

Singular Caster Software User Manual

Singular Caster Software User Manual

Introduction

Thank you for choosing SingularXYZ Converter software. This article will provide information about the installation and use of the software. It will guide you to successfully complete the data transmission.

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If you have any problems that cannot be solved while using this manual, please contact your local SingularXYZ distribution partner or seek technical support from SingularXYZ Intelligent Technology Ltd.

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Chapter 1 Introduction

Singular Caster software is a service software, developed by Shanghai SingularXYZ Intelligent Technology Ltd, which is mainly responsible for receiving and sending differential data, and managing the data transmission between base stations and rover stations.





💮 SingularXYZ Ntri	p Caster System						- 🗆 ×
Configuration	Restart Software regi	stration IP black	list EN/CN				
2	User type Base station	Account		uery Add Del	ete Modify user in	fo Modify restrictio	n info
	Serial number	User name	Registration time	Contact person	Phone	Email	Co
Base station							
Rover		Prev	Next Last	Jump	to 0 Pages, 0 Record	5.	
O	Runtime information						
\bigcirc							
Account							

This document describes how to install and use the software. Please read this document carefully.

Chapter 2 Installation

2.1 Configuration requirements

CPU: Dual-core, main frequency of 1.7GHz or more

Operating system: Windows server 2019 or later

System type: 64-bit

RAM: 6GB or above

ROM: more than 40G SSD

Bandwidth: 1M supports simultaneous online data transmission from 35 sites

Port: required 2 ports. One is 8000, which is the software login port, and the other is userdefined, which is the data transmission port

2.2 Installation procedure

Installation Components

- 1、Postgresql Database
- 2、 Singular Caster Server
- 3、 Singular Caster Client



2.2.1 Postgresql Database installation

• Double-click postgeresql-15.3-1-windows-x64 installer to enter the installation wizard interface.



• Click Next to select the database installation location.

Installation Directory		
Please specify the directory where PostgreSQL will be installed.		
Installation Directory C:\Program Files\PostgreSQL\15		

• Select the PostgreSQL Server and Command Line Tools components and click Next.



• Select the database data catalogue.

Data Directory Please select a directory under which to store your data. Data Directory Program Files\PostgreSQL\15\data		
Please select a directory under which to store your data. Data Directory Program Files\Postgre <mark>SQL\15\data</mark>		
Data Directory Program Files\Postgre <mark>SQL115\data</mark>		
VMware InstallBuilder	NT	Grand

• Enter database password: t6yeb3.

🐳 Setup			-		×
Password					
Please provide a password for the databa	ase superuser (po	stgres).			
Password					
Retype password					
Www.me.TostallBuilder					
FIRST NAL N. SAARAY SI NAMARAY NA A NAVA	< Back	Ne	xt >	Can	cel

• Set the port number of the database service to 5432.

Setup		-		×
Port				
Please select the port number the server shoul	d listen on.			
Port 5432				
fware InstallBuilder				
	< Back	Next >	Cance	el

• Click Next.

	_		×
Advanced Options		ļ	
Select the locale to be used by the new database cluster. Locale [Default locale] 🗸			
VMware InstallBuilder Kack No	xt >	Cano	el

• Start installing the database and wait for it to complete.

2.2.2 Singular Caster server installation

• Double-click Singular Caster Service-setup.exe installation package to select the installation path.

Setup - SingularPointCasterService version 0.7.1.1	-	
elect Destination Location		F
Where should SingularPointCasterService be installed?		(10
Setup will install SingularPointCasterService into the follo	wina folder.	
	aliala Pasauras	
Continue, dick Next. If you would like to select a different fold Continue, dick Next. If you would like to select a different fold Continue, dick Next. If you would like to select a different fold	Prowse.	
c. Program Files (X80) Singular Pointeaster Service	browse	•••
At least 20.2 MB of free disk space is required.		

• Click Next.

🎡 Setup - SingularPointCasterService version 0.7.1.1 –	_		\times
Select Start Menu Folder Where should Setup place the program's shortcuts?			
Setup will create the program's shortcuts in the following Start	Menu	folder.	
To continue, click Next. If you would like to select a different folder, clic	k Brow	se.	
SingularPointCasterService	Bro	wse	
Back Next		Cano	cel

• Click Next and wait for the installation to complete

2.2.3 Singular Caster client installation

• Double-click the Singular Caster Client-setup.exe installation package to enter the software installation wizard interface.

