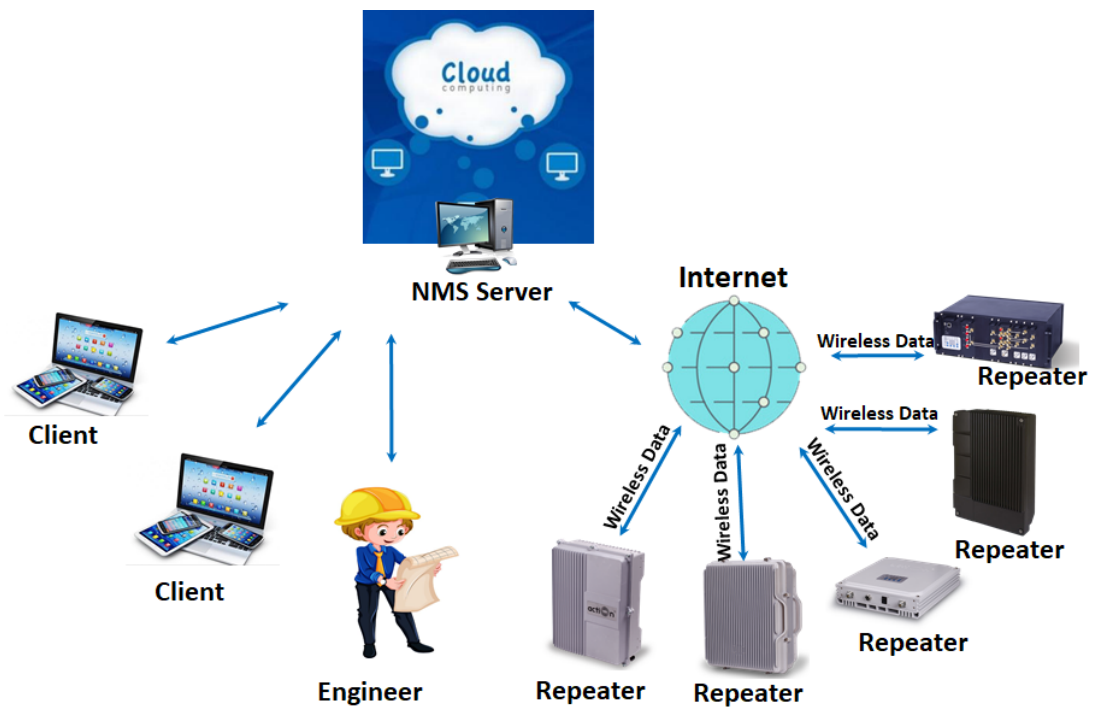# Cloud Network Management System Manual of Tetra Repeater

Cloud Network Management System is built on the B/S framework, with features like low cost, mobility, faster speed and easy to operate. Its system architecture is shown below:

