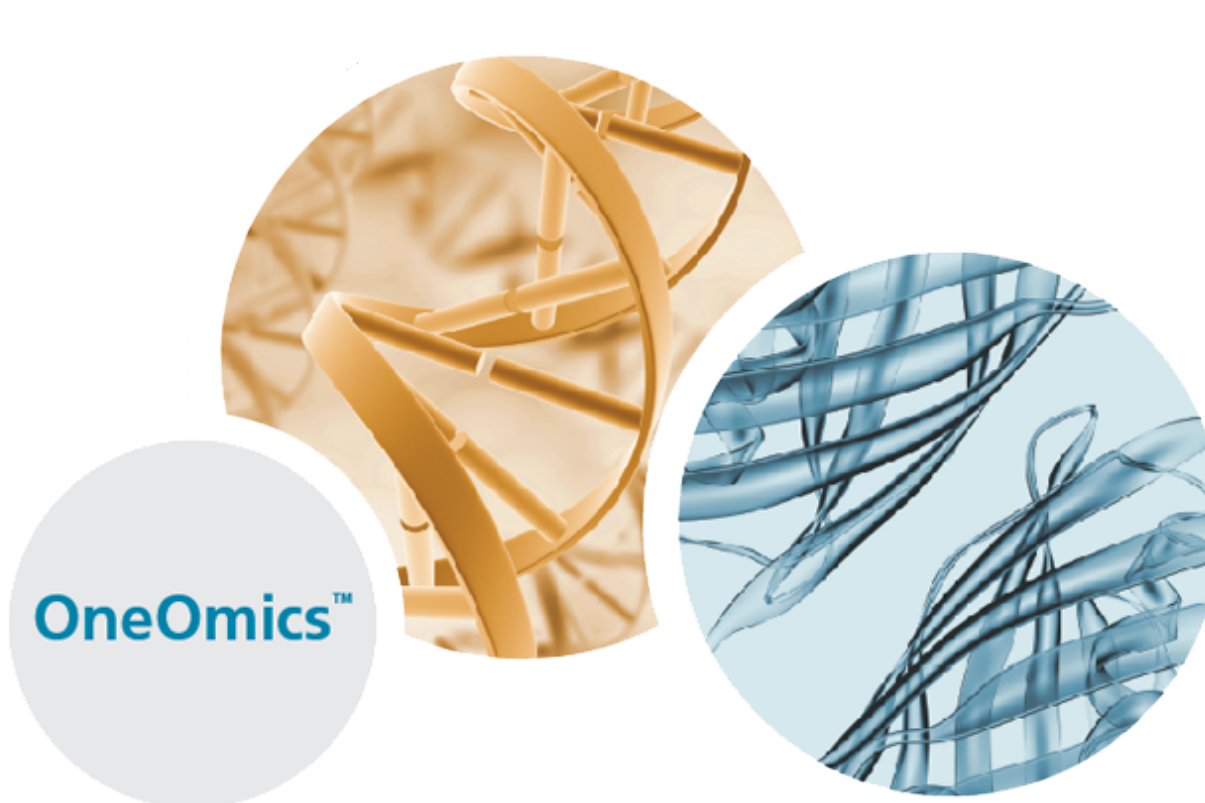

CloudConnect Micro-App 1.2 Beta

Release Notes



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The SCIEX CloudConnect Micro-App can be used to transfer files between Illumina BaseSpace and SCIEX Cloud and a computer running the PeakView[®] software, version 2.2. The CloudConnect Micro-App is used to upload SWATH[®] acquisition data files (TOF-MS SWATH .wiff files) along with an ion library consisting of transitions of select proteins and peptides as well as optional retention time calibration peptides to facilitate the use of the SCIEX SWATH[®] Proteomics Cloud Tool Kit for the processing of SWATH acquisition data. Users can share projects containing relevant files. The uploaded files can then be processed in the cloud using the OneOmics[™] Project cloud applications.

Use the CloudConnect Micro-App to inspect peak groups for individual peptides and then add retention time calibration peptides to the ion library, if necessary. The retention time calibration is performed as part of the processing in the Protein Expression Extractor application in the SCIEX Cloud. It is not performed in the CloudConnect Micro-App.

