Logic Machine系列产品培训资料及产品使用手册

V 1.0

（此版教程依据20170620固件版本编辑）

embedded automation

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调试前准备

embedded systems主要产品

embedded automation

Logic Machine

Logic Machine Ambient

Stream Player

调试前准备：硬件

供电：24v直流

明纬直流电源

网线

不推荐使用KNX电源上的额外供电端口，易造成工作不稳定

调试前准备：软件

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chrome


Firefox


Safari


Internet Explorer

请使用纯净版浏览器来登录，避免发生无法登录的情况

Logic Machine Online在线测试平台

http://4n.lv:7999

Login：admin　　password：admin

通讯前准备：软件

Login name	admin
Password	admin
IP address	192.168.0.10
Network mask	255.255.255.0

PC本地连接：192.168.0.X

通讯前准备：软件

长按短于10s，重启设备

长按超过10s，IP地址恢复出厂设置

- *Press and hold for <10 sec* – reboot the device
- *Press and hold for >10 sec* – reset networking with IP to factory default
- *Press and hold for >10 sec and again press and hold for >10 sec* – full reset of configuration to factory defaults

长按超过10s后松开，再次长按超过10s，完全恢复出厂设置

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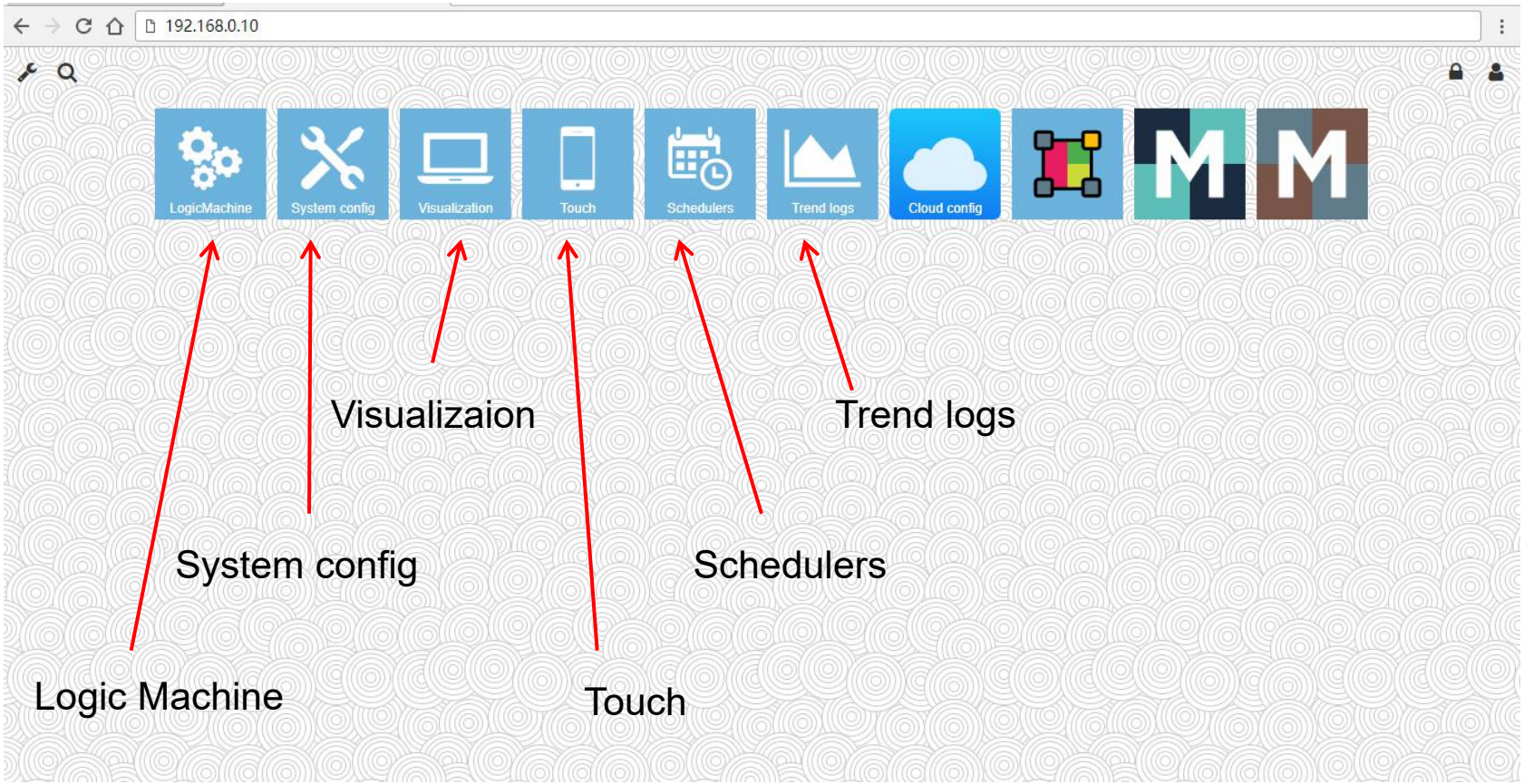
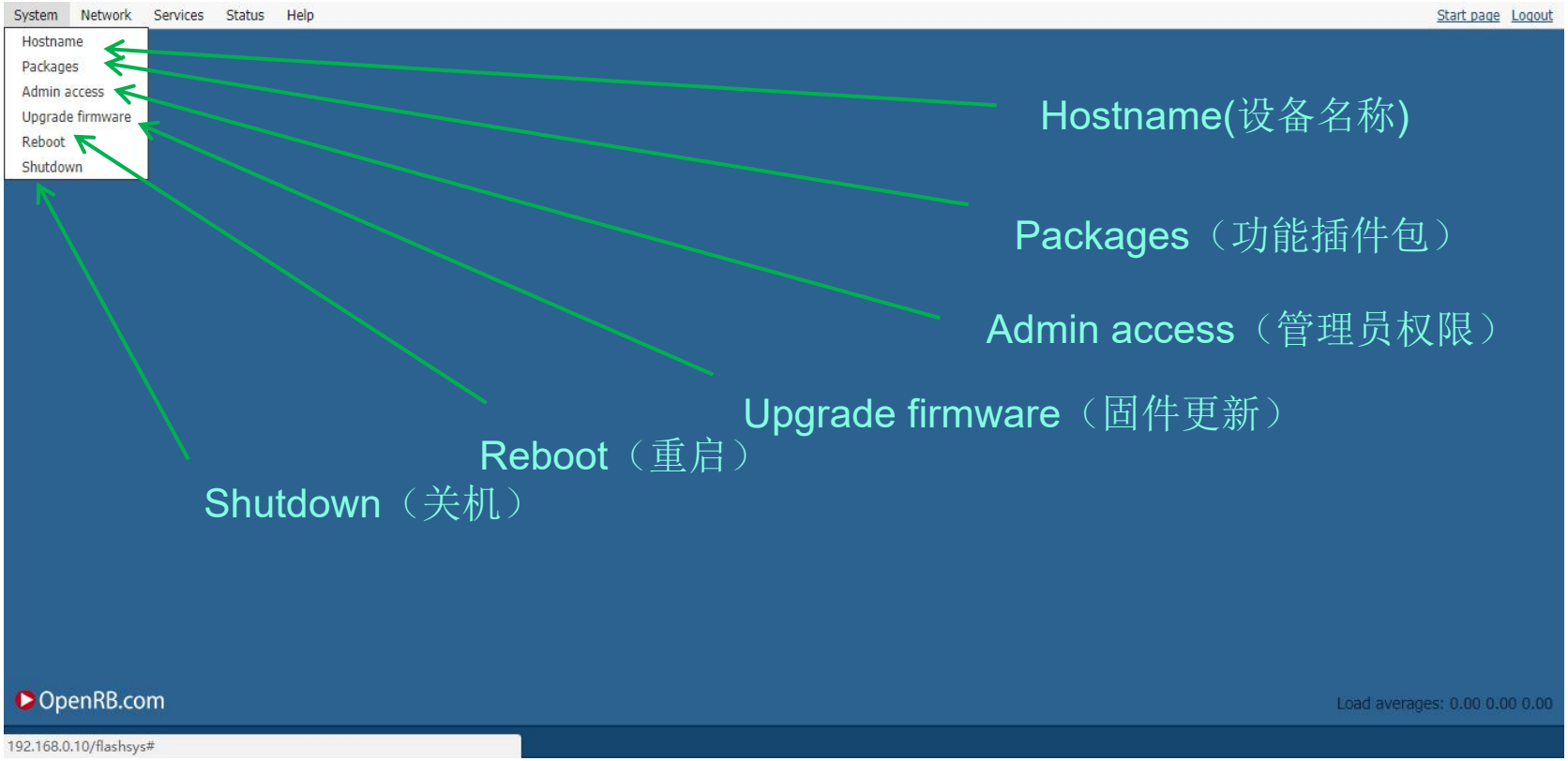
Systems config —— 系统设置

