



- **TSUN Monitoring and Management Portal**



V1.0  
23/09/26

# TSUN Monitoring and Management Portal

## Guidance

- Tsun suggest distributor to create their own account.
- If Distributors **create, manage and edit** their own accounts, Tsun will not intervene in management.
- **Please use the management email to create your organization account.**
- Distributors can choose to let your installer create their own account or help installer create an account

## If Distributor Create Installer account : (Account Belong To Distributor)

Distributor can assist in managing the installer account

Distributor can check all the power plants created by the installer

## if Installer Create Themselves : (Account Belong To Installer)

Installer need manage it themselves

Installer needs to authorize distributor the power plants that installer created in order for distributor to check the plants

# Login Interface

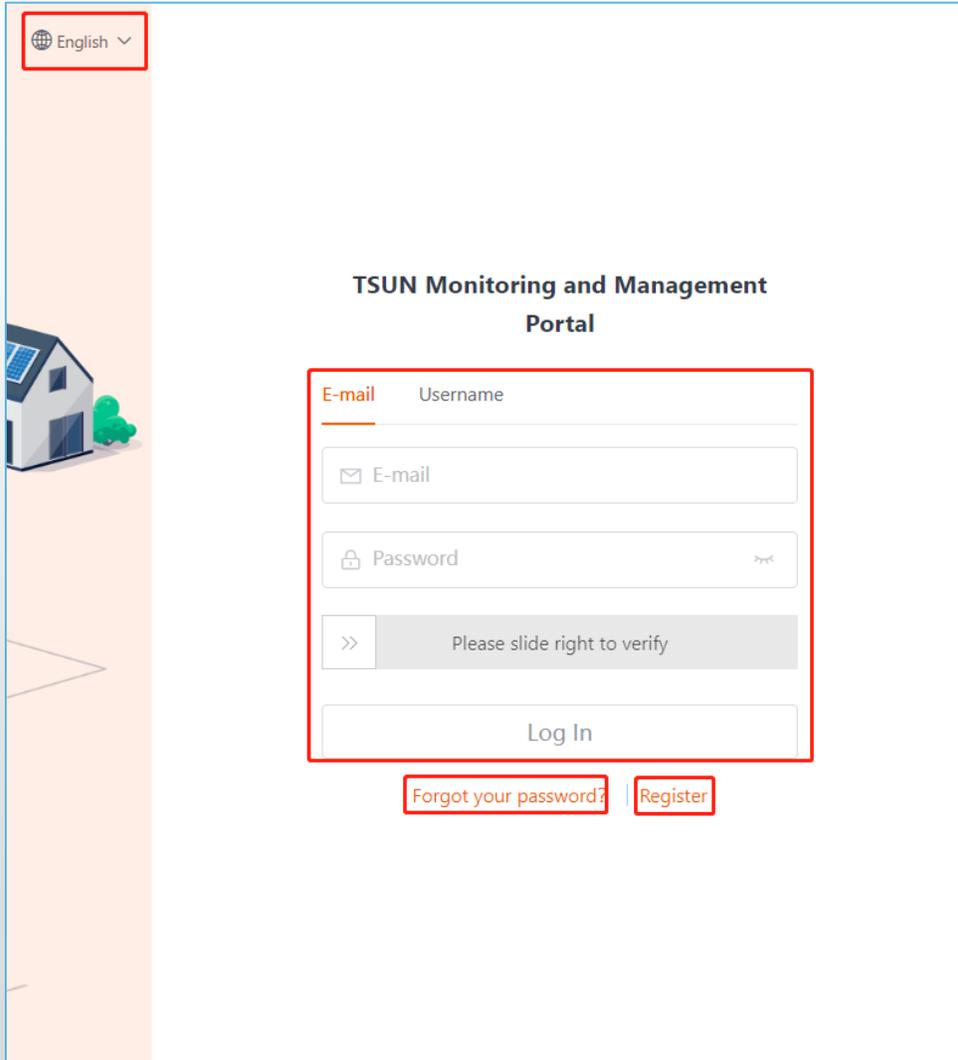


The image displays the login interface for the TSUN Monitoring and Management Portal. The interface is divided into two main sections: a large illustration on the left and a login form on the right.

**Illustration Section:** The illustration depicts a smart energy grid. At the top, there are wind turbines and solar panels. Below them, a server rack is connected to a central industrial facility with a large blue tank and a smokestack. To the right, a residential house with solar panels is shown. At the bottom, there are modern city buildings and a charging station with several electric cars. The TSUN logo is in the top left corner, and a language selector (English) is in the top right corner.

**Login Form Section:** The form is titled "TSUN Monitoring and Management Portal". It includes a radio button for "E-mail" (selected) and a radio button for "Username". Below these are input fields for "E-mail" and "Password". A "Please slide right to verify" button is located below the password field. A "Log In" button is positioned below the verification button. At the bottom of the form, there are links for "Forgot your password?" and "Register".

Current Version: v1.0 | Recommended: Chrome58+, Firefox49+ | [Privacy Strategy](#)



English	Change language
E-mail Username E-mail Password Please slide right to verify	Email Password Slide To Verify
Forgot your password?	Forget & Change password
Register	Register new account

 Registered Enterprise Already have an account? [Log In](#) [English](#) 

1 Fill in E-mail ————— 2 Perfect Account Information 3 Perfect Enterprise Information 4 Registered

Notice: If your enterprise has been registered in the system, you do not need to register again. Please contact the administrator of your enterprise to add you as an enterprise employee in the system.

**\* E-mail**

>> Please slide right to verify

**\* Verification Code**

I have read and agreed [《T&Cs》](#) [《Privacy Strategy》](#)

- 1 Fill in E-mail ————— 2 Perfect Account Information 3 Perfect Enterprise Information 4 Registered

Notice: If your enterprise has been registered in the system, you do not need to register again. Please contact the administrator of your enterprise to add you as an enterprise employee in the system.

\* E-mail



Please slide right to verify

\* Verification Code

I have read and agreed [《T&Cs》](#) [《Privacy Strategy》](#)

Fill in the base info and verification code

tsun Registered Enterprise Already have an account? Log In English

1  Fill in E-mail — 2  Perfect Account Information — 3  Perfect Enterprise Information — 4  Registered

\* Name

Username

\* Password

\* Please confirm

Fill the info and click next

tsun Registered Enterprise Already have an account? Log In English

✓ Fill in E-mail ——— ✓ Perfect Account Informati **3** Perfect Enterprise Informa 4 Registered

Enterprise Name: 简体中文 Tsun Asia

+ Add

Enterprise Area: China

Type:  Installation O&M Provider  Investors  Distributeur

Next

Fill the info, select your company type and click next (Distributer)

# Create account

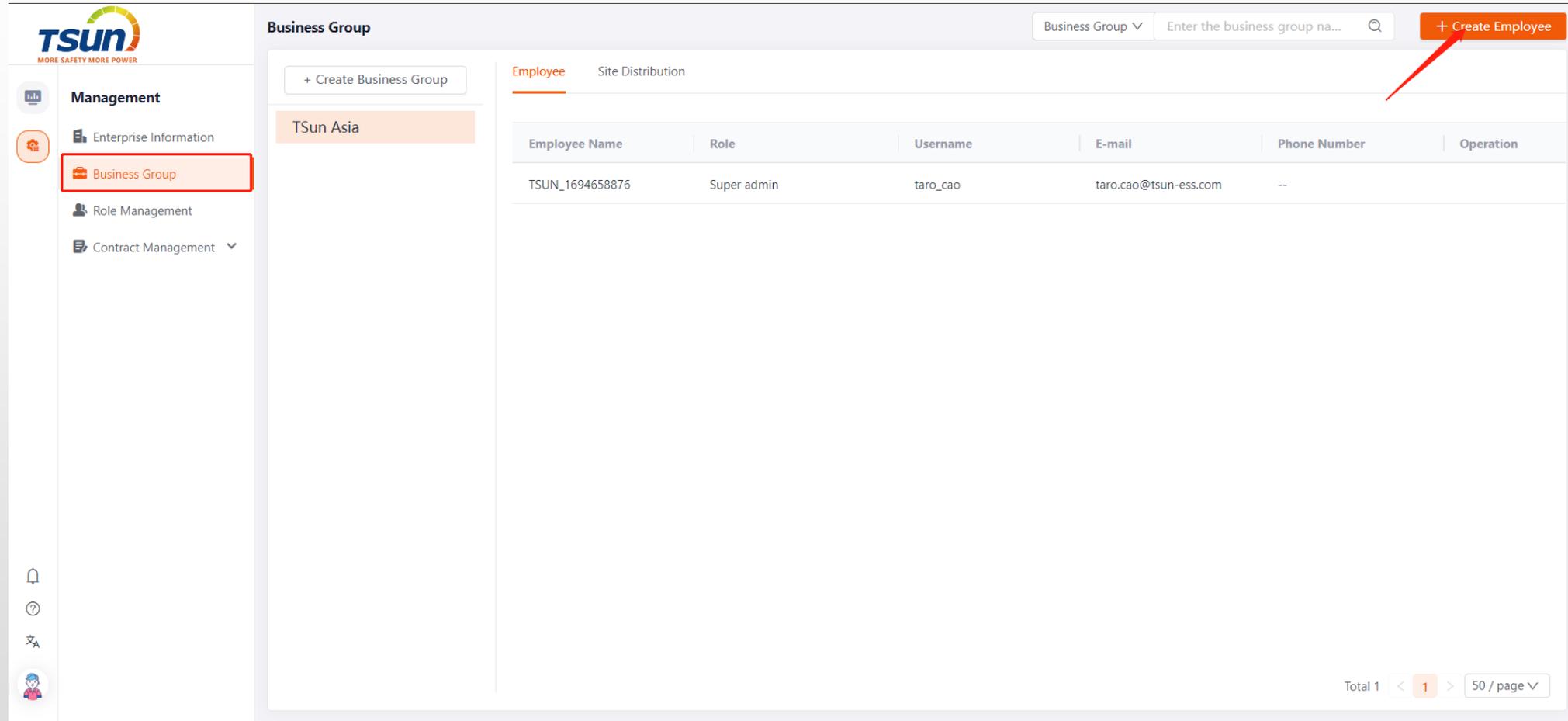
tsun Registered Enterprise Already have an account? Log In English

