



SVOM Science User Support System

[🏠 SUSS HOME](#)[📅 NEWS](#)[❓ OBSERVING WITH SVOM](#)[❓ HELP](#)[ADMIN](#)[🔑 LOG](#)

ToO Tools Quick Guide (V1.1)

HAN Xuhui at CSC (hxh@nao.cas.cn)

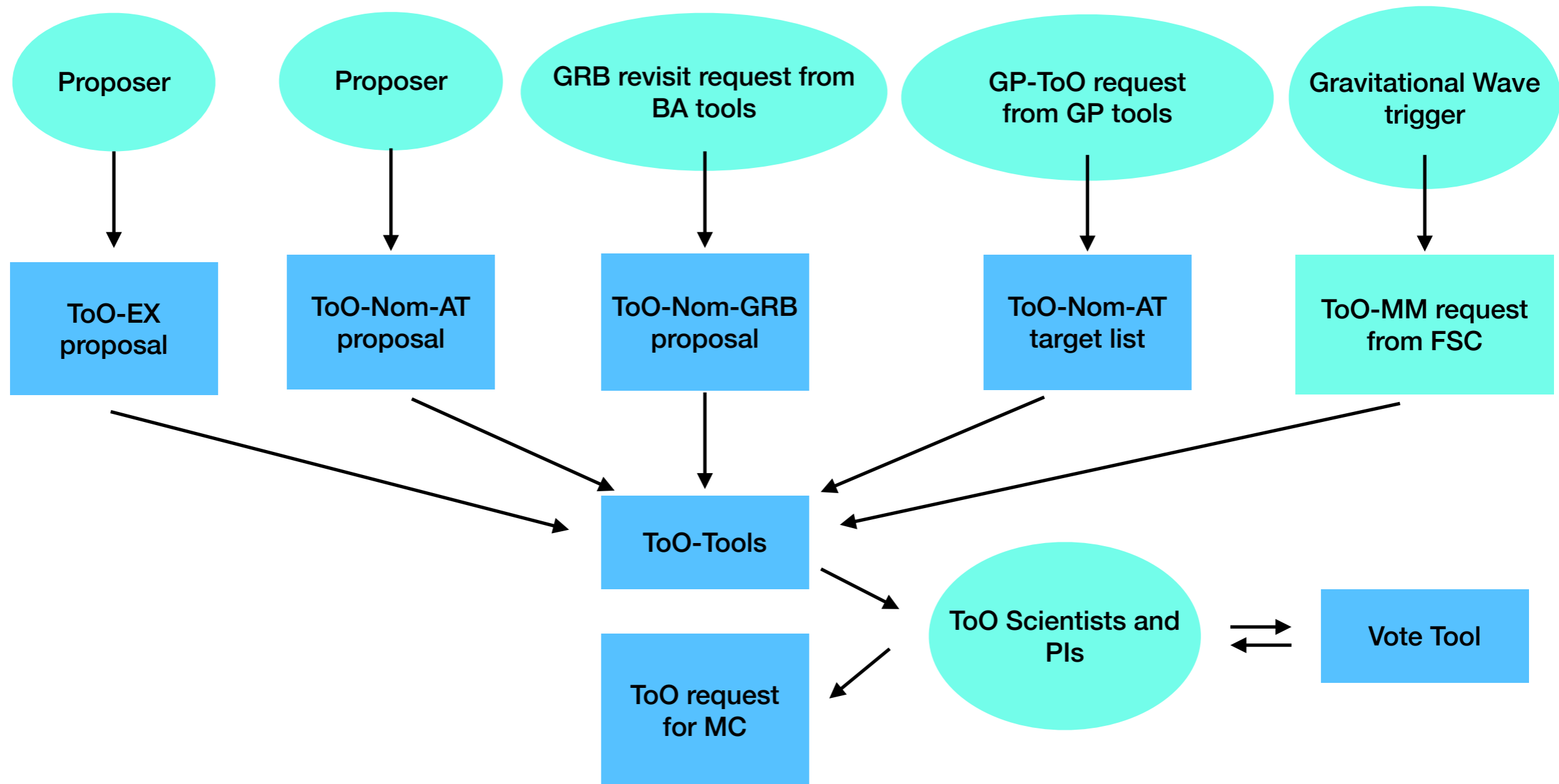
About SVOM

Outside GRB observations, ToO observations, calibration observations, operational manoeuvres and SAA passages, SVOM instruments are available to science observations of astrophysical targets with the maximum efficiency allowed by the constraints of the core program. Preplanned observations of sources (or region of the sky) will constitute the SVOM General Program (GP). The GP will be allocated 60% of useful mission time of the nominal mission. 10% of the GP will be outside the B1 law. The total time devoted to GP will be decreased to 35% of useful mission time of the extended mission. Along the mission lifetime, the time allocated to GP outside of the B1 law will be gradually up to 50 % (TBC) for the extended mission lifetime.

Activities for different types of ToO

ToO type:

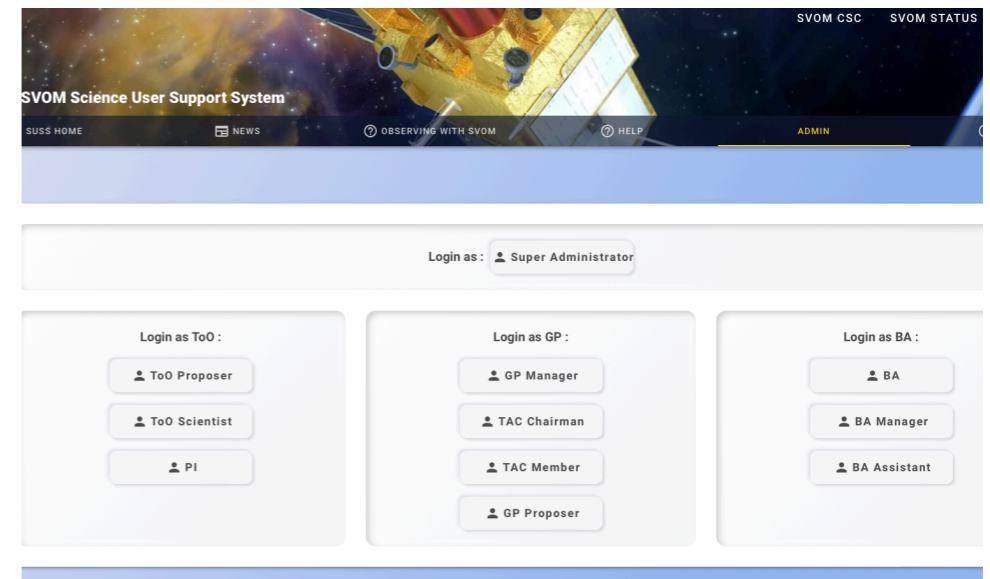
- ToO-EX
- ToO-Nom (ToO-Nom-AT)
- ToO-Nom (GRB revisit)
- ToO-Nom (GP-ToO)
- ToO-MM



Functions of ToO tools

The available functions

- Login
- Role selection
- User management
- Proposal editing and submission
- Proposal approval
- Vote tool
- Target selection
- ToO-MM tiling selection
- ToO request generation and submission



User roles in SUSS

The functions under development

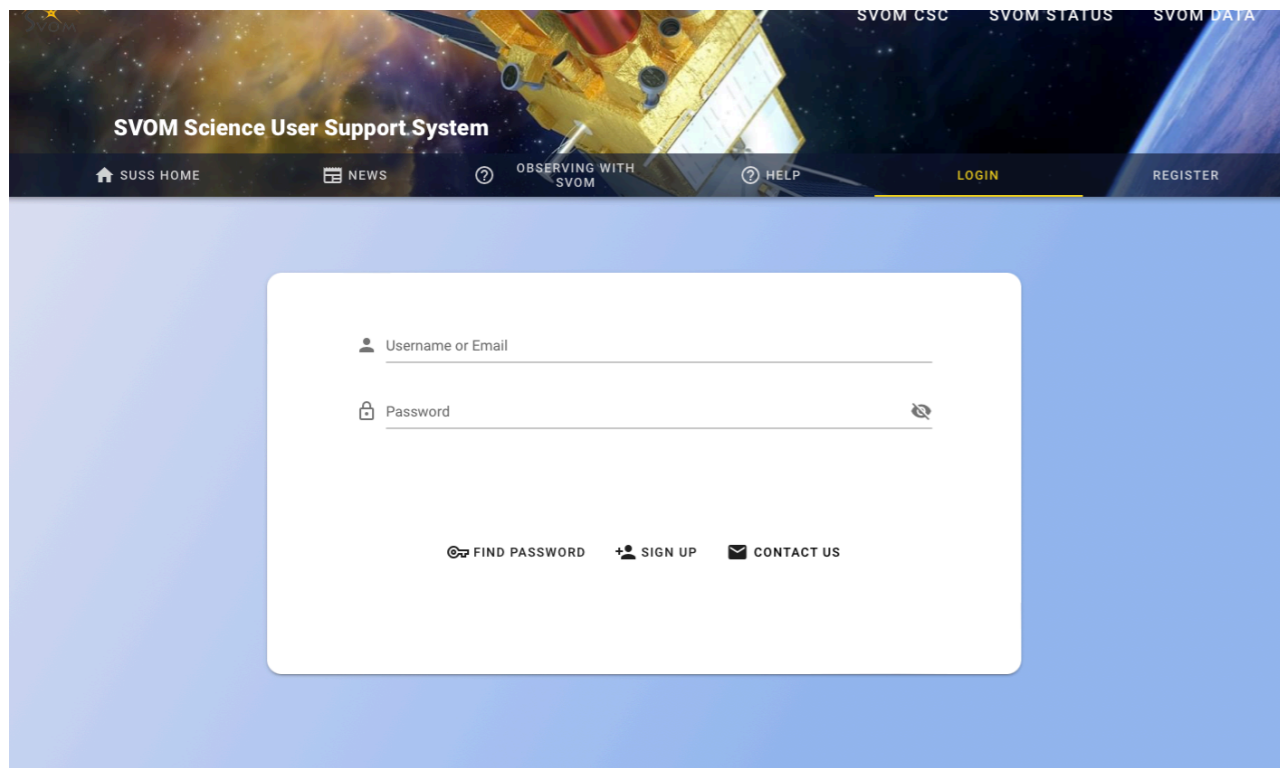
- Filter and configuration management
- Observation and data status displaying

Quick Guide for All Users

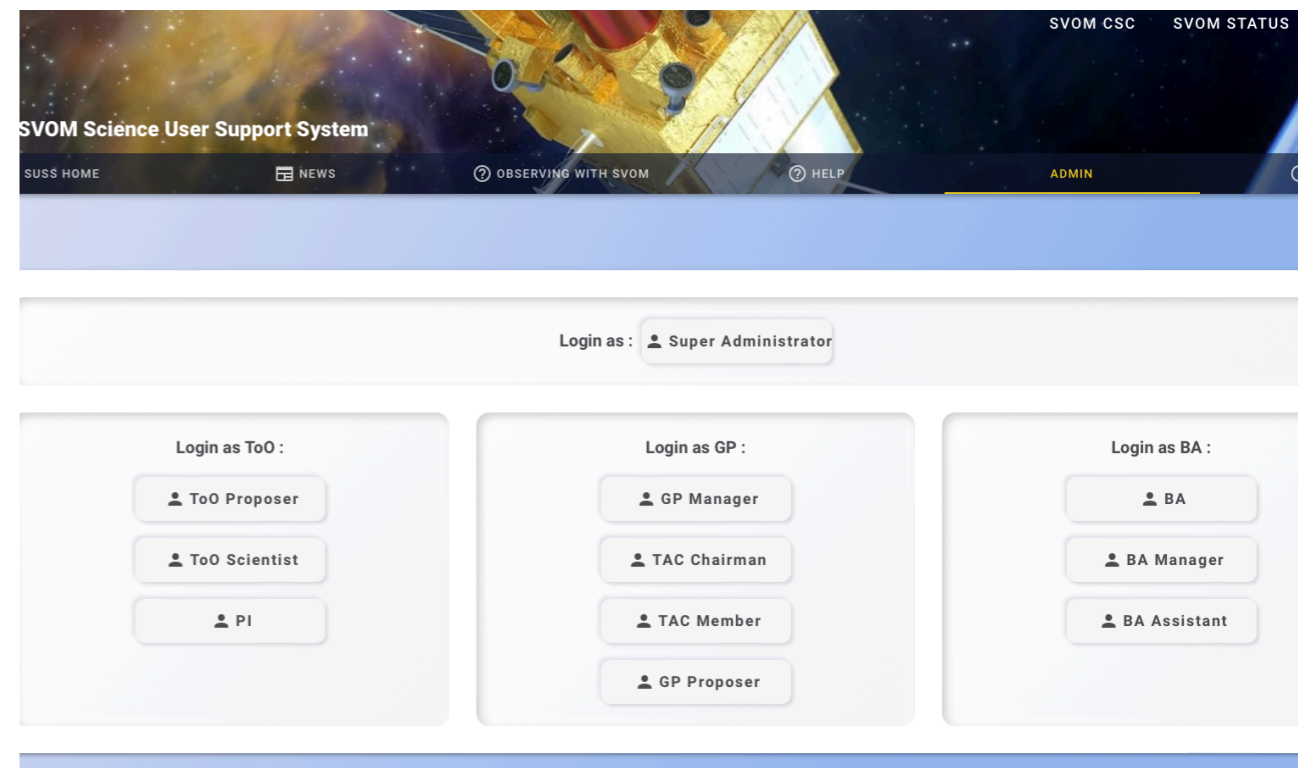
The SVOM Science User Support System (SUSS) integrates SVOM BA, ToO and GP tools. The users need to select the roles after logging in.

Link: <https://svom-gwacn.cn/suss/#/>

- Role: ToO Proposer, Username: too_proposer, Password: 123
- Role: ToO Scientist, Username: too_scientist_cn or too_scientist_fr, Password: 123
- Role: PI, Username: pi_cn or pi_fr, Password: 123



Login



User roles in SUSS

For ToO Proposer

To apply a ToO-EX, ToO-Nom-AT or GRB revisit observation, ToO proposer can use ToO tools to submit a proposal.

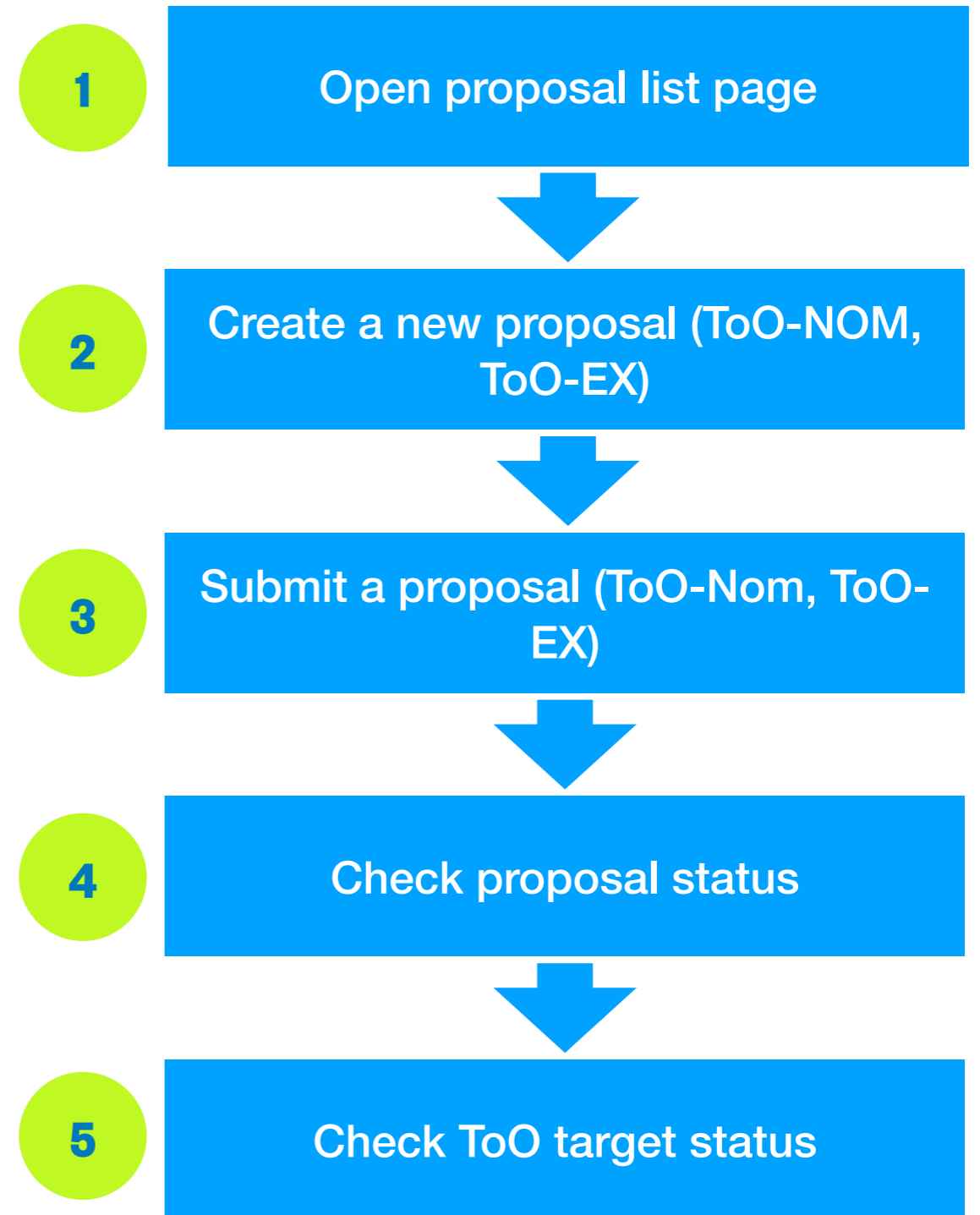
Applying ToO-EX's and ToO-Nom-AT's proposals follow same procedure as shown in the right figure.

To apply a GRB revisit, BA also need to submit a proposal. In the current version, the proposal is created by hand. In the future version, the proposal can be created automatically.

To apply ToO-EX, ToO-Nom-AT

Do five steps:

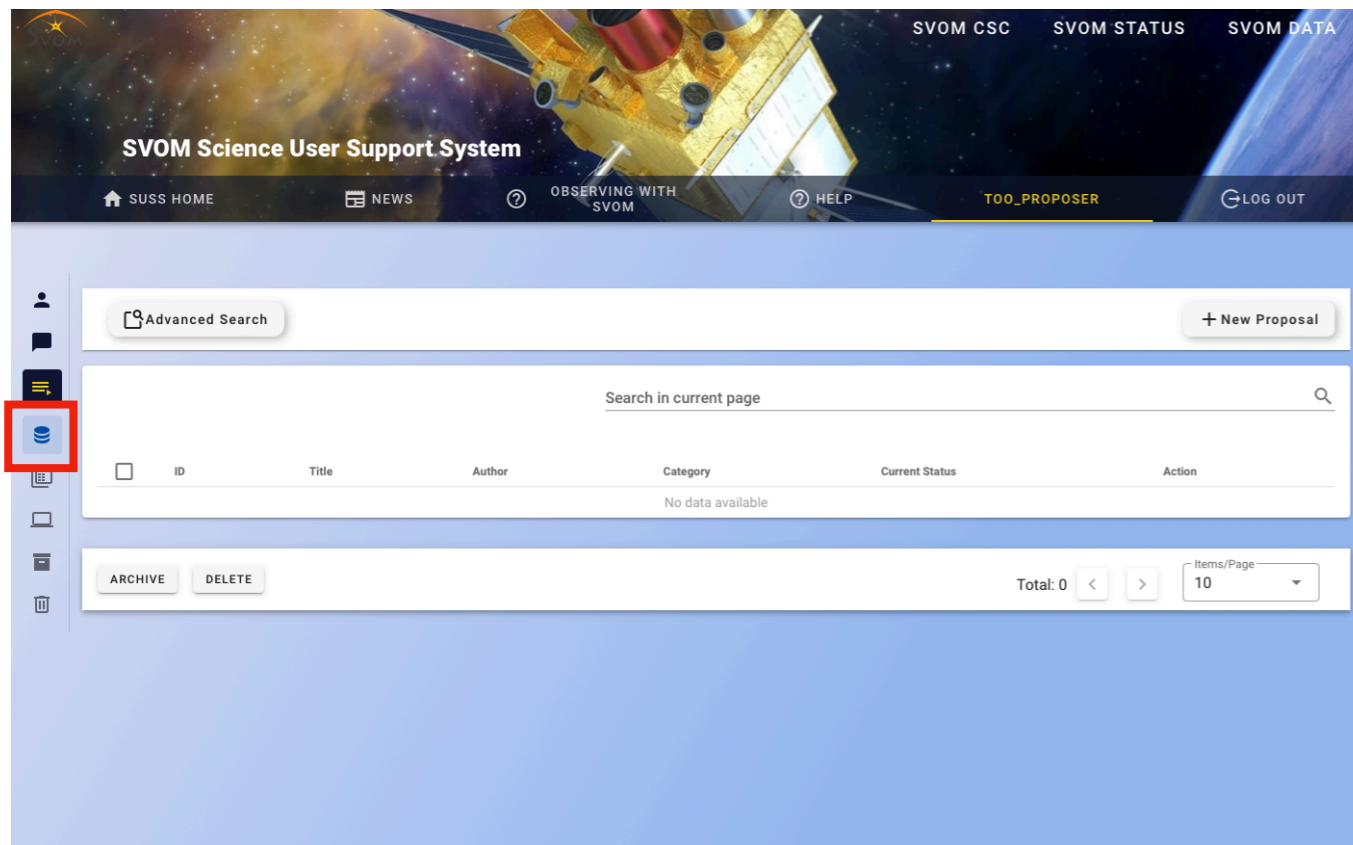
1. open proposal list
2. create new proposal
3. submit proposal
4. check proposal status
5. check target status