🏽 Setup - SingularPointClient version 0.7.1 —		\times
Select Additional Tasks Which additional tasks should be performed?		Ĵ
Select the additional tasks you would like Setup to perform while installing SingularPointClient, then click Next.		
Additional shortcuts:		
Create a desktop shortcut		
Next	Cance	I

• Click Install and wait for the installation to complete.

Setup - SingularPointClient version 0.7.1	_		-
eady to Install Setup is now ready to begin installing SingularPointClient of	on your computer.	L Cal	(10)
Click Install to continue with the installation, or dick Back i change any settings.	f you want to revie	w or	
Additional tasks: Additional shortcuts: Create a desktop shortcut		^	
<		>	
Bark	Install	Canc	el

Chapter 3 Software interface

3.1 Login software

• Opens the software, and the login page is displayed



• Click the Settings button in the lower right corner to enter the login Settings interface



• Enter IP:127.0.0.1, Port:8000, and click Confirm



• Enter user name: singularxyz, password: singularxyz on the login interface, and click Login



3.2 Configuration software

• After logging in the software, click the Configuration button

Configuration Restart S	oftware registrati	ion IP blacklist	EN/CN A	bount
Mount P	Point			
Seri	ial number 🛛 🕅	Mount Point	Service type	0
Base station				

• Enter the custom data transfer port in the caster port, and click Save. After the configuration is successful, close the dialog box and restart the server

٢		- ×	الله Prompt	— ×
Caster Port	20	020		
Anonymous			configure Caster successfully, please re	estart service
	Save	Cancel		

Anonymous Access: after the configuration, users can access the system anonymously, and administrators do not need to create related accounts for users

• Click the restart button in the main interface, in the pop-up dialog box, click Yes



Tip: Server refers to the server side of the software, not the cloud server

• Wait for the server to restart, close the message indicating that the restart is successful, close the software, and log in again



3.3 software registration

• Click the software Registration button on the toolbar

الله SingularCaster						
Configuration	Restart	Software reg	istration IP black	list EN/CN A	bout	
2	Mour	nt Point				Query Details
		Serial number	Mount Point	Service type	Online status	Cumulative online time
Base station						
_						
Rover						
Q						
\bigcirc						
Account				Prev	ext Last	1/1 Jump to

• Enter the registration code on the software registration interface, and then click Register



Tips: You can check the registration status by clicking the Software registration or about button in the toolbar



3.4 Main interface introduction



Menu: software setup and data transfer control

Toolbar: add, query, modify, and delete user information

Management: switch base station, rover, accounts to operate

Status Display: displays information about base stations, rover, and accounts Information Display: record device online and offline information in real time

Chapter 4 Use of software functions

4.1 Menu

Configuration	Restart	Software registration	IP blacklist	EN/CN	About			
Configuratio	n: configure	e the port of the client and	anonymous acc	ess				
Restart: restart the server side of the software								
Software reg	Software registration: enter the registration code to register the software							
IP blacklist:	IP blacklist: add the IP address to the blacklist and prohibit its connection							
EN/CN: swit	EN/CN: switch software display language							
About: softw	vare version	, registration and company	v information					

4.2 Management

4.2.1 Base station management

	Mount Point				Query Details			
P)	Serial number	Mount Point	Service type	Online status	Cumulative online time	Number of rovers	Amount of sent data	Online time
Base station								
Rover								
0								
Account			Prev	Next La:	st Jur	np to 0 Pages, 0 Re	cords.	

Toolbar

Mount point: the name of the uploaded base station

Query: enter the mount point to query user information

Details: select any base station, you can query the mount point, base station coordinates, number of rover, IP and online time

Status Display

Mount Point				Query Details				
Serial number	Mount Point	Service type	Online status	Cumulative online time	Number of rovers	Amount of sent data	Online time	
				10hour 50minute		152248	2023-10-19 16:14:41	

Mount point: base station name

Service type: types of differential data Online status: base station on-line status Cumulative online time: total hours of base station online Number of rovers: total number of rover stations connected to the base station Amount of sent data: total amount of data sent by the base station Online time: time when the base station was last online

4.2.2 Rover management

	Mount Point		Rover user name		Query	Details			
	Serial number	User name	Mount Point	Data speed	Amount of received data	Online time	Cumulative online time	Positioning status	Jumber of satellit
Base station									
Rover									
0									
ŏ									
Account			Prev	Next Las		mp to 0 Pages, 0 I	Records.		

