Altair Access Web 2019.1

ReleaseNotes

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Altair® PBS Works® v.2019.1

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Altair Access Web Release Notes

These release notes describe the system requirements, new features, resolved and known issues of Altair Access[TM] Web 2019.1. Please see the following sections for more information:

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

About Access Web

Altair's new 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 Access Web remote visualization and collaboration capabilities bring access to an expensive, highend 3D visualization datacenter hardware right to the user. Access Web provides an ability to visualize the results by extracting plot and animation data. View plots for running jobs as well as for jobs which have been successfully completed. Download and analyze animations using the Altair HyperView Player.

Altair 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

To obtain the latest release package, contact your Altair sales representative by writing to sales@altair.com or support@altair.com. For more information, visit us at www.pbsworks.com.

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.

To obtain the latest release package, contact your Altair sales representative by writing to sales@altair.com or support@altair.com. For more information, visit us at www.pbsworks.com.

System Requirements for Access Web

Supported Platforms

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

- Red Hat Enterprise Linux 7.1 to 7.6
- Cent OS 7.1 to 7.6
- SLES 12 SP1 to 12 SP3

Supported Server Platforms

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 Access Web

Minimum hardware configuration required for Access Web are:

Table 1. Hardware requirements for 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.

You can install Access Web and HyperWorks Desktop software separately. The HyperWorks Desktop path can be made accessible from Access Web by creating a mounting point for the HyperWorks installed directory on Access Web installed machine.

> For a better performance of RVS, mount the stage directory and scratch directory on the Access Web installed machine if Access Web and PAS are installed separately.

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 Access Web

Supported Product Configurations

The currently supported Access Web product configurations for Linux are:

Access Web	PAS	PBS Professional	Hyperworks
2019.1	2019.1	19.1.1(OSS) 18.2.3 18.2.2 18.1.1(OSS)	14.0 2017.2

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

The currently supported Access Web product configurations for Windows Server 2016 are:

Access Web	PAS	PBS Professional	Hyperworks
2019.1	2019.1	19.1.1(OSS) 18.2.3	14.0 2017.2

New Features

This section provides information about the new features of Altair Access Web 2019.1:

- Job Submission Wizard
- New Profile Management
- Inline Progress of Job Input File
- Using Plot Templates
- Access Control
- Screen shots of Remote Session
- Copy Text to Remote Session
- Windows Support
- Running Job Operations in Windows

Job Submission Wizard

New enhanced job submission wizard allows you to submit a job by selecting an application and the saved profiles.

New Profile Management

Create and manage profiles using the Job Submission wizard, so that you can submit multiple jobs to the same application with the same arguments, thereby streamlining job submission.

Inline Progress of Job Input File

An inline progress bar is displayed while uploading an input file in the Job Submission form.

Using Plot Templates

You can now save a plot as a template file (.rvst). You can apply the template to a valid result file to generate a plot.

Access Control

Access Web provides a workflow for creating roles, creating users and assigning user to roles to restrict access to the various features.

Screen shots of Remote Session

Remote desktop screen shots can be copied to the clipboard. You can use the browser context menu to copy the image to clipboard or you can download the modal.

Copy Text to Remote Session

Now you can copy text from your local machine to remote sessions and from remote sessions to your local machine.

Windows Support

This is Beta version in this release.

Using Docker, you can load Access Web, install PAS, and install Remote Session in Windows. Refer to *Altair Access Web 2019.1 Administrator's Guide* for more information.

Running Job Operations in Windows

Earlier the operations executed on a running job used to be slow while interacting with the Access Web. In this release, Access Web uses messaging-based infrastructure which makes these operations run faster on a running job. Refer to *Altair Access Web 2019.1 Administrator's Guide* for more information.