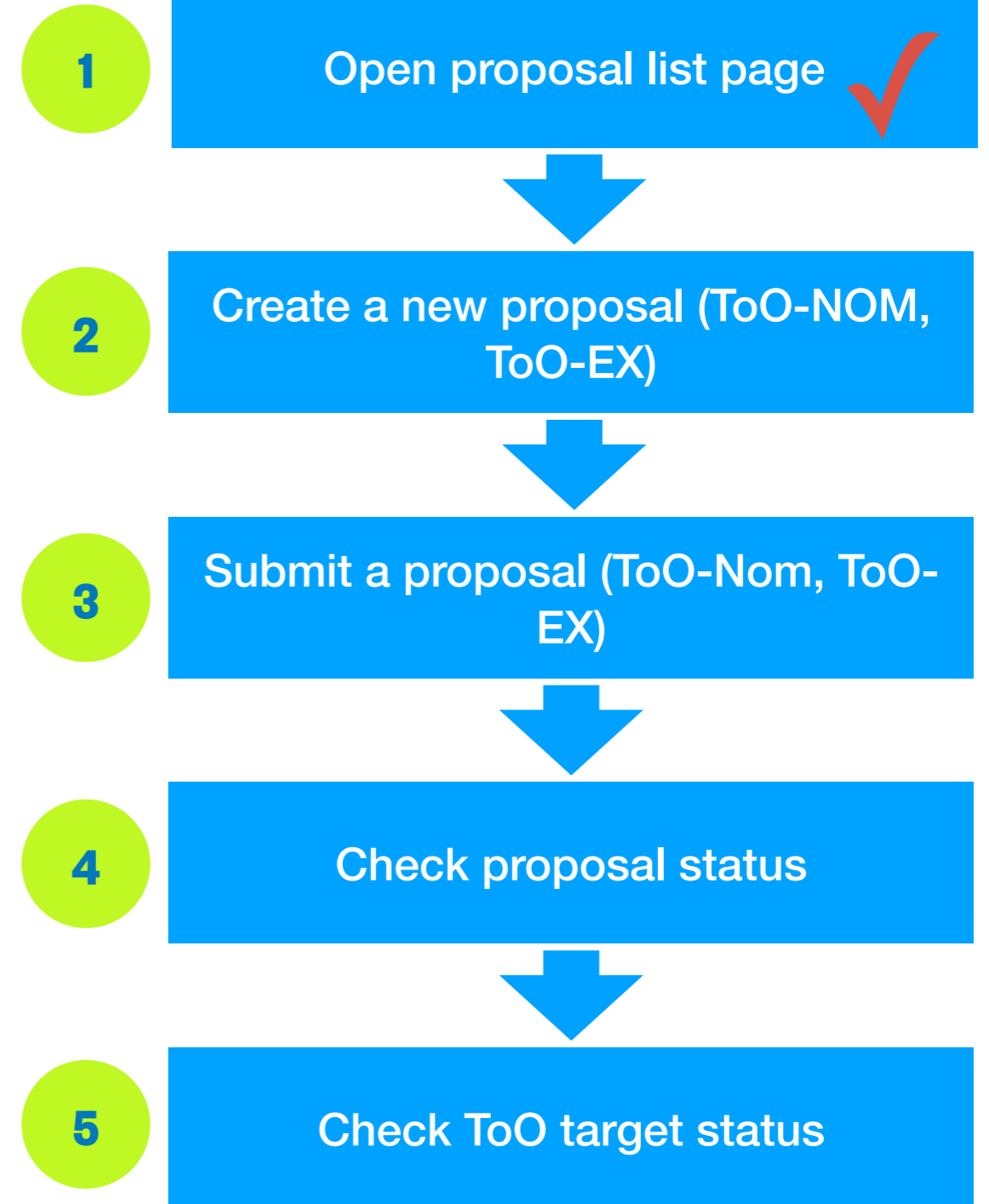
Open proposal list

Click “proposal management” in left panel to open proposal list

Check proposals in proposal list

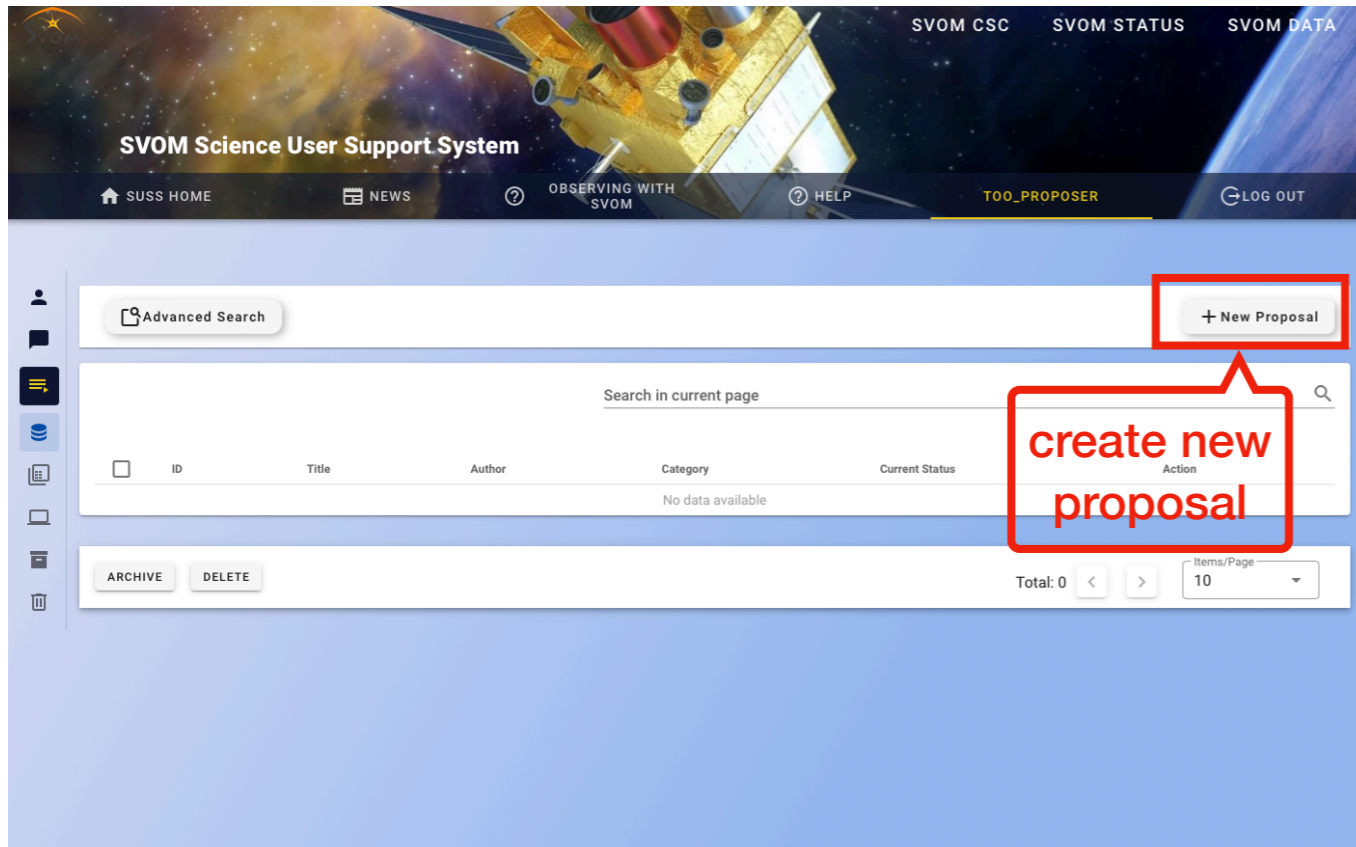


Proposal list in “Proposal Management” page

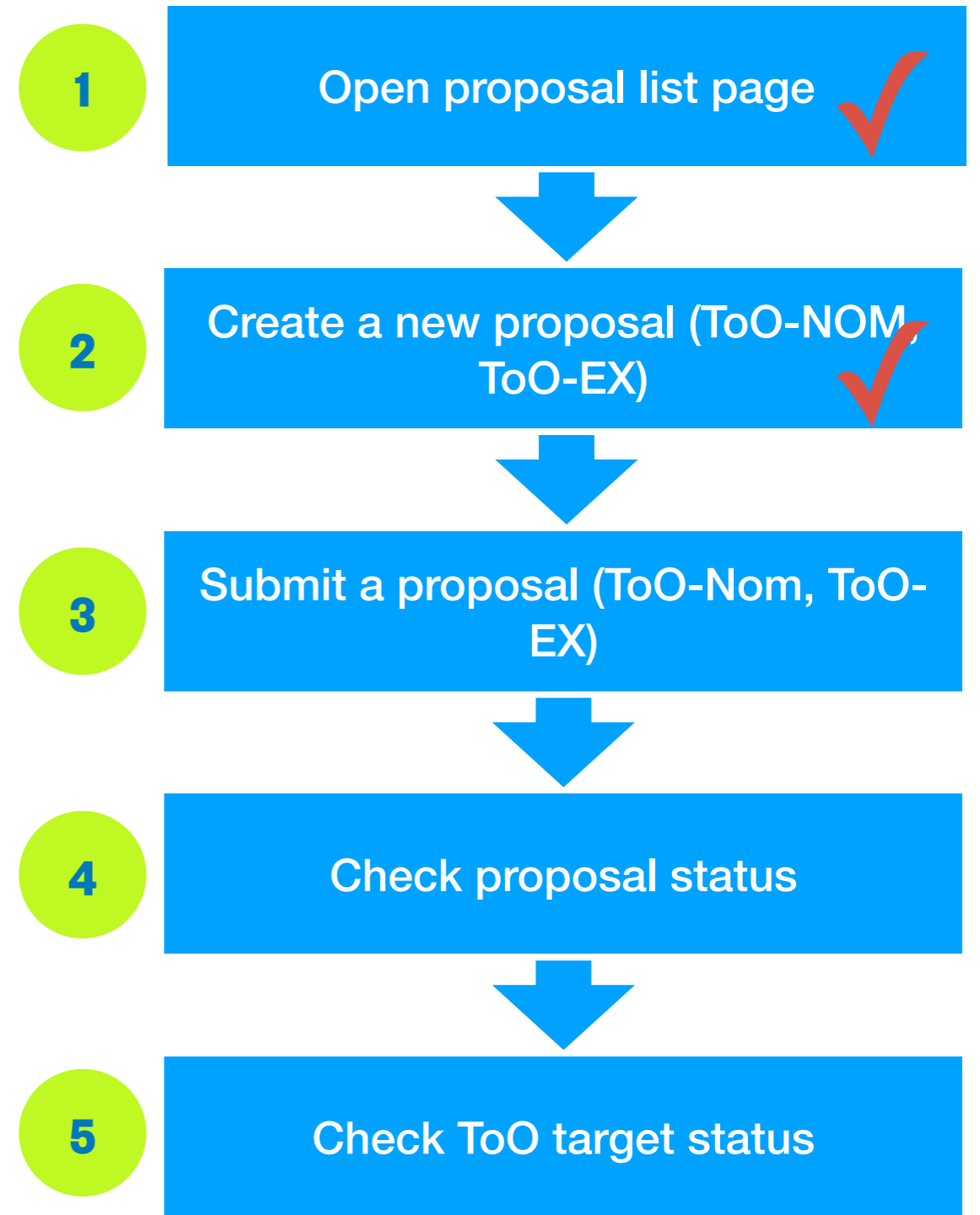


Create proposal

Click “+ New Proposal” to create new proposal



Create new proposal

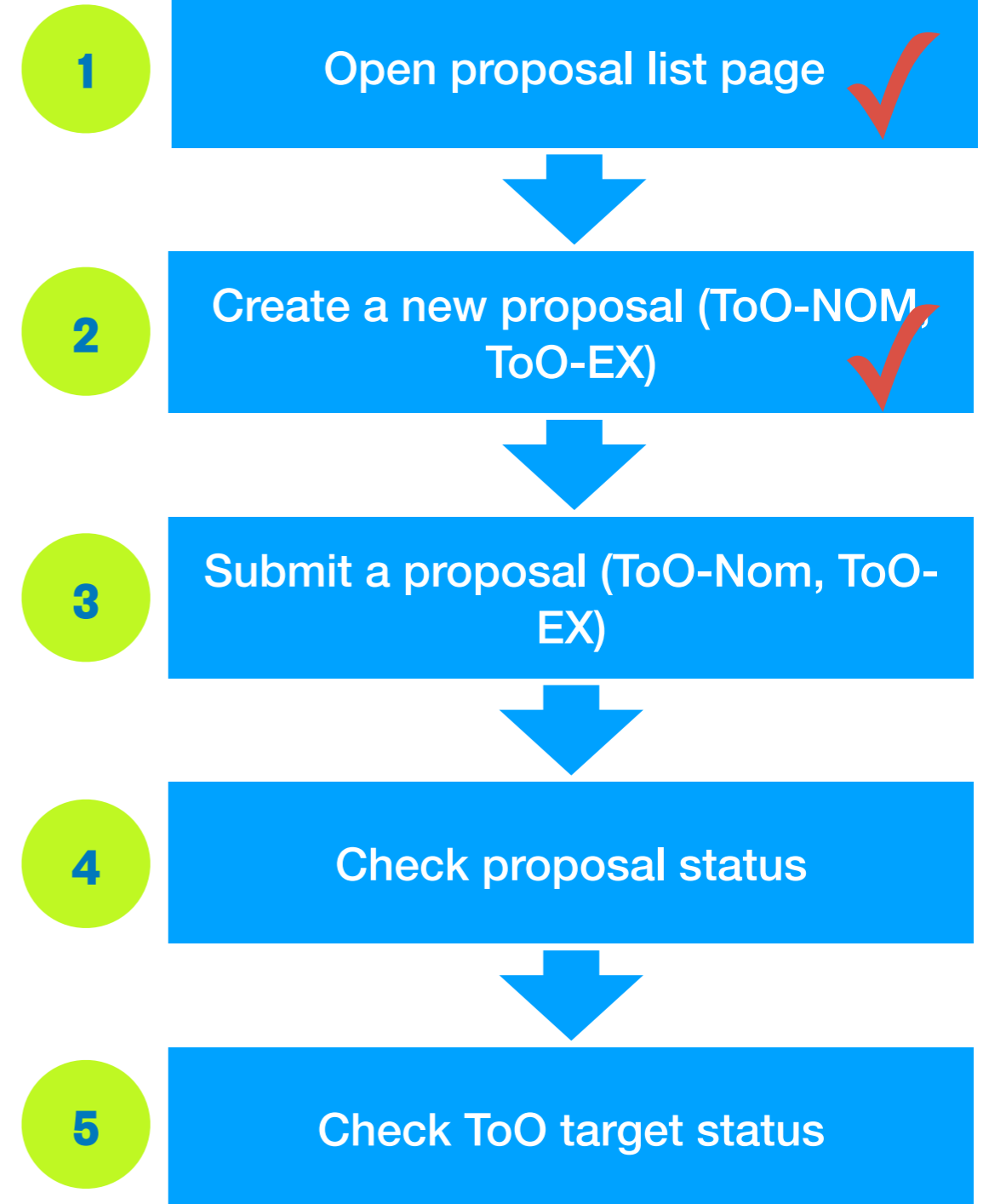


Edit and preview proposal

Edit proposal and preview in left and right sub-pages

The screenshot shows the 'SVOM Science User Support System' interface. At the top, there is a navigation bar with links for 'SUSS HOME', 'NEWS', 'OBSERVING WITH SVOM', 'HELP', 'TOO_PROPOSER', and 'LOG OUT'. Below the navigation bar, the 'Title' field is set to 'NMS_DEMO-1'. The 'Author' information is displayed as 'Author:too_proposer Email:too_proposer@test.com Phone:undefined Affiliation:undefined User Group:null'. There is a 'SELECT USER' button next to the author information. Below this is a table for 'Co-Authors' with columns for 'Name (* real name)', 'User Group', 'Email', 'Phone', and 'Action'. The table is currently empty, showing 'No data available'. Two red callout boxes with the text 'create new proposal' point to the 'Name' and 'User Group' columns. Below the table, there are two buttons: 'PROPOSAL' and 'PREVIEW/SUBMIT', both highlighted with red boxes. Below the buttons, the 'TOO_TYPE' is set to 'ToO-NOM'. At the bottom, there is a 'Proposal Body' section with a rich text editor toolbar and a text area.

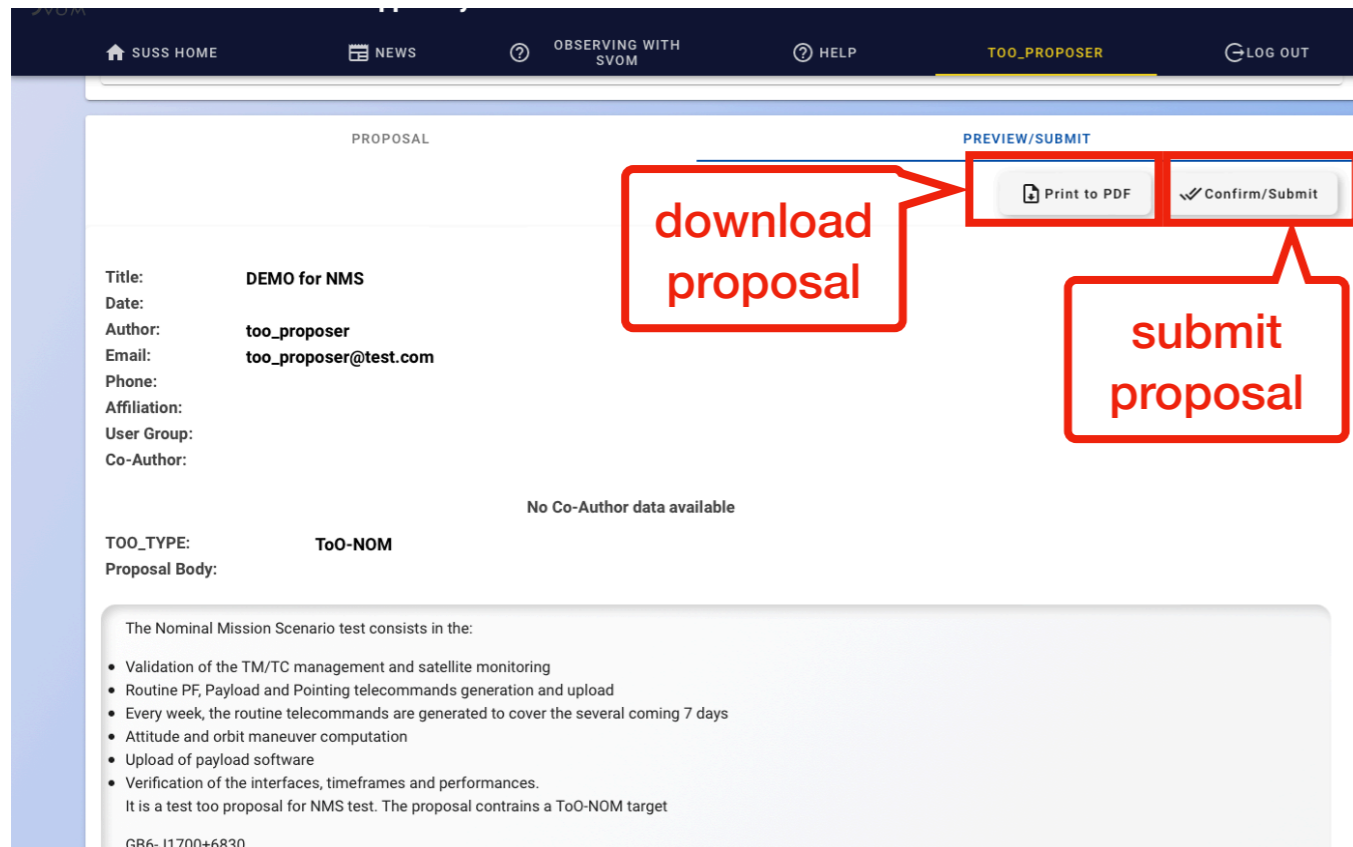
Create proposal



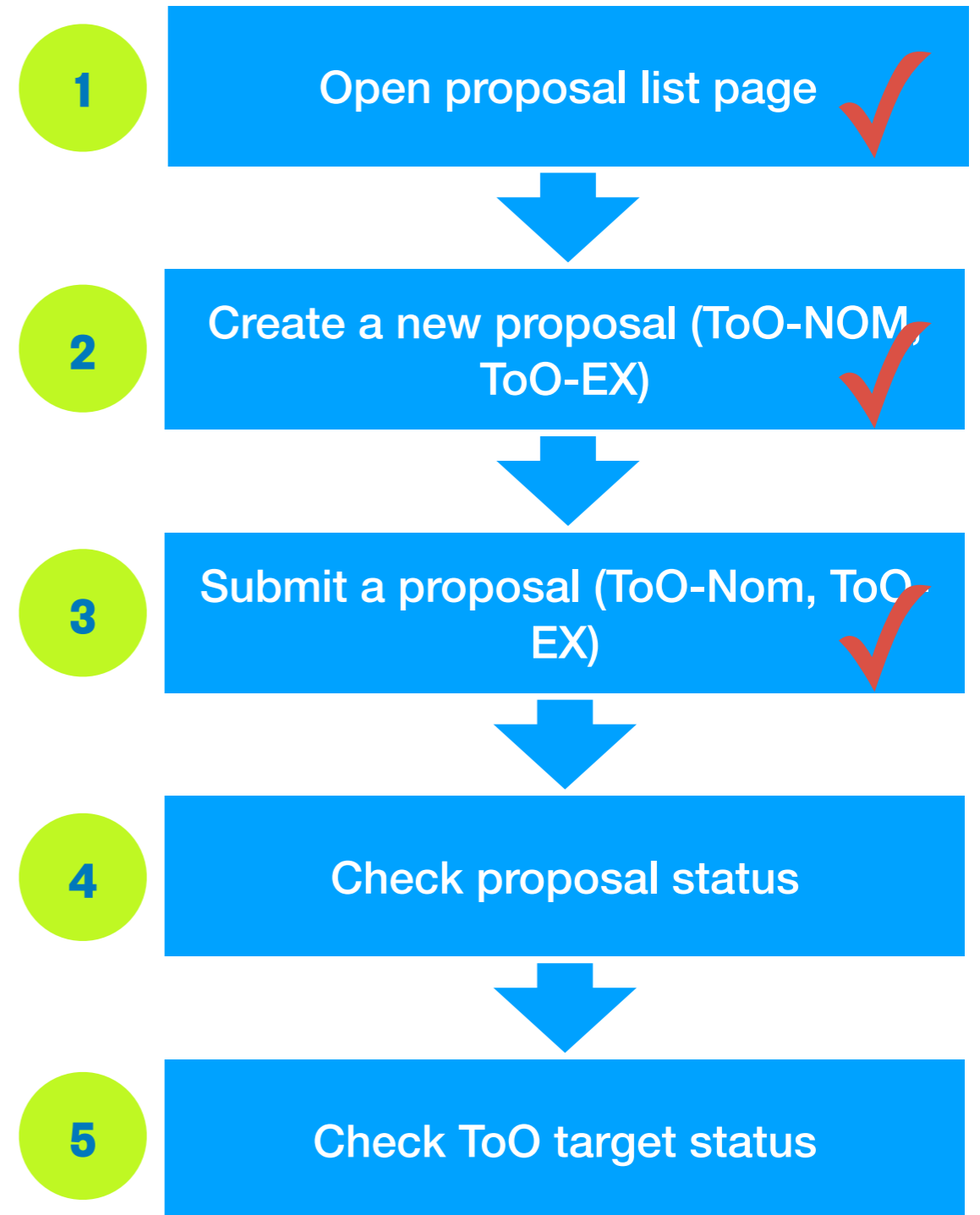
Submit proposal

Download proposal by printing it to PDF.

