

PBS Access Web 2018.3

# Release Notes



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# PBS Access Web Release Notes

These release notes describe the system requirements, new features, resolved and known issues of PBS Access Web 2018.3. Please see the following sections for more information:

- [About PBS Access Web](#)
- [About PBS Application Services](#)
- [System Requirements for PBS Access Web](#)
- [System Requirements for Interactive Application Components](#)
- [Supported Product Configurations](#)
- [New Features](#)
- [Resolved Issues](#)
- [Known Issues](#)

## About PBS Access Web

Altair's new PBS Access Web provides a simple, powerful, and consistent interface for submitting and monitoring jobs on remote clusters, clouds, or other resources. Engineers and researchers can now focus on core activities and spend less time learning how to run applications or moving data around. The PBS Access Web remote visualization and collaboration capabilities bring access to an expensive, highend 3D visualization datacenter hardware right to the user. PBS Access Web provides an ability to visualize the results by extracting plot and animation data. You can view plots for running jobs as well as for jobs which have been successfully completed. You can download and analyze animations using the Altair HyperView Player.

PBS Access Web features:

- Novice to Expert: simple and powerful
- Same UX: desktop and web
- Secure: protected access to HPC resources
- End-to-end: submit, monitor progress, steer, fix, and rerun jobs
- Collaborate: shared 3D analysis
- 3D Remote Visualization
- Save time: Simplify job submission and management thanks to a powerful GUI with smart, simplified interfaces
- Be more productive: Spend more time focused on work and not IT tasks - for example, monitor jobs graphically without having to download huge job files

- Increase ROI: Consolidate access to applications and optimize license availability
- Reduce errors and improve consistency: Embed your company's best-practice "know how" directly into Application Definitions used for job submission

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## About PBS Application Services

PBS Application Services (PAS) is a middleware component that communicates with the PBS Professional complex and the operating system, and provides services for the front end client applications such as graphical user interfaces. This middleware component is used as the preferred method of communication between the integration of client applications and the PBS Professional complex. PAS allows users to quickly create application portals that boost productivity and accelerate innovation. Application administrators can use PAS to create custom, solver specific application definitions. Leveraging key industry standards like the Open Grid Forum High Performance Computing Basic Profile, PAS makes it easy to respond to dynamic changes to your users and applications.

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## System Requirements for PBS Access Web

### Supported Platforms

PBS Access Web is supported on the following Linux 64bit platforms:

- Red Hat Enterprise Linux 7.4
- Cent OS 7.4
- SLES 12 SP2

### Supported Server Platforms

PBS Access Web supports only the 64-bit (x86\_64) architecture platforms for visualization of results.

### Supported Browsers

#### Windows

- Firefox latest ESR (Only Extended Support Release is supported. Please refer to <https://www.mozilla.org/en-US/firefox/organizations/>)
- Google Chrome latest
- Microsoft Internet Explorer 11
- Microsoft Edge (limited testing)

### Linux

- Not supported at this time.

### OSX

- Firefox latest ESR (Only Extended Support Release is supported. Please refer to <https://www.mozilla.org/en-US/firefox/organizations/>)
- Google Chrome latest
- Safari latest



NPAPI plugins (HyperView Player Plugin for RVS) are not supported from Chrome version 44.0 and Mozilla Firefox ESR 45.

## Hardware Requirements for PBS Access Web

Minimum hardware configuration required for PBS Access Web are:

Table 1. Hardware requirements for PBS Access Web

Hardware	Minimum Requirement	Recommended
CPU	2 CPU cores with a minimum speed of 2.5 GHz	4 CPU cores with a minimum speed of 2.5 GHz
Memory (Physical)	4 GB	8 GB
Disk Space	4 GB	10 GB

## Hardware Requirements for Results Visualization Service

Minimum hardware configuration required for Results Visualization Service (RVS) are:

Table 2. Hardware requirements for RVS

Hardware	Minimum Requirement	Recommended
CPU	A Quad Core Processor of 2.5 GHz	A Quad Core Processor of 3.1 GHz
Memory (Physical)	16 GB	32 GB
Disk Space	500 GB	500 GB



Result Visualization of results requires good network connectivity to all the connected file servers such as PAS server and job execution hosts. A minimum speed of 100mbps is required while a speed of 1gbps is recommended.