First, we installed the management software on the cloud service platform, then connect the repeater to the cloud server platform via the Internet, in this way, we can log in to the cloud service platform anywhere to operate the repeater, including querying the real-time status of the repeater, setting the parameters of repeater remotely and so on; Please refer to the instructions below for detailed operation:
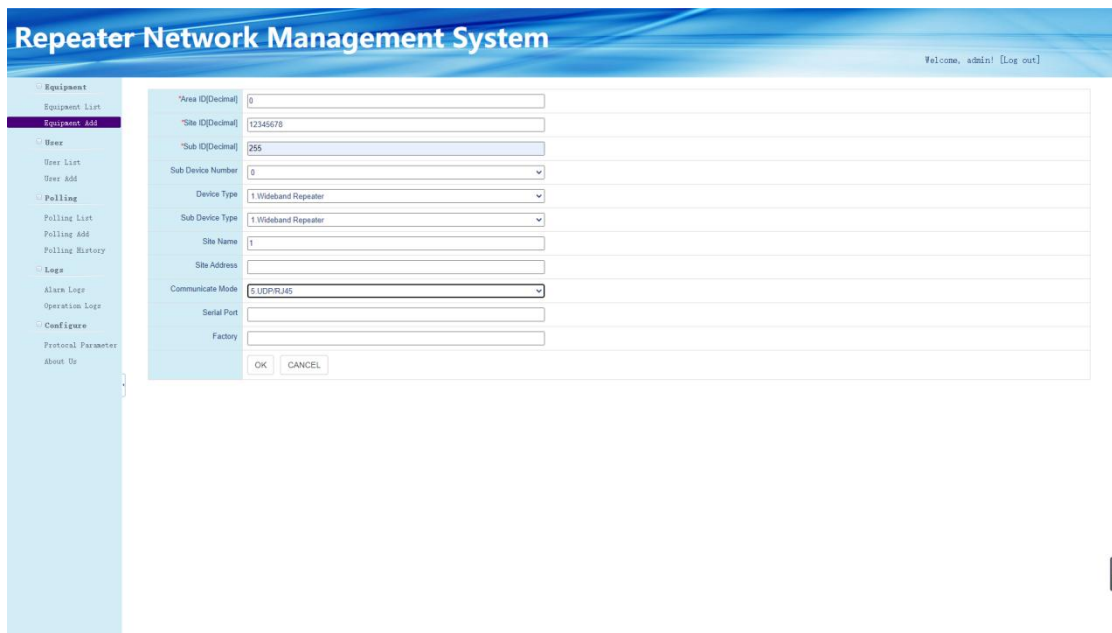
i.   **Log In the Cloud Monitoring Platform**

a)   Open a browser on your computer or mobile phone and type in the URL((http://118.163.153.117) this is the test platform, and we usually recommend that clients rent cloud server and install monitoring software as their own monitoring platform) in the browser address bar, and enter the user name(Admin) and password(123456) to log in.

ii. Create the Monitoring Site/Repeater

a) To add Site/Repeater, click the **Equipment Add** on the left Menu Bar, fill in Site ID,SUB ID and Site Name,the Site ID must be the same as the ID of the repeater itself (which was set by local before),and Sub ID must be 255 for RF repeater, select UDP as the communication mode, keep the default values for the other parameters,finally click OK to save.

b) After adding a Site, it will appear automatically in the Equipment List. Then we can operate repeater: the **Edit** button on the right of the corresponding Repeater to rewrite the properties, and the **Delete** button to remove the selected Repeater.

iii. Repeater Configuration Management

a) Click **Operation** button on the right of the corresponding Repeater to set the Repeater with the following details, Click **Query Paramater List** to get the list of parameters from the repeater.
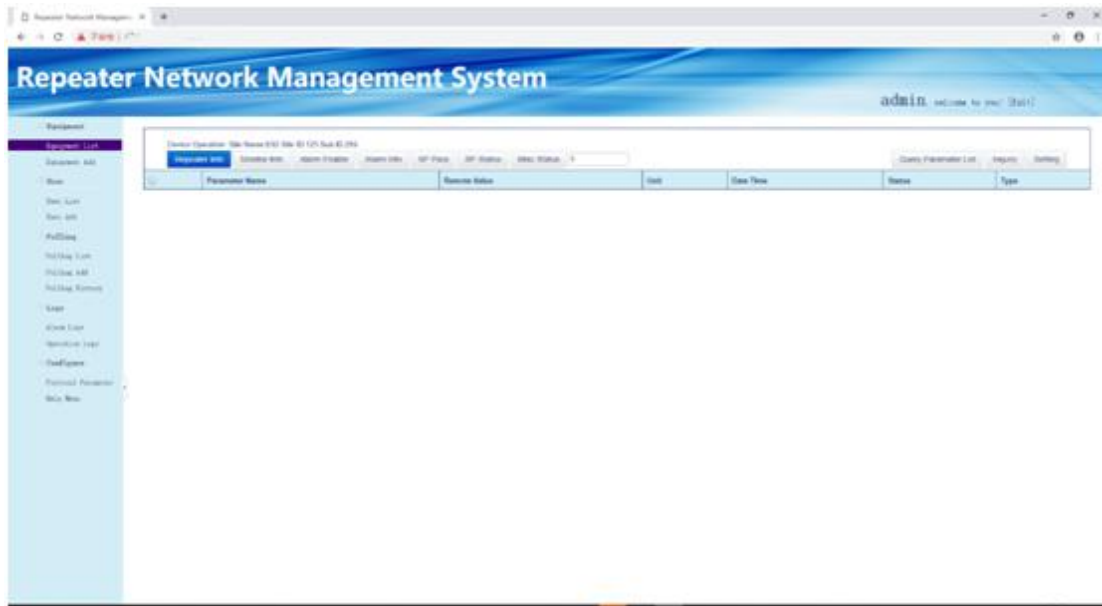
The process of getting the parameter list is shown in the figure below