Start page > Systems config

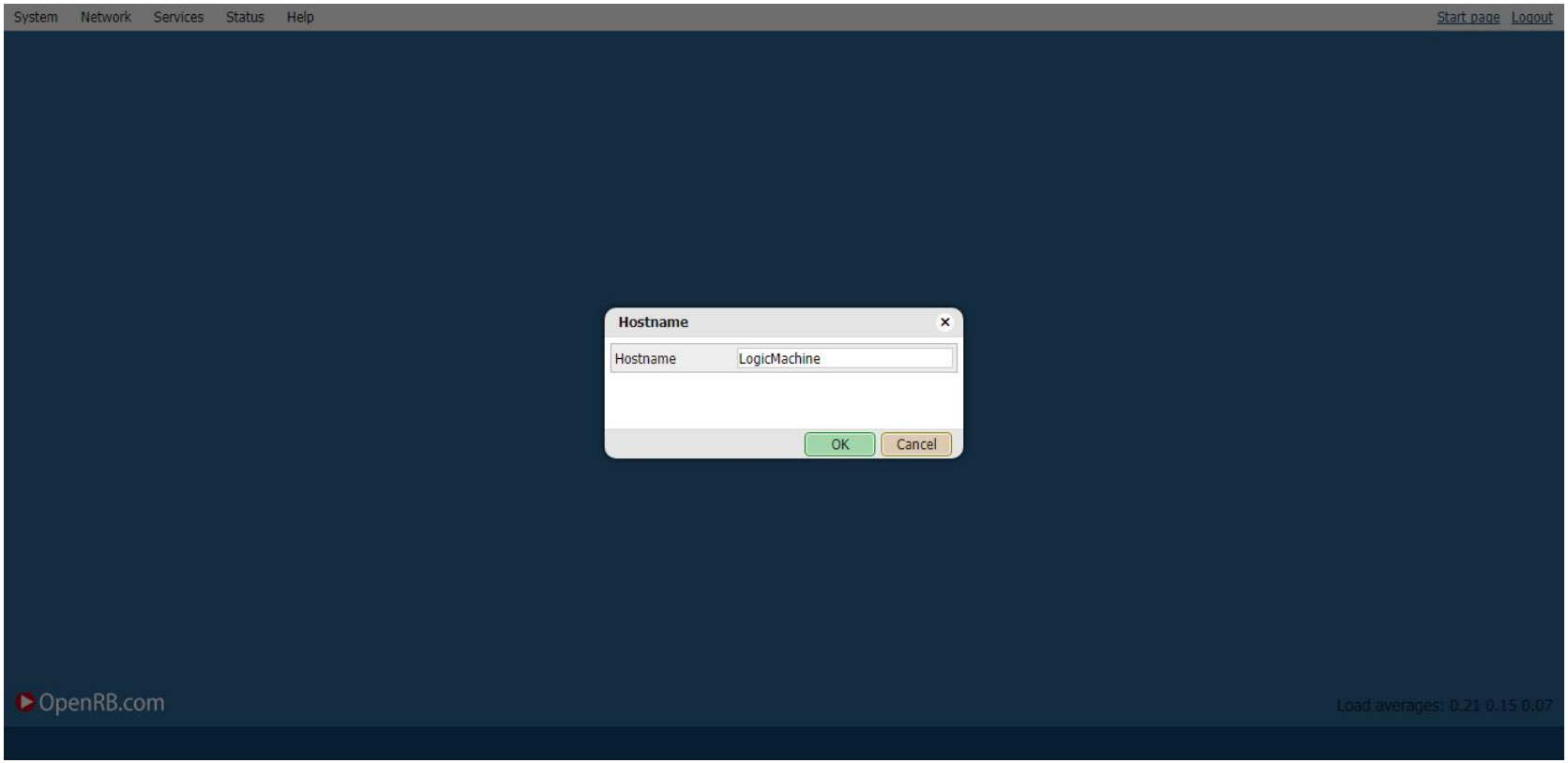


System config

System config > Systems

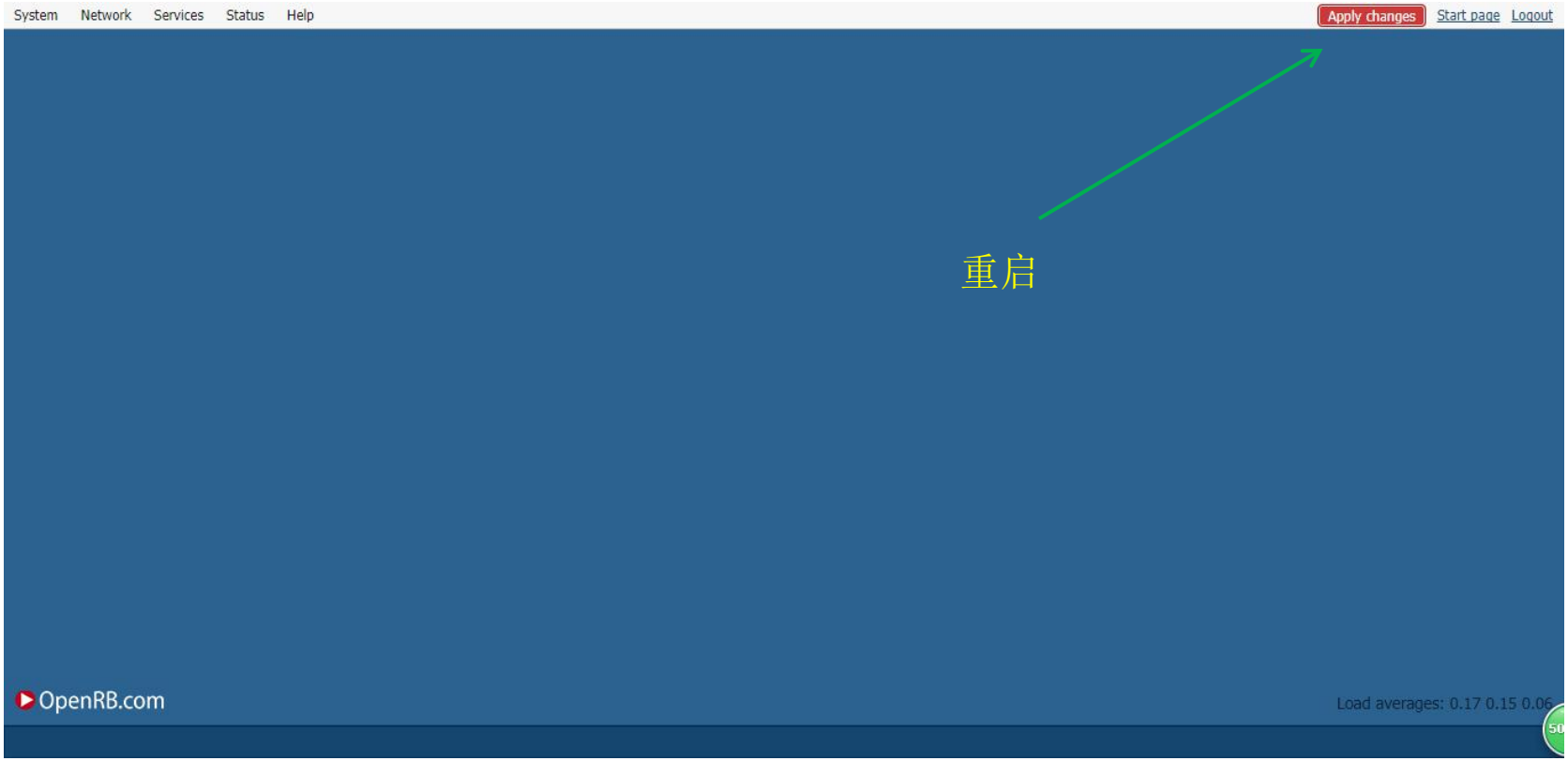


System config > Systems > Hostname



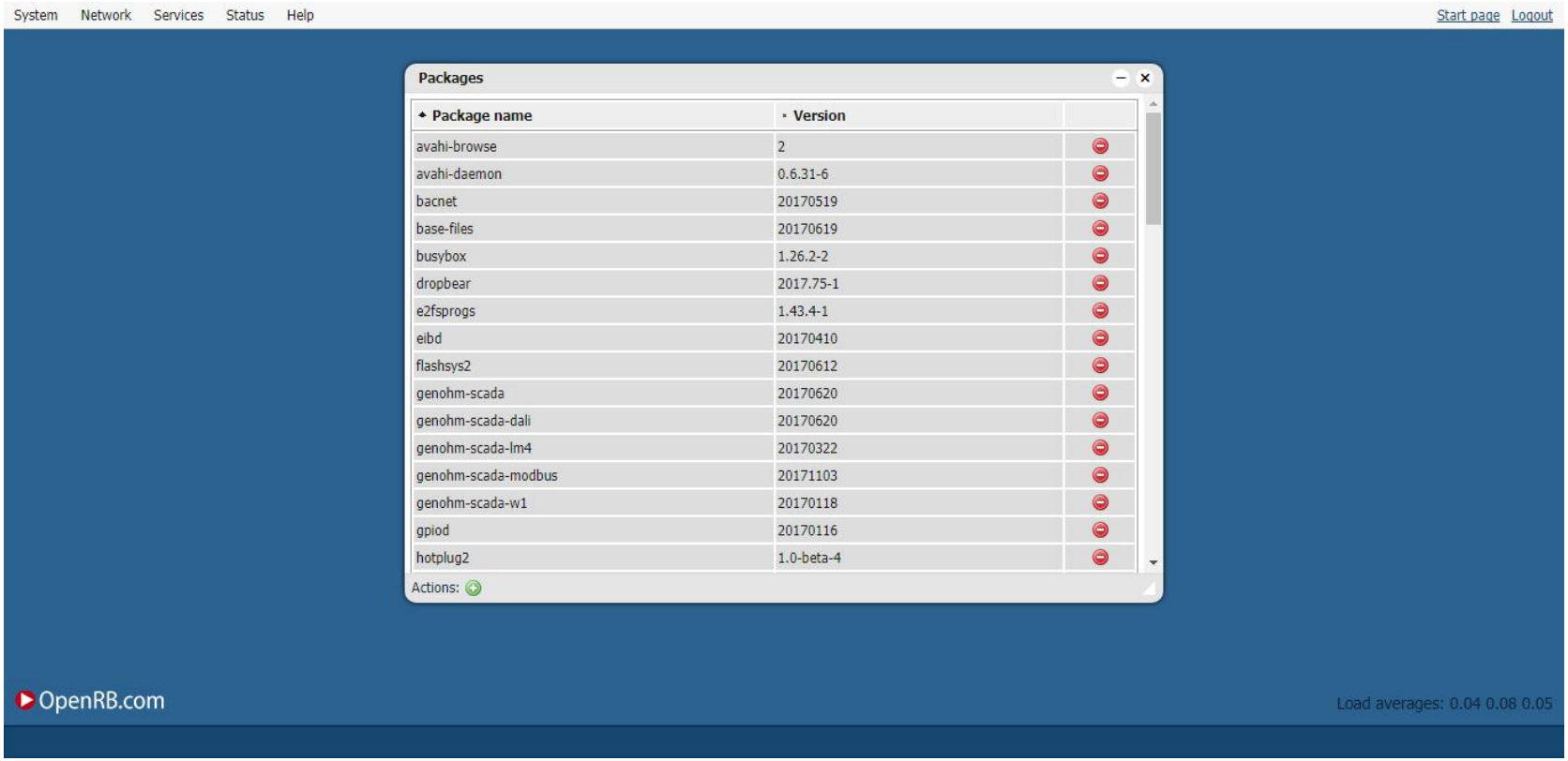
System config > Systems > Hostname

embedded automation



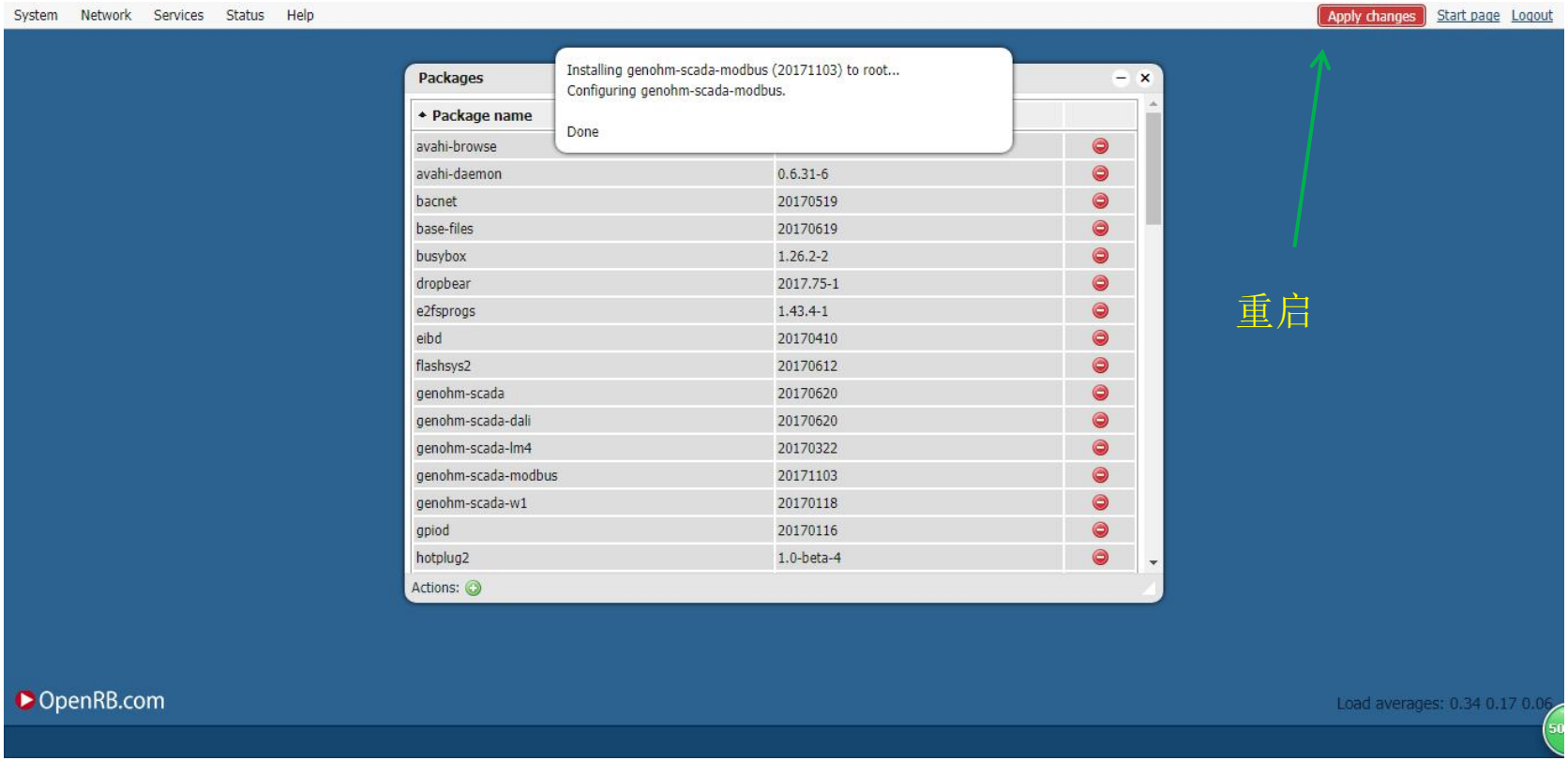
System config > Systems > Packages

embedded automation



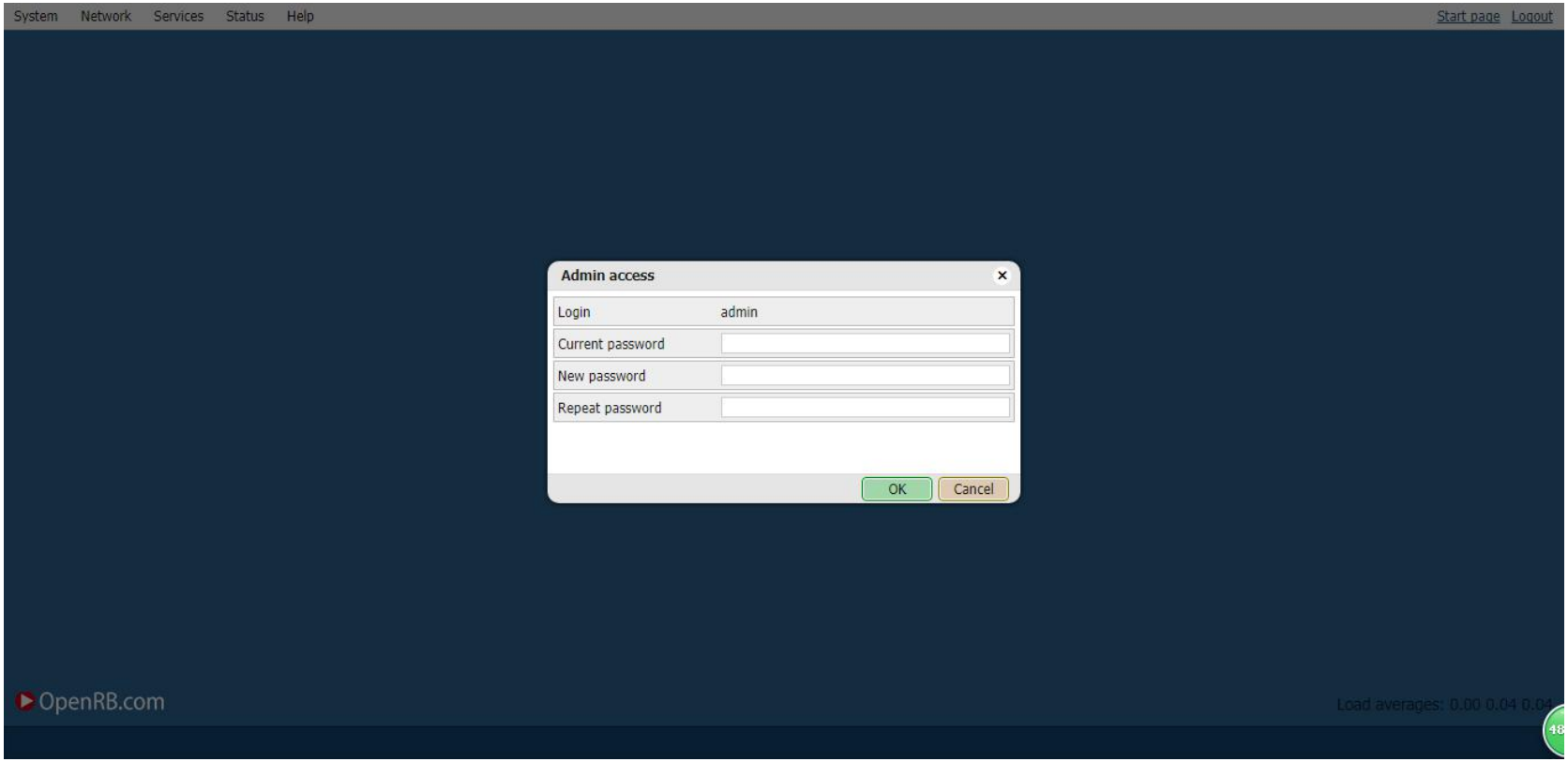
System config > Systems > Packages

embedded automation



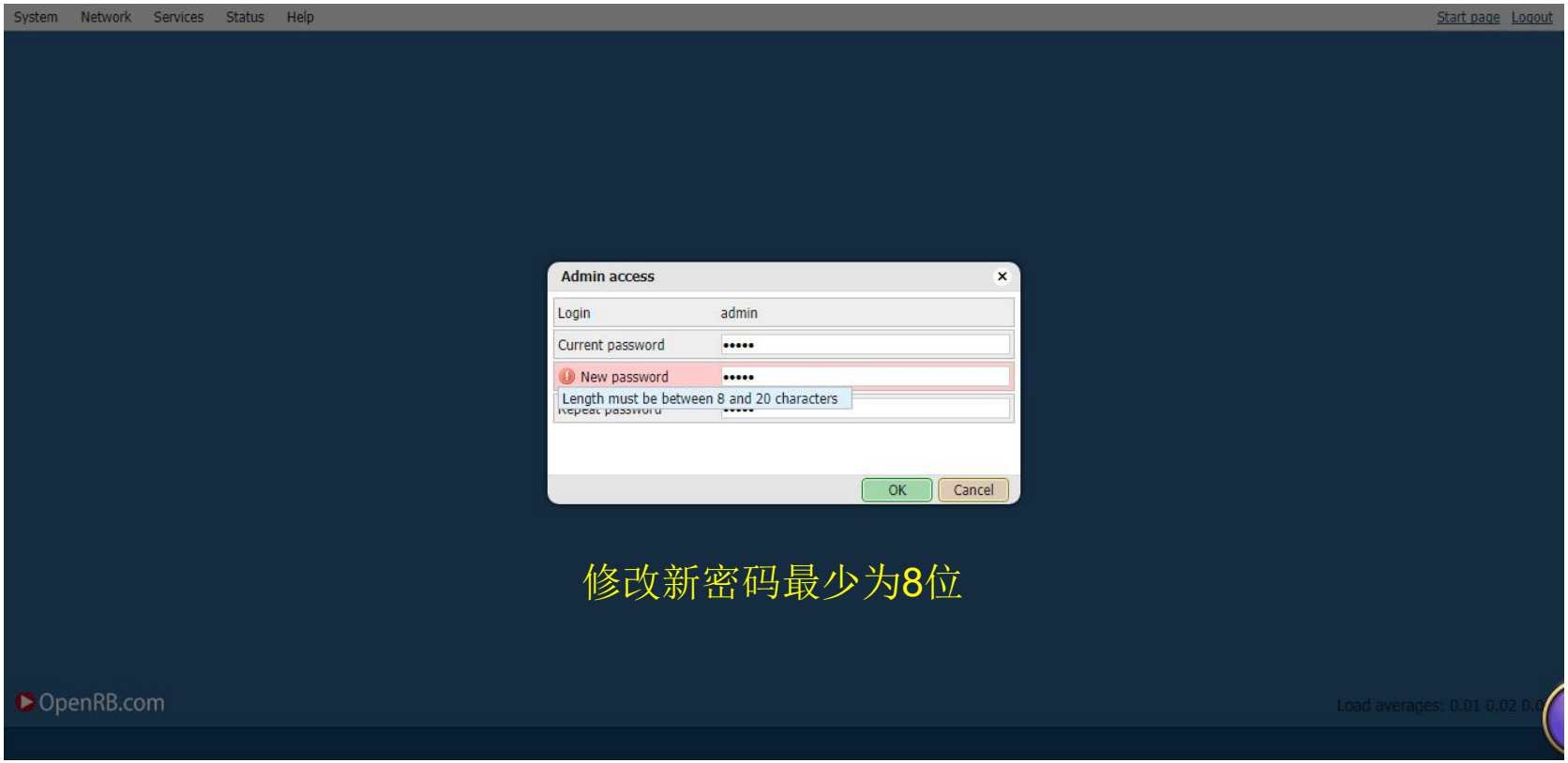
System config > Systems > Admin access

embedded automation



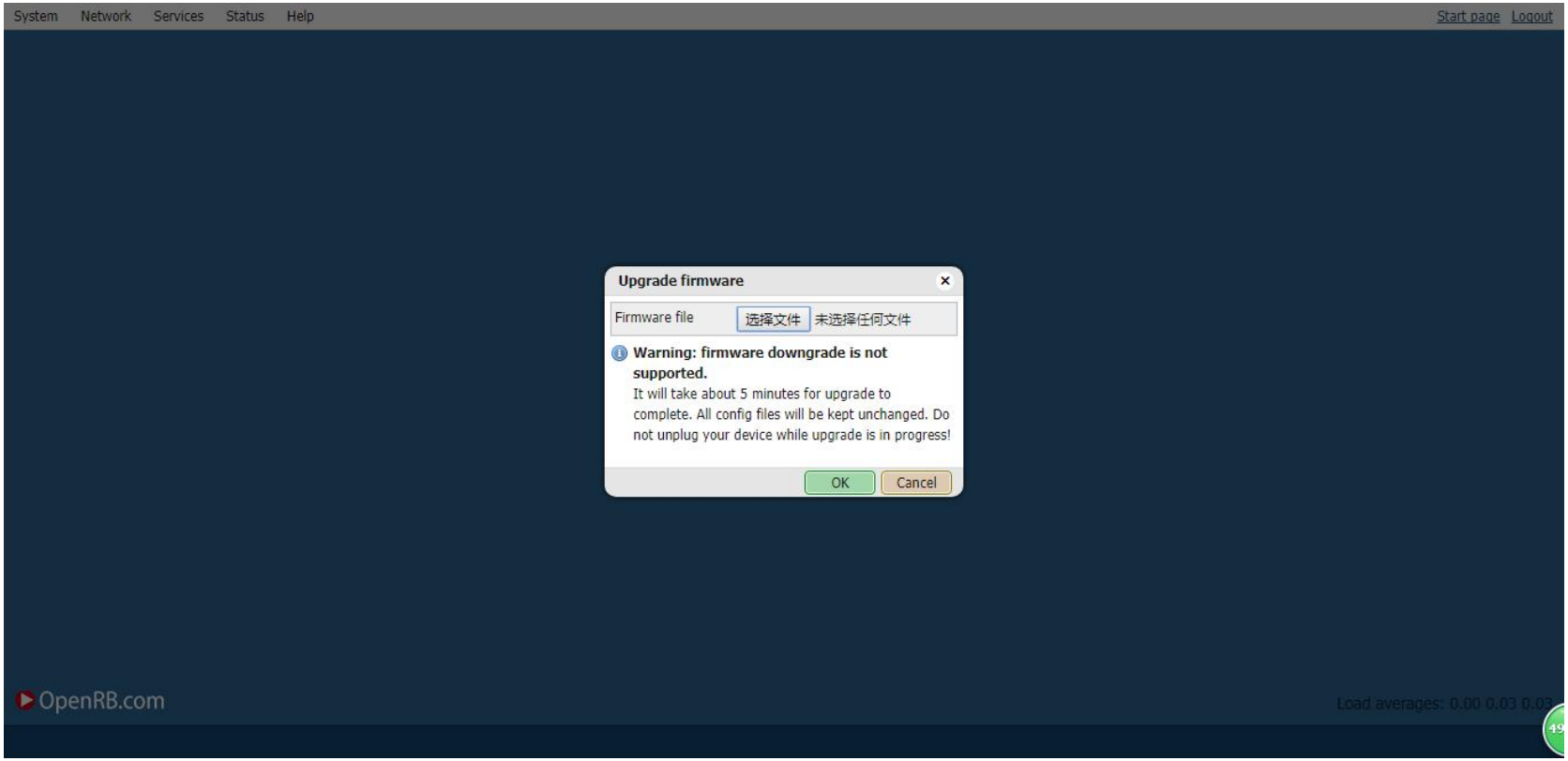
System config > Systems > Admin access

embedded automation



修改新密码最少为8位

System config > Systems > Upgrade firmware



System config > Systems > Upgrade firmware

等待约5分钟，待更新后完成设备重启，再重新登录

System config > Systems > Reboot

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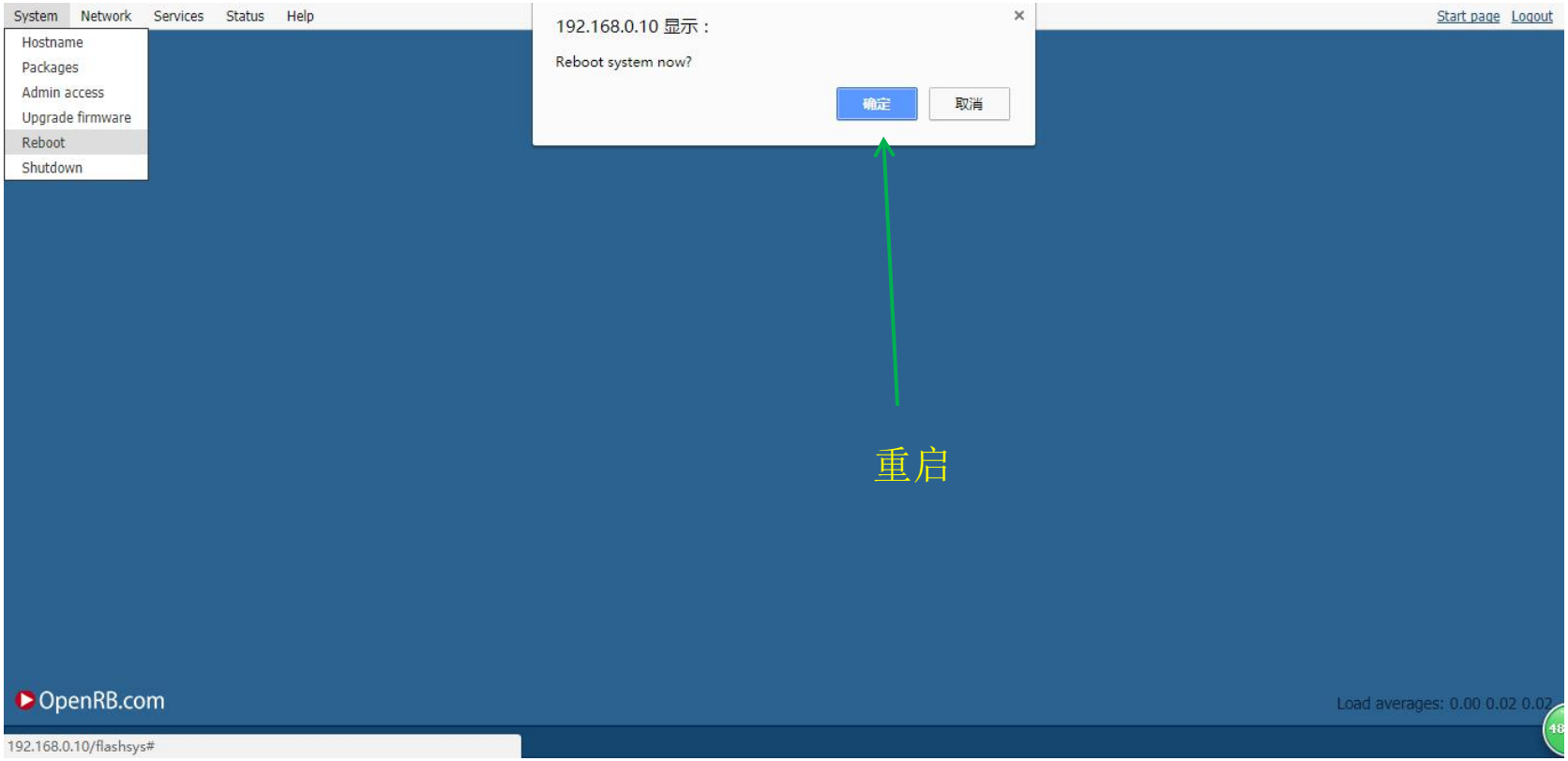
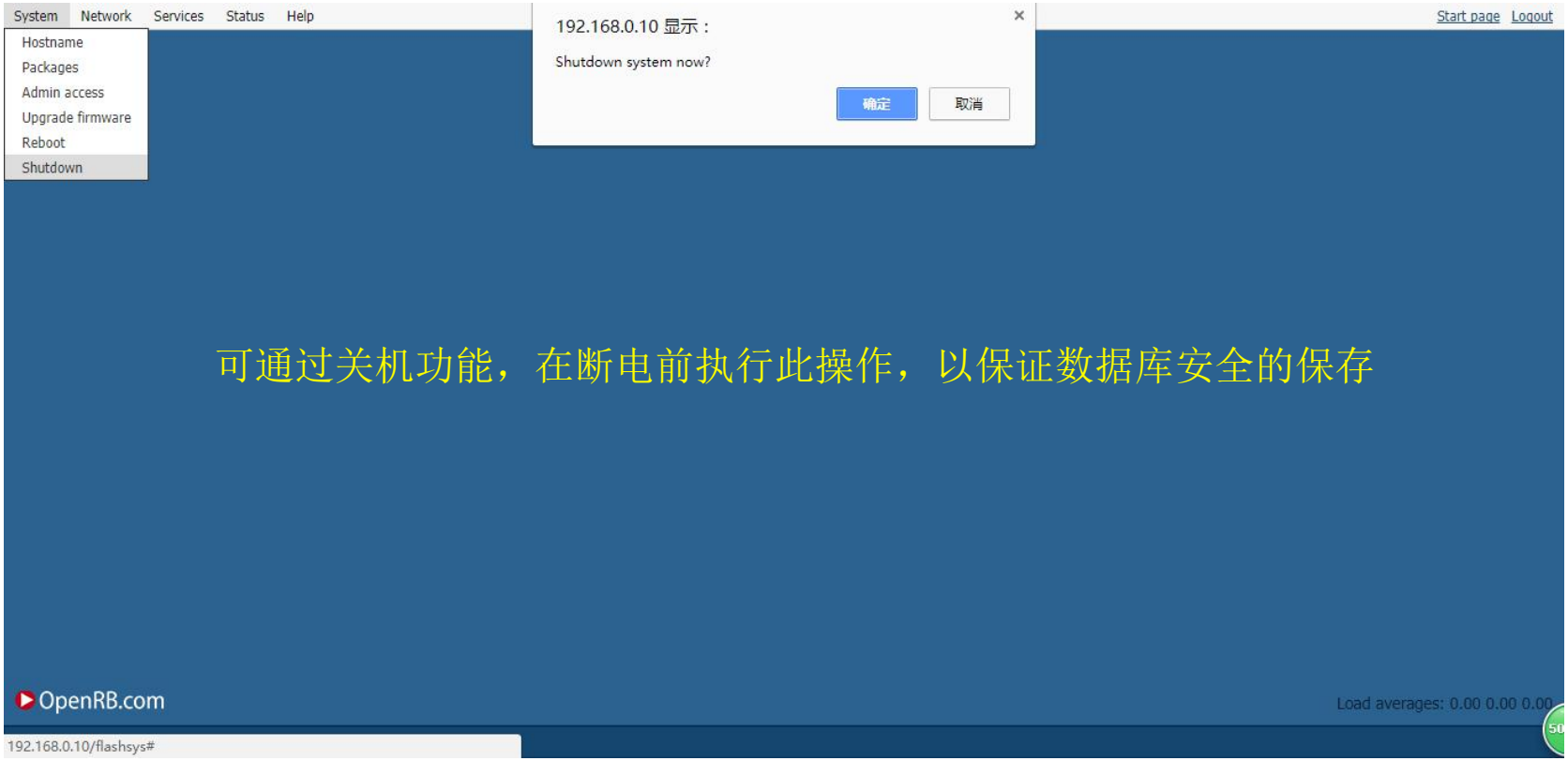
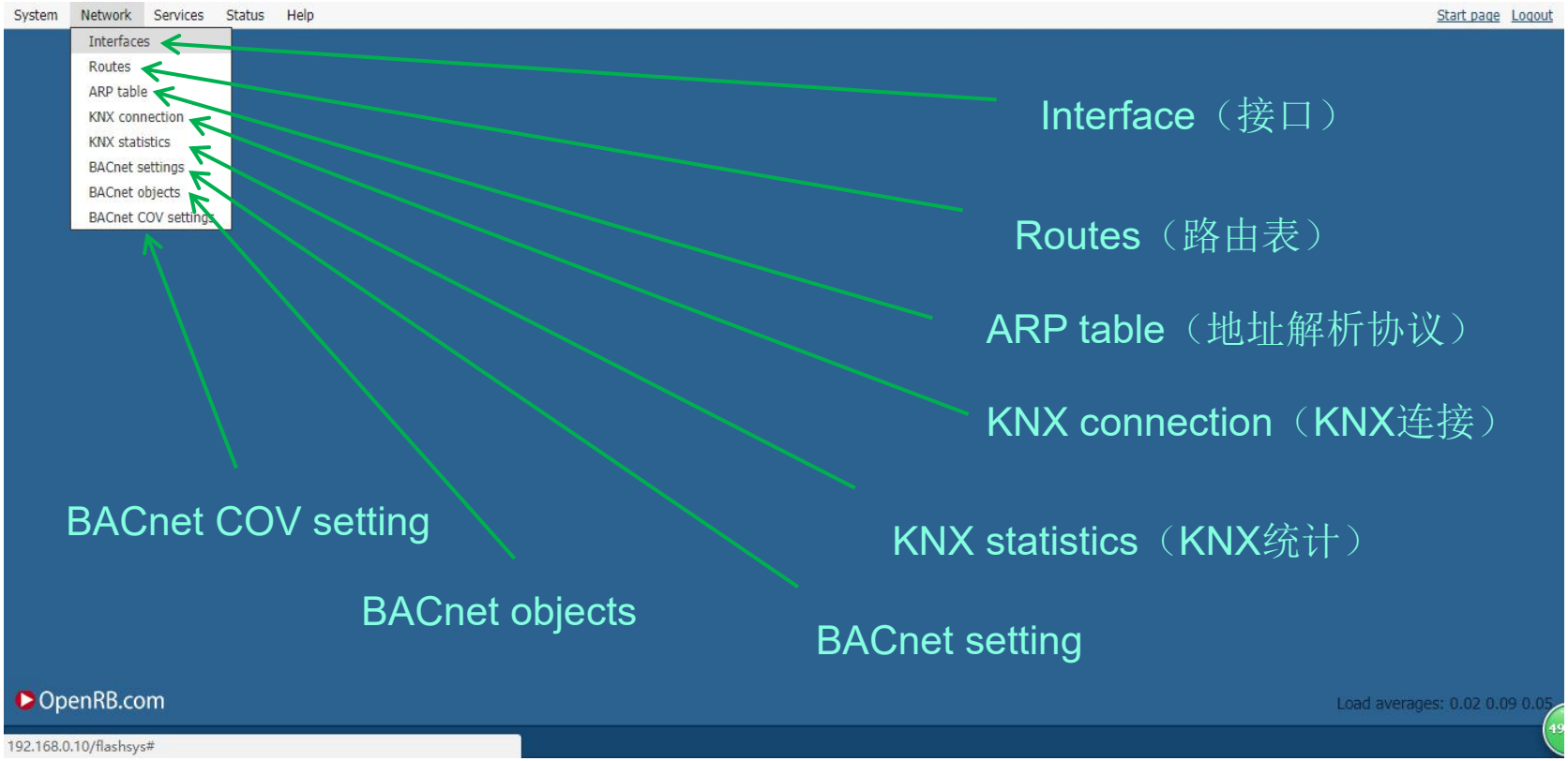


System config > Systems > Shutdown

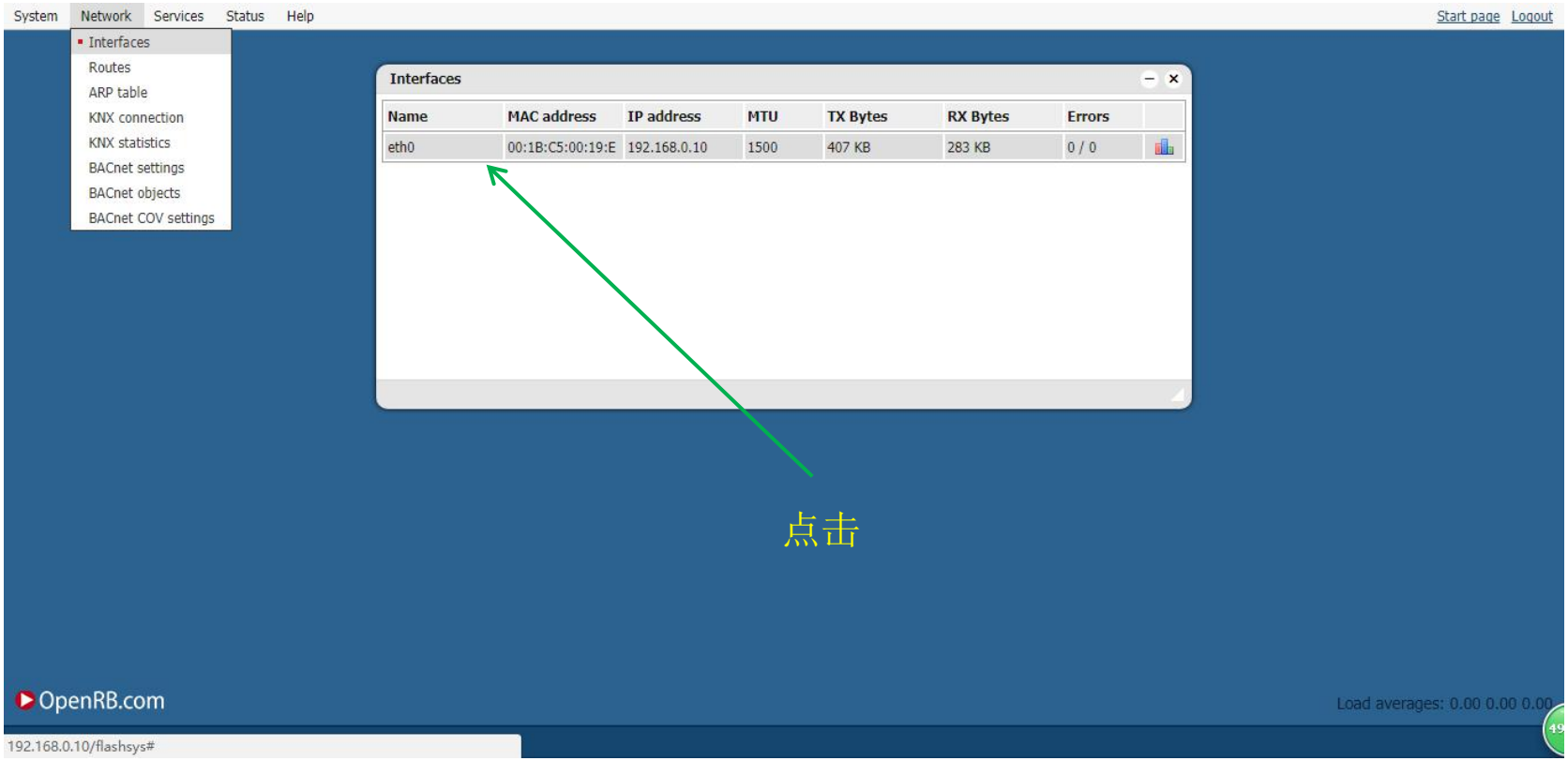


System config > Network



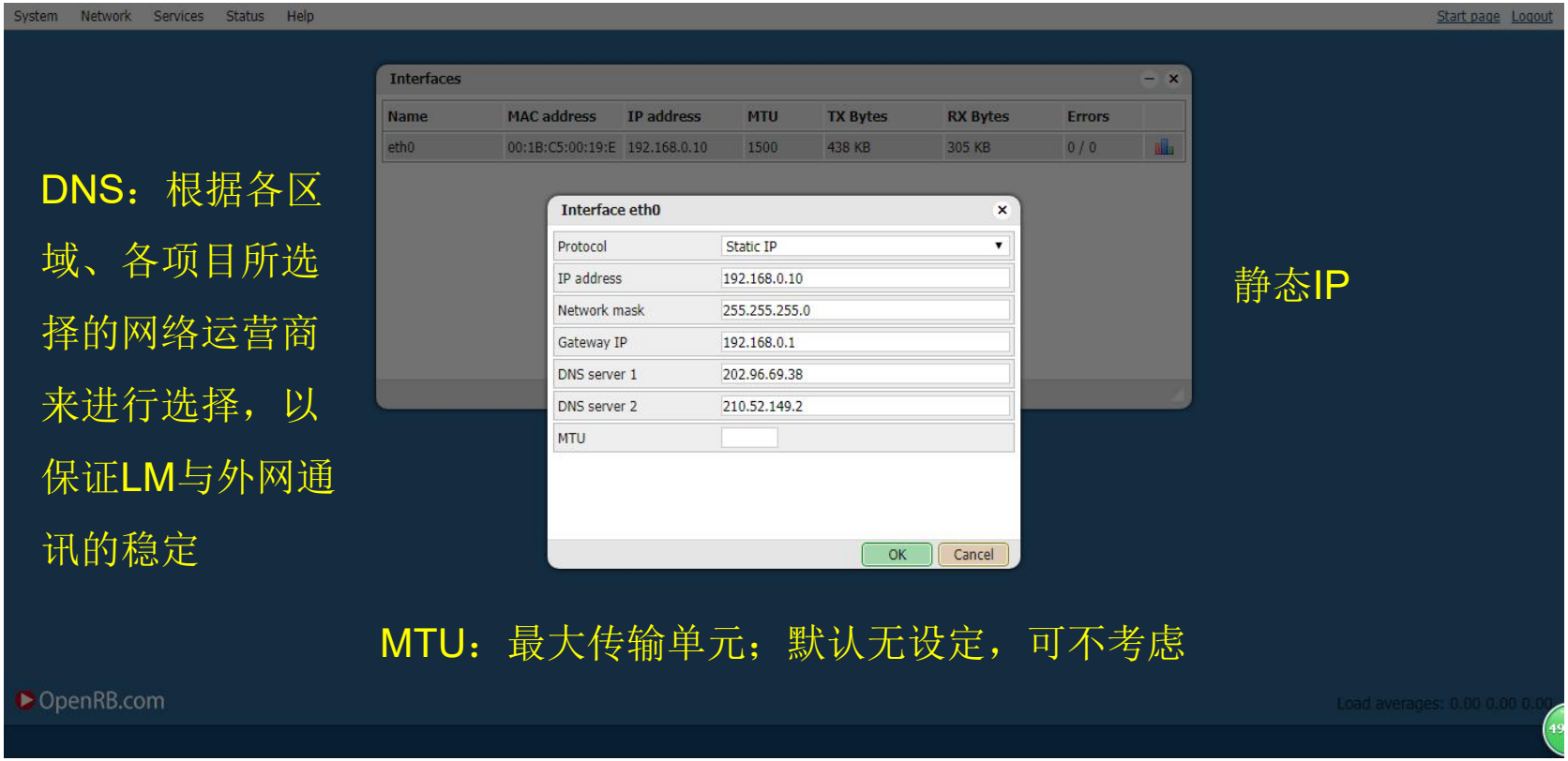
System config > Network > Interfaces

embedded automation



System config > Network > Interfaces

embedded automation



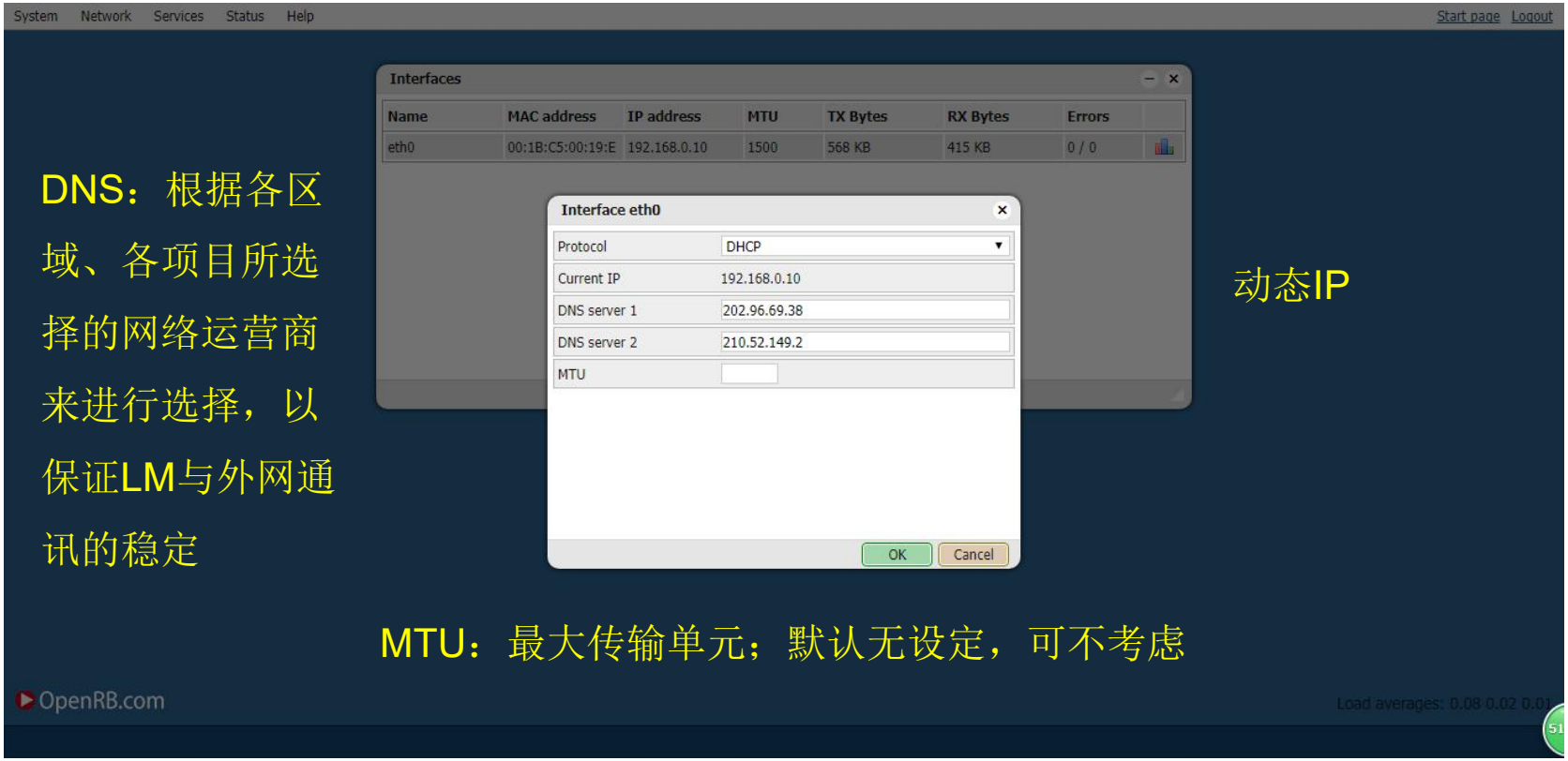
DNS：根据各区域、各项目所选择的网络运营商来进行选择，以保证LM与外网通讯的稳定

静态IP

MTU：最大传输单元；默认无设定，可不考虑

System config > Network > Interfaces

embedded automation



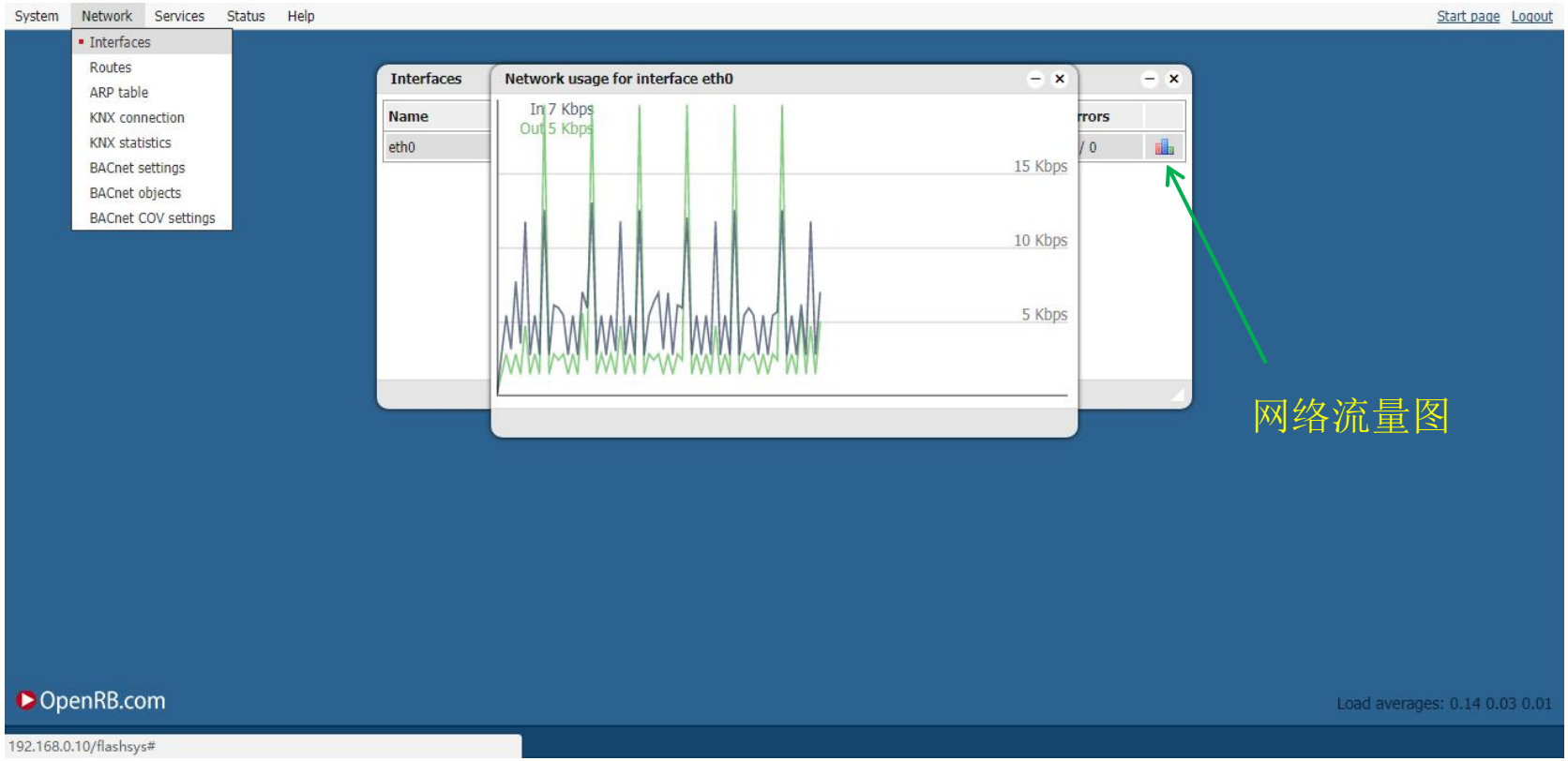
DNS：根据各区域、各项目所选择的网络运营商来进行选择，以保证LM与外网通讯的稳定

动态IP

MTU：最大传输单元；默认无设定，可不考虑

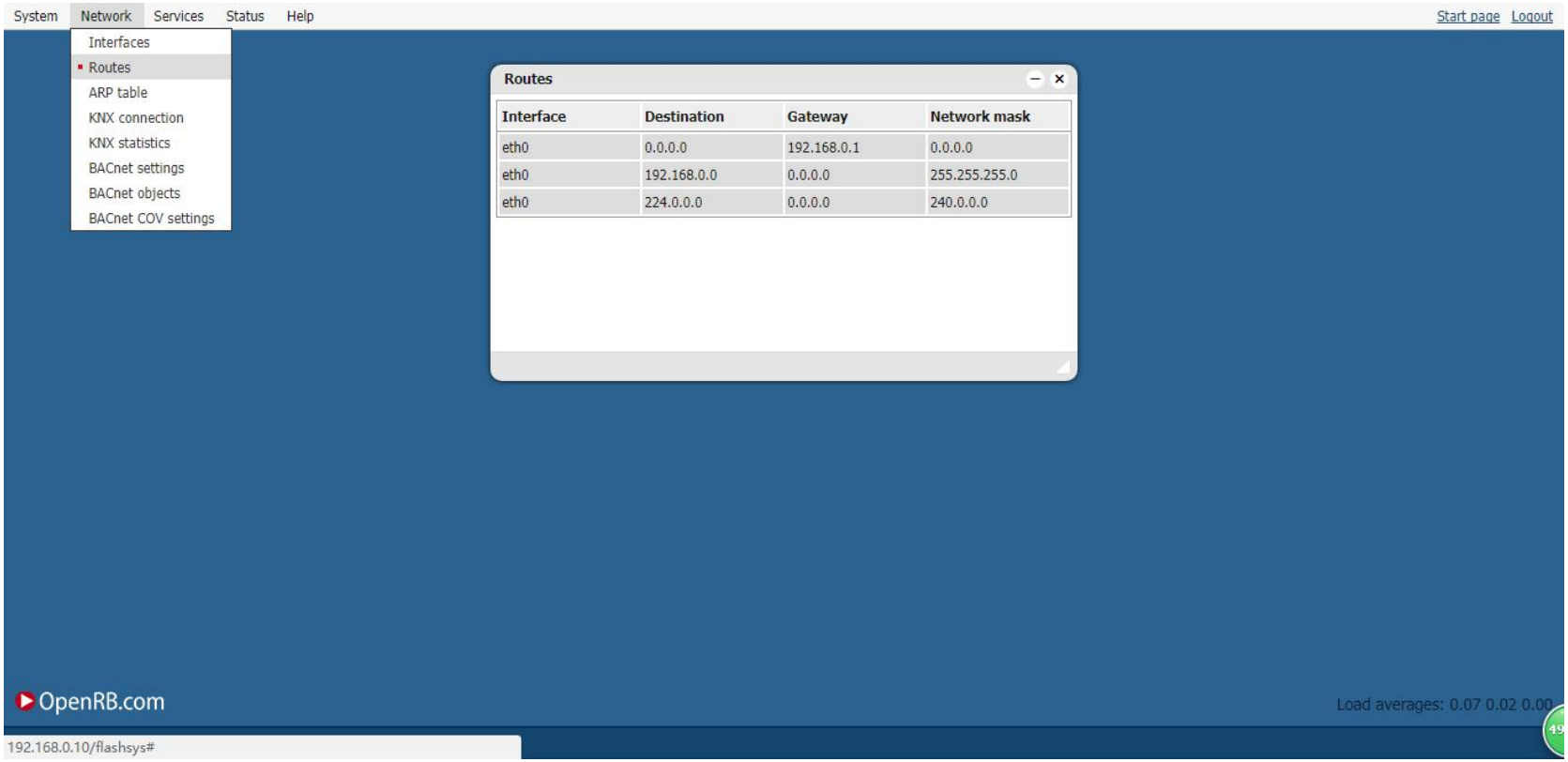
System config > Network > Interfaces

embedded automation



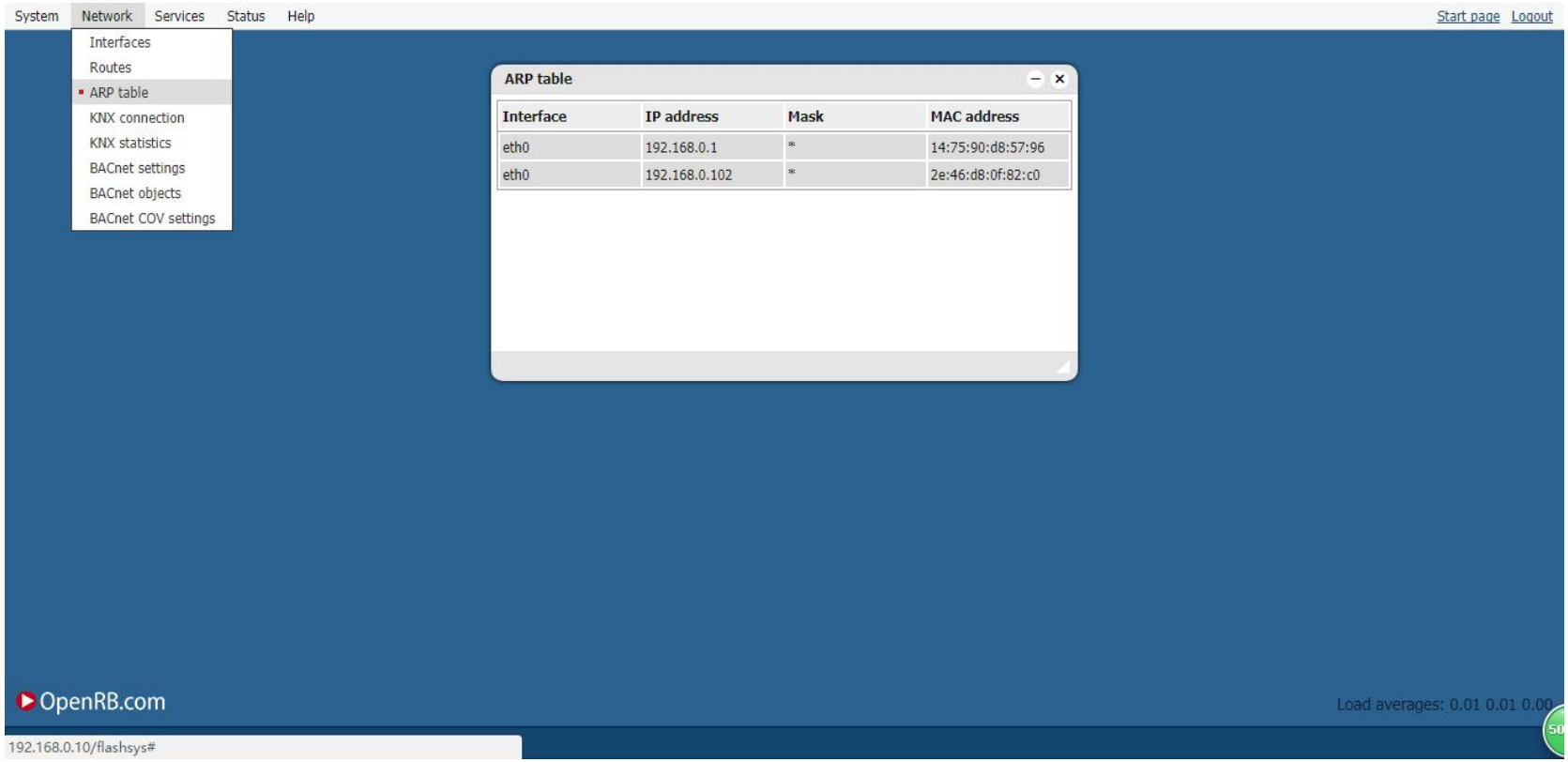
System config > Network > Routes

embedded automation



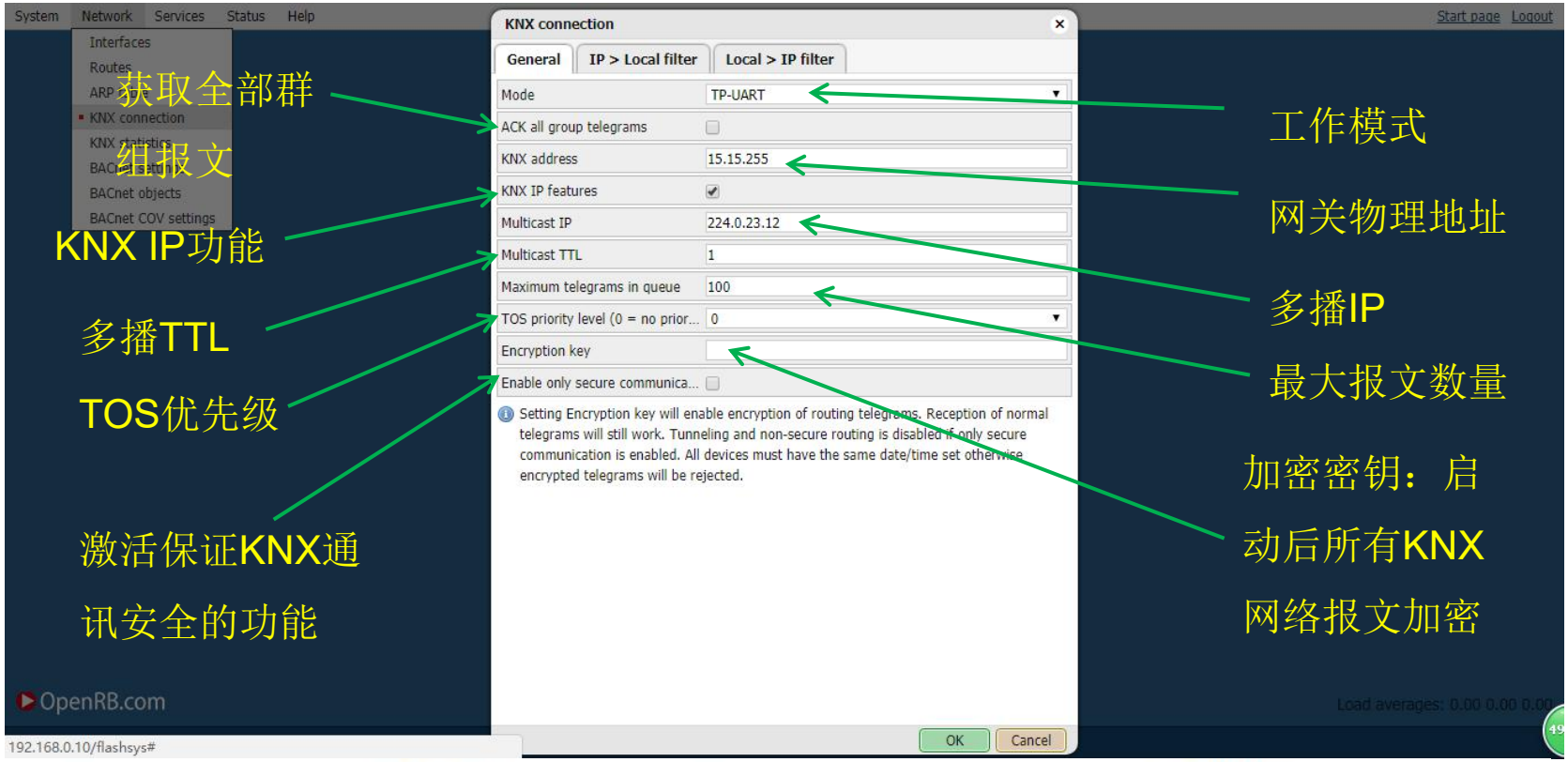
System config > Network > ARP table

embedded automation



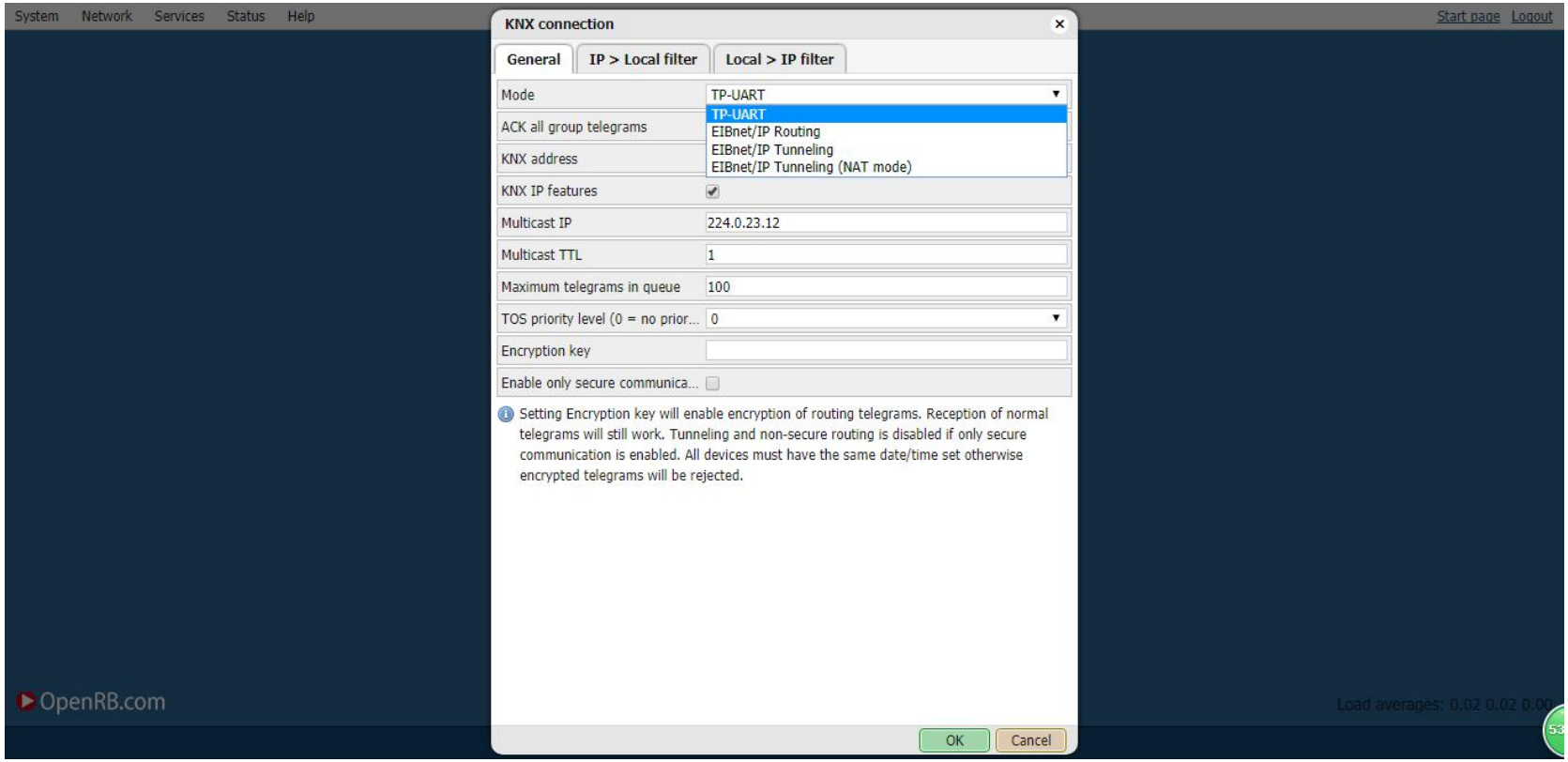
System config > Network > KNX connection

embedded automation

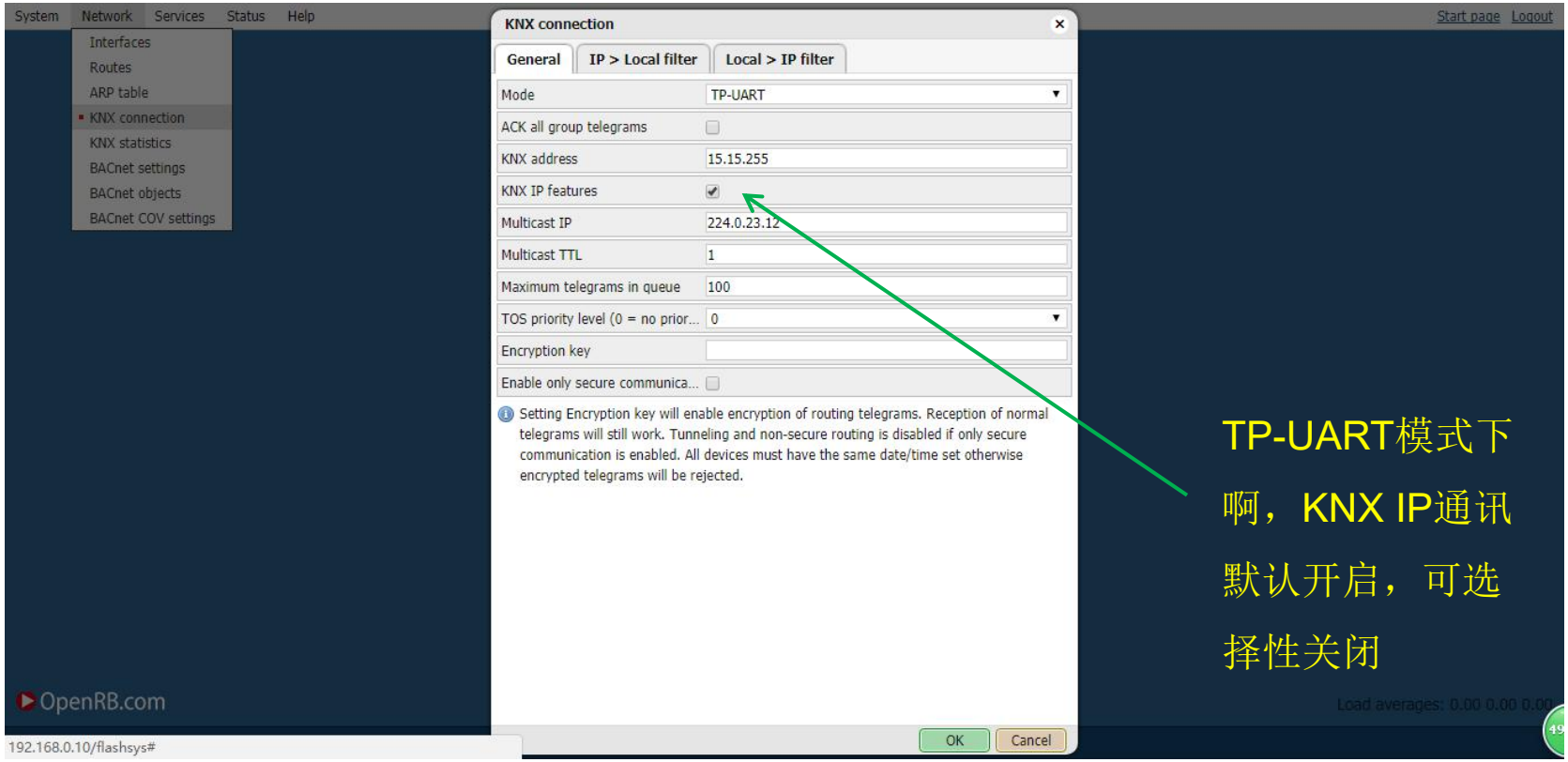


IP组播(IP multicasting)是对硬件组播的抽象，是对标准IP网络层协议的扩展。它通过使用特定的IP组播地址，按照最大投递的原则，将IP数据包传输到一个组播群组(multicast group)的主机集合。它的基本方法是:当某一个人向一组人发送数据时，它不必将数据向每一个人都发送数据，只需将数据发送到一个特定的预约的组地址，所有加入该组的人均可以收到这份数据。这样对发送者而言，数据只需发送一次就可以发送到所有接收者，大大减轻了网络的负载和发送者的负担。

