

PCGenesis: Current Status & Future Plans

GASBO

Augusta, GA

November 5, 2020



Richard Woods, Georgia's School Superintendent
"Educating Georgia's Future"

11/5/2020

Incremental Phased Approach

ADVANTAGES

- Minimize disruption to operations
- Provide transparency
- Quickly adjust to issues arising after a release
- Instill confidence in the project

PCGenesis Upgrade Phases

- **DATA - Convert old technology flat files to relational database**
- Implement data change logging
- Convert Cobol report processes to SQL stored procedures
- Implement new technology user interface for reports only
- Move Cobol processes(FAR/Payroll/CPI) to SQL
- Implement new technology user interface for processes

Phased Approach will:

- Minimize disruption to operations
- Provide transparency
- Quickly adjust to issues arising after a release
- Instill confidence in the PCGenesis upgrade project

PCGenesis DATA storage

CURRENT

- 78% : Microfocus Vision
Version 3 Indexed
Sequential
note:
(Version 3 is no longer supported by Microfocus)
- 22% - Microsoft SQL Server
Express Relational
Database

FUTURE

- 99% - Microsoft SQL Server
Express Relational Database
- User friendly Screens

Data Conversion Progress

Financial Accounting & Reporting

\FARDATA\FACILITY	* Completed *
\FARDATA\BANK	* Completed *
\FARDATA\NAME	* Completed *
\FARDATA\ACCOUNT	* Completed *
\FARDATA\ACCOUNTG	* Completed *
\FARDATA\ACCOUNTNR	* Completed *
\FARDATA\SOURCE	* Completed *
\FARDATA\VENDOR	* Completed *
\FARDATA\RECEIPT	* Completed *
\FARDATA\RECEIVE	* Completed *
\FARDATA\PO	2021 Q1
\FARDATA\POPRINT	2021 Q1
\FARDATA\EXPENSE	2021 Q1
\FARDATA\CHEKMSTR	2021 Q1
\FARDATA\WXFER	2021 Q1
\FARDATA\ASSET	
\FARDATA\AUDIT	
\FARDATA\BANKMICR	
\FARDATA\CLAIMCTL	
\FARDATA\CONTROL	
\FARDATA\INVEST	
\FARDATA\JCONTRL	
\FARDATA\JEMASTER	
\FARDATA\MANUALS	
\FARDATA\MONITOR	
\FARDATA\PAYSTATF	
\FARDATA\SNUIFUND	

Personnel

\PERDATA\LGROSDAT
\PERDATA\LVADV
\PERDATA\LVCLASS
\PERDATA\LVHIST
\PERDATA\LVINPUT
\PERDATA\LVSYS
\PERDATA\PERS
\PERDATA\PROCTL
\PERDATA\ACA1095
\PERDATA\DEPENDS
\PERDATA\ACAIRSR
\PERDATA\ACAIRSD

Payroll

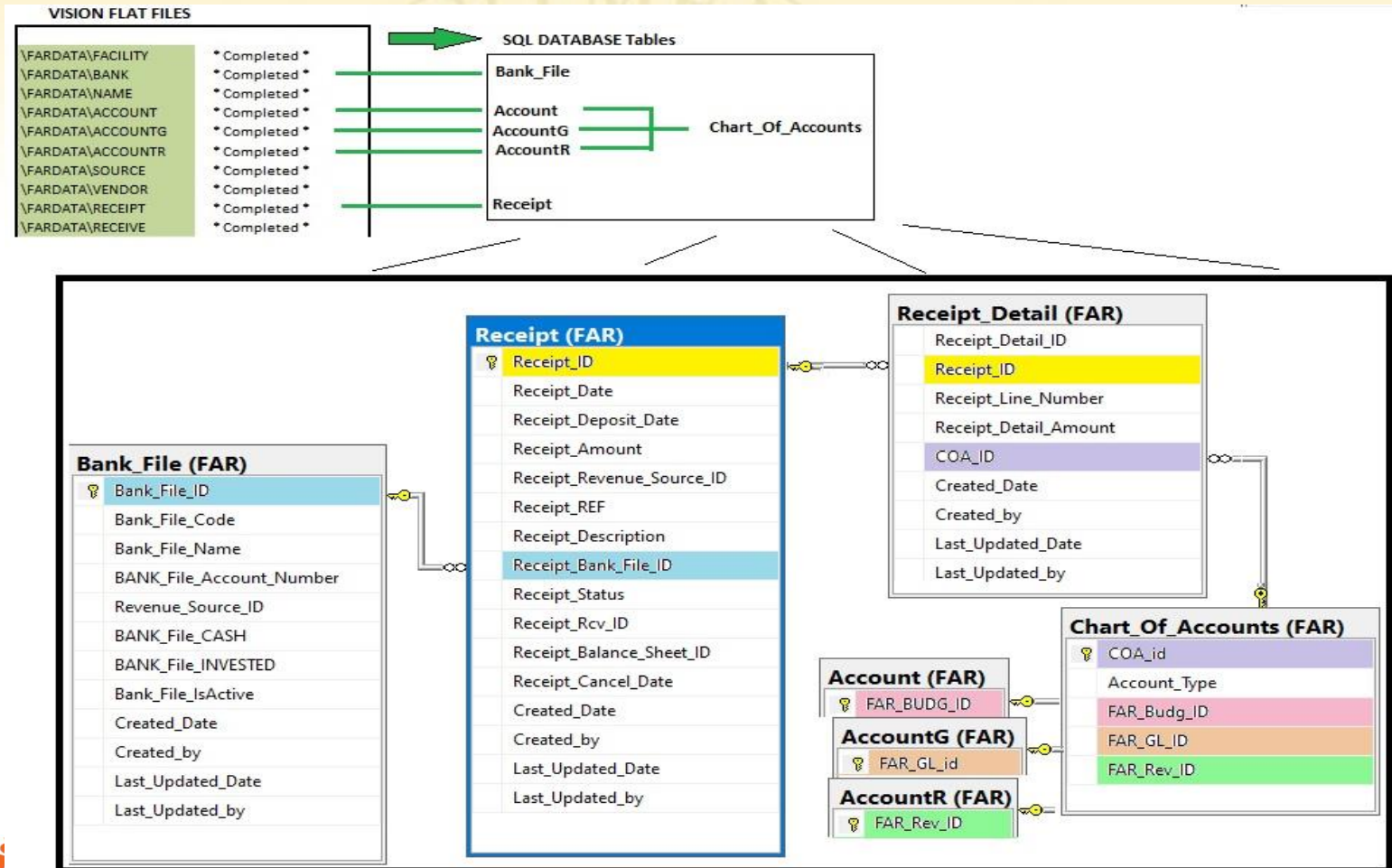
\PAYDATA\ANNUITY
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\PAYDATA\DESCA
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\PAYDATA\GACOUNTY
\PAYDATA\GARVEN
\PAYDATA\GROSSDAT
\PAYDATA\HISTORY
\PAYDATA\MPAYROLL
\PAYDATA\MSG
\PAYDATA\PAYROLL
\PAYDATA\PAYS
\PAYDATA\PAYSTAT
\PAYDATA\PDEDUCT
\PAYDATA\PREVVOID
\PAYDATA\PRSTATE
\PAYDATA\TAXES