Resolved Issues

This section provides information about resolved issues with Access Web 2019.1:

- PA-3272 Not able to submit jobs via Access Web when PBS Professional restarts
- PA-4317 The spinner for RVS Auto Refresh Time field in Preference does not display properly in the supported browser
- PA-4335 Error (Index 0 Size 0) in file viewer if the user switches between restricted and accessible files
- PA-4630 pas-del command was suspended when trying to delete another user's job
- RVS-1282 Single-click and double-click on a plot name in the legend cause the plot to be hidden
- RVS-1292 Overlay plot is disabled for the running jobs
- RVS-1293 The "Refreshing the plot, please wait..." message appears for a hidden plot
- RVS-1294 Saving an auto-refreshing plot causes the auto-refresh interval to become inconsistent
- RVS-1297 Animation is not working if the model file path is too long and truncated
- RVS-1302 File name repeated in the legend when overlay two different .rvs files
- RVS-1305 Unable to extract the large result files

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

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

Resolution: Restart PAS only after PBS Professional is up and running.

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.

Resolution: RVS Auto Refresh Time field does not accept negative value and the spinner displays properly.

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.

Resolution: There are no errors displayed when switching between restricted and accessible files.

PA-4630 pas-del command was suspended when trying to delete another user's job

Summary: The pas-del command waits for the login credentials and it was getting suspended, when trying to delete another user's job using the pas-del command.

Resolution: The pas-del command does not get suspended. A message is displayed when trying to delete another user's job.

RVS-1282 Single-click and double-click on a plot name in the legend cause the plot to be hidden

Summary: Earlier the single click and double click actions were the same.

Resolution: The double-click action is removed. When you click a curve or a plot name in the legend, the name is grayed out and the corresponding curve or plot is hidden. You can click the name again to view the hidden curve or plot.

RVS-1292 Overlay plot is disabled for the running jobs

Summary: Overlay plot was failing for all the running jobs and since the Add button to overlay a plot was disabled.

Resolution: Overlay feature is now enabled for all the running jobs.

RVS-1293 The "Refreshing the plot, please wait..." message appears for a hidden plot

Summary: Refreshing the plot data message appears while the running job result file is hidden.

Resolution: When an auto-refreshing plot is hidden, all the messages regarding the hidden plot remains hidden.

RVS-1294 Saving an auto-refreshing plot causes the auto-refresh interval to become inconsistent

Summary: When a running job plot is saved using Save Plot option, the set auto-refresh time interval is inconsistent.

Resolution: The application now auto refreshes consistently to receive the updated data for a running job only for the set time interval.

RVS-1297 Animation is not working if the model file path is too long and truncated

Summary: The animation file fails to load the view because the server is unable to read the truncated model file path name.

Resolution: Earlier, the truncated model file path from the UI was used for animation. Now, the complete model file path is used by the application. Hence, the animation loads and displays successfully.

RVS-1302 File name repeated in the legend when overlay two different .rvs files

Summary: When two .rvs files are overlaid, the file name is repeated for the overlaid .rvs file in the legend.

Resolution: For Overlay, the chosen .rvs file names are displayed in legend and in the Overlay Panel.

RVS-1305 Unable to extract the large result files

Summary: When plotting to view the large data result file, the application extracts the table of contents and if the process is longer than usual, the following message is displayed, "We are working on extracting the dataset for the TOC. This is taking longer than usual. Please wait for a few minutes and try again."

Resolution: The application continues to extract in the background and thus the message indicating to plot the result file after sometime.

Known Issues

This section provides information about known issues with Access Web 2019.1:

- 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-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-4230 Disk Space commands give wrong value while installing Access Web
- PA-4276 In the RVS Plot or Animation Table of Contents page, job output files cannot be chosen from the left menu
- PA-4611 The default file icons configured in Access Web are not optimal
- PA-4621 Job submission form displayed is blank, if the master file attached to saved profile is deleted
- PA-4625 EXECUTION_TIME failed by setting job.attr_date_time in presubmit.py
- PA-4783 File upload in running directory does not abort automatically even though job is no longer running
- PA-4859 Job submission is not successful, if large number of files with lengthy file names are included
- PA-4885 Notifications are displayed to User if additional application is assigned using Access Management
- PA-4896 Access management performance slows down in Access Web
- PA-4935 Resubmitting a Job fails in Access Web Windows environment
- PA-4936 Dynamic Application Definition in Windows environment
- PA-4937 Removing PAS from Access Web does not remove applications in AMS
- PA-4961 Clipboard support for remote session in Windows environment

- RVS-1307 Plotting CSV file fails when the file contains delimiters other than comma (,)

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

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-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: Reset preference to the default by enabling the Reset All option in Diagnosis preferences.

