

# MBSC NMS User Manual



# Index

|                                   |    |
|-----------------------------------|----|
| 1. Abstract.....                  | 1  |
| 2. Function Item .....            | 1  |
| 3. Function Introduction.....     | 2  |
| 4. System Configuration.....      | 3  |
| 5. Port Configuration .....       | 4  |
| 6. User Management.....           | 5  |
| 7. System Structure.....          | 6  |
| 8. Connecting.....                | 7  |
| 9. Device Monitor .....           | 8  |
| 10. Parameter Configuration ..... | 10 |
| 11. Alarm Management.....         | 11 |
| 12. Diary Management.....         | 12 |
| 13. Notes.....                    | 12 |

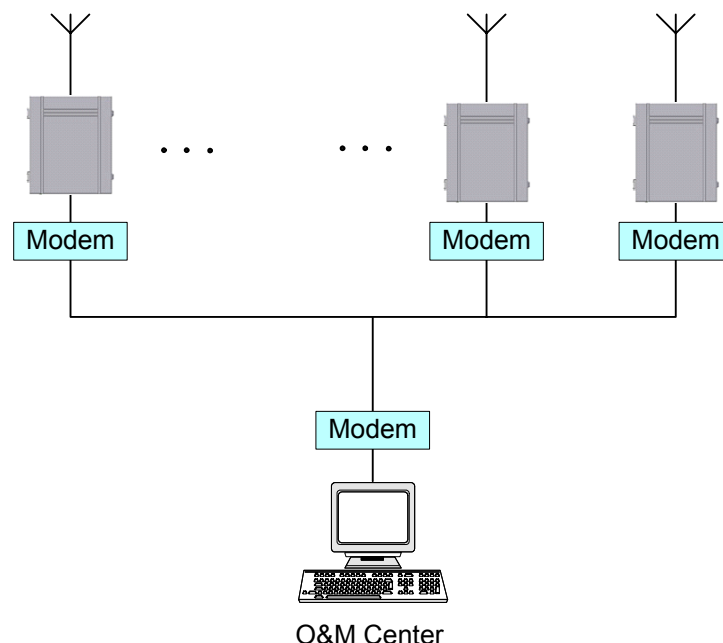
# MBSC Network Monitor System

## User Manual

### 1. Abstract

MBSC network monitor system consists of network monitor center, MODEM card and MBSC, in which network administrator connects with MBSC by MODEM through telecom cables. Picture 1 below gives a structure diagram of it.

MBSC network monitor center is one of the most important parts of network monitor system. It consists of computer sever, Modem, connecting cables etc.



Picture 1, Network Monitor System Structure

This network monitor system is programmed by advanced computer language, which should be applied to windows XP operation system. It owns a very friendly operating interface, which makes the operation items very clear and easy to master. It also takes the stability and safety of system into consideration when designed.

### 2. Function Item

1) Function Introduction: Explain each function of network monitor center in detail;

- 2) System Configuration: Describe the configuration of some functions in system;
- 3) Port Configuration: Describe the connecting methods between MBSC network monitor center and Modem;
- 4) User Management: Describe the 2 classes safety management system;
- 5) System Structure: Explain how to set the sketch structure of system;
- 6) Devices monitor: Describe the realization of MBSC monitor function;
- 7) Parameter Configuration: Explain how to set MBSC parameters;
- 8) Diary management: Explain how to save and print data;
- 9) Notes: Notes for using MBSC network monitor center;

### **3. Function Introduction**

With the help of other devices in monitor system, MBSC network monitor center can realize the monitor function for the whole system. It can also get convenient and high efficiency monitor and configuration function by changing parameter configuration. The device monitor and parameter setting solutions provided highly improved the security guarantee of system.

MBSC network monitor center consists of device monitor function and parameter setting function mainly. Device monitor function refers to the monitor of all the MBSC of the monitor system, through which user will get the operation status of all of the MBSC devices in order to find the problems ASAP; At the same time by the complete error warning settings provided by system, users will get the error information and solve it rapidly. Parameter setting refers to the setting of changeable parameters of each MBSC in system and the check of the parameter configuration now. This helps users to get best performance and convenient way of management.

Note: while using MBSC network monitor center, different users will have different limits in right, which means a lot to security management. More details about it, please refer to the users management.

## 4. System Configuration

System configuration refers to the parameters settings of system operation environment, which include language selection, way to dial, record keeping time, warning sound, periodic monitor time, re-send mechanism, repeat alarm setting and Modem connecting out of time setting.

“Language selection” refers to selecting different language according to different operation environment. Only English and Chinese are available currently.

