

The new Phase 2 Proposal Preparation (P2PP) tool

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P 2 P P

3.3.0



The new P2PP: New Concepts

P2PP v2

- OBs are individual units
execution of OBs is independently
- Execution times of OBs which are
executed in immediate sequence is
identical to their summed execution
time if observed days apart.

P2PP v3

- OBs can be organized in
structural units (**Containers**)
OBs can be “linked”
→ implementation of observing
strategies already on the OB level
- Execution times of OBs which are
concatenated, hence executed in
immediate sequence, is less than
the exec. time sum of the individual
OBs

The new P2PP: New concept of scheduling containers

CONCATENATION

TIME-LINK

GROUP

The new P2PP: scheduling containers

Concatenation

- A set of OBs that has to be executed back-to-back with no other observation in between

Example: Science + Calibrator, or IMG + SPEC observation executed back-to-back

- Once one OB is sent to the execution sequence, all OBs of the concatenation go to the execution sequence
- A Concatenation can be successfully executed only if ALL concatenated OBs are successfully executed (Completed)
- If one OB of the concatenation “fails”, the whole concatenation must be repeated

The new P2PP: scheduling containers

Time-link

- A sequence of OBs that has to be executed with minimum and maximum *relative* time delay

Example: monitoring of a variable source once per month

- The first OB in a sequence may have absolute time windows
- All subsequent OBs have lower and upper time limit for execution
- As soon as the first OB in a sequence gets status Completed, the next OB gets absolute time window
- Possibility to roll-back the time in case the OB is re-classified from “C” (completed) to “M” (must-repeat)
- OBs with absolute time windows may **EXPIRE!**

New OB status “F” (failed)

The new P2PP: scheduling containers

Group

- A set of OBs which have some (soft) interdependency.

A desirable constraint to execute OBs close to each other in time once the first group OB is executed that group has higher priority than other groups.

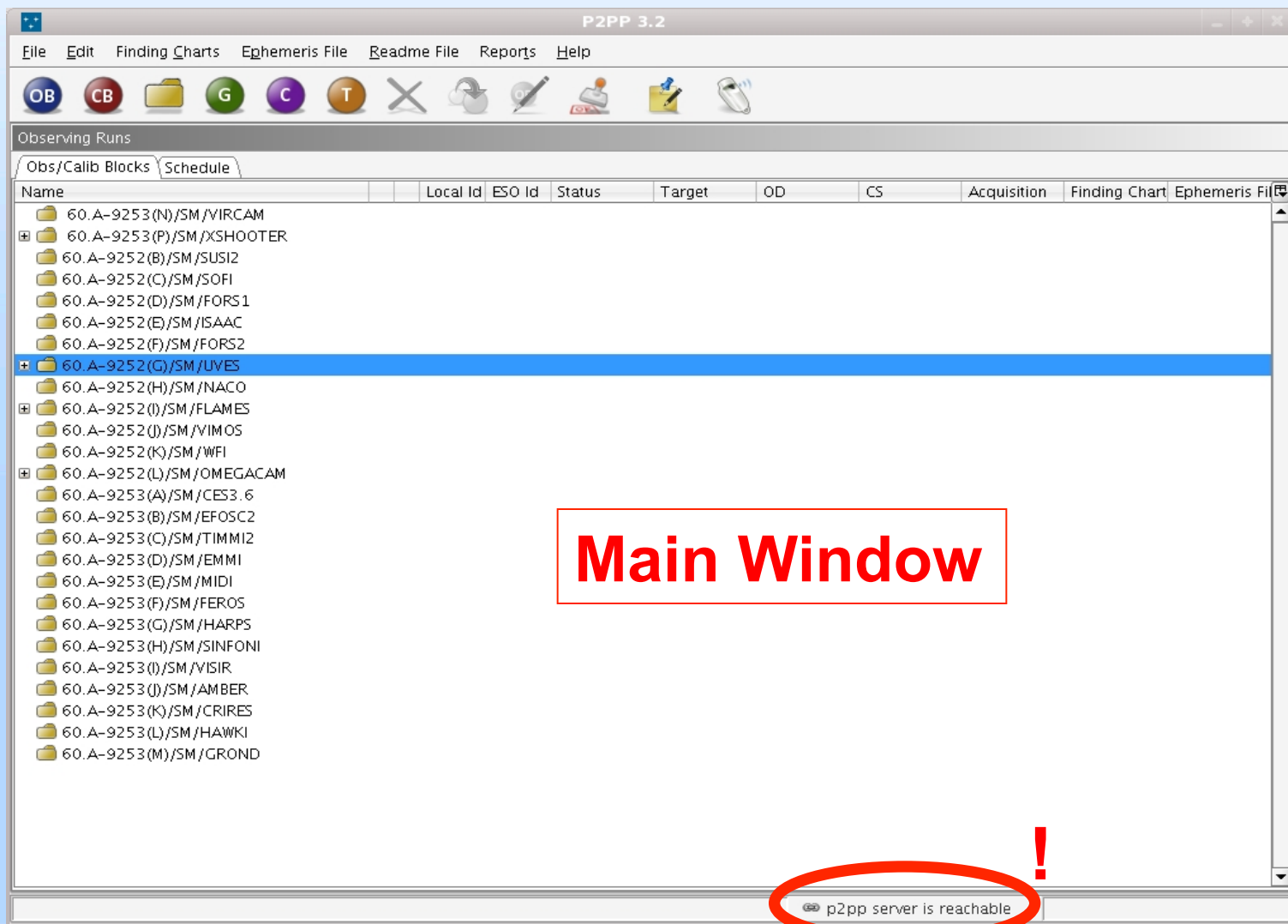
Example: once the B-band observations of target 1 was executed it is desirable to execute the associated V-band observation of the same target, before starting to observe the next target.