Features

The initial release, version 1.0, supported the following features:

- Logging on or logging off from BaseSpace.
- Importing SWATH[®] application .swath files that reside on the local computer.
- Importing ion library files (mzIdentML, ProteinPilot .group or .txt) residing on the local computer.
- Downloading .qresult files residing in BaseSpace.
- Downloading and importing ion library files (.txt) residing in BaseSpace.
- Uploading currently loaded .wiff files to BaseSpace.
- Uploading an IonLibrary.txt file that resides on the computer file system.
- Uploading the current session ion library (as a .txt file) to BaseSpace.
- Uploading current session files to BaseSpace.
- Showing upload and queue status.
- Launching the BaseSpace Web site in the default external browser.
- Fault-tolerant, multi-threaded background uploading of files to the cloud.
- Generating a retention time calibration protein by selecting calibration peptides and visualizing the peptide fragment XIC peak group and the resulting calibration curve. The calibration takes place in the cloud as part of the Protein Expression Extractor workflow.

Changes from Version 1.0 to Version 1.0.1

- In version 1.0 of the CloudConnect Micro-App, when the user cleared the check box for a protein, the user had to also manually clear the check boxes for the associated peptides to make sure that the peptides were not unintentionally uploaded to BaseSpace. In this version of the application, this issue has been fixed. If the user clears the check box for a protein, then the associated peptides are not uploaded to BaseSpace. This makes sure that only the required information is uploaded to BaseSpace. (OOM-18)
- In this version of the CloudConnect Micro-App, the Edit Ions icon has been renamed to View Ions to more accurately reflect the function of the icon. The View Ions dialog is view-only. The user cannot select or edit transitions. (OOM-19)
- In version 1.0 of the CloudConnect Micro-App, if the user submitted a file to BaseSpace using the CloudConnect Micro-App and then tried to open the same file locally, the CloudConnect Upload Service stopped responding. To avoid this issue, users had to wait until the file was successfully uploaded to BaseSpace before opening the file locally. This issue has been fixed. The latest saved version of the file is uploaded. (OOM-43)
- In version 1.0 of the CloudConnect Micro-App, if the user downloaded a session (.qresult file) from BaseSpace, using the **CloudConnect > Download > Load Session (BaseSpace)** option, then the associated wiff file was downloaded but none of the other required files, such as the corresponding .wiff.scan or .mtd files. In this version of the software, the ability to download a .wiff file is disabled in the CloudConnect Micro-App. To download a .wiff file and the corresponding files, users must use the download option in the BaseSpace project. (OOM-45)
- In this version of the CloudConnect Micro-App, files can be uploaded to BaseSpace from a network drive or from any type of removable media, for example, a USB stick. Users must make sure that the removable media is accessible until the upload is complete. (OOM-69)

Note: Uploading from the network might be slower than uploading from a local drive.

- In version 1.0 of the CloudConnect Micro-App, when the user imported a session file, the screen did not show the protein or peptide tables. The user had to maximize the CloudConnect Micro-App to view the tables. This issue has been fixed. (OOM-72)
- In version 1.0 of the CloudConnect Micro-App, when the user submitted a file to BaseSpace, a message dialog indicating that the files were successfully submitted opened. To view the status of the upload, the user had to click **CloudConnect > Upload > Upload Queue and Status** to access the Upload Queue And Status dialog. In this version of the application, the Upload Queue and Status dialog opens automatically when the files are submitted, showing the progress of the upload, in real-time. (OOM-73)
- In this version of the CloudConnect Micro-App, the following additional file types can be uploaded to BaseSpace:
 - FASTA files (must have .fas or .fasta extension) (OOM-74)
 - IDA .wiff files (OOM-75)
 - Text files (OOM-309)

Note: Uploading from the network might be slower than uploading from a local drive.

- In this version of the CloudConnect Micro-App, any completed project can be deleted from the Upload Queue And Status dialog. Refer to *Clean Up the Upload Queue* in the *CloudConnect Micro-App User Guide*.
- In this version of the CloudConnect Micro-App, computers equipped with a high network bandwidth can use the new Use Aggressive Upload Optimization option to maximize the information upload speed. This option increases the maximum number of threads used for uploading information to BaseSpace from 5 to 20 and the size of the upload from 5 MB to 15 MB.
- In this version of the CloudConnect Micro-App, the Help file (.chm file) has been replaced with the *User Guide*. The *User Guide* provides the user with all of the information needed to use the application. To access the *User Guide*, click **Help > CloudConnect--User-Guide.pdf** from the PeakView[®] software menu bar.
- In this version of the CloudConnect Micro-App, files can be uploaded to a shared folder, provided the user has the appropriate read and write access in the target folder.