✓ Fill in E-mail ——— ✓ Perfect Account Informati ✓ Perfect Enterprise Informa **4** Registered

**New enterprise created!**

[Done and logged in](#)

Registered is done, click “Done and Logged in”



**Business Group** Business Group ▾  🔍 + Create Employee

+ Create Business Group

**Employee** Site Distribution

Employee Name	Role	Username	E-mail	Phone Number	Operation
TSUN_1694658876	Super admin	taro_cao	taro.cao@tsun-ess.com	--	

Total 1 < 1 > 50 / page ▾

This is your Business Group  
You can add/ Create Employee

# Create Employee

## Create Employee

Cancel

Save



E-mail

\* Employee Name

Taro

\* E-mail

taro.cao@tsun-ess.com

Username

Taro1

\* Password

TSUN1234

Business Group

TSun Asia

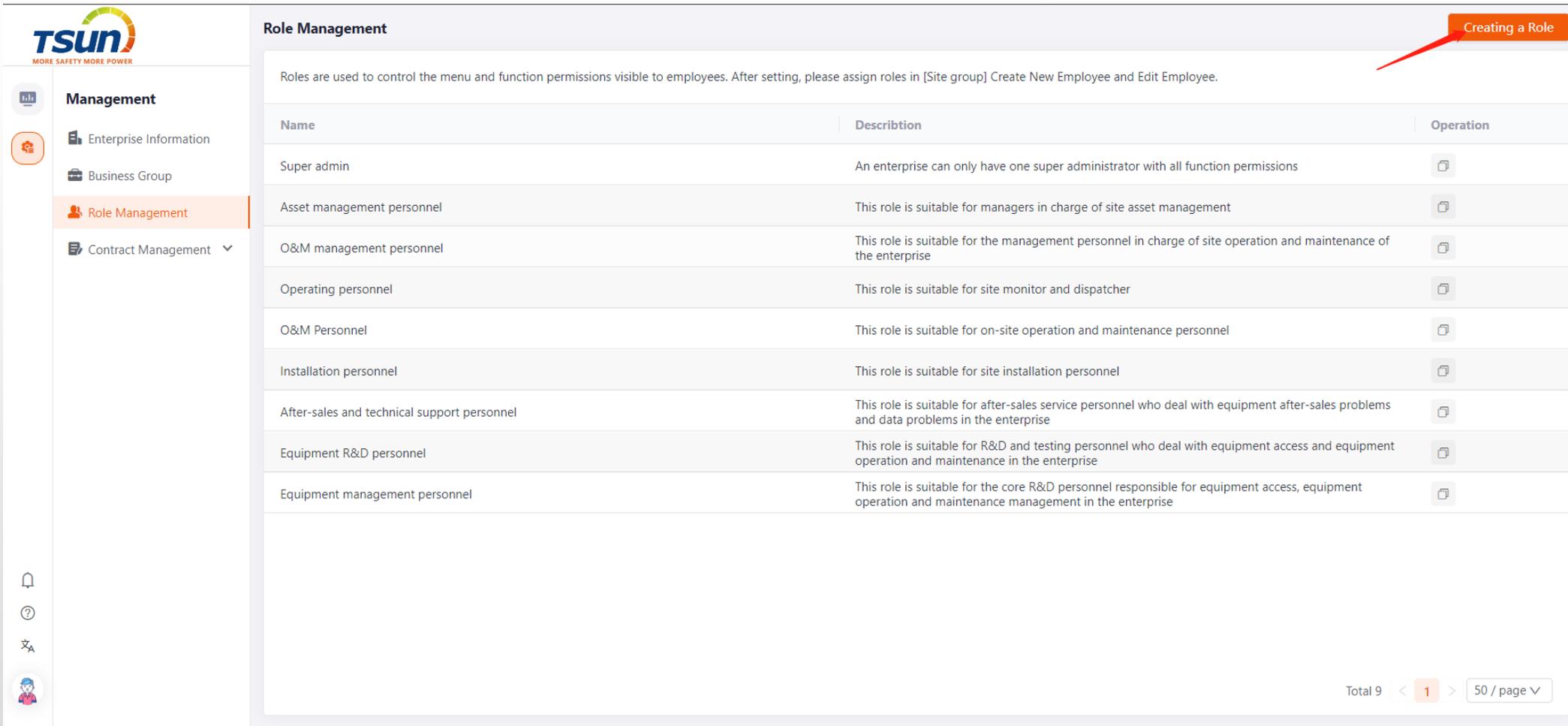
\* Role

O&M management x Operating person x

Does the employee have an account number? [Click here](#) to search account

Fill in all the info

# Role management / Creating a Role



**Role Management**

Roles are used to control the menu and function permissions visible to employees. After setting, please assign roles in [Site group] Create New Employee and Edit Employee.

Name	Description	Operation
Super admin	An enterprise can only have one super administrator with all function permissions	
Asset management personnel	This role is suitable for managers in charge of site asset management	
O&M management personnel	This role is suitable for the management personnel in charge of site operation and maintenance of the enterprise	
Operating personnel	This role is suitable for site monitor and dispatcher	
O&M Personnel	This role is suitable for on-site operation and maintenance personnel	
Installation personnel	This role is suitable for site installation personnel	
After-sales and technical support personnel	This role is suitable for after-sales service personnel who deal with equipment after-sales problems and data problems in the enterprise	
Equipment R&D personnel	This role is suitable for R&D and testing personnel who deal with equipment access and equipment operation and maintenance in the enterprise	
Equipment management personnel	This role is suitable for the core R&D personnel responsible for equipment access, equipment operation and maintenance management in the enterprise	

Total 9 < 1 > 50 / page ▾

Here is all the default “Roles”  
“Create a new Role” : Personalize some more roles with different authority”