- This is the most loose concept
- The execution of the OBs is independent
- By executing one OB from a group, this group gets higher priority with respect to other groups of the same programme – **group contribution affects group score**
- Useful in particular for larger programmes/surveys

The new P2PP: First steps

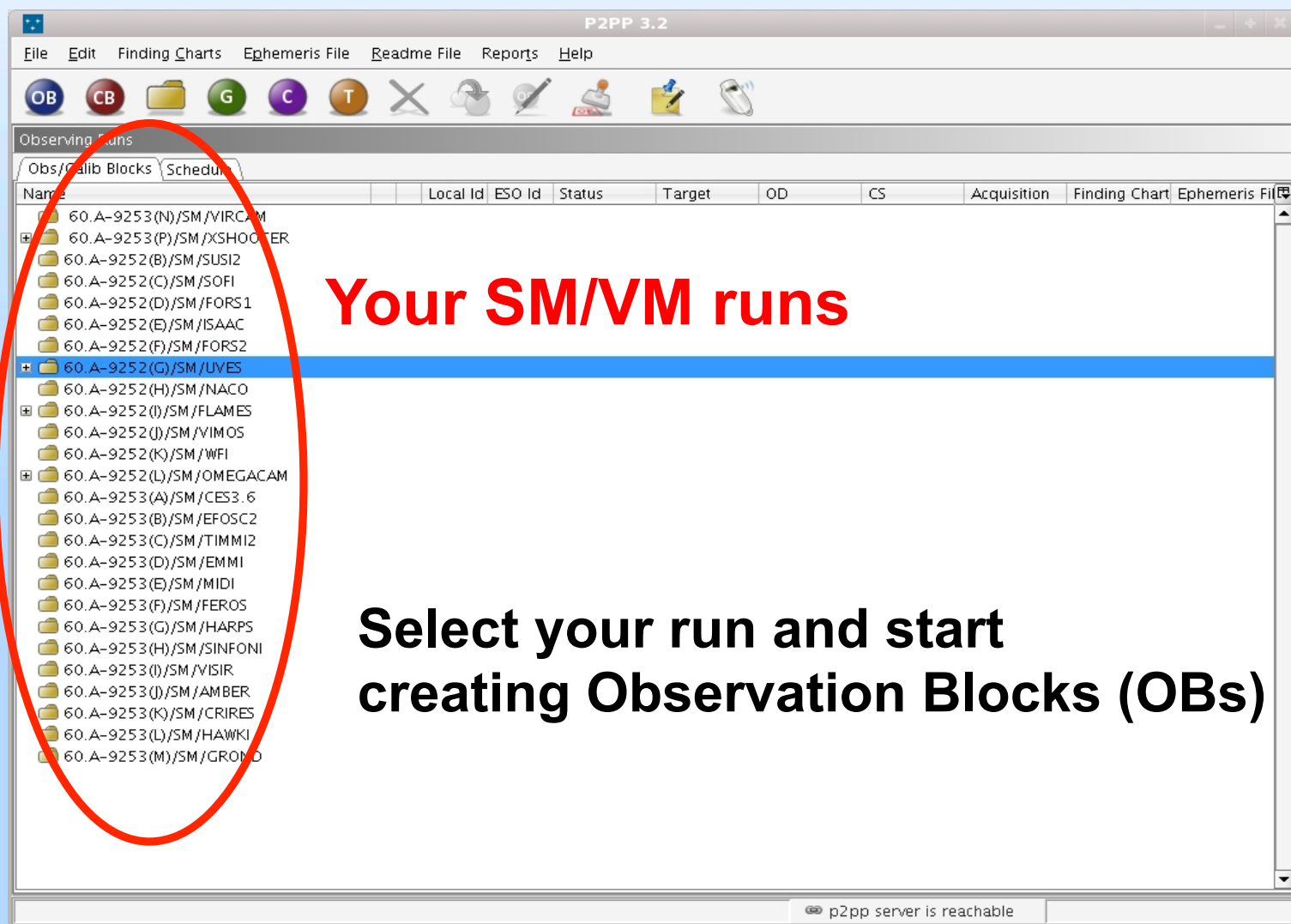
The image shows a screenshot of a 'Login' dialog box titled 'P2PP login'. It contains an information icon and the text 'Please enter your username and password.' Below this is a section titled 'Credentials' with a lock icon. Inside this section are two input fields: 'Username' with the placeholder text 'YOUR_USERPORTAL_USERNAME' and 'Password' with masked characters (dots). At the bottom of the dialog are 'OK' and 'Cancel' buttons.