Changes from Version 1.0.1 to Version 1.2 Beta

- User authentication is now performed through SCIEX CloudOS. A single login logs the user into both SCIEX Cloud and BaseSpace provided the user has linked their BaseSpace account to SCIEX CloudOS account. (See instructions below)
- CloudConnect has been updated to allow uploads to the SCIEX Data Store. A new menu option exist "Upload files to Sciex".
- Menu options to upload files to BaseSpace have been consolidated into one option called "Upload files to BaseSpace".
- A menu option has been added to Open SCIEX CloudOS.
- Uploads to BaseSpace are still supported, provided your BaseSpace account is connected to your SCIEX Cloud account. (See Chapter 3 for instructions)

System Requirements

Recommended Hardware

- Dell Precision T5600 computer
- Dual 8-core XEON @ 3.1 GHz
- 32 GB of RAM
- 2 TB primary hard drive, 7200 RPM
- 2 TB secondary hard drive, 7200 RPM
- 100 Mbps Network Interface Card (NIC)

Operating System

- Microsoft Windows 7 Professional (64-bit) with SP1

Software

- PeakView[®] software, version 2.2
- Microsoft Internet Explorer, version 9.0 or higher

Note: Although this version of Internet Explorer is required to install the CloudConnect Micro-App, BaseSpace is not compatible with Internet Explorer. Google Chrome must be used.

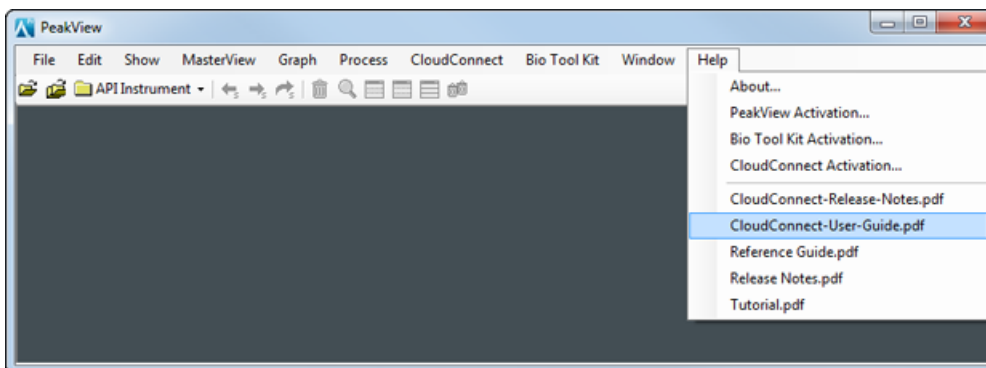
- Microsoft .NET Framework 4.5.1

Get Help

The help file is part of the SCIEX CloudConnect Micro-App installation.

To access the Help, click **Help > CloudConnect-User-Guide.pdf** from the PeakView® software menu bar.

Figure 1-1 Help Menu



Contact Us

SCIEX Support

- sciex.com/contact-us
- sciex.com/support/request-support

Customer Training

- In North America: NA.CustomerTraining@sciex.com
- In Europe: Europe.CustomerTraining@sciex.com
- Outside the EU and North America, visit sciex.com/education for contact information.

Online Learning Center

- [SCIEXUniversity](https://sciex.com/education)

Activate the CloudConnect Micro-App

2

Tip! Click **Help > About** to determine the version of the CloudConnect Micro-App.

Tip! Internet access is required to obtain a license for this feature.

1. Go to the sciex.com/support/software-downloads page and then select the **CloudConnect Micro App 1.2 Beta Software** from the Other Software Downloads list.
2. Save the software download .zip file to the computer desktop.
3. After the .zip file is downloaded, double-click the file and then extract all of the files to the computer.
4. Locate and then click the **CloudConnect.exe** file.
5. Follow the on-screen instructions.
6. Open the PeakView[®] software, version 2.2.
The CloudConnect Micro-App is loaded automatically.
7. In the PeakView[®] software menu bar, click **Help > CloudConnect Activation**.
The CloudConnect Micro-App Activation dialog opens.