Confirm and submit proposal



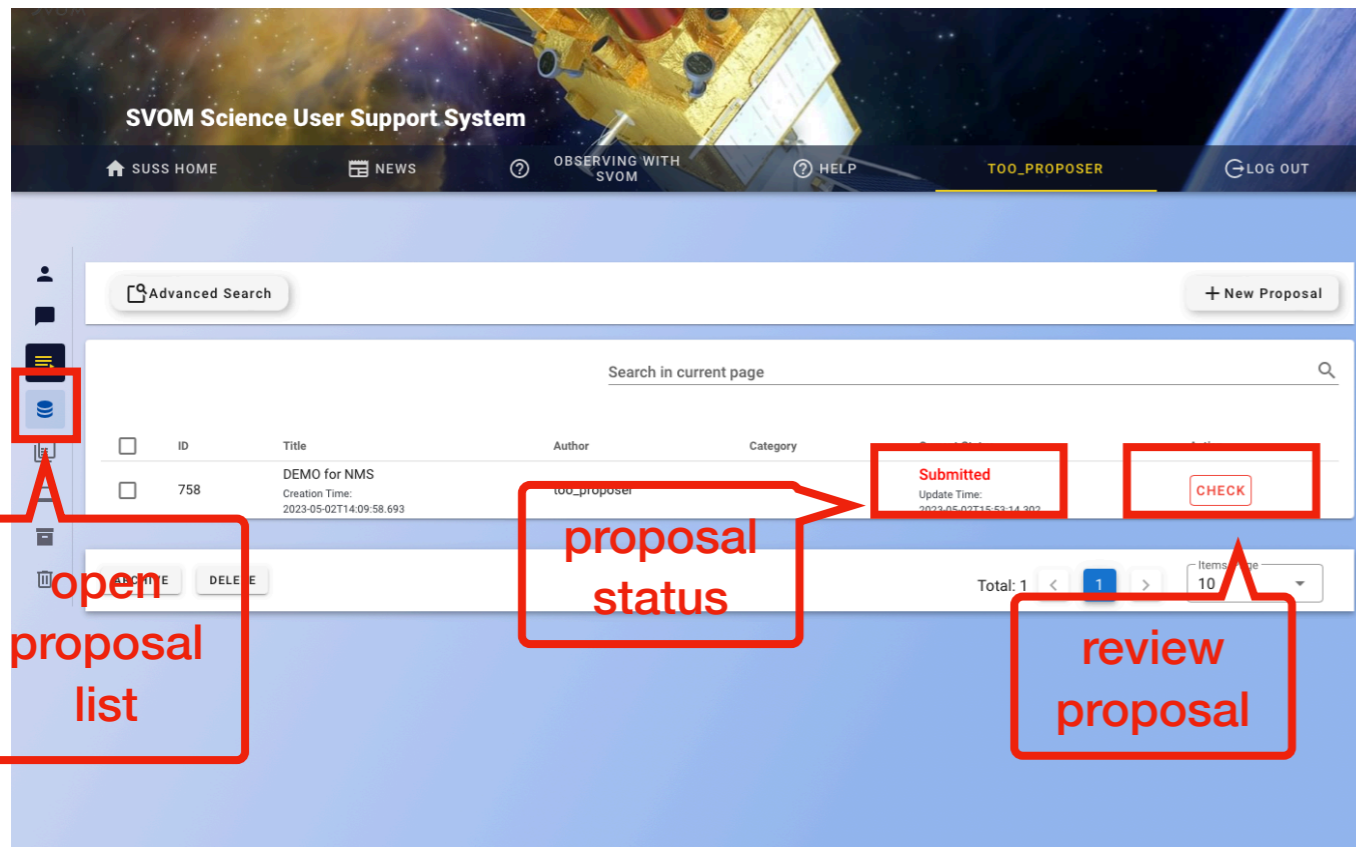
Submit proposal



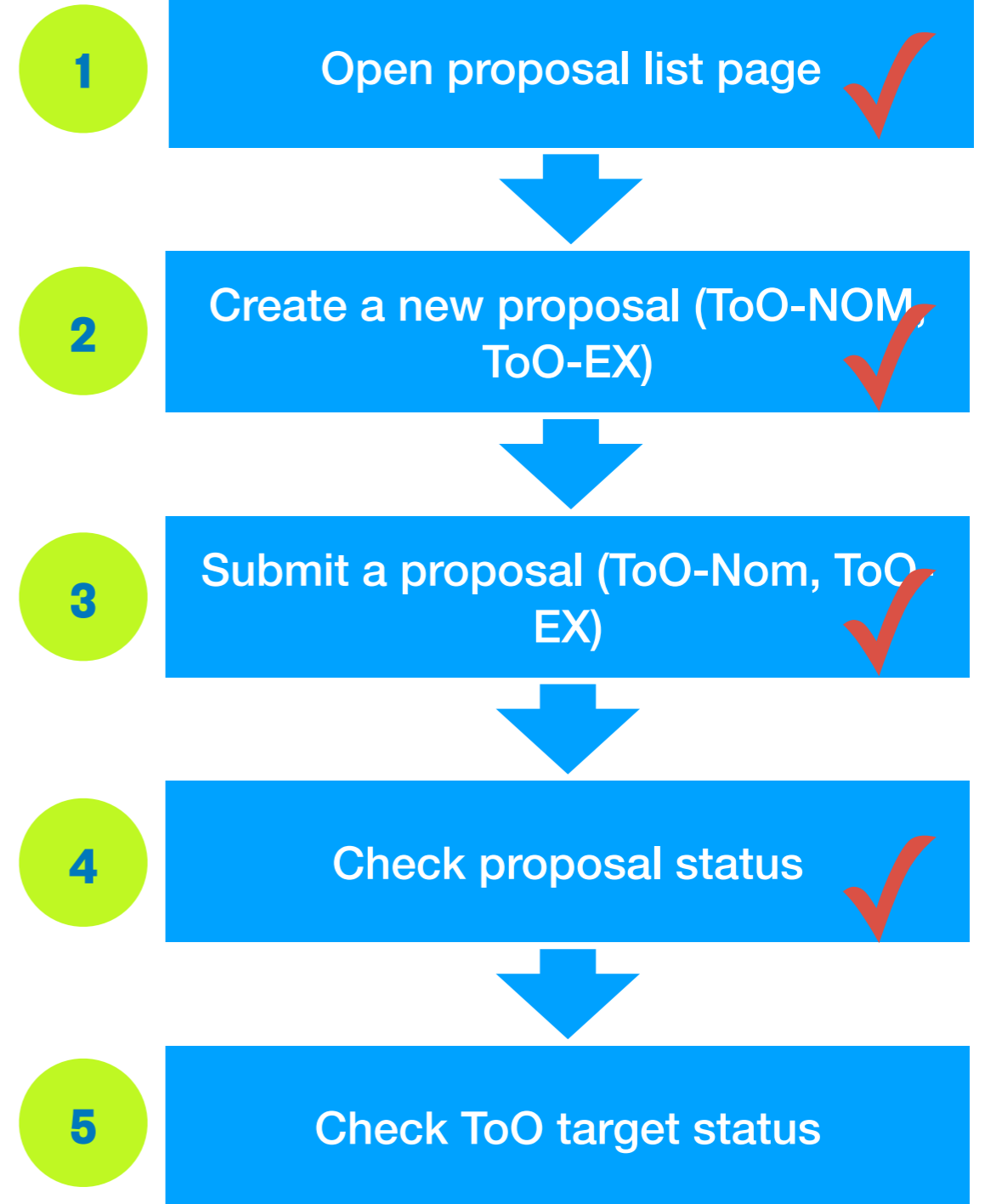
Check proposal status

Proposal status: "Submitted" after submission

Proposal status: "Approved" after proposal approval



Proposal status



Check target status

Check submitted/selected ToO target

Check observation parameters of targets

The screenshot shows the SVOM Science User Support System interface. At the top, there are navigation links for SVOM CSC, SVOM STATUS, and SVOM DATA. Below that, there are links for SUSS HOME, NEWS, OBSERVING WITH SVOM, HELP, TOO_PROPOSER, and LOG OUT. An 'Advanced Search' button is also visible. The main content area displays a 'Target List' with a search bar and a table of targets. A red box highlights the 'show parameters' link in the table header. Another red box highlights the 'open target list' link in the left sidebar. The table contains one target with the following details:

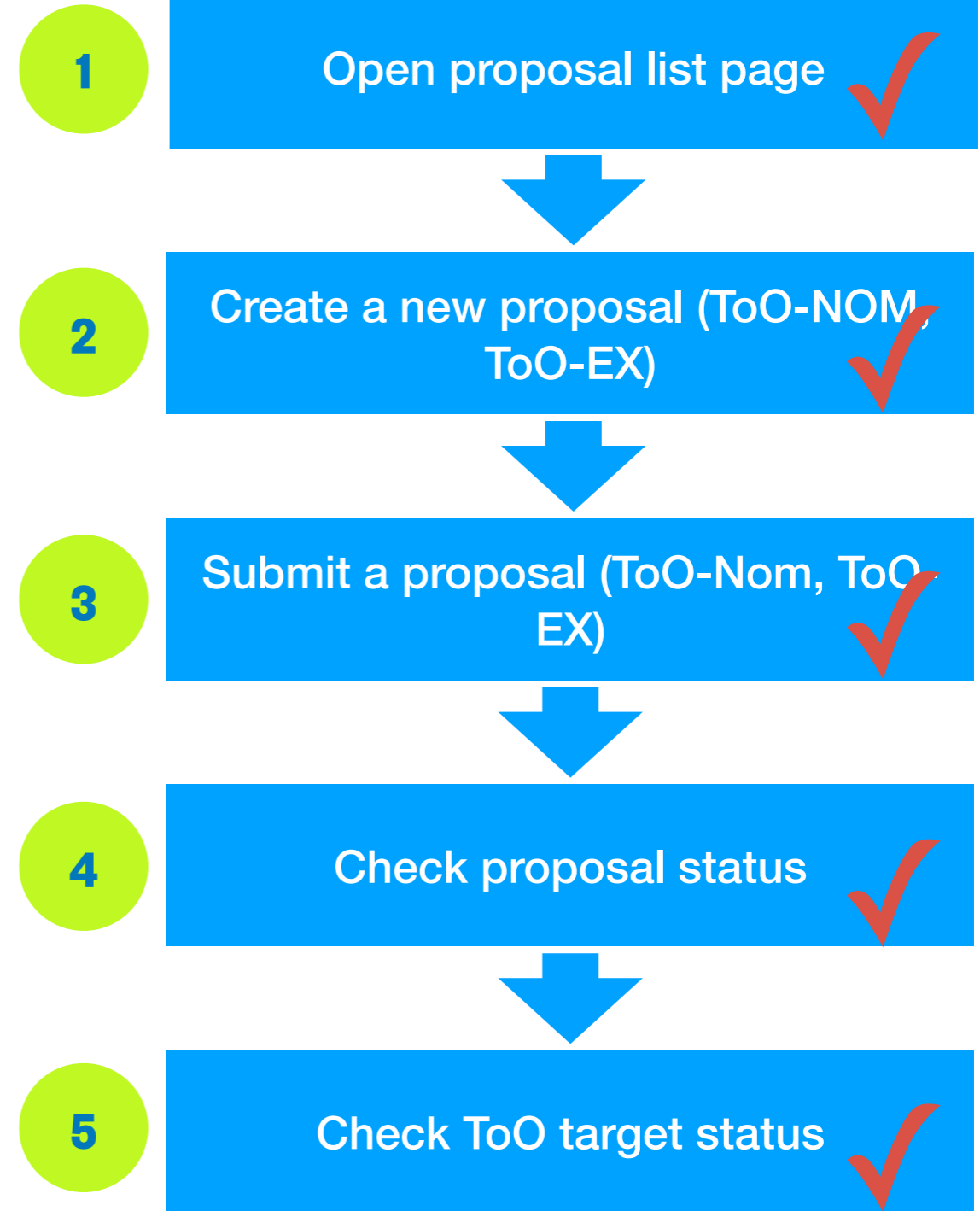
ID	PROPOSAL ID	OBJECT ID	OBS TYPE	RA (J2000)	DEC (J2000)	REQUESTED OBS DURATION	USER GROUP	SCHEDULED	OBSERVED	DATA	
57	DEMO for NMS	GB6-J1700+6830	ToO_575	ToO-NOM-AT	255.03873	68.50193	1	CHN	N	N	N

Below the table, there is a 'Target' section with various parameters and their values:

Parameter	Value	Parameter	Value
ESL_CONF	DEFAULT	GRM_CONF	DEFAULT
EXP_TIME(VT)	5	WINDOW_SIZE(VT)	500
INTERVAL(VT)	1	READ_SPEED(VT)	1
READ_CHANNEL(VT)	0	CLEANING(VT)	0
STABILITY	HIGH	MOON_CHECK	VT
TIME_CONSTRAINTS_START_DATE		TIME_CONSTRAINTS_END_DATE	
MIN_CONT_OBS_DURATION_IN_MINUTES		COMPLETENESS	
TELESCOPE			
SPECIAL_REQUIREMENT			

At the bottom right, there is a pagination control showing 'Total: 1' and 'Items/Page: 10'.

Target status

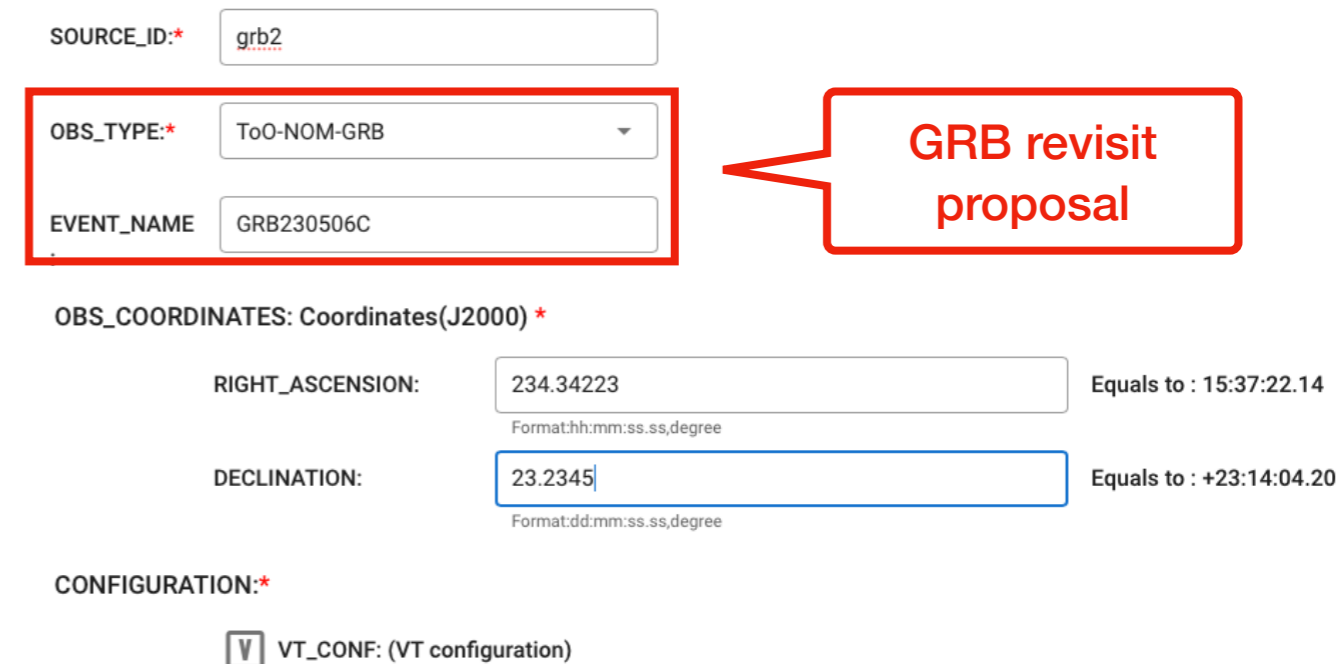


To apply GRB revisit

The steps to apply GRB revisit is similar to applying ToO-EX, ToO-Nom-AT.

First, BA needs to login the ToO tools (Current version) as a ToO proposer.

The GRB revisit should be applied by submitting a ToO-Nom's proposal. The "**OBS-TYPE**" sets "**ToO-NOM-GRB**". In order to link the ToO target with GRB event, the GRB ID (**EVEVT_NAME**) is required in a GRB revisit's proposals.



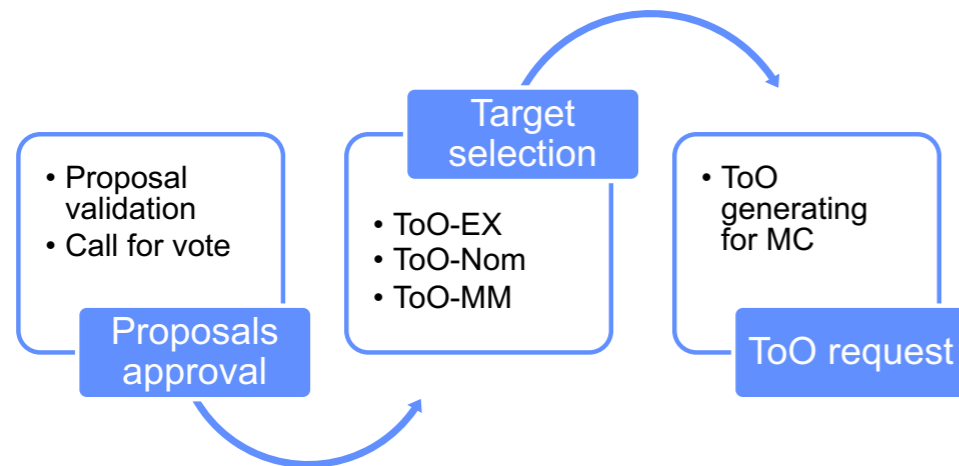
The screenshot shows a web form for submitting a ToO proposal. The fields are as follows:

- SOURCE_ID:** grb2
- OBS_TYPE:** ToO-NOM-GRB (highlighted with a red box)
- EVENT_NAME:** GRB230506C (highlighted with a red box)
- OBS_COORDINATES: Coordinates(J2000) ***
 - RIGHT_ASCENSION:** 234.34223 (Format: hh:mm:ss.ss,degree) Equals to : 15:37:22.14
 - DECLINATION:** 23.2345 (Format: dd:mm:ss.ss,degree) Equals to : +23:14:04.20
- CONFIGURATION: ***
 - VT_CONF: (VT configuration)

A red callout box on the right side of the form contains the text "GRB revisit proposal" and points to the OBS_TYPE and EVENT_NAME fields.

For ToO Scientist

ToO scientists need to review all ToO-EX's, ToO-Nom's proposals, select ToO targets, generate and submit ToO requests to Mission Center. These tasks all can be done in the ToO tools. For some proposals, the decisions need to be made by ToO scientists and PIs together, a vote tool is provide for this task.



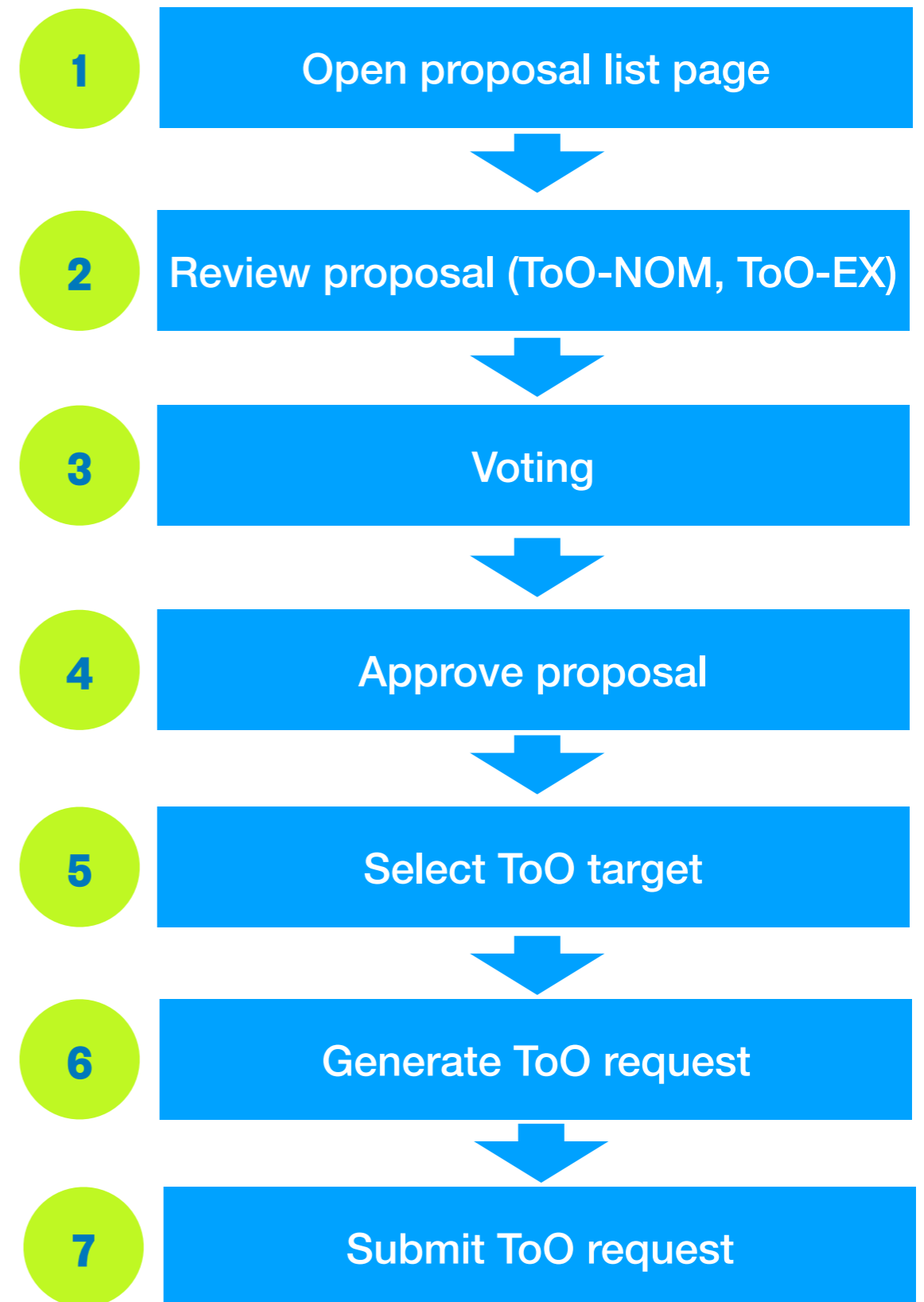
The ToO-MM is different. The GW events and tilings will be connected in the ToO tools. They will be treated as a special type of proposal. The ToO scientist can check it in the “proposal management” page. The tiling selection, ToO request generation and submission can be done in the proposal.

Responsibilities of ToO scientists

To approve ToO-EX, ToO-Nom-AT

Do seven steps:

1. open proposal list
2. review a proposal
3. call for a voting if necessary
4. approve proposal
5. select ToO target
6. generate ToO request
7. submit ToO request



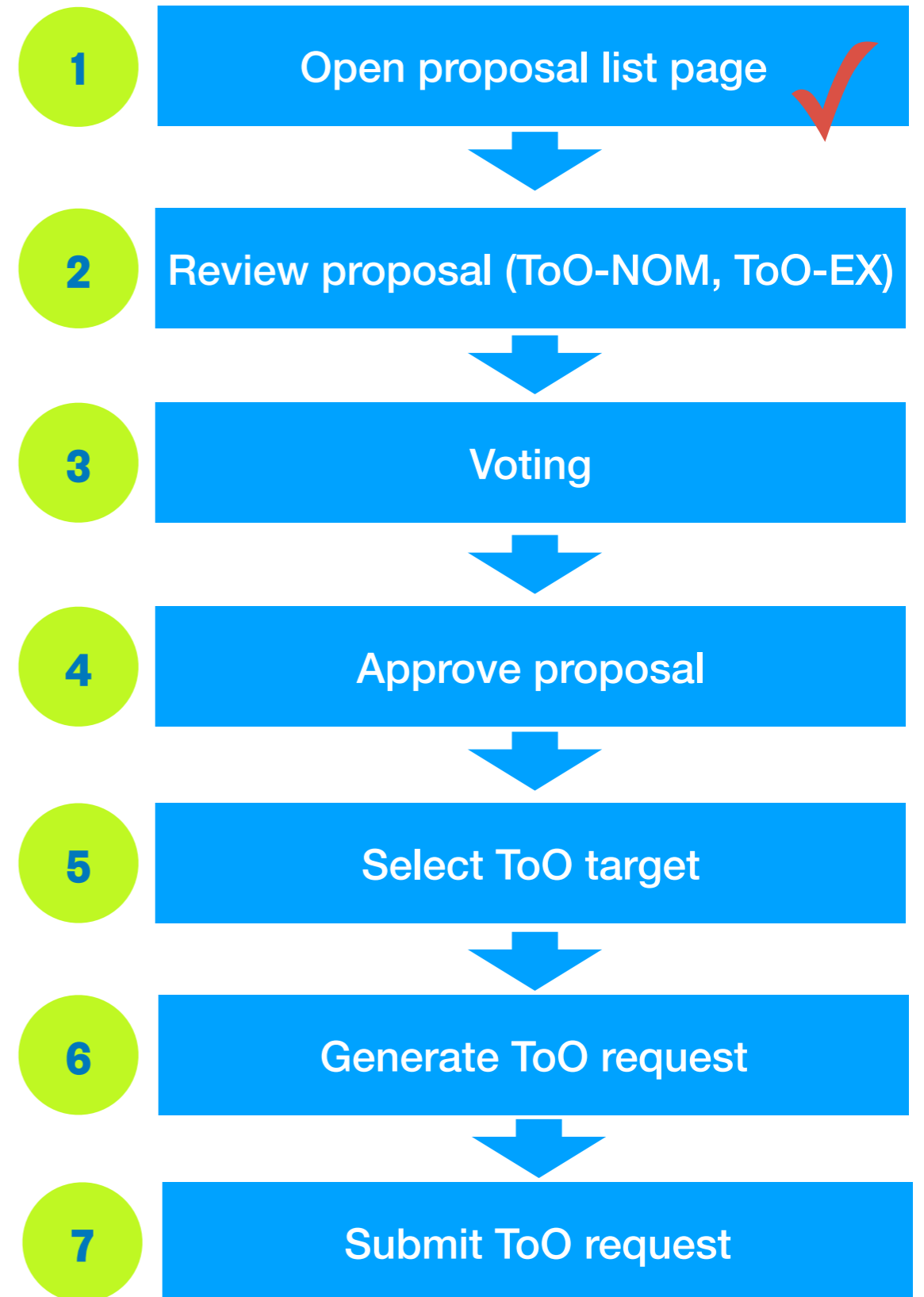
Open proposal list

Click “proposal management” in left panel to open proposal list

Check proposals in proposal list

ID	Title	Author	Category	Current Status	Action
778	ToONomList_W1_Day_3 Creation Time: 2023-05-08T03:33:02.939	too_proposer		Approved Update Time: 2023-05-08T04:26:19.946	CHECK
777	ToONomList_W1_Day_3 Creation Time: 2023-05-08T02:48:17.501	too_proposer		Rejected Update Time: 2023-05-08T02:48:17.501	CHECK
775	test save Creation Time: 2023-05-05T10:29:52.215	admin		Waiting for approval Update Time: 2023-05-08T16:11:33.732	APPROVE
772	ToONomList_W1_Day_2 Creation Time: 2023-05-05T02:45:52.528	too_proposer		Approved Update Time: 2023-05-05T03:01:32.985	CHECK
771	ToONomList_W1_Day_1 Creation Time: 2023-05-05T02:43:20.466	too_proposer		Approved Update Time: 2023-05-05T03:01:12.591	CHECK
770	ToONomList_W0_Day_7 Creation Time: 2023-05-05T01:28:02.276	too_proposer		Approved Update Time: 2023-05-05T03:00:52.139	CHECK
767	ToONomList_W0_Day_6 Creation Time: 2023-05-04T01:01:10.046	too_proposer		Approved Update Time: 2023-05-04T04:47:54.828	CHECK
758	DEMO for NMS Creation Time: 2023-05-02T14:09:58.693	too_proposer		Approved Update Time: 2023-05-03T05:46:25.140	CHECK
705	test_gp_too_230403-2 Creation Time: 2023-04-03T22:20:29.912	admin		Check Update Time: 2023-04-03T22:27:42.979	CHECK

Proposal list in “Proposal Management” page



Review proposal

The status of proposal is “Waiting for approve”