The new P2PP: First steps

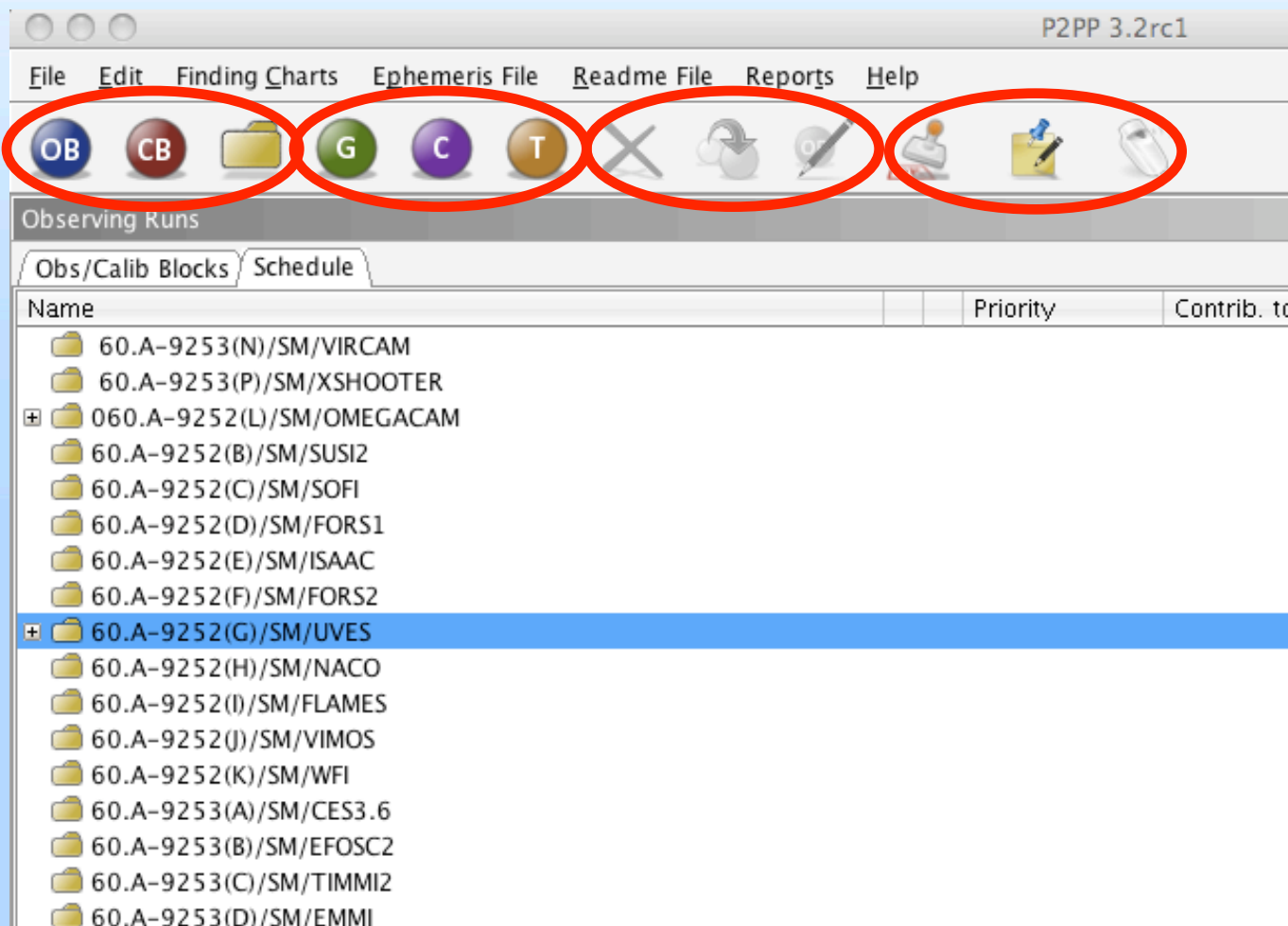


Main Window

The new P2PP: First steps



The new P2PP: Creating OBs



The new P2PP: Creating OBs

P2PP 3.2rc1

File Edit Finding Charts Ephemeris File Readme File Reports Help

OB CB Folder G C T X Refresh Save Print

Observing Runs

Obs/Calib Block Schedule

Name

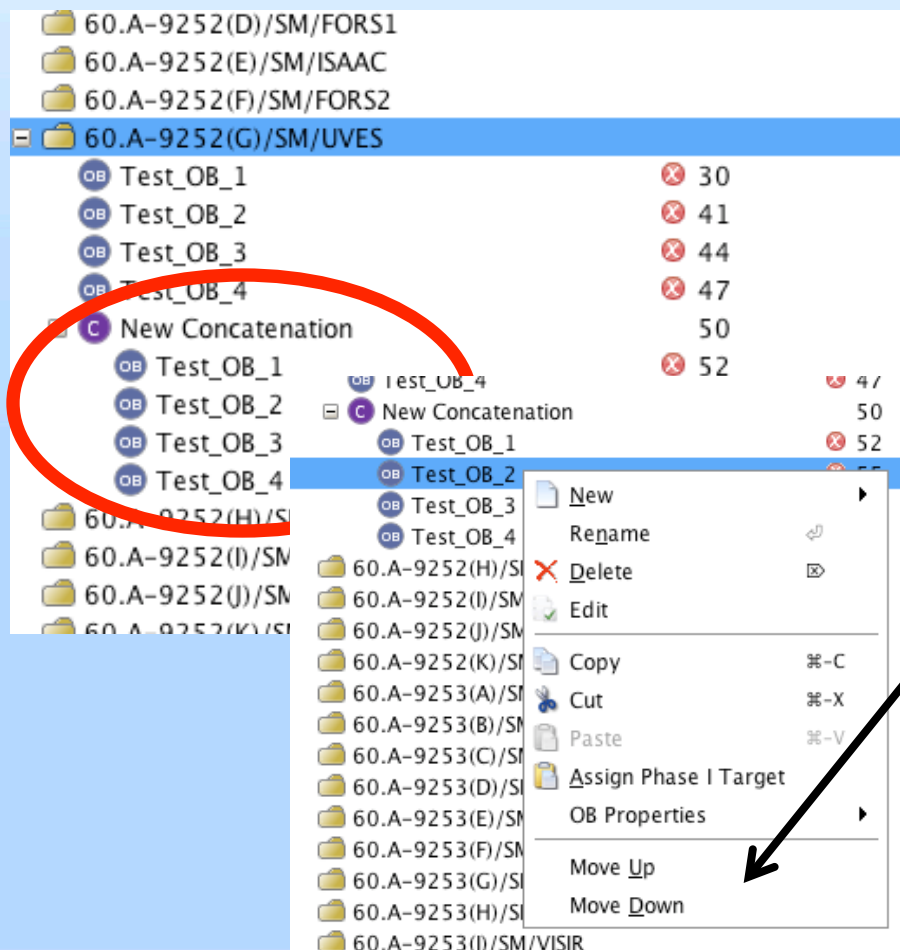
60.A-9253(N)/SM/VRCAM	60.A-9252(D)/SM/FORS1		
60.A-9253(P)/SM/XSHOOTER	60.A-9252(E)/SM/ISAAC		
60.A-9252(L)/SM/OMEGACAM	60.A-9252(F)/SM/FORS2		
60.A-9252(B)/SM/SUSI2	60.A-9252(G)/SM/UVES	OB Test_OB_1	30