“Way to dial up” refers to choosing normal dial number method or special dial number method according to different operation environment. Normal dial up method refers to the method that MBSC network monitor center dial the telephone number of the MBSC needed directly. Special dial up method refers to the method that MBSC network monitor center connects with MBSC using communication port directly, no need to dial telephone number respectively.

“Record keeping time” refers to the longest time to keep the record. When the time is over the longest time set, system will treat the record as overdue and will erase them automatically.

“Warning sound” refers that whether there is a warning sound or not when there is malfunction in MBSC device.

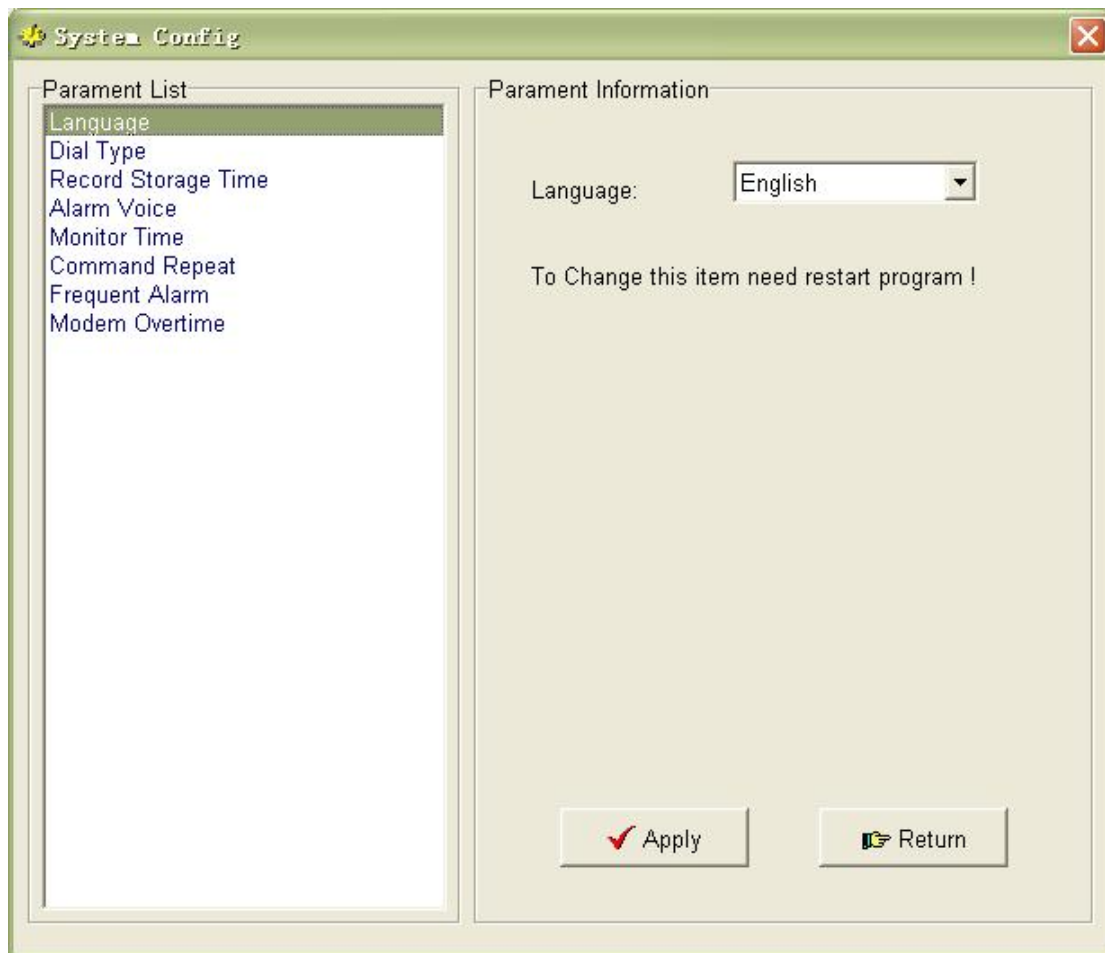
“Periodical monitor time” refers to whether system will do a periodical device status check. The periodical time can be set to 4, 8, 12, 16, 20 and 24 hours.

“Resend mechanism” means whether system will resend the command which doesn’t get ACK from MBSC or not. User can set it to resend or not.

“Repeat alarm setting” refers to the judging criteria of repeat alarm; alarm monitor period setting and alarm times during the period setting are included.

“Modem connecting out of time setting” refers to the Modem connecting over time setting, when MBSC network monitor center tries to dial the telephone number of MBSC device.

The operating interface is shown in picture 2 below:



Picture 2, the operating interface of system configuration

Note: After changing any setting, please click" Apply" key to save the settings.

