

# Cloudpaging Player 9.3.0 Release Notes

**Date:** October 12, 2021

**Version:** 9.3.0.980

We're pleased to present **Cloudpaging Player 9.3.0**.

## **Version Compatibility**

Cloudpaging Player 9.3.0 is compatible with the 9.1.x and higher Cloudpaging Server versions. Cloudpaging Player 9.3.0 supports all appset versions.

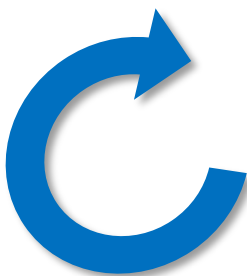
### **IMPORTANT**

The Cloudpaging Player will not communicate with Cloudpaging Servers that do not have a certificate signed by a valid Certificate Authority (CA). The Request URL in the certificate should match the CN field in the certificate.

Please ensure that the Cloudpaging Server's certificate requirements have been met before deploying Cloudpaging Player 9.3.0 in your environment.

## **Highlights**

- [Improved application upgrade process](#)
- [Reduced user prompts](#)
- [PowerShell support for CAEs](#)
- [Logging improvements](#)
- [GPO for VDI environments](#)



### **Improved application upgrade process**

We've improved our application upgrade process to seamlessly deliver upgrades without unnecessary user interaction. Applications will be automatically upgraded based on the policies determined by the administrator. This, in conjunction with the reduced notifications improvement, provides a smooth end-user experience. [Click here](#) for more information on the improvements.



## Reduced user prompts

Beginning with version 9.3.0, we are leveraging Windows Notification Center to display notifications for Cloudpaging Player minimizing the need of user interactions. We've made improvements to notifications that are displayed during application provisioning, deprovisioning and upgrades. We will continue with our improvements for other areas in future versions of the Cloudpaging Player. [Click here](#) for more information on the improvements.



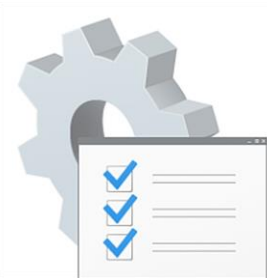
## PowerShell support for CAEs

The Cloudpaging Player now supports native PowerShell scripts for Configurable AppEvents (CAEs) to allow for improved application configuration without showing command prompts. [Click here](#) for more information on the improvements.



## Logging improvements

We've integrated Cloudpaging Player's log output with the Windows Event Viewer. Administrators can use the Event Viewer's search and filter options to make it easier to troubleshoot on managed environments like VDI. Improvements were also made to log levels and log messages to help quickly identify issues and misconfigurations. [Click here](#) for more information on the improvements.




## New GPOs for VDI environments

Additional Group Policy Objects (GPO) were added to aid the management of Cloudpaging on VDI environments and reduce image management. [Click here](#) for more information on the improvements.

## Improvements and Enhancements

Here are some more details on the improvements highlighted above and additional enhancements made in this release.

| Issue Type  | Description   | Ticket Number(s)  |
|-------------|---|---|
| Enhancement | <u>Improved application upgrade process</u> <ul style="list-style-type: none"> <li>• Upgrade prompts for optional upgrades should be displayed in the foreground.</li> <li>• Mandatory upgrade should not require any user interaction for the upgrade to be applied.</li> <li>• End users should receive the last application in an upgrade chain.</li> <li>• Upgrade workflow should revert to the previous appset if there are errors during upgrade.</li> </ul>   | CP-33913,<br>CP-33937,<br>CP-33942,<br>CP-33952   |
| Enhancement | <u>Reduced user prompts</u> <ul style="list-style-type: none"> <li>• Convert dialog prompt into a notification in the Windows notification center and improve messaging for the errors displayed when the application could not be removed from the Cloudpaging Player.</li> <li>• Convert dialog prompt into a notification in the Windows notification center and improve messaging for the errors displayed when the application could not be added to the Cloudpaging Player.</li> <li>• Convert dialog prompt into a notification in the Windows notification center and improve messaging when an application is upgraded.</li> </ul> | CP-33681,<br>CP-33682,<br>CP-33683,<br>CP-33686,<br>CP- 33913                                       |
| Enhancement | <u>PowerShell support for CAEs</u> <ul style="list-style-type: none"> <li>• Enhance CAEs to include native support for PowerShell.</li> <li>• Pass user SID as an environment variable to CAE process.</li> <li>• Provide administrators the ability to control visibility of the console window during CAE execution.</li> </ul>   | CP-32209,<br>CP-33901   |
| Enhancement | <u>Logging Improvements</u> <ul style="list-style-type: none"> <li>• Improve logging levels and log format to aid log analysis and troubleshooting.</li> <li>• Integrate logging for certain levels of logs (Info, Warning and Error) to the Event Viewer to make it easier to view, filter and export logs.</li> <li>• Allow users with administrative privileges to backup and clear logs from the Cloudpaging Player UI and with a PowerShell command.</li> <li>• Anonymize personally identifiable information (for example, username or machine name) in the logs.</li> </ul>  | CP-33816,<br>CP-33817,<br>CP-33818,<br>CP-33830,<br>CP-33831,<br>CP-33844,<br>CP-33845,<br>CP-33846 |