b)   To query/set the Repeater with the following details:The **Repeater Info** page can be inquired of some basic parameters of the Repeater.

c) The **Monitor Info** page can be inquired of and set the monitor parameters of the Repeater. For setting, it needs to double click the blank space corresponding to the item under the **Remote Value**. For example, to modify the **Site ID** needs to double click the below red marked field, then input the new Site ID and click **Setting** to save changes.

d) The **Alarm Enable** page can be query of and set alarm enable/disable. For setting, it needs to double click the corresponding alarm item under the Remote Value, and select **Enable** or **Disable** (alarm blocked) in the dropdown menu. Generally the status will be **Enable** (alarm activated) by default.

e) The **Alarm Info** page can be query of the realtime alarm status of the repeater. Select the all alarm item and click Inquiry to check. Under good running circumstances, it will display Normal; but when certain parameter alarms, it will display Alarm instead.

f) The **RF Para** page can be inquired of and set the frequency /gain and alarm threshold of the Repeater.

g) The **RF Status** page can be inquired of the real-time status of the repeater, including RF input/output power, etc.

User Management

a) **User List** can be checked and modify the user list.

b) **User Add** can be used to add new user, which involves three permission levels:

First, Admin – Administrator permission, it can either add or delete repeaters, or set and inquiry of the repeater parameters, as well as add/modify other users.

Second, User – User permission, can set and inquiry of the Repeater parameters;

Third, Guests – Guest permission, can only read the Repeater parameters but unable to set and modify them.
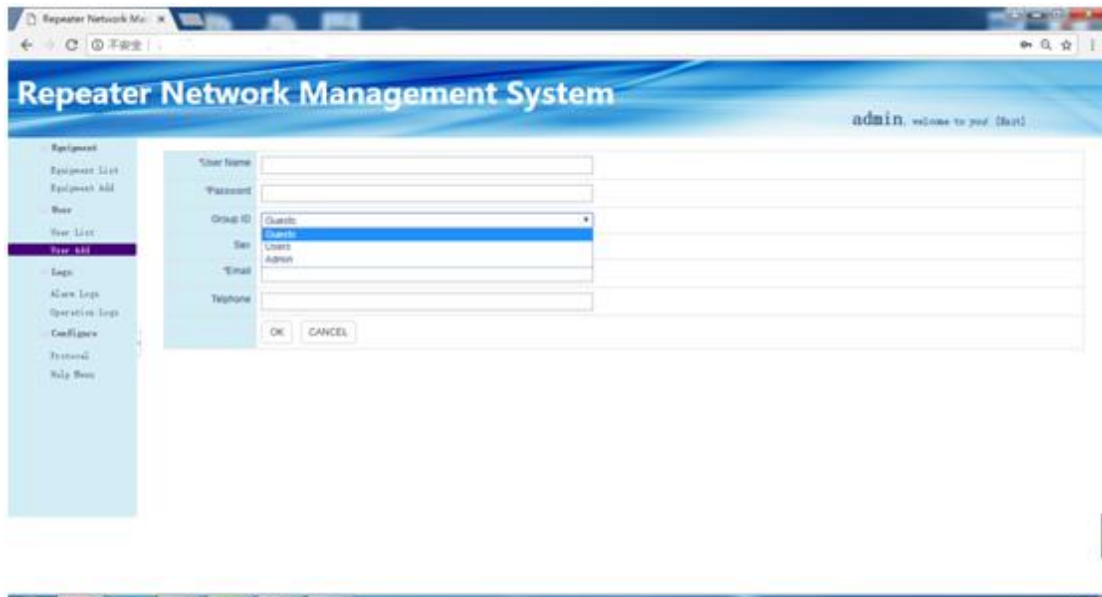
iv. **Site/Repeater Polling**