CPI

\CPIDATA\CPIFILE
\CPIDATA\CPIPCNTL
\CPIDATA\CPIXREF
\CPIDATA\DESCTBL
\CPIDATA\SALSCHED

Benefit of Data Conversion

- Referential Integrity



Example of Referential Integrity Enforcement #1

Bank File Maintenance

Bank ID

PCG Select Bank Code

Bank ID	Bank Name	Source
10	Bank Added	000004
11	Bank Added	000004
12	CONSTRUCTION	000004
16	Bank Added	000067
17	2010 SERIES CONSTRUCTION SE	000004
18	2010 SERIES DEBT SVS SE	000004
1	SOUTHEASTERN/OPERATING	000004
2	SOUTHEASTERN 1982 BOND MM	000004
3	SOUTHEASTERN BANK PAYROLL	000004
4	SOUTHEASTERN/SALES TAX	000004
5	SOUTHEASTERN/PAYROLL	000004
6	SOUTHEASTERN	000004
7	SOUTHEASTERN SCH NUTRITION	000004
8	SOUTHEASTERN BANK SNP BANQUET	000004
99	SCHOOL ACTIVITY ACCOUNTS	000004
9	SOUTHEASTERN BANK	000004

Done Cancel

** Find Mode **

to Position File F2-First F5-Next F11-Add Record F16-Exit

F1	F2	F5	F9	F11	F12	F15
----	----	----	----	-----	-----	-----

Example of Referential Integrity Enforcement #2

CRITICAL SQL ERROR ENCOUNTERED

Called By: CA09P01
File name: FAR.BANK
SQL Server: DOE-ATENN-W10\SQLEXPRESSPCG;
SQL Database: PCGENESISDB
SQL Procedure: FAR.USP_BANK_FILE_MAINTENANCE
SQL Error Type: 23000
The DELETE statement conflicted with the REFERENCE constraint "FK_Rece

Capture this screen and call the Help Desk. F16 = Exit

Benefit of Data Conversion – Ability to import PCG data to excel

The screenshot shows the Microsoft Excel interface with the 'Data' tab selected. The 'From Other Sources' dropdown menu is open, showing options for connecting to external data sources. A red circle '1' is next to the 'From Other Sources' dropdown, and a red circle '2' is next to the 'From SQL Server' option. Below the ribbon, the 'Table Design' tab is active, showing options like 'Header Row', 'Total Row', and 'Banded Rows'. The data table below has columns for Receipt_ID, Receipt_Date, Receipt_Deposit, Receipt_Amo, RECEIPT_ACCOUNT, Receipt_D, and Receipt_Ban.

	A	B	C	D	E	AS	CL
1	Receipt_ID	Receipt_Date	Receipt_Deposit	Receipt_Amo	RECEIPT_ACCOUNT	Receipt_D	Receipt_Ban
57	5416	2009-10-31	2009-10-31	268.08	10302099901500000000000000000000	268.08	10
59	5418	2009-11-30	2009-11-30	220.66	10302099901500000000000000000000	220.66	10
61	5420	2009-12-31	2009-12-31	267.02	10302099901500000000000000000000	267.02	10
63	5422	2010-01-31	2010-01-31	267.27	10306099901500000000000000000000	267.27	10
67	5426	2010-02-28	2010-02-28	235.96	10302099901500000000000000000000	235.96	10
71	5430	2010-03-31	2010-03-31	260.74	10302099901500000000000000000000	260.74	10
75	5434	2010-04-30	2010-04-30	252.58	10302099901500000000000000000000	252.58	10
79	5438	2010-05-31	2010-05-31	261.24	10302099901500000000000000000000	261.24	10
83	5442	2010-06-30	2010-06-30	253.06	10302099901500000000000000000000	253.06	10
87	5446	2010-07-31	2010-07-31	260.13	11302099901500000000000000000000	260.13	10
91	5450	2010-08-31	2010-08-31	257.34	11302099901500000000000000000000	257.34	10
96	5455	2010-09-30	2010-09-30	242.07	11302099901500000000000000000000	242.07	10
100	5459	2010-10-31	2010-10-31	183.38	11302099901500000000000000000000	183.38	10
1993	253172	2008-07-31	2008-07-31	235.29	09340099901500000000000000000000	235.29	10
1996	253176	2008-08-31	2008-08-31	213	09340099901500000000000000000000	213	10
2001	253182	2008-09-30	2008-09-30	215.59	09302099901500000000000000000000	215.59	10
2004	253185	2008-10-31	2008-10-31	465.42	09302099901500000000000000000000	465.42	10
2007	253188	2008-11-30	2008-11-30	500.21	09302099901500000000000000000000	500.21	10
2012	253193	2008-12-31	2008-12-31	498.65	09302099901500000000000000000000	498.65	10
2018	253199	2009-01-31	2009-01-31	236.59	09302099901500000000000000000000	236.59	10