Toolbar

Mount point: the name of the uploaded base station

Rover user name: user name of the connected rover station

Query: enter mount point or rover user name to query information about online rovers

Details: select any rover to query the mount point, base station coordinates, mobile station coordinates, online time and distance from the base station

Status Display



User name: rover station name

Mount point: name of the connected base station

Data speed: rover station data transmission speed

Amount of received data: total amount of data sent by the base station

Online time: time when the rover station was last online

Cumulative online time: total hours of rover station online

Positioning status: rover station positioning status

Number of satellites used: the rover station calculates the number of satellites

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4.2.3 Account management

	User type Base station	Account	Qu	ery Add	Delete Modify use	r info Modify restrictio	on info	
	Serial number	User name	Registration time	Contact person	Phone	Email	Company	Limit
Base station								
Rover								
Account			Prev	Next Las		Jump to 0 Pages, 0 Re	cords.	

Toolbar

User type: select base station, rover, and administrator from the drop-down list

Account: enter the account name you used to register

Query: query user information based on user type and account

Add: add base station, rover and administrator; enter the user name, password, contact person, phone number, email address, and company name

Delete: delete registered user information

Modify user info: modify the basic information of any user

Modify restriction info: add date restriction, time restriction and region restriction to any user

Serial number	User name	Registration time	Contact person	Phone	Email	Company	Limit
							remaining duration :5 hour

According to the user type, serial number, user name, registration time, contact person, phone, email, company and restriction information are displayed

4.3 Information display

Runtime information ntrip serverthesel login ntrip serverthesel login ntrip client:rover5 login ntrip rover:rover5 logout ntrip serverthasel logout ntrip serverthase3 logout
ntrip serverthasel login ntrip serverthasel login ntrip clienturover5 login ntrip rover:rover5 logout ntrip server:basel logout ntrip server:base3 logout

Real-time display of base stations, rovers on-line and off-line, etc.

Chapter 5 Data upload

After completing the relevant configurations of the software, we can upload rover and base stations to the software. This section will detail the different ways to upload data

5.1 Create account

Select the account on the management, click the Add button, select the type of user you need to add, fill in the relevant information, click Register, and then close the prompt of successful registration.

الله SingularCaster							
Configuration	Restart S	oftware regi	stration IP blackl	ist EN/CN A	bout		
2	User type	e Administrate	or 🔽 Account		Query Add	Delete M	odify user info
	Ser	ial number	User name	Registration time	Contact person	Phone	Emai
Base station							
_							
Rover							
Q							
Account				Draw		1/1	
				Piev	Last	Junp	Atotal of T
	_	$-\times$			- ×		$-\times$
User Type	Base Station	•	User Type	Rover	▼ User Type	e Administra	tor 🔻
Password			Password		Password	2	
Contact Person			Contact Person		Contact P	erson	
Phone			Phone		Phone		
email			email		email		
Company			Company		Company		
Registration		Cancel	Registration	Cance	el Registra	tion	Cancel
		ی کھی ا	Prompt ation is successful		- ×		

Note: If you set up anonymous access, you don't need to create base and rover account

5.2 Upload data

5.2.1 Upload base station data

5.2.1.1 Web interface

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• Log in to the web interface of the device (for example SV100), click Data Transmission, select NTRIP Server, and click Config to access the configuration interface

Singular XYZ	Ξ Data Transmission			
Device Information ~	Data Transmission	Overview		
\otimes Device Configuration \sim	Туре	Port	Stream	Config
Work Management	СОМ		NMEA-0183	Config
Data Transmission	тср	8090	NMEA-0183	Config
Data Recording			RTCM32	Config
File Download				Config
Device Control	NTRIP Server	0:0	RTCM32	Config
Firmware	NTRIP Client	112.64.109.145:8181	base2	Config
	NTRIP Caster	25001		Config
	Radio		RTCM32	Config

• In the interface, input the IP and Port of the server, the user name of the base station registered in the software, the password and the mount point ,then click true and ok.



