MEMORANDUM

TO: PCGenesis System Administrators
FROM: Steven Roache, Senior Information Systems Manager


This document contains the PCGenesis software release overview and installation instructions for Release 18.S.12.

PCGenesis supporting documentation is provided at:

http://www.gadoe.org/Technology-Services/PCGenesis/Pages/default.aspx

**Timing Instructions**

This release must be installed before June 30, 2018.

The installation of the print queue components does not impact the running of the PCGenesis application in any way. The installation of the Microsoft components is totally independent of any PCGenesis software. If any problems arise during the installation, PCGenesis will continue to run without being interrupted.
Contents

Section A: Overview of Release .......................................................................................................................... 3

A1. PCGenesis System Enhancements .................................................................................................................. 3
   A1.1. PCGenesis Print Queue Upgrade – Work In Progress ............................................................................. 3
   A1.2. Installation of Print Queue Components ................................................................................................. 3
   A1.3. Print Queue Components Added to Current Release Number Screen ....................................................... 4

Section B: Installation Instructions for Release 18.S.12 Software ..................................................................... 5

B1. Perform a PCGenesis Full Backup ................................................................................................................ 5
B3. Verify Release 18.S.12 Was Successfully Installed .................................................................................. 27
B4. Perform a PCGenesis Full Backup After Release 18.S.12 is Installed ......................................................... 28
Section A: Overview of Release

A1. PCGenesis System Enhancements

A1.1. PCGenesis Print Queue Upgrade – Work In Progress

The GaDOE is happy to announce that we will be rolling out a major upgrade of the PCGenesis Print Queue in the second quarter of 2018. The DOE has purchased the VerraDyne Print Manager for a cost of $25,000 to replace the existing PCGenesis print queue software. The new VerraDyne Print Manager will have much in common with the existing PCGenesis print queue because the same company created both systems.

Operating System Requirements for VerraDyne Print Manager

1. The new VerraDyne Print Manager will not be supported on Windows Server 2003. As of June 30, 2018, PCGenesis will no longer support the Windows Server 2003 operating system.

2. For school systems running Windows Server 2008 R2, the new VerraDyne Print Manager will require Service Pack 1 to be installed. We encourage all school systems running Windows Server 2008 to verify that the Microsoft Service Pack 1 has been installed on your PCGenesis server.

3. For school systems running Windows Server 2008 R2, Windows Server 2012, and Windows Server 2016, the new VerraDyne Print Manager will require the PCGenesis server to have all maintenance and service packs installed on your PCGenesis server so that the Windows Server operating system is fully up to date.

A1.2. Installation of Print Queue Components

This release starts the process of upgrading software in order to support the new VerraDyne Print Manager software. The first part of the upgrade is to load the Microsoft components required to run a database. The GaDOE would like school systems which meet the operating system requirements listed above to download and install the appropriate software packet at some point between May 17, 2018 and June 30, 2018.

This release supports the software packet for systems running a version of Windows Server 2008. The software packet contains the following components:

Windows Server 2008 Software Packet

- .NET 3.5 Framework (required for SQL Server Express 2012)
- .NET 4.5 Framework (required for VerraDyne Print Manager software)
- Microsoft SQL Server Express 2012
- Adobe Reader (to be loaded to the server)
The installation of the print queue components does not impact the running of the PCGenesis application in any way. The installation of the Microsoft components is totally independent of any PCGenesis software. If any problems arise during the installation, PCGenesis will continue to run without being interrupted.

**A1.3. Print Queue Components Added to Current Release Number Screen**

The print queue component fields, highlighted below, have been added to the Display Current Release Number screen (F30, F17). These fields are needed for the new VerraDyne Print Manager software to access the SQL Server database. The print queue component fields on the Display Current Release Number screen are available for informational purposes only.

![Display Current Release Number Screen](image-url)
Section B: Installation Instructions for Release 18.S.12 Software

B1. Perform a PCGenesis Full Backup

When the prior evening’s backup was successful, and when installing Release 18.S.12 before performing any work in PCGenesis for the day, proceed to B2. Install PCGenesis Release. In addition to its current labeling, also label the prior evening’s backup CD/DVD/USB as “Data Backup Prior to Release 18.S.12”. Continue to use the backup CD/DVD/USB in the normal backup rotation.