Rel=18.01.00 10/29/2018 DOE 000 C:\DEV\SVS C:\SECOND CYAN ACCT0200

Budget Account Inquiry

Vr Fnd F Prgm Fnct Objct Fcty B Addt'l
19

PCG Select Budget Account

Option 1. Ent	19-100-0-1021-1000-11300-0138-0-000000 SUBS	0.00
a s	19-100-0-1041-1000-11300-0282-0-000000 SUBS	0.00
	19-100-0-1100-2700-18000-8012-0-000000 INTERSESSION DRIVERS	0.00
Option 2. Ent	19-100-0-1210-2210-81000-0105-3-000000 DUES AND FEES	1,352.30
lin	19-100-0-1210-2210-81000-8010-3-000000 DUES AND FEES	429.30
	19-100-0-1310-2220-11300-0111-0-000000 SUBS	0.00
Option 3. Ent	19-100-0-1310-2220-11300-0138-0-000000 SUBS	0.00
ite	19-100-0-1310-2220-11300-0282-0-000000 SUBS	0.00
	19-100-0-1310-2220-16500-0111-0-000000 MEDIA SPEC	0.00
	19-100-0-1310-2220-16500-0137-0-000000 MEDIA SPEC	0.00
	19-100-0-1310-2220-16500-0138-0-000000 MEDIA SPEC	0.00
	19-100-0-1310-2220-16500-0282-0-000000 MEDIA SPEC	0.00
	19-100-0-1320-2600-89000-8012-7-000000 OTHER EXPENSES	0.00
	19-100-0-1320-2600-89000-8013-7-000000 OTHER EXPENSES	0.00
	19-100-0-1320-2700-11400-8012-0-000000 SUBS	0.00
	19-100-0-1320-2700-14200-8012-0-000000 CLERICAL	1,207.35

Filter string for account: Account
Vr Fnd F Prgm Fnct Objct Fcty B Addt'l Status Filter
19 XXX X XXXX XXXX XXXX XXXX X XXXXXX A

Account Inquiry = F14 = Help for Acct Codes, F16 = EXIT

F1 F2 F3 F4 F5 F6 F7 F8 F9 F10 F11 F12 F13 F14 F15 17.01.00

Rel=18.01.00 10/29/2018 DOE 000 C:\DEV\SVS C:\SECOND CYAN ACCT0200

Budget Account Inquiry

Vr Fnd F Prgm Fnct Objct Fcty B Addt'l Begin Date End Date Status
19 603 0 9600 3100 61000 0282 0 000000 7/01/18 6/30/19 A

Title: HS Supplies
Fund Balance Acct: 740

Org Budget	Budget	Expended
29,000.00	2,416.66	1,866.23
	Aug 2,416.67	508.30
	Sep 2,416.67	
Adj Budget 29,000.00	Oct 2,416.67	
Claims 161.00	Nov 2,416.67	
Disbursed 2,213.53	Dec 2,416.67	
	Jan 2,416.66	
Ttl Expended 2,374.53	Feb 2,416.67	
Encumbered 0.00	Mar 2,416.66	
Balance 26,625.47	Apr 2,416.67	
	May 2,416.66	
	Jun 2,416.67	
	Total 29,000.00	2,374.53

Budget 033% *****
Expend 088% ****

F16=Exit, F17=Print Screen

F1 F2 F3 F4 F5 F6 F7 F8 F9 F10 F11 F12 F13 F14 F15 17.01.00

Financial Accounting & Reporting Payroll Personnel CPI Help Setup

Financial Account Inquiry

Year: 2019

Fund 603 - SFS-MCHS Program 9600 - SFS UNDISTRI. Function 3100 - EXP SCHOOL NUTR

Filter Object Select Object... Facility/Building Select Facility/Building...

Line	YY Fnd Prgm Fnct Objct Fcty B Addt'l	Account Name	Budget	Expended	Remaining	Status
9.	19-603-0-9600-3100-33200-0282-0-000000	HS FP	49.00	0.00	0.00	A
10.	19-603-0-9600-3100-41000-0282-0-000000	HS Water/Sewer	300.00	25.00	0.00	A
11.	19-603-0-9600-3100-43000-0282-0-000000	HS Rep/Maint.	10,000.00	1,155.52	0.00	A
12.	19-603-0-9600-3100-49000-0282-0-000000	HS Purch/prof	0.00	0.00	0.00	A
13.	19-603-0-9600-3100-52000-0282-0-000000	HS Ins Bonds	500.00	200.00	0.00	A
14.	19-603-0-9600-3100-53000-0282-0-000000	HS Postage & phone	50.00	0.00	0.00	A
15.	19-603-0-9600-3100-58000-0282-0-000000	HS Travel	100.00	0.00	0.00	A
16.	19-603-0-9600-3100-59100-0282-0-000000	HS Commodity Hauling	1,200.00	0.00	0.00	A
17.	19-603-0-9600-3100-61000-0282-0-000000	HS Supplies	29,000.00	2,374.53	0.00	A
18.	19-603-0-9600-3100-61100-0282-0-000000	HS Computer Supplies	100.00	0.00	0.00	A
19.	19-603-0-9600-3100-61200-0282-0-000000	HS Computer Software	0.00	0.00	0.00	A
20.	19-603-0-9600-3100-61500-0282-0-000000	HS Exp Equip	0.00	0.00	0.00	A
21.	19-603-0-9600-3100-61600-0282-0-000000	HS comp. equip	1,000.00	0.00	0.00	A
22.	19-603-0-9600-3100-62000-0282-0-000000	HS Electricity	10,000.00	0.00	0.00	A
23.	19-603-0-9600-3100-63000-0282-0-000000	HS Food Purchased	215,000.00	0.00	0.00	A
24.	19-603-0-9600-3100-63500-0282-0-000000	HS Food Acquisitions USDA	43,811.00	0.00	0.00	A
25.	19-603-0-9600-3100-73000-0282-0-000000	HS Other Equip.	10,000.00	0.00	0.00	A
26.	19-603-0-9600-3100-73400-0282-0-000000	HS Purch. Comp.	0.00	0.00	0.00	A
27.	19-603-0-9600-3100-81000-0282-0-000000	HS Registration	1,900.00	0.00	0.00	A
28.	19-603-0-9600-3100-89000-0282-0-000000	HS Other Exp.	600.00	0.00	0.00	A

< Prev Page 1 of 1 Next > 1 Display 50 records per page. Go to Page: 1 Go 28 record(s) meeting criteria.