Click “APPROVE” to review the proposal

SVOM Science User Support System

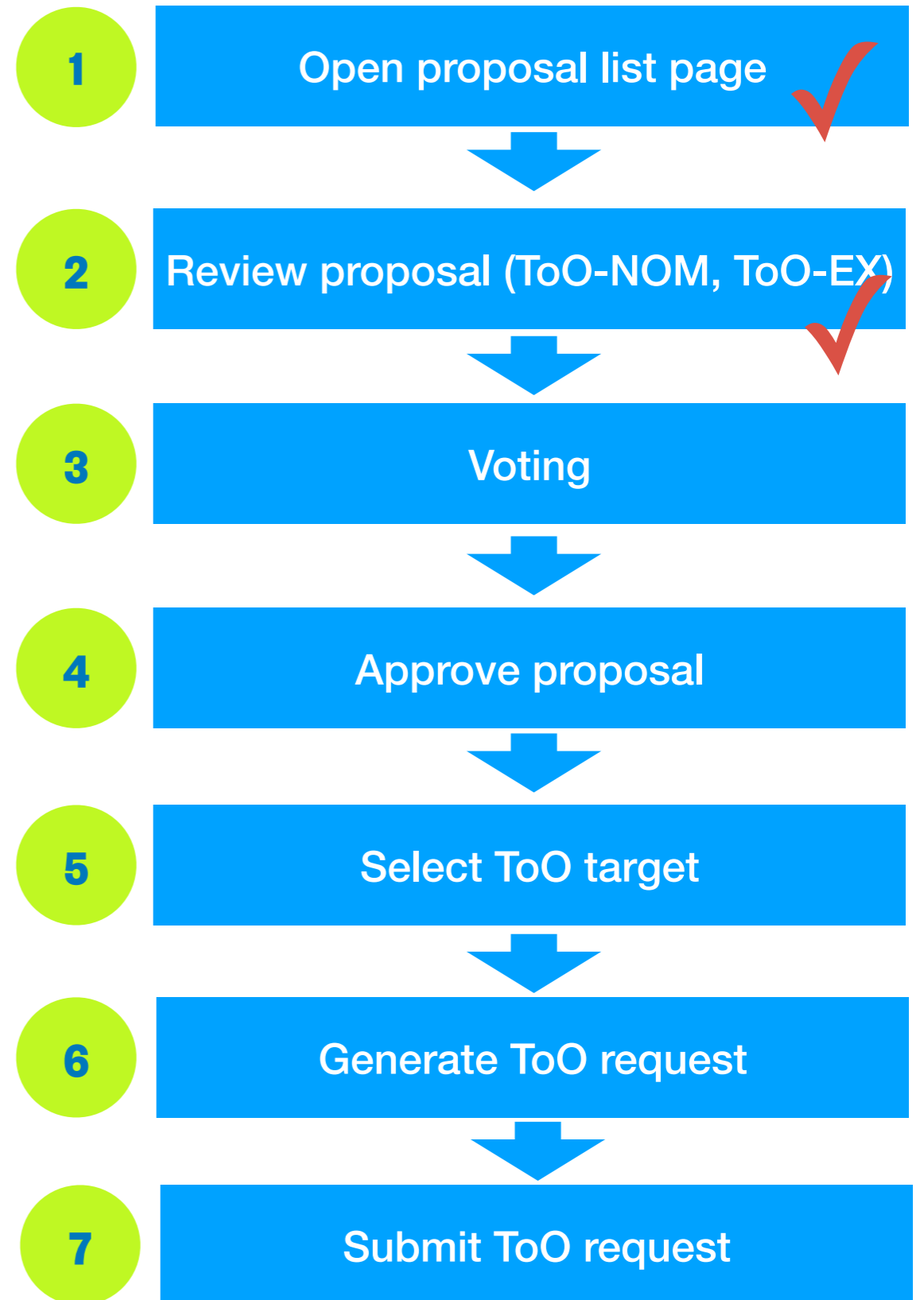
SVOM CSC SVOM STATUS SV

SUSS HOME NEWS OBSERVING WITH SVOM HELP ADMIN

Search in current page

ID	Title	Author	Category	Current Status	Action
778	ToONomList_W1_Day_3 Creation Time: 2023-05-08T03:33:02.939	too_proposer		Approved Update Time: 2023-05-08T04:26:19.946	CHECK
777	ToONomList_W1_Day_3 Creation Time: 2023-05-08T02:48:17.501	too_proposer		Rejected Update Time: 2023-05-08T02:48:17.501	CHECK
775	test save Creation Time: 2023-05-05T10:29:52.215	admin		Waiting for approval Update Time: 2023-05-08T16:11:33.732	APPROVE
772	ToONomList_W1_Day_2 Creation Time: 2023-05-05T02:45:52.528	too_proposer		Approved Update Time: 2023-05-05T03:01:32.985	CHECK
771	ToONomList_W1_Day_1 Creation Time: 2023-05-05T02:43:20.466	too_proposer		Approved Update Time: 2023-05-05T03:01:12.591	CHECK
770	ToONomList_W0_Day_7 Creation Time: 2023-05-05T01:28:02.276	too_proposer		Approved Update Time: 2023-05-05T03:00:52.139	CHECK
767	ToONomList_W0_Day_6 Creation Time: 2023-05-04T01:01:10.046	too_proposer		Approved Update Time: 2023-05-04T04:47:54.828	CHECK
758	DEMO for NMS Creation Time: 2023-05-02T14:09:58.693	too_proposer		Approved Update Time: 2023-05-03T05:46:25.140	CHECK
705	test_gp_too_230403-2 Creation Time: 2023-04-03T22:20:29.912	admin		Check Update Time: 2023-04-03T22:27:42.979	CHECK

Proposal list in “Proposal Management” page



Voting

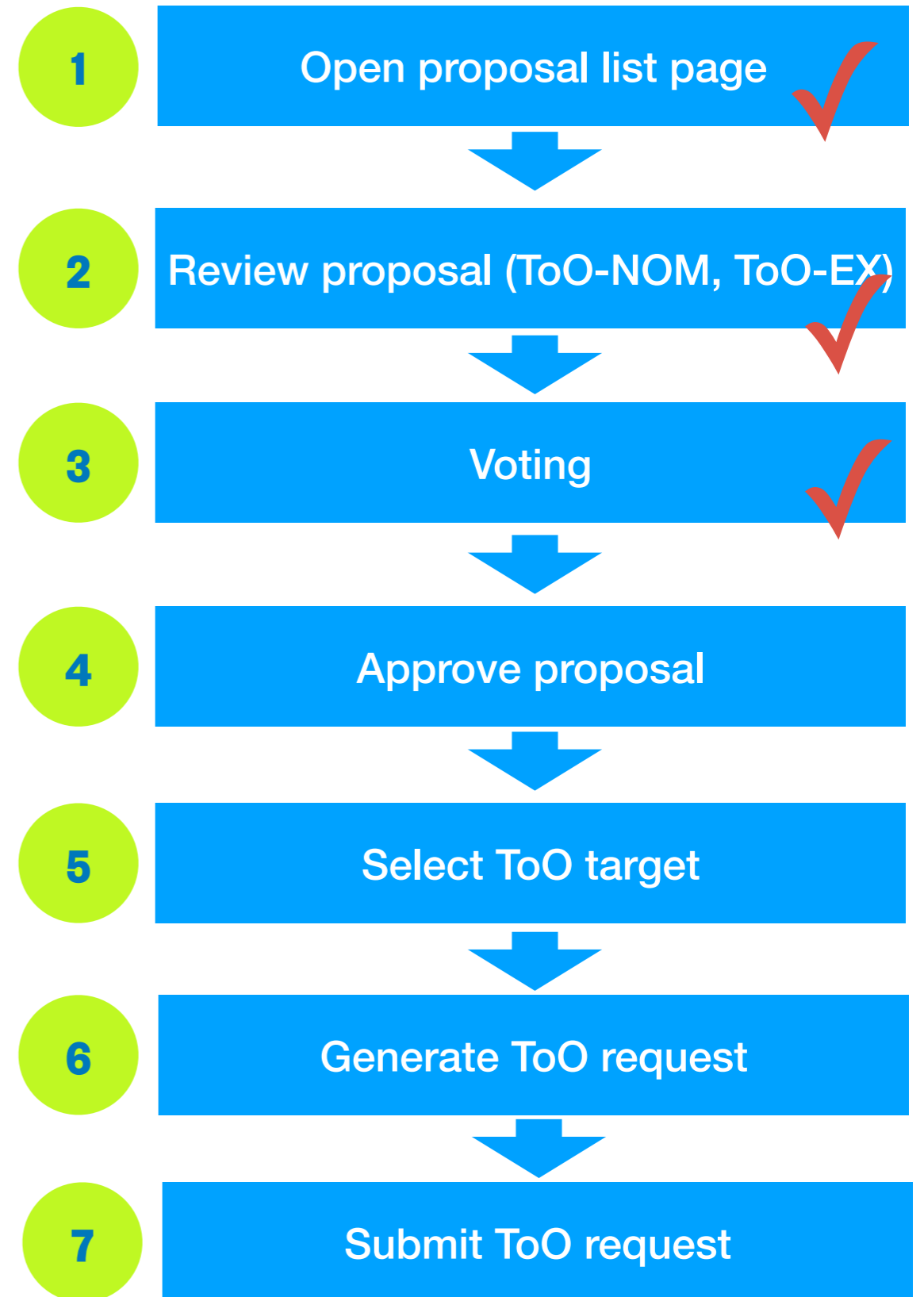
Go to lower page of proposal to find “START VOTING” button

The voting is not mandatory for approval.
ToO scientist can decide call for a voting or not.

The screenshot shows the SVOM web interface. At the top, there is a navigation bar with links for SUSS HOME, NEWS, OBSERVING WITH SVOM, HELP, TOO_SCIENTIST_CN, and LOG OUT. Below the navigation bar, there is a list of bullet points describing the proposal: Attitude and orbit maneuver computation, Upload of payload software, and Verification of the interfaces, timeframes and performances. It is a test too proposal for NMS test. The proposal contrains a ToO-NOM target. The proposal ID is GB6-J1700+6830. Below this is a 'Target List' section with a table of target data. At the bottom, there is an 'Approval' section with a 'START VOTING' button highlighted in red. A red box and arrow point to the 'START VOTING' button with the text 'start voting'. There is also a 'VOTING RESULT' button. At the bottom of the page, there are 'Back' and 'Submit' buttons.

SOURCE ID	OBS TYPE	EVENT NAME	RA (J2000)	Dec (J2000)	EXP TIME (VT)	WINDOW (VT)	INTERVAL (VT)	SPEED (VT)	CHANNEL (VT)	CLEANING (VT)	STA BILITY	MOON CHECK	REQUESTED OBS DURATION
GB6-J1700+6830	ToO-NOM-AT		255.03873	68.50193	5	500	1	1	0	0	HIGH	VT	1

Call for a voting



The vote tool can be access either from proposal review page (the upper figure) or from the vote list page (the lower figure)

Target List: Fold

SOURCE ID	OBS TYPE	EVENT NAME	RA (J2000)	Dec (J2000)	EXP TIME (VT)	WINDOW (VT)	INTERVAL (VT)	SPEED (VT)	CHANNEL (VT)	CLEANING (VT)	STA BILITY	MOON CHECK	REQUESTED OBS DURATION
> GB6-J1700+6830	ToO-NOM-AT		255.03873	68.50193	5	500	1	1	0	0	HIGH	VT	1

Approval

Approve

Comment:

open voting page

Open voting page

SVOM Science User Support System

[SUSS HOME](#)
[NEWS](#)
[OBSERVING WITH SVOM](#)
[HELP](#)
[TOO_SCIENTIST_CN](#)
[LOG OUT](#)

Advanced Search ★ NEW VOTES!

Search in current page

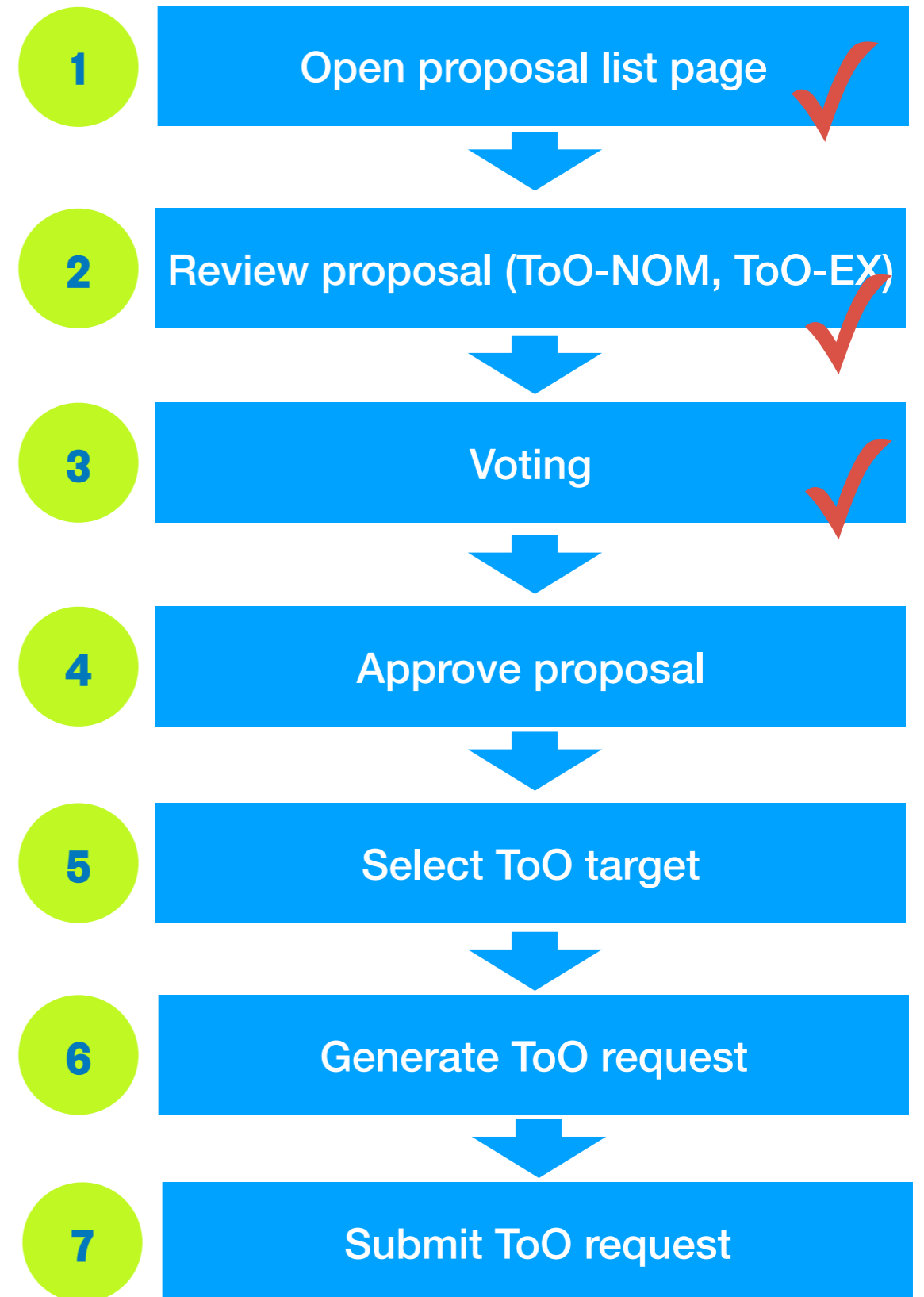
ID	Title	Author	Category	Current Status	Action
<input type="checkbox"/> 758	DEMO for NMS Creation Time: 2023-05-02T14:09:58.693	too_proposer		Approved Update Time: 2023-05-03T16:29:10.000	<input type="button" value="CHECK"/>
<input type="checkbox"/> 705	test_gp_too_230403-2 Creation Time: 2023-04-03T22:20:29.912	admin		Check Update Time: 2023-04-03T22:27:42.979	<input type="button" value="CHECK"/>
<input type="checkbox"/> 694	S200114f Creation Time: 2023-03-30T18:41:22.930			Tiling selected Update Time: 2023-04-17T15:56:28.006	<input type="button" value="CHECK"/>

ARCHIVE DELETE

Total: 1 1 Items/Page 10

check voting list

Access voting list from the "proposal management page"



Cast a vote. Three options are given: “Vote”, “Against” and “Abstain”

The screenshot shows the 'Vote' tool interface. At the top, there is a navigation bar with links for 'SUSS HOME', 'NEWS', 'OBSERVING WITH SVOM', 'HELP', 'TOO_SCIENTIST_CN', and 'LOG OUT'. Below the navigation bar, there is a text area with the following content:

- Verification of the interfaces, timeframes and performances.
- It is a test too proposal for NMS test. The proposal contrains a ToO-NOM target
- GB6-J1700+6830

Below the text area is a 'Target List' section with a 'Fold' toggle. The table below contains the following data:

SOURCE ID	OBS TYPE	EVENT NAME	RA (J2000)	Dec (J2000)	EXP TIME (VT)	WINDOW (VT)	INTERVAL (VT)	SPEED (VT)	CHANNEL (VT)	CLEANING (VT)	STA BILITY	MOON CHECK	REQUESTED OBS DURATION
GB6-J1700+6830	ToO-NOM-AT		255.03873	68.50193	5	500	1	1	0	0	HIGH	VT	1

Below the table is a 'Vote' section with the following information:

Vote: too_scientist_cn Date: 2023-05-03T09:57:03Z

Creator:

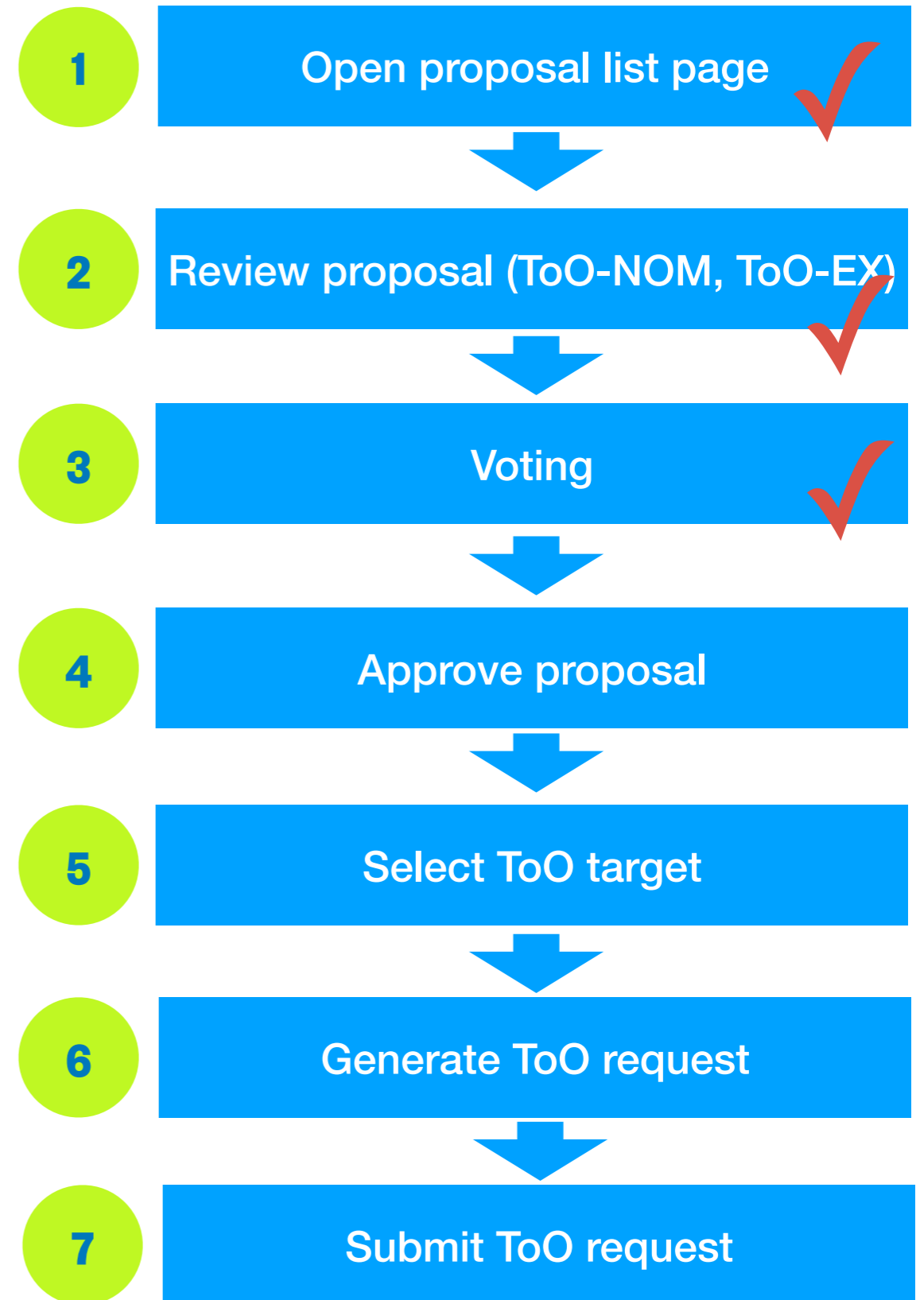
Vote Against Abstain

Comment

comment

At the bottom of the interface are 'Back' and 'Submit' buttons. A red box highlights the voting options, and a red arrow points to them with the text 'cast a vote'.