System config > Network > KNX connection

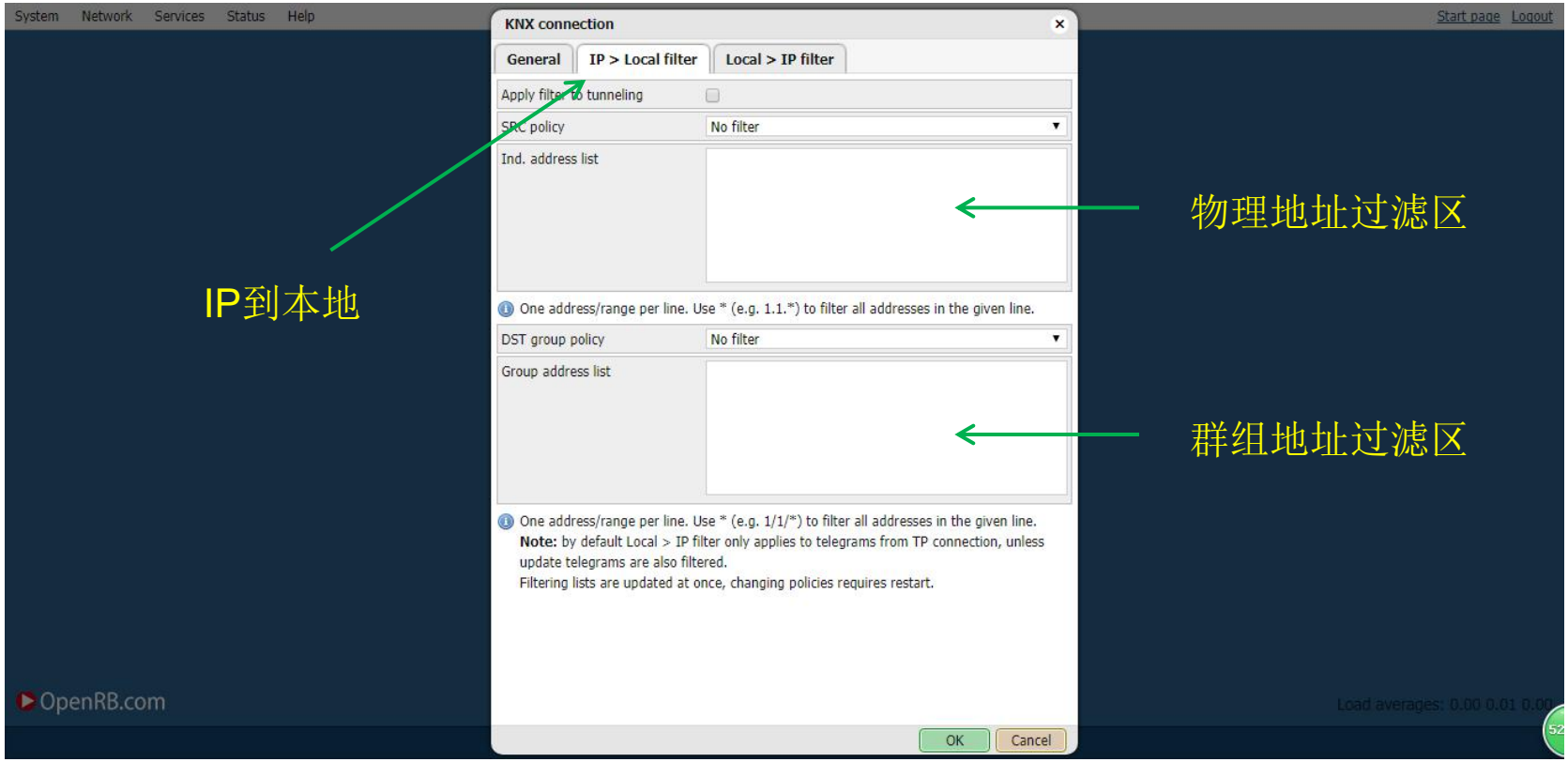


System config > Network > KNX connection

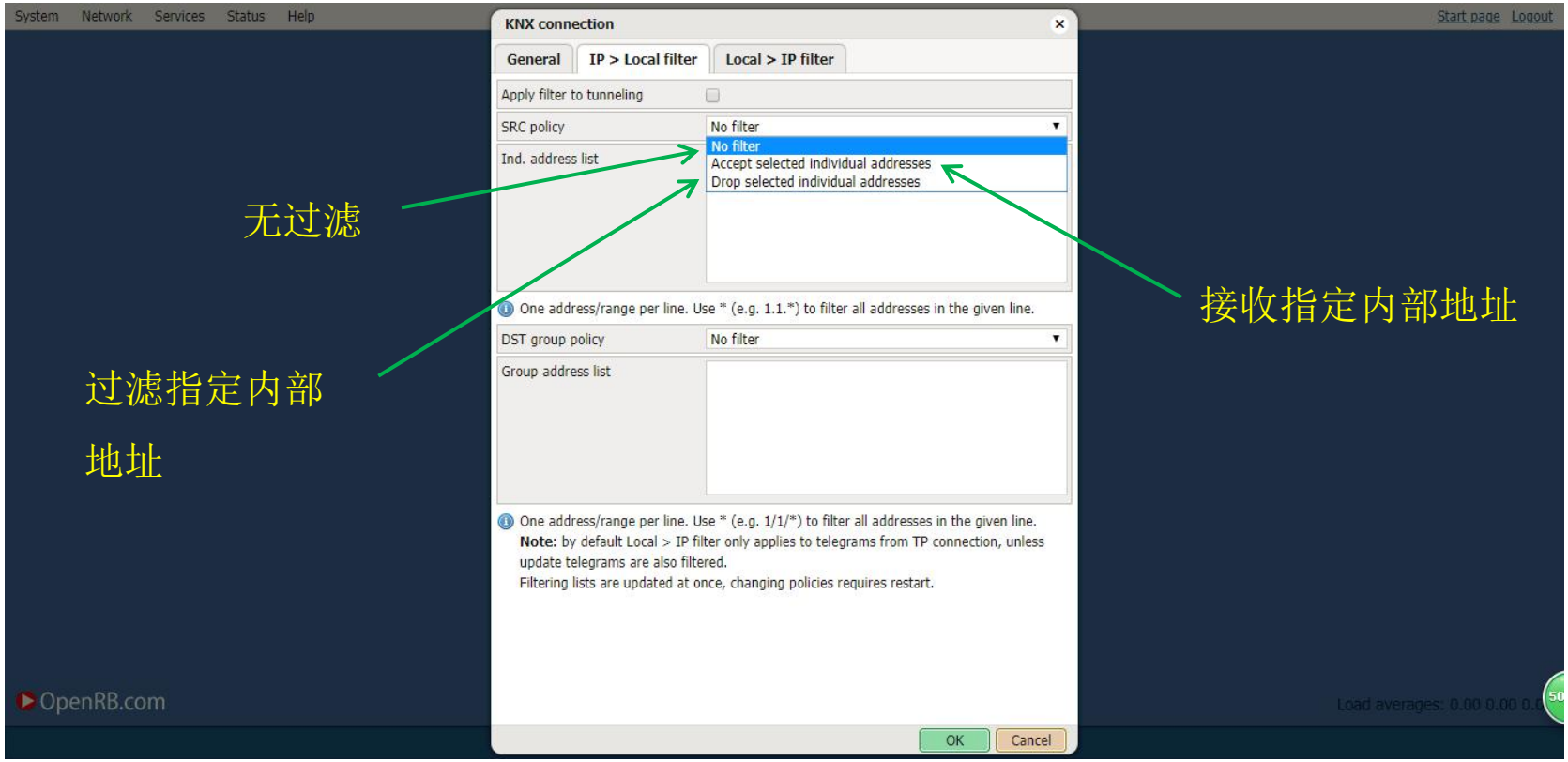


TP-UART模式下啊，KNX IP通讯默认开启，可选择性关闭

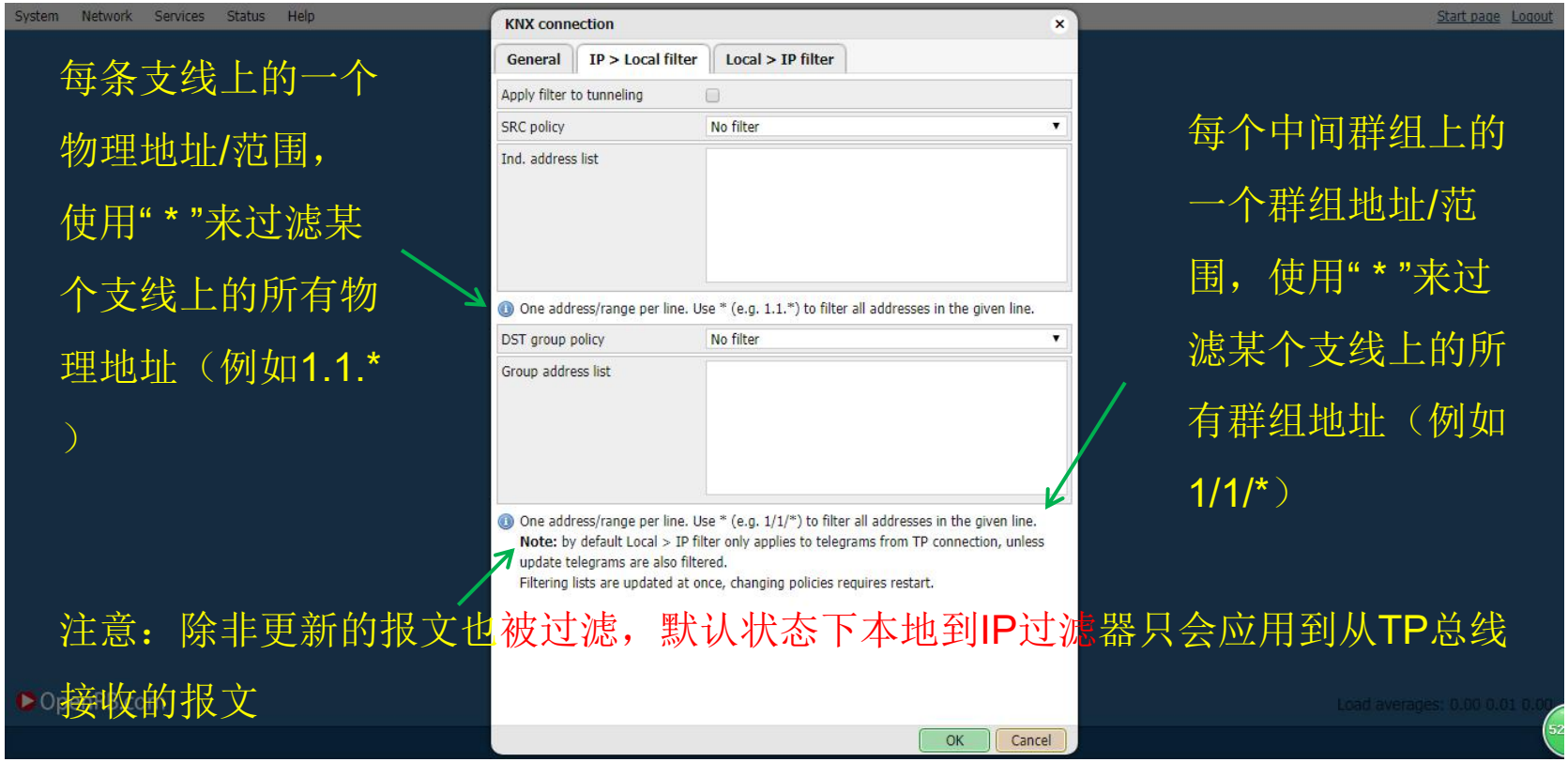
System config > Network > KNX connection



System config > Network > KNX connection

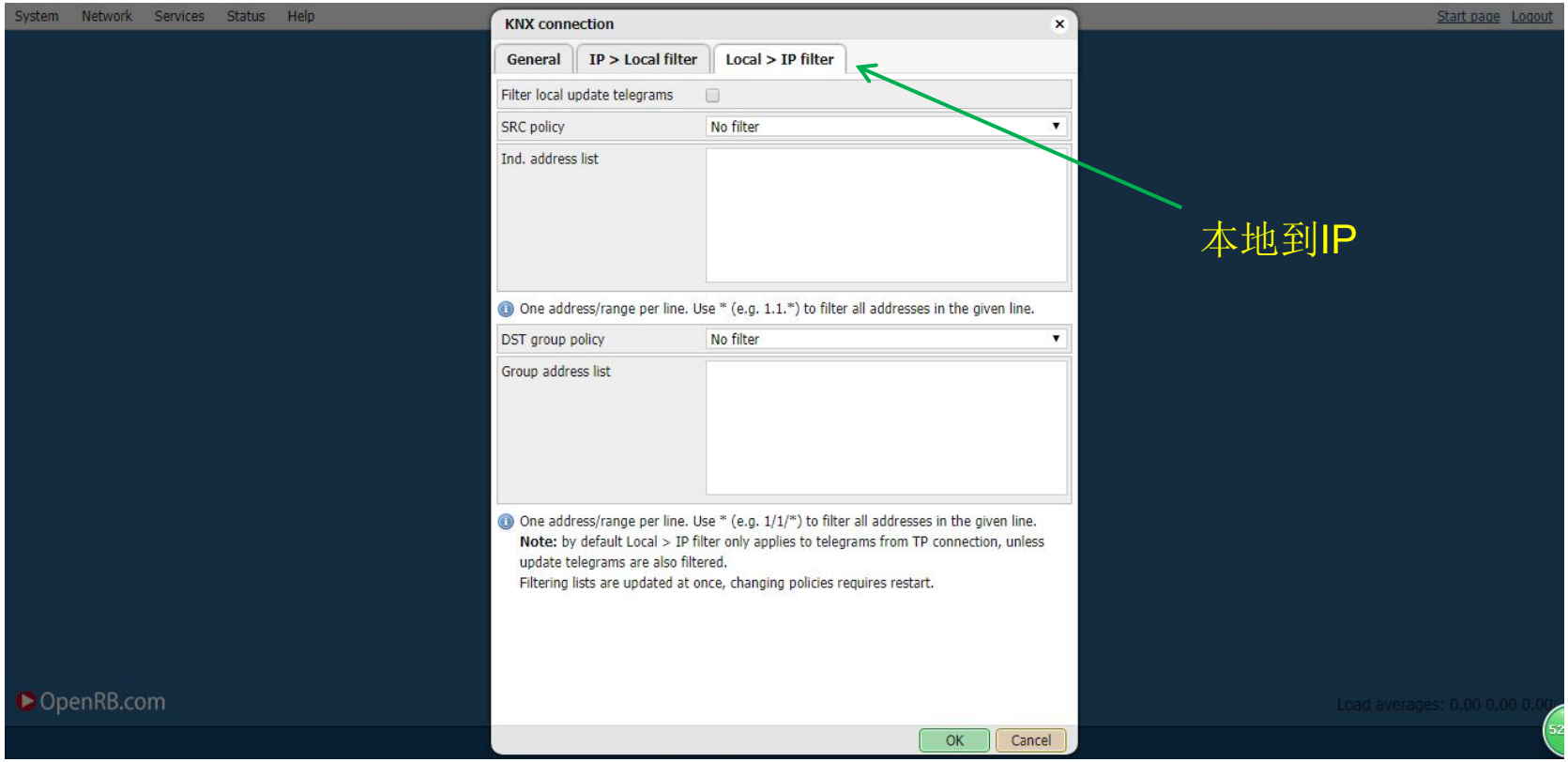


System config > Network > KNX connection



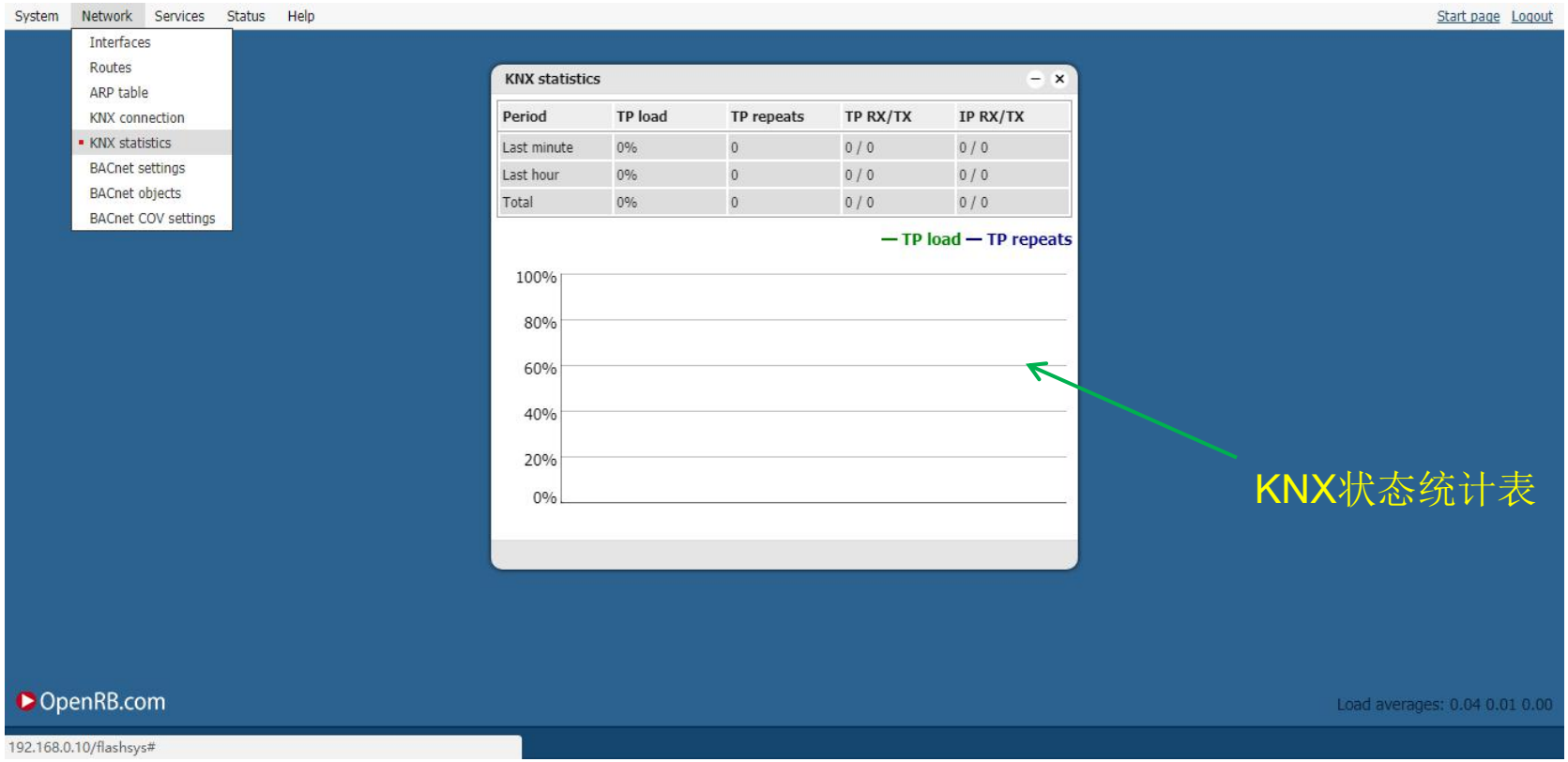
System config > Network > KNX connection

embedded automation



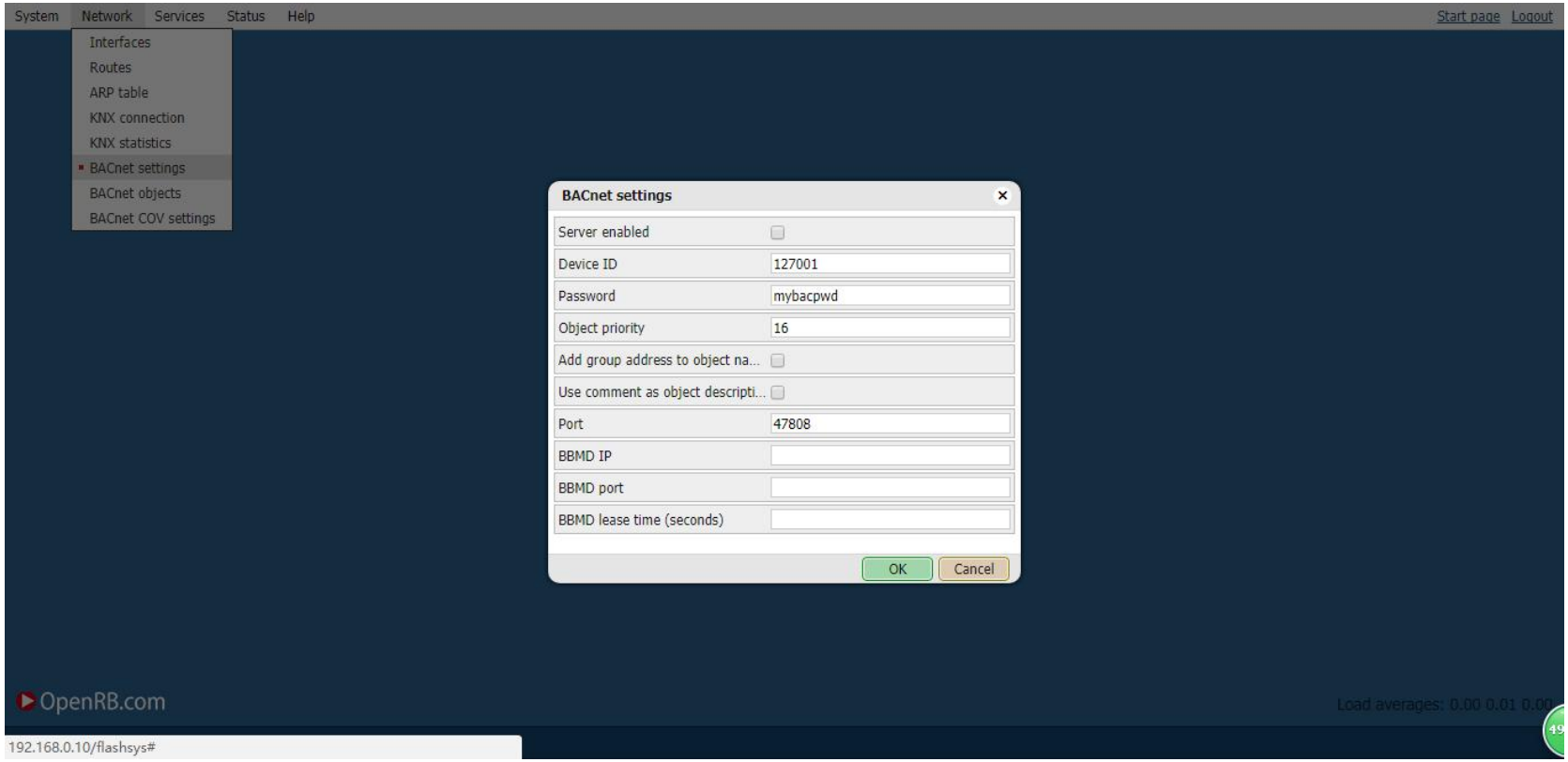
System config > Network > KNX statistics

embedded automation



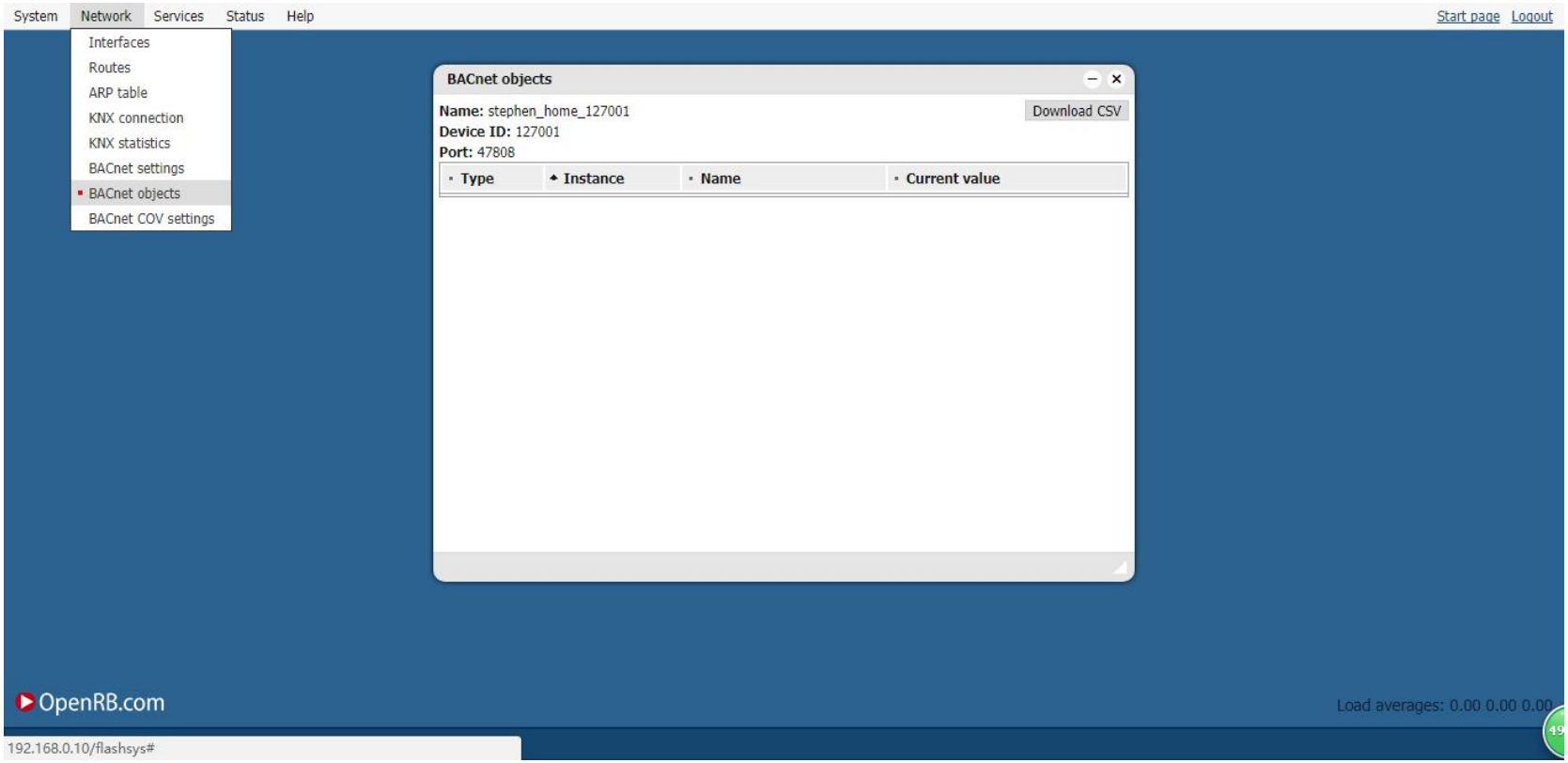
System config > Network > BACnet settings

embedded automation

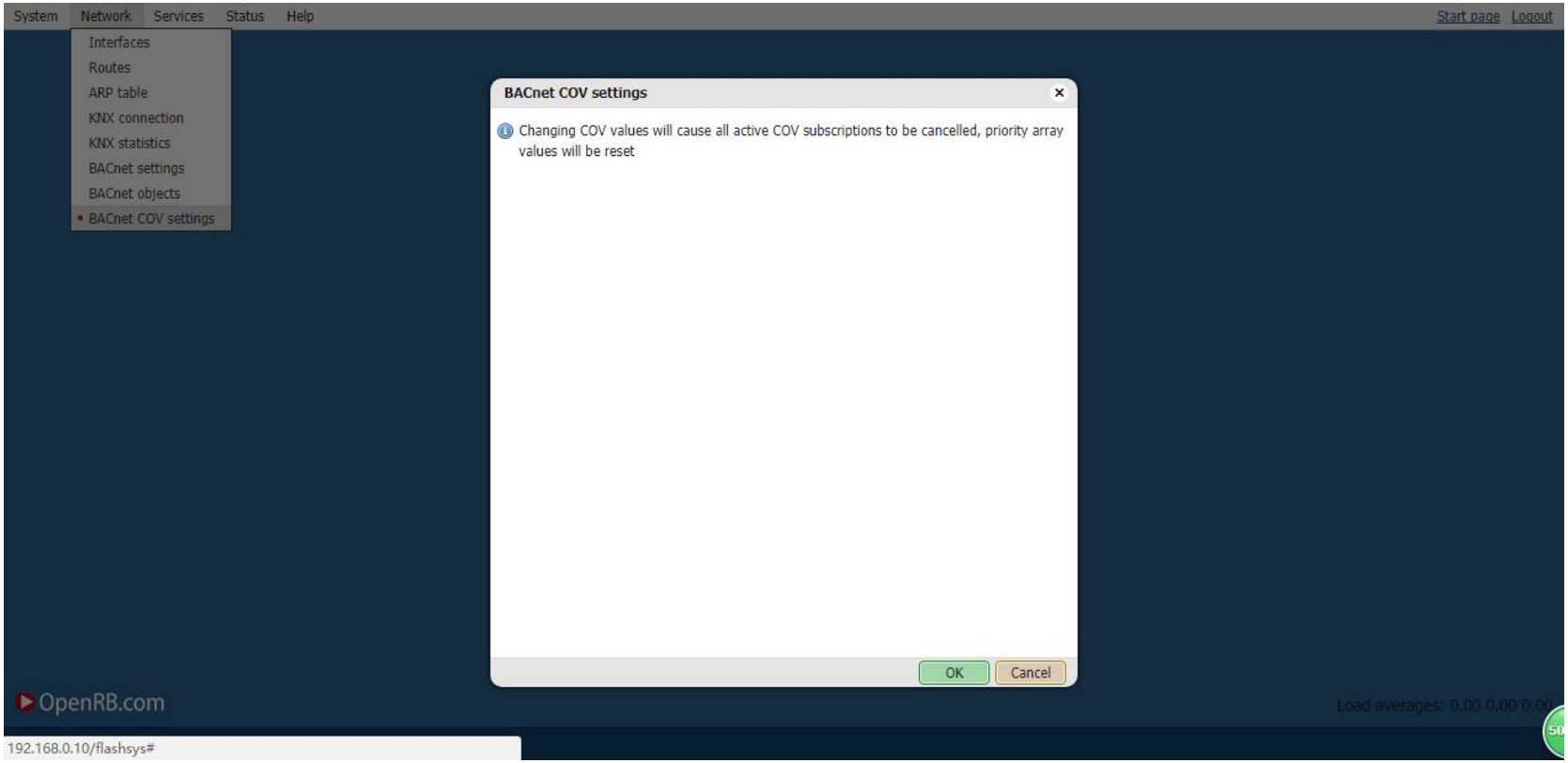


System config > Network > BACnet objects

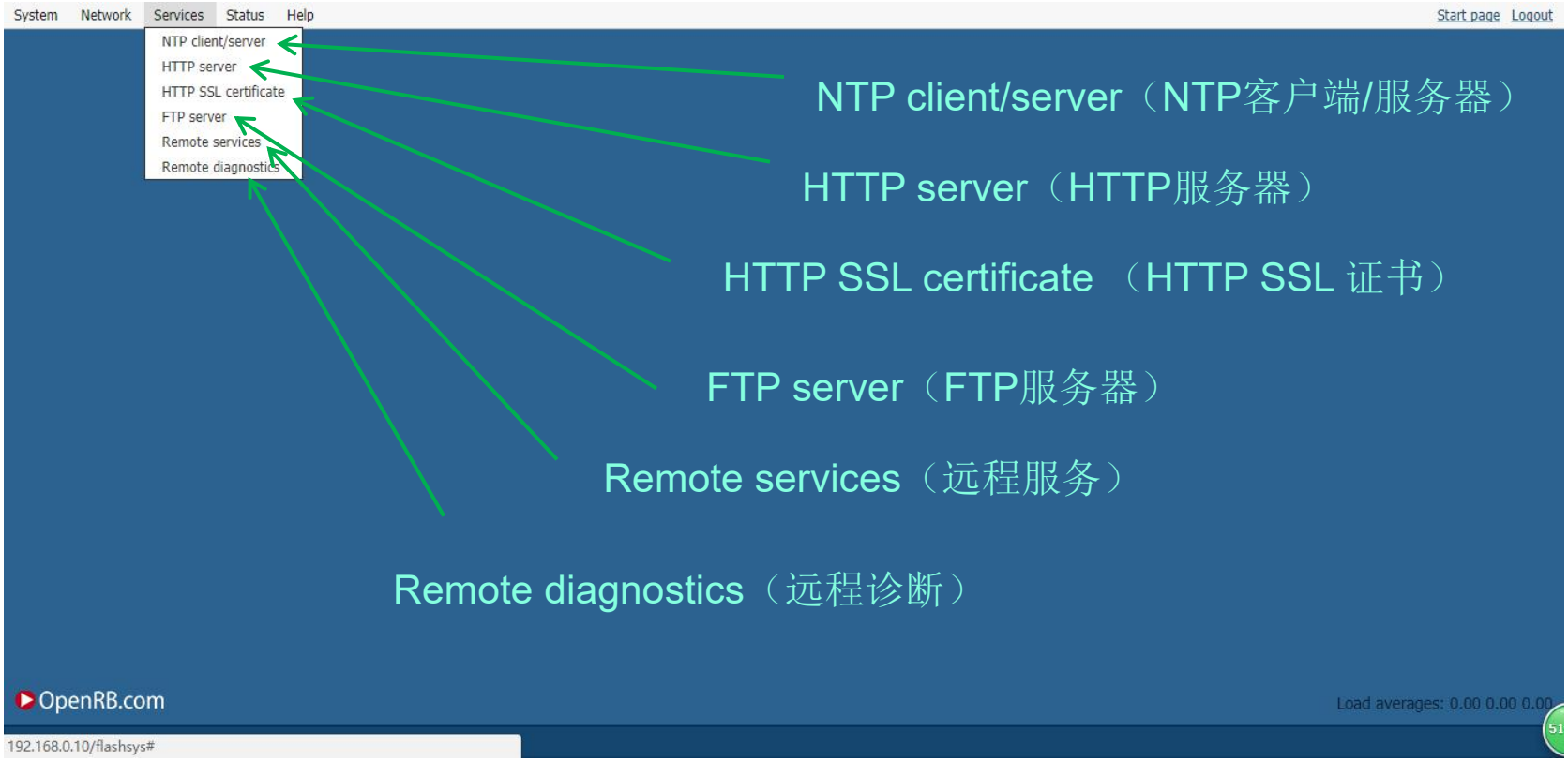
embedded automation



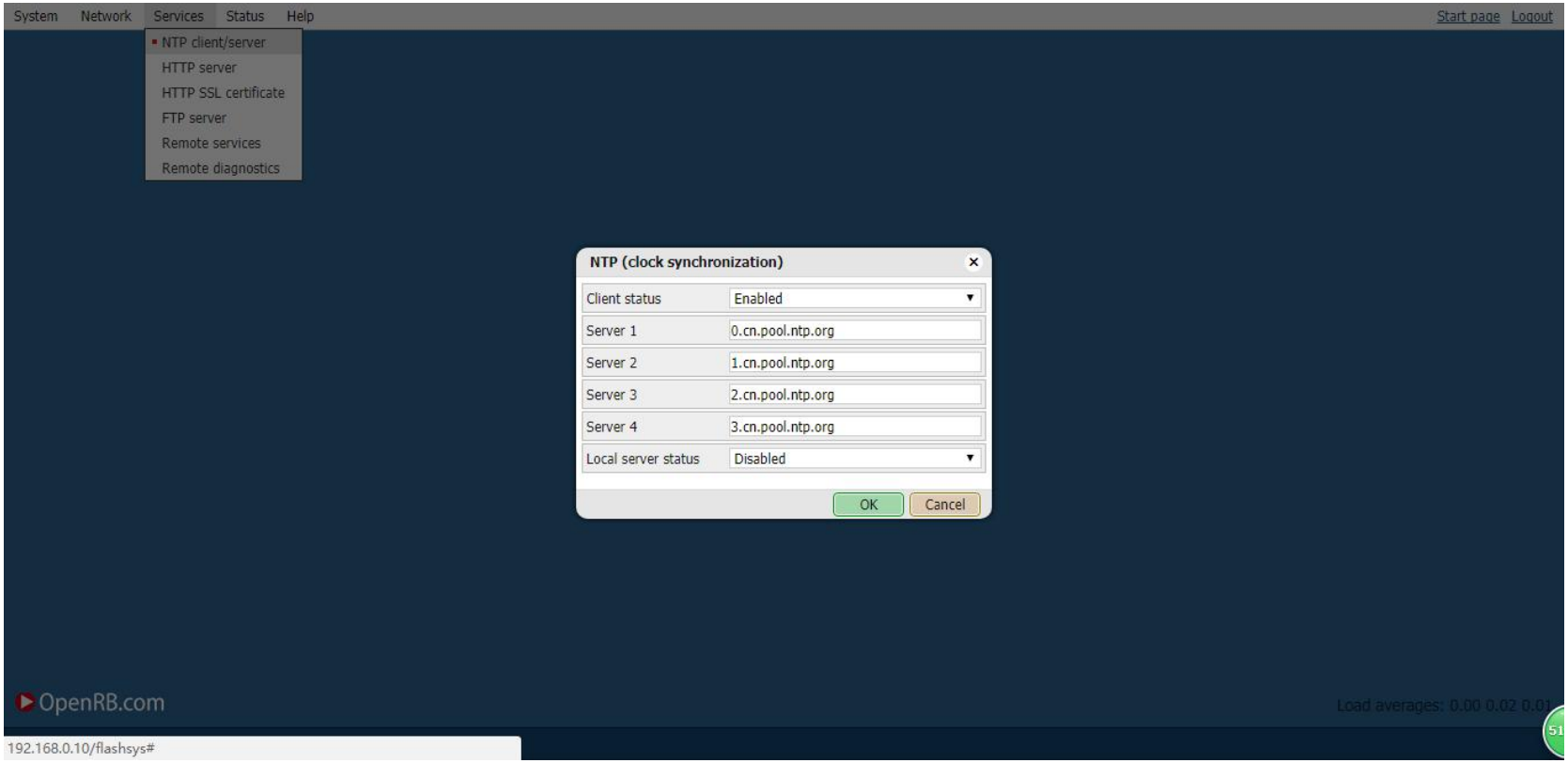
System config > Network > BACnet COV settings