YY Fnd Prgm Fnct Objct Facility/B Addt1	Begin Date	End Date	Status
19 603 9600 3100 61000 0282 0 000000	07/01/2018	06/30/2019	A

Title: HS Supplies
Fund Balance Acct: 740

	Budget	Expended
Original Budget	29,000.00	1,866.23
----- Accrual Based -----		508.30
Adjusted Budget	29,000.00	
Claims 161.00	Nov 2,416.67	
Disbursed 2,213.53	Dec 2,416.67	
	Jan 2,416.66	
Total Expended	2,374.53	
Encumbered 0.00	Mar 2,416.66	
Remaining Funds	26,625.47	
	Apr 2,416.67	
	May 2,416.66	
	Jun 2,416.67	
Total	29,000.00	2,374.53

Budget 33%
 Expend 8%
 19-603-0-9600-3100-61000-0282-0-000000

Expenditure Detail Report: [Icon]

Detail of Expenditure Report: 19-603-0-9600-3100-61000-0282-0-000000

25502

Report Date: 10/29/2018 11:06:47 AM Page 1 of 1

Print Print Layout Page Setup Excel PDF Word

DETAIL OF EXPENDITURES BY ACCOUNT

ACCOUNT: 19-603-0-9600-3100-61000-0282-0-000000

VENDOR-SEQ	VENDOR NAME	DATE	AMOUNT	TOTAL CLAIM	STATUS	CHECK NO
00112234-9876	ACME Corporation	07/18/2018	154.00	154.00	PAID	14183
12123452-6543	Lunchables Inc.	07/18/2018	161.00	161.00	PAID	14180
23215489-0922	Lead Pencil Supplies Inc.	08/03/2018	161.00	161.00	OPEN	
23154683-4318	Peoples Paper LLP	07/16/2018	46.00	107.00	PAID	14172
45831795-3218	Myers Cables	07/20/2018	144.04	144.04	PAID	14186
27651908-9080	Frontier & Company	08/01/2018	118.33	118.33	PAID	14215
23570883-0909	Nexus Supplies	08/06/2018	191.52	351.66	PAID	14218
34265667-4325	Roundtree & Squaretree	07/30/2018	1,105.36	2,332.28	PAID	14199
12436767-2536	Diamond Pearl LLP	07/26/2018	161.00	161.00	PAID	14194
34563214-4532	AT&T	08/03/2018	132.28	132.28	PAID	14217
56789436-3457	Best Landscaper	07/31/2018	94.83	94.83	CANCELLED	
****TOTAL****			2,469.36			



List/Show Personnel

Active Inactive Terminated
 CPI Not CPI
 Employee 3rd Party Contractor

Name/SSN: Filter

Line	Name	SS Num	Status	CPI	Emp	3rd
10.	Armstrong, Christopher Everett	155 55 5119	Active	Y	Y	N
11.	Arroyo, Emerson Terrence	438 55 3888	Active	Y	Y	N
12.	Ashley, Jeremiah Terrell	817 55 1787	Active	Y	Y	N
13.	Atkins, Scarlett Taylor	165 55 5542	Active	Y	Y	N
14.	Avery, Jonathan Jeffrey	197 55 9762	Active	Y	Y	N
15.	Ayala, Kyler Harold	624 55 2412	Active	N	Y	N
16.	Baker, Amelia Rosemary	402 55 0292	Active	Y	Y	N
17.	Baldwin, Celia Marie	687 55 8706	Active	N	Y	N
18.	Barker, Luke Brandon	834 55 3499	Active	N	Y	N
19.	Barnett, Timothy Sidney	142 55 2941	Active	Y	Y	N
20.	Barrera, Desmond Richard	206 55 6271	Active	Y	Y	N
21.	Barrera, Joseph Wilson	228 55 8987	Active	Y	Y	N
22.	Barrett, Ruben Michael	186 55 6199	Active	Y	Y	N
23.	Barron, Lillian Edith	165 55 5834	Active	N	Y	N
24.	Bass, Marvin Sidney	110 55 0590	Active	Y	Y	N
25.	Bates, Clarence Adrian	127 55 7428	Active	Y	Y	N
26.	Bates, Roger Jared	782 55 8235	Active	N	Y	N
27.	Baxter, Alma Lillianna	131 55 1945	Active	Y	Y	N
28.	Baxter, Fletcher Marcos	157 55 7362	Active	Y	Y	N
29.	Baxter, Mark Jude	123 55 3911	Active	Y	Y	N
30.	Bean, Barbara Cecilia	851 55 5180	Active	Y	Y	N
31.	Bean, Belinda Tess	364 55 6435	Active	Y	Y	N
32.	Beck, Yadira Anna	950 55 5090	Active	N	Y	N
33.	Becker, Marie Adeline	922 55 2289	Active	Y	Y	N
34.	Beltran, Anna Rosemary	179 55 9190	Active	Y	Y	N
35.	Benitez, Ernest Kenny	298 55 6007	Active	Y	Y	N
36.	Benson, Deborah Cristal	100 55 0696	Active	Y	Y	N
37.	Bentley, Jane Edith	190 55 0238	Active	N	Y	N
38.	Benton, Graham Derick	172 55 2184	Active	Y	Y	N
39.	Berry, Derick Jeremy	213 55 3057	Active	Y	Y	N

564 met search criteria.

*** Active *** **Becker, Marie Adeline** 922-55-2289

BUS DRIVER - SEP: SUBSTITUTE PERSONNEL

Person Information Employment Record CPI Information Earnings History Education/Experience

Person Information

Prefix: First Name: Middle: Last Name: Suffix:

SSN: Birth Date: Gender: Male Female Marital Status: Married Single Death Date:

Address: Street address (Line 1): (Line 2):
 City: State: Zip: -

County:

Contact: Home Phone: Cell Phone: E-mail:

Demographic EEO-5 and CPI Ethnic/Race: Ethnic:

Hispanic/Latino Ethnicity Race (Select all that apply): Am Indian Alaskan Black White Asian Hawaiian Pacific

The Hispanic/Latino Ethnicity field is necessary in order to support EEO-5 reporting and file transmission to the Federal government.
The Race field is necessary in order to support EEO-5 reporting and file transmission to the Federal government.