## 5. Port Configuration

Port configuration refers to the parameter setting of the connecting port between MBSC network monitor center and Modem. First, make sure that MBSC network monitor center has been connected with Modem rightly and then assign different ports and set the baud rate of each port according to different connecting situation. These settings will affect whether MBSC network monitor center can communicate with MBSC rightly or not. If they can't communicate with each other rightly, system will pop up a setting interface, which is shown in picture 3 below, to ask user to check the parameter settings. After port is set successfully, the interface will disappear automatically. Otherwise, it will keep staying on the screen.



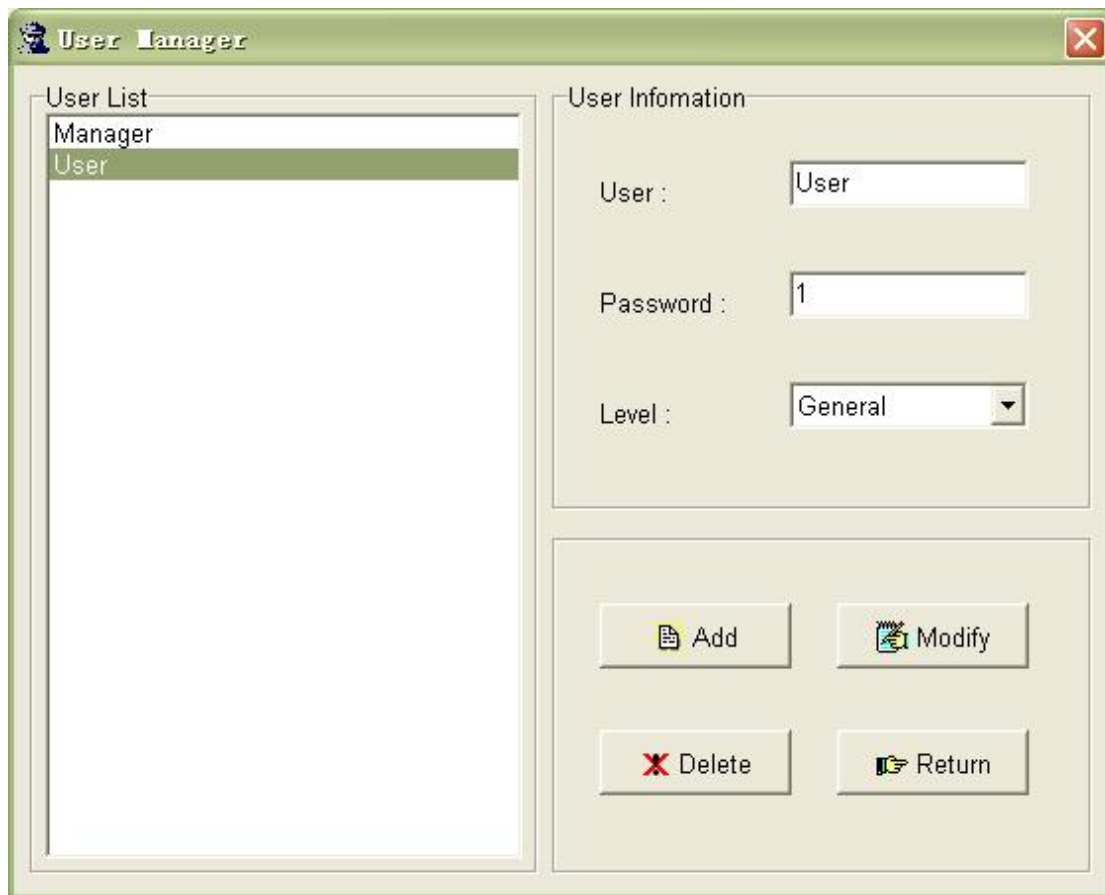
Picture 3: Port Parameter Setting Interface

## 6. User Management

Users of MBSC network monitor center are divided into two category, senior user and normal user. This system software gives no limit to senior user, while it gives limits like can't set the parameters, can't set system sketch map and system parameter, can't authorize other users, etc. to normal user. These limits to normal user, which highly guarantee system security, make great sense in system security and system stability.

When normal user comes up with problem while using, he should report this problem to senior user. If senior can't solve the problem either, please feel free to contact us directly. Please check more help part for the contacting method.

The operating interface is shown in picture 4 below.



