

Euclid VIS IWS

User Manual

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Chapter 1

Introduction

1.1 Scope

1.2 Applicable Documentation

1.3 Reference Documentation

1.4 Terms, Definitions and Abbreviated Terms

AD	Applicable Document
AIT	Assembly, Integration and Test
AIV	Assembly, Integration and Verification
a.k.a.	Also Known As
APID	Application ID
SW	Software
TBC	To Be Confirmed
TBD	To Be Decided
TC	Telecommand
TICD	Thermal Interface Control Document
TM	Telemetry
w.r.t.	With Respect To

1.5 `mock_IWS_CC.py`: A mocked-up `i_cc` main IWS SW form

This section describes the functionality of the `mock_IWS_CC` main form.

When launched from a terminal, the `mock_IWS_CC.py` python script shows a QT5 graphical form, as shown in Fig. 1.1:

Mock IWS CC (mock_CC) (v1.0.4-1-g6a73416)

Configuration

- ./config/defaults/packet_defaults.json
- ./config/defaults/system_defaults.json
- ./config/defaults/test_config.json

Data Source

- ~/Desktop/ex1.csv
- ~/Desktop/foo.csv
- ~/Desktop/bar.csv
- ~/ex1.csv
- /media/pc_export/ex1.csv
- /home/mcrw/Desktop/obs.csv
- /home/mcrw/Desktop/ex1.csv
- /home/mcrw/Euclid/DART_dumps/dartSave_3.25.csv

Delete Browse

Connection protocol

☒ CCS ☐ EDDS

Connect

Status: Disconnected
Server IP: Unknown

Launch

Launch HKTM Monitor

Close HKTM Monitor

Request

Real Time Mode

Request HK/TM Metadata

Stop HK/TM Acquisition

Information

Timespan specified:

From: 20200611_19:50:44

To: 20200611_21:52:44

7320 sec

TDelta:

Define Timespan

Define from dump file

Define Timespan with anchor at timestamp:

☒ Left Edge ☐ Middle Point ☐ Right Edge

and after, or until

and before, and

and before, or from

Log

```

2020-06-11 19:51:27.086 - INFO - Define Timespan push button pressed
2020-06-11 19:51:27.098 - INFO - Determining Timespan using anchor at timestamp: Left Edge
2020-06-11 19:51:27.098 - INFO - Timespan from : 20200611_19:50:44 (1591985044 sec)
2020-06-11 19:51:27.098 - INFO - Timespan to : 20200611_19:52:44 (1591985164 sec)
2020-06-11 19:51:27.098 - INFO - Timespan duration : 120 sec
2020-06-11 19:52:37.999 - INFO - Define Timespan push button pressed
2020-06-11 19:52:37.999 - INFO - Determining Timespan using anchor at timestamp: Left Edge
2020-06-11 19:52:38.000 - INFO - Timespan from : 20200611_19:50:44 (1591985044 sec)
2020-06-11 19:52:38.000 - INFO - Timespan to : 20200611_21:52:44 (1591912364 sec)
2020-06-11 19:52:38.000 - INFO - Timespan duration : 7320 sec
  
```

☐ Clear log display area before every request ☐ Write requests and results into logfile

Figure 1.1: Initial screen for the IWS SW main (mocked-up) form: mock_IWS_CC.py.

1.6 Use Case 1: User defines a Timespan from dump file, fires up hktm_monitor, selects default setup, and hits 'Request HK/TM metadata'

User action: User launches `mock_IWS_CC`, defines a Timespan from dump file, launches `hktm_monitor`, selects default `hktm_param_list`, and presses the 'Request HK/TM metadata' pushButton.

Response:

Figure (such-and-such-here) and fig. (such-and-such-here) show the detailed steps:

1.7 Use Case 2: User hits 'REAL TIME MODE'

User action: immediately after launching `mock_IWS_CC`, the user presses the 'REAL TIME MODE' pushButton.

Response:

- Check if a Timespan is defined (we do not know if some other buttons are pressed, if some Timespan is defined).
 - If Y, check if it spans only past, well before ϵ and / or K.
 - If Y, suggest to user to go for 'Request HK/TM metadata' instead of 'REAL TIME MODE', using a `QMessageBox`.
 - If user accepts, go for `request_hktm_metadata("None", start_time, end_time)`
 - If user declines, ...
 - If no Timespan is defined, ...

Figure (such-and-such-here) and fig. (such-and-such-here) show the detailed steps:

1.8 Use Case 3: User defines a Timespan and hits 'REAL TIME MODE'

User action: User launches `mock_IWS_CC`, defines a Timespan and presses the 'REAL TIME MODE' pushButton.

Response: Similar to the use case of Section 1.7.