HyperWorks Desktop version 2017.2 should be installed and available to visualize results in PBS Access Web. For more details, refer to *Configuring HyperWorks Location* section in *PBS Access Web Administrators Guide*.

## System Requirements for Interactive Application Components

Hardware and system requirements necessary for running an interactive application.

### Graphics

- Supported only on Nvidia and ATI (AMD) graphics cards.
- Install the 3D adapter drivers provided by the manufacturer.
- Full 3D acceleration or Pixel Buffer support should be enabled by the Linux drivers.

### GPU Cores and Memory

- Specific to the interactive applications being run.

### CPU Cores and Physical Memory

- Specific to the interactive applications being run.




**Other**

- For running interactive sessions, X Server and application on local display must be configured and working.
- X Server must be configured to export True Color (24 bit or 32 bit) visuals.
- Use Virtual Private Networking or secured channels for communication between clients and interactive server if encryption is required.
- The PBS Professional execution host must be able to access and run the applications available through PBS Access

## Supported Product Configurations

The currently supported PBS Access Web product configurations are:

PBS Access Web	PAS	PBS Professional	Hyperworks
2018.3	2018.3	18.2.2 18.2.1 18.1.1 (Open source )- only on CentOS 7.4 14.2.4 14.1.0 (Open source )- only on CentOS 7.4 13.1.3	14.0 2017.2



HyperWorks Desktop application is required to visualize CAE results.  
PBS Access Web is tested in Hyperworks 2017.2

## New Features

This section provides information about the new features of PBS Access Web 2018.3:

- [Results Visualization Service \(RVS\)](#)
- [PBS Application Services \(PAS\) Integration](#)
- [Upgrade and Downgrade Functionality](#)
- [Paginated View](#)
- [Job Submission Email Notification](#)
- [RVS Auto Refresh](#)
- [File Tail Frequency](#)
- [Restriction on Viewing All Jobs](#)

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### **Results Visualization Service (RVS)**

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PBS Access Web 2018.3 provides an ability to visualize the results by extracting plot and animation data. You can view plots for running jobs as well as for jobs which have been successfully completed. You can download and analyze animations using the Altair HyperView Player.

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### **PBS Application Services (PAS) Integration**

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PAS is now integrated with the PBS Access Web 2018.3 installer. You can install PBS Access, PBS Application Services, or Both.

Refer *PBS Access Web 2018.3 Administrator's Guide* for more information.

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### **Upgrade and Downgrade Functionality**

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PBS Access 2018.3 provides an option to upgrade from the previous version and to rollback to previous version.

Refer *PBS Access Web 2018.3 Administrator's Guide* for more information.

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## **Paginated View**

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The new paginated view is now supported in Job Monitoring, File List, and File Viewer. You can also set the number of records to be displayed in a page.

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## **Job Submission Email Notification**

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You can now provide your email address in your PBS Access Web profile. You will be notified when a job's state changes. You can specify for which job change you wish to receive notifications.

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## **RVS Auto Refresh**

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You can visualize a plot for a running job. You can specify the time interval for refreshing the plot view.

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## **File Tail Frequency**

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Set the tail frequency to view updates done to a file's contents in tail mode view.

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## **Restriction on Viewing All Jobs**

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PBS Access Web provides an option to remove the capability to view all jobs. Set the `restrictOthersJobs` to `true` in `configuration.json` file located at `PA_HOME\config\pa\` to restrict all jobs.

## Resolved Issues

This section provides information about resolved issues with PBS Access Web 2018.3:

- [PA-3472 Intermittently, notifications were not displayed even if Show Notification option was enabled](#)
- [PA-3939 Editing and saving a file multiple times was corrupting file content](#)

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### **PA-3472 Intermittently, notifications were not displayed even if Show Notification option was enabled**

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**Summary:** Intermittently, the notifications was not displayed even if the Show Notification option was enabled.

**Resolution:** The notifications are displayed if the Show Notification option is enabled.

---

### **PA-3939 Editing and saving a file multiple times was corrupting file content**

---

**Summary:** The file content was getting corrupted when you try to edit and save a file multiple times in file editor view.

