service
No Patron Name	14	ISSU		Uber Taxi Service
No Patron Name	21	ISSU		CPS/CRAA
No Patron Name	22	ISSU		Uber Taxi Service
No Patron Name	23	ISSU		Uber Taxi Service
No Patron Name	24	ISSU		Uber Taxi Service
No Patron Name	25	ISSU		Uber Taxi Service
No Patron Name	26	ISSU		Uber Taxi Service
No Patron Name	27	ISSU		Uber Taxi Service

Top Parking Counts by Day/Week/Month

This report shows the parking counts per day, week, and month for the specified group and date range.

Top Parking Counts Per Day/Week/Month by Tenant

Beginning Date and Time: 01/01/2016
Ending Date and Time: 03/03/2016

Tenant	Date	Highest 1-Hour Usage	Max Value	Overage	Under
AirTran Airways					
	01/13/2016	7 9:45:59AM	1	6	
Occupancy Avg. for Week:		7	Total Values for Week:	6	
	01/20/2016	7 12:00:41AM	1	6	
	01/21/2016	7 12:45:00AM	1	6	
Occupancy Avg. for Week:		7	Total Values for Week:	12	
Occupancy Avg. for Month:		7	Total Values for Month:	18	
	02/03/2016	7 12:00:06AM	1	6	
	02/04/2016	7 12:45:17AM	1	6	
Occupancy Avg. for Week:		7	Total Values for Week:	12	
	02/24/2016	7 12:00:57AM	1	6	
	02/25/2016	7 12:45:18PM	1	6	
	02/26/2016	7 12:45:53PM	1	6	
Occupancy Avg. for Week:		7	Total Values for Week:	18	

Top Parking Counts By Period Summary

This report shows the parking counts, including the average count, number of parkers allowed, and the over/under of the group for the specified group and date range.

Top Parking Counts By Period Summary

Beginning Date and Time: 01/01/2016
Ending Date and Time: 03/03/2016

Tenant	Period Average Count	Allowed	Over/Under
AirTran Airways	7	1	6
American	8	200	(192)
Bernies Group PHX	0	10,000	(10,000)
charleys	3	1	2
Chautauqua	73	300	(227)
Chocolate Octopus	1	200	(199)
Continental	11	200	(189)
COTA	8	1,000	(992)
Curbside Valet	36	100	(64)
Daifuku	3	1	2
Delta	34	500	(466)
DGS	3	200	(197)
FAA	0	100	(100)
Frontier	0	500	(500)
Globe	0	200	(200)
GT Companies	43	1	42
Jet Blue OBE	0	1	(1)
JetStream	12	1	11