Note: The user name and mount point must be the same. If they are different, the upload fails

• If the NTRIP Server is green after the configuration, it indicates that the configuration is successful and the singular caster software displays the online information

Singular XYZ	Data Transmission			
Device Information	Data Transmission	Overview		
\otimes Device Configuration \vee	Туре	Port	Stream	Config
🖶 Work Management 🗠	СОМ		NMEA-0183	Config
Data Transmission	тср	8090	NMEA-0183	Config
Data Recording	тср	1121	RTCM32	Config
File Download				Config
Device Control				Config
Firmware	NTRIP Client	112.64.109.145:8181	base2	Config
	NTRIP Caster	25001		Contig
	Radio		RTCM32	Config

SingularXYZ Ntrip Ca	estart Software rec	gistration IP blac	klist EN/CN					
	Mount Point				Query Details			
	Serial number	Mount Point	Service type	Online status	Cumulative online time	Number of rovers	Amount of sent data	Online time
Base station					5hour 58minute			2023-10-26 18:03:33
Rover								
Q								
Account			Prev	ext Last	1/1 Jump to	A total of 1 pages, a 1	total of 1 data	N.
	Runtime information	gin 🚽						

5.2.1.2 SingularPad software

• Open singularpad software, connect the device(for example X1), enter the Base setting interface, select the Device Internet, input the server IP address, Port and password, click ok and input Base access point, then click Set Base Startup

\leftarrow Base mod	le settings		← Parameter Setting	gs	\leftarrow Base mod	e settings	
Base Setup Para		97	Device Internet		Base Setup Para		
Base ID:	Diff Mode	RTCM3.2 >	Connect Mode	NTRIP >	Base ID:123	Diff Mode:	RTCM3.2 >
Start Up Mode		Single Point $>$	CORS Settings	2	Start Up Mode		Single Point $>$
Datalink Settings		N	IP	112.64.109.145	Datalink Settings		
Data Link		Device Internet \rightarrow	Port	8181	Data Link		Device Internet >
Connect Mode:NT IP:0.0.0.0	TRIP Server Po	rt:8080 >	Password	····· ©	Connect Mode:NT IP:112.64.109.145	RIP Server Por	t:8181 >
Password:*****			APN Settings	2°	Password:*****		
Base access point		1823E0005	Name	3gnet	Base access point		base2
			User				
			Password	0			
							λ
							$\langle \rangle$
Share	Collection	Set Base Startup	ок		Share	Collection	Set Base Startup

• Online information is available on the Singular caster software

Online status	Cumulative online time 1hour 23minute	Number of rovers	Amount of sent data	Online time

5.2.1.3 SingularSurv software

• Open singularsurv software, connect the device (for example Y1), enter the Base setting interface, select the Internet GSM, input server IP, Port, BaseName, User and Password, click Confrim, Save, and Apply



Online information is available on the Singular caster software

🍈 SingularXYZ Ntrip Ca	aster System							
Configuration Re	estart Software reg	istration IP black	list EN/CN					
	Mount Point				Query Details			
	Serial number	Mount Point	Service type	Online status	Cumulative online time	Number of rovers	Amount of sent data	Online time
Base station		base3		online	6minute 32second			2023-10-26 17:48:52
Rover								
O								
0			н ————————————————————————————————————		· · · · · · · · · · · · · · · · · · ·			
Account			Prev	lext Last	1/1 Jump to	A total of 1 pages, a	total of 1 data	
	Runtime information							
	ntrip server:base3 log	in						

Note: The Singular caster software supports up to 3 base stations online at the same time without registration

5.2.2 Upload rover station data

5.2.2.1 Web interface

 Log in to the web interface of the device (for example X1), click Data Transfer, select NTRIP Client, and click config to enter the configuration interface

SingularXYZ	Data Transmission			
Device Information	Data Transmission	Overview		
 \bigotimes Device Configuration \lor	Туре	Port	Stream	Config
😡 Work Management 🛛 🔿	сом		NMEA-0183	Config
Data Transmission	тср	0.0.0.0:0	Observation Data	Config
Data Recording	тср		NMEA-0183	Config
File Download	NTRIP Server	0:0	RTCM32	Config
Device Control	NTRIP Server		RTCM32	Config
Firmware	NTRIP Client	0:0		Config
	NTRIP Caster			Config
	Radio		RTCM32	Config

• In the interface, input the IP address and Port of the server, the user name and password of the rover station registered in the software, click the refresh button, obtain and select the mount point, select Startup, and click ok.