**Resolution:** The file content is not getting corrupted if you edit and save multiple times.

## Known Issues

This section provides information about known issues with PBS Access Web 2018.3:

- [PA-1927](#) Job is failing if input script contains shebang line like `#!/usr/bin/python`
- [PA-2872](#) User added additional include files are not getting added to the saved profile
- [PA-3003](#) If files or folders contain special characters, they are not displayed
- [PA-3021](#) Able to submit a job with invalid folder path
- [PA-3260](#) Job Submission form pop-up window displays `/stage` path instead of `/stage/user-name` path
- [PA-3272](#) Not able to submit jobs via PBS Access when PBS Professional restarts
- [PA-3453](#) Notifications are not displayed if registered PAS server user's password is changed
- [PA-3675](#) IE 11 Performance Issues with Files tab when there are more than 500 files
- [PA-3887](#) Don't Ask Again option not displayed in Job Termination confirmation dialog box if it is enabled
- [PA-4067](#) View details link is not working for running or completed jobs
- [PA-4115](#) Mail notifications are not sent to the configured user for Array Jobs
- [PA-4159](#) Remote Session Agent installer does not deploy GLXSpheres application definition in PAS
- [PA-4230](#) Disk Space commands give wrong value while installing PBS Access
- [PA-4276](#) In the RVS Plot or Animation Table of Contents page, job output files cannot be chosen from the left menu
- [PA-4312](#) `presubmit.py` will not access files from user's home directory in shared mounts
- [PA-4317](#) The spinner for RVS Auto Refresh Time field in Preference does not display properly in the supported browser
- [PA-4330](#) The input files are not displayed after clicking on JobID link
- [PA-4335](#) Error (Index 0 Size 0) in file viewer if the user switches between restricted and accessible files
- [PA-4336](#) In IE 11, the sub folders are not clickable in File Viewer section
- [PA-4339](#) File download is failing at the root directory level
- [PA-4346](#) Not able to open a file from Running Folder for the jobs submitted in additional HPC
- [PA-4352](#) The file content in File Viewer is not getting highlighted if Auto Tail is in progress
- [PA-4353](#) PBS Access Installation fails if there is a space in the Home and Exec folder paths

- [PA-4356 Job fails when PBS Access is installed on PBS commands and execution only setup](#)
- [RVS-1241 RVS server does not respond when the number of data points in a plot is too high](#)
- [RVS-1243 Settings menu overlaps the plot buttons](#)
- [RVS-1265 Unable to export plot result as CSV file](#)

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**PA-1927 Job is failing if input script contains shebang line like `#!/usr/bin/python`**

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**Summary:** Job is failing if input script contains shebang line like `#!/usr/bin/python`

**Work Around:** This is due to the way PBS Pro handles the python scripts.

Remove shebang line `#!/usr/bin/python` from the job input script or add shebang line `#!/opt/pbs/bin/pbs_python` to job input script.

---

**PA-2872 User added additional include files are not getting added to the saved profile**

---

**Summary:** Add a master file for an application then add additional include files and save it as a profile. Now when you select the saved profile and Run a Job, the additional include files are not getting displayed in the Job Submission Form.

**Work Around:** No workaround for this issue.

---

**PA-3003 If files or folders contain special characters, they are not displayed**

---

**Summary:** Files or data are not displayed in the Job Input and Job Output folders, if the input folder or files contains \$ or % characters.

**Work Around:** Avoid using special characters like \$ and % in Files or Folder names.

---

**PA-3021 Able to submit a job with invalid folder path**

---

**Summary:** The job is submitted even if you provide an invalid folder path in the output directory.

**Work Around:** No workaround for this issue.

---

**PA-3260 Job Submission form pop-up window displays /stage path instead of /stage/username path**

---

**Summary:** The pop-up window from Job Submission form displays /stage path instead of /stage/username path when you want to select a Job Script or an Output Directory.

**Work Around:** No workaround for this issue.

---

**PA-3272 Not able to submit jobs via PBS Access when PBS Professional restarts**

---

**Summary:** PAS is not able to submit jobs if PBS Professional restarts until PAS is restarted.

**Work Around:** Restart PAS only after PBS Professional is up and running.

---

**PA-3453 Notifications are not displayed if registered PAS server user's password is changed**

---

**Summary:** If the registered PAS server user's password is changed, then the Notifications and Job Updates information are not displayed for all users logged into the application.