a) Polling Add, select the repeater and parameters to be polled, then select the polling time, and then automatically query the selected repeater parameters in the set time period.
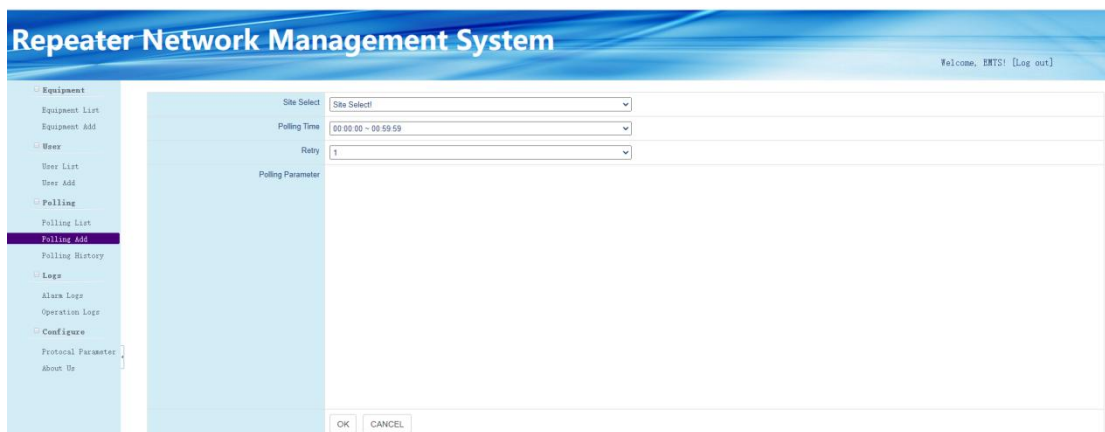
b) Polling List, the parameters for successful polling can be checked in the polling history.

Repeater Network Management System

Polling History:

ID [Site ID] [Search] Start 年/月/日 --:-- ⊘ End 年/月/日 --:-- ⊘ [Search] [Export]   [Delete Selected]