NTRIP Clien				
Status:	Disconnected			
Startup:	2			
Caster Address:	112.64.109.145	Port:	8181	
User:	rover1			
Password:				
Mount Point:	base1 V	S	-	
	ок		Cancel	

• If the configured NTRIP Server is green, the configuration is successful and the singular caster software displays the online information.

🛞 SingularXYZ Ntr	ip Caster System							
Configuration	Restart Software registration IF	P blacklist EN/CN						
	Mount Point	Rover user name		Quer	y Details			
	Serial number User nar	ne Mount Point	Data speed	Amount of received dat	a Online time	Cumulative online time	Positioning status	Jumber of sate
Base station					2023-10-27 09:49:25			
Bover								
O								
0								
Account		Prev	ext Last	1/1 Jump to	A total of 1 pages, a	total of 1 data		
	Runtime information							
	ntrip client:rover1 login							

5.2.2.2 SingularPad software

 Open singularpad software, connect to the device (for example Sfaira ONE), enter the Rover setting interface, select the Phone Internet, input the server IP address, Port, user name and password, click ok and Get. After obtain MountPoint successfully, select the correct and click Start and Apply

← Rover mo	ode settings		← Parameter Sett	ings	\leftarrow Rover mode	settings
Datalink Setting	IS		Phone Internet		Datalink Settings	
Data Link		Phone Internet >	Connect Mode	NTRIP >	Data Link	Phone Internet >
Connect Mode:N IP:0.0.0.0 User:	NTRIP Server Port Password:*	t:8080 >	CORS Settings	112,64,109,145	Connect Mode:NTRIP IP:112.64.109.145 User:rover3	Server Port:8181 Password:*****
MountPoint Set	tings	Get	Port	8181	MountPoint Settings	Get
MountPoint		Office >	User	rover3	MountPoint	basel >
Receive data			Password		Receive data	
\bigcirc		Start			18918	Stop
Auto connect to	network	\bigcirc			Auto connect to netw	ork O
Base Coordinates close)	s Change Alert(VRS ;	please			Base Coordinates Cha close)	nge Alert(VRS please
Share				ок	Share C	Collection Apply

• Online information is available on the Singular caster software

💮 SingularXYZ Ntr	ip Caster Syst	em								- 0
Configuration	Restart	Software reg	istration IP blackli	st EN/CN						
	Moun	t Point		Rover user name		Quer	y Details			
		Serial number	User name	Mount Point	Data speed	Amount of received data	. Online time	Cumulative online time	Positioning status	lumber of satel
Base station			rover3 I	pase1						22
Power										
Kover										
O										
0										
Account				Prev	ext Last	1/1 Jump to	A total of 1 pages, a 1	total of 1 data		
	Runti	ime information								
		client:rover3 log	in Contract							

5.2.2.3 SingularSurv software

• Open the singularsurv software, connect the device (for example Y1), enter the Rover setting interface, select PDA CORS, input server IP, Port, User and Password, obtain and select Source List, click Confirm and Save, and then click Save and Apply

← Datalini	< type	← Rover		← Rover		← Rover	
Datalink type	PDA CORS >	Datalink type PDA	cors > C	arrent Mode: Rover-Nane		Current Made: Rover-None	
Protocol	CORS	Protocol CORS Port 112.64.109.145/8181		PDA CORS		PDA CORS	
	APN 🐼	Frequency 1Hz	, L	CORS://112,64,109,14	5:8181/base1	CORS://112.64.109.14	
Server	test 🔹 🔛	Mask angle		Default: RadioMode Internal radio: 6/460.0	1 JSOOMHz	Default: RadioMode Internal radio: 6/460.	3500MHz
DNS/IP address	112.64.109.145					Rover Config	
Port	8181					1 Connect Source List	~
Source List	basel - 🗸					2 Setup receiver parame	eters 🗸
User	rover2					Succeed!	
Password						Course List? Deser	ĸ
1021-1022							Will closed after 3 seconds.
1023-1024							
1025-1027							
Transfer correctio	··· No transfer >	/			7		
VRS	•						
	Confirm	Save		Add	Apply	Add	Apply