# Creating a Role

## Creating a Role

Cancel

Save

\* Name

Please enter

Description

Please enter

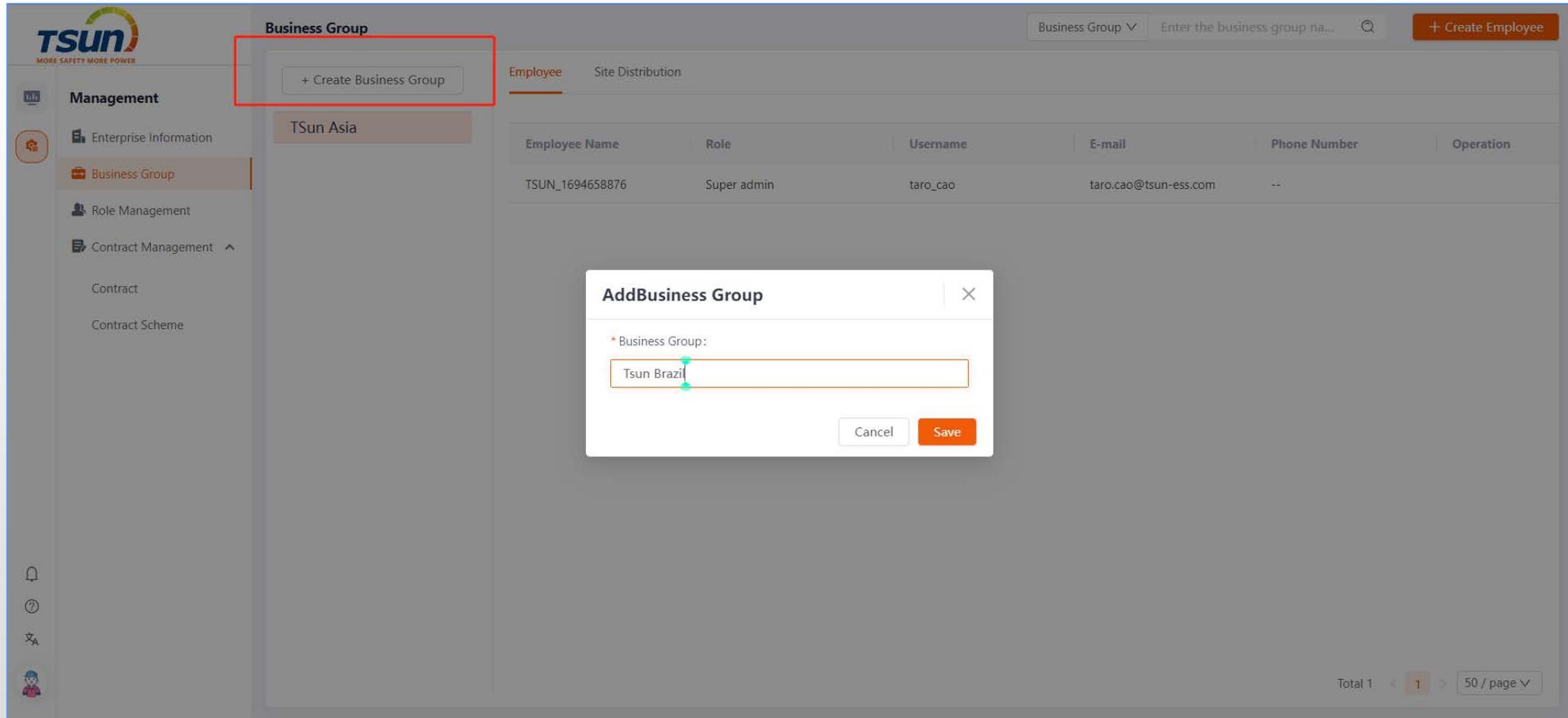
Menu configuration

**Rights Profile**

<input type="checkbox"/> Devices	<input type="checkbox"/> Check Devic List in Site	<input type="checkbox"/> Check Device Detail	<input type="checkbox"/> Add Device to Site	<input type="checkbox"/> Delete Device in Site	<input type="checkbox"/> Edit Device in the Site	<input type="checkbox"/> Device remote control	<input type="checkbox"/> Device firmware upgrade
<input type="checkbox"/> Alerts	<input type="checkbox"/> Check Alert List	<input type="checkbox"/> Check Alert Details	<input type="checkbox"/> Delete Alert	<input type="checkbox"/> Alert Notification Settings			
<input type="checkbox"/> Log	<input type="checkbox"/> Check log list						
<input type="checkbox"/> Enterprise	<input type="checkbox"/> Check Enterprise Info	<input type="checkbox"/> Edit Enterprise Info					
<input checked="" type="checkbox"/> Business Group	<input checked="" type="checkbox"/> Check Business Groups	<input type="checkbox"/> Create Business Group	<input type="checkbox"/> Edit Business Group	<input type="checkbox"/> Delete Business Group			
<input type="checkbox"/> Role	<input type="checkbox"/> View	<input type="checkbox"/> Creating a Role	<input type="checkbox"/> Edit Role	<input type="checkbox"/> Delete Role			
<input type="checkbox"/> Employee	<input type="checkbox"/> View Employees	<input type="checkbox"/> Create Employee	<input type="checkbox"/> Edit Employee	<input type="checkbox"/> Delete Employee			
<input type="checkbox"/> Contract	<input type="checkbox"/> Check contract	<input type="checkbox"/> Add Contract	<input type="checkbox"/> Edit Contract	<input type="checkbox"/> Cancel the Contract	<input type="checkbox"/> View the signing list		

Check ✓ the rights as you need.  
The “**Check Business Groups**” must be select

# Create Business Group



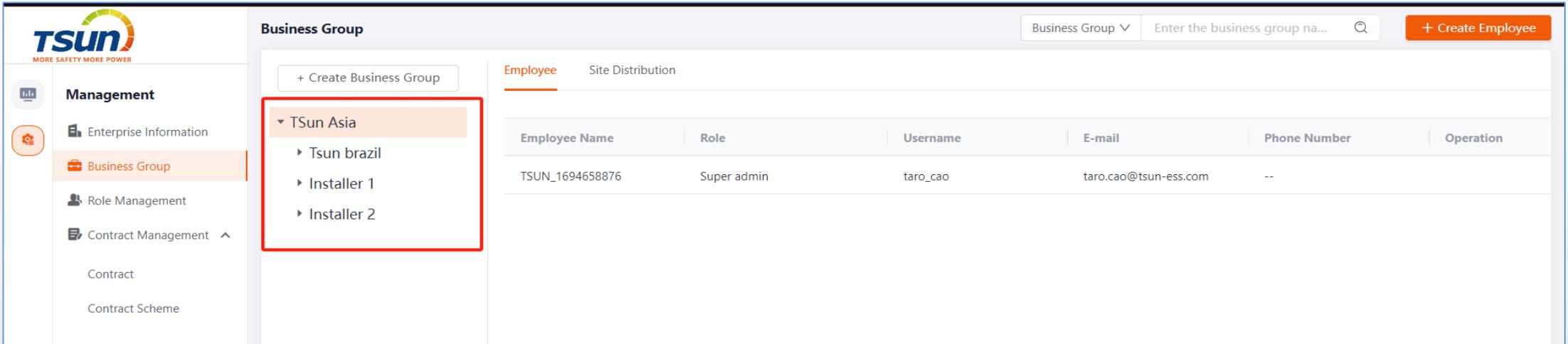
The screenshot displays the 'Business Group' management page. A red box highlights the '+ Create Business Group' button. A modal window titled 'AddBusiness Group' is open, showing a text input field containing 'Tsun Brazil' and 'Save' and 'Cancel' buttons. The background interface includes a sidebar with 'Management' and 'Business Group' selected, and a main area with a table of employees.

Employee Name	Role	Username	E-mail	Phone Number	Operation
TSUN_1694658876	Super admin	taro_cao	taro.cao@tsun-ess.com	--	

Create Business Group :

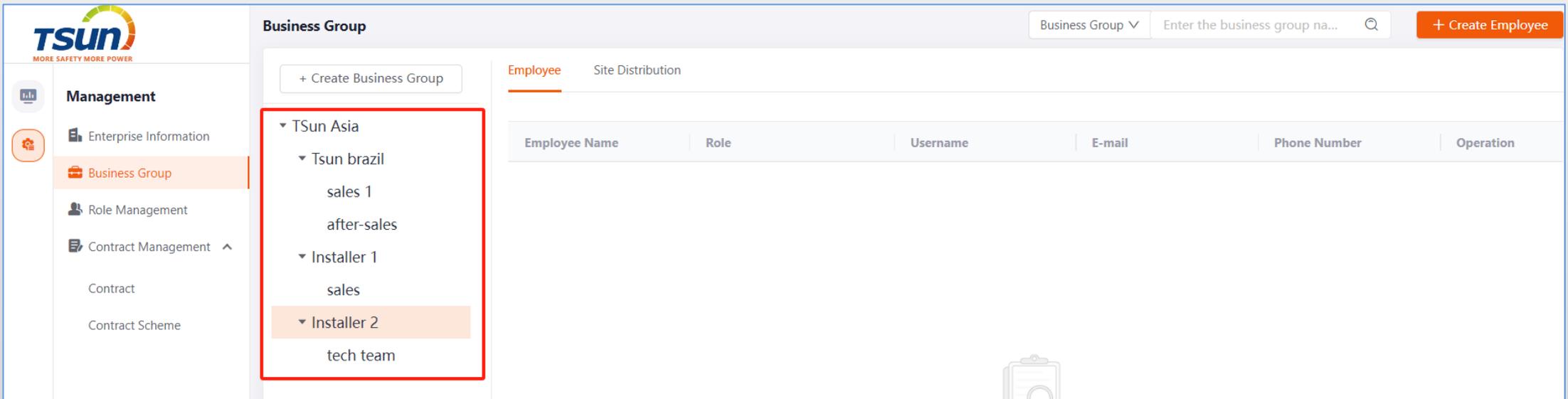
- Create your company Department
- Create your installer account