Vote tool interface



The voting result can be found either from proposal review page (the upper figure) or from the vote list page (the lower figure)

Target List: Fold

SOURCE ID	OBS TYPE	EVENT NAME	RA (J2000)	Dec (J2000)	EXP TIME (VT)	WINDOW (VT)	INTERVAL (VT)	SPEED (VT)	CHANNEL (VT)	CLEANING (VT)	STABILITY	MOON CHECK	REQUESTED OBS DURATION
> GB6-J1700+6830	ToO-NOM-AT		255.03873	68.50193	5	500	1	1	0	0	HIGH	VT	1

Approval

Approve

Comment:

voting result

Open voting page

SVOM CSC SVOM STATUS SVOM DATA

SVOM Science User Support System

SVUSS HOME NEWS OBSERVING WITH SVOM HELP TOO_SCIENTIST_CN LOG OUT

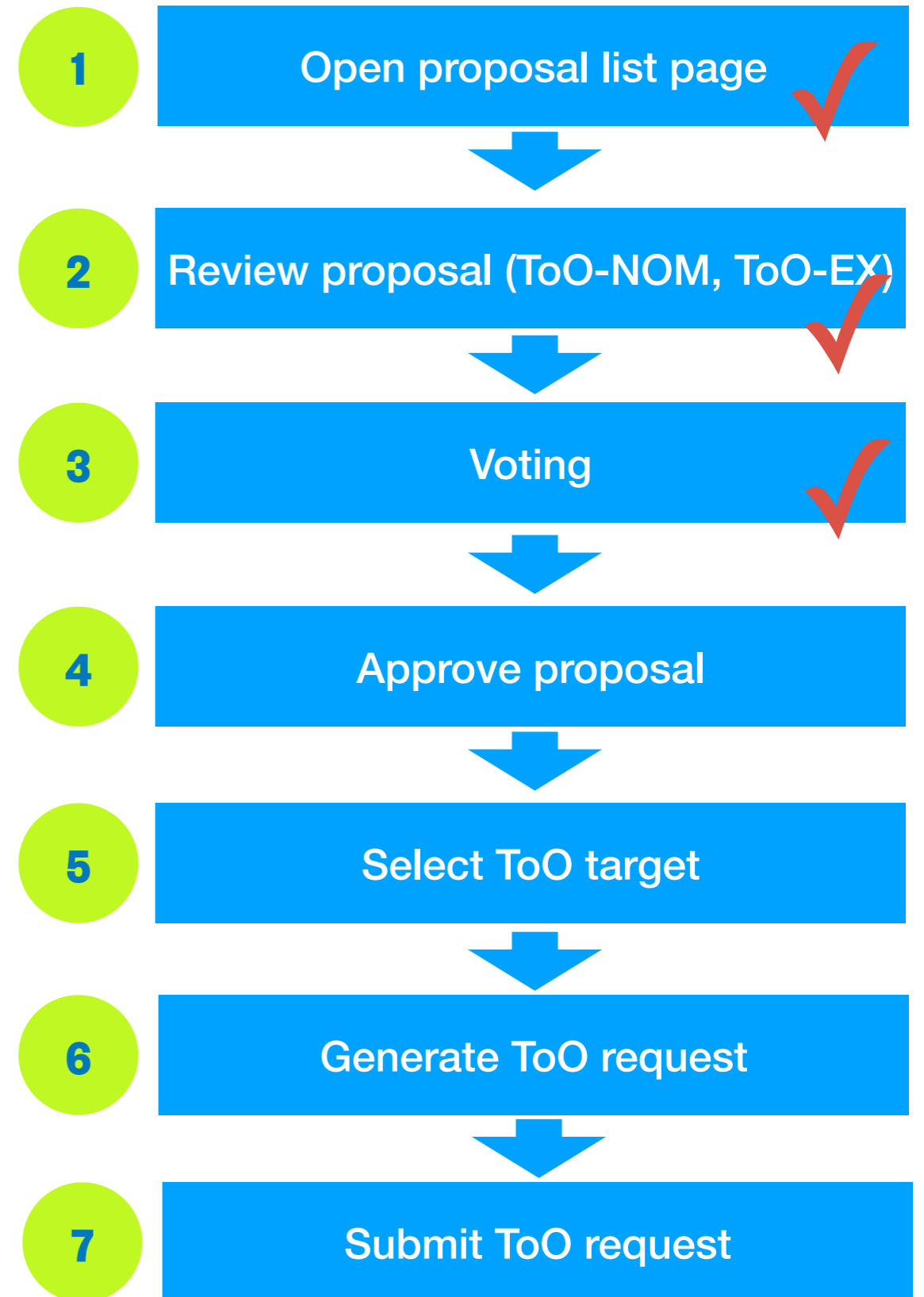
Vote List

ID	Title	Author	Category	Current Status	Action
34	DEMO for NMS	too_proposer	ToO-NOM-AT	Vote Update Time: 2023-05-03T04:37:54Z	<input type="button" value="CHECK"/>

Total: 1

check voting result

Voting result

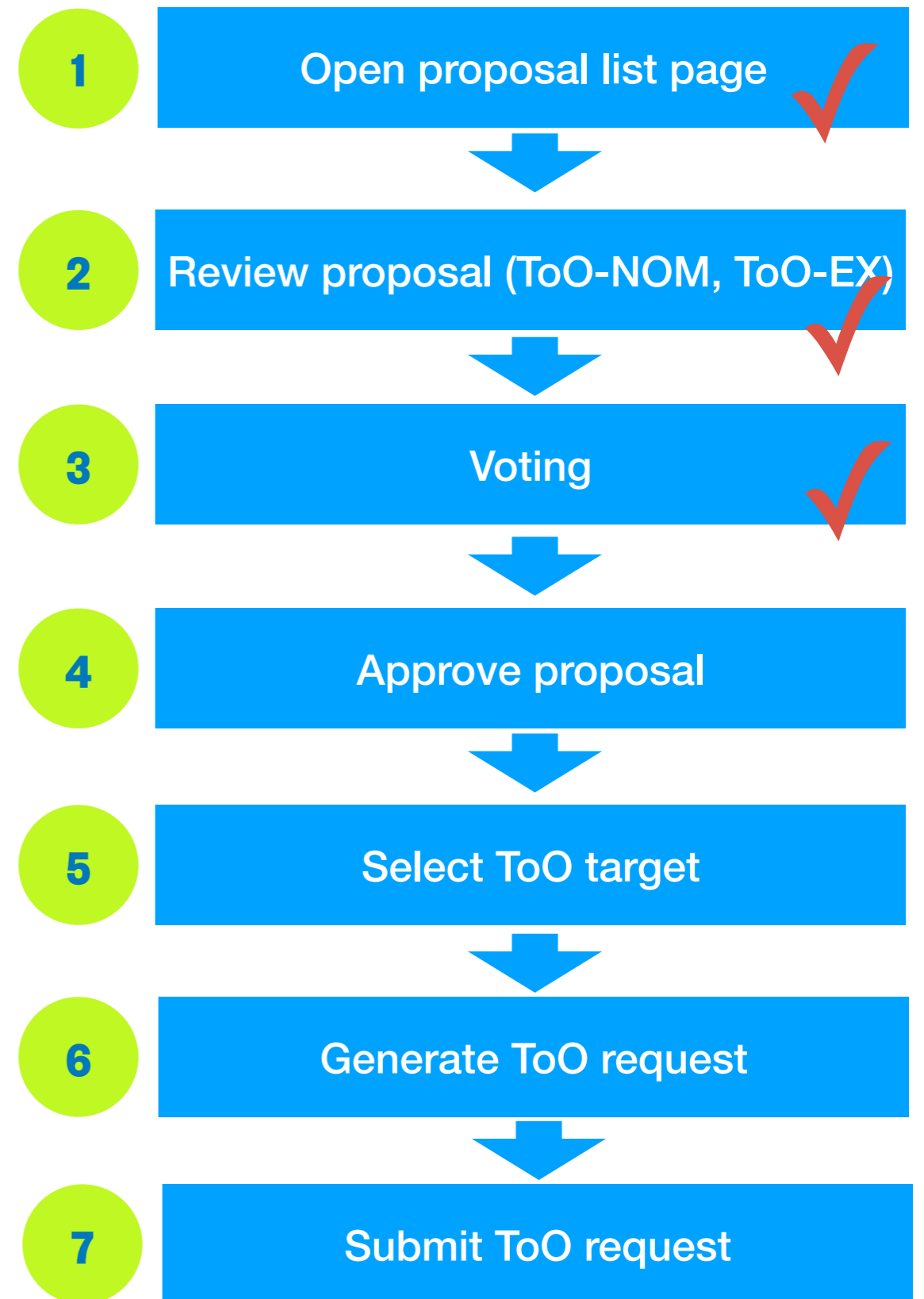


The voting result is given in a window. The proposal approval result is not necessarily decided by the voting. Instead the ToO scientist make approval based on the voting.

Name (* real name)	Affiliation	User Group	Email	Role	Decision
too_scientist_cn	China	China	too_scientist_cn@test.com	ToO Scientist	Vote
pi_cn	China	China	pi_cn@test.com	PI	Vote

PASS

Voting result



Approve proposal

The ToO scientist make approval by hand based on the voting.

SVOM Science User Support System

SVOM CSC SVOM STATUS SVOM DATA

SUSS HOME NEWS OBSERVING WITH SVOM HELP TOO_SCIENTIST_CN LOG OUT

- Attitude and orbit maneuver computation
- Upload of payload software
- Verification of the interfaces, timeframes and performances.

It is a test too proposal for NMS test. The proposal contains a ToO-NOM target

GB6-J1700+6830

Target List: Fold

SOURCE ID	OBS TYPE	EVENT NAME	RA (J2000)	Dec (J2000)	EXP TIME (VT)	WINDOW (VT)	INTERVAL (VT)	SPEED (VT)	CHANNEL (VT)	CLEANING (VT)	STA BILITY	MOON CHECK	REQUESTED OBS DURATION
> GB6-J1700+6830	ToO-NOM-AT		255.03873	68.50193	5	500	1	1	0	0	HIGH	VT	1

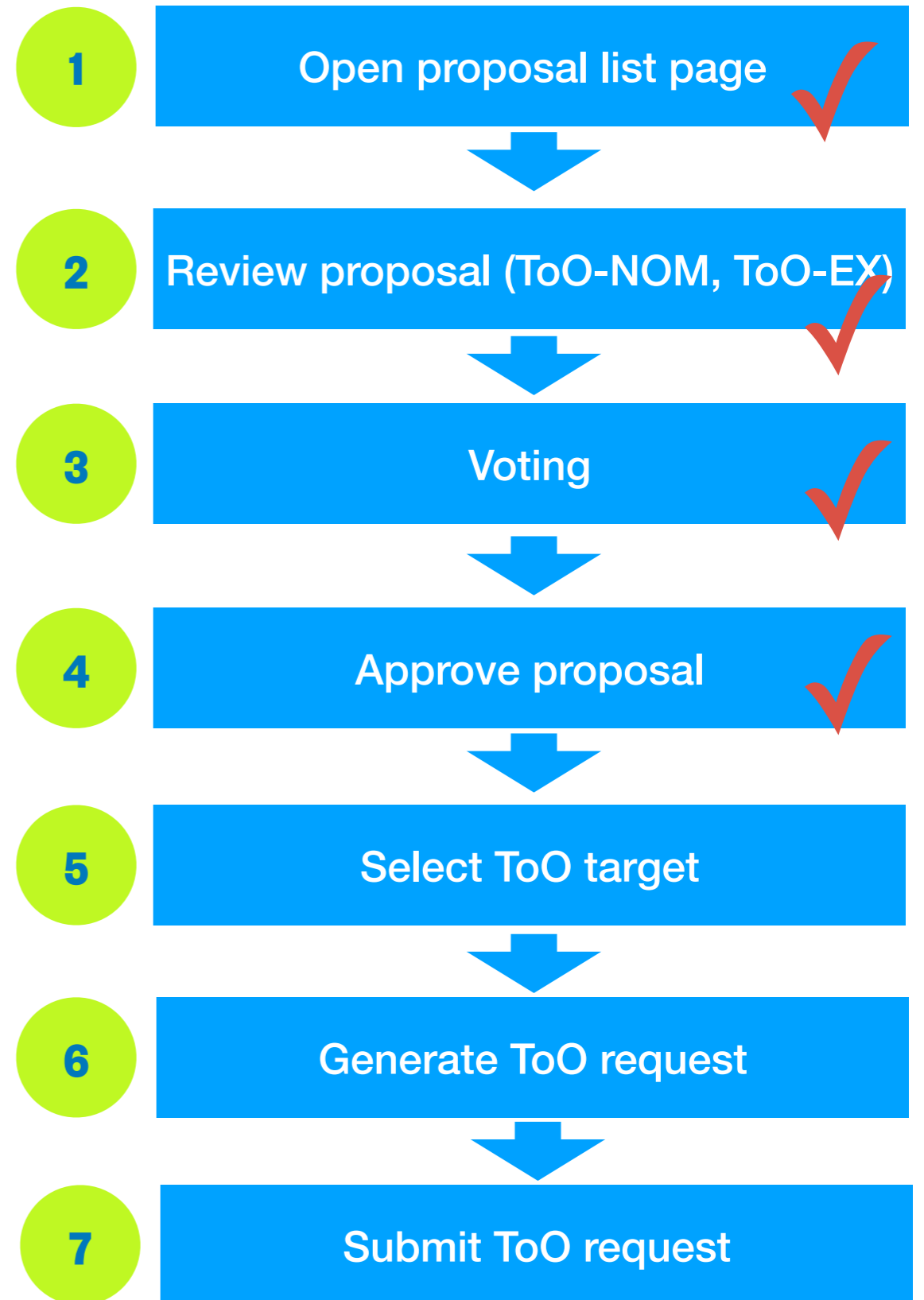
Approval

Approve Reject

Comment:

approve or reject

Approve proposal



The status of proposal changes to “Approved” after approval

SVOM Science User Support System

SVOM CSC SVOM STATUS SVOM DATA

SUSS HOME NEWS OBSERVING WITH SVOM HELP TOO_SCIENTIST_CN LOG OUT

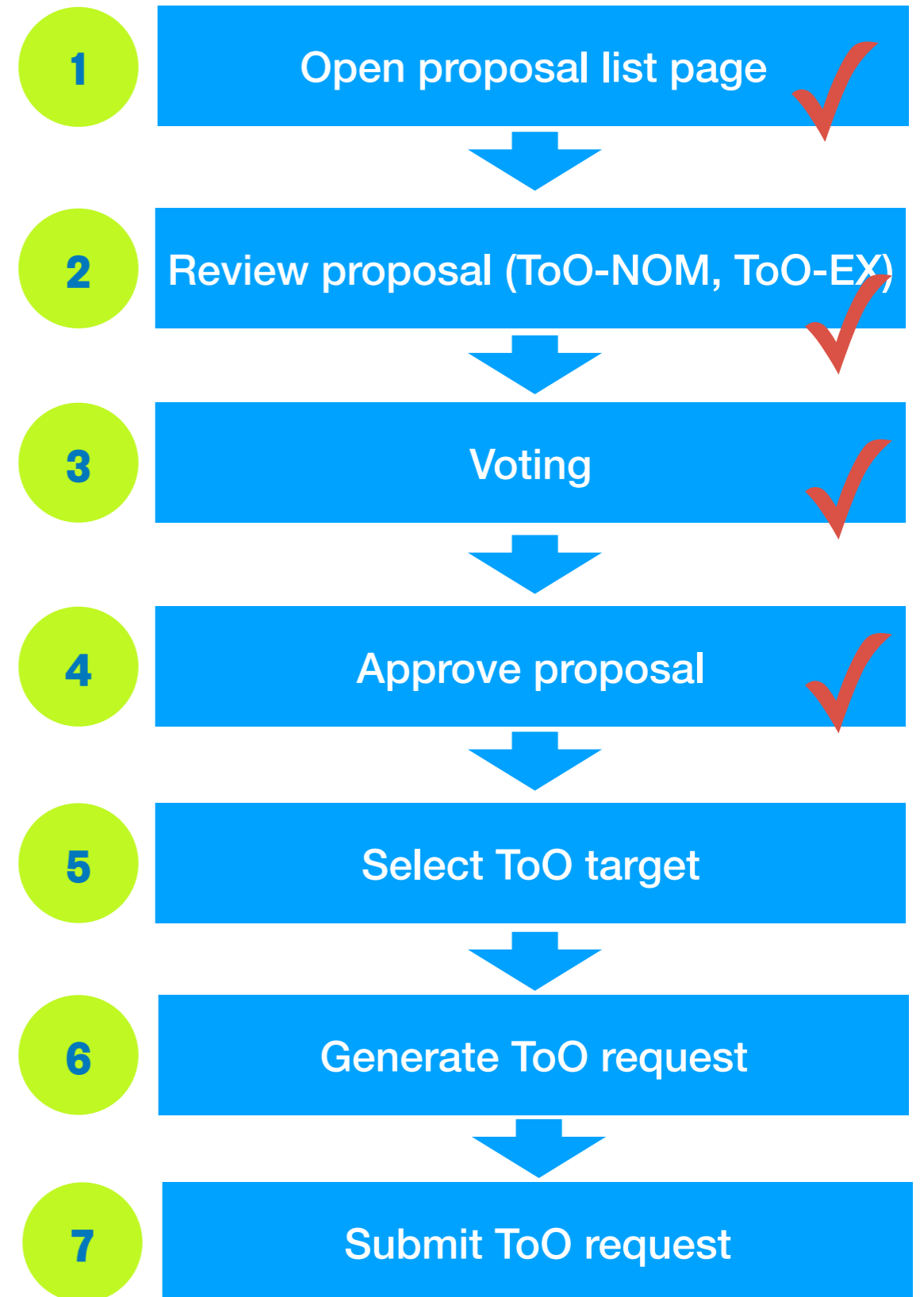
Advanced Search ★ NEW VOTES!

Search in current page

<input type="checkbox"/>	ID	Title	Author	Category	Current Status	Action
<input type="checkbox"/>	758	DEMO for NMS Creation Time: 2023-05-02T14:09:58.693	too_proposer		Approved	CHECK
<input type="checkbox"/>	705	test_gp_too_230403-2 Creation Time: 2023-04-03T22:20:29.912	admin		Check	CHECK
<input type="checkbox"/>	694	S200114f Creation Time: 2023-03-30T18:41:22.930			Tiling selected	CHECK

ARCHIVE DELETE Total: 1 < 1 > Items/Page 10

Proposal status



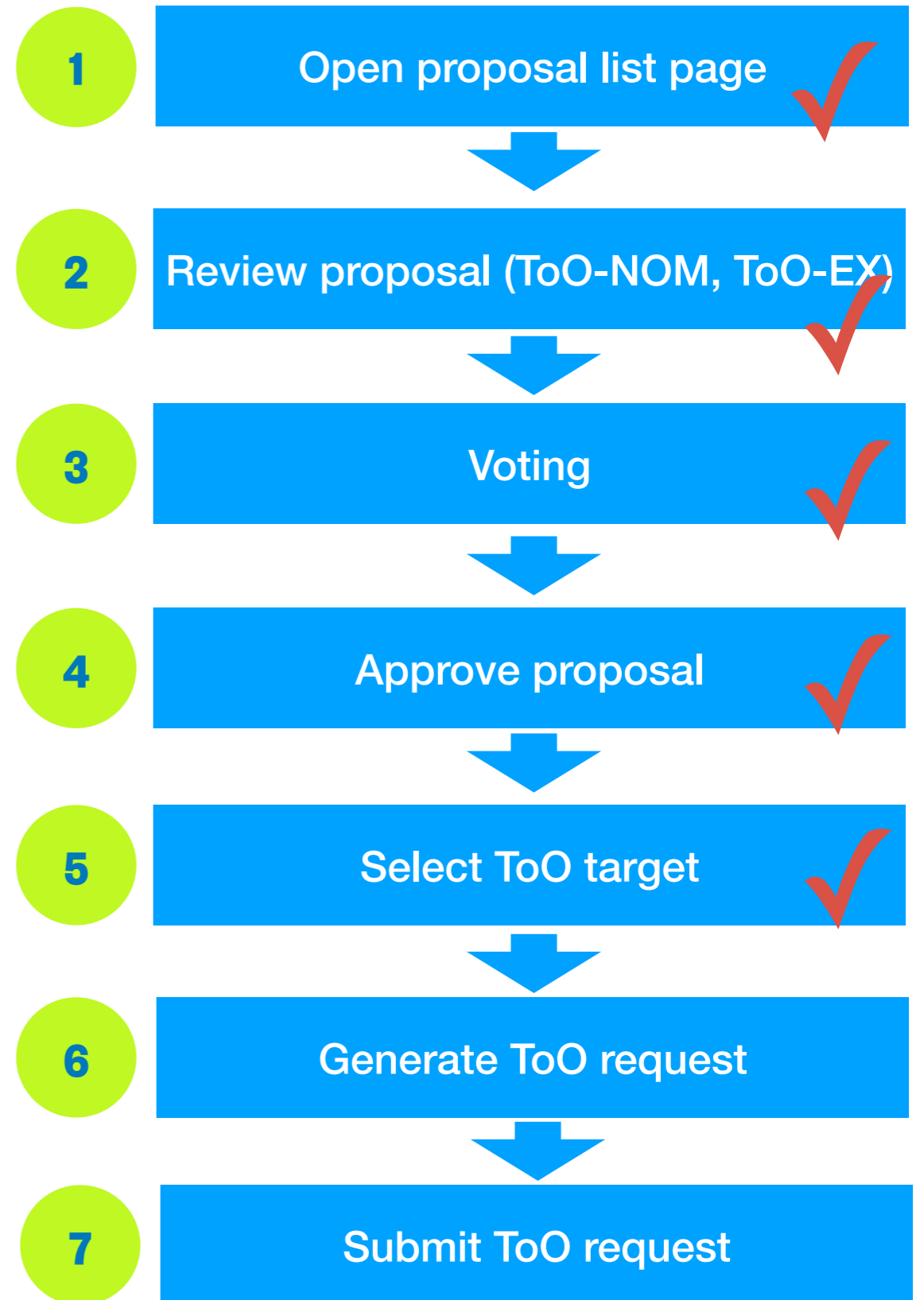
Select ToO target

The targets in the approved proposal will be injected into the target pool (**TOO-EX LIST** or **TOO-NOM-AT POOL**). ToO scientist chooses targets for observation in the pool, and generates ToO request.

The screenshot shows the SVOM Science User Support System interface. The top navigation bar includes 'SVOM CSC', 'SVOM STATUS', and 'SVOM DATA'. Below it, the 'SVOM Science User Support System' header is visible, along with navigation links like 'SUSS HOME', 'NEWS', 'OBSERVING WITH SVOM', 'HELP', 'TOO_SCIENTIST_CN', and 'LOG OUT'. The main content area displays a 'Target List' table under the 'TOO-NOM-AT POOL' tab. The table has columns for ID, PROPOSAL, SOURCE ID, SVOM DB OBJECT ID, OBS TYPE, RA (J2000), DEC (J2000), REQUESTED OBS DURATION, and USER GROUP. A red box highlights the 'ID' column, and a red arrow points to it with the text 'check target list'. The table contains three rows of data.

ID	PROPOSAL	SOURCE ID	SVOM DB OBJECT ID	OBS TYPE	RA (J2000)	DEC (J2000)	REQUESTED OBS DURATION	USER GROUP
449	100-230403	3		ToO-NOM-AT	324.34	45.32	5	CHN
574	100-230403	GB6-J1700+6830	ToO_575	ToO-NOM-AT	255.03873	68.50193	1	CHN
447	100-230403	1		ToO-NOM-AT	324.34	45.32	33	CHN

Target list

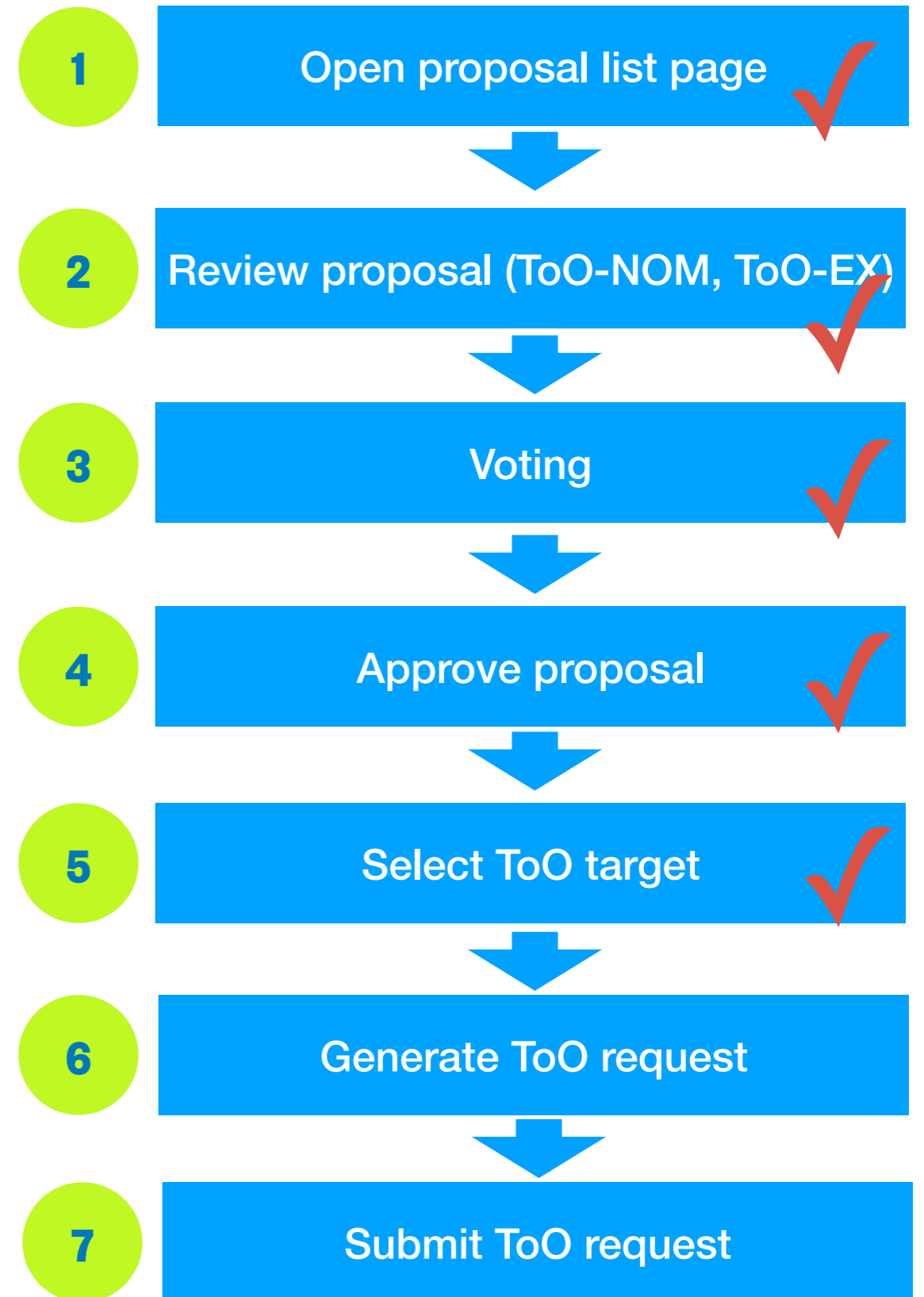


For ToO-NOM, multiple targets can be selected. ToO scientist can drag targets in the list, and save the orders (“Save Order” button) to set priority of each target in the ToO request.

The screenshot shows the SVOM Science User Support System interface. At the top, there are navigation links for SVOM CSC, SVOM STATUS, and SVOM DATA. Below that, there are links for SUSS HOME, NEWS, OBSERVING WITH SVOM, HELP, TOO_SCIENTIST_CN, and LOG OUT. The main content area has tabs for TOO-EX LIST, TOO-NOM-AT POOL, SUBMITTED TARGETS, SUBMITTED TILIN S, TOO-MM LIST, and TOO-REQUEST LIST. The TOO-NOM-AT POOL tab is active, showing a 'Target List' with 3 total targets. A 'Check Target Summary' button is visible. A 'save order' callout points to a 'Save Order' button. A 'drag to set orders for multiple ToOs' callout points to the target list table.