**Work Around:** Check the pbsaccess.log located at <PA\_HOME>/logs/pa/ to find out if PAS registration user's password has changed.

---

**PA-3675 IE 11 Performance Issues with Files tab when there are more than 500 files**

---

**Summary:** If you add a cluster that has more than 500 files or folders, then there is a performance issue in Files Tab when using Internet Explorer 11.

**Work Around:** No workaround for this issue.

---

**PA-3887 Don't Ask Again option not displayed in Job Termination confirmation dialog box if it is enabled**

---

**Summary:** If you enable the Don't Ask Again option in Job Termination confirmation dialog box, then there is no option to enable the notifications.

**Work Around:** No workaround for this issue.

---

**PA-4067 View details link is not working for running or completed jobs**

---

**Summary:** Spring regex pattern for PBS Access Web services were not working correctly due to a bug in the thirdparty Spring library (Version 1.5.4).

**Work Around:** You can follow the steps mentioned below:

1. Stop PBS Access Web Services using the command:  
service pbsworks-pa stop
2. Navigate to /var/spool/pbsworks/2018.3/access/home/config/api\_gateway/default.d/
3. Open the storage.conf file and add the following lines of code at the end:

```
location /storage/jobs/ {  
  
    rewrite_handler_type 'java';  
    rewrite_handler_name 'com.altair.pbsworks.nginx.PBSAccessAuthHandler';  
    rewrite (^([^?]+[^/?])([^/]*)$ $1/$2 break;  
    proxy_pass https://pbsaccess/storage;  
    proxy_set_header Authorization "Bearer $access_token";  
    proxy_http_version 1.1;  
    proxy_set_header Upgrade $http_upgrade;  
    proxy_set_header Connection "upgrade";  
    proxy_set_header X-Real-IP $remote_addr;  
    proxy_set_header Host $http_host;  
}
```

4. Start PBS Access Web Services using the command:  
service pbsworks-pa start

---

**PA-4115 Mail notifications are not sent to the configured user for Array Jobs**

---

**Summary:** The mail notifications are not sent to the configured users for array jobs.

**Work Around:** No workaround for this issue.



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### **PA-4159 Remote Session Agent installer does not deploy GLXSpheres application definition in PAS**

---

**Summary:** The GLXSpheres application definition does not get deployed in PAS location after installing Remote Session component.

**Work Around:** Copy the Glxsphere application definition from application definition release repository to PAS application location at `PA_HOME/data/pas/targets/localhost/repository/applications` and update the `site-config.xml`.

---

### **PA-4230 Disk Space commands give wrong value while installing PBS Access**

---

**Summary:** Disk Space check seems to be happening on "/" file system when we are installing PBS Access on a separate mounted directory which has more than the required disk space for installation.



If user is unable to install PBS Access Web due to Disk Space check, one can switchoff by setting below environment before installation:  
`export CHECK_DISK_SPACE=OFF`

**Work Around:** No workaround for this issue.

---

### **PA-4276 In the RVS Plot or Animation Table of Contents page, job output files cannot be chosen from the left menu**

---

**Summary:** While specifying Plot or Animation parameters in RVS, input files for RVS cannot be selected from the Job Output files list on the left pane. Selecting the Job Output files from the left menu does not copy the plot or animation data of the selected file to the RVS view.

**Work Around:** You can follow the steps mentioned below:

1. Click **Close**.  
The **Output** tab is displayed.
2. Right click the result file.
3. Select **Open with** and click **Plot TOC** to visualize the results.

---

**PA-4312 presubmit.py will not access files from user's home directory in shared mounts**

---

**Summary:** presubmit.py will not be able to access any files from user's home directory in shared system.

**Work Around:** No workaround for this issue.

---

**PA-4317 The spinner for RVS Auto Refresh Time field in Preference does not display properly in the supported browser**

---

**Summary:** RVS Auto Refresh Time field accepts negative value and the spinner does not display properly in IE11, IE Edge and Chrome.

**Work Around:** No workaround for this issue.

---

**PA-4330 The input files are not displayed after clicking on JobID link**

---

**Summary:** Navigating to Jobs Details page by clicking on JobID link does not display Input files in Input tab.

**Work Around:** The input files are displayed after switching between Running Folder or the Details tab.

---

**PA-4335 Error (Index 0 Size 0) in file viewer if the user switches between restricted and accessible files**

---

**Summary:** If you click on a permission denied file and then click on a file which has read/write permission, then Index 0 Size 0 error is displayed in the File Viewer section.