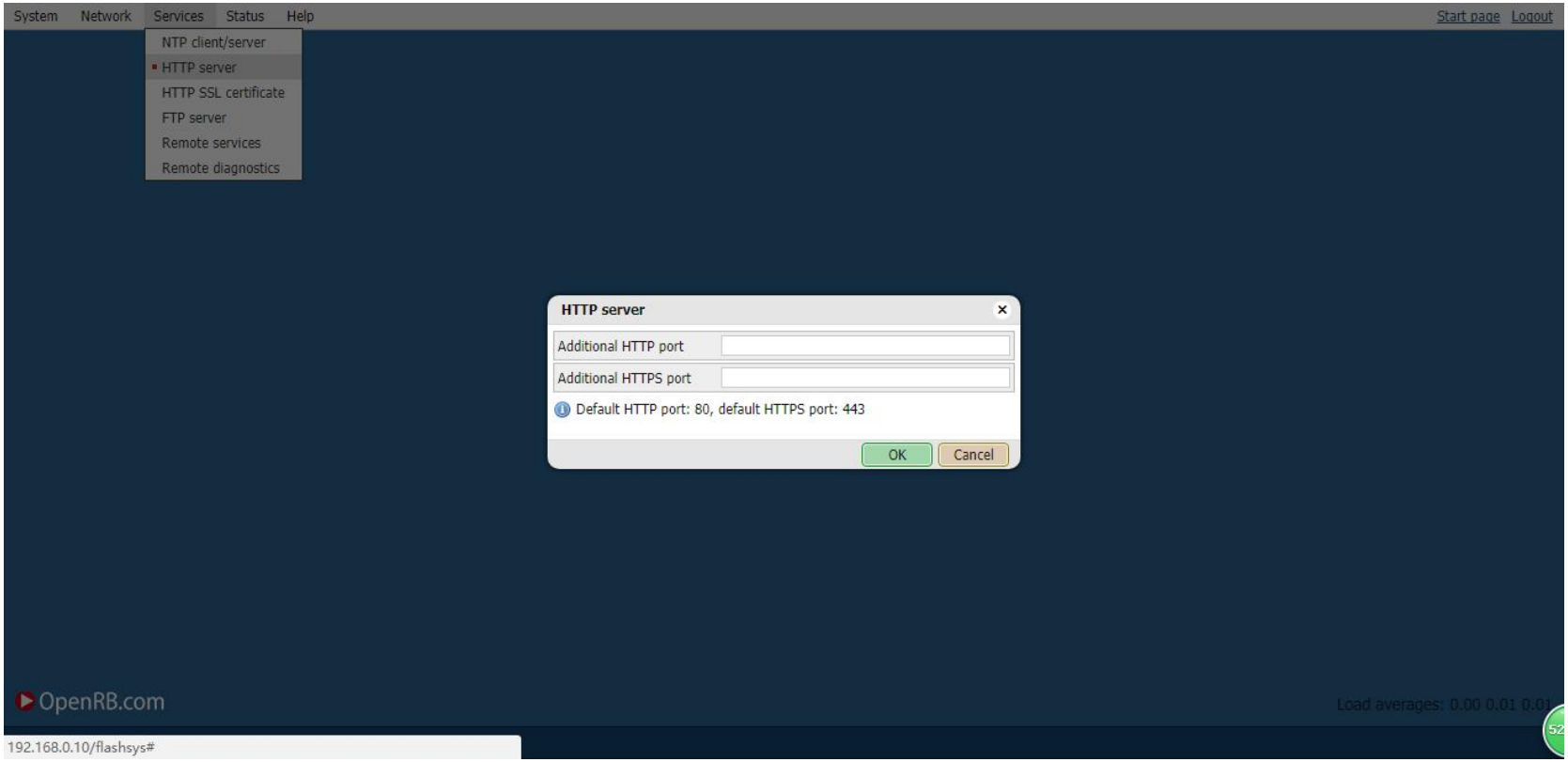
System config > Services



System config > Services > NTP client/server

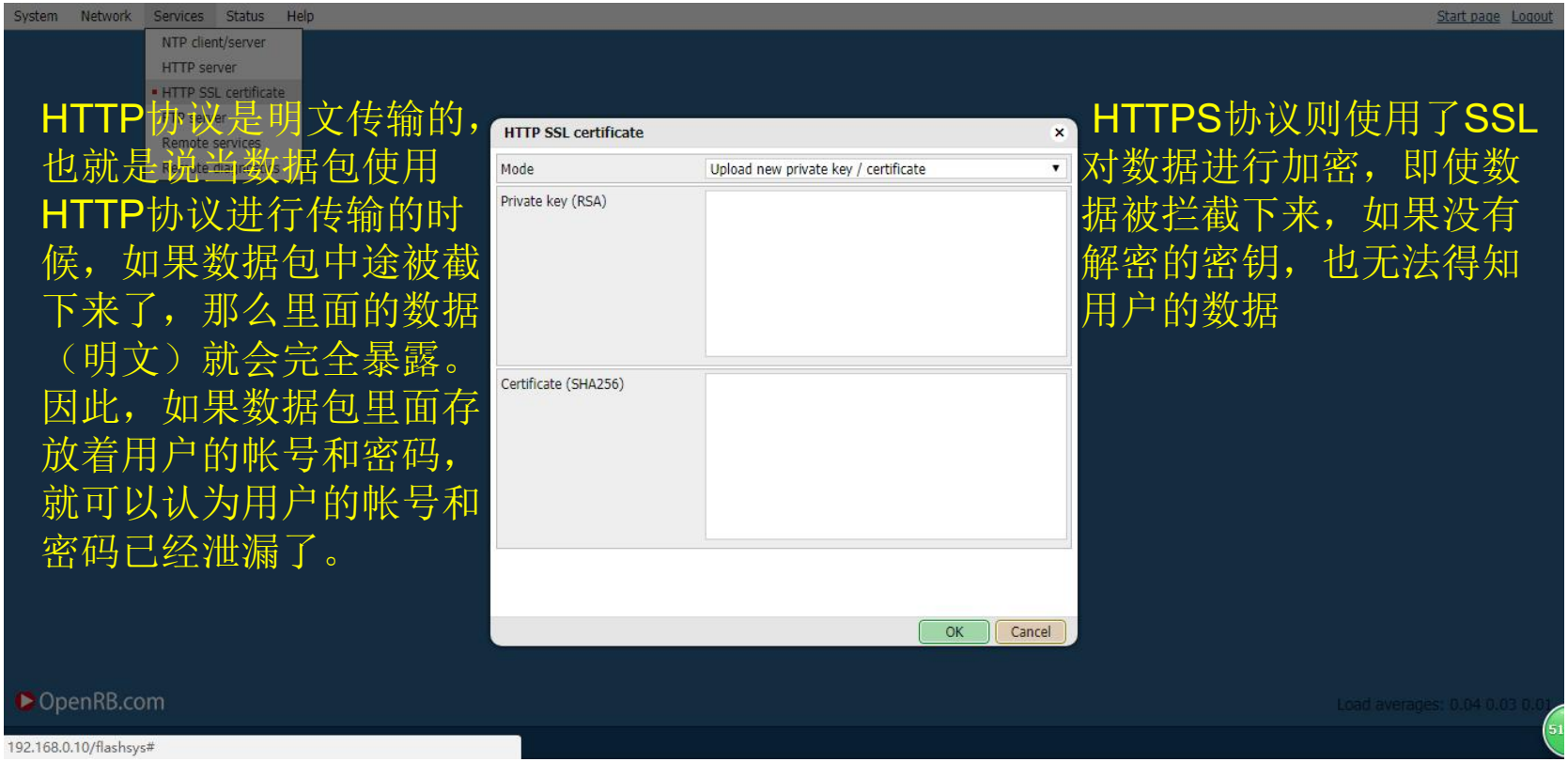


System config > Services > HTTP server



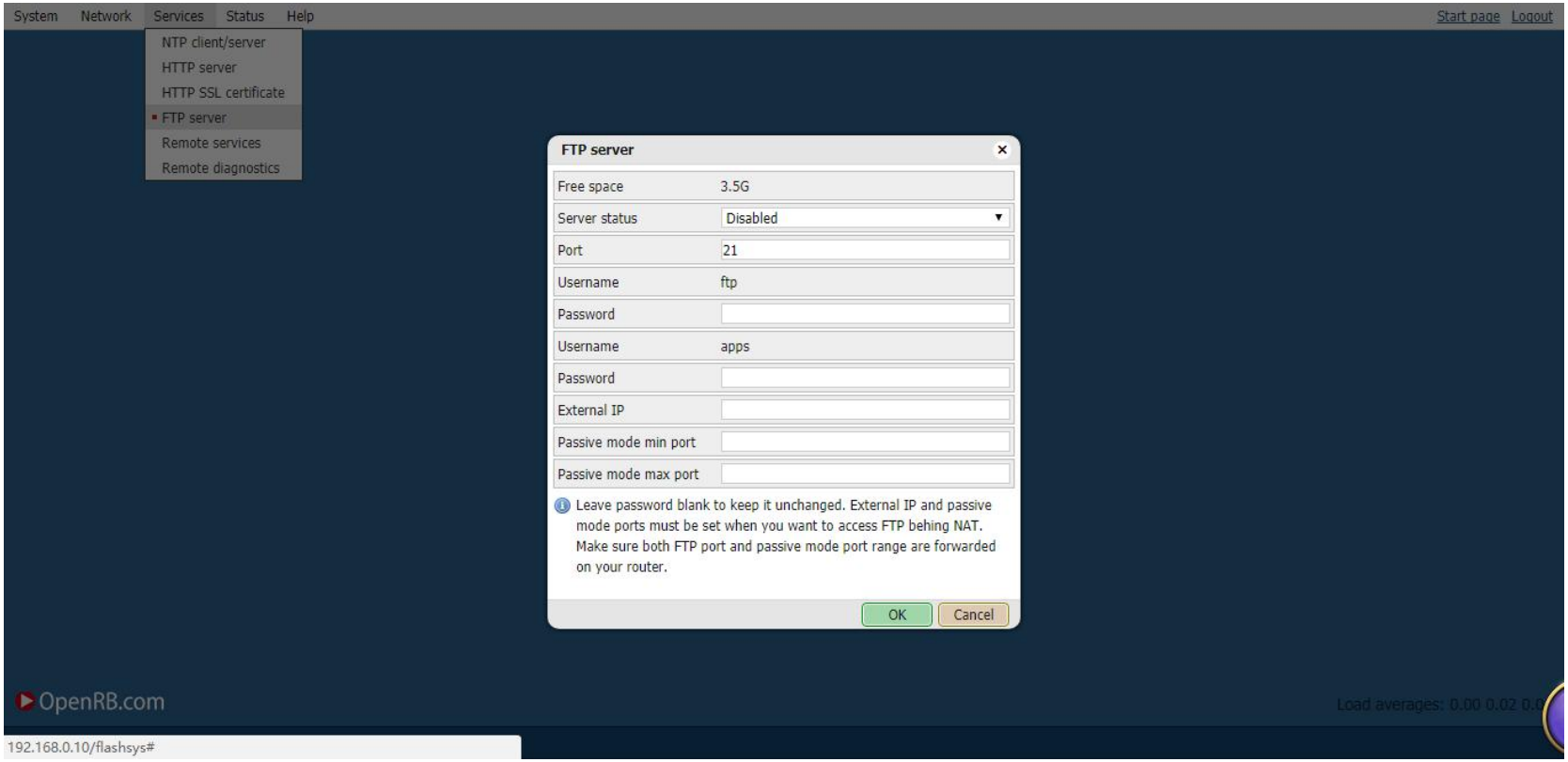
System config > Services > HTTP SSL certificate

HTTP协议是明文传输的，也就是说当数据包使用HTTP协议进行传输的时候，如果数据包中途被截下来了，那么里面的数据（明文）就会完全暴露。因此，如果数据包里面存放着用户的帐号和密码，就可以认为用户的帐号和密码已经泄漏了。