ID	PROPOSAL	SOURCE ID	SVOM DB OBJECT ID	OBS TYPE	RA (J2000)	DEC (J2000)	REQUESTED OBS DURATION	USER GROUP
449	test_gp_too_230403-2	3		ToO-NOM-AT	324.34	45.32	5	CHN
575	DEMO for NMS	GB6-J1700+6830	ToO_575	ToO-NOM-AT	255.03873	68.50193	1	CHN
447	test_gp_too_230403-2	1		ToO-NOM-AT	324.34	45.32	33	CHN

Set priority

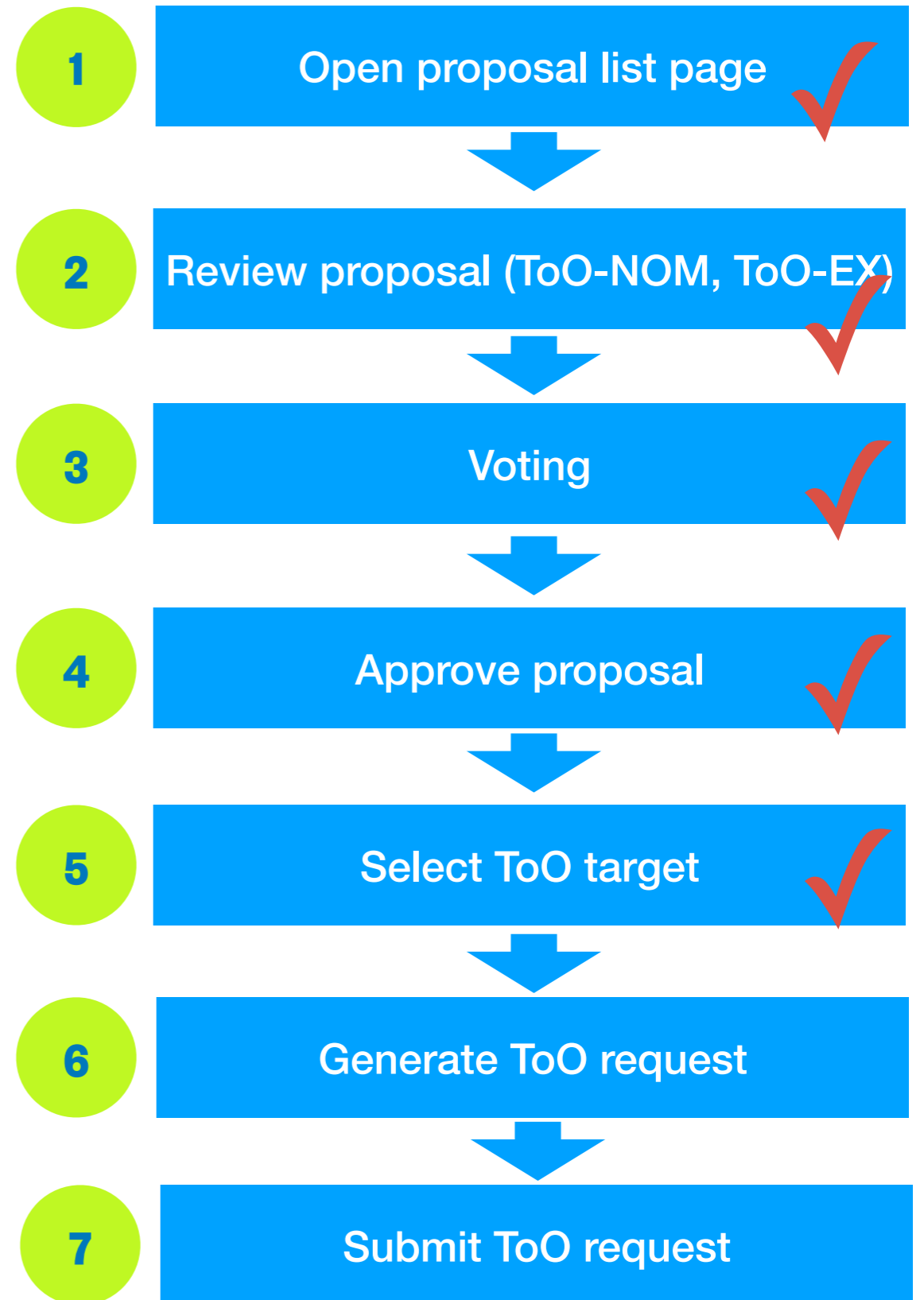


Click “**Prepare TOO-REQUEST**” button to open the ToO request generation page.

The screenshot shows the SVOM Science User Support System interface. At the top, there are navigation links for SVOM CSC, SVOM STATUS, and SVOM DATA. Below that, there are links for SUSS HOME, NEWS, OBSERVING WITH SVOM, HELP, TOO_SCIENTIST_CN, and LOG OUT. The main content area has several tabs: TOO-EX LIST, TOO-NOM-AT POOL, SUBMITTED TARGETS, SUBMITTED TILINGS, TOO-MM LIST, and TOO-REQUEST LIST. The TOO-NOM-AT POOL tab is active, showing a 'Target List' with a 'Total Target: 3' and a 'Check Target Summary' button. A search bar is present with the text 'Search In Current Page'. A table lists three targets with columns for ID, PROPOSAL, SOURCE ID, SVOM DB OBJECT ID, OBS TYPE, RA (J2000), DEC (J2000), REQUESTED OBS DURATION, and USER GROUP. The first two rows have checkboxes checked. A red box highlights the 'Prepare TOO-REQUEST' button. Another red box highlights the checkboxes in the table. A third red box highlights the 'select target' text at the bottom left.

ID	PROPOSAL	SOURCE ID	SVOM DB OBJECT ID	OBS TYPE	RA (J2000)	DEC (J2000)	REQUESTED OBS DURATION	USER GROUP
449	test_gp_too_230403-2	3		ToO-NOM-AT	324.34	45.32	5	CHN
575	DEMO for NMS	GB6-J1700+6830	ToO_575	ToO-NOM-AT	255.03873	68.50193	1	CHN
447	test_gp_too_230403-2	1		ToO-NOM-AT	324.34	45.32	33	CHN

Select target



The target pool (**TOO-EX LIST** or **TOO-NOM-AT POOL**) can be cleaned by ToO scientist, who can remove target from the list by click “**DELETE**” button.

SVOM Science User Support System

SVOM CSC SVOM STATUS SVOM DATA

SUSS HOME NEWS OBSERVING WITH SVOM HELP TOO_SCIENTIST_CN LOG OUT

Advanced Search

TOO-EX LIST **TOO-NOM-AT POOL** SUBMITTED TARGETS SUBMITTED TILINGS TOO-MM LIST TOO-REQUEST LIST

Target List Total Target: 3 [Check Target Summary](#) [Save Order](#) [Prepare TOO-REQUEST](#)

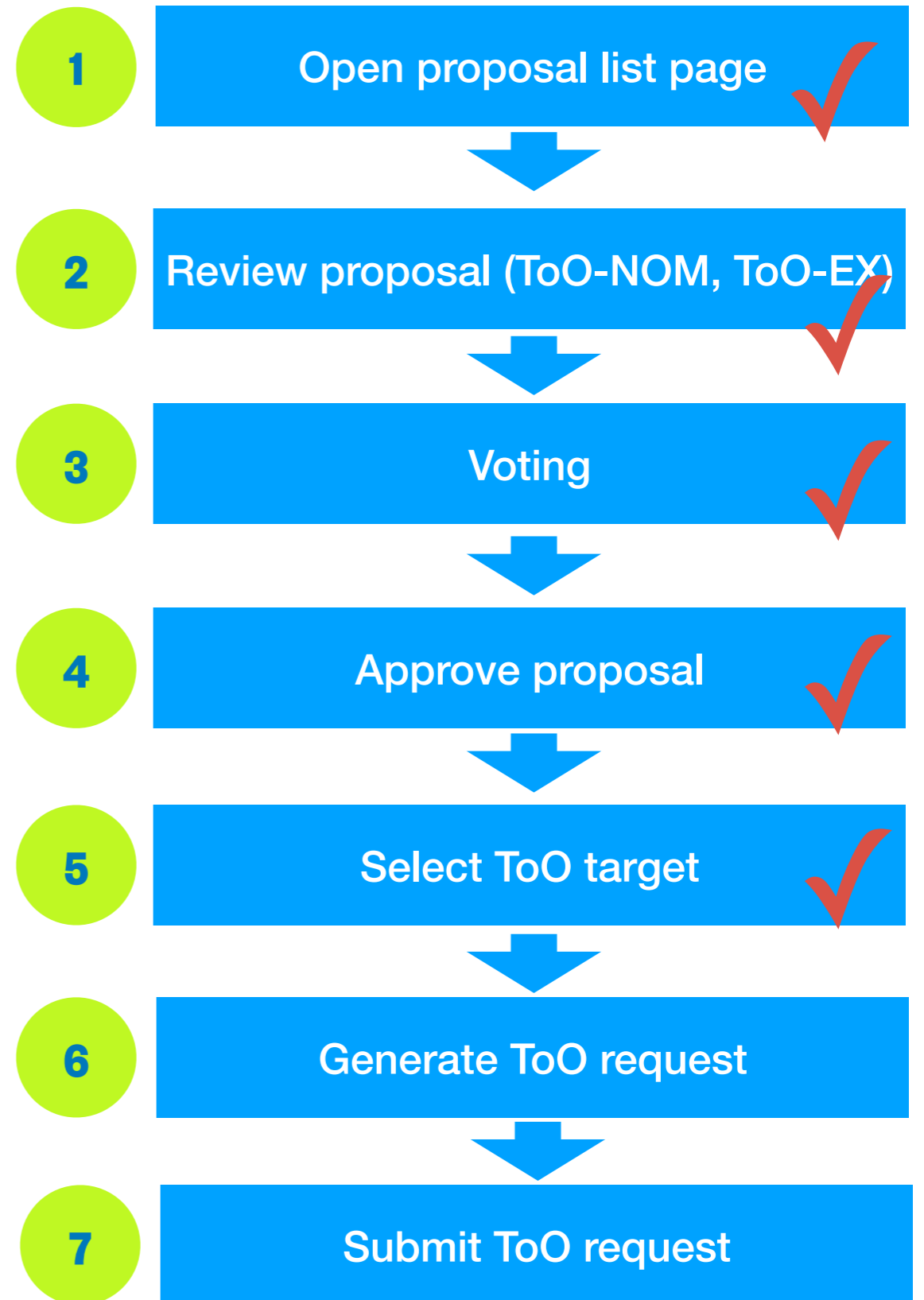
Search In Current Page Fold

ID	PROPOSAL	SOURCE ID	SVOM DB OBJECT ID	OBS TYPE	RA (J2000)	DEC (J2000)	REQUESTED OBS DURATION	USER GROUP
<input checked="" type="checkbox"/>	test_gp_too_230403-2	3		ToO-NOM-AT	324.34	45.32	5	CHN
<input checked="" type="checkbox"/>	DEMO for NMS	GB6-J1700+6830	ToO_575	ToO-NOM-AT	255.03873	68.50193	1	CHN
<input type="checkbox"/>	test_gp_too_230403-2	1		ToO-NOM-AT	324.34	45.32	33	CHN

DELETE

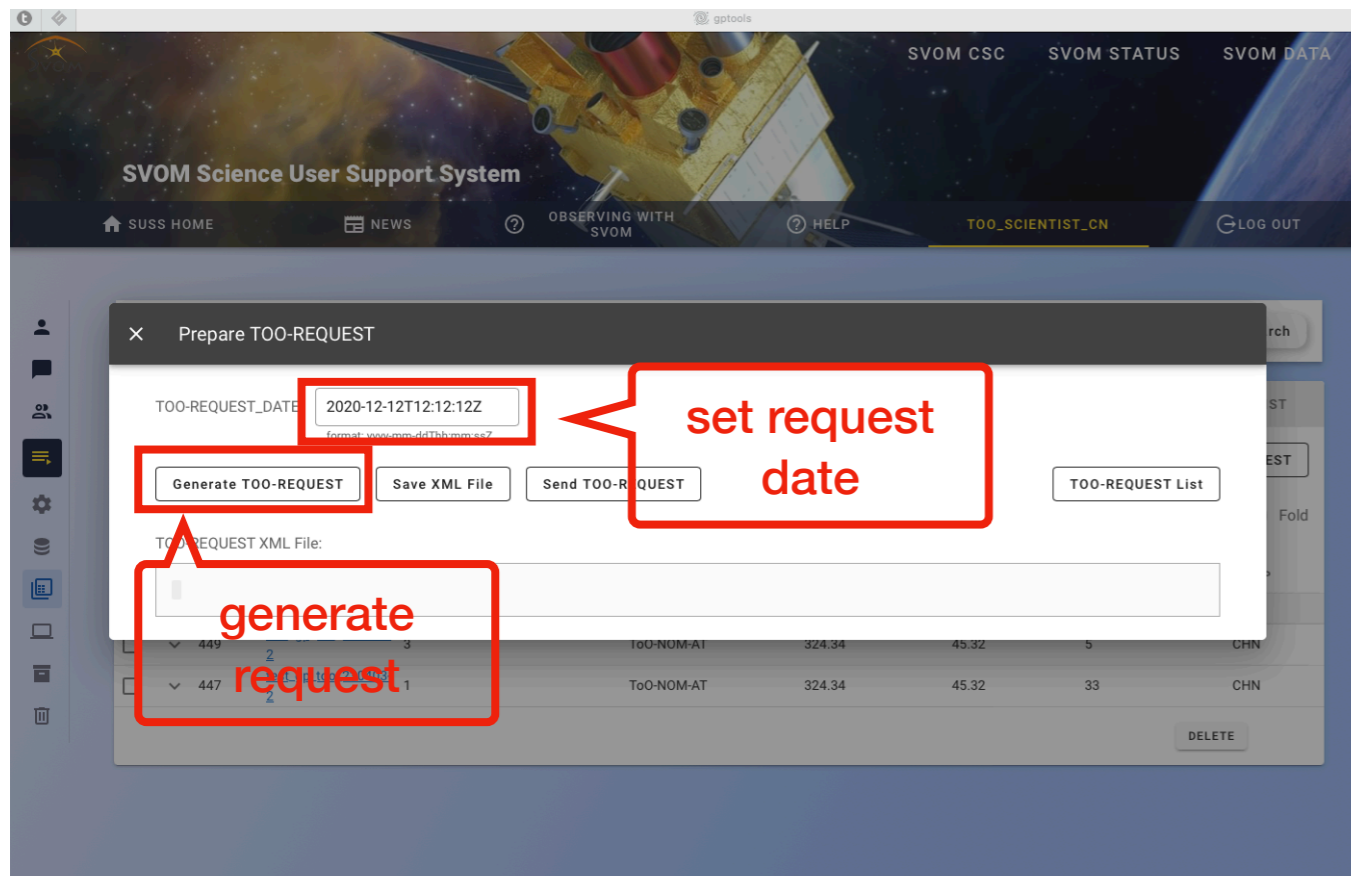
delete target

Clean pool

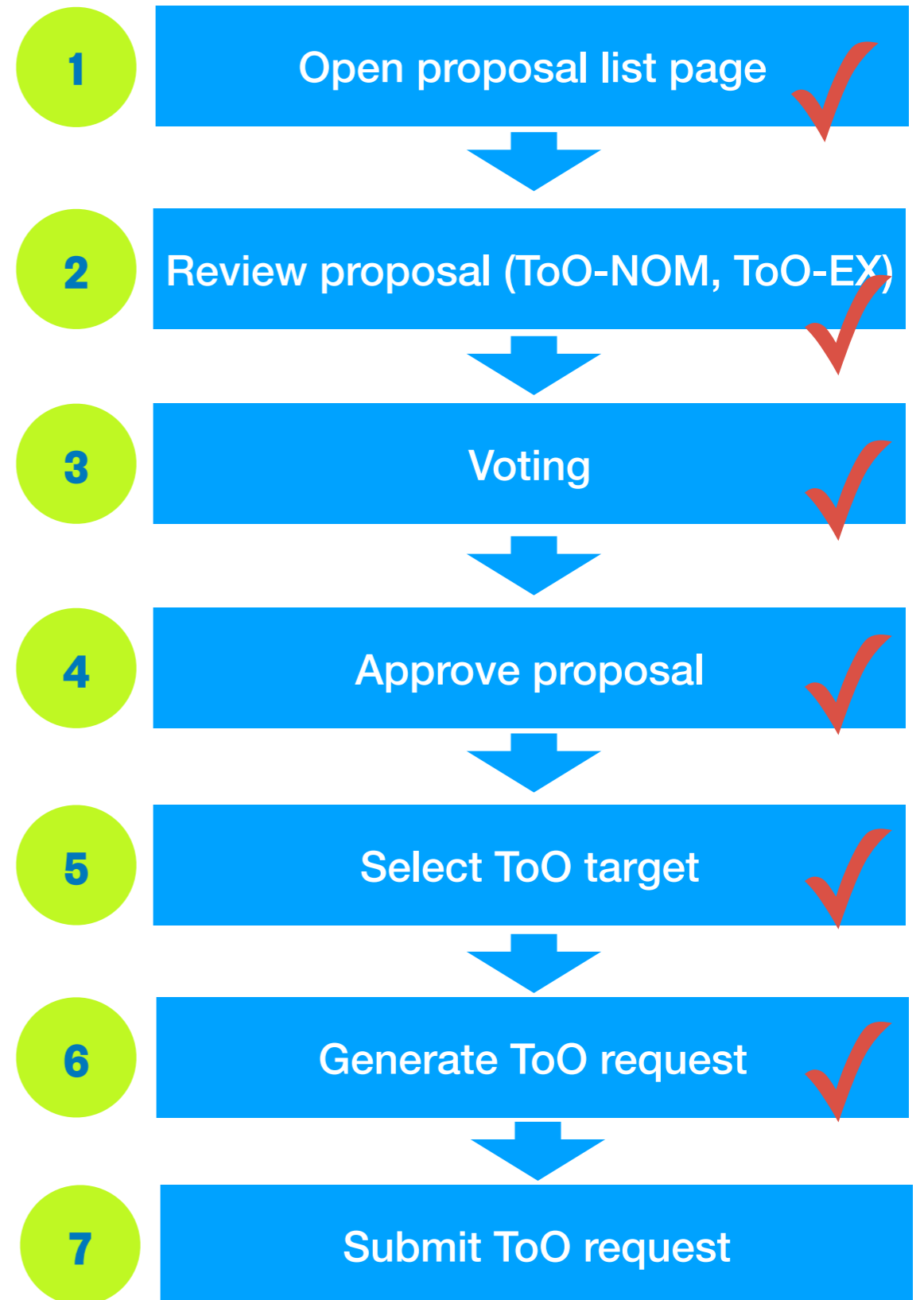


Generate ToO request

To generate a ToO request, ToO scientist needs to set “**TOO-REQUEST_DATE**” first. Then, generate request by clicking “**Generate TOO-REQUEST**”.



Generate ToO request

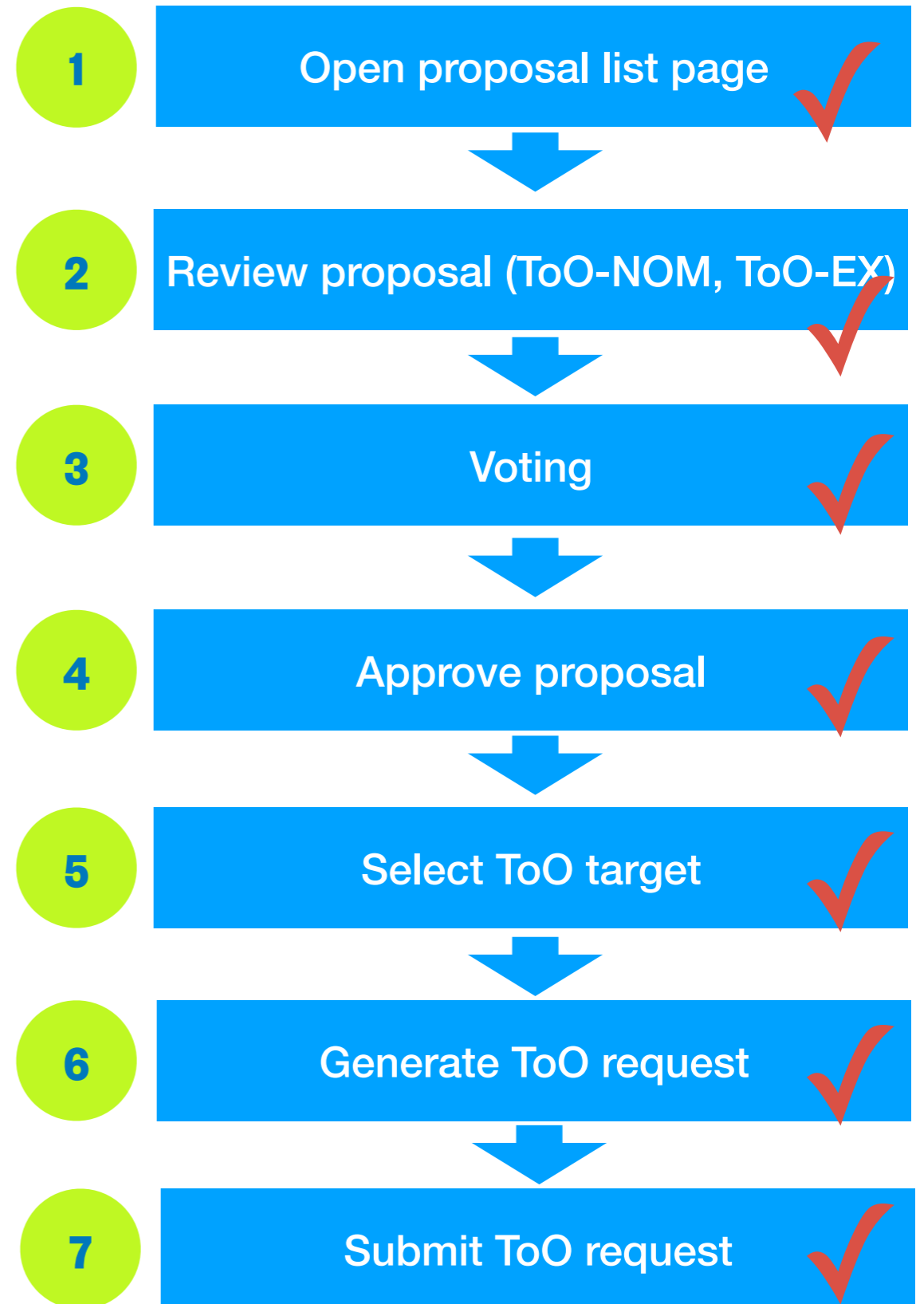


Submit ToO request

The ToO request content is shown in the window. ToO scientist should check it carefully. Then, submits request to the Mission Center by clicking “**Send TOO-REQUEST**”.

The screenshot shows the 'Prepare TOO-REQUEST' window. At the top, there's a date field '2023-05-04T00:00:00Z' with a format hint 'format: yyyy-mm-ddThh:mm:ssZ'. Below it are three buttons: 'Generate TOO-REQUEST', 'Save XML File', and 'Send TOO-REQUEST'. A red callout box with a white background and black border points to the 'Send TOO-REQUEST' button, containing the text 'submit request'. To the right of the buttons is a 'TOO-REQUEST List' button. Below the buttons, there's a text area showing the XML content of the request. The XML starts with a header containing metadata like satellite name, schema version, and production date. The data section includes fields for request date, number of observations, and observation type.

ToO request content



Check submitted ToO request

The submitted ToO request is shown in the “**TOO-REQUEST LIST**” subpage. NOTE: only submitted ToO requests are stored. Unsubmitted ones will be lost. User can save them by hand.

The screenshot shows the SVOM Science User Support System interface. The top navigation bar includes links for SVOM CSC, SVOM STATUS, and SVOM DATA. The main header displays the system name and navigation options like SUSS HOME, NEWS, OBSERVING WITH SVOM, HELP, TOO_SCIENTIST_CN, and LOG OUT. The main content area features a search bar and a tabbed interface with the following tabs: TOO-EX LIST, TOO-NOM-AT POOL, SUBMITTED TARGETS, SUBMITTED TILINGS, TOO-MM LIS, and **TOO-REQUEST LIST**. The **TOO-REQUEST LIST** tab is active, showing a table with the following data:

ID	REQUEST DATE	FILE NAME	OBS_TYPE	BEGIN	END	NUMBER
<input type="checkbox"/> 179	2023-05-04T00:00:00Z	SVOM_ToO_NO_20230504T000000_20230505T000000_20230503T062027_1.xml	ToO-NOM			1

Below the table, there is an 'ARCHIVE' button and pagination controls showing 'Total: 1' and '1' items per page. A red box highlights the 'TOO-REQUEST LIST' tab, another red box highlights the table, and a third red box highlights the pagination controls with the text 'request list' written in red.

ToO request content

Check submitted ToO target

The submitted ToO target is shown in the “**SUBMITTED TARGETS**” subpage. NOTE: Un-submitted targets can be seen in the target pool (**TOO-EX LIST** or **TOO-NOM-AT POOL**).