60.A-9252(C)/SM/SOFI		OB Test_OB_2	41
60.A-9252(D)/SM/FORS1		OB Test_OB_3	44
60.A-9252(E)/SM/ISAAC		OB Test_OB_4	47
60.A-9252(F)/SM/FORS2		C New Concatenation	50
60.A-9252(H)/SM/NACO		OB Test_OB_1	52
60.A-9252(I)/SM/FLAMES		OB Test_OB_2	55
60.A-9252(J)/SM/VIMOS		OB Test_OB_3	58
60.A-9252(K)/SM/WFI		OB Test_OB_4	61
60.A-9253(A)/SM/CES3.6	60.A-9252(H)/SM/NACO		
60.A-9253(B)/SM/EFOSC2	60.A-9252(I)/SM/FLAMES		
60.A-9253(C)/SM/TIMM12	60.A-9252(J)/SM/VIMOS		
60.A-9253(D)/SM/EMMI	60.A-9252(K)/SM/WFI		

double-click on OB to edit

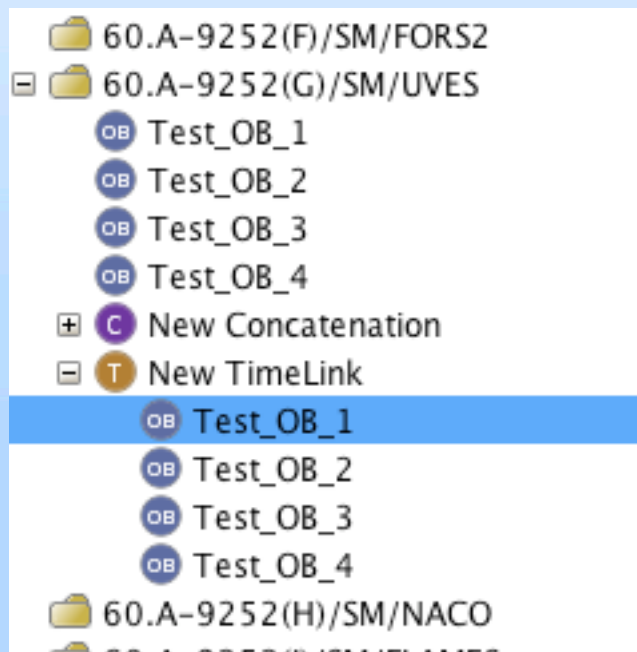
The new P2PP: Creating OB concatenations