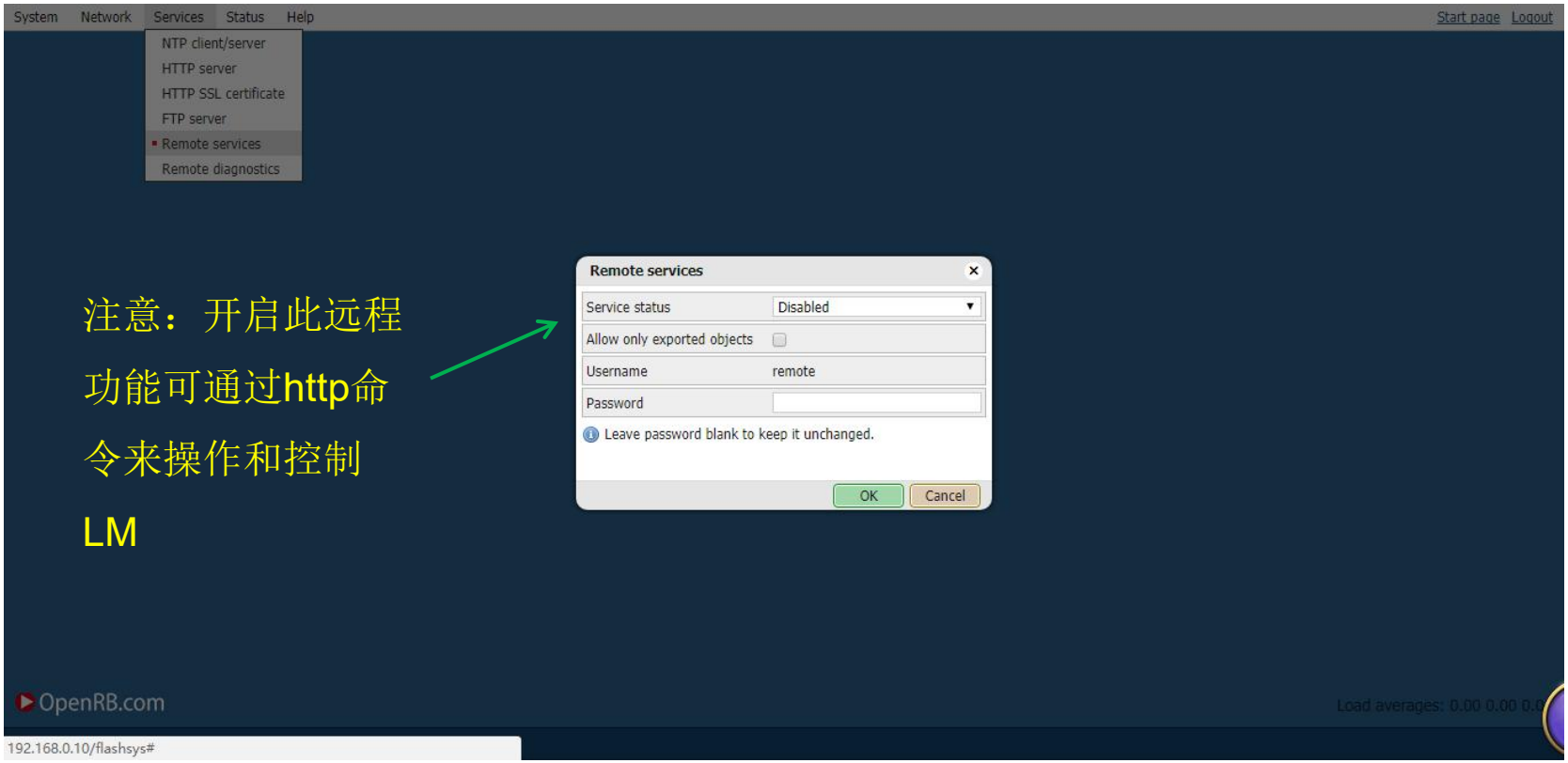


HTTPS协议则使用了SSL对数据进行加密，即使数据被拦截下来，如果没有解密的密钥，也无法得知用户的数据

System config > Services > FTP server

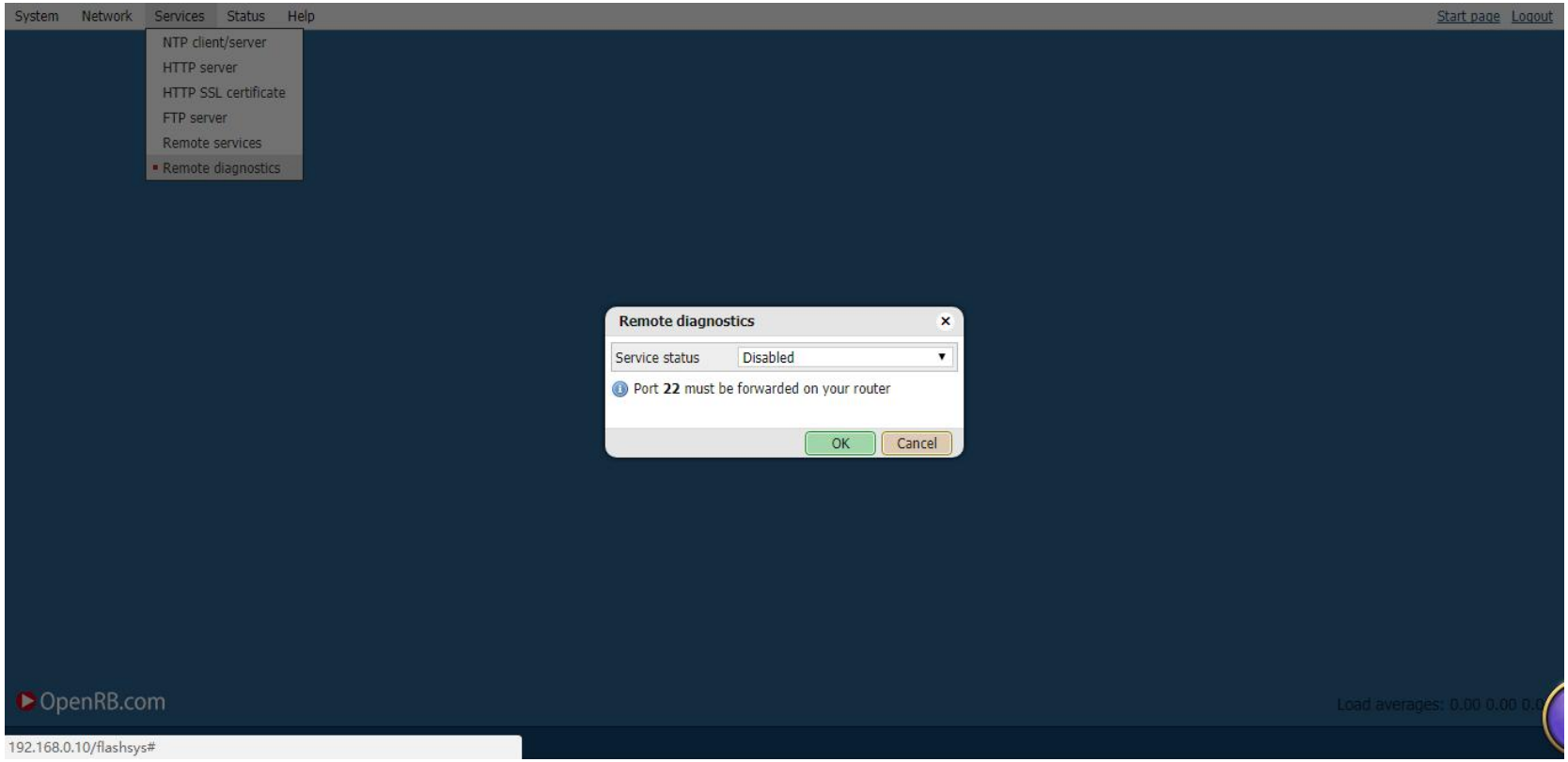


System config > Services > Remote services

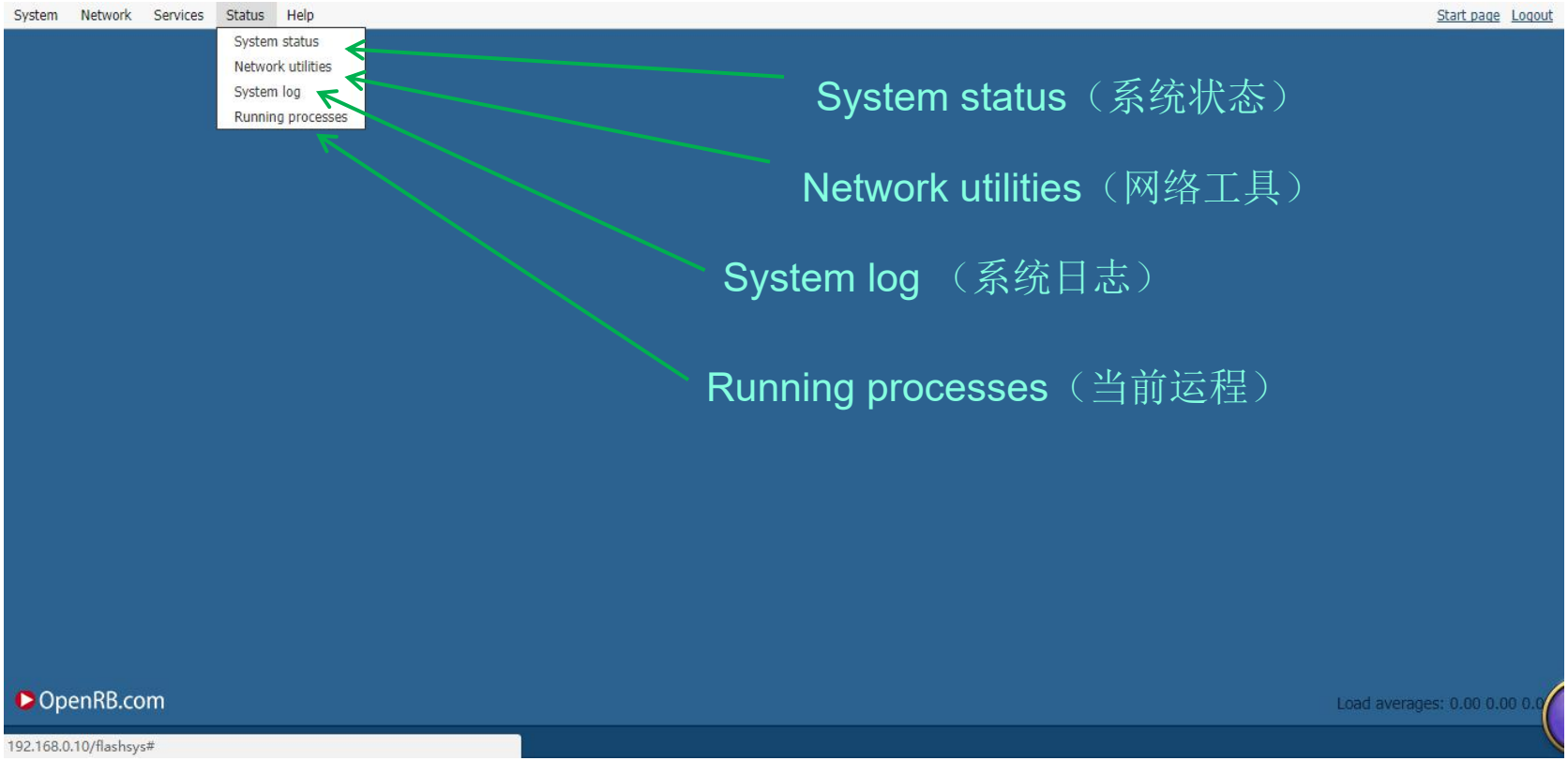


System config > Services > Remote diagnostics

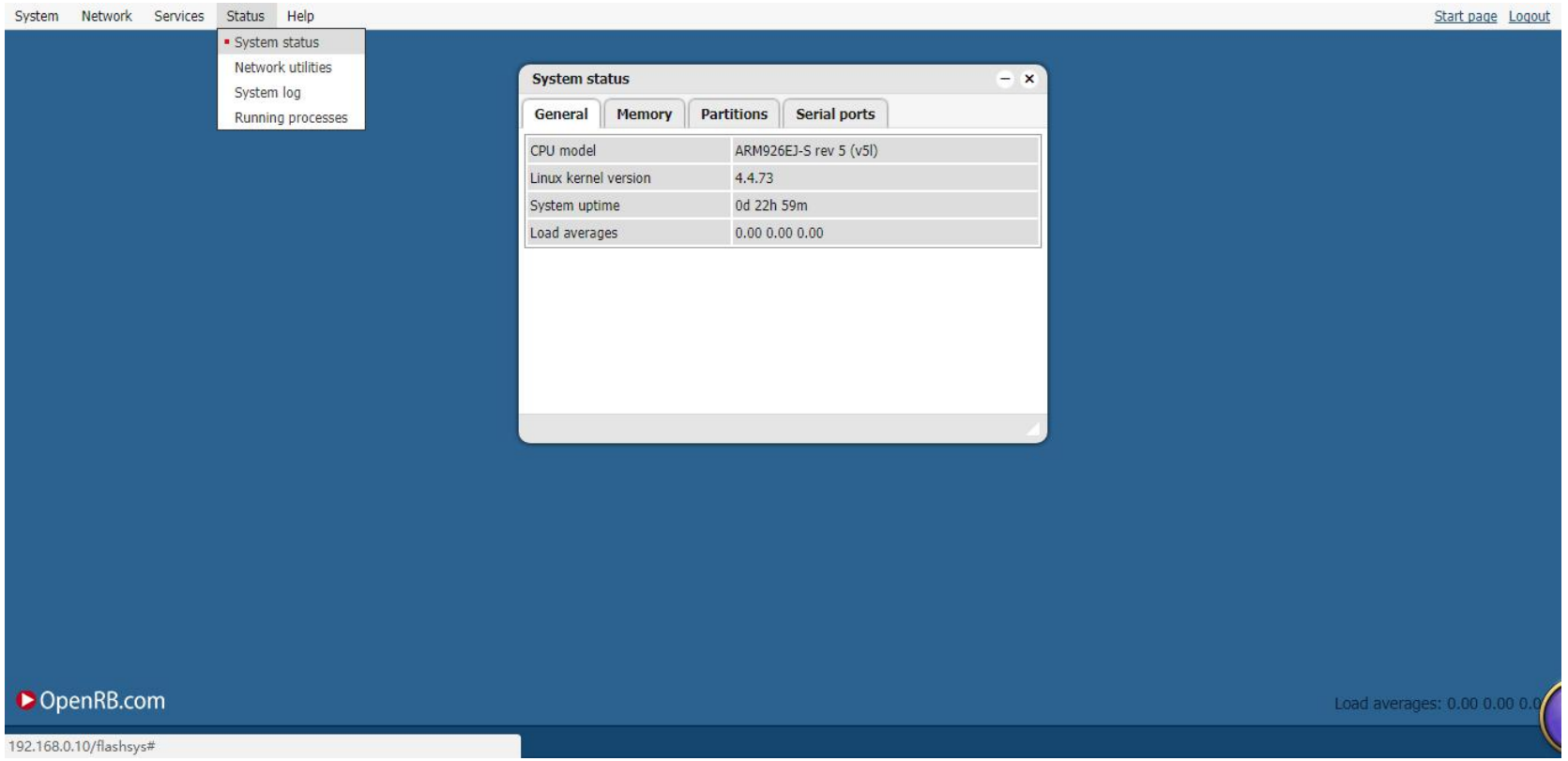
embedded automation



System config > Status

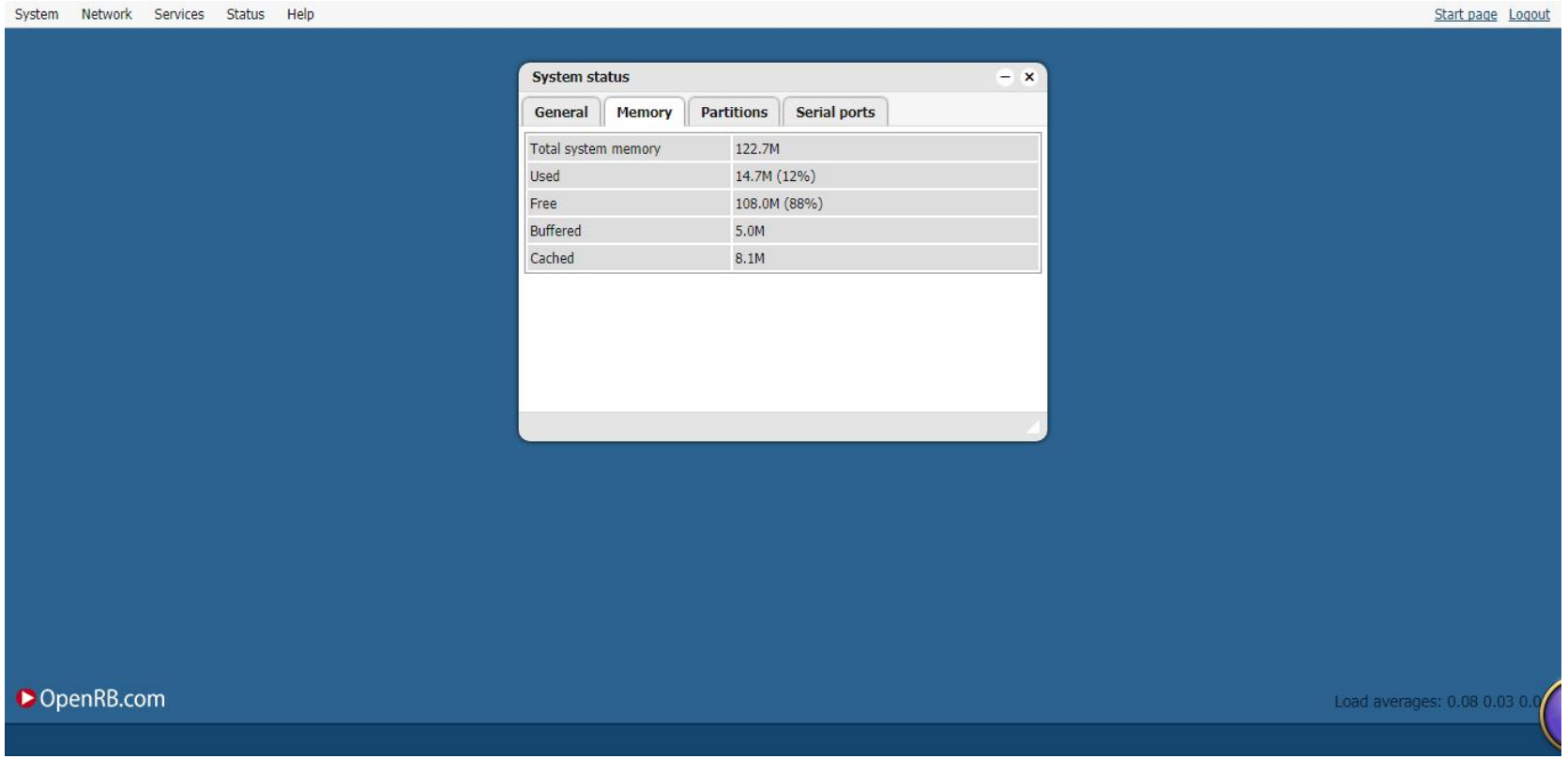


System config > Status > System status



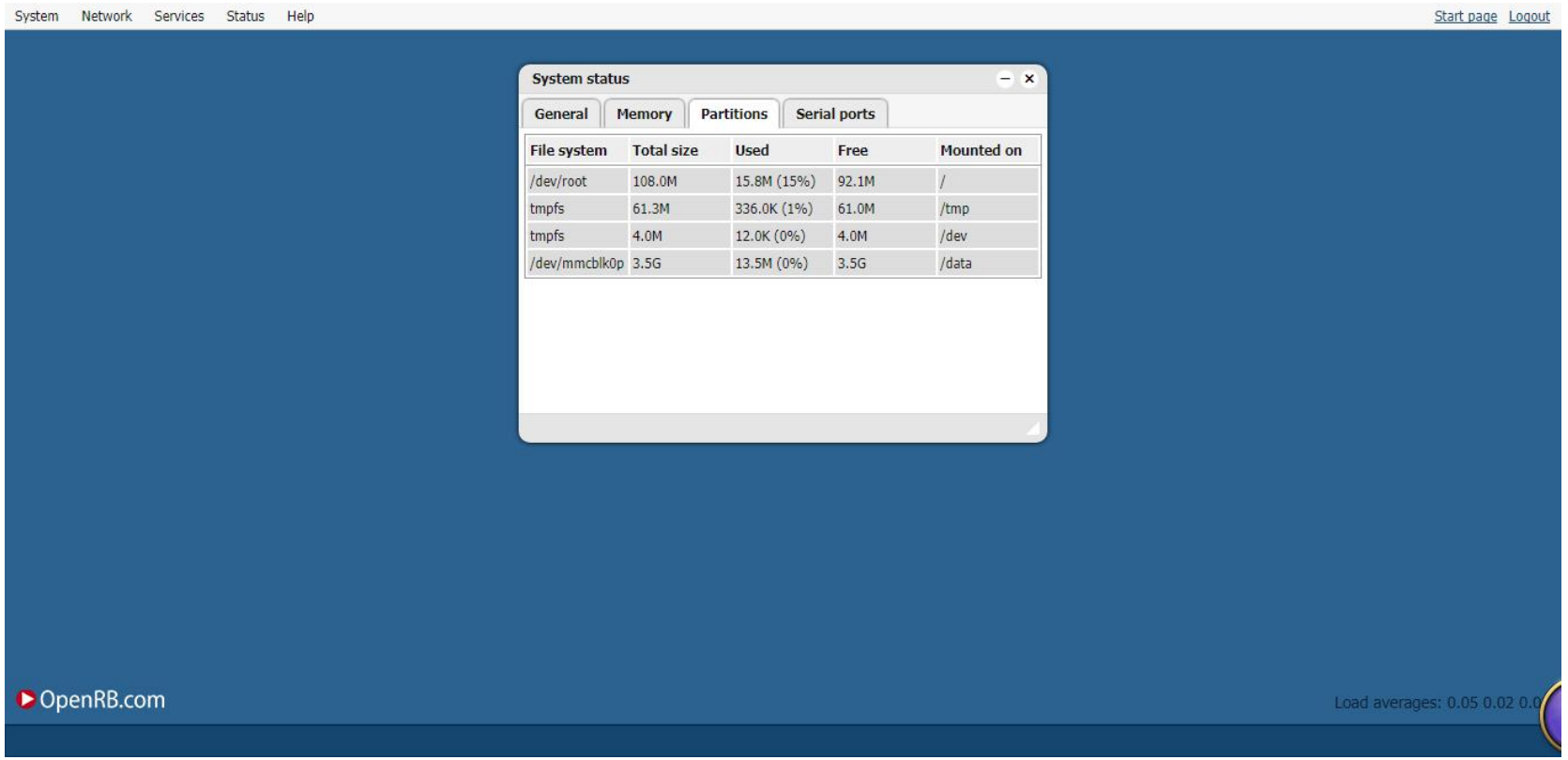
System config > Status > System status

embedded automation

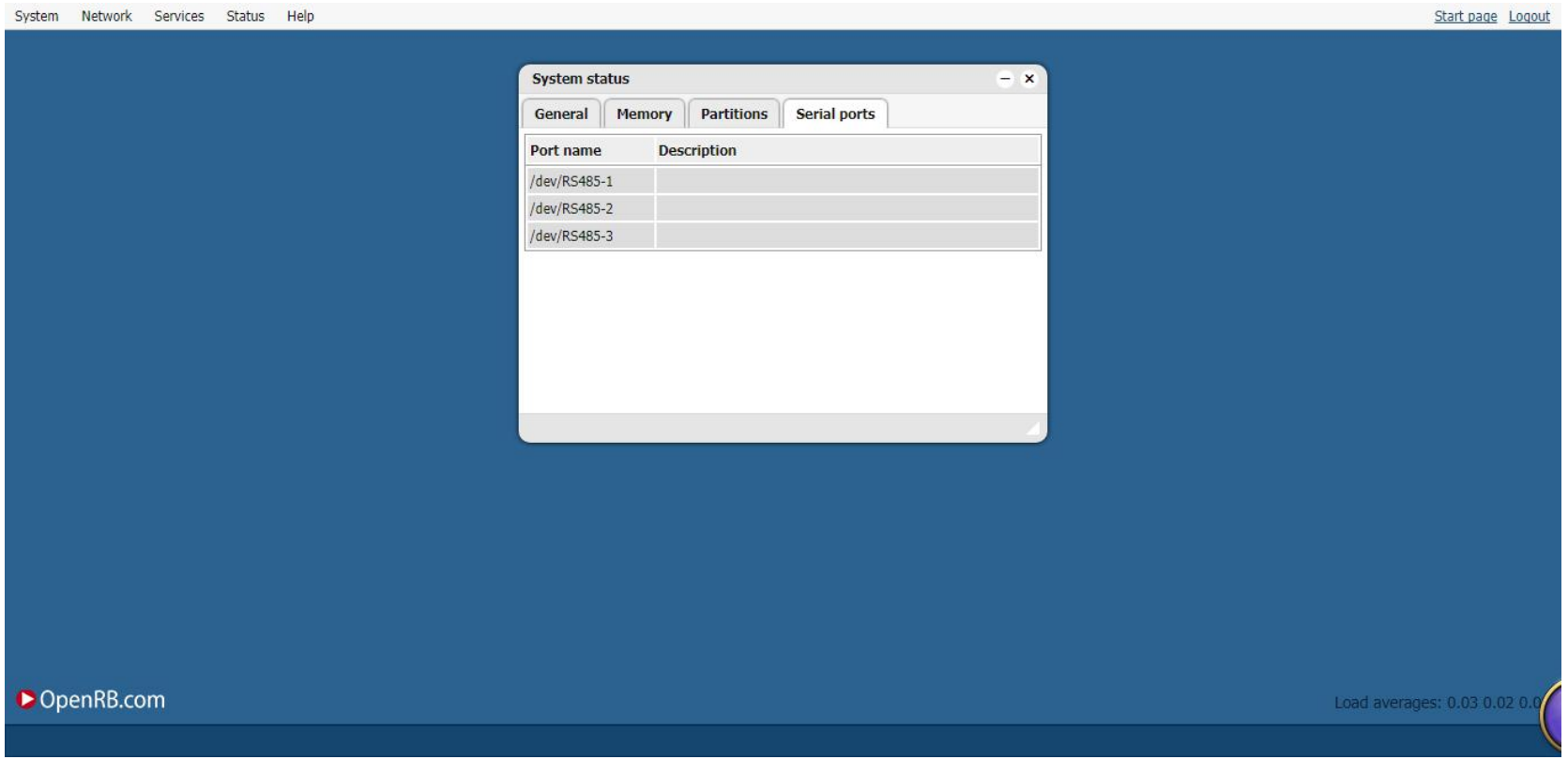


System config > Status > System status

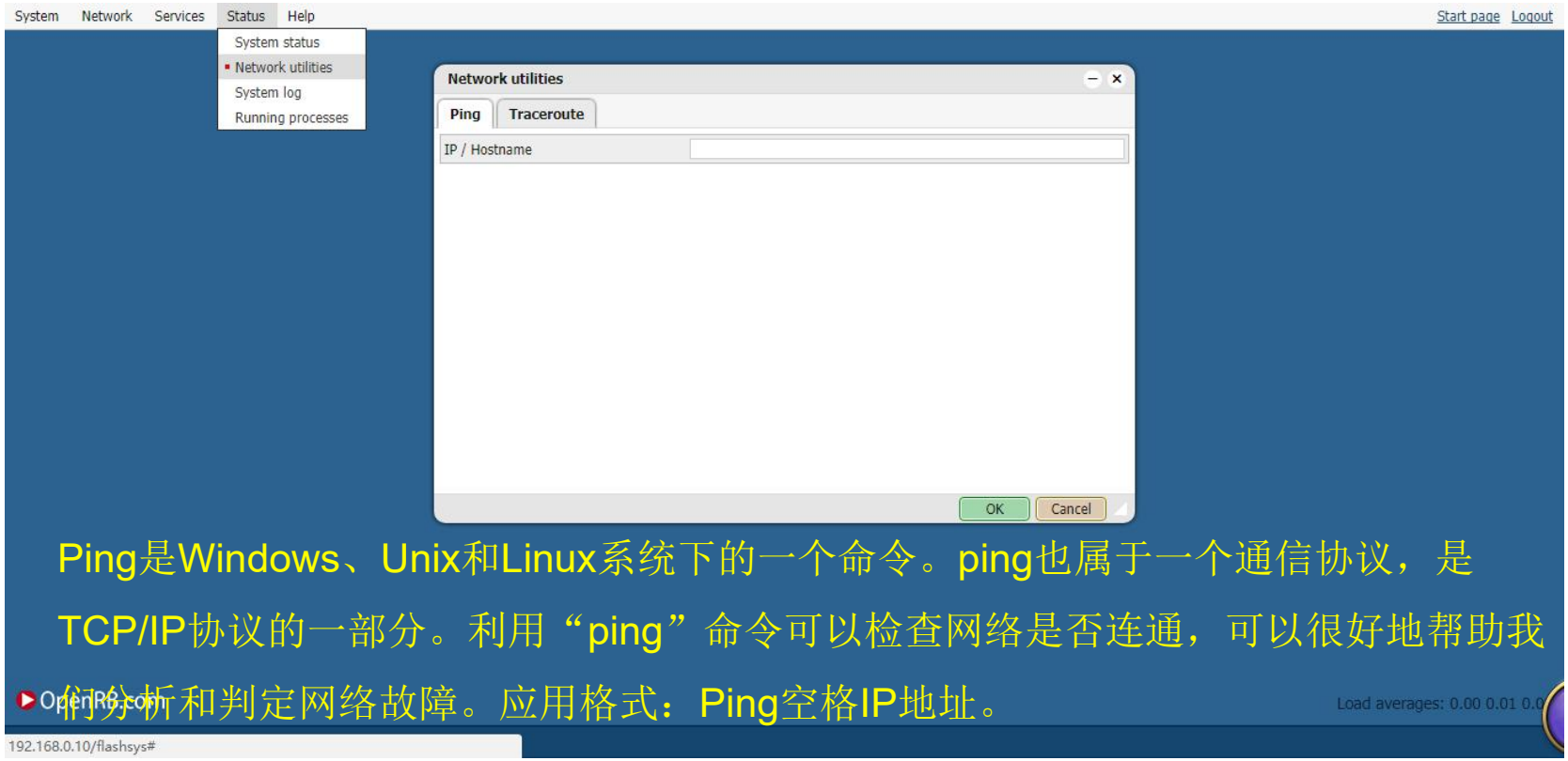
embedded automation



System config > Status > System status

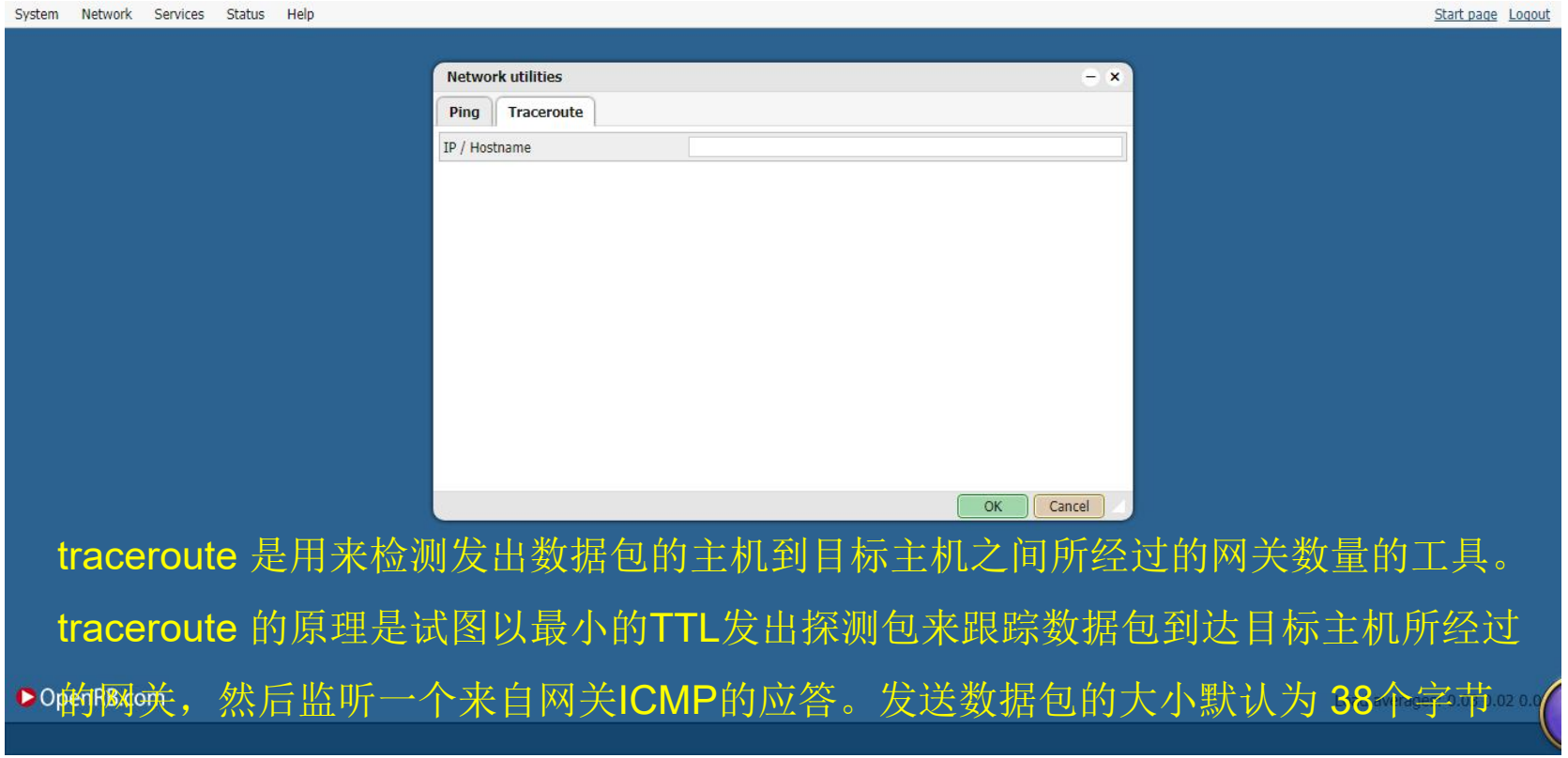


System config > Status > Network utilities



Ping是Windows、Unix和Linux系统下的一个命令。ping也属于一个通信协议，是TCP/IP协议的一部分。利用“ping”命令可以检查网络是否连通，可以很好地帮助我们分析和判定网络故障。应用格式：Ping空格IP地址。

System config > Status > Network utilities

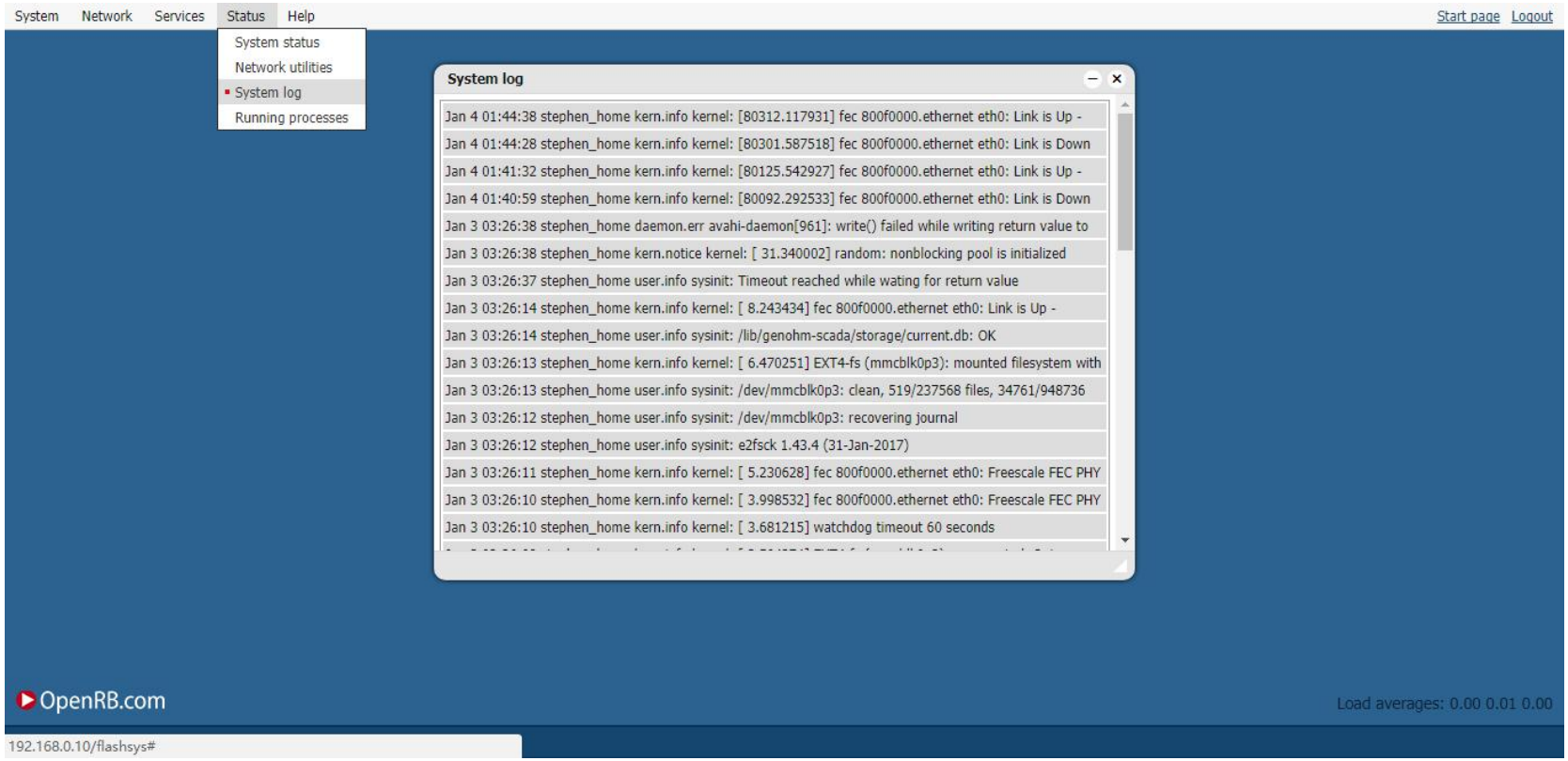


traceroute 是用来检测发出数据包的主机到目标主机之间所经过的网关数量的工具。

traceroute 的原理是试图以最小的TTL发出探测包来跟踪数据包到达目标主机所经过的网关，然后监听一个来自网关ICMP的应答。发送数据包的大小默认为 38个字节。