# Edit / Manage Business Group



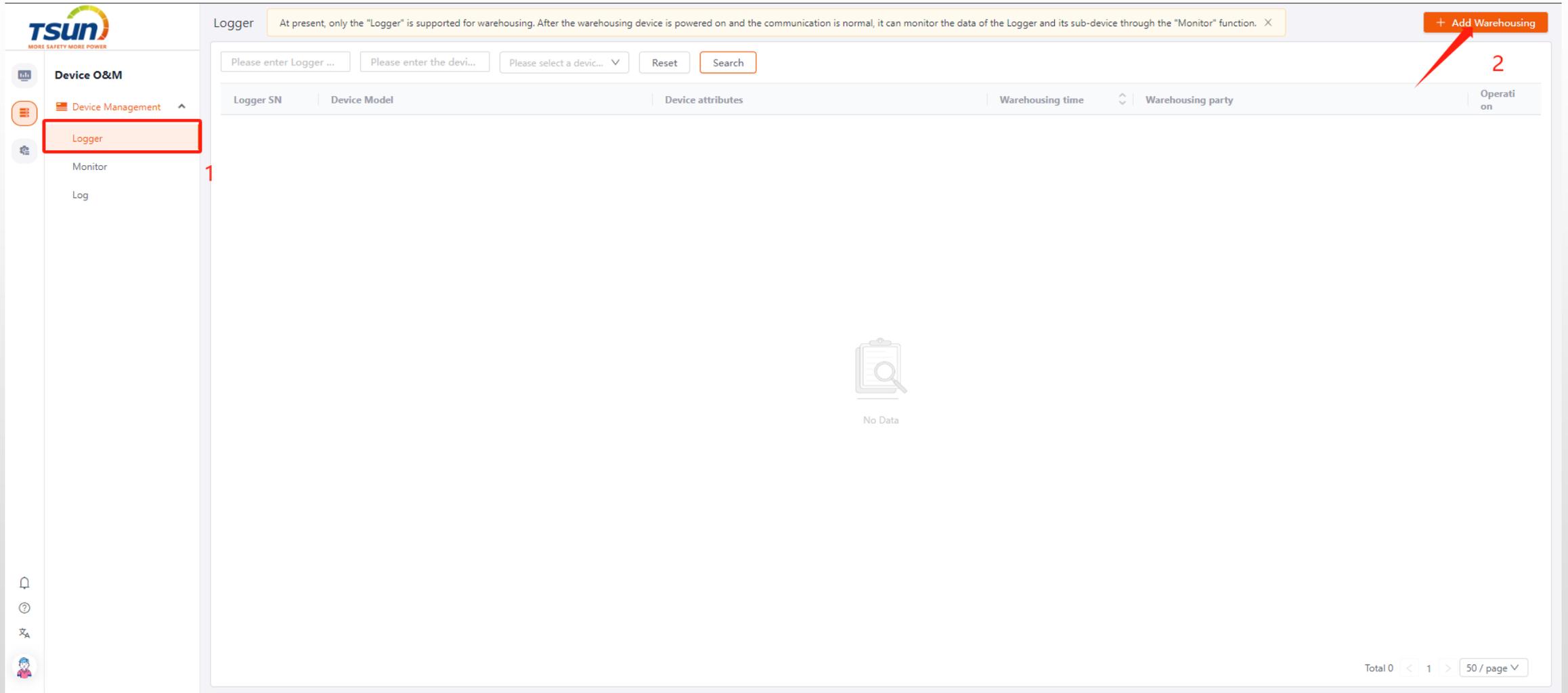
The screenshot shows the 'Business Group' management page. On the left is a 'Management' sidebar with options: Enterprise Information, Business Group (highlighted), Role Management, and Contract Management (with sub-options: Contract, Contract Scheme). The main content area has a search bar for 'Business Group' and a '+ Create Employee' button. Below the search bar is a '+ Create Business Group' button and a tree view of business groups: TSun Asia (expanded), TSun brazil, Installer 1, and Installer 2. The 'Employee' tab is active, showing a table with one employee.

Employee Name	Role	Username	E-mail	Phone Number	Operation
TSUN_1694658876	Super admin	taro_cao	taro.cao@tsun-ess.com	--	



This screenshot shows the same interface as above, but with the 'Installer 2' business group selected in the tree view. The tree view now shows: TSun Asia (expanded), TSun brazil (with sub-items: sales 1, after-sales), Installer 1 (with sub-item: sales), and Installer 2 (expanded, with sub-item: tech team). The 'Employee' table is currently empty.

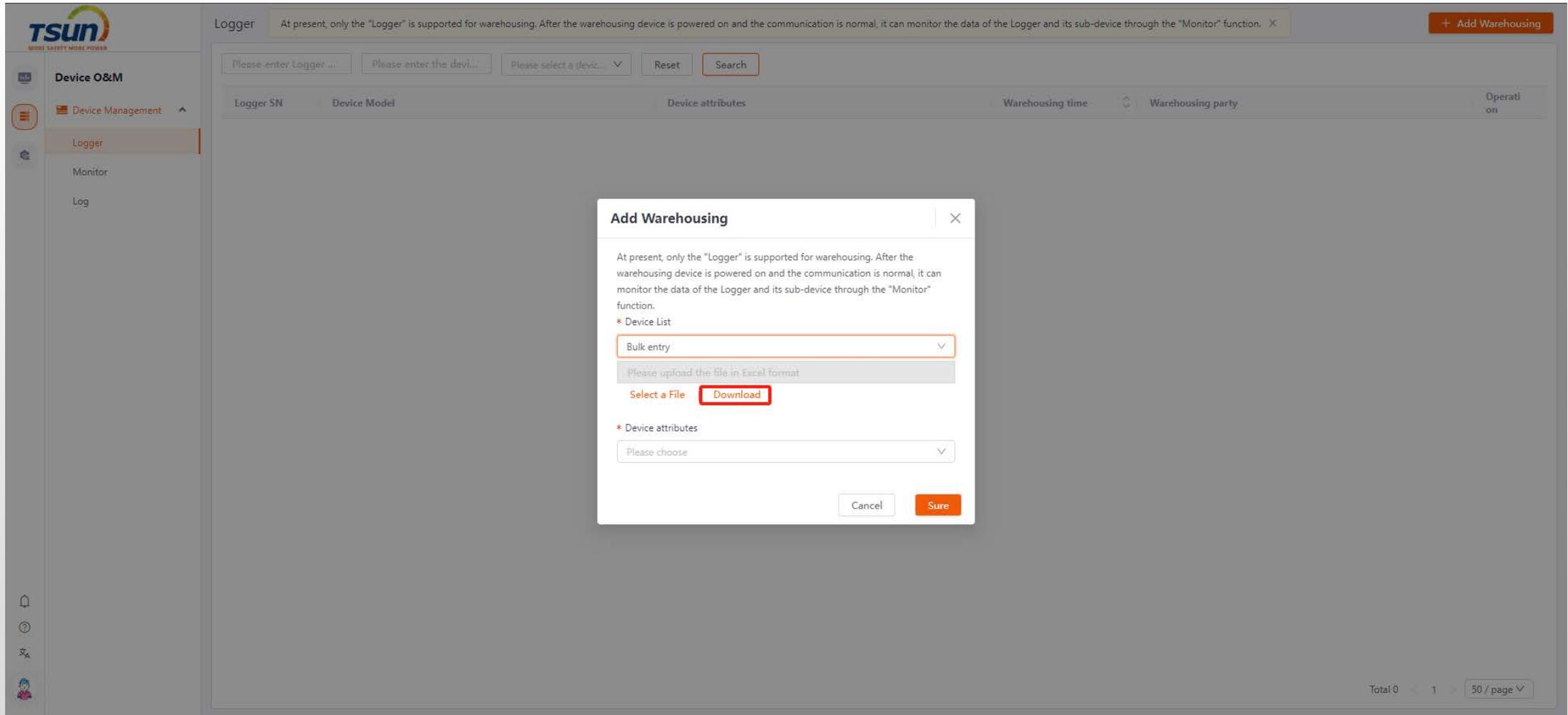
# Add Warehousing



The screenshot displays the 'Device O&M' interface. On the left sidebar, 'Device Management' is expanded, and 'Logger' is highlighted with a red box (labeled '1'). The main content area features a search bar with three input fields: 'Please enter Logger ...', 'Please enter the devi...', and 'Please select a devic...'. Below the search bar is a table with columns: 'Logger SN', 'Device Model', 'Device attributes', 'Warehousing time', 'Warehousing party', and 'Operati on'. The table is currently empty, showing a 'No Data' message with a magnifying glass icon. In the top right corner, there is an orange '+ Add Warehousing' button with a red arrow pointing to it (labeled '2'). A yellow tooltip above the button contains the text: 'At present, only the "Logger" is supported for warehousing. After the warehousing device is powered on and the communication is normal, it can monitor the data of the Logger and its sub-device through the "Monitor" function. X'. At the bottom right, there is a pagination control showing 'Total 0', '1', and '50 / page'.

Device O&M -----> Add Warehousing

# Add Warehousing



Logger At present, only the "Logger" is supported for warehousing. After the warehousing device is powered on and the communication is normal, it can monitor the data of the Logger and its sub-device through the "Monitor" function. X

Please enter Logger ... Please enter the devi... Please select a devi... v Reset Search

Logger SN	Device Model	Device attributes	Warehousing time	Warehousing party	Operati on
-----------	--------------	-------------------	------------------	-------------------	------------

### Add Warehousing

At present, only the "Logger" is supported for warehousing. After the warehousing device is powered on and the communication is normal, it can monitor the data of the Logger and its sub-device through the "Monitor" function.