<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Verify all users are logged out of PCGenesis.</td>
</tr>
<tr>
<td>2</td>
<td>Close Uspool at the server.</td>
</tr>
<tr>
<td>3</td>
<td>Perform a PCG Full Backup to CD or DVD or USB.</td>
</tr>
<tr>
<td>4</td>
<td>When the PCGenesis backup completes, label the backup CD or DVD or USB “Full System Backup Prior to Release 18.S.12”.</td>
</tr>
</tbody>
</table>
### B2. Install PCGenesis Release 18.S.12

**FROM THE PCGENESIS SERVER**

<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Verify that all Windows Server operating system updates have been applied to your system before starting this installation!</td>
</tr>
<tr>
<td>2</td>
<td>Verify all users are logged out of PCGenesis.</td>
</tr>
<tr>
<td>3</td>
<td>Open Windows® Explorer.</td>
</tr>
<tr>
<td>4</td>
<td>Navigate to the K:\INSTAL directory.</td>
</tr>
</tbody>
</table>
| 5    | Verify the following four files display:  
  - PCGUNZIP.EXE,  
  - SQLINSTL12.BAT  
  - INSTLNET  
  - Win2008R2_SQLEXPRWT_x64_ENU.exe  
  
*If these four files do not display, return to the MyGaDOE Web portal, and detach the files from the Web portal again.* |
**Step 6**

***ALERT***

After downloading the files we need to make sure they are not blocked, otherwise when we unzip, ALL the files will all be blocked. This is a new security feature of the Windows Server 2008 operating system.

To check whether the files have been blocked, **right-click** on each of the four downloaded files and select **Properties**. If you see a security message at the bottom, as shown below, you will need to click the ‘**Unblock**’ button. This is a very important step!
<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
</tr>
</thead>
</table>
| 7    | In the **K:\INSTAL** directory, right click on **PCGUNZIP.EXE** and select the ‘**Properties**’ option. Verify that the size of the file is **70.5 MB** as shown below.  
*If the size of the file is not **70.5 MB** as shown below, return to the MyGaDOE Web portal, and detach the file from the Web portal again.*  

**PCGUNZIP.exe:**

![PCGUNZIP.exe Properties](image)

- **Size:** 70.5 MB (74,015,935 bytes)
- **Size on disk:** 70.5 MB (74,018,816 bytes)
<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>In the K:\INSTAL directory, right click on <strong>Win2008R2_SQLEXPRWT_x64_ENU.exe</strong> and select the ‘<strong>Properties</strong>’ option. Verify that the size of the file is <strong>699 MB</strong> as shown below. If the size of the file is <strong>not 669 MB</strong> as shown below, return to the MyGaDOE Web portal, and detach the file from the Web portal again.</td>
</tr>
</tbody>
</table>

**Win2008R2_SQLEXPRWT_x64_ENU.exe**:
Step | Action
--- | ---
9 | Right-click SQLINSTL12.BAT and select Run as administrator to perform the installation.

The following screen displays briefly:

![Image 1](image1.png)

The following screen displays briefly:

![Image 2](image2.png)
If the PCGenesis server already has **Microsoft .NET Framework 4.5** installed, the following screen displays:

![Image of .NET Framework 4.5 error message]

If the PCGenesis server does **not** have **Microsoft .NET Framework 4.5** installed, the following screen displays:

![Image of .NET Framework 4.5 setup window]

**.NET Framework 4.5 Setup**

Please accept the license terms to continue.

**.NET SOFTWARE SUPPLEMENTAL LICENSE TERMS**

.NET FRAMEWORK AND ASSOCIATED LANGUAGE PACKS FOR MICROSOFT WINDOWS OPERATING SYSTEM

Microsoft Corporation (or based on where you live, one of its affiliates) licenses this supplement to you. If you are licensed to use Microsoft Windows operating system software (the "software"), you may use this supplement. You may not use it if you do not have a license for the software. You will not have an eligible license for the software if you have an "evaluation" or "trial" license, or if your software is not an eligible operating system. You will not be eligible to use this supplement if you do not have an eligible license for the software. If you have an eligible license for the software, you may use this supplement.

Check box if I have read and accept the license terms:

- Download size estimate: 0 MB
- Download time estimates: Dial-Up: 0 minutes
  Broadband: 0 minutes

[Install] [Cancel]
Step | Action
--- | ---
10 | If the PCGenesis server already has **Microsoft .NET Framework 4.5** installed, proceed to Step 12.

If the PCGenesis server does **not** have **Microsoft .NET Framework 4.5** installed, accept the license term and click '**Install**'.