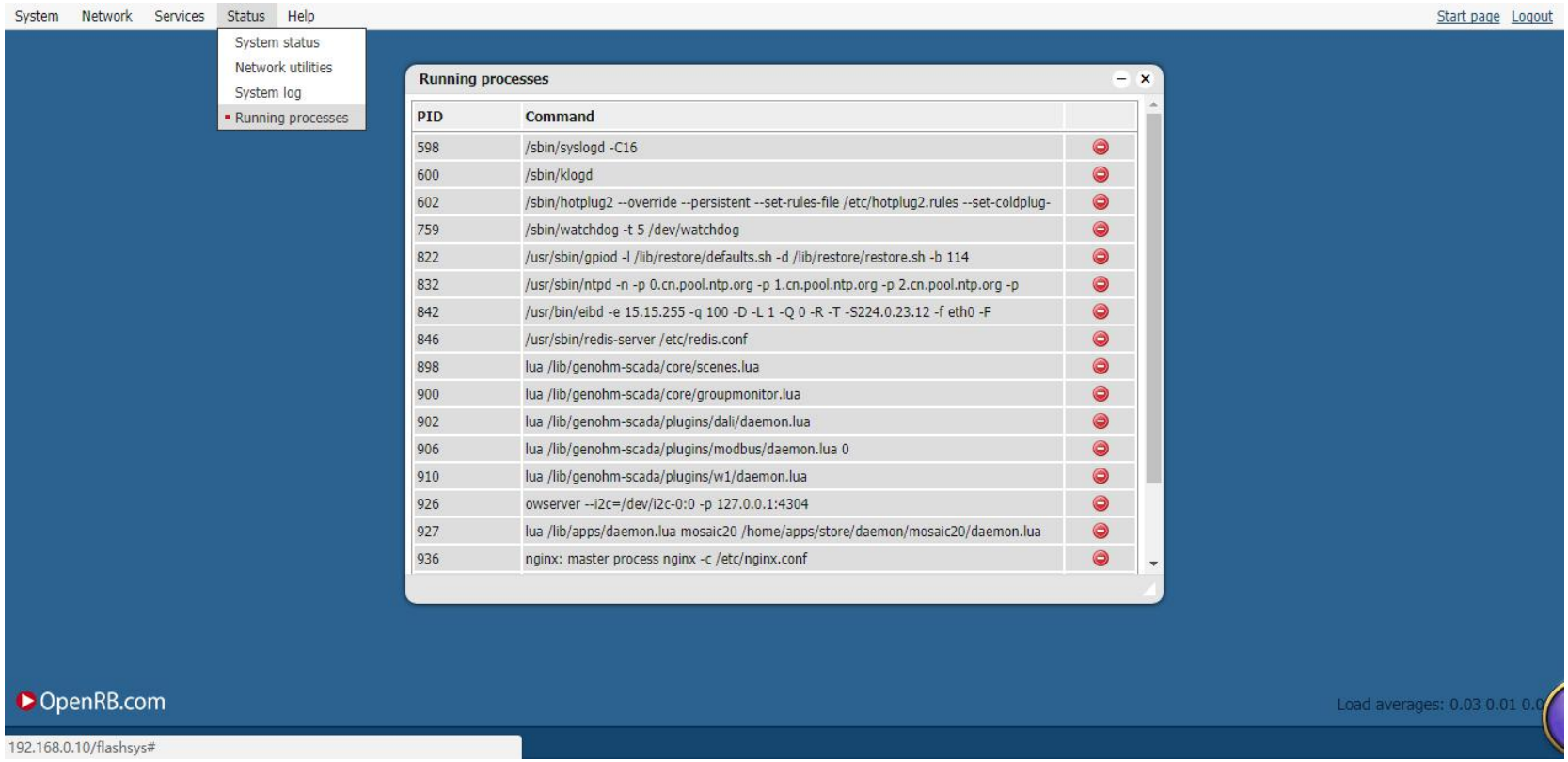
System config > Status > System log

embedded automation



System config > Status > Running processes

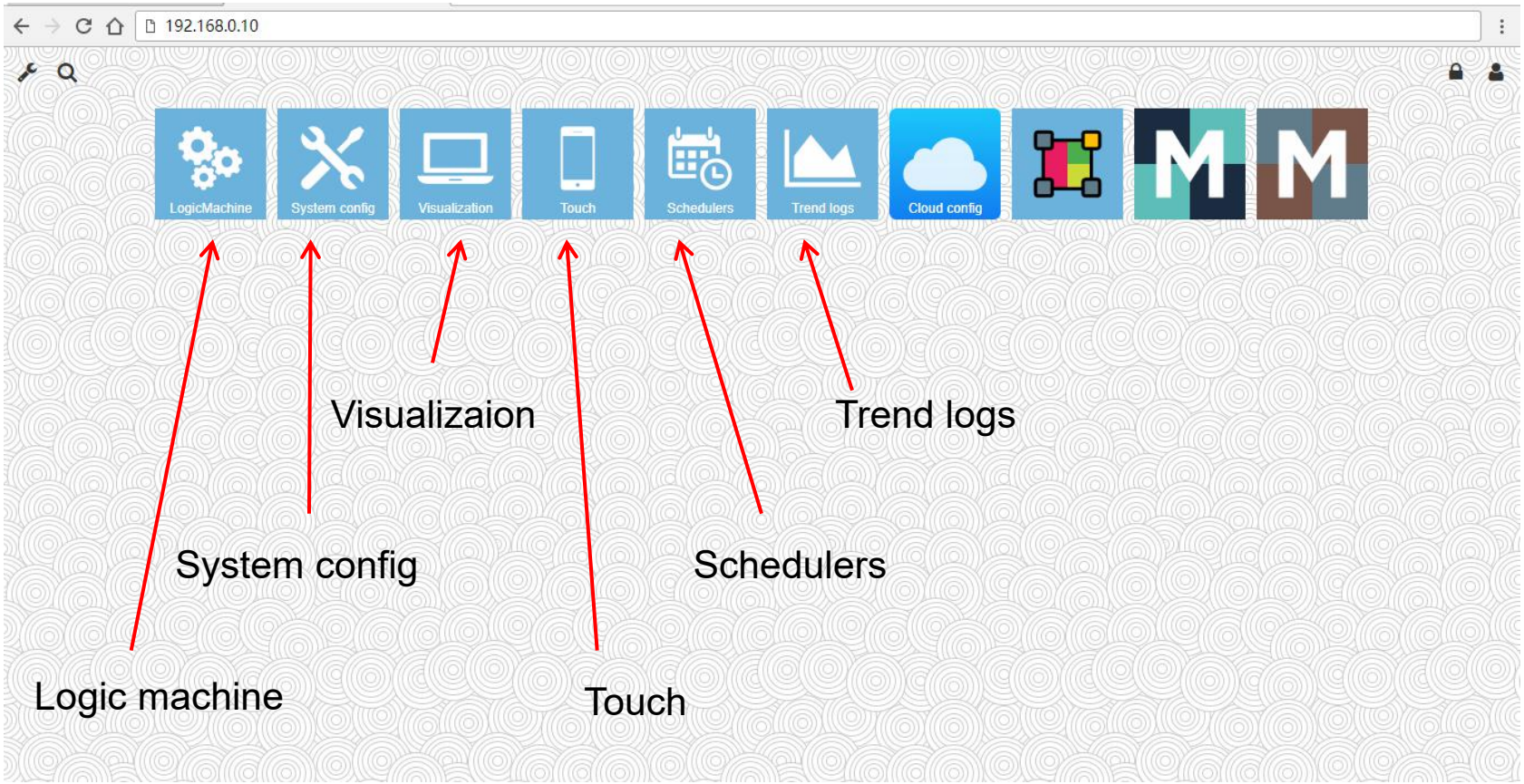
embedded automation

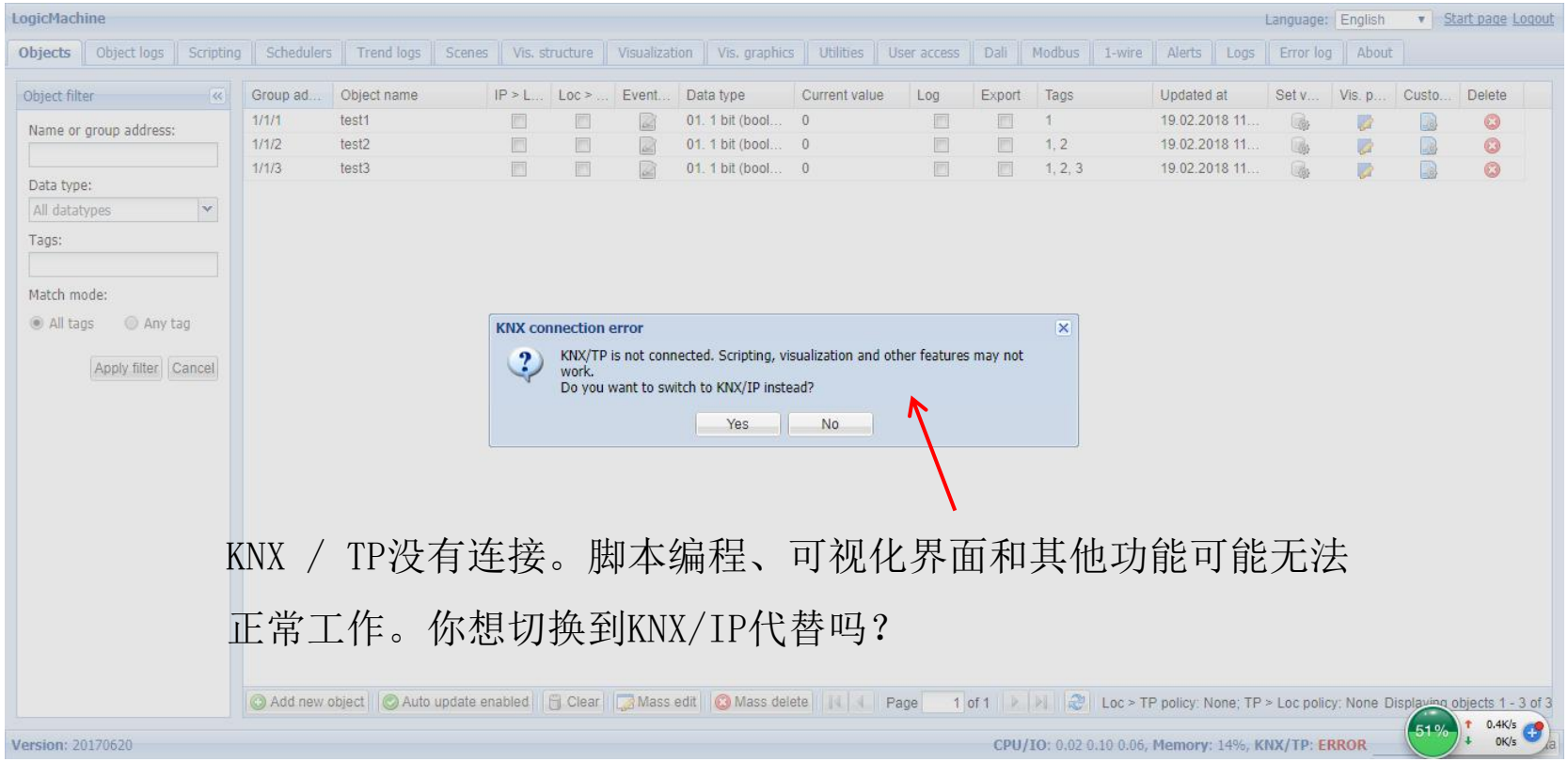


embedded automation

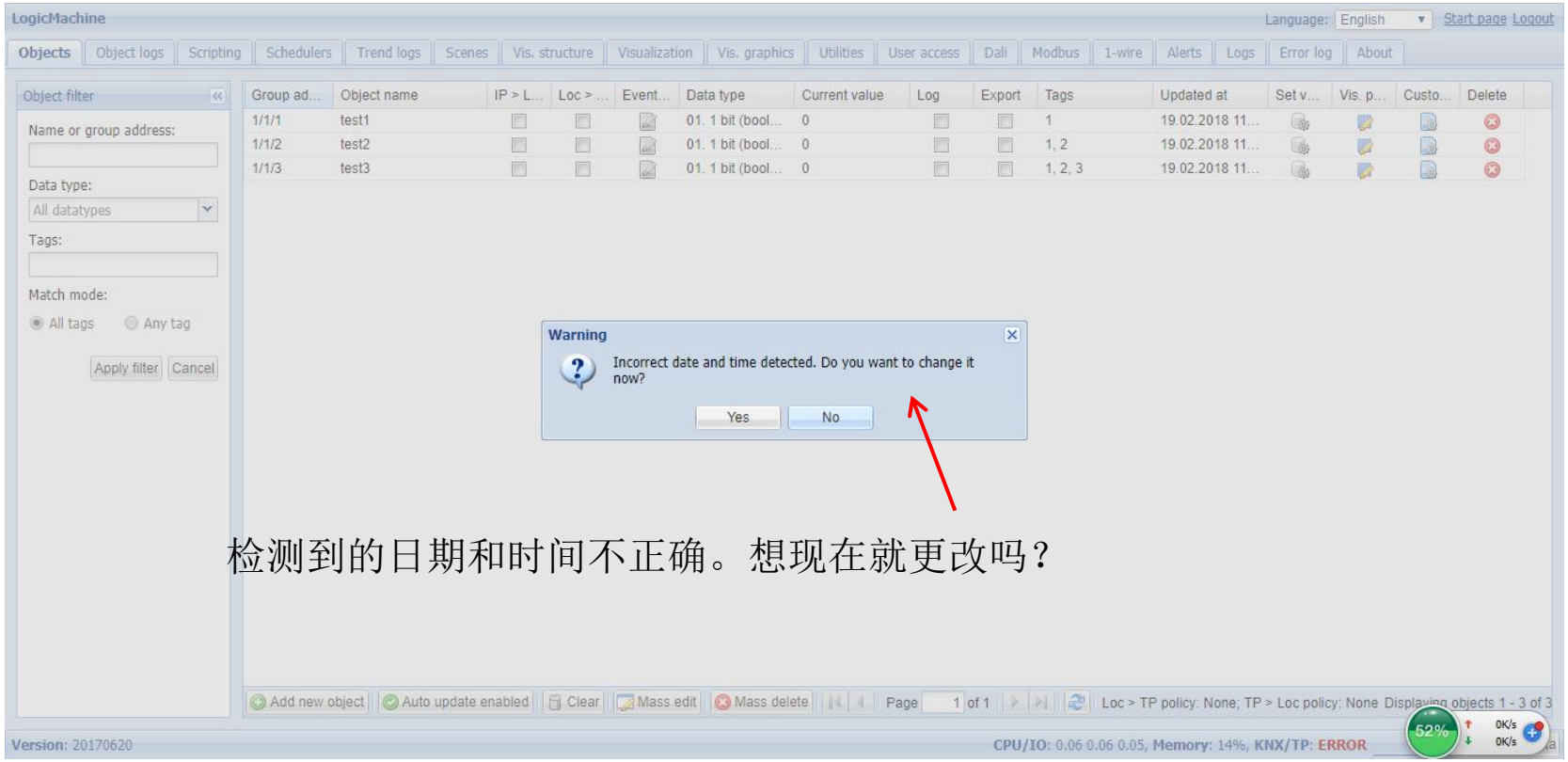
Logic Machine —— 主编辑区

Start page > Logic machine

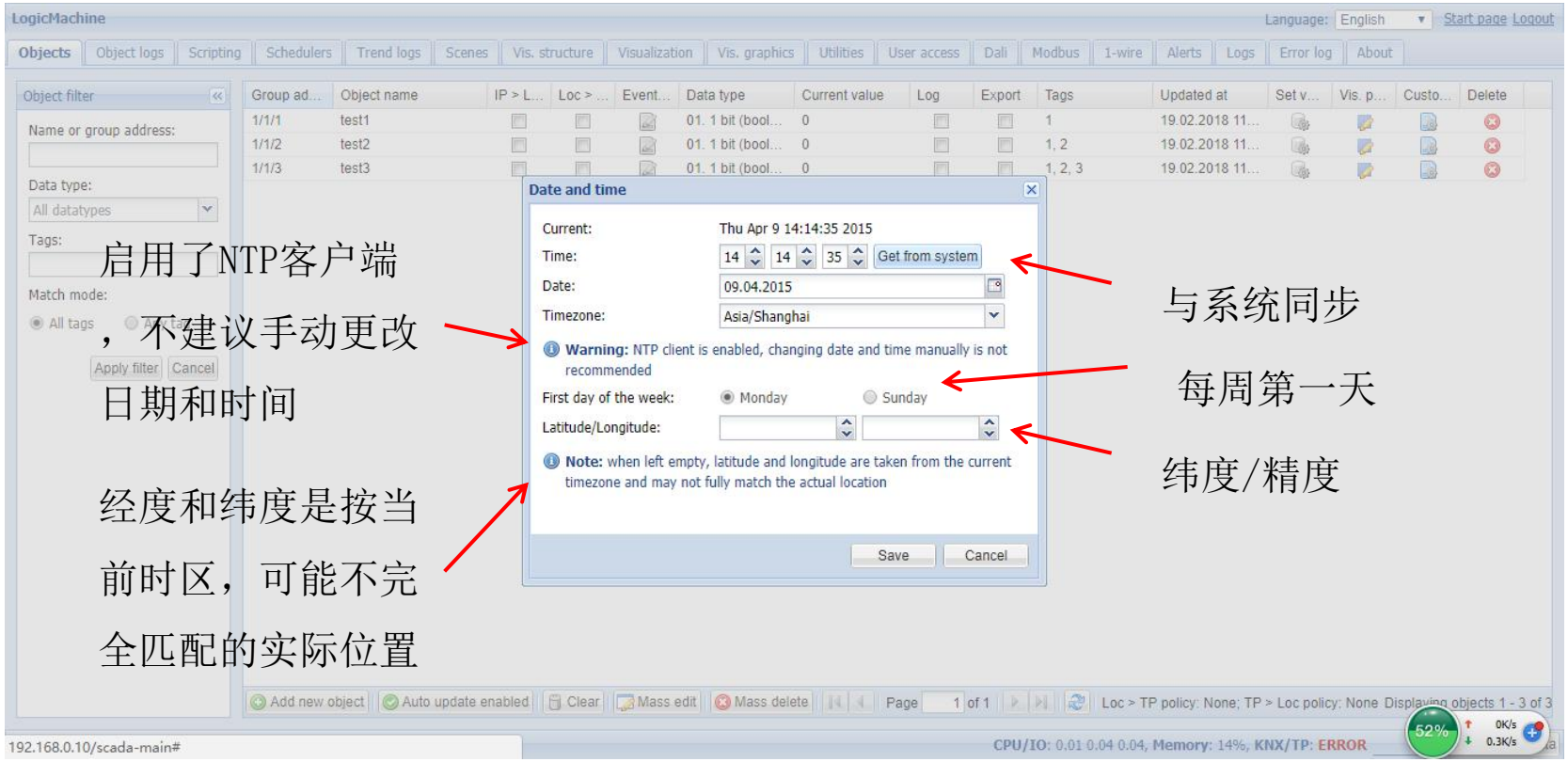




KNX / TP没有连接。脚本编程、可视化界面和其他功能可能无法正常工作。你想切换到KNX/IP代替吗？



检测到的日期和时间不正确。想现在就更改吗？



启用了NTP客户端，不建议手动更改日期和时间

经度和纬度是按当前时区，可能不完全匹配的实际位置

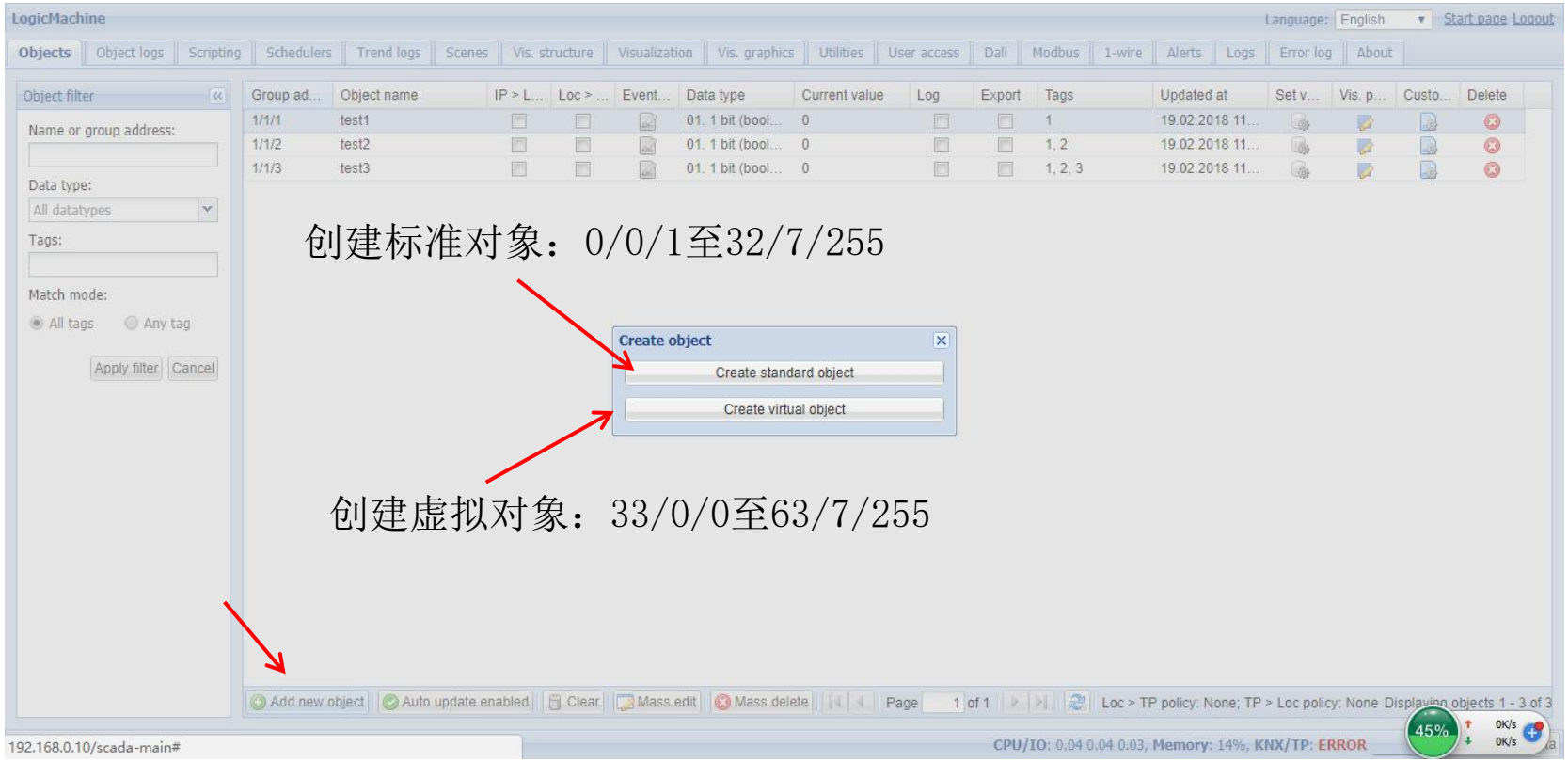
与系统同步

每周第一天

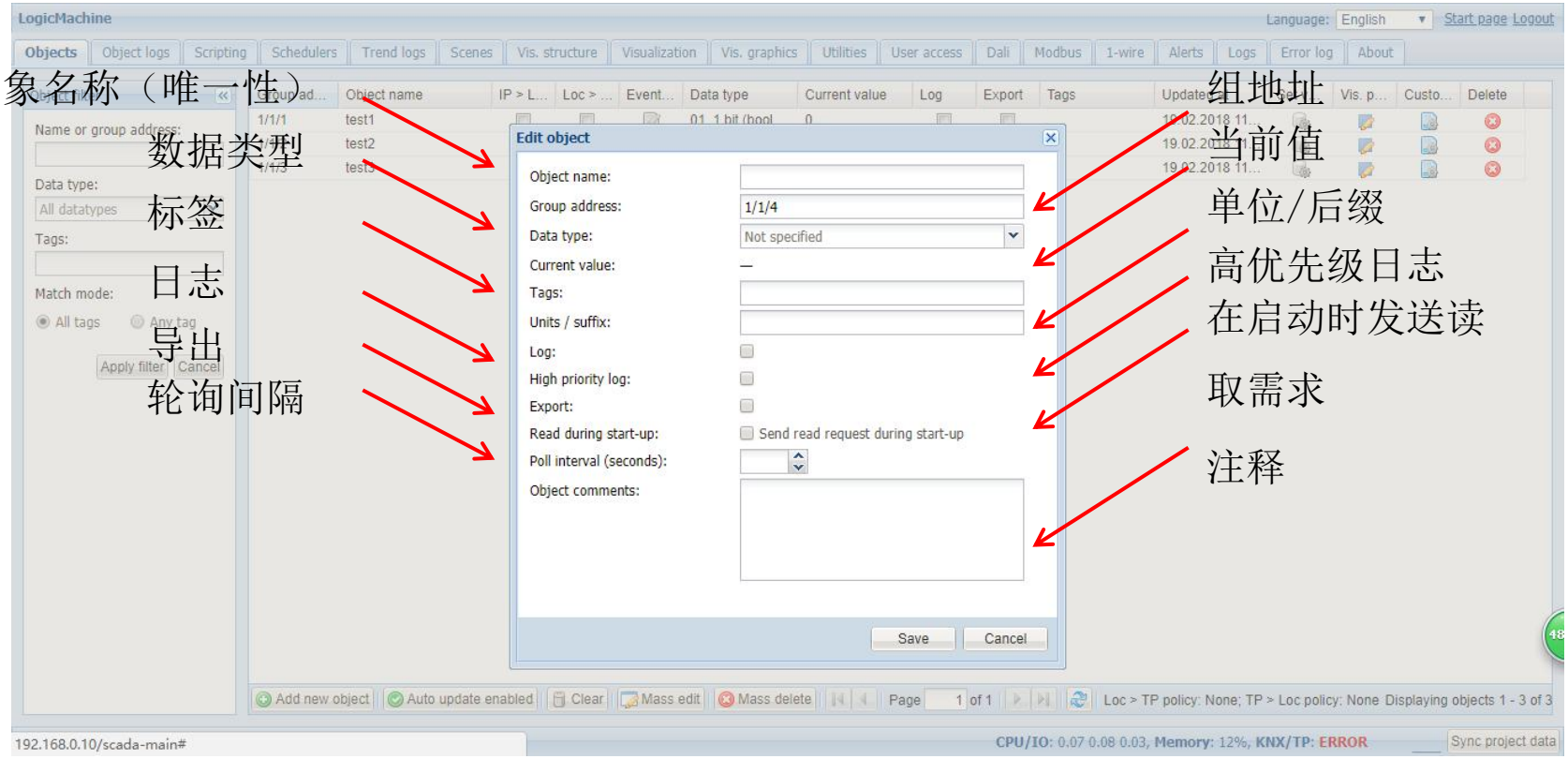
纬度/精度

Objects —— 群组对象

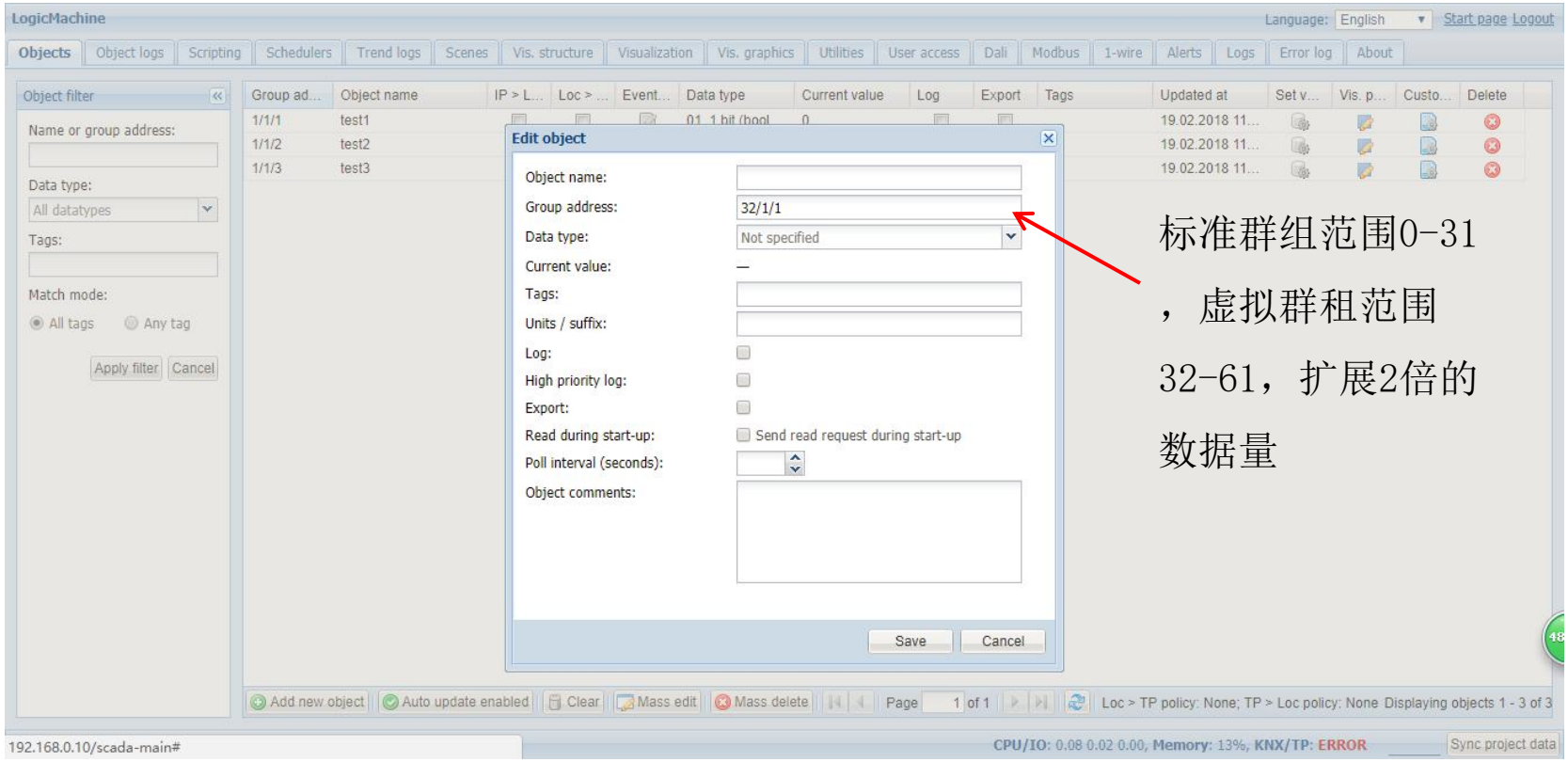
Logic Machine > Objects



Logic Machine > Objects > standard object

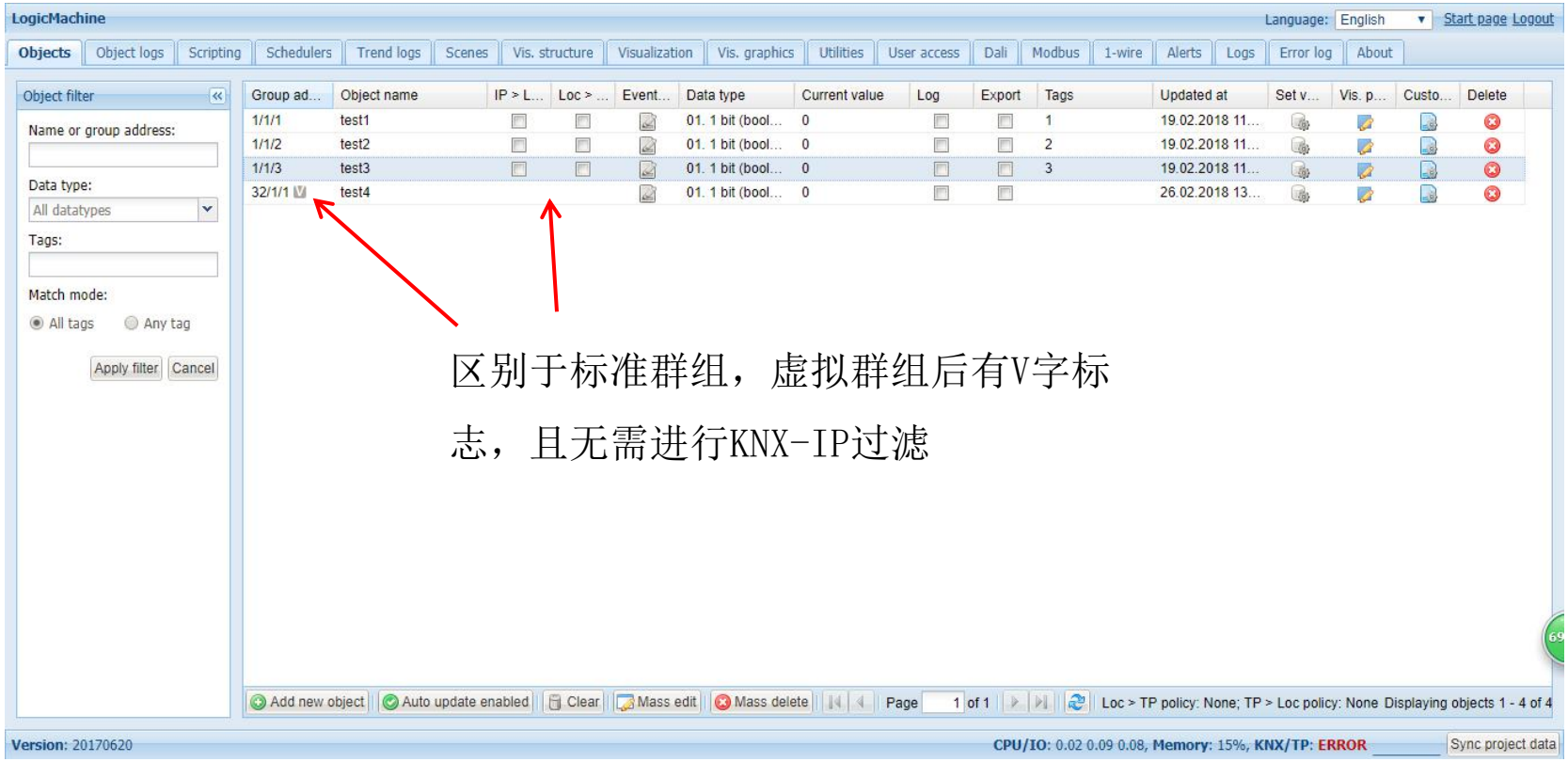


Logic Machine > Objects > virtual object



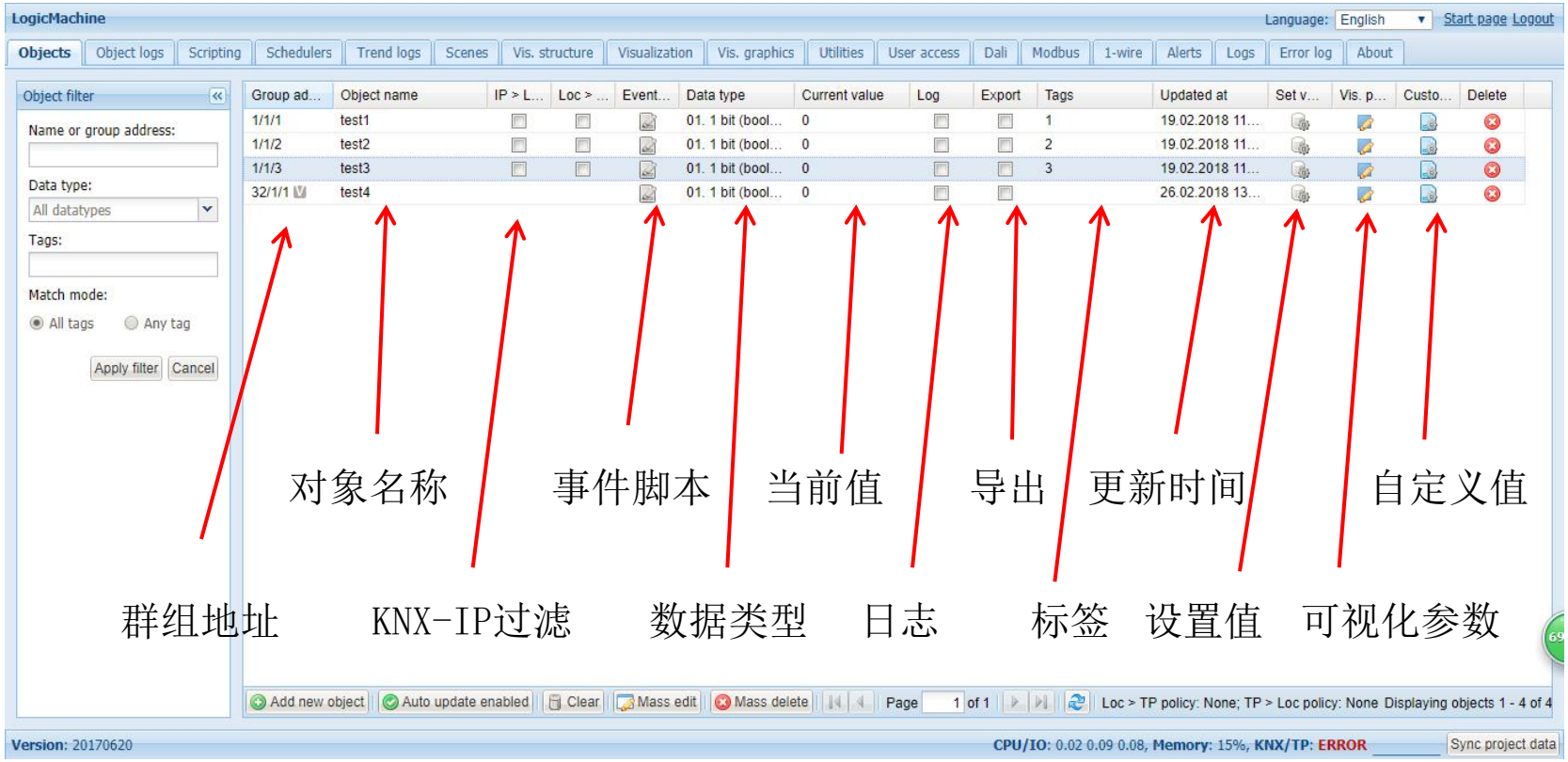
标准群组范围0-31，虚拟群租范围32-61，扩展2倍的数据量

Logic Machine > Objects > virtual object

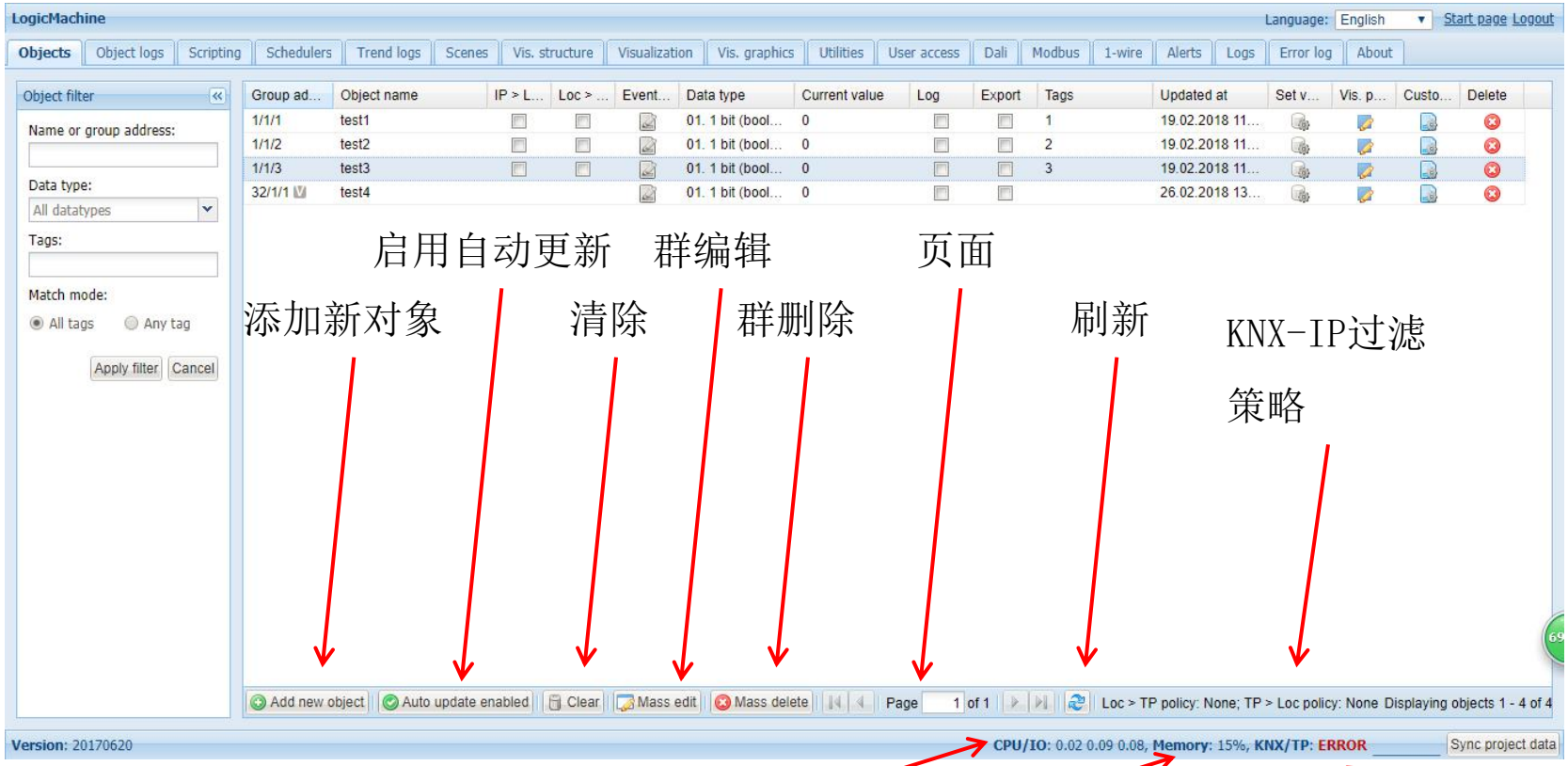


区别于标准群组，虚拟群组后有V字标志，且无需进行KNX-IP过滤

Logic Machine > Objects



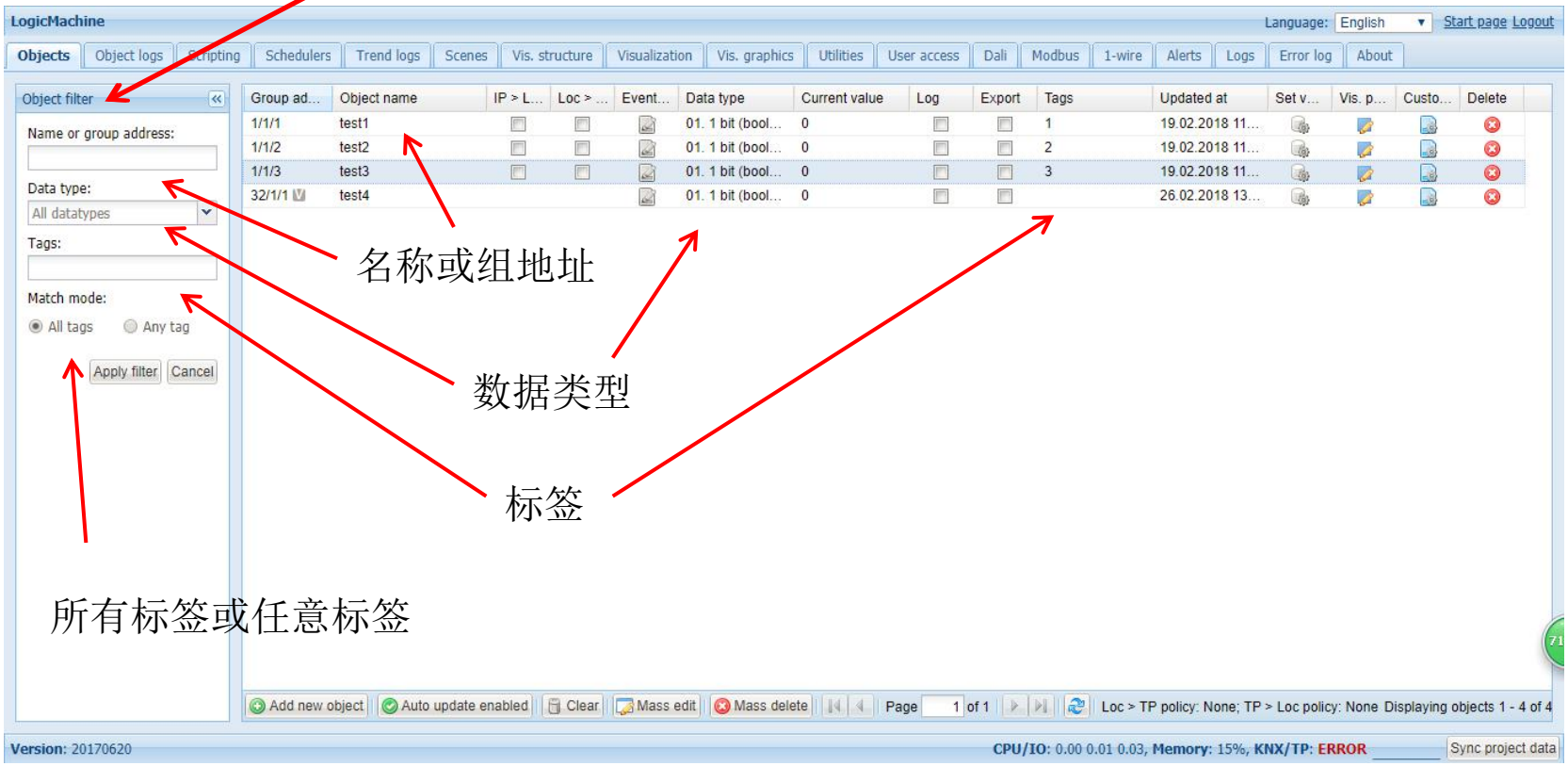
Logic Machine > Objects



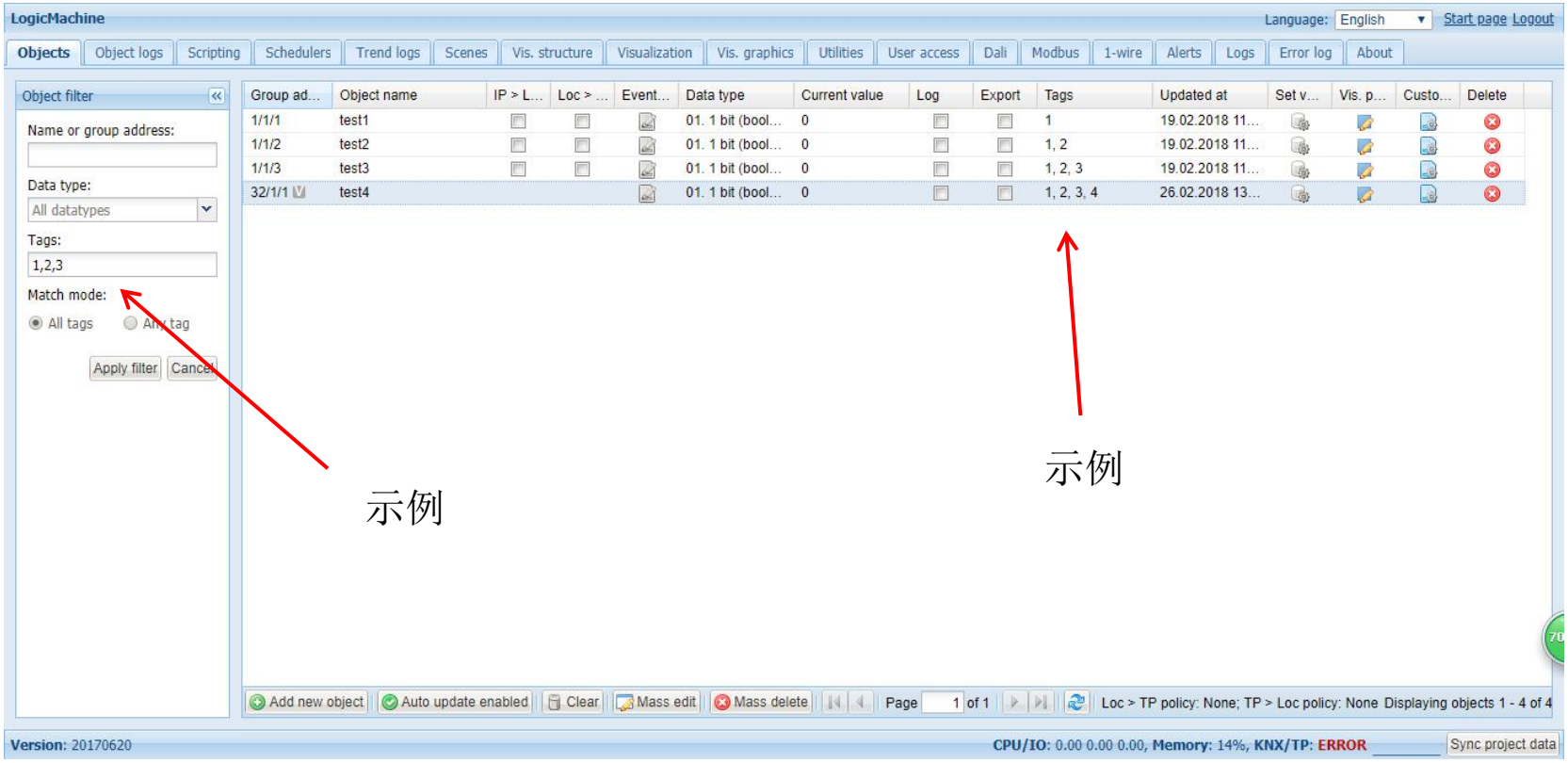
Logic Machine > Objects > Object filter

embedded automation

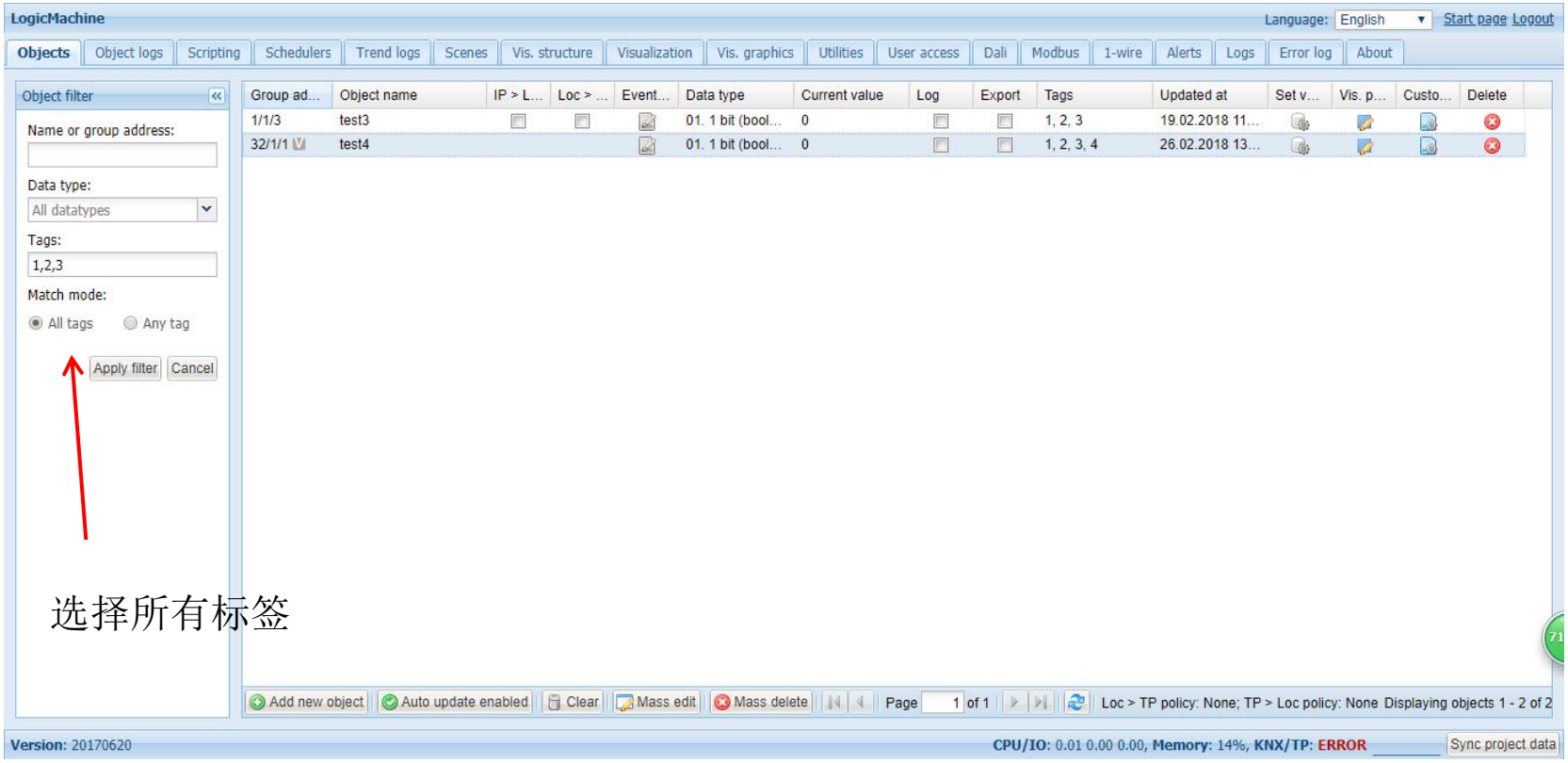
对象过滤功能



Logic Machine > Objects > Object filter

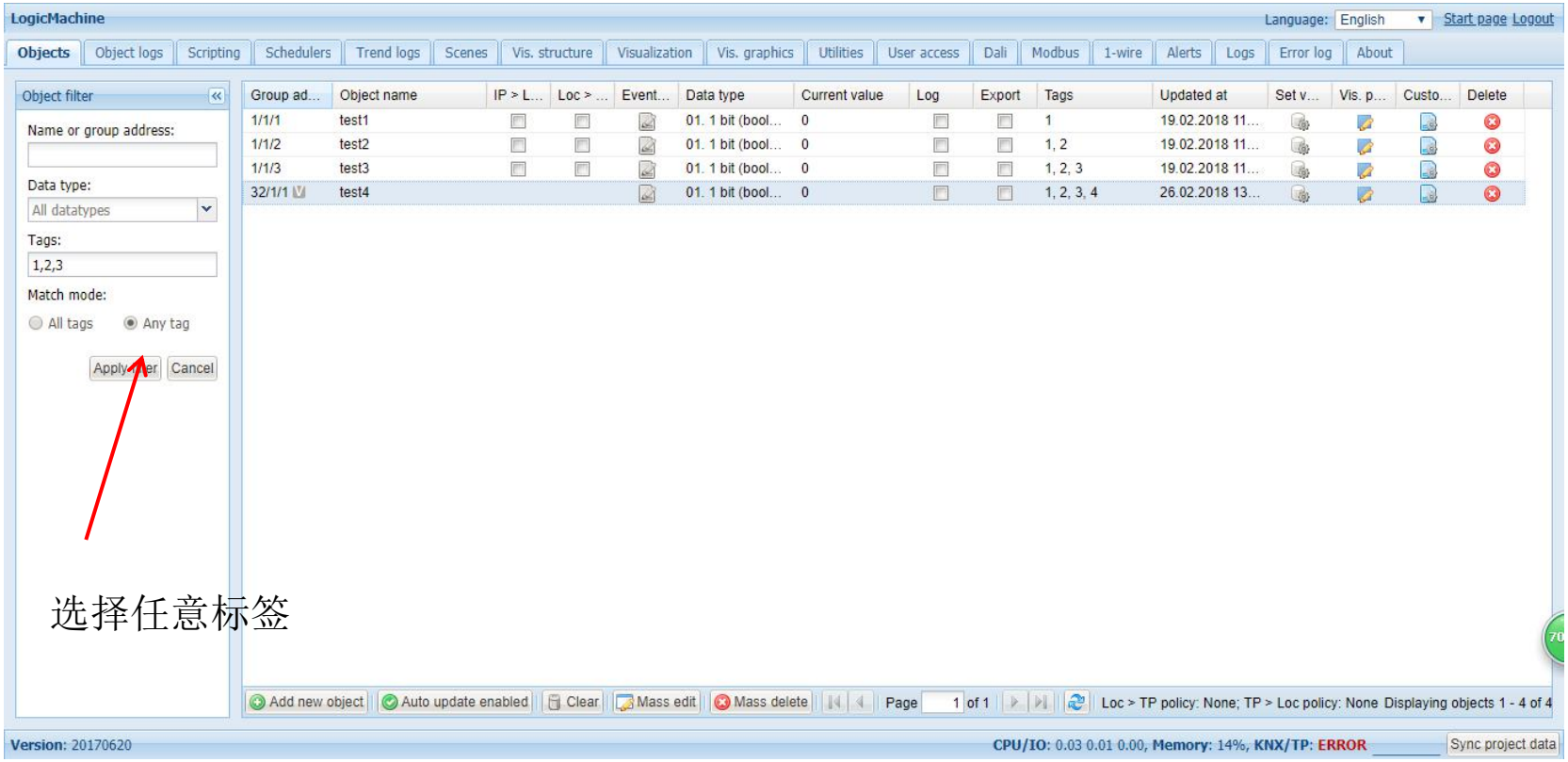


Logic Machine > Objects > Object filter



选择所有标签

Logic Machine > Objects > Object filter

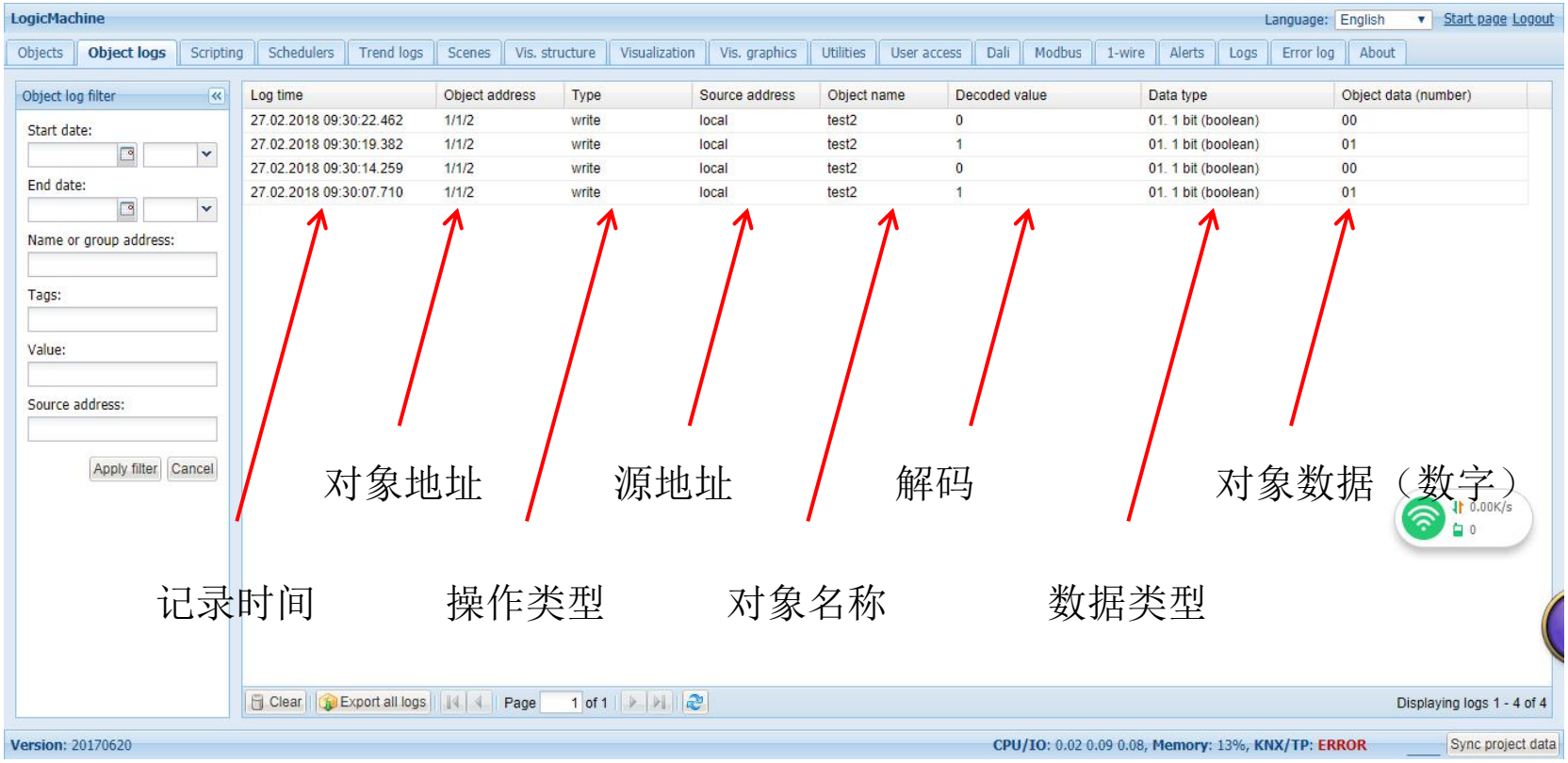


选择任意标签

embedded automation

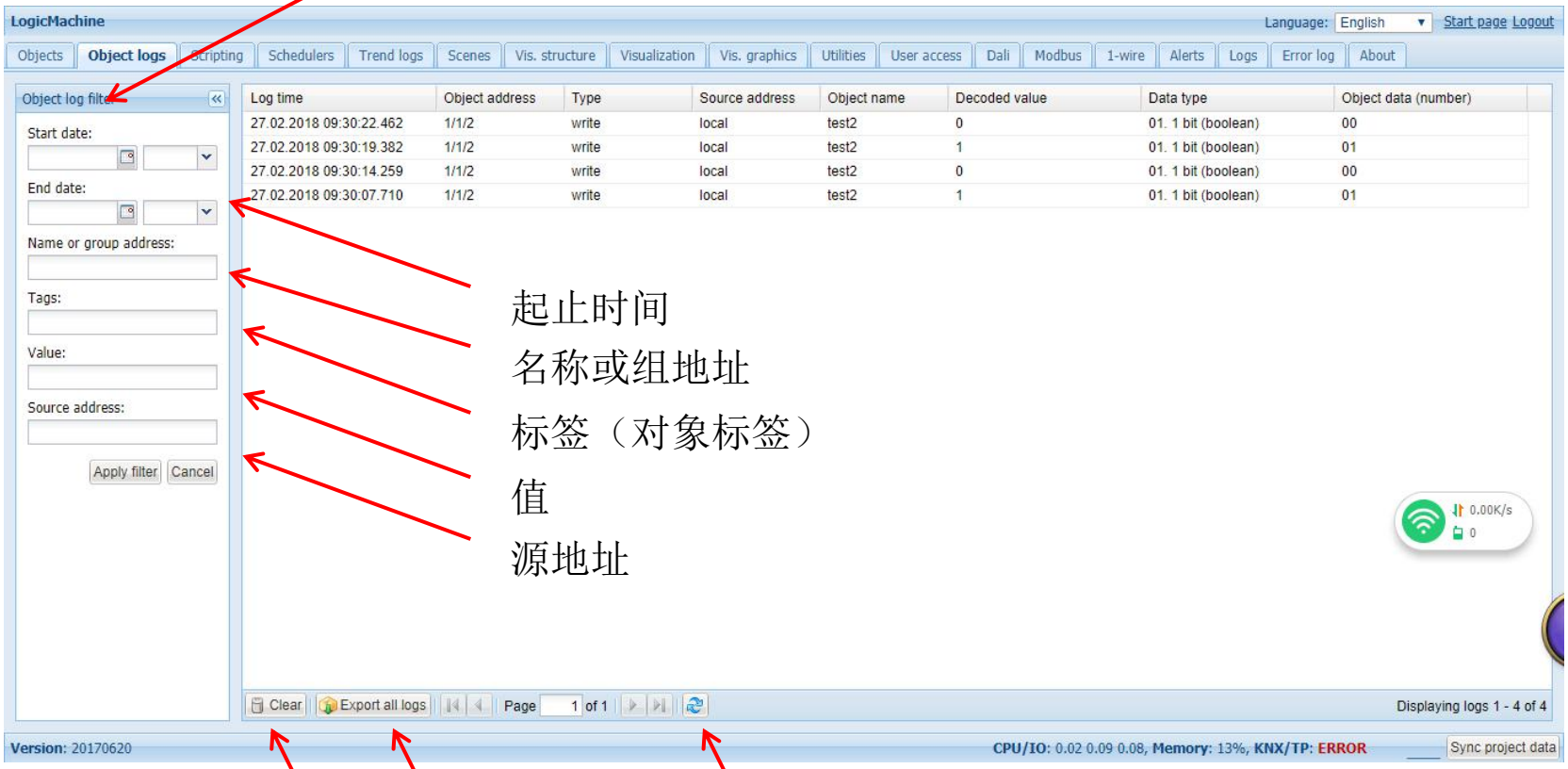
Objects logs —— 群组对象日志

Logic Machine > Objects logs



embedded automation

对象日志过滤功能



清除　导出所有日志　刷新