\* Device List

Bulk entry v

Please upload the file in Excel format

Select a File Download

\* Device attributes

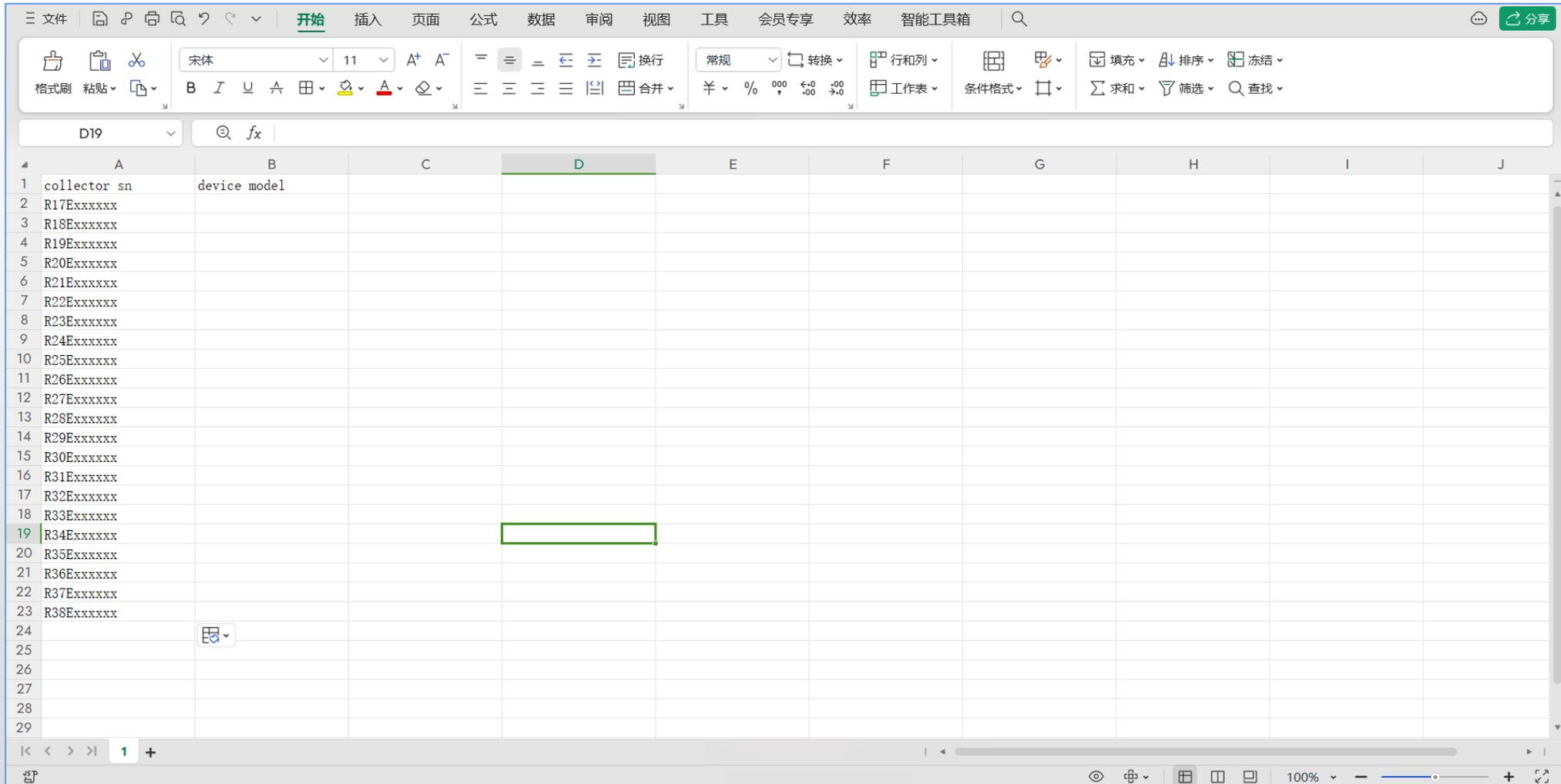
Please choose v

Cancel Sure

Total 0 < 1 > 50 / page v

Download Template

# Add Warehousing



The screenshot shows a spreadsheet application interface. The top menu bar includes options like '文件' (File), '开始' (Home), '插入' (Insert), '公式' (Formulas), '数据' (Data), '审阅' (Review), '视图' (View), '工具' (Tools), '会员专享' (Member Exclusive), '效率' (Efficiency), and '智能工具箱' (Smart Toolbox). The ribbon contains various formatting and editing tools. The spreadsheet grid has columns A through J and rows 1 through 29. Column A contains collector IDs (R17E to R38E) and column B contains device models. A green selection box is visible in cell D19.

	A	B	C	D	E	F	G	H	I	J
1	collector sn	device model								
2	R17Exxxxxx									
3	R18Exxxxxx									
4	R19Exxxxxx									
5	R20Exxxxxx									
6	R21Exxxxxx									
7	R22Exxxxxx									
8	R23Exxxxxx									
9	R24Exxxxxx									
10	R25Exxxxxx									
11	R26Exxxxxx									
12	R27Exxxxxx									
13	R28Exxxxxx									
14	R29Exxxxxx									
15	R30Exxxxxx									
16	R31Exxxxxx									
17	R32Exxxxxx									
18	R33Exxxxxx									
19	R34Exxxxxx									
20	R35Exxxxxx									
21	R36Exxxxxx									
22	R37Exxxxxx									
23	R38Exxxxxx									
24										
25										
26										
27										
28										
29										

Fill the list

Logger SN

Device Model

Device attributes

Warehousing time

Warehousing party

### Add Warehousing



At present, only the "Logger" is supported for warehousing. After the warehousing device is powered on and the communication is normal, it can monitor the data of the Logger and its sub-device through the "Monitor" function.

\* Device List

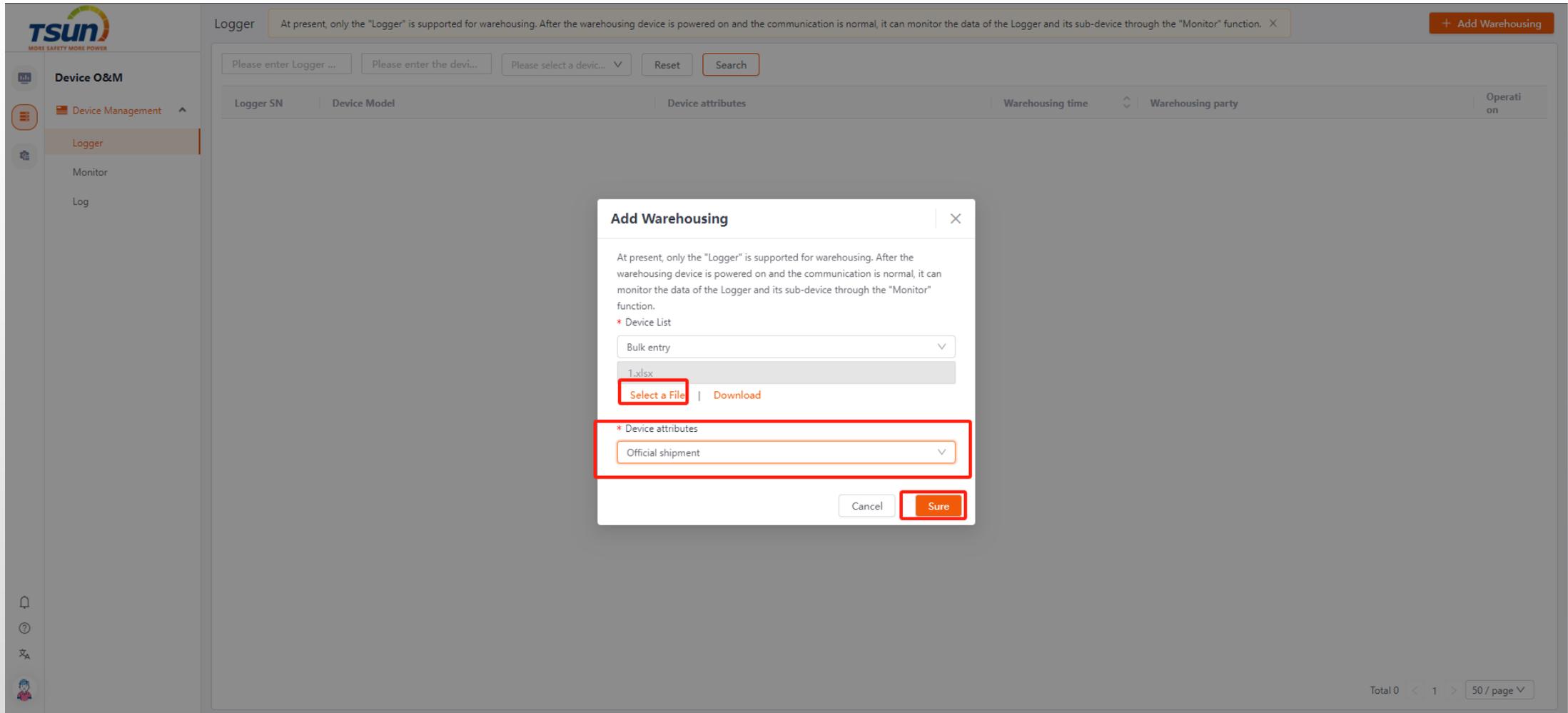


1.xlsx

\* Device attributes



# Add Warehousing



Logger At present, only the "Logger" is supported for warehousing. After the warehousing device is powered on and the communication is normal, it can monitor the data of the Logger and its sub-device through the "Monitor" function. X + Add Warehousing

Please enter Logger ... Please enter the devi... Please select a devi... v Reset Search

Logger SN	Device Model	Device attributes	Warehousing time	Warehousing party	Operati on
-----------	--------------	-------------------	------------------	-------------------	------------

### Add Warehousing

At present, only the "Logger" is supported for warehousing. After the warehousing device is powered on and the communication is normal, it can monitor the data of the Logger and its sub-device through the "Monitor" function.