Picture4, Operating Interface of User Management

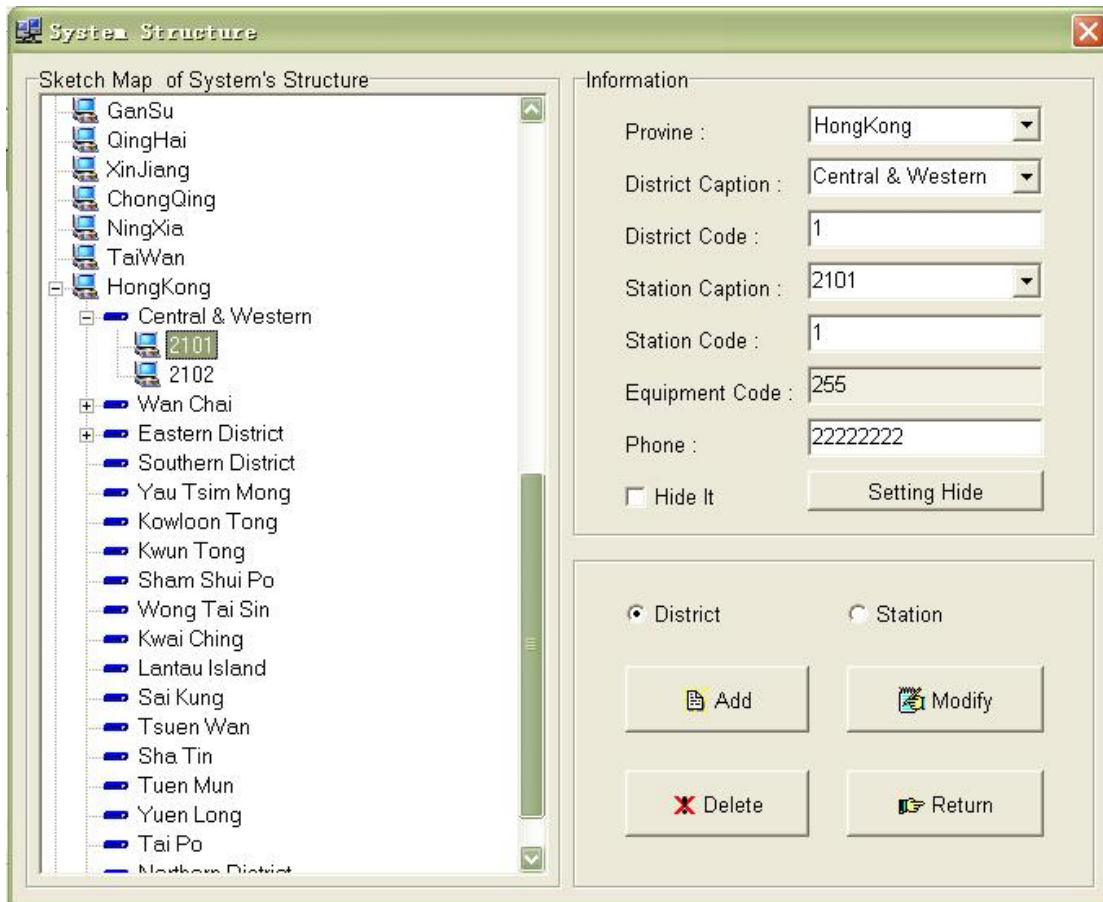
## 7. System Structure

System structure consists of building MBSC data information and building network monitor system structure.

Users first choose the items that need to be re-set and then add, modify or delete area and MBSC information manually. The list table at the left side of interface is current system structure, while the one at the right side of the interface gives information on area or device. Note that area name and address as well as MBSC name can't be repeated to prevent the case that users mistake with each other.

Hidden function: first, click province, area or MBSC; second, choose "Hide it" at the right side of interface and then click "Setting Hide" to confirm the action. Method to show the item is opposite with the method to hide it.

The operating interface is shown in picture 5 below:



Picture5, Operating interface of system structure setting

## 8. Connecting

Click device in MBSC list to choose the device you want to connect with and then click “connect” button to connect. At this time, MBSC network monitor center will send connecting information to device chosen using telephone number given in system structure. If it can’t connect with the device chosen in time given by system, it will give note of “connecting fail”. If it connects with the device chosen successfully in given time, MBSC monitor center then can monitor the MBSC device. The connecting interface is shown in picture 6 below.