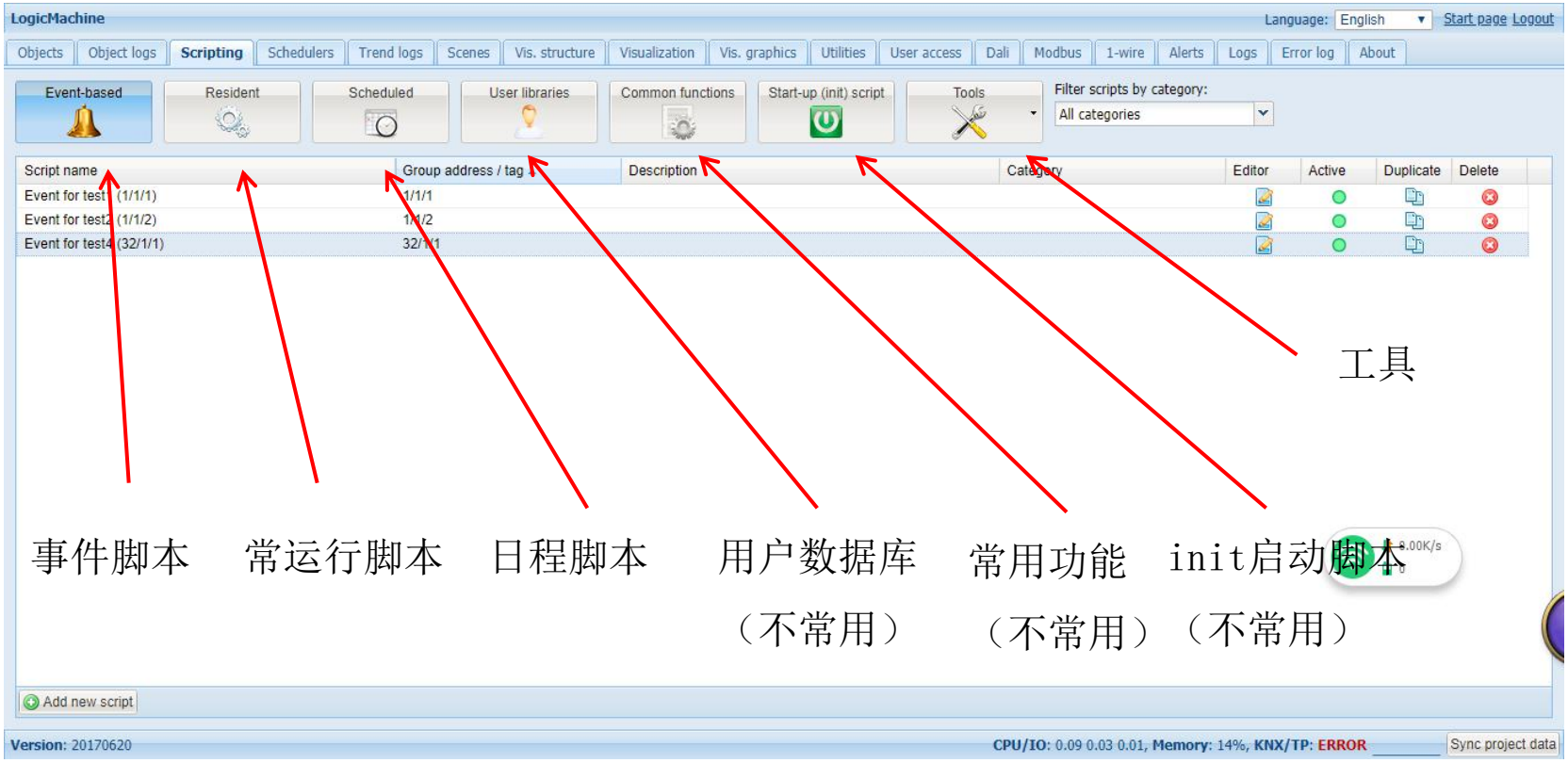
Logic Machine > Objects logs > Object filter

csv的文件后缀

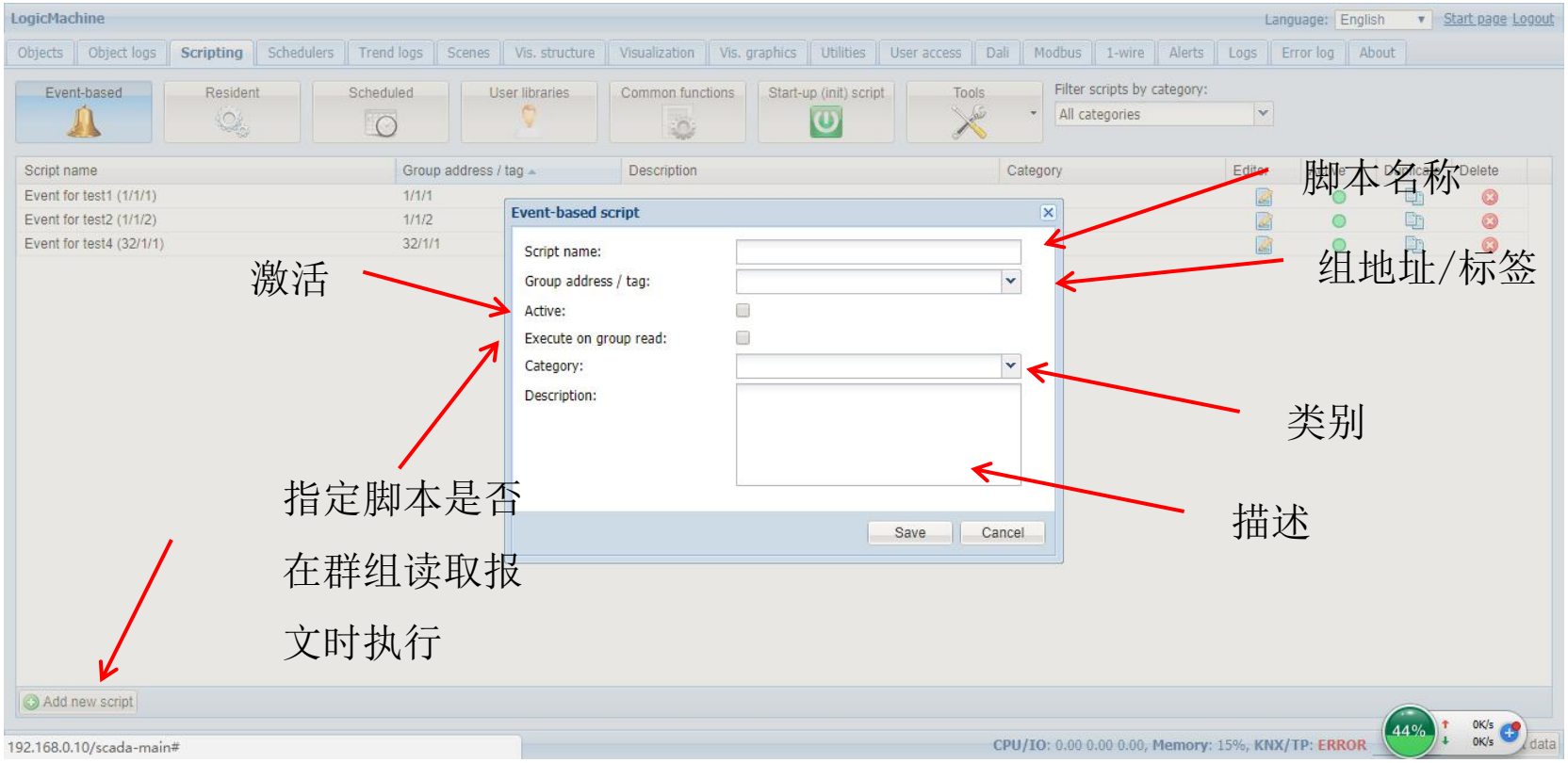
embedded automation

Scripting —— 脚本编辑

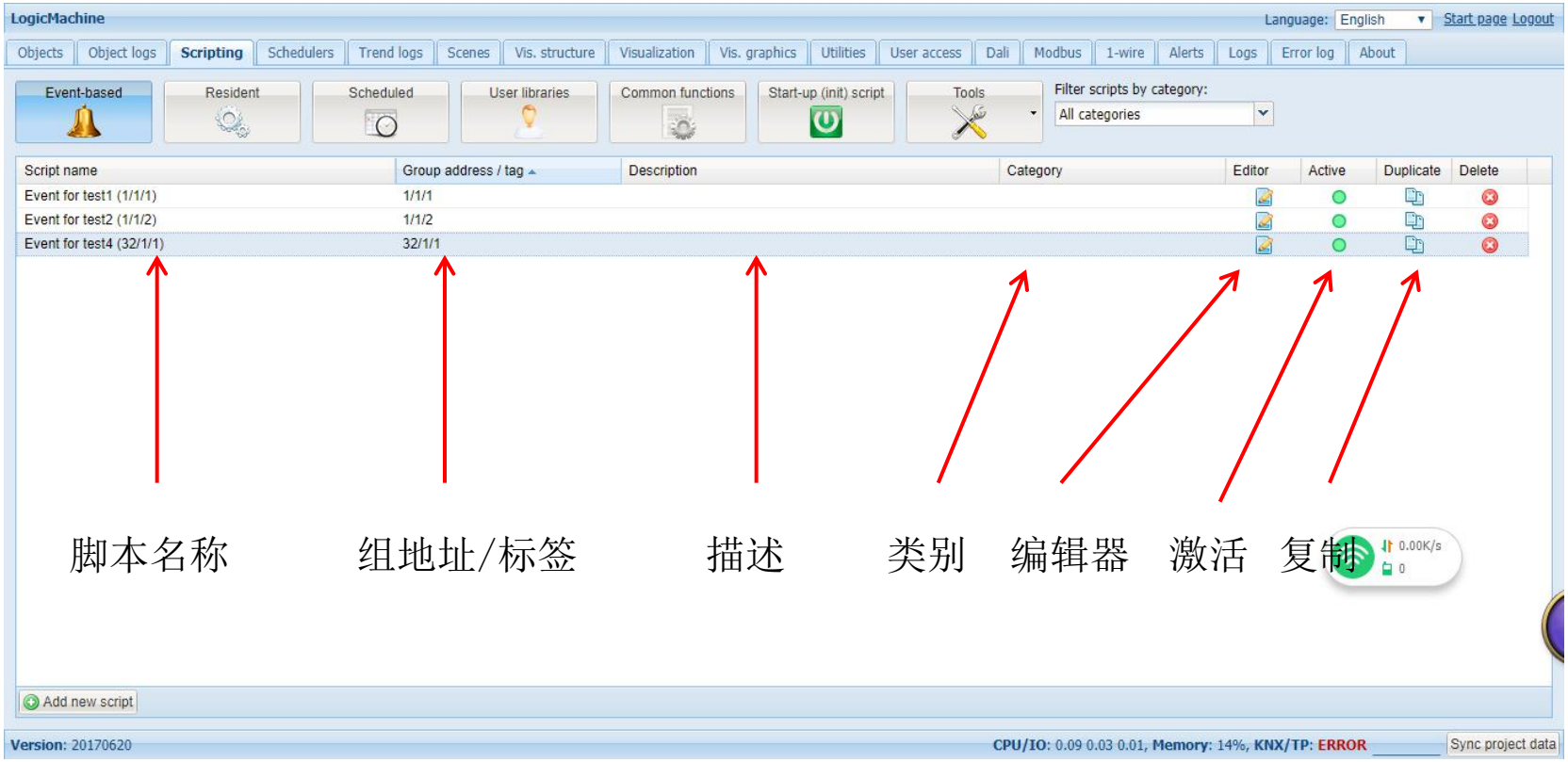
Logic Machine > Scripting



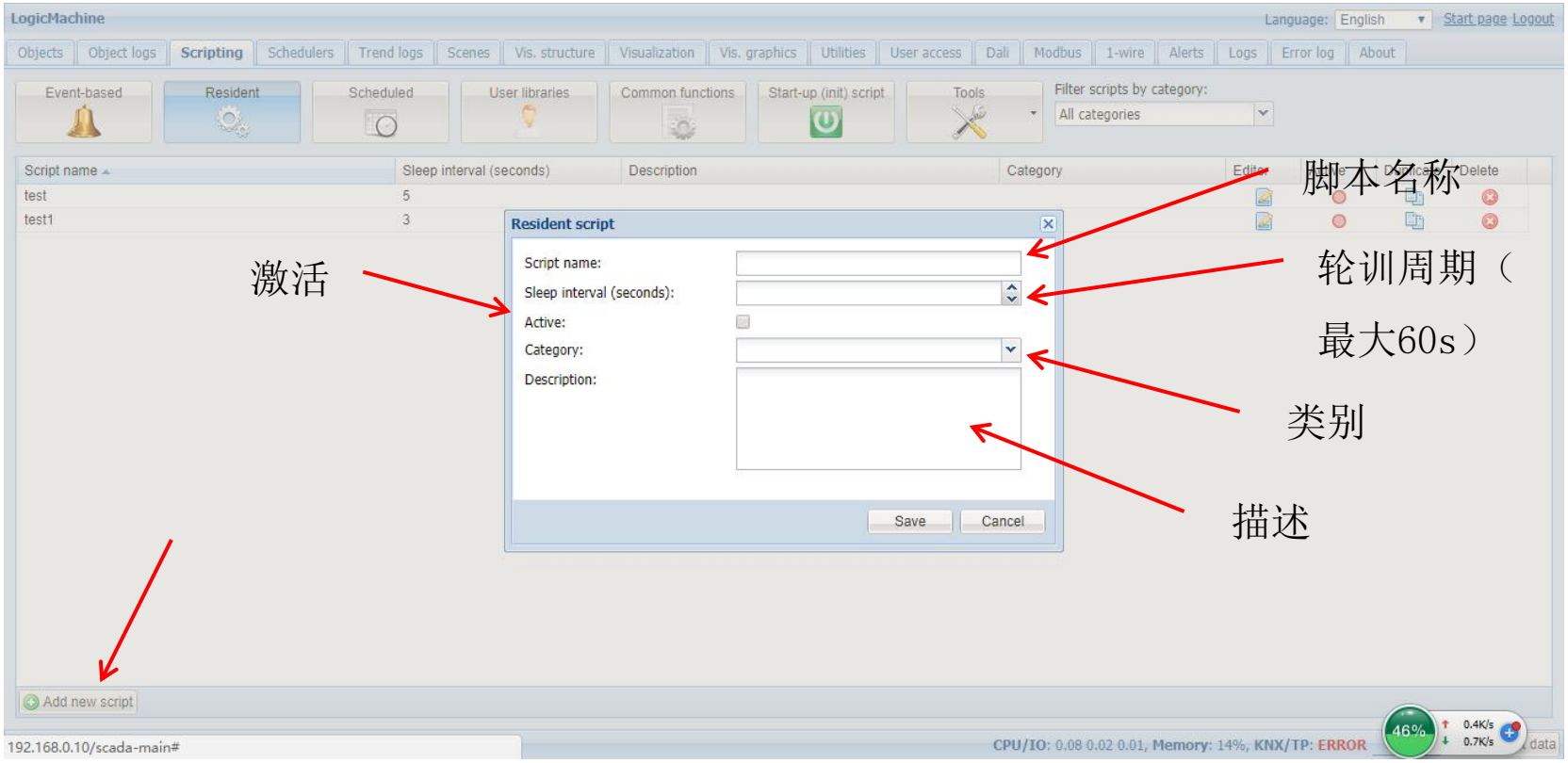
Logic Machine > Scripting > Event-based



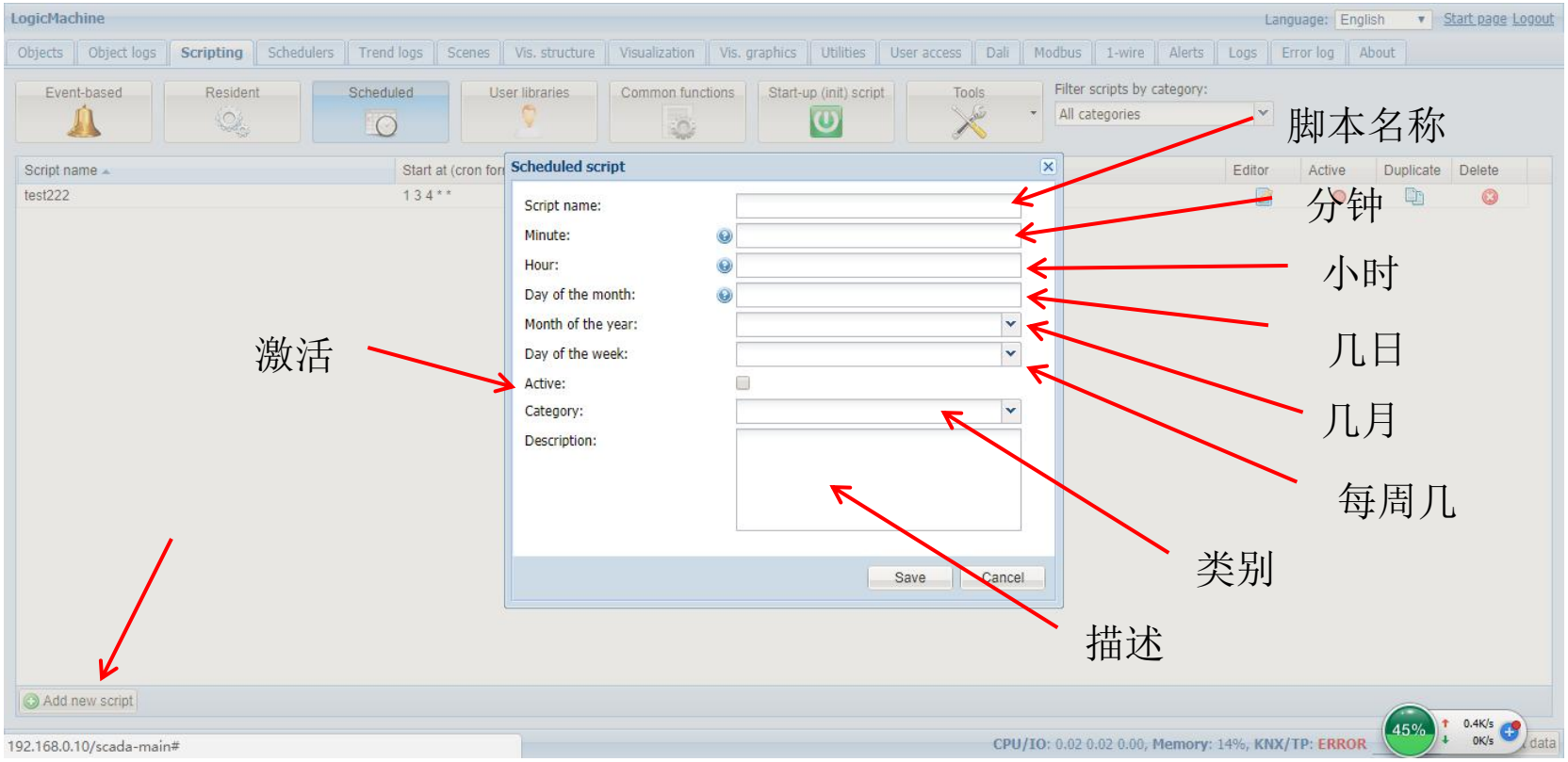
Logic Machine > Scripting > Event-based



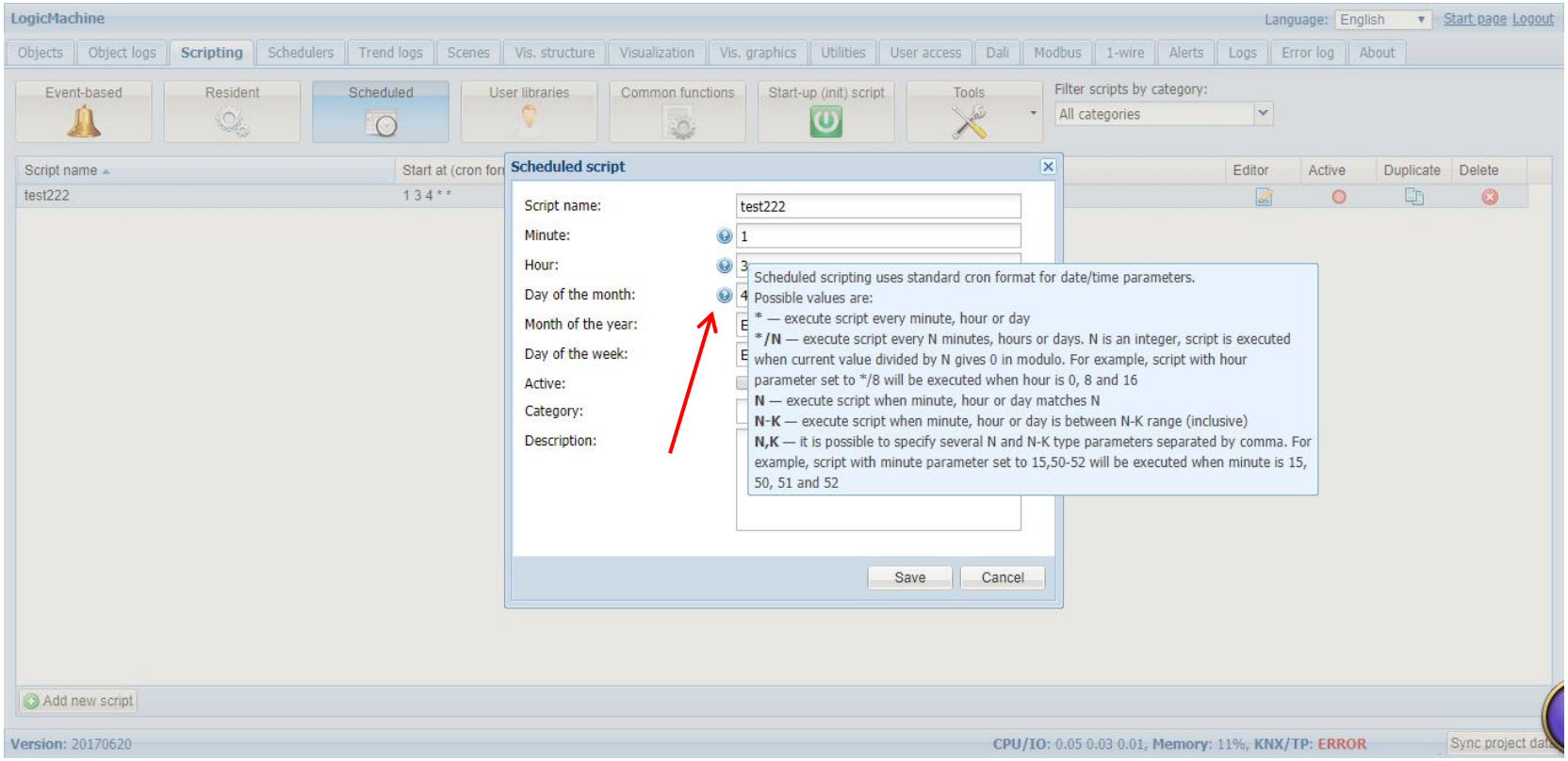
Logic Machine > Scripting > Resident



Logic Machine > Scripting > Scheduled



Logic Machine > Scripting > Scheduled



Logic Machine > Scripting > Scheduled

embedded automation

Scheduled scripting uses standard cron format for date/time parameters.
Possible values are:
* — execute script every minute, hour or day
*/N — execute script every N minutes, hours or days. N is an integer, script is executed when current value divided by N gives 0 in modulo. For example, script with hour parameter set to */8 will be executed when hour is 0, 8 and 16
N — execute script when minute, hour or day matches N
N-K — execute script when minute, hour or day is between N-K range (inclusive)
N,K — it is possible to specify several N and N-K type parameters separated by comma. For example, script with minute parameter set to 15,50-52 will be executed when minute is 15, 50, 51 and 52

日程脚本使用标准的cron格式（源于linux系统）来编辑日期/时间参数：

*：每分钟、小时或天都执行脚本

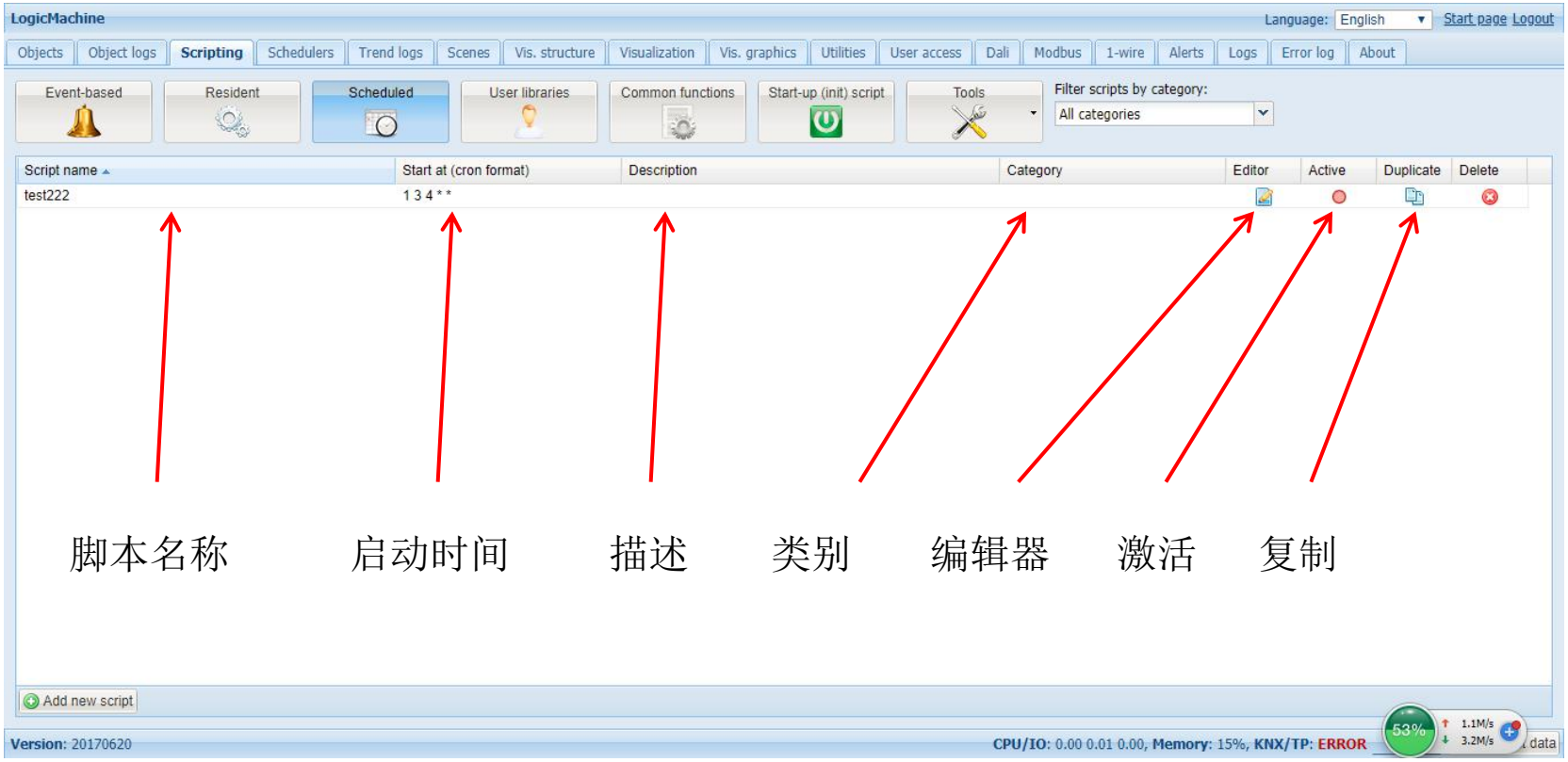
/N：每经过N分钟、小时或天执行脚本。N为整数，当前值除以N得模数（即余数）为0时，脚本执行。例如，脚本的小时参数设置为/8，脚本将会在0点、8点和16点钟执行。

N：脚本在N分、N时或N天执行

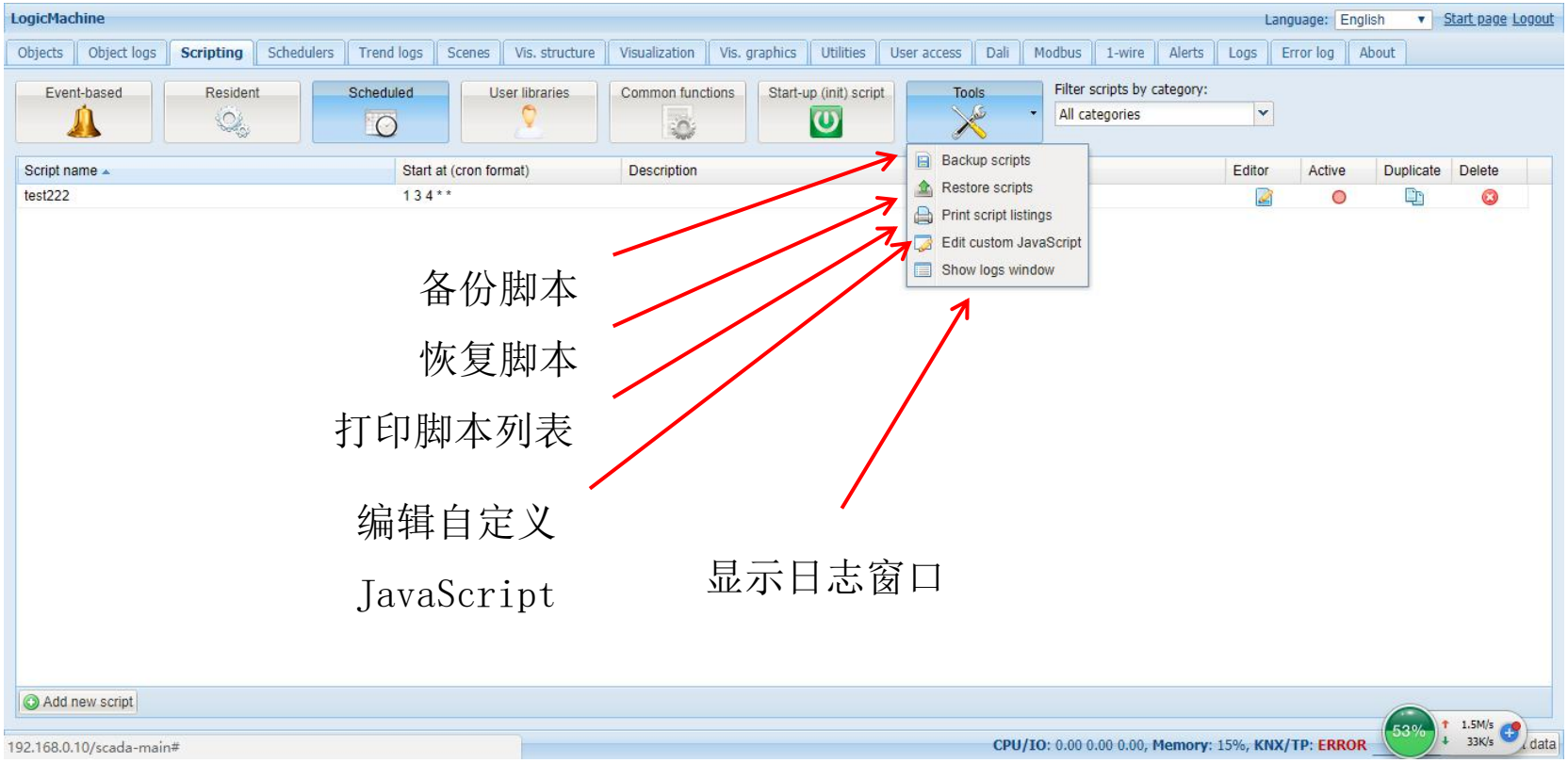
N-K：脚本在N-K时间段执行（包含N和K）

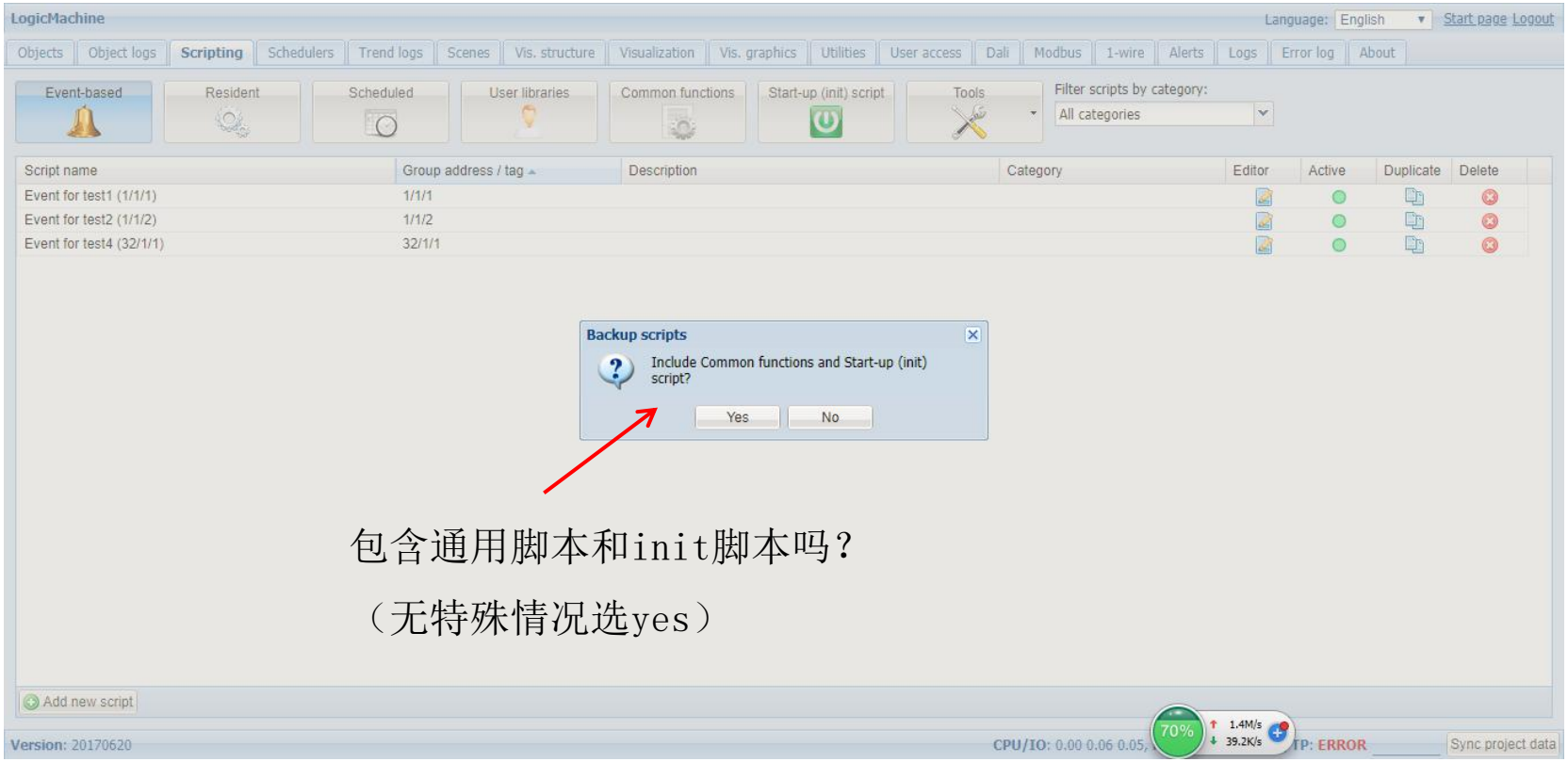
N,K：可以通过逗号（英文字符格式）来将多个N类型和N-K类型的参数进行组合，例如，脚本的分钟参数设置为15,50-52，则脚本将会在15,50,51,52分钟执行