Figure 2-1 CloudConnect Micro-App Activation Dialog

The screenshot shows a dialog box titled "CloudConnect Micro-App Activation". It contains the following text and controls:

To activate the CloudConnect, you must visit the SCIEX website and obtain a license file. If you have purchased the software, the license file activates the software. If you have a demo version, the license file activates the software for a limited time.

To obtain and install a license file, do the following:

1. Obtain the license key from the license certificate or packaging and enter here:
2. Generate a unique computer ID:

This ID is unique to this computer and cannot be used to obtain a license file for another installation of the CloudConnect.
3. Record the following computer ID:
4. Click the following link and follow the instructions:
<http://licensing.sciex.com/activation/CloudConnect>
After you submit the required information, a license file will be emailed to you.
5. Save the license file from the email message to your desktop.
6. Click the button below to install the license file.

For assistance, click [FAQs](#)

8. Type the license key from the license certificate in the appropriate field.
9. Click **Generate Computer ID**.
This creates a unique identifier for the workstation.
10. Click **Copy ID to Clipboard**.
11. Click the licensing link and then follow the instructions to obtain the license.

Note: If the computer where the CloudConnect Micro-App feature is being activated does not have Internet access, then make a copy of the generated computer ID. On a computer with Internet access, go to <https://licensing.sciex.com/activation/CloudConnect> and then follow the instructions to obtain a license.

After the required information is submitted, a license file is sent to all of the e-mail addresses provided.

12. Close the browser window.
13. When the e-mail containing the license file is received, copy the license file to the workstation desktop.

Activate the CloudConnect Micro-App

14. Click **Install License File** on the CloudConnect Micro-App Activation dialog.

The Select the new license file to be installed dialog opens.

15. Browse to and select the license file and then click **Open**.

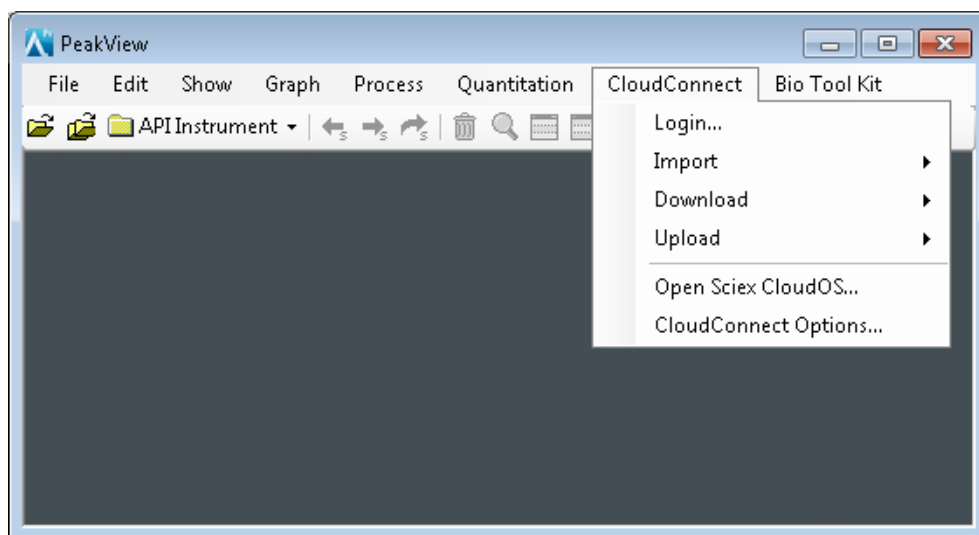
16. Click **OK**.

Link Your BaseSpace Account to SCIEX Cloud.

3

After the CloudConnect Micro-App is installed, the application menu is available from the PeakView® software menu bar.