Picture 6: Connecting Interface

## 9. Device Monitor

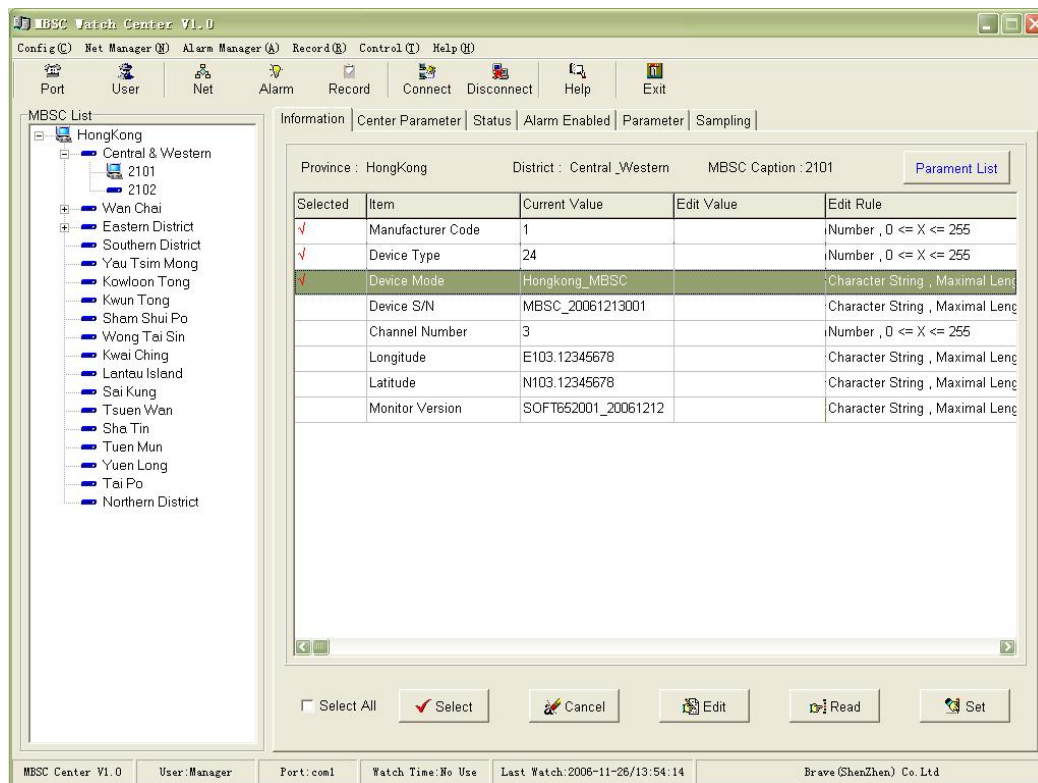
As one of the most important functions in MBSC network monitor center, device monitor provides detailed and complete system monitor function. Users can manage the operation status of all devices in system according to the monitor contents and information given by system.

Monitor contents consist of 6 parts, which are device information( readable; only can be set when using special dial number method), network administrator parameter( readable and settable), alarm enable( readable and settable), alarm and status( reportable, readable but unable to set), device parameter ( readable and settable) and by-time sample data ( readable but unable to set). They are all listed in the category related and users can set them freely as needed. As to the alarm existed items, it will be given using red letter to inform users. Users also can get the device status according to alarm management.

“Device monitor parameter list” is given by itself to separate with other items. When MBSC is added into MBSC network system, MBSC network monitor center will send commands respectively to read the monitor parameters list when users click “device monitor parameter list” button.

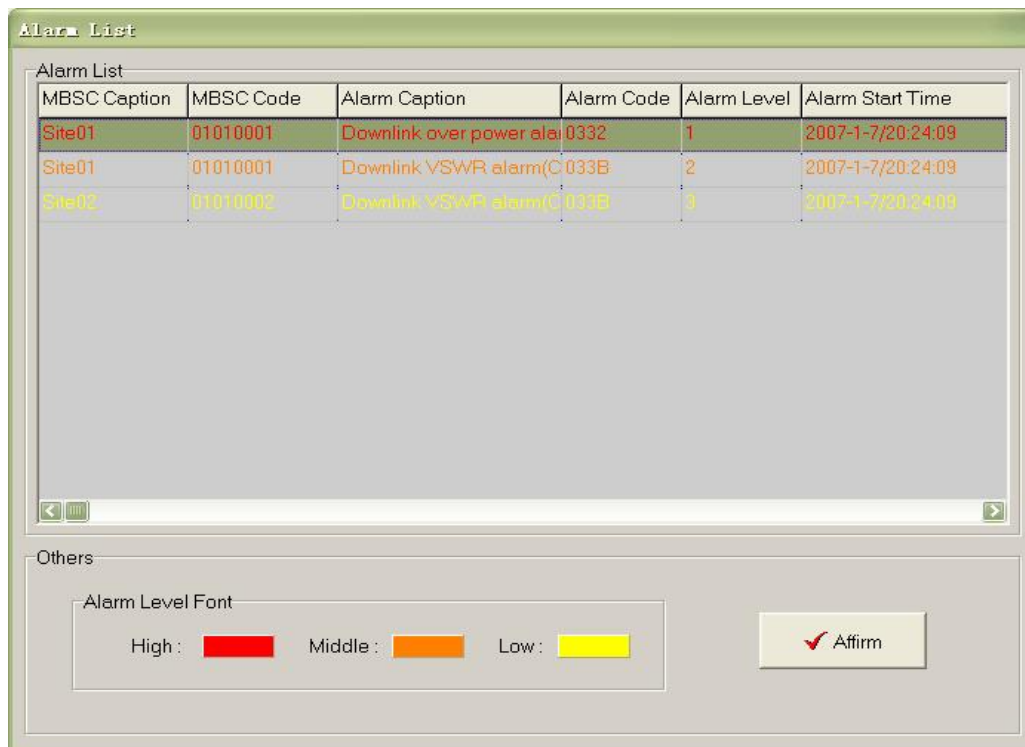
Device monitor status identification: Whether the device monitor is successful or not will be shown in the status menu.