Status



List/Show Personnel

Active Inactive Terminated CPI Not CPI

Employee 3rd Party Contractor

Name/SSN:

Filter

Line	Name	SS Num	Status	CPI	Emp	3rd
1.	Acosta, Charlotte Catherine	526 55 2605	Active	Y	Y	N
2.	Acosta, Jadon Tanner	159 55 9322	Active	Y	Y	N
3.	Alexander, Javon Robert	646 55 4698	Active	Y	Y	N
4.	Allison, Elliot Graham	705 55 8697	Active	Y	Y	N
5.	Alvarado, Desmond Conrad	395 55 9535	Active	Y	Y	N
6.	Alvarez, Jeremy Ethan	165 55 5891	Active	N	Y	N
7.	Anderson, Kylan Kaleb	585 55 8557	Active	N	Y	N
8.	Andrews, Bernard Wilson	160 55 0171	Active	N	Y	N
9.	Anthony, Graham Alexander	737 55 3706	Active	N	Y	N
10.	Armstrong, Christopher Everett	155 55 5119	Active	Y	Y	N
11.	Aroyo, Emerson Terrence	438 55 3888	Active	Y	Y	N
12.	Ashley, Jeramiah Terrell	817 55 1787	Active	Y	Y	N
13.	Atkins, Scarlett Taylor	162 55 5542	Active	Y	Y	N
14.	Avery, Jonathan Jeffrey	197 55 9762	Active	Y	Y	N
15.	Ayala, Kyle Harold	624 55 2412	Active	N	Y	N
16.	Baker, Amelia Rosemary	402 55 0292	Active	Y	Y	N
17.	Baldwin, Celia Marie	687 55 8706	Active	N	Y	N
18.	Barker, Luke Brandon	834 55 3499	Active	N	Y	N
19.	Barnett, Timothy Sidney	142 55 2941	Active	Y	Y	N
20.	Barrera, Desmond Richard	206 55 6271	Active	Y	Y	N
21.	Barrera, Joseph Wilson	228 55 8987	Active	Y	Y	N
22.	Barrett, Ruben Michael	186 55 6199	Active	Y	Y	N
23.	Barron, Lillian Edith	165 55 5834	Active	N	Y	N
24.	Bass, Marvin Sidney	110 55 0590	Active	Y	Y	N
25.	Bates, Clarence Adrian	127 55 7428	Active	Y	Y	N
26.	Bates, Roger Jared	782 55 8235	Active	N	Y	N
27.	Baxter, Alma Lillianna	131 55 1945	Active	Y	Y	N
28.	Baxter, Fletcher Marcos	157 55 7362	Active	Y	Y	N
29.	Baxter, Mark Jude	123 55 3911	Active	Y	Y	N
30.	Bean, Barbara Cecilia	851 55 5180	Active	Y	Y	N
31.	Bean, Belinda Tess	364 55 6435	Active	Y	Y	N
32.	Beck, Yadira Anna	950 55 5090	Active	N	Y	N
33.	Becker, Marie Adeline	922 55 2289	Active	Y	Y	N

564 met search criteria.

*** Active ***

Becker, Marie Adeline

922-55-2289

BUS DRIVER - SEP: SUBSTITUTE PERSONNEL

Person Information Employment Record CPI Information Earnings History Education/Experience

Employment Record Log

Emp ID	Status	Job Description	Primary Work Location	Hire Date	Termination Date	Re-Hire Date
1. 791	Active	BUS DRIVER - SEP	TRANSPORTATION FACILITY	09/12/1979		
2. 30791	Active	SUBSTITUTE PERSONNEL	SUBSTITUTE PERSONNEL	08/01/2012		
3. 90791	Terminated	PARAPROFESSIONAL - SEP	RANDOM COUNTY PRIMARY SC...	09/12/1979	05/30/2012	

Employment Record

Record Status: **A - Active** Emp No. 791

Job Information Pay Processing Setup Health Insurance Tax/Pension Withholding Deductions Leave Y-T-D

Job Information

Rehire Date: Termination Date: Eligible for Rehire? Include on CPI? Sick Bank Participant?

Hire Date: 9/12/1979

Background Check Date:

Pay Location: 8012 - TRANSPORTATION FACILITY

Primary Work Location: 8012 - TRANSPORTATION FACILITY

Annual Work Days: 178

Hours Per Day: 4 Days Per Week: 5 Hours Per Week: 20 Months/Yr: 10

Job Description: 000016 - BUS DRIVER - SEP

PERS Job Description: 000016 - BUS DRIVER - SEP

EEO5 Job Code: A16 - Service Workers

Job Classification: 000016 - BUS DRIVER - SEP

TRS Job Classification: Unknown

Certified Status: Non-Certified

Instructional Status: Non-Instructional

Paraprofessional Status: Non-Paraprofessional

Number of Pay Periods: 12

Work Schedule: Full Time

Substitute Pay Rank: Not Applicable

Salary

Cycle Gross: 962.04
 State of GA funded Annual Salary:
 Locally funded Annual Salary: 11,544.43
 Other Funded Annual Salary:
 Contracted Total Annual Amount: 11,544.43

Override_Exempt_from_Leave_Accrual?