☐	Site ID	Sub ID	Site Name	Moid	Parameter	Value	Time	Operation
☐	10000004	255	Keppel Shipyard	0x0506	Band1/ CH1 DL PA VSWR	1.2	2021-05-17 10:00:31	Delete
☐	10000004	255	Keppel Shipyard	0x0505	Band1/ CH1 DL Gain	89	2021-05-17 10:00:31	Delete
☐	10000004	255	Keppel Shipyard	0x0504	Band1/ CH1 UL Max. Gain	62	2021-05-17 10:00:31	Delete
☐	10000004	255	Keppel Shipyard	0x050D	Band1/ CH1 UL O/P	0	2021-05-17 10:00:31	Delete
☐	10000004	255	Keppel Shipyard	0x0503	Band1/ CH1 DL O/P	39	2021-05-17 10:00:31	Delete
☐	10000004	255	Keppel Shipyard	0x0502	Band1/ CH1 DL I/P	-50	2021-05-17 10:00:31	Delete
☐	10000004	255	Keppel Shipyard	0x0501	PA Temp	49	2021-05-17 10:00:31	Delete
☐	10000004	255	Keppel Shipyard	0x0328	Door Open Alarm	Normal	2021-05-17 10:00:31	Delete
☐	10000004	255	Keppel Shipyard	0x0315	Band1/ CH1 UL Over O/P Alarm	Normal	2021-05-17 10:00:31	Delete
☐	10000004	255	Keppel Shipyard	0x0314	Band1/ CH1 DL PA VSWR Alarm	Normal	2021-05-17 10:00:31	Delete
☐	10000004	255	Keppel Shipyard	0x0313	Band1/ CH1 DL Low O/P Alarm	Normal	2021-05-17 10:00:31	Delete
☐	10000004	255	Keppel Shipyard	0x0312	Band1/ CH1 DL Over O/P Alarm	Normal	2021-05-17 10:00:31	Delete

Total 2147 Records   12 Records/Page   1~12   Page 1/179   1 2 3 4 5 6   Next   End   1 [GO]

Repeater Network Management System

Polling List   [New Polling]

ID	Area ID	Site ID	Sub ID	Site Name	Polling Time	Attempts	Status	Operation
27	1	10000001	255	Grandlink Square	10:00:00 ~ 10:59:59	3	Success	Details Delete
30	1	10000004	255	Keppel Shipyard	10:00:00 ~ 10:59:59	3	Success	Details Delete

v. Log Management
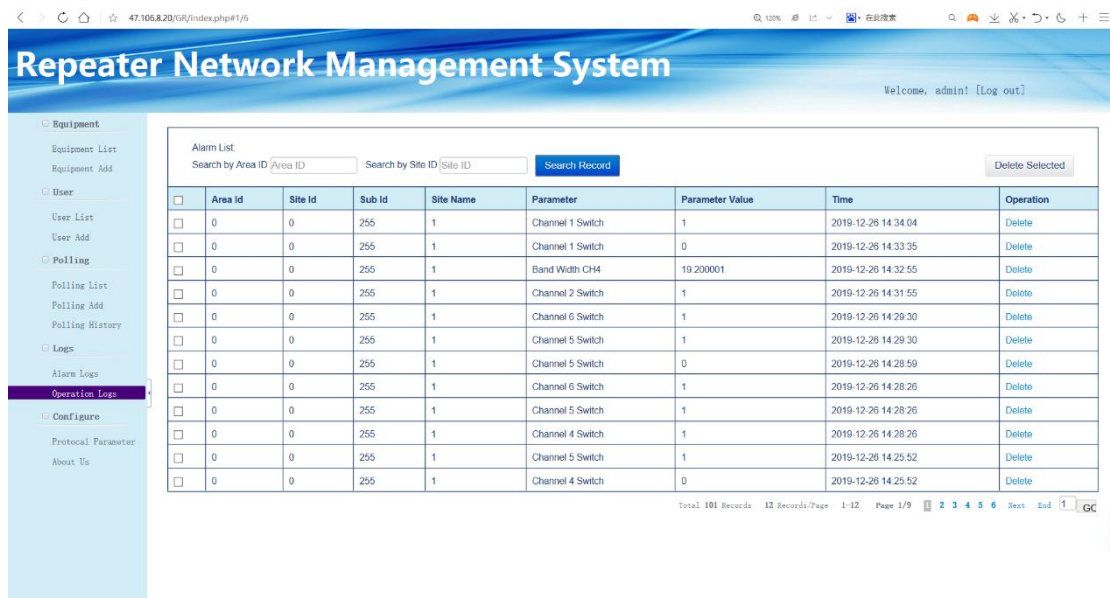
a) **Alarm List** lists out the alarm history.

b) **Operation Logs** record the overall operation history to the Repeater.