**Work Around:** No workaround for this issue.

---

**PA-4336 In IE 11, the sub folders are not clickable in File Viewer section**

---

**Summary:** Not able to click on the sub folders in File Viewer section in IE 11. You can click the sub folder only after collapsing or expanding the parent folder.

**Work Around:** Sub folders will become clickable when you Collapse and Expand parent folder.

---

### **PA-4339 File download is failing at the root directory level**

---

**Summary:** Downloading the file at the root directory fails with the following error message:

```
"FileCompress : zip command could not open specified files to read, Permission Denied"
```

**Work Around:** No workaround for this issue.

---

### **PA-4346 Not able to open a file from Running Folder for the jobs submitted in additional HPC**

---

**Summary:** This issue occurs when you submit a job to one HPC and if you try to open a file from Running Folder of jobs submitted to another HPC. Due to this issue, other files operation in jobs details page breaks. If you switch to Files tab and work on the same HPC, then this issue is corrected.

**Work Around:** No workaround for this issue.

---

### **PA-4352 The file content in File Viewer is not getting highlighted if Auto Tail is in progress**

---

**Summary:** The file is not updated with the latest content in the File Viewer when you select Auto Tail option in File Viewer.

**Work Around:** No workaround for this issue.

---

### **PA-4353 PBS Access Installation fails if there is a space in the Home and Exec folder paths**

---

**Summary:** During PBS Access installation, if you provide Home and Exec folder path with a space then the installation fails. The default location of Home and Exec folders are:

```
PA_HOME - /var/spool/pbsworks/2018.3/access/home
```

```
PA_EXEC - /opt/altair/pbsworks/2018.3/access/exec
```

**Work Around:** No workaround for this issue.

---

**PA-4356 Job fails when PBS Access is installed on PBS commands and execution only setup**

---

**Summary:** Install PBS Access on PBS commands and execution only setup and submit a Job. The job fails and the error file contains the following message:

```
-bash: /var/spool/pbs/mom_priv/jobs/1484.blrvm9vm8.SC: /opt/altair/pbsworks/2018.3/access/exec/pas/python/python: bad interpreter: No such file or directory
```

All the components in PBS Professional should be switched off on the node for PBS Access and PBS Professional Command Line to work.

For example, the configuration required in PBS for Command Line only mode or PBS to work with PAW is as follows:

```
[root@blrvm9vm1 ~]# cat /etc/pbs.conf
PBS_EXEC=/opt/pbs
PBS_SERVER=blrvm9vm8
PBS_START_SERVER=0
PBS_START_SCHED=0
PBS_START_COMM=0
PBS_START_MOM=0
PBS_HOME=/var/spool/pbs
PBS_CORE_LIMIT=unlimited
```

**Work Around:** No workaround for this issue.

---

**RVS-1241 RVS server does not respond when the number of data points in a plot is too high**

---

**Summary:** The RVS server does not respond to fetch data points if the number of data points in a curve is above 300000. The RVS Service is overloaded and cannot fetch 300000 data points for a plot.

**Work Around:** No workaround for this issue.

---

### **RVS-1243 Settings menu overlaps the plot buttons**

---

**Summary:** If you access the User Settings menu (located at the top-right corner of the application) while you are on the Results viewer pane, the Plot buttons (located at the top-right corner) are overlapped.

**Work Around:** In this scenario, the PBS Access User Settings menu options and the Result viewer Plot options though overlapped are still accessible with a regular click.

---

### **RVS-1265 Unable to export plot result as CSV file**

---

**Summary:** The Export as CSV option of a plot does not download the exported CSV file.

**Work Around:** The export to CSV fails as the export token URL is secured.

1. Navigate to `PA_HOME/config/api_gateway/default.d/`
2. Open the `resultmanager.conf` file.
3. Locate the following line in `resultmanagerservice` block:  
`proxy_pass https://resultmanager/resultmanagerservice;`
4. Add the following line:  
`rewrite (.*[.csv])[&](.*)$ $1?$2 break;`
5. Restart PBS Access Web services using the command:  
`service pbsworks-pa restart`