| Issue Type  | Description   | Ticket Number(s)                                 |
|-------------|---|--|
| Enhancement | <p><u>New GPOs for VDI Environments</u></p> <ul style="list-style-type: none"> <li>• Add Cloudpaging GPOs to enable administrators to bypass file and registry assets globally</li> <li>• Add Cloudpaging GPOs to enable administrators to specify file system folders and registry keys to be excluded from the sandbox.</li> <li>• Allow administrators to specify the thread priority of Cloudpaging Player during appset activation.</li> </ul>   | CP-33693, CP-33702, CP-33709, CP-33711, CP-33748 |
| Enhancement | <p><u>Performance Improvements</u></p> <ul style="list-style-type: none"> <li>• Improve performance of the Cloudpaging Player on machines with appsets that have many virtual registry keys.</li> <li>• Improve performance of the Cloudpaging Player when denied processes are configured through GPO.</li> </ul>  | CP-33766, CP-33767                               |
| Enhancement | <p><u>Cloudpaging Player Security Enhancements</u></p> <ul style="list-style-type: none"> <li>• The Cloudpaging Player will not communicate with Cloudpaging Servers that do not have a certificate signed by a valid Certificate Authority (CA).</li> <li>• The Cloudpaging Player will not communicate with Cloudpaging Servers if the request URL in the Cloudpaging Server's certificate does not match the CN field in the certificate.</li> </ul> <p> Please ensure that certificate requirements have been met before deploying Cloudpaging Player in your environment.</p> | CP-33539   |
| Enhancement | Enable the ET_AUTO_ELEVATION flag by default during Cloudpaging Player installation.  | CP-33997   |
| Enhancement | Disable local paging by default during Cloudpaging Player installation.   | CP-33997   |
| Enhancement | Add new PowerShell command to allow an administrator to check if assets within the appset are in use by external processes.   | CP-33898   |
| Enhancement | Only users with administrative privileges should be allowed to change Log level and file size.  | CP-33850   |
| Enhancement | Log the results of the connection tests to multisource locations in the Cloudpaging Player logs.  | CP-33627   |

## Bugs

Here are some bugs we squashed in this release.

| Issue Type | Description  | Ticket Number(s)         |
|------------|--|--------------------------|
| Bug        | A blue screen may occur on Windows 10 Enterprise if the virtual registry fails to activate due to a configuration issue or registry corruption.                      | <b>33566</b><br>CP-33989 |
| Bug        | Appsets that use the tilde (~) special character in runtime operations may not virtualize after a Cloudpaging Player restart.  | <b>33458</b><br>CP-33974 |
| Bug        | Cloudpaging Player 9.2.7 prevents installed software from modifying virtual registry values in restricted areas that should be sandboxed.                            | <b>33407</b><br>CP-33963 |
| Bug        | A blue screen may occur on a multi-session environment due to a rare data race condition.  | <b>33317</b><br>CP-33962 |
| Bug        | Long startup time for MS SQL Server Management Studio observed on a non-persistent, multi-session environment.   | <b>32932</b><br>CP-33959 |
| Bug        | An installer script used for installation of the Cloudpaging Player may be flagged as a malware by some anti-virus vendors.  | <b>32585</b><br>CP-33943 |
| Bug        | TiWorker.exe is not added to the denied process list when appset is cloudpaged from the Cloudpaging Server which may result in errors when applying Windows updates. | <b>33314</b><br>CP-33935 |
| Bug        | The expiration time set in the token file is not enforced when appset is locally paged.  | CP-33936                 |
| Bug        | Virtualizing certain applications that utilize long filename convention may cause a blue screen after Windows update.  | CP-33933                 |

## Contact Us

For additional support, please contact Numecent Support at [support@numecent.com](mailto:support@numecent.com) or find us online at <http://support.numecent.com>.