The operating interface is shown in picture 7 below.



Picture 7, Operating interface of device monitor

If there is alarm in device monitor, it will pop up an alarm list and will give the alarm contents and alarm class. All alarms can be cleared after clicking “confirm” button and after that, the alarm list will disappear automatically. The interface of alarm list is shown in picture 8 below.



Picture 8, Interface of alarm list

## 10. Parameter Configuration

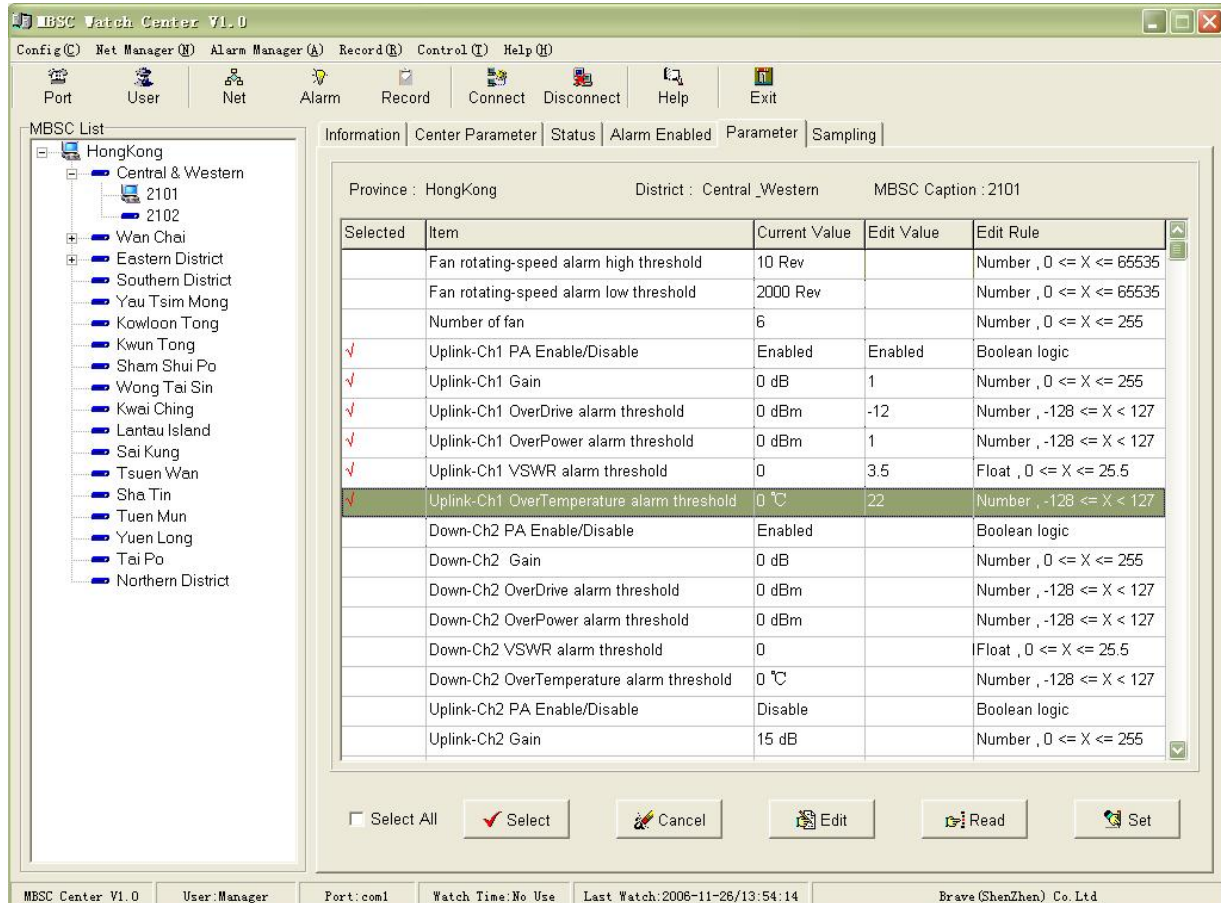
Being one of the most important functions of MBSC network monitor center, parameter configuration let users set the items settable in system, which highly strengthen system function by modifying or renewing device setting in system rapidly, conveniently and accurately.