\* Device List

Bulk entry v

1.xlsx

Select a File | Download

\* Device attributes

Official shipment v

Cancel Sure

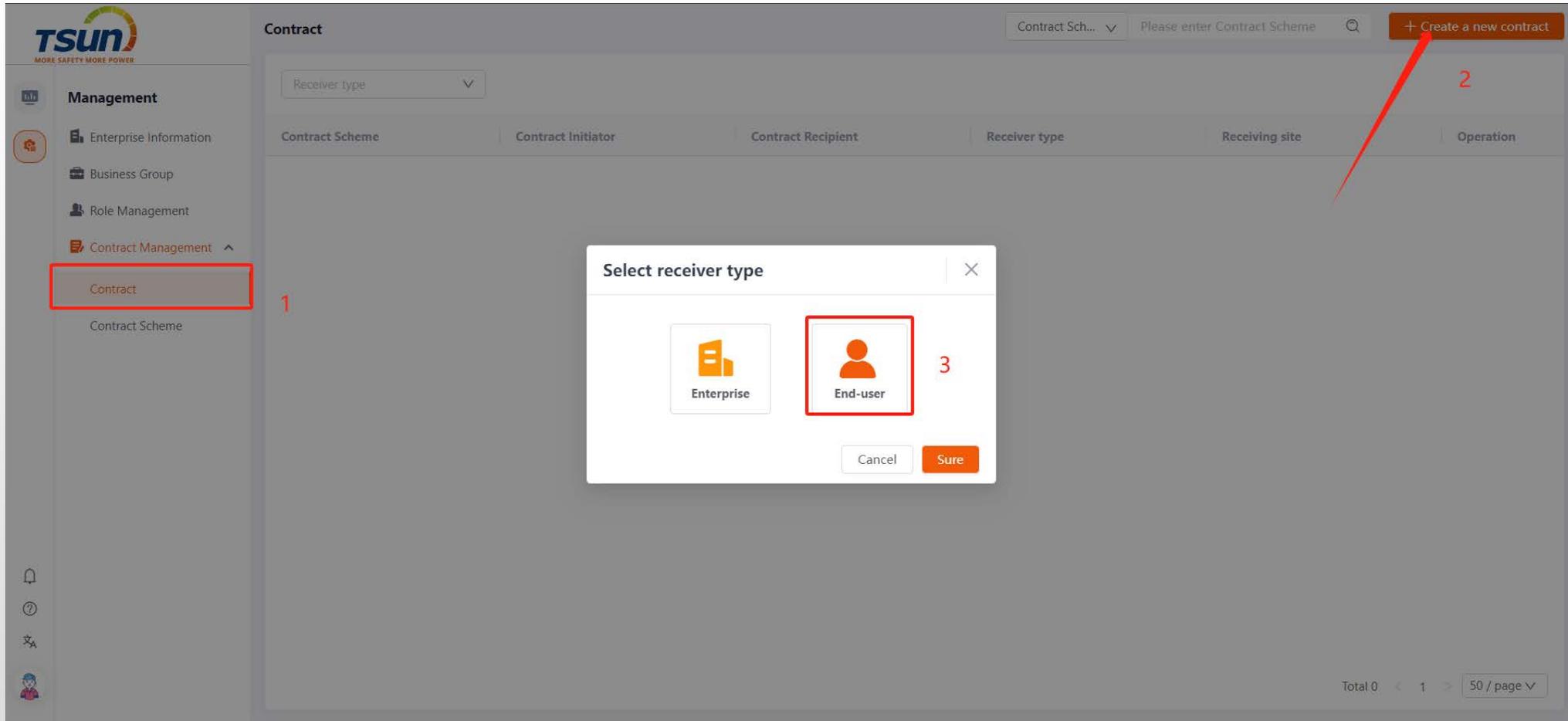
Total 0 < 1 > 50 / page v

Upload the file -----> select Official Shipment----> Click "Sure"

## Installer Duty

1. Create you own account if need
2. Help End-User to create plant
3. Share the authority
4. Feedback and share the plant info if there is problem

# Contract Mangment



The screenshot displays the TSUN Contract Management interface. On the left, a navigation menu under 'Management' includes 'Enterprise Information', 'Business Group', 'Role Management', and 'Contract Management'. The 'Contract' option is highlighted with a red box and labeled '1'. The main area shows a 'Contract' page with a search bar and a '+ Create a new contract' button, which is also highlighted with a red box and labeled '2'. A table with columns 'Contract Scheme', 'Contract Initiator', 'Contract Recipient', 'Receiver type', 'Receiving site', and 'Operation' is visible. A 'Select receiver type' dialog box is open in the center, showing two options: 'Enterprise' and 'End-user'. The 'End-user' option is selected with a red box and labeled '3'. The dialog box also contains 'Cancel' and 'Sure' buttons. At the bottom right, there is a pagination control showing 'Total 0', '1', and '50 / page'.

# Create End-User Contract

✕ Add new contract

Cancel

Save

 **Contract Initiator**  
Tsun Asia

 **Contract Recipient**

 **E-mail** 

\* Name

Taro

\* E-mail

taro.cao@tsun-ess.com

\* Username

Taro4

\* Password

T1234567 

Does the end user have an account? [Click here](#) Search Account

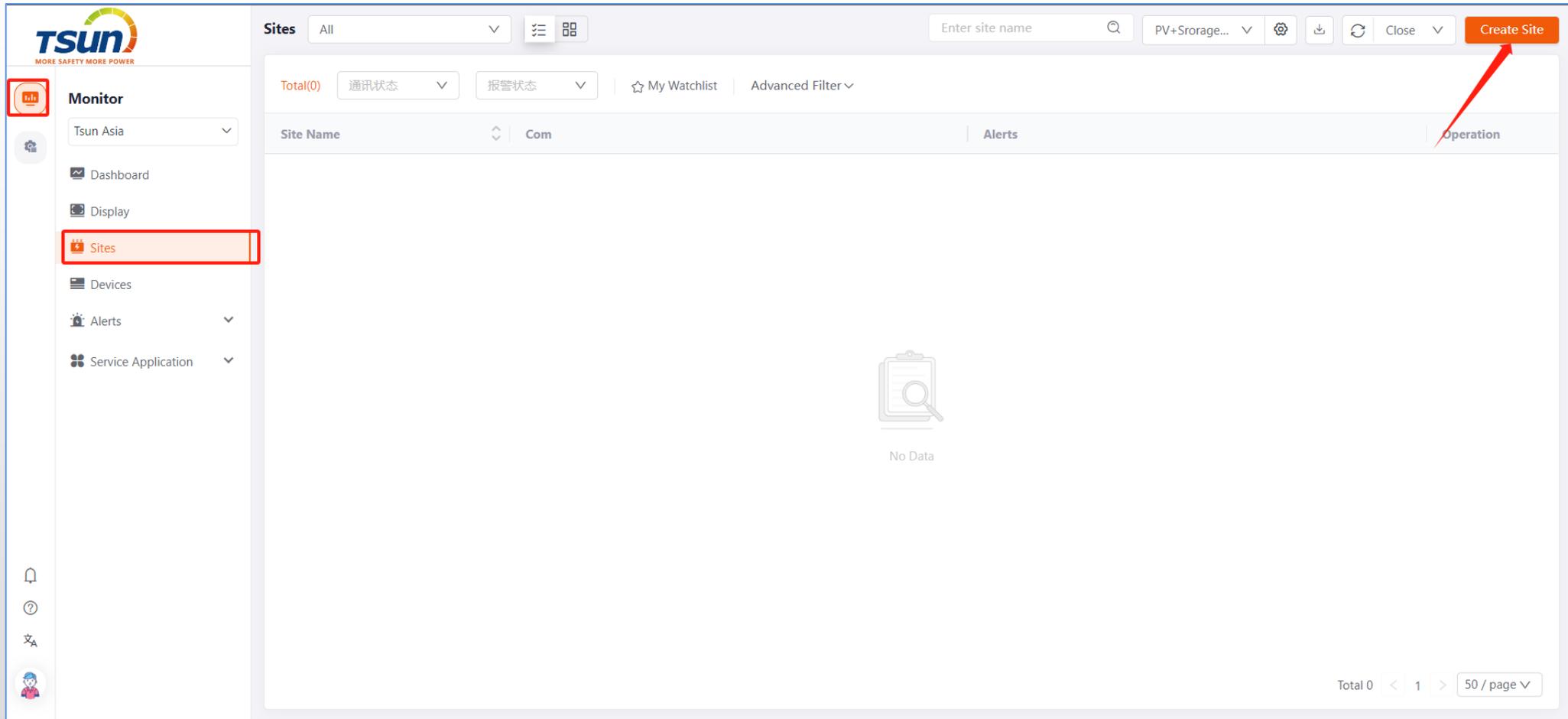
\* **Contract Scheme**

O&M site agreement 

This scheme is suitable for the operation and maintenance unit of the site, which can view, edit, add, edit, delete, add, edit and delete the authorized site

<b>Installer Create End-user account</b>	<b>End-user Create Themselves</b>
TSUN Monitoring and Management Portal	Talent smart APP
Installer can manage, edit and view the plant End-user only can View after Installer authorized the end-user	Installer must get the permitation from end-user to authorize both the Installer and Distributer
Need to authorize Distributer	

# Create Site for end-user



The screenshot shows the TSUN monitoring dashboard. On the left sidebar, the 'Monitor' section is active, and the 'Sites' menu item is highlighted with a red box. In the top right corner of the main content area, the 'Create Site' button is highlighted with a red arrow. The main content area displays a table with columns for 'Site Name', 'Com', 'Alerts', and 'Operation'. The table is currently empty, showing 'Total(0)' and 'No Data'.