Important notes:

- OBs are executed in a continuous sequence
- Sequence defined by order of OB submission, change of sequence order in P2PP
- Do not define different transparency constraints for OBs
- Maximum allowed length of concatenation exec.Time is 1 hour

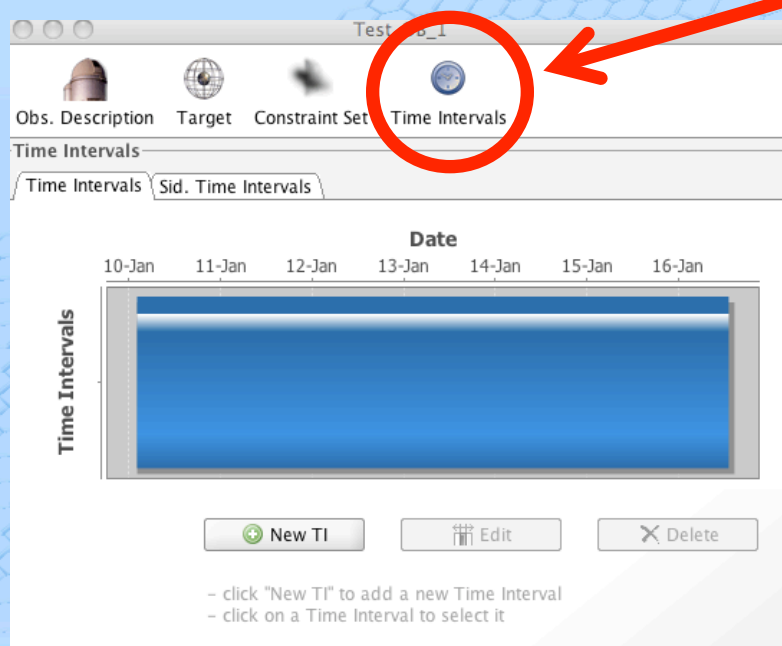


The new P2PP: Creating Time-link OB containers



Important notes:

- The first OB can have an absolute time constraint, to be defined within the OB (double-click on OB and go to “Time Intervals”)



The new P2PP: Creating Time-link OB containers

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OB CB G C T X

Observing Runs

Obs/Calib Blocks **Schedule**

Name	Priority	Contr	Abs	Earliest After Prev.	Latest After Prev.
60.A-9253(N)/SM/VIRCAM					
60.A-9253(P)/SM/XSHOOTER					
60.A-9252(L)/SM/OMEGACAM					
60.A-9252(B)/SM/SUSI2					
60.A-9252(C)/SM/SOFI					
60.A-9252(D)/SM/FORS1					
60.A-9252(E)/SM/ISAAC					
60.A-9252(F)/SM/FORS2					
60.A-9252(G)/SM/UVES					
OB Test_OB_1	1		0		
OB Test_OB_2	1		0		
OB Test_OB_3	1		1		
OB Test_OB_4	1		0		
New Concatenation	1				
New TimeLink	1				
OB Test_OB_1	1		1	002d 00:00	005d 00:00
OB Test_OB_2	1			002d 00:00	005d 00:00
OB Test_OB_3	1			002d 00:00	005d 00:00
OB Test_OB_4	1			002d 00:00	005d 00:00
60.A-9252(H)/SM/NACO					
60.A-9252(I)/SM/FLAMES					

Important notes:

- Subsequent OBs within Time-Link can only have relative (wrt previous OB) time constraints

The new P2PP: Creating OB groups

60.A-9252(G)/SM/UVES			
OB Test_OB_1	✗	1	
OB Test_OB_2	✗	1	
OB Test_OB_3	✗	1	
OB Test_OB_4	✗	1	
+ C New Concatenation		1	
+ T New TimeLink		1	
+ G New Group		1	
OB Test_OB_1	✗	10	
OB Test_OB_2	✗	10	
OB Test_OB_3	✗	10	
OB Test_OB_4	✗	10	
60.A-9252(H)/SM/NACO			

Important notes:

- Used to implement observing strategy, such as execute all filter observations of target 1 first, before starting target 2

→ Group1 (target1)

Group2 (target2)

but: soft requirement

- If execution of an OB fails (execution unsuccessful), only this OB will be re-scheduled, not all OBs of the Group.

The new P2PP: Creating OB Groups

The screenshot shows the 'Observing Runs' window in the P2PP software. The 'Obs/Calib Blocks' tab is selected. The table has columns for 'Name', 'Priority', and 'Contrib. to Group'. Annotations include red circles around the 'Priority' column header and the 'Group Target1' and 'Group Target2' rows, and a black circle around the 'Contrib. to Group' column header. Arrows point from the text in the 'Important notes' section to these annotations.