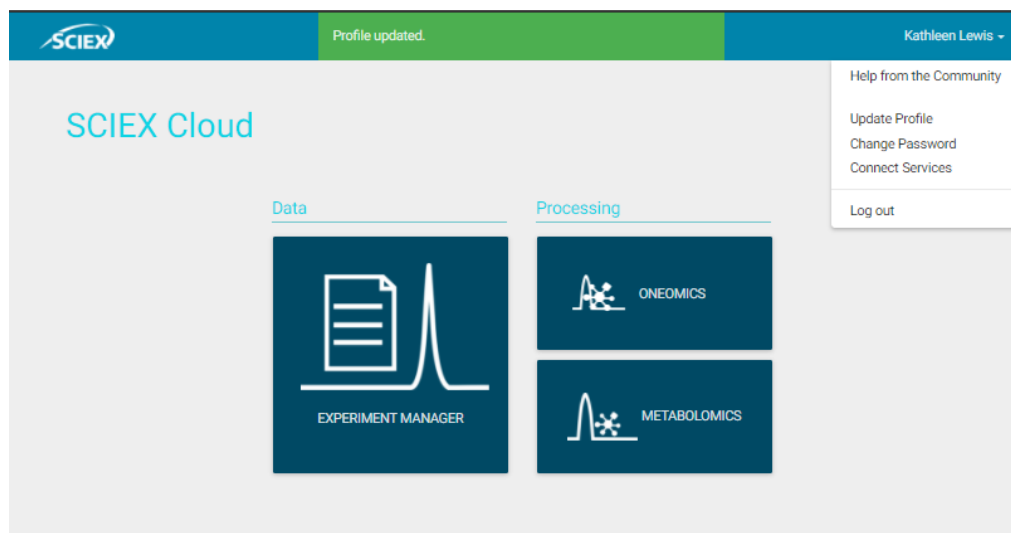
Figure 3-1 CloudConnect Main Menu



1. From the PeakView® software menu bar, click CloudConnect > Open Sciex CloudOS. The SCIEX Cloud dashboard opens.

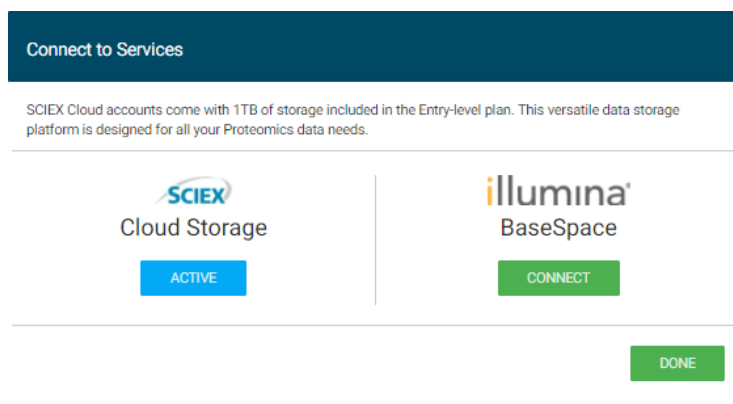
Link Your BaseSpace Account to SCIEX Cloud

Figure 3-2 SCIEX Cloud Dashboard



2. Click your name in the top right corner to display the menu.
3. Click **Connect Services**. The Connect to Services dialog opens.