The screenshot shows the SVOM Science User Support System interface. The main navigation bar includes links for SVOM CSC, SVOM STATUS, SVOM DATA, SUSS HOME, NEWS, OBSERVING WITH SVOM, HELP, TOO-SCIENTIST_CN, and LOG OUT. The subpage is titled "TOO-REQUEST LIST" and shows a table with the following data:

ID	REQUEST DATE	FILE NAME	OBS_TYPE	BEGIN	END	NUMBER
179	2023-05-04T00:00:00Z	SVOM_ToO_NO_20230504T000000_20230505T000000_20230503T062027_1.xml	ToO-NOM			1

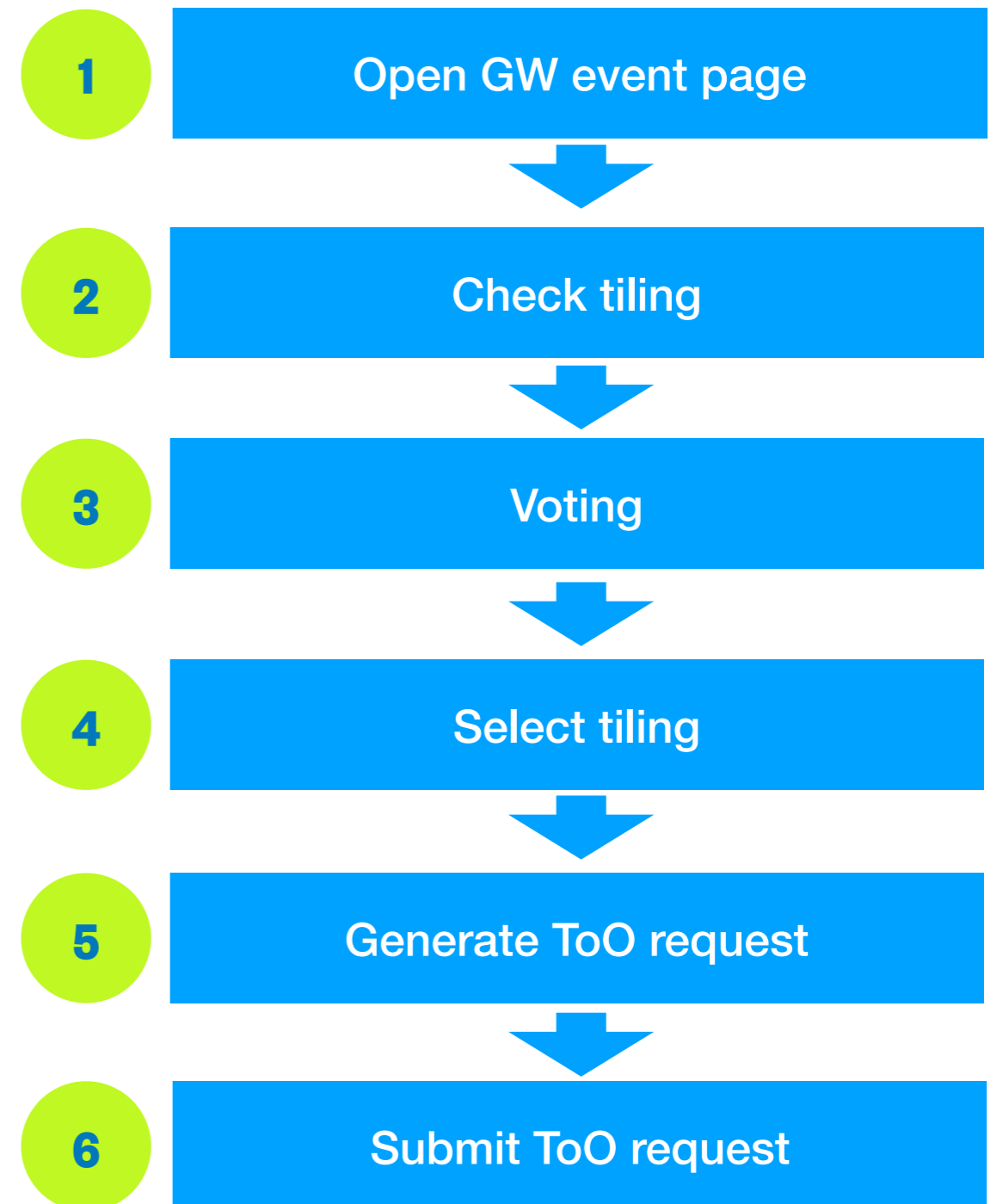
The page also includes an "ARCHIVE" button and pagination controls showing "Total: 1" and "1" items per page.

ToO request content

To apply ToO-MM

Do six steps:

1. open GW event page
2. check event and tiling information
3. call for a voting if necessary
4. select tiling
5. generate ToO request
6. submit ToO request

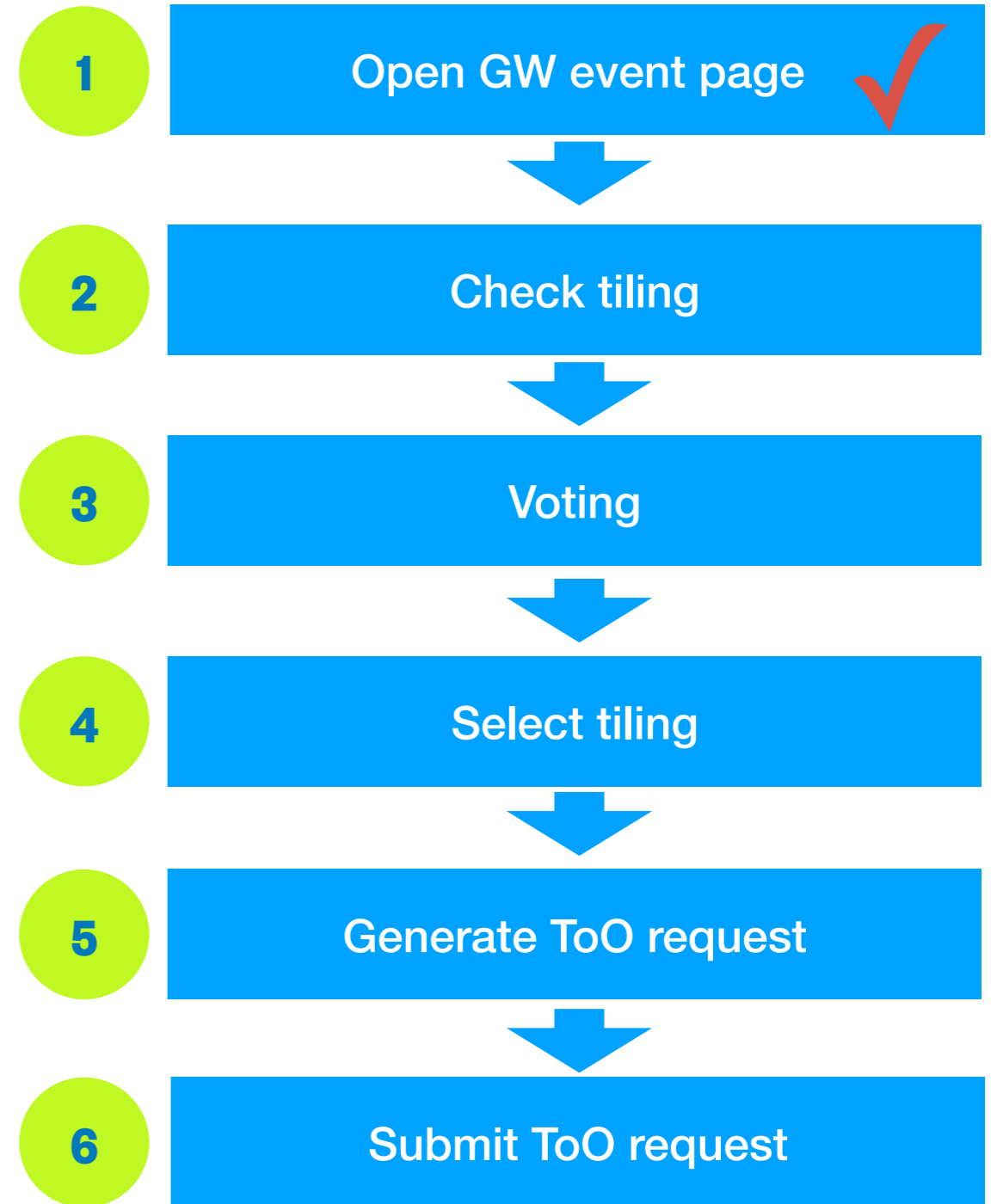


Open GW event page

The ToO-MM is treated as a given type of proposal. One proposal contains one GW event. The tilings are shown in the proposal page.

ID	Title	Author	Category	Current Status	Action
778	ToONomList_W1_Day_3 Creation Time: 2023-05-08T03:33:02.939	too_proposer		Approved Update Time: 2023-05-08T04:26:19.946	CHECK
777	ToONomList_W1_Day_3 Creation Time: 2023-05-08T02:48:17.501	too_proposer		Rejected Update Time: 2023-05-08T03:25:11.276	CHECK
775	test save Creation Time: 2023-05-05T10:29:52.215	admin		Waiting for approval Update Time: 2023-05-08T16:11:33.732	APPROVE
772	ToONomList_W1_Day_2 Creation Time: 2023-05-05T02:45:52.528	too_proposer		Approved Update Time: 2023-05-05T03:01:32.985	CHECK
771	ToONomList_W1_Day_1 Creation Time: 2023-05-05T02:43:20.466	too_proposer		Approved Update Time: 2023-05-05T03:01:12.591	CHECK
770	ToONomList_W0_Day_7 Creation Time: 2023-05-05T01:28:02.276	too_proposer		Approved Update Time: 2023-05-05T03:00:52.139	CHECK
767	ToONomList_W0_Day_6 Creation Time: 2023-05-04T01:01:10.046	too_proposer		Approved Update Time: 2023-05-04T04:47:54.828	CHECK
758	DEMO for NMS Creation Time: 2023-05-02T14:09:58.693	too_proposer		Approved Update Time: 2023-05-03T05:46:25.140	CHECK
705	test_gp_too_230403-2 Creation Time: 2023-05-03T18:41:22.930	admin		Check Update Time: 2023-04-17T15:56:28.006	CHECK
694	S200114f Creation Time: 2023-03-30T18:41:22.930			Tiling selected Update Time: 2023-04-17T15:56:28.006	CHECK

ToO-MM proposal



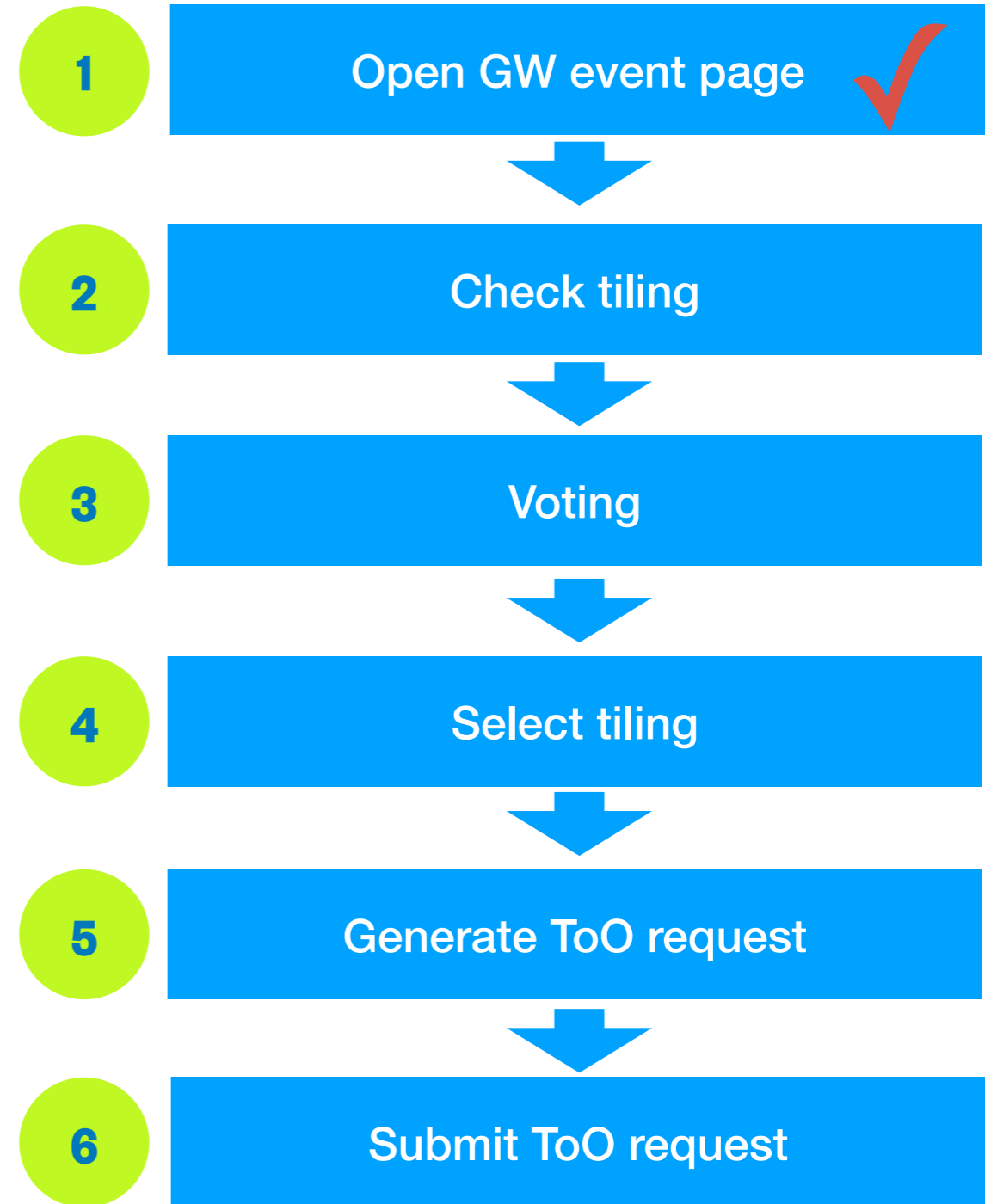
“ToO-MM” type proposal

The GW information is shown in the proposal page. All received tilings are listed in the page

The screenshot shows the SVOM Science User Support System interface. The top navigation bar includes 'SVOM CSC', 'SVOU HOME', 'NEWS', 'OBSERVING WITH SVOM', 'HELP', and 'ADMIN'. The main content area displays event details for S200114f, including its classification as 'Terrestrial 0.0', event time, instruments, and a link to the event page. A 'Tiling log' section is visible, containing a table of received tilings. A red box highlights the 'Tiling 5' entry in the log, and a red callout bubble points to the 'tiling' column header.

sourceId	toolId	tileId	tileScore	ra
GW_S200114f_3	-13	1	0.0167	110.64
GW_S200114f_3	-13	2	0.0167	109.64
GW_S200114f_3	-13	3	0.0162	109.19
GW_S200114f_3	-13	4	0.016	110.61
GW_S200114f_3	-13	5	0.016	111.04
GW_S200114f_3	-13	6	0.0158	110.25
GW_S200114f_3	-13	7	0.0158	111.06

tiling list



Check tiling

The skymap of tiling coverage will be displayed in the page for ToO scientist to check the tiling in the next version. It is not available in current version

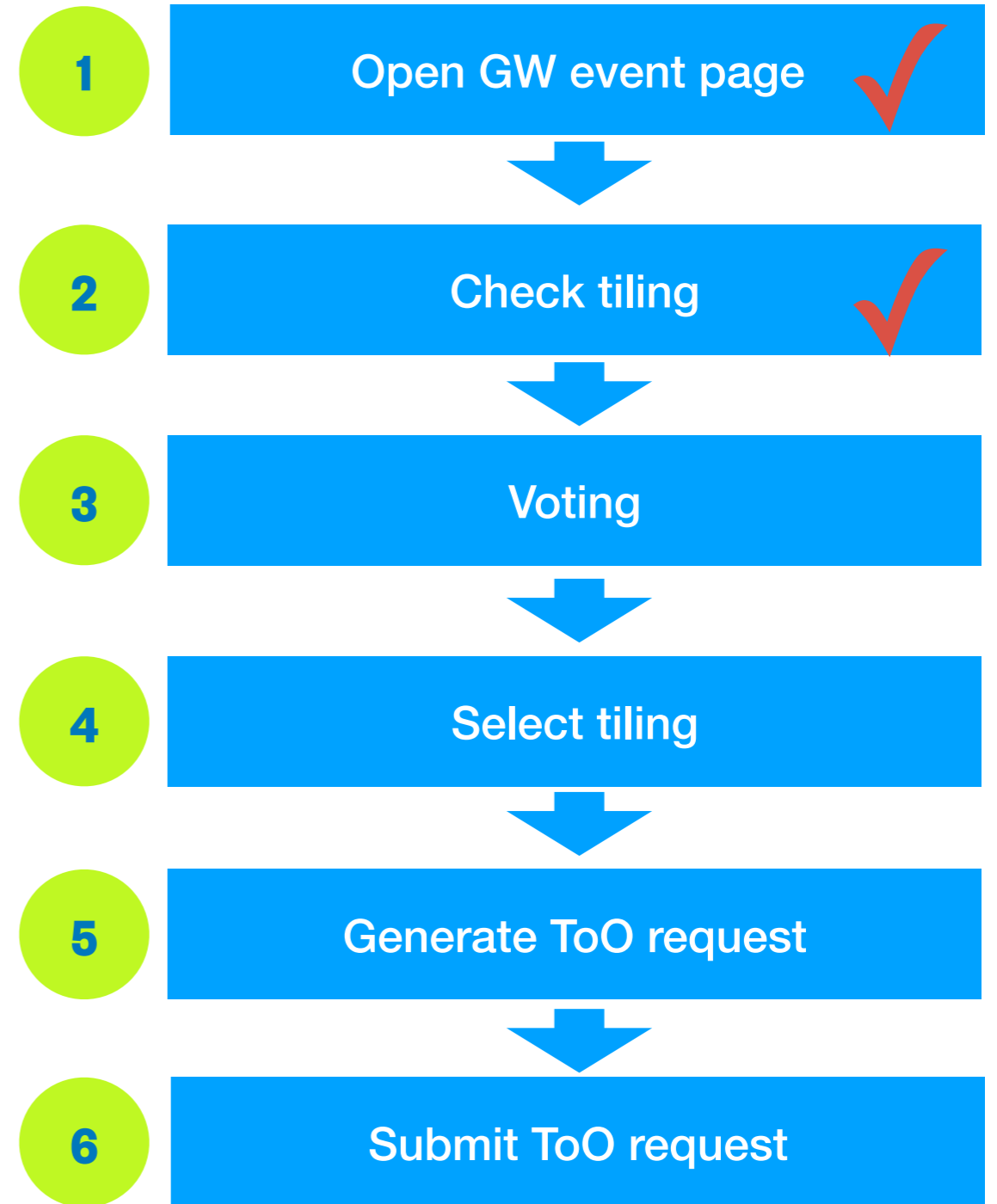
SVOM Science User Support System

Event: S200114f
Classification: Terrestrial 0.0
Event Time: 2020-01-14T02:08:18.239
Instruments: H1,L1,V1
Event Page: <https://gracedb.ligo.org/superevents/S200114f/view/>

Tiling log:

Tiling 5 : 1680252982.6082575_in_8.json
Date: 2023-03-31T09:31:10.103

sourceId	toolMmid	tileId	tileScore	ra
GW_S200114f_3	-13	1	0.0167	110.64
GW_S200114f_3	-13	2	0.0167	109.64
GW_S200114f_3	-13	3	0.0162	109.19
GW_S200114f_3	-13	4	0.016	110.61
GW_S200114f_3	-13	5	0.016	111.04
GW_S200114f_3	-13	6	0.0158	110.25
GW_S200114f_3	-13	7	0.0158	111.06



Select tiling

To click “**SELECT TILING**” button to choose it. If there are multiple tilings, each tiling has one “**SELECT TILING**” button.

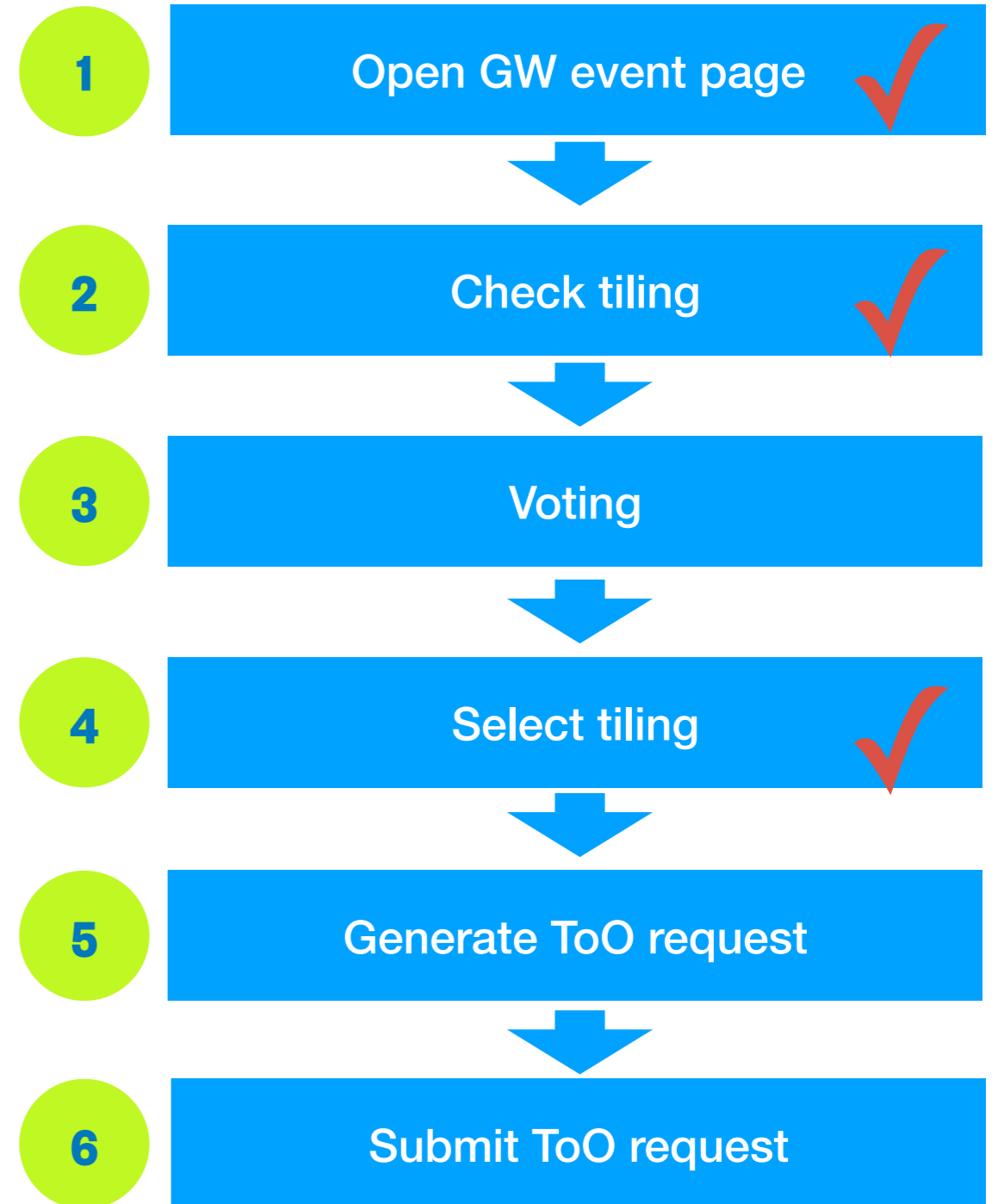
The screenshot shows the SVOM Science User Support System interface. At the top, there is a navigation bar with links for SUSS HOME, NEWS, OBSERVING WITH SVOM, HELP, and ADMIN. Below the navigation bar, there is a section titled "Tiling log:" which contains a table of tiling data. The table has columns for sourceId, tooMmid, tileId, tileScore, and ra. The data is as follows:

sourceId	tooMmid	tileId	tileScore	ra
GW_S200114f_3	-13	1	0.0167	110.64
GW_S200114f_3	-13	2	0.0167	109.64
GW_S200114f_3	-13	3	0.0162	109.19
GW_S200114f_3	-13	4	0.016	110.61
GW_S200114f_3	-13	5	0.016	111.04
GW_S200114f_3	-13	6	0.0158	110.25
GW_S200114f_3	-13	7	0.0158	111.06
GW_S200114f_3	-13	8	0.0156	109.7
GW_S200114f_3	-13	9	0.015	109.53
GW_S200114f_3	-13	10	0.015	109.18

Below the table, there is a pagination control showing "Total: 8" and a dropdown menu for "Items/Page" set to "10". At the bottom of the interface, there are four buttons: "SELECT TILING", "RETRACT TILING", "START VOTING", and "VOTING RESULT". The "SELECT TILING" button is highlighted with a red box, and a red callout box points to it with the text "select tiling".