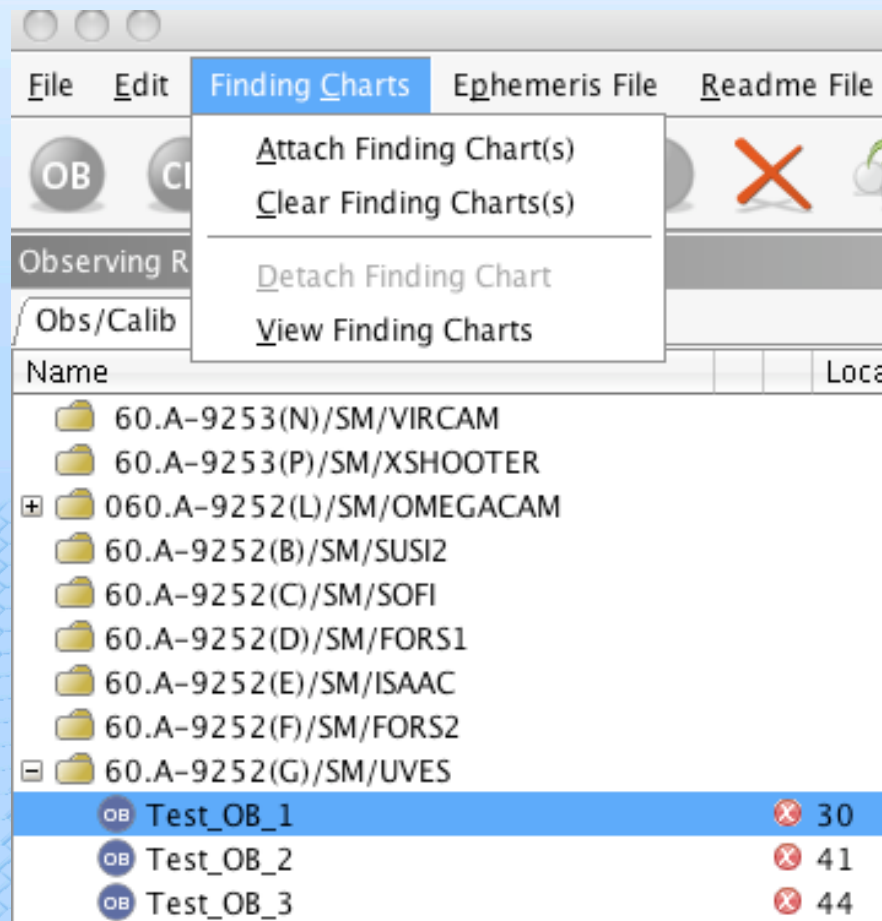
Name	Priority	Contrib. to Group
60.A-9252(F)/SM/FORS2		
60.A-9252(G)/SM/UVES		
OB Test_OB_1	1	
OB Test_OB_2	1	
OB Test_OB_3	1	
OB Test_OB_4	1	
New Concatenation	1	
New TimeLink	1	
Group Target1	1	10
OB Target1_OB_1		10
OB Target1_OB_2		20
OB Target1_OB_3		10
OB Target1_OB_4		
Group Target2	2	30
OB Target2_OB_1		10
OB Target2_OB_2		10
OB Target2_OB_3		10
OB Target2_OB_4		10
60.A-9252(H)/SM/NACO		
60.A-9252(I)/SM/FLAMES		

Important notes:

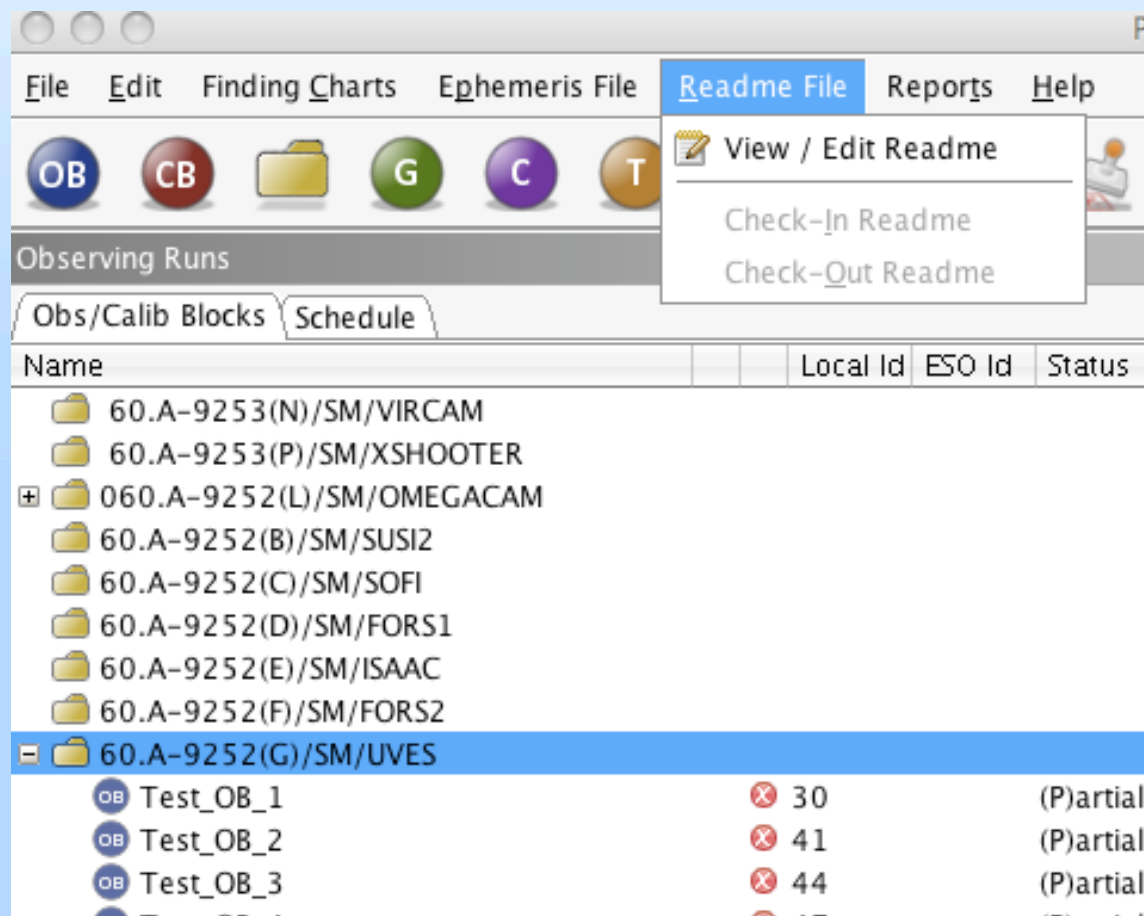
- Any Group may have a higher execution priority than another group (e.g. execution of target 1 is more important than target 2)
- Within a group different OBs can have different priorities