Online information is available on the Singular caster software

🍈 SingularXYZ Ntr	ip Caster System								
Configuration	Restart Software r	registration IP bla	cklist EN/CN						
	Mount Point		Rover user name		Queŋ	y Details			
	Serial number	User name	Mount Point	Data speed	\mount of received data	Online time	Cumulative online time	Positioning status	Jumber of satel
Page station		rover2							
base station									
T									
Rover									
\circ									
Ő									
Account			Prev	ext Last	1/1 Jump to	A total of 1 pages, a	total of 1 data		
	Runtime informatio	on							

Chapter 6 Restriction Function

6.1 IP Blacklist

• Click the name of the base station or rover station you want to restrict and click Details to check the IP address

ے) SingularCaster							
Configuration	lastant Caffruara va	vistuation ID bla		Aba			
Configuration K	estart Software re			About			
	Mount Point				Query	Details	
	Serial number	Mount Point	Service type	Online sta	tus Cumulat	tive online time Number of	of rovers
		singularxyz	RTCM3	online	5minute	22second 1	
Base station							
			٢		-	- ×	
				Mount Point sing	gularxyz		
			La	n of base station(L) 121	:17:23.550793		
Rover			Heigh	t of base station(H) 34.4	4835		
				Number of rovers 1			
Θ				IP 127	7.0.0.1		
Õ				Time online 202	4-01-21 14:59:39		
Account							
			Prev	Next		Jump to A total of	i pages, a t
	Runtime information						
	ntrip server:singular: ntrip client:test logi	nyz login .n					
ingularCaster							
Configuration	start Software regis	tration IP blackli		out			
	start Software regis			out			
2	Mount Point		Rover user name			Query Details	
	Serial number	User name	Mount Point	Data speed	Amount of recei	ved data Online time	Cumulat
	1 t	est s	singularxyz	11.525KB/S	203.858KB	2024-01-21 15:03:30	2minute -
Base station			٢		- ×		
			Mount Point	singularxyz			
			Lon of base static	on(B) 31:09:59.51800)7		
			Lat of base statio	n(L) 121:17:23.5507	793		
Rover			Lon of rover(B)	1:00:0.000000			
			Lat of rover(L)	1:00:0.000000			
\odot			Time online	2024-01-21 15	:03:30		
Ŏ			Distance from ba	se station 12814256			
Account			IP Address	127.0.0.1		A total of 1	a total of t
			Prev Ne	Last		A total of 1 pages, s	
	Runtime information						

• Click the IP blacklist in the toolbar, fill in the IP, click Add, close the Added Successfully prompt interface, you will see the added ip address below. After successfully added, devices using this IP are taken offline and not allowed to upload data to caster software

لي SingularCaster						
Configuration	Restart Software reg	istration IP black	list EN/CN A	bout		
2	Mount Point		Rover user name		Quer	у
	Serial number	User name	Mount Point	Data speed	Amount of received dat	
Base station		test	singularxyz	4.375KB/S	859.879KB	202
		<u></u>		- X		
		IP:	Ac	ld		
Rover						
\bigcirc						
Ö						
Account				Last	1/1 Jump to	A
	Runtime information					



Tip: You can also remove IP by selecting it, right-clicking and selecting Remove.



6.2 Rover station restrictions

6.2.1 Data limit

This function indicates that the rover station exceeds the limit date and cannot online

• Select the name of the rover station you want to restrict, click Modify restriction info and select Date Limit

الله المعنى SingularCaster											
Configuration Re	estart Software reg	istration IP blac	klist EN/		bout						
	User type Rover	- Account			uery Ad	d Del	ete Mod	ify user infe	Modify r	estrictio	n info
	Serial number	User name	Registrat	ion time	Contact p	person	Phone	•	Email		Company
Base station	1	rover1	2023-10-25 0	2:42:21	bom	9	6589456	98	8756@singular	xyz.com	singularxyz
Base station			٢						$-\times$	ılarxyz	singularxyz
		rover4	Date Limit	Time Limit	Regional Res	strictions					singularxyz
\square		rover6	Set the las	date of con	nection to Caster	+ 8 2024					singularxyz
		use2				T-H, 2024					2
Rover			28	29	30	31	1				3
		nctest30									ABC
Ο											ABC
Ň			"	12	13	14	15				100
			18	19	20	21	22				
Account			~	26	27	20	20	20		jes, a to	otal of 7953 data
	Runtime information		2.7	20	27	20	29	30	'		
								Save	Cancel		