Parameter configuration consists of device information (readable and only can be set using special dial number method), network administrator parameter (readable and settable), alarm enable (readable and settable) and device parameter (readable and settable).

The basic rule for parameter setting is “first read and then set”. That is user only can set the parameters that has been read out. The detailed parameter setting rule is referred to editing rule of each item.

Setting successful or not judgment: there is a parameter showing the setting result in status menu.

The operating interface is shown in picture 9 below.



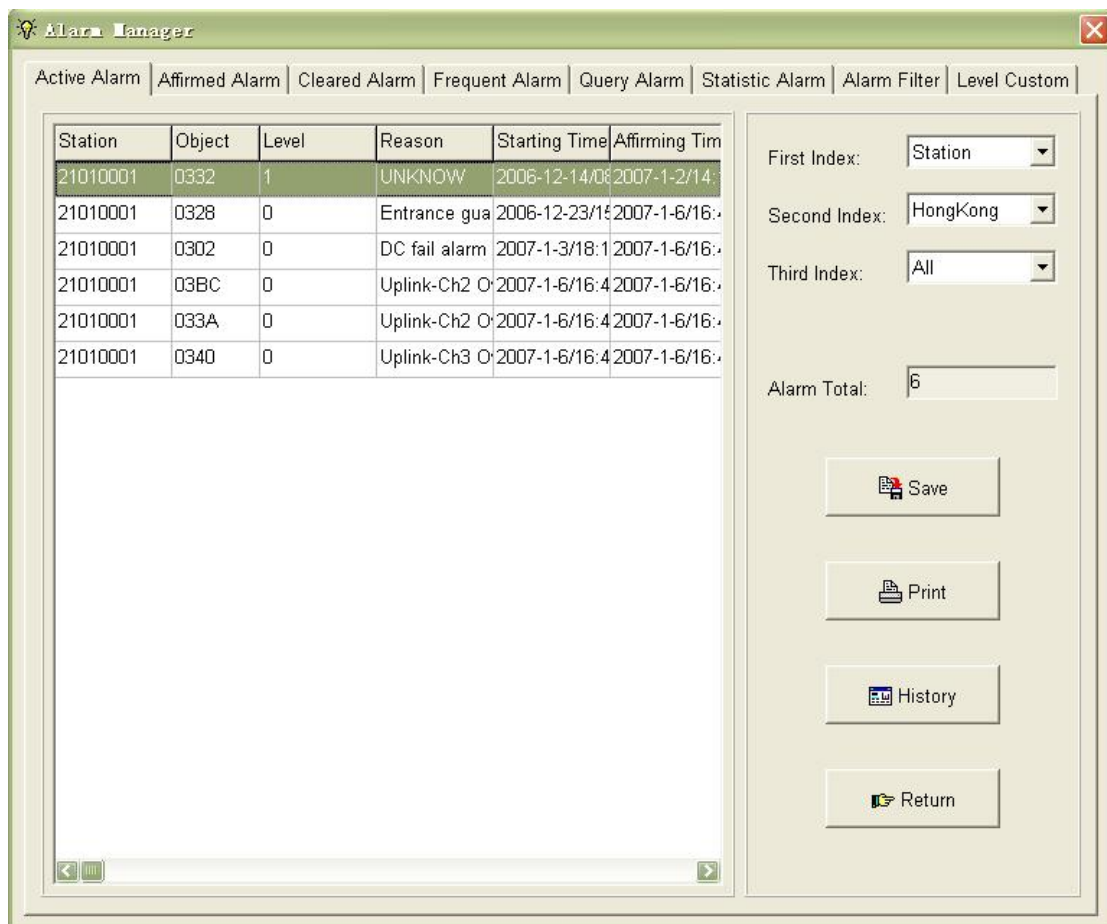
Picture 9, Operating interface of parameter configuration

## 11. Alarm Management

Being one of the most important functions of MBSC network monitor center, alarm management provides detailed and complete system alarm inquiry. Users can check the alarm status needed freely by different filtering conditions and then manage the operation status of all devices in system.