The following screen displays briefly:
The following screen displays:

![Image of Installation Is Complete](image)

<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>Click ‘Finish’ when the Microsoft .NET Framework 4.5 installation is completed.</td>
</tr>
</tbody>
</table>

The following screen displays briefly:

![Image of Extracting Files](image)

The following screen displays briefly:

![Image of SQL Server 2012](image)

Please wait while Microsoft SQL Server 2012 Setup processes the current operation.
The ‘SQL Server 2012 Setup – Setup Support Rules’ screen displays briefly:
The following screen displays:

<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>When prompted with ‘SQL Server 2012 Setup – License Terms’, accept the license term and select ‘Next’.</td>
</tr>
</tbody>
</table>
The ‘SQL Server 2012 Setup – Install Setup Files’ screen displays briefly:
The ‘SQL Server 2012 Setup – Setup Support Rules’ screen displays briefly:
The following screen displays:

![SQL Server 2012 Setup - Feature Selection](image)

<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>13</strong></td>
<td>When prompted with ‘SQL Server 2012 Setup – Feature Selection’, verify that the ‘Database Engine Services’ and ‘Management Tools – Basic’ options are checked, and select ‘Next’.</td>
</tr>
</tbody>
</table>
The following screen displays:

Step 14: When prompted with ‘SQL Server 2012 Setup – Instance Configuration’, verify that the ‘Named instance’ and ‘Instance ID’ are SQLEXPRESSPCG. Verify that the ‘Instance root directory’ is K:\PCGSQLdb and then select ‘Next’.
The following screen displays:

<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>When prompted with ‘<strong>SQL Server 2012 Setup – Server Configuration</strong>’, select ‘<strong>Next</strong>’.</td>
</tr>
</tbody>
</table>
The following screen displays:

### Step 16

The following screen may be displayed in certain instances:

<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>17</td>
<td>If prompted with ‘SQL Server 2012 Setup – Error Reporting’, do not check the box and select ‘Next’.</td>
</tr>
</tbody>
</table>
The following screen displays briefly:

![Installation Progress Screen](image-url)
The following screen displays:

![SQL Server 2012 Setup Complete](image)

<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>18</td>
<td>When prompted with ‘SQL Server 2012 Setup – Complete’, verify that all components installed successfully, and select ‘Close’.</td>
</tr>
</tbody>
</table>
If the PCGenesis server does not have **Adobe Acrobat Reader** installed, the following screen may display briefly:

![Adobe Acrobat Reader DC Installer](image)

The following screen displays:

![Adobe Acrobat Reader DC Installer](image)

Uncheck the box for 'Launch Adobe Acrobat Reader DC'

Finish
<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>19</td>
<td>When prompted with the ‘Adobe Acrobat Reader DC: Installation Complete’ screen, <strong>uncheck</strong> the box for ‘Launch Adobe Acrobat Reader DC’ and select ‘<strong>Finish</strong>’.</td>
</tr>
<tr>
<td>20</td>
<td>Now, <strong>REBOOT</strong> the PCGenesis server.</td>
</tr>
</tbody>
</table>
B3. Verify Release 18.S.12 Was Successfully Installed

<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Log into PCGenesis.</td>
</tr>
<tr>
<td>2</td>
<td>From the Business Applications Master Menu, select <strong>F30</strong> (F30 - System Utilities).</td>
</tr>
<tr>
<td>3</td>
<td>From the System Utilities Menu, select <strong>F17</strong> (F17 - Display Current Release Number).</td>
</tr>
</tbody>
</table>

The following screen displays:

```
Step 1 Action

4 Verify the necessary components are installed. Check that a ‘Y’ is displayed next to each of the following components.

   .NET Framework 3.5: Y  SQL SERVER EXPRESS 2012: Y
   .NET Framework 4.5: Y  SQL SERVER EXPRESS 2016: N  SQL MANAGEMENT STUDIO 2016: N

If the above components do not display a ‘Y’, contact the Technology Management Customer Support Center for assistance.

5 Select Enter.

6 Log off the PCGenesis server.
```
### B4. Perform a PCGenesis Full Backup After Release 18.S.12 is Installed

<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Verify all users are logged out of PCGenesis.</td>
</tr>
<tr>
<td>2</td>
<td>Close Uspool at the server.</td>
</tr>
<tr>
<td>3</td>
<td>Perform a PCG Full Backup to CD or DVD or USB.</td>
</tr>
<tr>
<td>4</td>
<td>When the PCGenesis backup completes, label the backup CD or DVD or USB “Full System Backup After Release 18.S.12”.</td>
</tr>
</tbody>
</table>