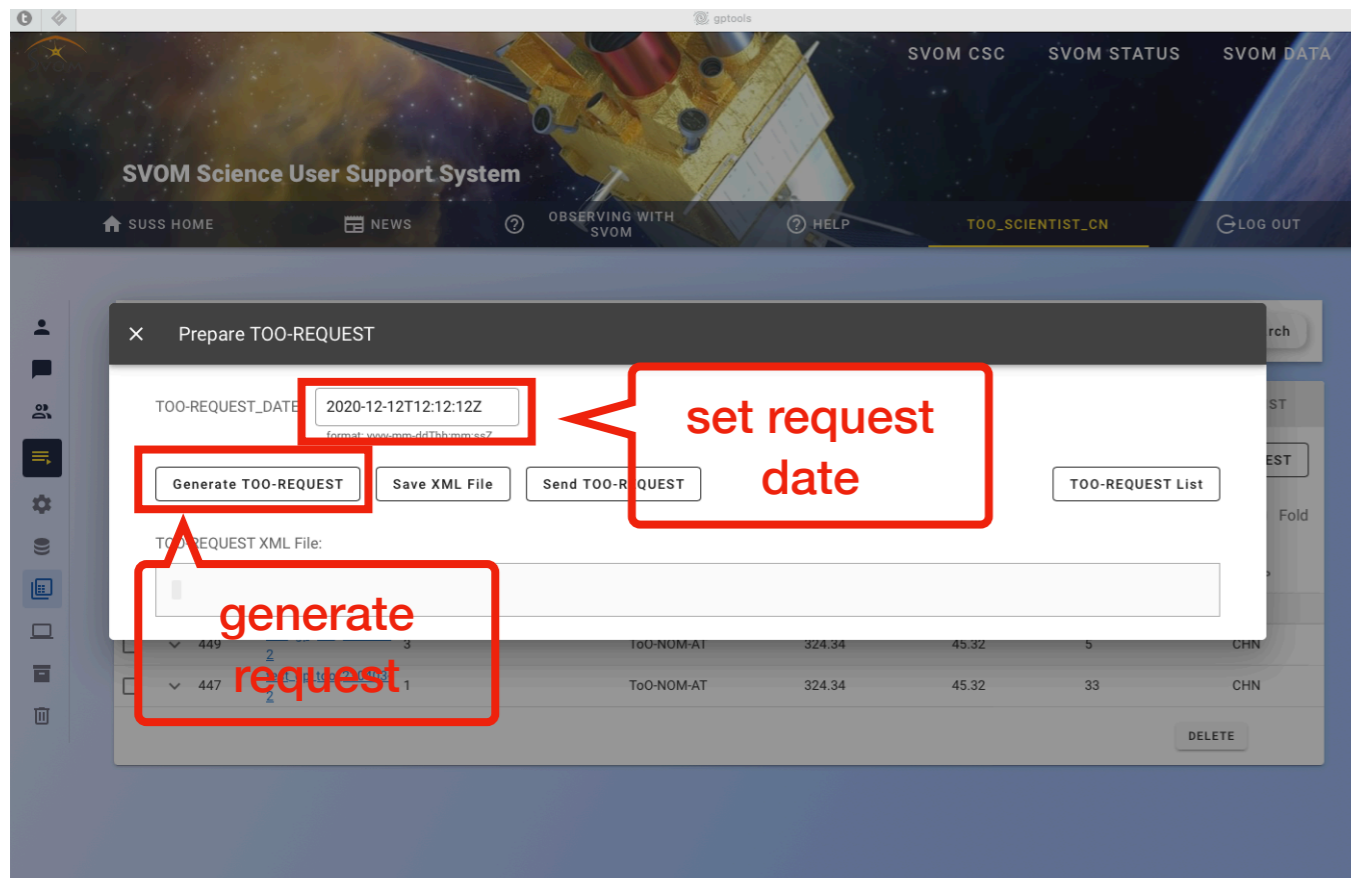
Select tiling

select tiling

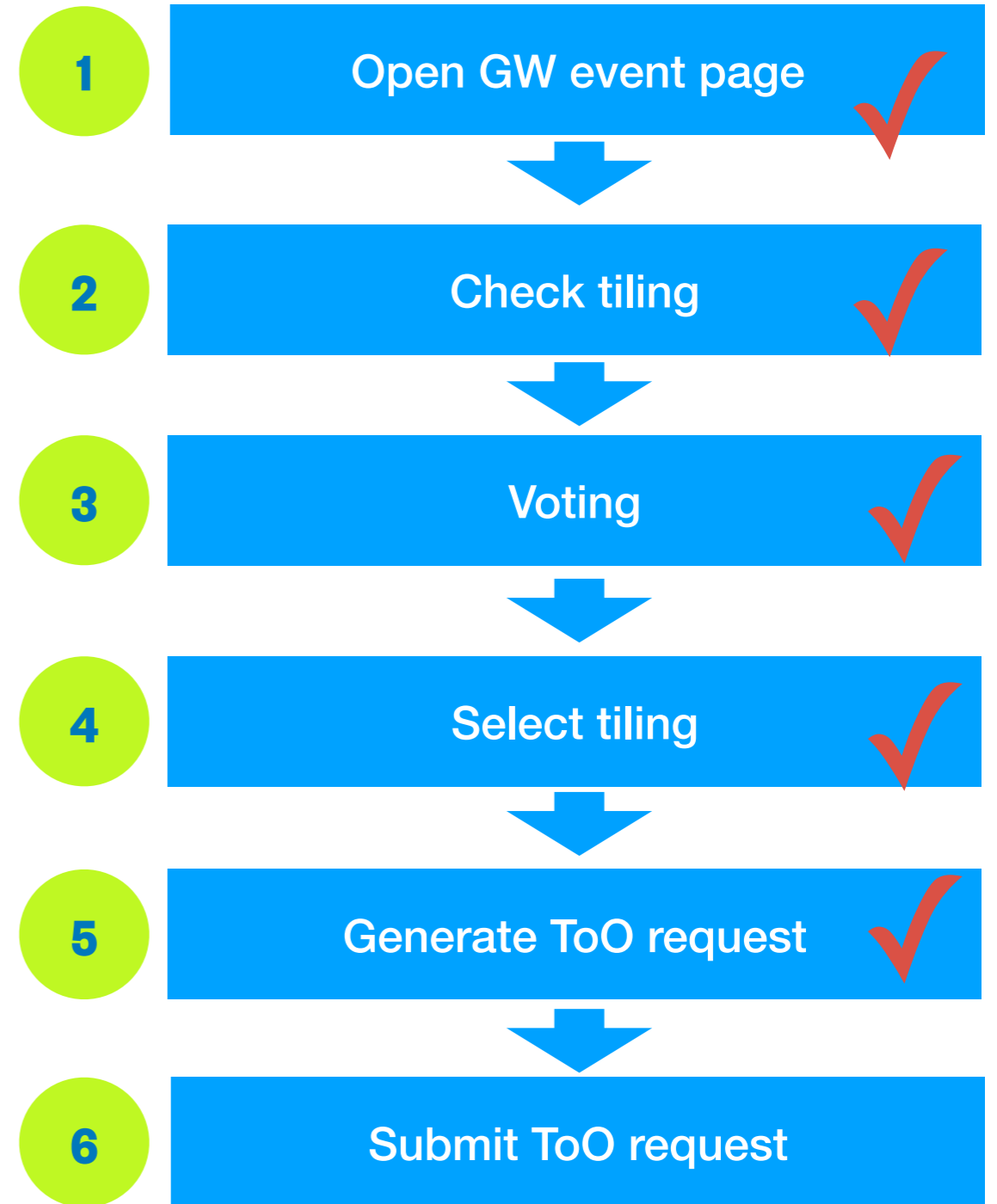


Generate ToO request

To generate a ToO request, ToO scientist needs to set “**TOO-REQUEST_DATE**” first. Then, generate request by clicking “**Generate TOO-REQUEST**”.



Generate ToO request



Submit ToO request

The ToO request content is shown in the window. ToO scientist should check it carefully. Then, submits request to the Mission Center by clicking “**Send TOO-REQUEST**”.

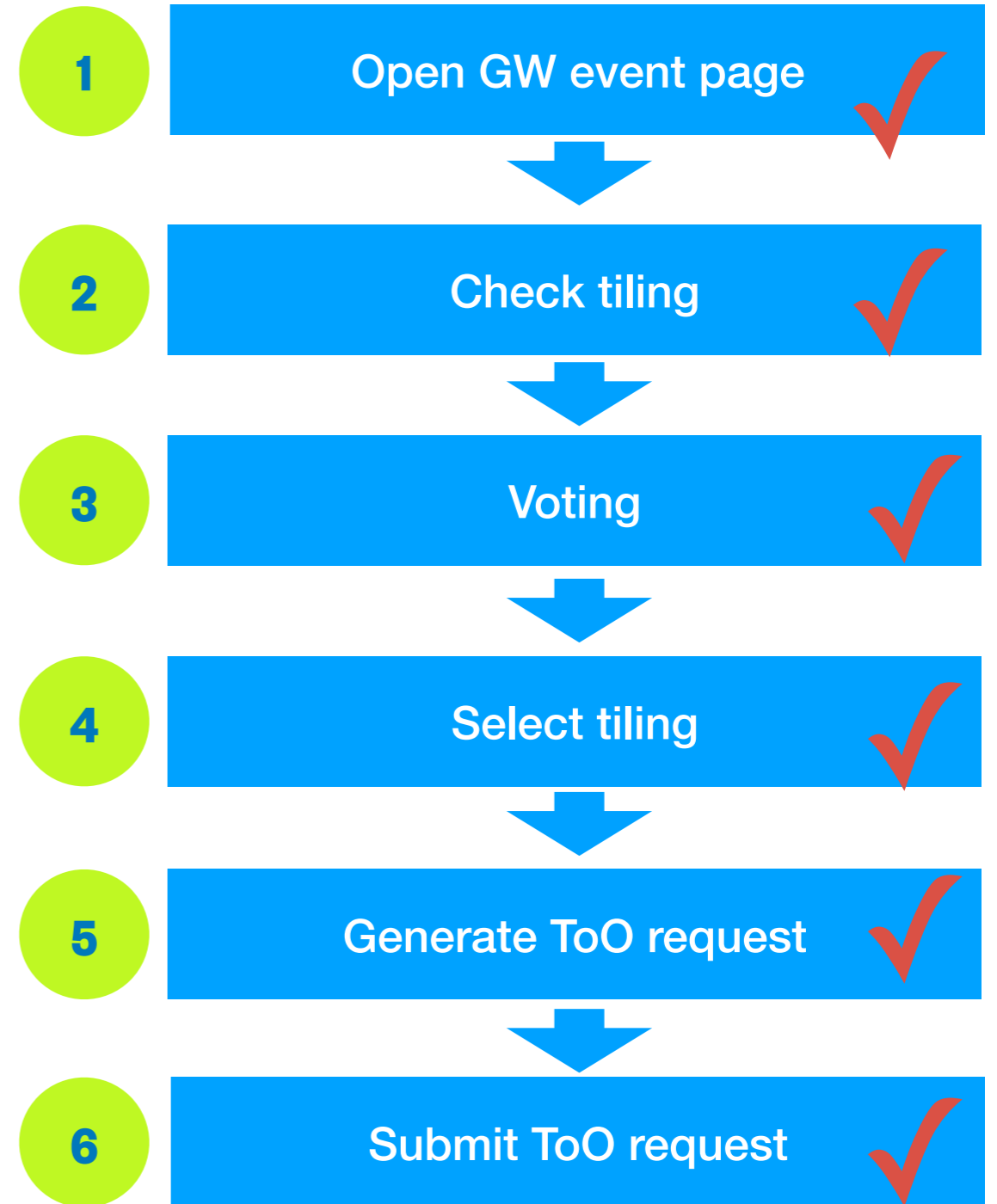
TOO-REQUEST DATE: 2023-05-04T00:00:00Z
format: yyyy-mm-ddThh:mm:ssZ

Buttons: Generate TOO-REQUEST, Save XML File, **Send TOO-REQUEST**, TOO-REQUEST List

TOO-REQUEST XML File: SVOM_ToO_NO_20230504T000000_20230505T000000_20230503T062027_1.xml 2023-05-04T00:00:00Z

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<TOO-REQUEST xsi:noNamespaceSchemaLocation="TOO-REQUEST.XSD" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <HEADER>
    <SATELLITE>SVOM</SATELLITE>
    <INTERFACE_SPECIFICATION>
      <SCHEMA_NAME>TOO-REQUEST.XSD</SCHEMA_NAME>
      <SCHEMA_VERSION>1.5</SCHEMA_VERSION>
    </INTERFACE_SPECIFICATION>
    <PRODUCTION_DATE>2023-05-03T06:20:27.533Z</PRODUCTION_DATE>
    <PRODUCER>CSC</PRODUCER>
    <CONFIDENTIALITY>
      <LEVEL>PUBLIC</LEVEL>
      <VISIBILITY>ALL</VISIBILITY>
    </CONFIDENTIALITY>
  </HEADER>
  <DATA>
    <REQUEST_DATE>2023-05-04T00:00:00Z</REQUEST_DATE>
    <TOTAL_NUMBER_OF_OBS>1</TOTAL_NUMBER_OF_OBS>
    <NB_MAX_OF_OBS_PER_DAY>1</NB_MAX_OF_OBS_PER_DAY>
    <TOO_TYPE>ToO-NOM</TOO_TYPE>
    <OBSERVATION>
      <OBS_TYPE>ToO-NOM-AT</OBS_TYPE>
      <SOURCE_CHARS>
        <SVOM_DB_OBJECT_ID>ToO_575</SVOM_DB_OBJECT_ID>
      </SOURCE_CHARS>
    </OBSERVATION>
  </DATA>
</TOO-REQUEST>
</xml>
```

ToO request content



Check submitted ToO-MM tiling

The submitted ToO-MM tiling is shown in the “**SUBMITTED TILING**” subpage.

The screenshot shows the SVOM Science User Support System interface. The main navigation bar includes links for SVOM CSC, SVOM STATUS, SVOM DATA, SUSS HOME, NEWS, OBSERVING WITH SVOM, HELP, TOO_SCIENTIST_CN, and LOG OUT. The 'SUBMITTED TILINGS' tab is selected and highlighted with a red box. Below the tabs, the 'TOO_REQUEST List' is displayed with a total of 1 request. A table with the following data is shown:

ID	REQUEST DATE	FILE NAME	OBS_TYPE	BEGIN	END	TARGET NUMBER
179	2023-05-04T00:00:00Z	SVOM_ToO_NO_20230504T0000_0_20230505T000000_20230503T062027_1.xml	ToO-NOM			1

The text 'tiling list' is written in red and enclosed in a red box. The 'ARCHIVE' button is also highlighted with a red box. The page includes a search bar and pagination controls showing 1 item per page and a total of 10 items.

Submitted tiling

Check ToO-MM list

The all ToO-MM (GW events) are listed in the “**TOO-MM LIST**” subpage.

The screenshot displays the SVOM Science User Support System interface. The header includes navigation links: SVOM CSC, SVOM STATUS, SVOM DATA, SUSS HOME, NEWS, OBSERVING WITH SVOM, HELP, TOO_SCIENTIST_CN, and LOG OUT. The main content area features a sidebar with a menu icon (highlighted by a red box) and a search bar. The 'TOO-MM LIST' tab is selected and highlighted by a red box. Below the tabs, the 'TOO_REQUEST List' is shown with a total of 1 request. The table contains the following data:

ID	REQUEST DATE	FILE NAME	OBS_TYPE	BEGIN	END	TARGET NUMBER
179	2023-05-04T00:00:00Z	SVOM_ToO_NO_20230504T000000_20230505T000000_20230503T062027_1.xml	ToO-NOM			1

An 'ARCHIVE' button is located below the table. A red box highlights the 'tiling list' annotation pointing to the table.

ToO-MM

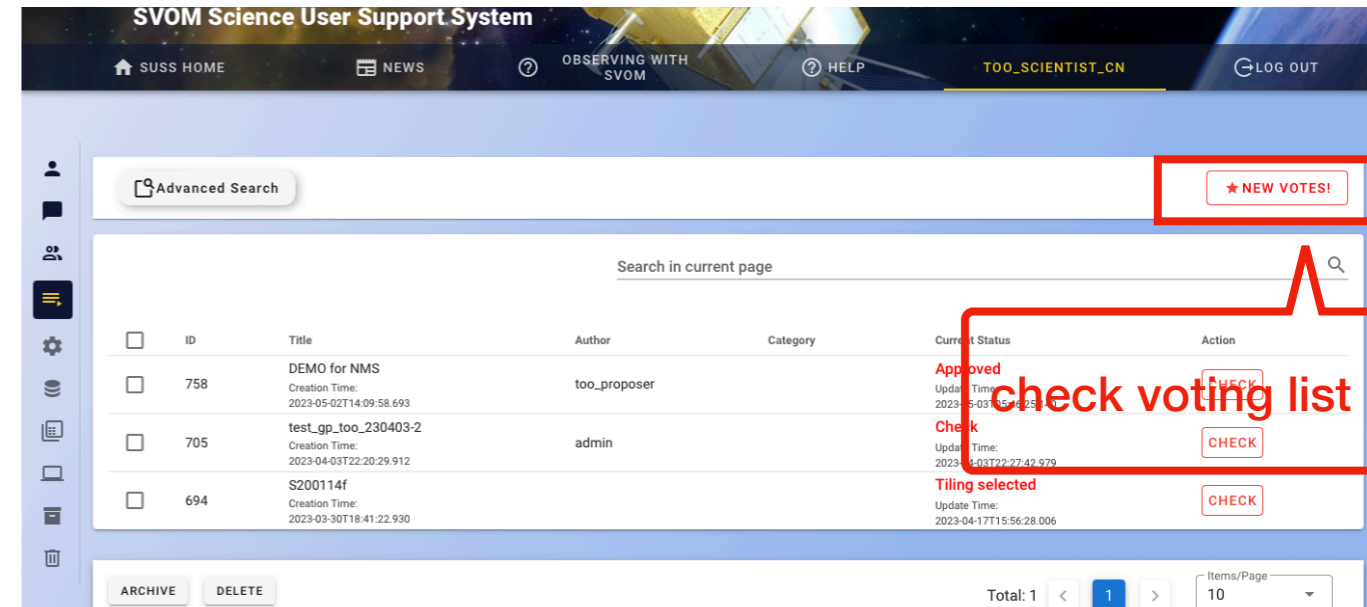
PI can join the discussions on proposal approval, and make decisions by using vote tool. In ToO tools, PI has same access as ToO scientist does.

For PI

In this manual, we give instructions for voting functions. For other functions, please check the ToO scientist's part.

Voting

The vote tool can be access from the vote list page



Access voting list from the “proposal management page”

Cast a vote. Three options are given:
“Vote”, “Against” and “Abstain”

The screenshot shows the SUSS TOO interface. At the top, there is a navigation bar with links for SUSS HOME, NEWS, OBSERVING WITH SVOM, HELP, TOO_SCIENTIST_CN, and LOG OUT. Below the navigation bar, there is a section for a target list. The target list is titled "Target List" and has a "Fold" toggle. The table below contains the following data:

SOURCE ID	OBS TYPE	EVENT NAME	RA (J2000)	Dec (J2000)	EXP TIME (VT)	WINDOW (VT)	INTERVAL (VT)	SPEED (VT)	CHANNEL (VT)	CLEANING (VT)	STA BILITY	MOON CHECK	REQUESTED OBS DURATION
> GB6-J1700+6830	ToO-NOM-AT		255.03873	68.50193	5	500	1	1	0	0	HIGH	VT	1

Below the target list, there is a "Vote" section. The "Vote" section shows the user "too_scientist_cn" and the date "2023-05-03T09:57:03Z". The "Vote" section has three radio buttons: "Vote", "Against", and "Abstain". A red box highlights the "Vote" radio button, and a red callout box with the text "cast a vote" points to it. Below the "Vote" section, there is a "Comment" section with a text input field. At the bottom of the page, there are "Back" and "Submit" buttons.

Vote tool interface

The voting result can be found either from proposal review page (the upper figure) or from the vote list page (the lower figure)

Target List: Fold

SOURCE ID	OBS TYPE	EVENT NAME	RA (J2000)	Dec (J2000)	EXP TIME (VT)	WINDOW (VT)	INTERVAL (VT)	SPEED (VT)	CHANNEL (VT)	CLEANING (VT)	STABILITY	MOON CHECK	REQUESTED OBS DURATION
GB6-J1700+68 30	ToO-NOM-AT		255.03873	68.50193	5	500	1	1	0	0	HIGH	VT	1

Approval

Approve

Comment:

voting result

Open voting page

SVOM Science User Support System

SVOM CSC SVOM STATUS SVOM DATA

SUSS HOME NEWS OBSERVING WITH SVOM HELP TOO_SCIENTIST_CN LOG OUT

Vote List

ID	Title	Author	Category	Current Status	Action
34	DEMO for NMS	too_proposer	ToO-NOM-AT	Vote Update Time: 2023-05-03T04:37:54Z	<input type="button" value="CHECK"/>

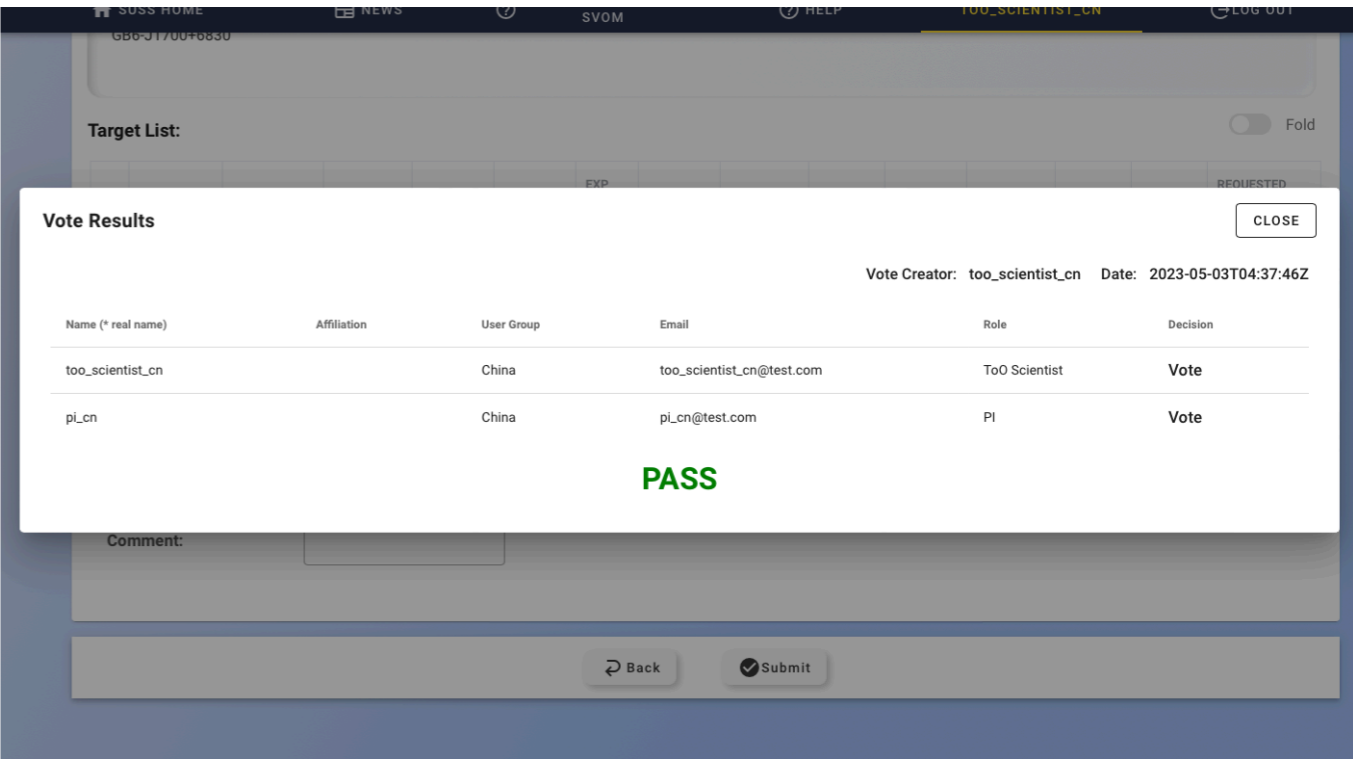
Back to Proposal List

Total: 1 < 1 > /Page

check voting result

Voting result

The voting result is given in a window. The proposal approval result is not necessarily decided by the voting. Instead the ToO scientist make approval based on the voting.



Voting result

To be continue.....

Thanks for your patience!