Alarm management consists of active alarm inquiry, affirmed alarm inquiry, deleted alarm inquiry, repeat alarm inquiry, all alarms inquiry, statistic alarm analysis, alarm filtering conditions setting and alarm class definition.

Alarm management consists of transcript and print, which is very useful to record and save data. The operating interface of alarm management is shown in picture 10 below.

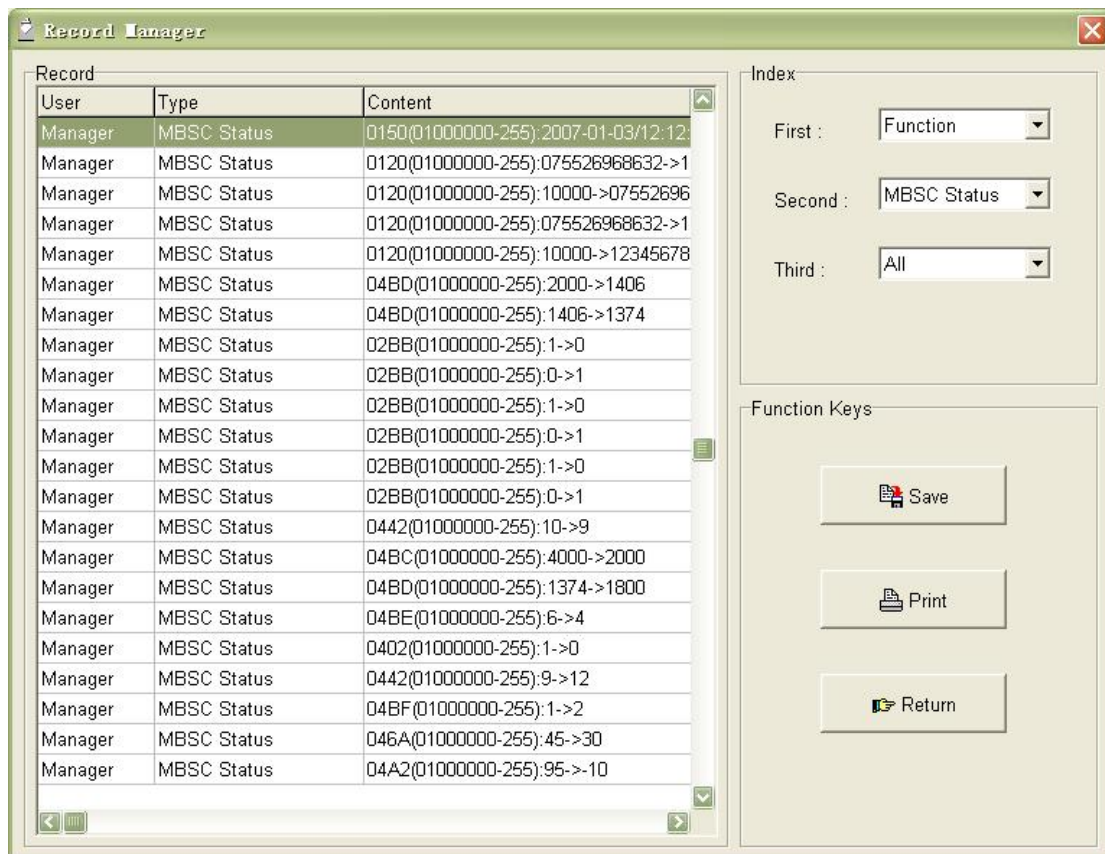


Picture 10, Operating interface of alarm management

## 12. Diary Management

Diary management consists of dairy inquiry and print function. System will save the monitor result and main actions of users every day as diary in order to be checked and printed. Diary can be indexed and classified by date, device monitored, parameter setting etc. It also can be printed. System will delete diary that is overdue according to the record keeping time set in system.

The operating interface is shown in picture 11 below.



Picture 11, Operating Interface of Diary Management

## 13. Notes

- Before setting the parameter, users should have a good understanding on functions and configurations of MBSC network monitor system and should be familiar with the settings and function of every parameter. As some parameters will affect the normal operation of device directly, thus users should be very cautious when doing some actions to them. Every time modifying a parameter,

system will write it into diary for future check. About how to save and check the record, please check the diary management. Parameter modifying function is open to senior user only. For the detailed right limits definition, please check user management.

- Note: Users should keep the user password safe to avoid the system mess and the user loss accordingly because of the mismanagement.
- Before users try to re-configure system structure, they must get a detailed understanding of this function. Or there may be system structure configuration mess problem, which will lead to the problem that it can't display the real structure of system.