Monitoring ----> sites ----> Create Site

# Create Site for end-user

### Create Site

Cancel Save

\* Site Name  
Demo test 1 Tsun

Please enter site address to search  Search



\* Coordinates  
Longitude: 116 57 34.04 Latitude: 33 38 51.35

\* Region  
China / Anhui / Suzhou / Yongqiaoqu

\* Address  
2288

\* Time Zone  
(UTC+08:00) Beijing,Chongqing,Hong Kong,Urumqi

Fill in all the info

# Create Site for end-user

**Create Site** Cancel Save



\* Coordinates  
Longitude: 116 57 34.04    Latitude: 33 38 51.35

\* Region: China / Anhui / Suzhou / Yongqiaoqu    \* Address: 2288    \* Time Zone: (UTC+08:00) Beijing,Chongqing,Hong Kong,Urumqi

\* System Type  Solar+Grid     Solar+Grid+Consumption     Solar+Grid+Consumption+Storage

\* Site Type  Resident

Production/On-grid Date: 2023-09-28    \* Solar Capacity(kWp): 6    ModuleAzimuth(°): Please enter

ModuleTilt Angle(°): Please enter

Related Party Type	Contact Name	Contact Phone Number	Contact E-mail	Name of Enterprise	Operation
Roof Owner	Taro	123123123	service01@tsun-ess.com	Tsun Asia	

+ Add a new line of data

Fill in all the info and click Save

Create Site

Done



## Site created successfully

Please do the following operations:



### Add Datalogger

Input Logger SN to realize site data monitoring

Add up to 50 loggers. If you need to add more loggers, please continue to add them in the site details



### Authorized sites to contract end user

Authorize the site to the contracted end user, and the end user can also watch the monitoring

If you need to authorize the site to the contracted enterprises and internal employees, please continue to add in the site details

Click Authorized sites to contract end-user

# Authorize Distributor

Create Site

Done



**Site created successfully**

Please do the following operations:



**Add Datalogger**

Input Logger SN to realize site data monitoring

Add up to 50 loggers. If you need to add more loggers, please continue to add them in the site details

**Authorized contracted end users**



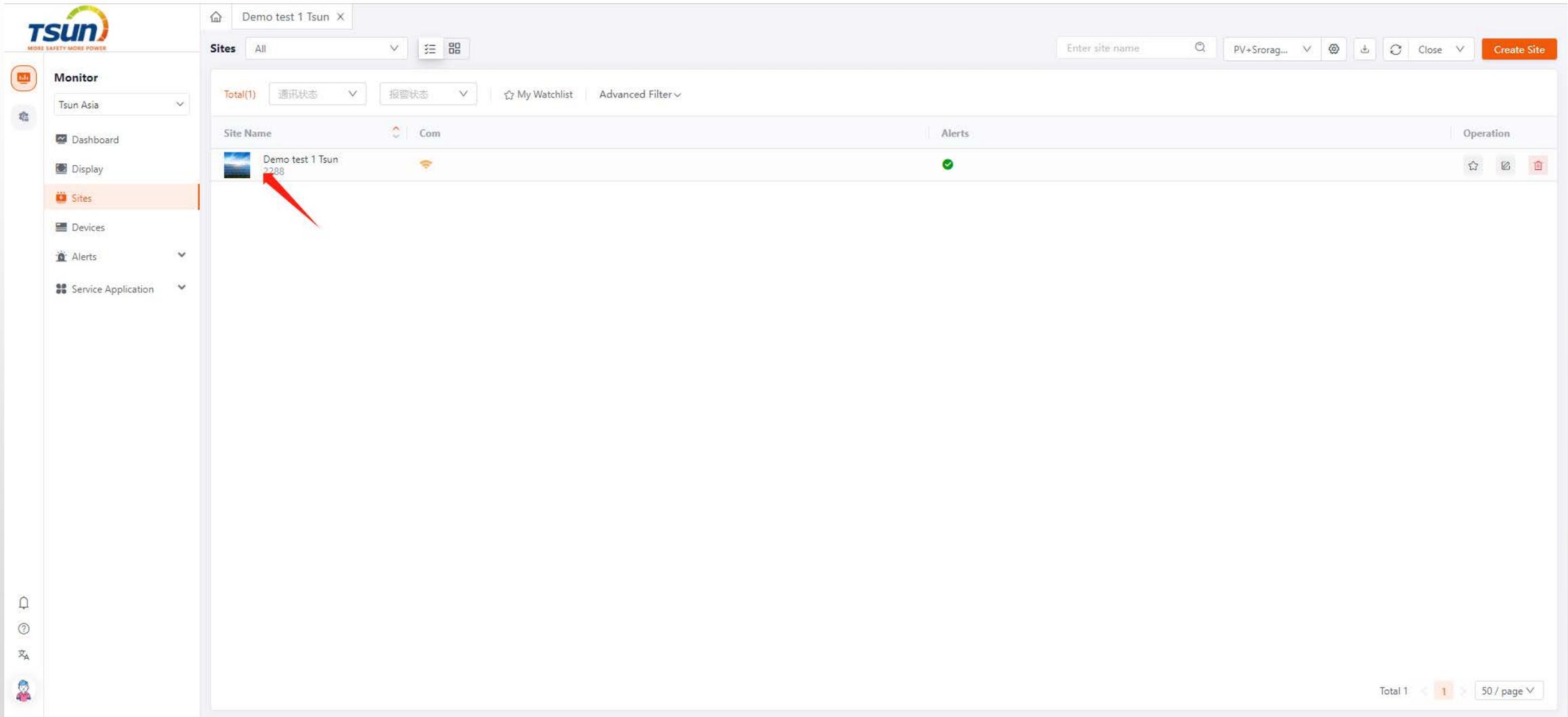
YX

Contract Scheme: 只读场站协议

If you need to authorize the site to the contracted enterprises and internal employees, please continue to add in the site details

Fill in the info --- choose read site only agreement ---- click save

# Authorize Distributor

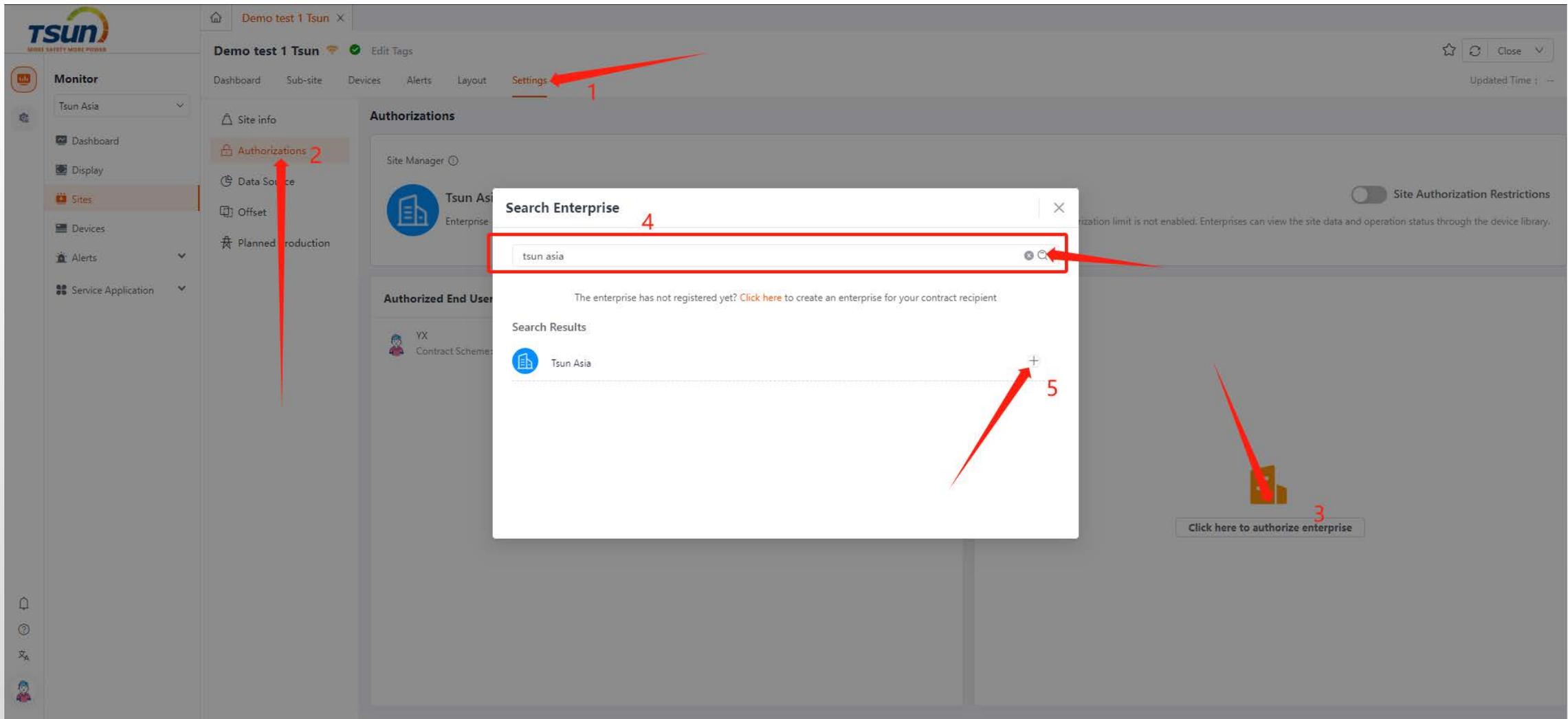


The screenshot shows the 'Monitor' section of the TSUN web interface. The left sidebar contains navigation options: Dashboard, Display, Sites (highlighted), Devices, Alerts, and Service Application. The main content area displays a table of sites. The table has columns for Site Name, Com, Alerts, and Operation. A single site is listed: 'Demo test 1 Tsun' with ID '2288'. A red arrow points to the site name. The table also shows filters for 'Total(1)', '通讯状态', and '报警状态', along with 'My Watchlist' and 'Advanced Filter' options. A 'Create Site' button is visible in the top right corner. The bottom right corner shows pagination: 'Total 1', '1 / page', and '50 / page'.