Leave Reason maximum Days: 0.0000

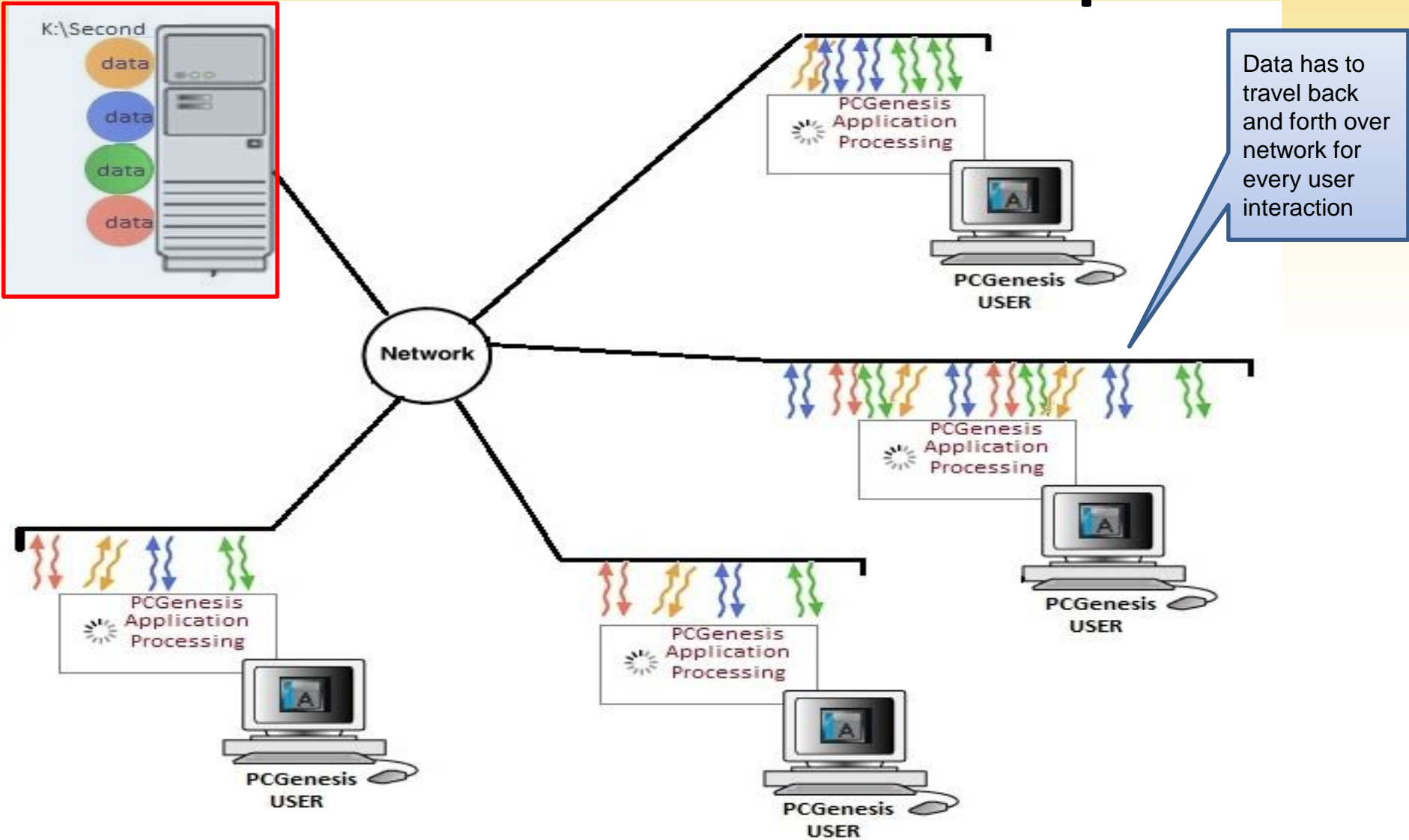
Adjusted Leave Eligibility Date:



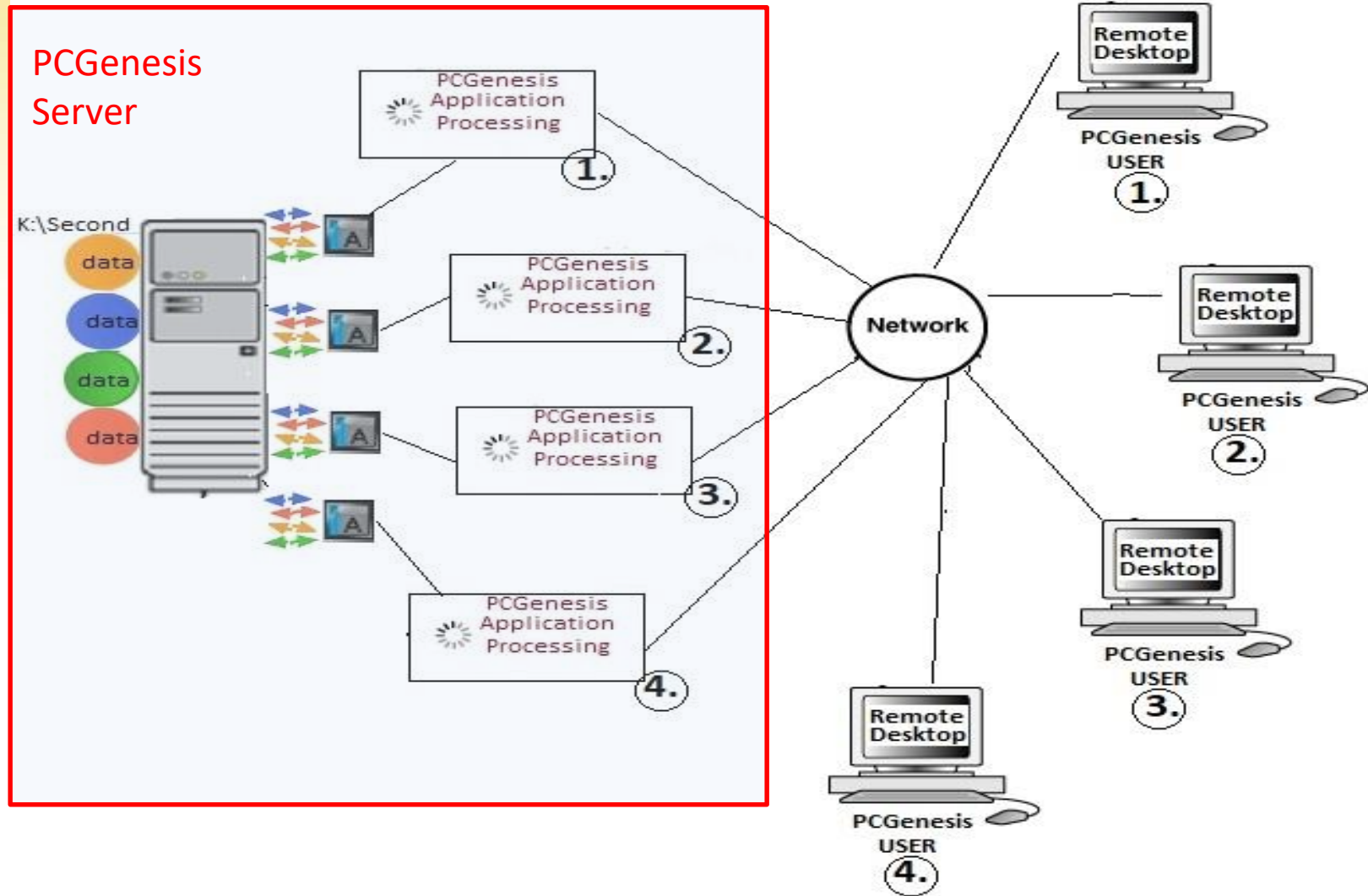
Site Recommendations

- Upgrade any server > 5 years old
- Implement **Remote Desktop** access !!!!
- Weekly full system backup of **K:*.*** (Retain 3 weeks)
- Daily backup of data (**K:\SECOND** and **K:\PCGSQldb**) to CD/DVD/USB (Retain for 1 month)

