Data Viewer Usage in PACE I&T

Overview

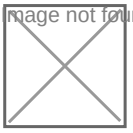
Usage of the Data Viewer in PACE I&T has changed since we no longer receive OCI science data in real-time. OCI Science File Archives are stored on-board PACE and downlinked at a later time. OCI HK and GSE data are still received in real-time.

A few updates to the Data Viewer and Science VMs have been made to accomadate for these changes.

We will be running 2 instances of the Data Viewer:

- One will be used to look at OCI HK and GSE data in real-time
- The other will be used to open OCI Science File Archives (which also contains OCI HK data)

In the bottom right of the VM, you will see 3 workspaces:



The **Live** workspace contains the Data Viewer that will receive OCI HK and GSE data in real-time from the FEDS. This instance of the Data Viewer works the same as in the OCI I&T environment.

The **Playback** workspace contains the Data Viewer that will be used to open and view OCI Science File Archives.

The **GSE** workspace contains an application that archives GSE data locally so it can be merged into the OCI Science File Archives so that OCI Science Data and GSE data can be viewed at the same time. You do not need to worry about this workspace.

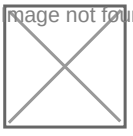
Viewing OCI Science Data

To view OCI Science Data, first switch to the **Playback** workspace.

Open the **Local Playback** window:

- In the bottom menu bar, click on **ocidataview**. If the **Local Playback** window is already open, select it.
- If not already open, select **OCI Data Viewer > Setup > Local Playback**

You should see a window popup that looks like this:



Archive Index:

The **Archive Index** section on the right side displays the OCI Science File Archives that have been downlinked to the ground. You can click the **Refresh** button to refresh the list of archives. The list is also automatically refreshed the first time the **Local Playback** window is opened. This implies that the list is not automatically kept in sync with what archives have been downlinked.

You may click **Load Selected Archive** to immediately open the currently selected archive. *Note: Using this method will not contain any GSE data.*

Playback:

The **Playback** section on the left side is used for playing back time ranges of data. When you use this functionality, it will attempt to merge GSE and OCI data so that both are viewable at the same time.

Selecting an archive in the **Archive Index** list will automatically update the **Start** time input. A **Duration** can be selected to choose how much data will be viewed. The max duration is 10 minutes due to resource limitations.

NOTE: The **Set to most recent** is NOT aware of what data exists in the archives. It offsets from the system's current time, not the data.

Fast as possible should generally be left checked.

Once configured, click **Start** to initiate the playback. When the playback has finished, the Data Viewer will automatically load the archive.

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