Site Name	Com	Alerts	Operation
 Demo test 1 Tsun 2288	Com		  

Click Plant

# Authorize Distributor



1

2

3

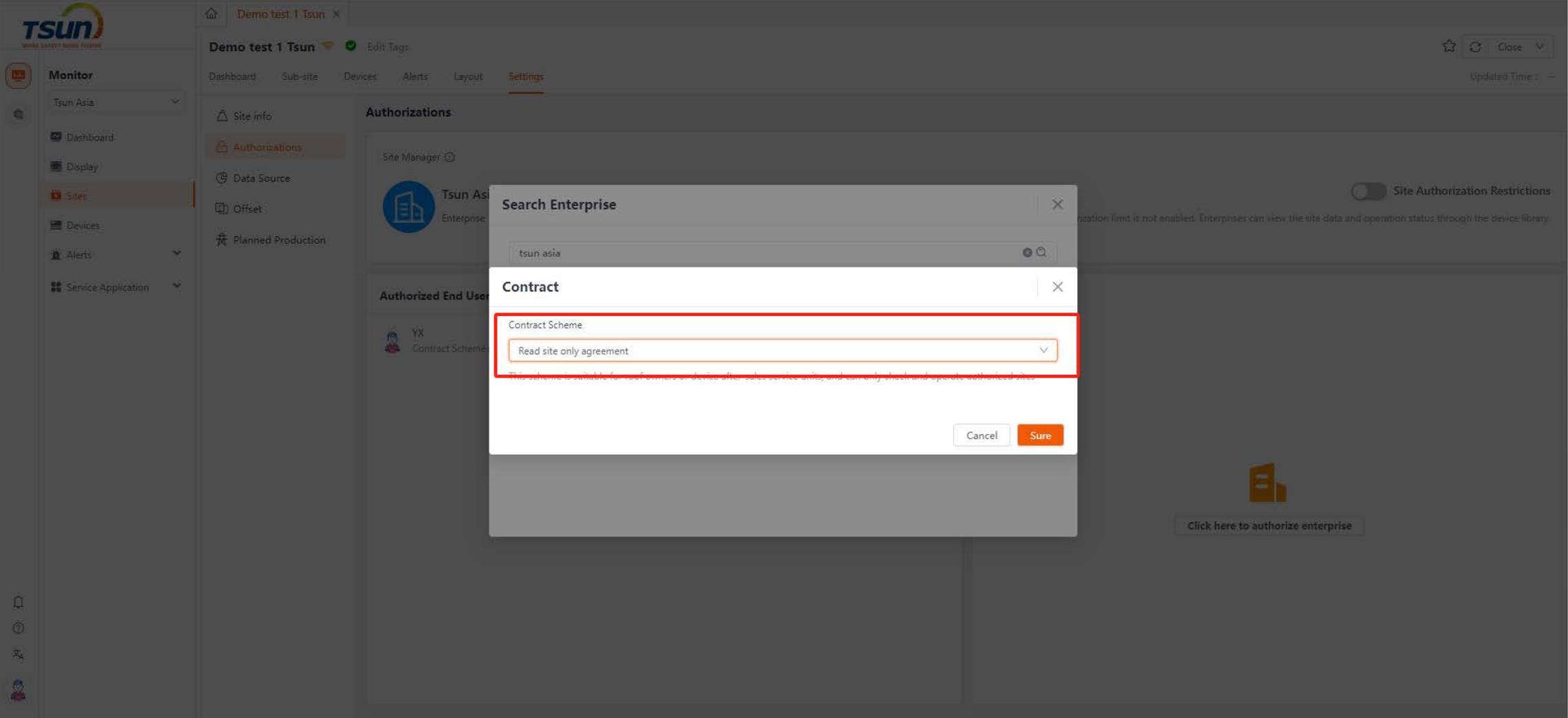
4

5

Click here to authorize enterprise

Click Setting--> Click Authorizations---- Click authorize enterprise --- enter enterprise name --Click +

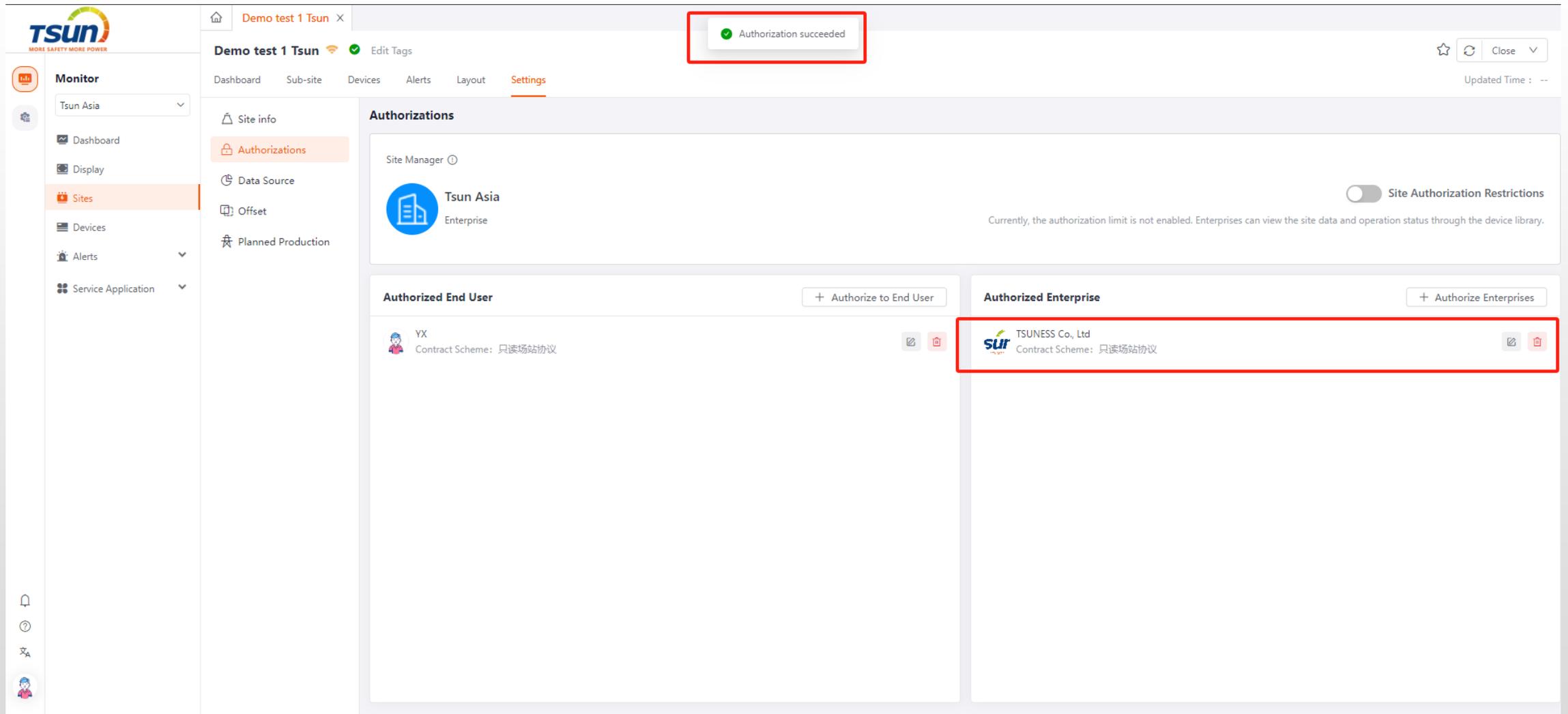
# Authorize Distributor



The screenshot displays the TSUN web interface. In the background, the 'Authorizations' section is visible, showing a list of authorized end users. A 'Search Enterprise' dialog box is open, with the search term 'tsun asia' entered. Below this, a 'Contract' dialog box is open, showing a dropdown menu for 'Contract Scheme' with 'Read site only agreement' selected. The dialog box also contains 'Cancel' and 'Sure' buttons. The background interface includes a sidebar with navigation options like 'Monitor', 'Dashboard', 'Display', 'Sites', 'Devices', 'Alerts', and 'Service Application'. The main content area shows 'Site Manager' and 'Authorized End User' sections.

Choose "Read site only agreement" ---> Click save

# Authorize Distributor



The screenshot displays the 'Authorizations' page in the TSUN system. At the top, a notification box indicates 'Authorization succeeded'. The page is divided into several sections:

- Site Manager:** Shows 'Tsun Asia' as the Enterprise. A toggle for 'Site Authorization Restrictions' is present, currently turned off. A note states: 'Currently, the authorization limit is not enabled. Enterprises can view the site data and operation status through the device library.'
- Authorized End User:** Contains one entry: 'YX' with 'Contract Scheme: 只读场站协议'.
- Authorized Enterprise:** Contains one entry: 'TSUNESS Co., Ltd' with 'Contract Scheme: 只读场站协议'.

shows succeeded and there is enterprise under the list --- Done

Rest settings please follow “Talent Smart Usermanual”



Thank You

TSUNESS Co., Ltd

Website: [www.tsun-ess.com](http://www.tsun-ess.com)

Address: Building 3, No.2266, Xiangcheng District, Suzhou City, Jiangsu Province, China