PCGenesis run on User Computer



PCGenesis through Remote Desktop

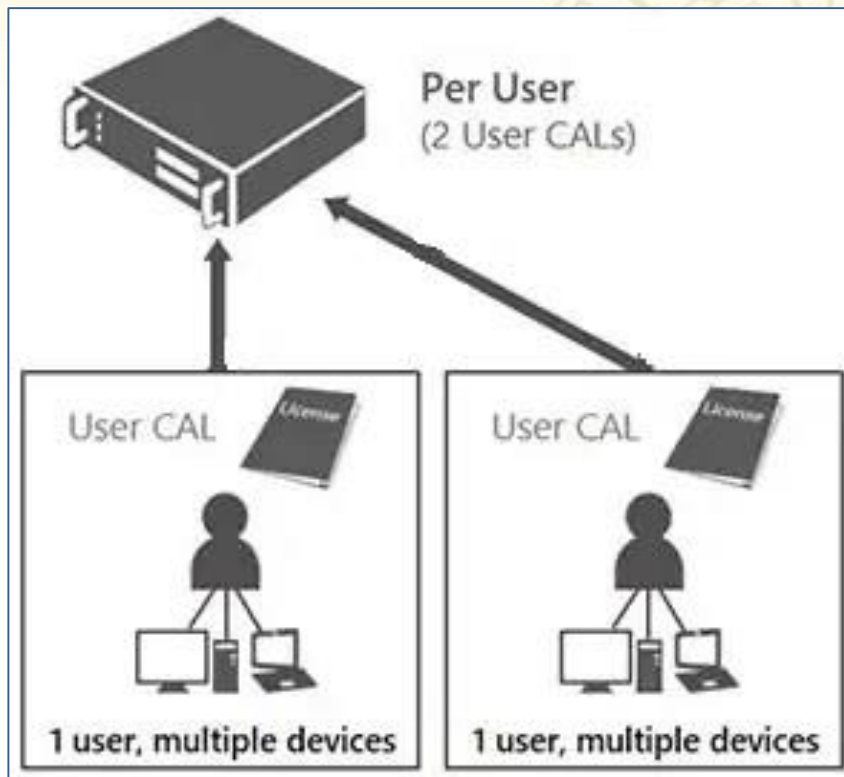


Remote Desktop Licensing

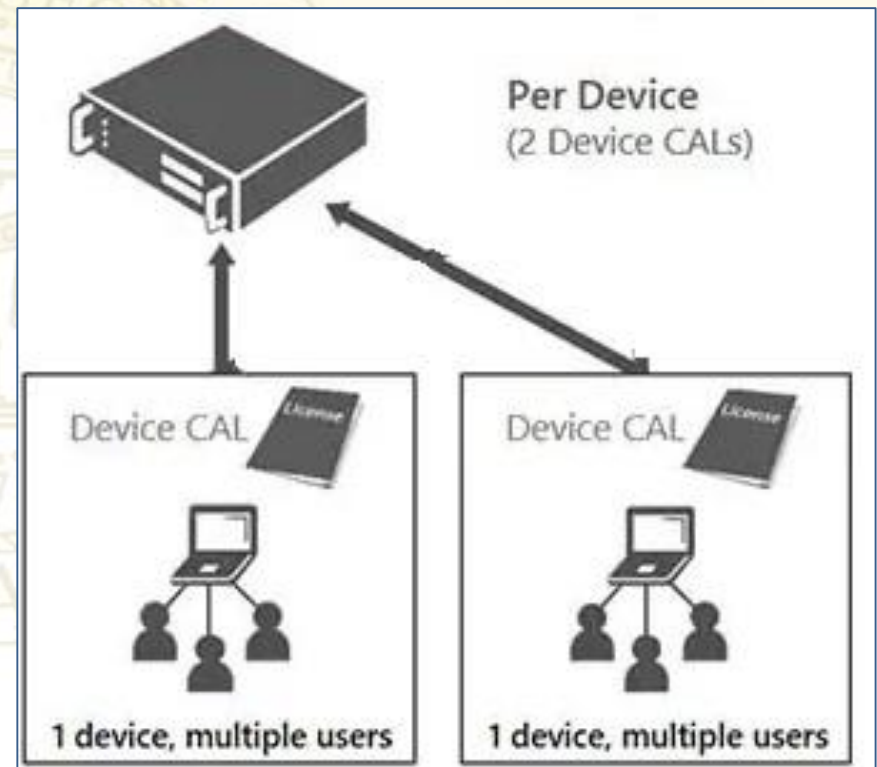
Client Access License (CAL)

based on user

1-User CAL \$199.00
5-User CAL \$779.00



based on device



Ransomware

What is ransomware?

Ransom malware, or ransomware, is a type of malware that prevents users from accessing their system or personal files and demands ransom payment in order to regain access.

How do you get ransomware?

The most common method today is through malicious spam, or malspam, which is unsolicited email that is used to deliver malware.

The email might include booby-trapped attachments, such as PDFs or Word documents. It might also contain links to malicious websites.

How do you get ransomware?

Transferred from connected devices

If Windows malware is on the smartphone, you plug it into your computer, and autorun is running, the Windows-based malware could start running and infect your machine.

Do not charge your devices using your USB port.



Encrypting Ransomware

This is the one we have been seeing in our districts. The perpetrators snatch up your files and encrypt them, demanding payment in order to decrypt and redeliver. The reason why this type of ransomware is so dangerous is because once cybercriminals get ahold of your files, no security software or system restore can return them to you.

Unless you contact the cybercriminals and pay the ransom, they're gone. Even if you pay them, there is no guarantee will give you those files back.