• Tick the box in front of Set the last date of connection to Caster, select a limited date below, and click Save

٢						$-\times$
Date Limit	Time Limit	Regional Res	trictions			
🗹 Set the las	t date of conne	ction to Caster				
÷			—月,2024			•
25	26	27	28	29	30	31
1	2	3	4	5		7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26		28
29	30	31	1	2	3	4
					Save	Cancel

6.2.2 Time limit

This function indicates that the total online time of the rover station exceeds the set value and cannot online

• Select the name of the rover station you want to restrict, click Modify restriction info and select Time Limit

الله SingularCaster										
Configuration Re	estart Software reg	istration IP black	list EN/CN	I At	oout					
	User type Rover	Account		Qu	iery Add [Delete M	lodify user ir	nfo Modify r	estrictio	on info
	Serial number	User name	Registration	time	Contact person	Ph	one	Email		Company
		rover1	2023-10-25 02:4		bom	96589456		98756@singular	xyz.com	singularxyz
Base station		rover2	÷					- ×	larxyz	singularxyz
		rover4	Date Limit T	'ime Limit	Regional Restrictions					singularxyz
		rover6	Set the total duration of connection to Caster						singularxyz	
		use2	Kemaining dura	tion 4.99		Hour				
Rover			Append dura	lion		110ul				
		nctest30								ABC
\bigcirc		nctest31								ABC
ň										
Account									jes, a te	otal of 7953 data
	Runtime information									
							Save	Cancel		

• Tick the box in front of Set the total duration of connection to Caster, and fill in the time to be added after Append duration. Remaining duration shows the total remaining online time of the current rover station, then click Save.

<u>چ</u>					$- \times$
Date Limit	Time Limit	Regional Restriction	s		
Set the to	otal duration o	of connection to Caster			
Remaining d	uration 4.99		Hour		
Append d	uration 10		Hour		
				Save	Cancel

6.2.3 Regional restrictions

This function indicates that the location of the rover station is beyond the range of the set area and cannot online

• Select the name of the rover station you want to restrict, click Modify restriction info and select Regional Restrictions

ے﴾ SingularCaster										
Configuration Restart Software registration IP blacklist EN/CN About										
- 9	User type Rover	- Account		Query Add E	Delete Modify user i	info Modify r	estrictio	n info		
	Serial number	User name	Registration time	Contact person	Phone	Email		Company		
		rover1	2023-10-25 02:42:21	bom	96589456	98756@singular	xyz.com	singularxyz		
Base station		rover2	۲			- ×	larxyz	singularxyz		
		rover4	Date Limit Time Limi	t Regional Restrictions				singularxyz		
		rover6	Canable circular area restriction L coordinate of the centre point 0:00:0.000000 B coordinate of the centre point 0:00:0.000000					singularxyz		
		use2								
Rover			Radius(km) 500							
		nctest30								
0		nctest31						ABC		
Ň										
Account							ges, a to	otal of 7953 data		
	Runtime information									
					Save	Cancel				

• Tick the box in front of Enable circular area restriction, fill in the information after L coordinate of the center point, B coordinate of the center point and Radius and click Save

۲. Constant of the second s		$- \times$
Date Limit Time Limit Regional Restrictions		
Enable circular area restriction		
L coordinate of the centre point 121:12:15.360000		
B coordinate of the centre point 31:09:15.091500		
Radius(km) 500		
	Save	Cancel

Tips: You can view the added restrictions on rover in your account

	User type Rove	er 🗸 A	ccount	Query	Add De	ete Modify user info	Modify restriction info	
A.	Serial number	User name	Registration time	Contact person	Phone	Email	Company	Limit
					96589456	98756@singularxyz.com	singularxyz	
Base station					85463127	8796410a@singularxyz.com	singularxyz	remaining duration :10.00 hour
						amy582@singularxyz.com	singularxyz	area limit:2:00:0.000000,2:00:0.000000,radius10
						qin864@gmail.com	singularxyz	
Rover								
\odot								
Ŏ								
Account			Prev	Next	Last 1/2	66 Jump to A total o	of 266 pages, a total of 79	954 data

If you want to remove the restrictions on rover stations, you can uncheck the corresponding box in the place where the restrictions are set, and then click Save.