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

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

Work Around: Follow the steps mentioned below:

1. Stop Access Web Services using the command:

   `service pbsworks-pa stop`

2. Navigate to `/var/spool/pbsworks/2019.1/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 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.

PA-4230 Disk Space commands give wrong value while installing Access Web

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

> If user is unable to install 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: 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-4611 The default file icons configured in Access Web are not optimal

Summary: Configured default file icons used in Access Web does not have an optimal view as the icons used are in svg format.

Work Around: You can configure scalable icons to get the best view. Update the JSON file, `file-extensions.json` located at `PA_HOME/config/pa/` and placing the file icons at `PA_HOME/config/pa/fileicons/`

PA-4621 Job submission form displayed is blank, if the master file attached to saved profile is deleted

Summary: If the master file attached to the saved profile gets deleted, then the job submission form is blank when you submit a job using that saved profile.

Work Around: No workaround for this issue.

PA-4625 EXECUTION_TIME failed by setting job.attr_date_time in presubmit.py

Summary: TimeZone is added as an input field for EXECUTION_TIME due to this job submission fails as PBS does not recognize and validate the time zone value.

Work Around: No workaround for this issue.

PA-4783 File upload in running directory does not abort automatically even though job is no longer running

Summary: When you upload a file to the running directory and if the job is completed, then the file upload does not abort automatically.

Work Around: No workaround for this issue.

PA-4859 Job submission is not successful, if large number of files with lengthy file names are included

Summary: In Windows cluster, if you submit a job with the large number of include files (for example about 250 files) and if the files names are lengthy (for example about 150 characters) then the job is not submitted.

Work Around: No workaround for this issue.

PA-4885 Notifications are displayed to User if additional application is assigned using Access Management

Summary: User does not get any notifications if additional applications are added using the access management by portal administrator. The application list gets refreshed only when the user logs out and logs in to the portal.

Work Around: No workaround for this issue.

PA-4896 Access management performance slows down in Access Web

Summary: When the list of users crosses 50 in the access management list of roles, then the performance of access management operations slows down.

Work Around: No workaround for this issue.

PA-4935 Resubmitting a Job fails in Access Web Windows environment

Summary: An error is displayed while resubmitting a job in Access Web Windows environment.

Work Around: No workaround for this issue.

PA-4936 Dynamic Application Definition in Windows environment

Summary: A win32api error is displayed when you are using a dynamic application definition in Access Web Windows environment.

Work Around: Remove the following lines from start.py and remove the time_stamp

```
if sys.platform == 'win32':
PAS_EXECUTABLE = win32api.GetShortPathName(PAS_EXECUTABLE);
```

PA-4937 Removing PAS from Access Web does not remove applications in AMS

Summary: When registered PAS is removed, the applications related to that PAS is not removed from the Access Management service. The applications are still displayed in the Available Resources which can be mapped to a role in Access Management.

Work Around: No workaround for this issue.

PA-4961 Clipboard support for remote session in Windows environment

Summary: In windows environment, the clipboard does not support copying text from your local machine to remote sessions and from remote session to local.

Work Around: No workaround for this issue.

RVS-1307 Plotting CSV file fails when the file contains delimiters other than comma (,)

Summary: Plotting CSV file fails because it doesn't work for all the delimiters. Currently, CSV files with delimiter other than comma (,) are not supported.

Work Around: No workaround for this issue.