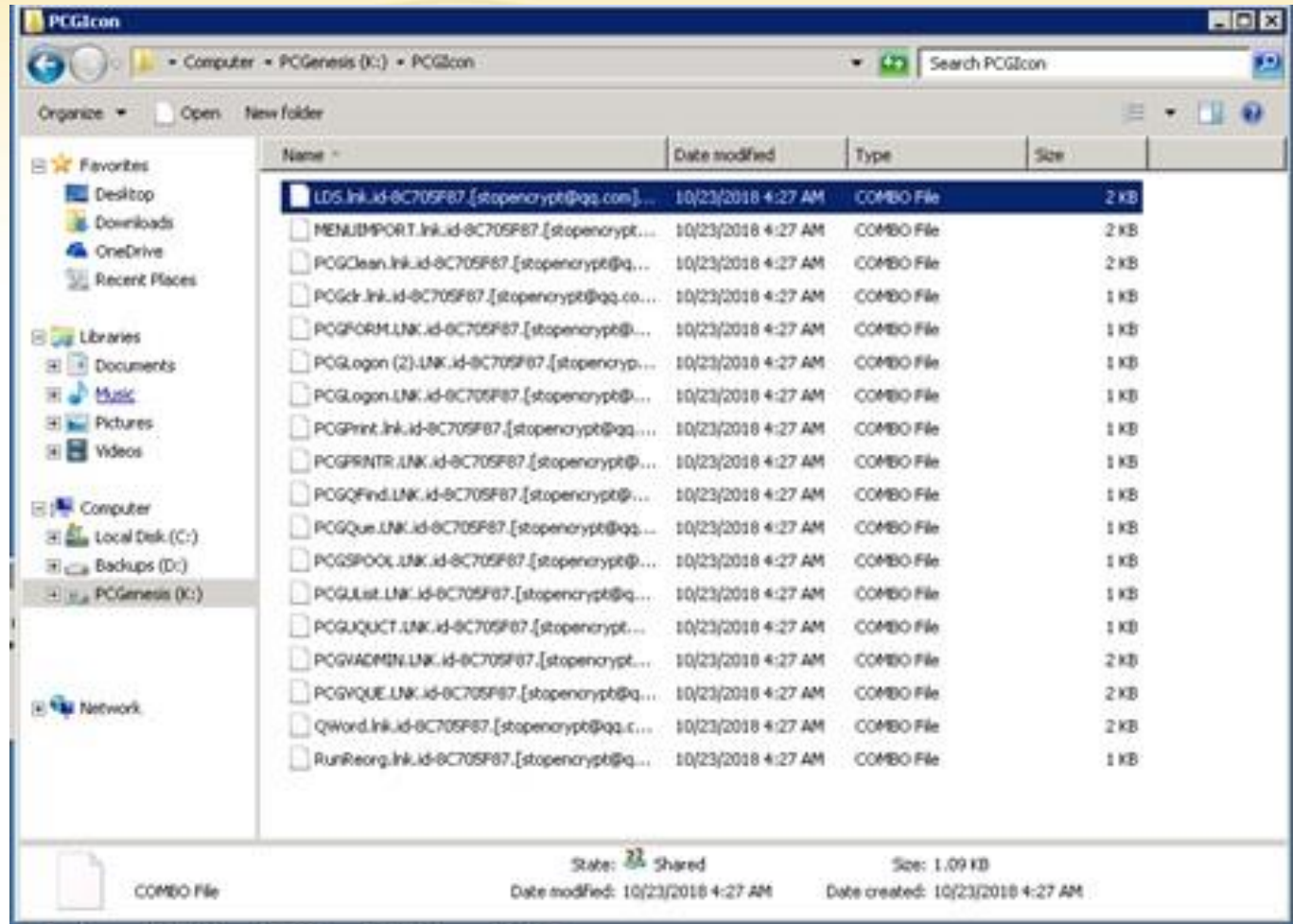
Who do ransomware authors target?

When ransomware was first unleashed, its initial victims were sent to the general public.

However, they began to realize its full potential when they rolled out ransomware to businesses and now public institutions, such as school districts. Multiple Georgia districts have already been hit.

How do you know if you have been infected?

Filenames will all be changed, nothing works and everything you click sends you to a website announcing to fix your files for a fee.



What to do if infected?

The number one rule if you find yourself infected with ransomware is to **never pay the ransom.**

(This is now advice endorsed by the FBI.)

Nothing on a computer exposed to ransomware can be trusted. The computer must be completely reformatted.

How to recover from a ransomware attack

- Due to multiple attacks, we now can advise districts on streamlining the recovery effort.
- If you see your PCGicon folder files looking distorted, you have been infected. The entire PCGenesis server has been compromised and must be reformatted. Nothing on this server should be trusted.
- Please contact the DOE immediately for instructions on moving forward in the event of a ransomware attack.

How to protect from ransomware

- Create secure daily backups of your PCGenesis data to a new thumb drive and label with date and time.
- Invest in cybersecurity—a program with real-time protection that’s designed to thwart advanced malware attacks such as ransomware. You should also look out for features that will both shield vulnerable programs from threats (an anti-exploit technology) as well as block ransomware from holding files hostage (an anti-ransomware component).

Be sure your systems and software are updated. The WannaCry ransomware outbreak took advantage of a vulnerability in Microsoft software. While the company had released a patch for the security loophole back in March 2017, many folks didn’t install the update—which left them open to attack.

- We recommend changing your settings to enable automatic updating.

Backing up PCGenesis data files

BACKUP GUIDELINES		
✓	Step	Action
	1	<p>Include a full backup of <i>K:*. *</i> in the site's standard server backup process</p> <ul style="list-style-type: none"> ▶ Recommend full backup of <i>K:*. *</i> <u>every night</u> if possible <ul style="list-style-type: none"> • Minimum of one full backup of <i>K:*. *</i> every week (Required) • Retain at least 4 weeks of <i>K:*. *</i> (Required)
	2	<p>Daily backup of <i>K:\SECOND*. *</i> and <i>K:\PCGSQLdb*. *</i> (Required)</p> <ul style="list-style-type: none"> • Use of CD, DVD, or USB is recommended • Nightly backup following each work day • Nightly media may remain under control of PCG administrator • Proper security and offsite storage measures (Required) • Retain daily backups of <i>K:\SECOND*. *</i> and <i>K:\PCGSQLdb*. *</i> for 4 weeks (Required) • Retain one daily backup each month of <i>K:\SECOND*. *</i> and <i>K:\PCGSQLdb*. *</i> for at least one year (Required)
	3	<p>PCGenesis data is <u>split</u> between files contained in the directory <i>K:\SECOND</i> and the <i>SQL Server</i> database tables located in <i>K:\PCGSQLdb</i>. Therefore, it is very important to backup <i>K:\PCGSQLdb*. *</i> and <i>K:\SECOND*. *</i> during the nightly backup. One directory cannot be backed up without the other directory, and they must be maintained together.</p>

Thumb drives now can hold up to a terrabyte of data.

You can get multi packs of thumb drives cheaply eg 10 pack of 16 gig each for \$30

Thank you for attending!



Richard Woods, Georgia's School Superintendent
"Educating Georgia's Future"

11/5/2020

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