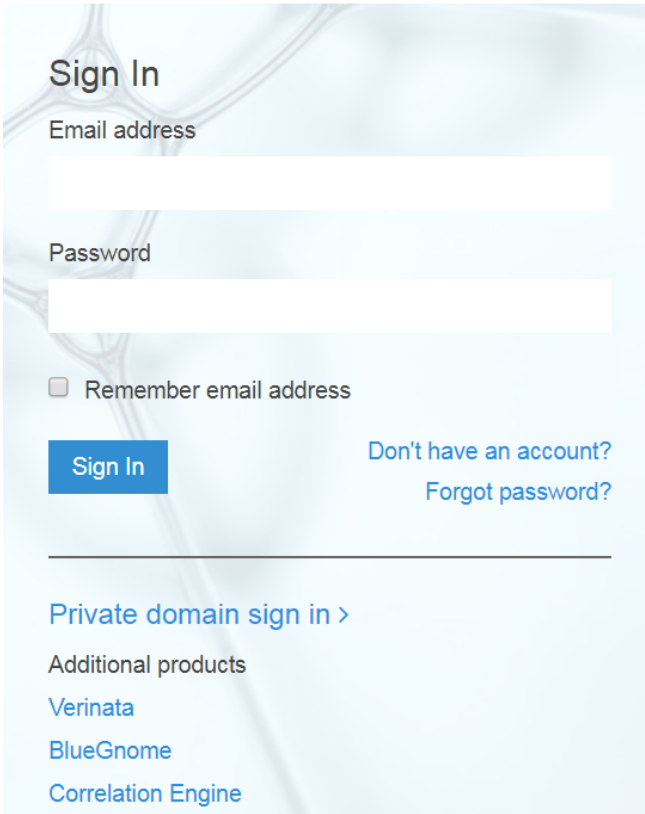
Figure 3-3 Connect Services Dialog



4. Click **Connect**. Illumina's BaseSpace login dialog appears.

Link Your BaseSpace Account to SCIEX Cloud

Figure 3-4 Illumina's BaseSpace Login Dialog

The login dialog features the Illumina logo at the top. Below it, the 'Sign In' section includes an 'Email address' field, a 'Password' field, and a 'Remember email address' checkbox. A blue 'Sign In' button is positioned to the left of the links 'Don't have an account?' and 'Forgot password?'. A horizontal line separates this section from the 'Private domain sign in >' link. Below this, the 'Additional products' section lists 'Verinata', 'BlueGnome', and 'Correlation Engine' as blue links.

5. Fill in your login credentials and click Sign In. Your BaseSpace account is not connected to SCIEX Cloud.

Known Issues and Limitations

4

Note: The numbers in brackets are reference numbers to each issue or feature in the SCIEX internal tracking system.

- When a user opens a .qresult (session) file using the CloudConnect Micro-App (**CloudConnect > Download > Load Session (BaseSpace)**) menu item, the following error message is shown: the process cannot access the file C:\Users\computername\AppData\Local\Temp\filename.qresult because it is in use by another process. To resolve this issue, navigate to the Temp folder specified in the message and then delete the appropriate .qresult file. If this does not resolve the issue, then close and open the PeakView[®] software. To avoid this issue, users can download the .qresult file from BaseSpace and then open the file using the CloudConnect Micro-App. The SWATH[®] acquisition data must be available on the local hard drive of the computer where the CloudConnect Micro-App is installed. (OOM-50)
- Data upload speeds vary based on the maximum connection speeds and internet traffic in your location. Actual speeds and total time to move and process data vary. We recommend a minimum connection speed of 20 Mbits/s to make efficient use of the CloudConnect Micro-App.
- File upload to BaseSpace can be faster than uploads to SCIEX CloudOS.
- When uploading to SCIEX after creating a new folder in the Upload to Data Store dialog there is a delay before OK is enabled. Clicking on the folder name will enable OK without the delay.

Troubleshooting

5

Symptom	Corrective Action
Upload > Upload Current Session Ion Library to BaseSpace and Upload > Upload Current Session files to BaseSpace menu items are not available.	<ul style="list-style-type: none">• Make sure that a session is open in the PeakView[®] software.• Make sure that the CloudConnect Uploader Service is Started (Start > Run > Services.msc).
Files cannot be uploaded to BaseSpace. The error message, <i>Unable to connect to the remote server</i> , is received.	<ul style="list-style-type: none">• Make sure that the Status of the CloudConnect Uploader Service is Started (Start > Run > Services.msc).• If the issue persists, then restart the service.
Some of the commands in the CloudConnect Micro-App do not work.	The CloudConnect Micro-App is based on the SWATH [®] 2.0 Micro-App and contains some commands and menu functions that are not available. Within the CloudConnect Micro-App, users can open saved .swath session files and then upload them to BaseSpace. Other data processing-related functions must be performed in the SWATH [®] 2.0 Micro-App.

Revision History

Revision	Reason for Change	Date
A	First release of document.	March 2015
B	Added changes from version 1.0 to Beta version 1.0.1. Updated system and software requirements. Updated issue OOM-50 in the Known Issues and Limitations section.	November 2015
C	Removed references to Beta Release. Added SCIEX internal tracking system identifiers to the Changes from Version 1.0 to Version 1.0.1 section. Updated the access information related to the <i>User Guide</i> . Added information about uploading to a shared folder in BaseSpace to the Changes from Version 1.0 to Version 1.0.1 section. Updated Figure 2-1, CloudConnect Micro-App Activation dialog. Updated licensing url.	March 2016
D	Added changes from version 1.0.1 to Beta version 1.2. Added Chapter 3. Link Your BaseSpace Account to SCIEX Cloud.	October 2017