The new P2PP: Final steps

- attaching Finding Charts to OBs

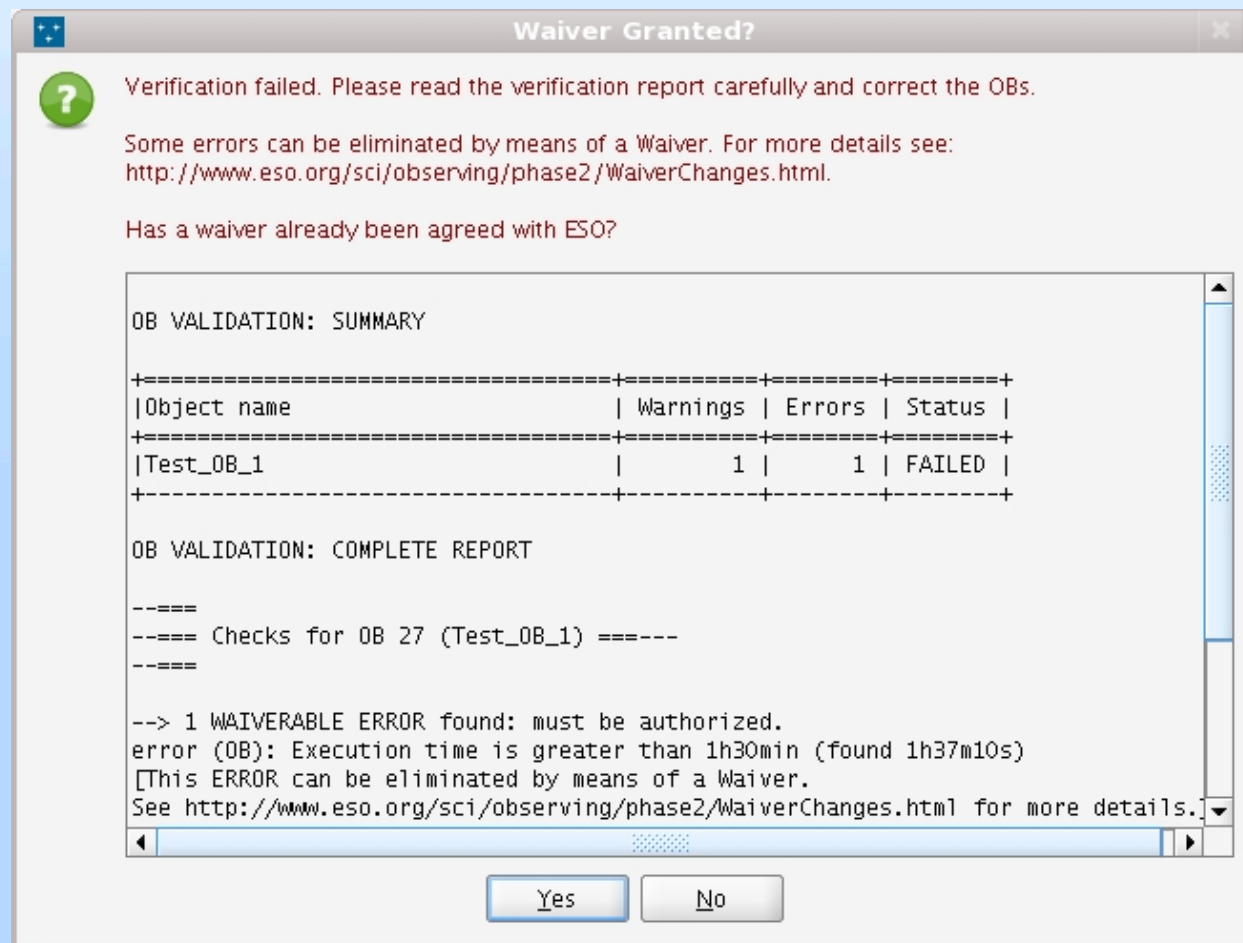


The new P2PP: Final steps



- writing and submitting
ReadMe file of runs

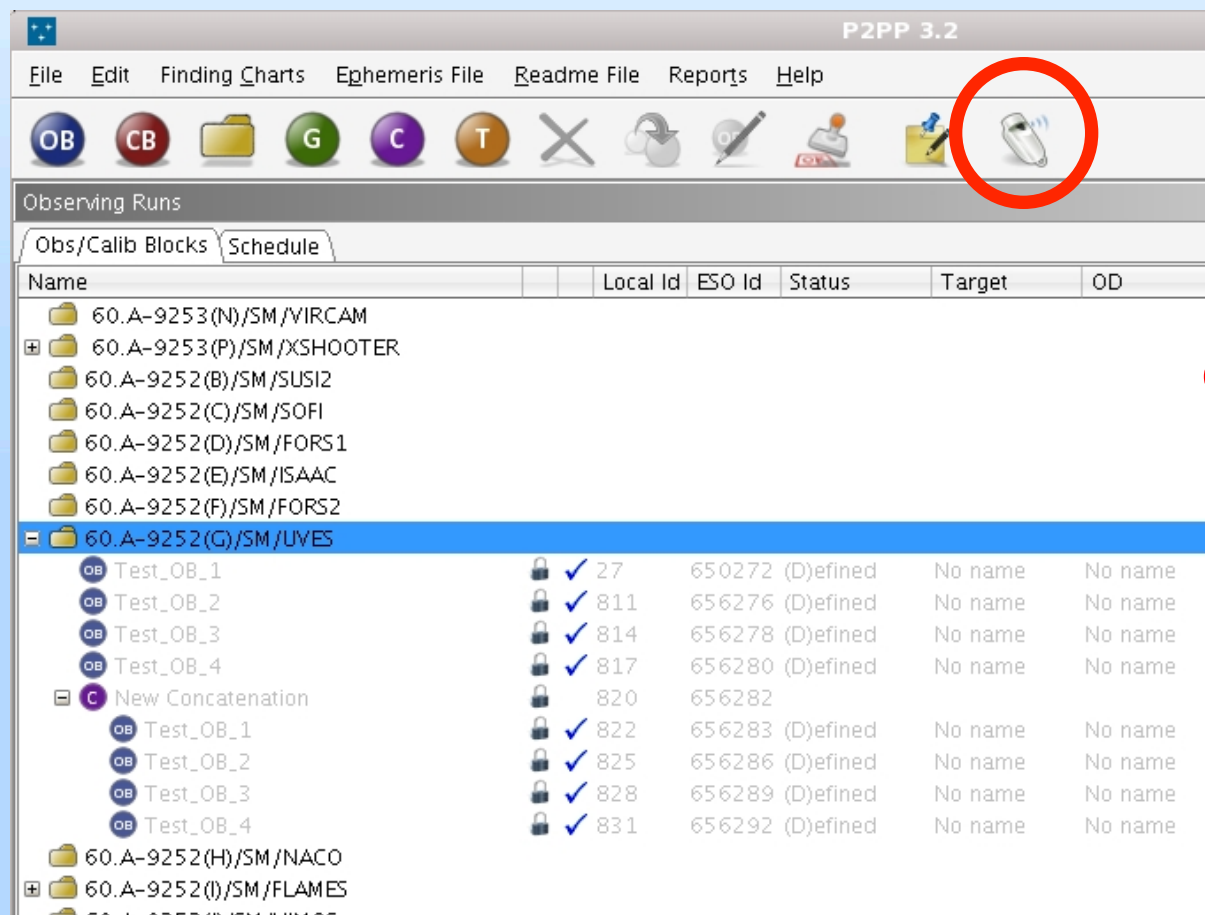
The new P2PP: Final steps



Waiver granted?

- submitting OBs
and Containers
but
breaking the rules!

The new P2PP: Final steps



Last step
Blow the whistle
=
click P2PP-submit



notification is sent
to USD indicating
that Phase2
submission is done

The new P2PP: Where to seek help + Future Updates

P2PP3 User Manual and video tutorial:

[http://www.eso.org/sci/observing/phase2/P2PPSurveys/
P2PP3Documentation.UVES.html](http://www.eso.org/sci/observing/phase2/P2PPSurveys/P2PP3Documentation.UVES.html)

Contact during the Phase2 preparation:

usd-help@eso.org

Future P2PP 3.x release:

Containers of containers (nested containers),
e.g. time-links between groups