Logic Machine > Scripting > Scheduled



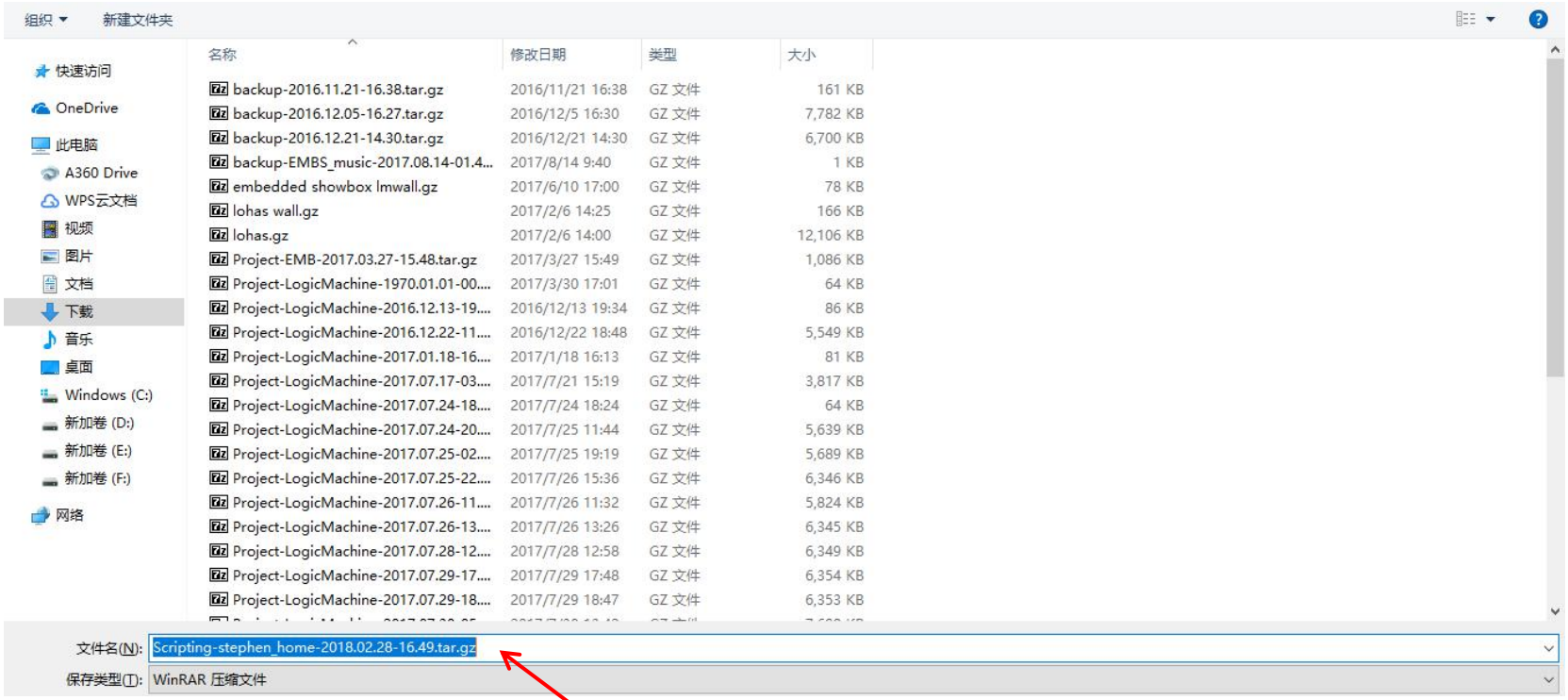
Logic Machine > Scripting > Tools



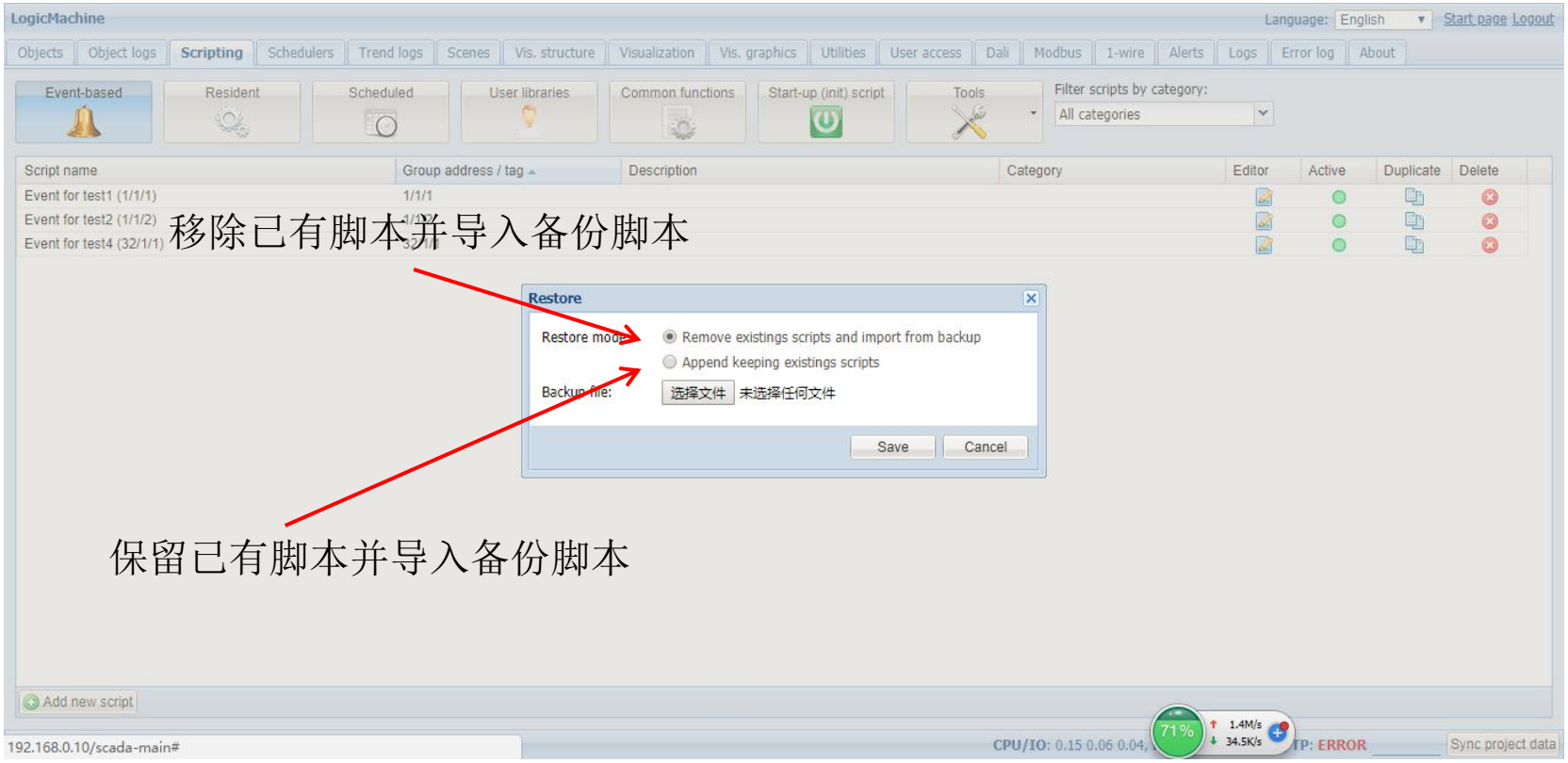


包含通用脚本和init脚本吗？

（无特殊情况选yes）


组织
新建文件夹
名称
修改日期
类型
大小
backup-2016.11.21-16.38.tar.gz 2016/11/21 16:38 GZ 文件 161 KB
backup-2016.12.05-16.27.tar.gz 2016/12/5 16:30 GZ 文件 7,782 KB
backup-2016.12.21-14.30.tar.gz 2016/12/21 14:30 GZ 文件 6,700 KB
backup-EMBS_music-2017.08.14-01.4... 2017/8/14 9:40 GZ 文件 1 KB
embedded showbox lmwall.gz 2017/6/10 17:00 GZ 文件 78 KB
lohas wall.gz 2017/2/6 14:25 GZ 文件 166 KB
lohas.gz 2017/2/6 14:00 GZ 文件 12,106 KB
Project-EMB-2017.03.27-15.48.tar.gz 2017/3/27 15:49 GZ 文件 1,086 KB
Project-LogicMachine-1970.01.01-00.... 2017/3/30 17:01 GZ 文件 64 KB
Project-LogicMachine-2016.12.13-19.... 2016/12/13 19:34 GZ 文件 86 KB
Project-LogicMachine-2016.12.22-11.... 2016/12/22 18:48 GZ 文件 5,549 KB
Project-LogicMachine-2017.01.18-16.... 2017/1/18 16:13 GZ 文件 81 KB
Project-LogicMachine-2017.07.17-03.... 2017/7/21 15:19 GZ 文件 3,817 KB
Project-LogicMachine-2017.07.24-18.... 2017/7/24 18:24 GZ 文件 64 KB
Project-LogicMachine-2017.07.24-20.... 2017/7/25 11:44 GZ 文件 5,639 KB
Project-LogicMachine-2017.07.25-02.... 2017/7/25 19:19 GZ 文件 5,689 KB
Project-LogicMachine-2017.07.25-22.... 2017/7/26 15:36 GZ 文件 6,346 KB
Project-LogicMachine-2017.07.26-11.... 2017/7/26 11:32 GZ 文件 5,824 KB
Project-LogicMachine-2017.07.26-13.... 2017/7/26 13:26 GZ 文件 6,345 KB
Project-LogicMachine-2017.07.28-12.... 2017/7/28 12:58 GZ 文件 6,349 KB
Project-LogicMachine-2017.07.29-17.... 2017/7/29 17:48 GZ 文件 6,354 KB
Project-LogicMachine-2017.07.29-18.... 2017/7/29 18:47 GZ 文件 6,353 KB
快速访问
OneDrive
此电脑
A360 Drive
WPS云文档
视频
图片
文档
下载
音乐
桌面
Windows (C:)
新加卷 (D:)
新加卷 (E:)
新加卷 (F:)
网络
文件名(N): Scripting-stephen_home-2018.02.28-16.49.tar.gz
保存类型(T): WinRAR 压缩文件

.tar.gz的文件后缀


LogicMachine
Language: English
Start page Logout
Objects
Object logs
Scripting
Schedulers
Trend logs
Scenes
Vis. structure
Visualization
Vis. graphics
Utilities
User access
Dali
Modbus
1-wire
Alerts
Logs
Error log
About
Event-based
Resident
Scheduled
User libraries
Common functions
Start-up (init) script
Tools
Filter scripts by category:
All categories
Script name
Group address / tag
Description
Category
Editor
Active
Duplicate
Delete
Event for test1 (1/1/1)
1/1/1
Event for test2 (1/1/2)
Event for test4 (32/1/1)
移除已有脚本并导入备份脚本
Restore
Restore mode:
Remove existings scripts and import from backup
Append keeping existings scripts
Backup file:
选择文件
未选择任何文件
Save
Cancel
保留已有脚本并导入备份脚本
Add new script
192.168.0.10/scada-main#
CPU/IO: 0.15 0.06 0.04,
71%
1.4M/s
34.5K/s
TP: ERROR
Sync project data

弹出新网页对话框

Event for test2 (1/1/2)

Type: Event-based
Active: Yes
Group address / tag: 1/1/2

Event for test4 (32/1/1)

Type: Event-based
Active: Yes
Group address / tag: 32/1/1

Category: Unknown

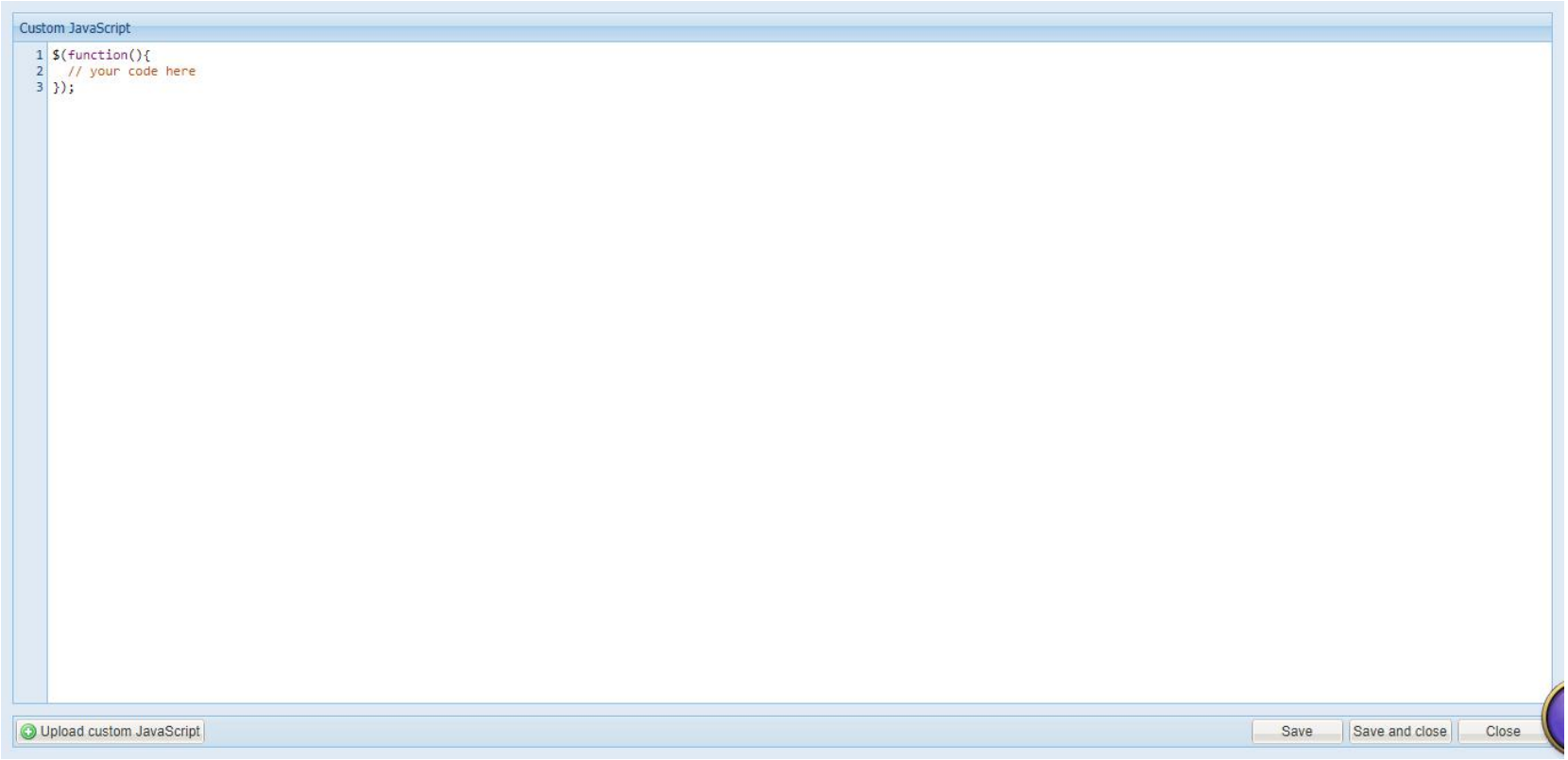
test

Type: Resident
Active: No
Sleep interval (seconds): 5

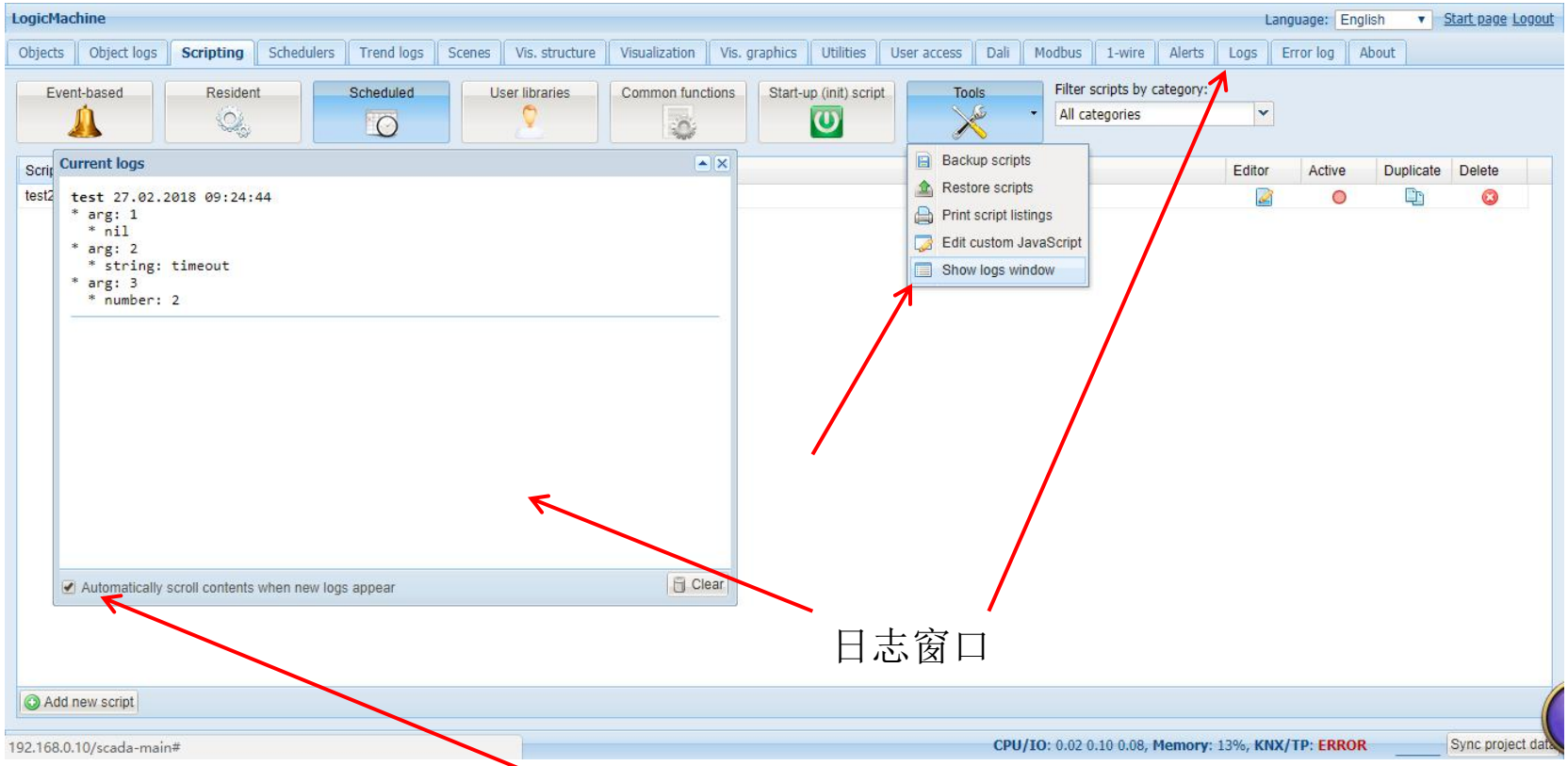
```
require('serial')
port = serial.open('/dev/RS485-1', {
  baudrate = 9600,
  databits = 8,
  stopbits = 1,
  parity = 'none',
  duplex = 'half'
})

data = port:read(10, 1)
```

Logic Machine > Scripting > Tools > JavaScript

embedded automation



Logic Machine > Scripting > Tools > Show logs window



日志窗口

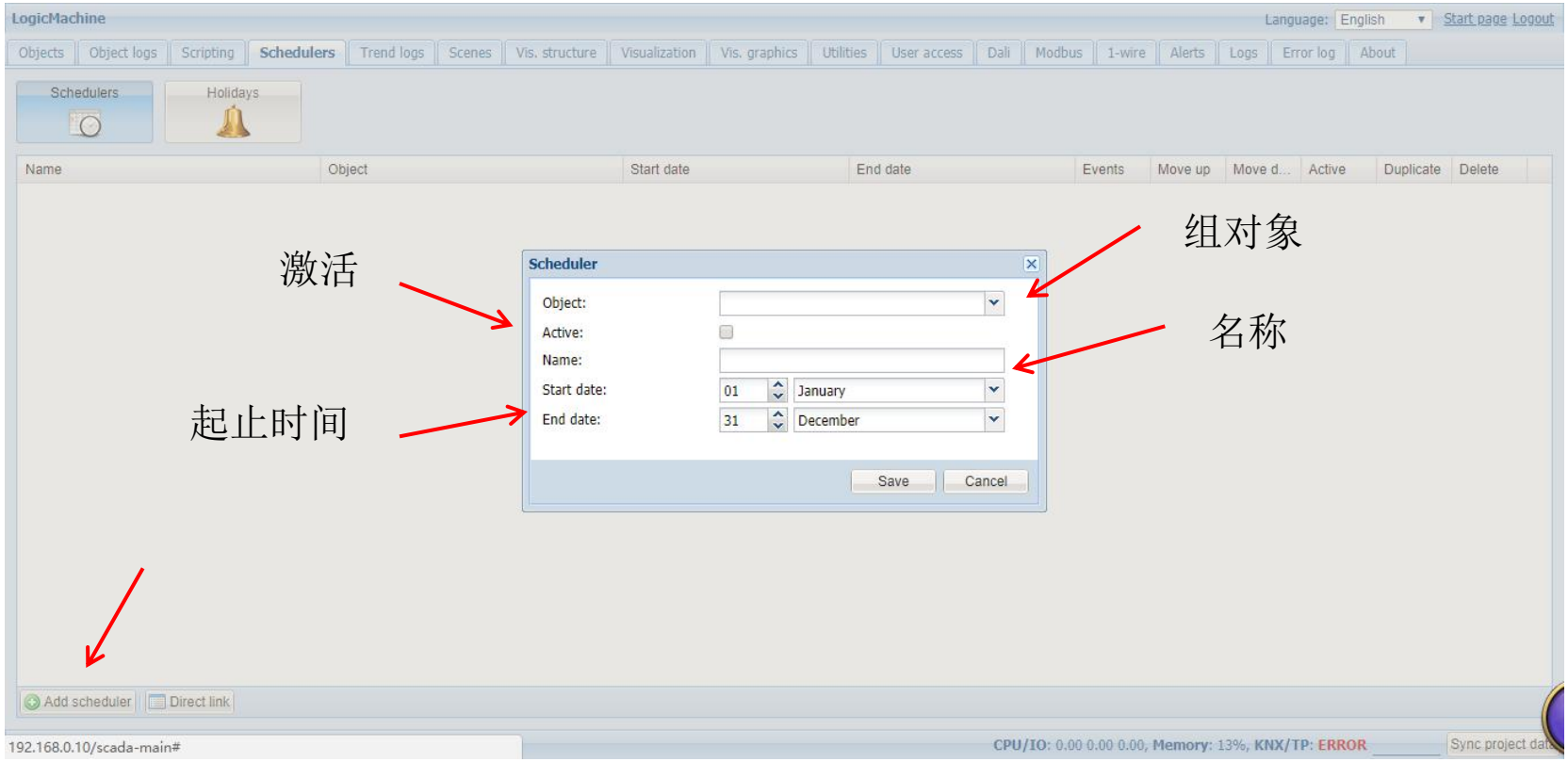
当新日志出现时自动滚动内容

embedded automation

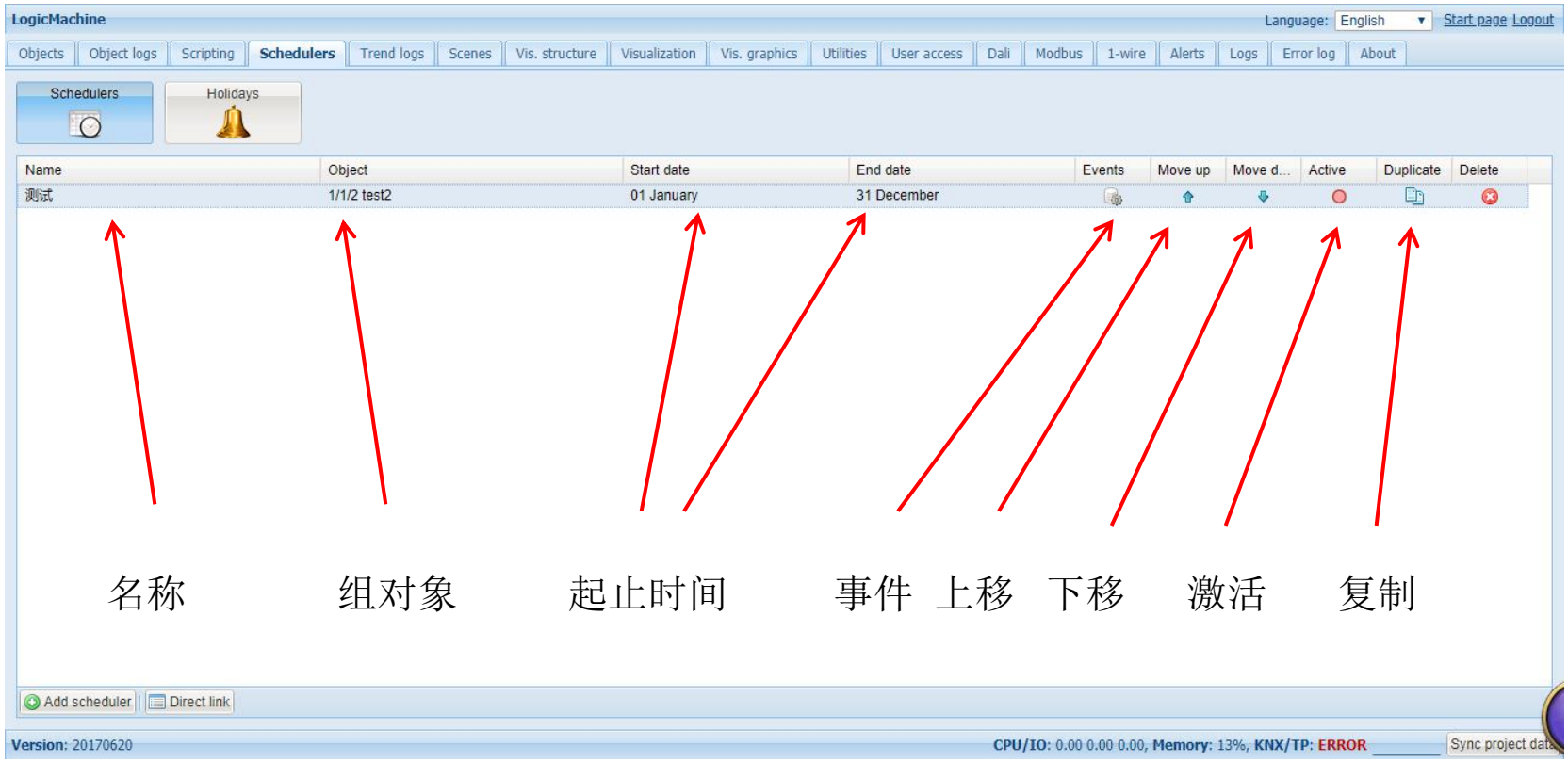
Schedulers —— 日程表编辑

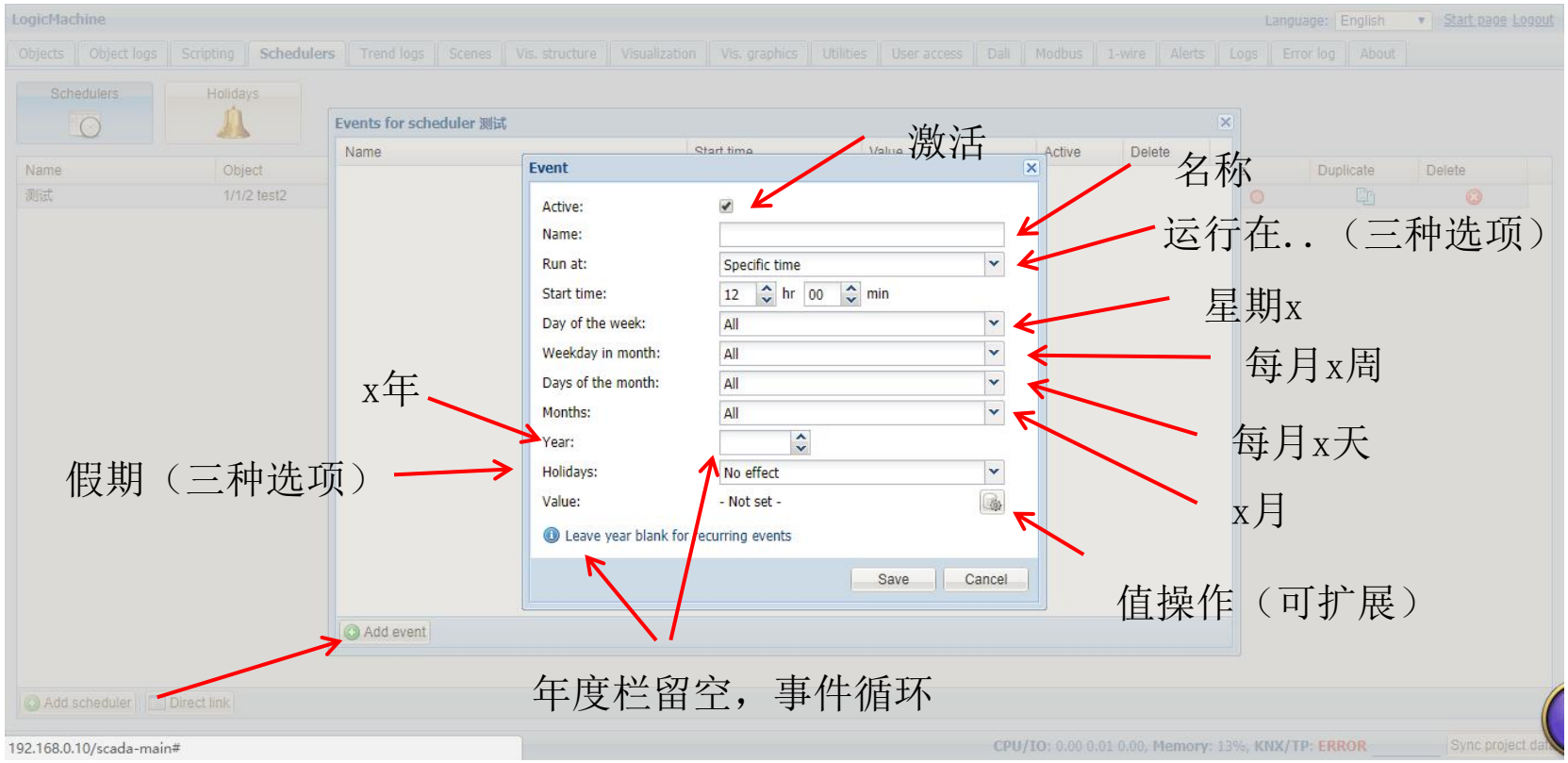
Logic Machine > Schedulers > Schedulers

Logic Machine > Schedulers > Schedulers

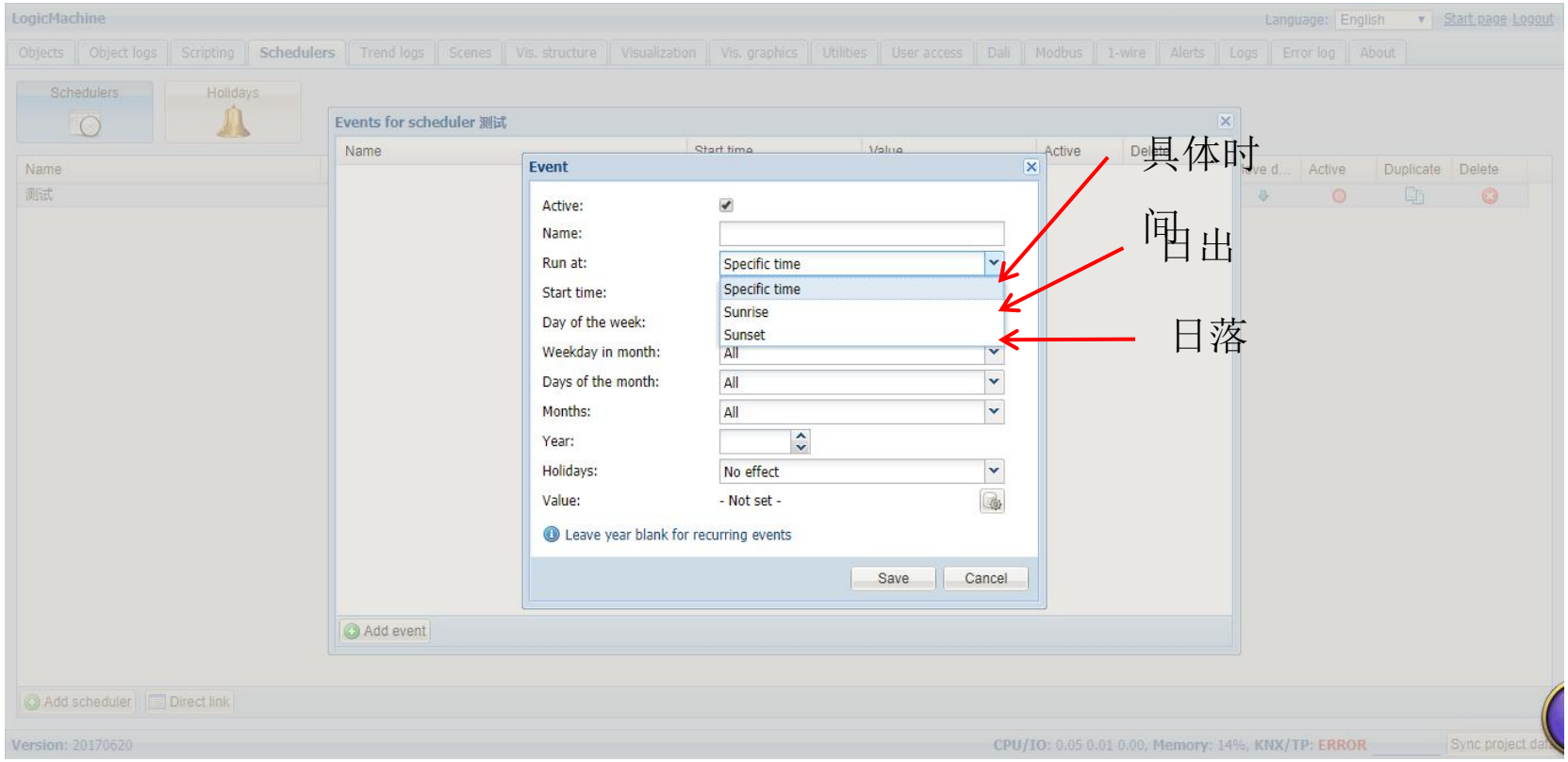


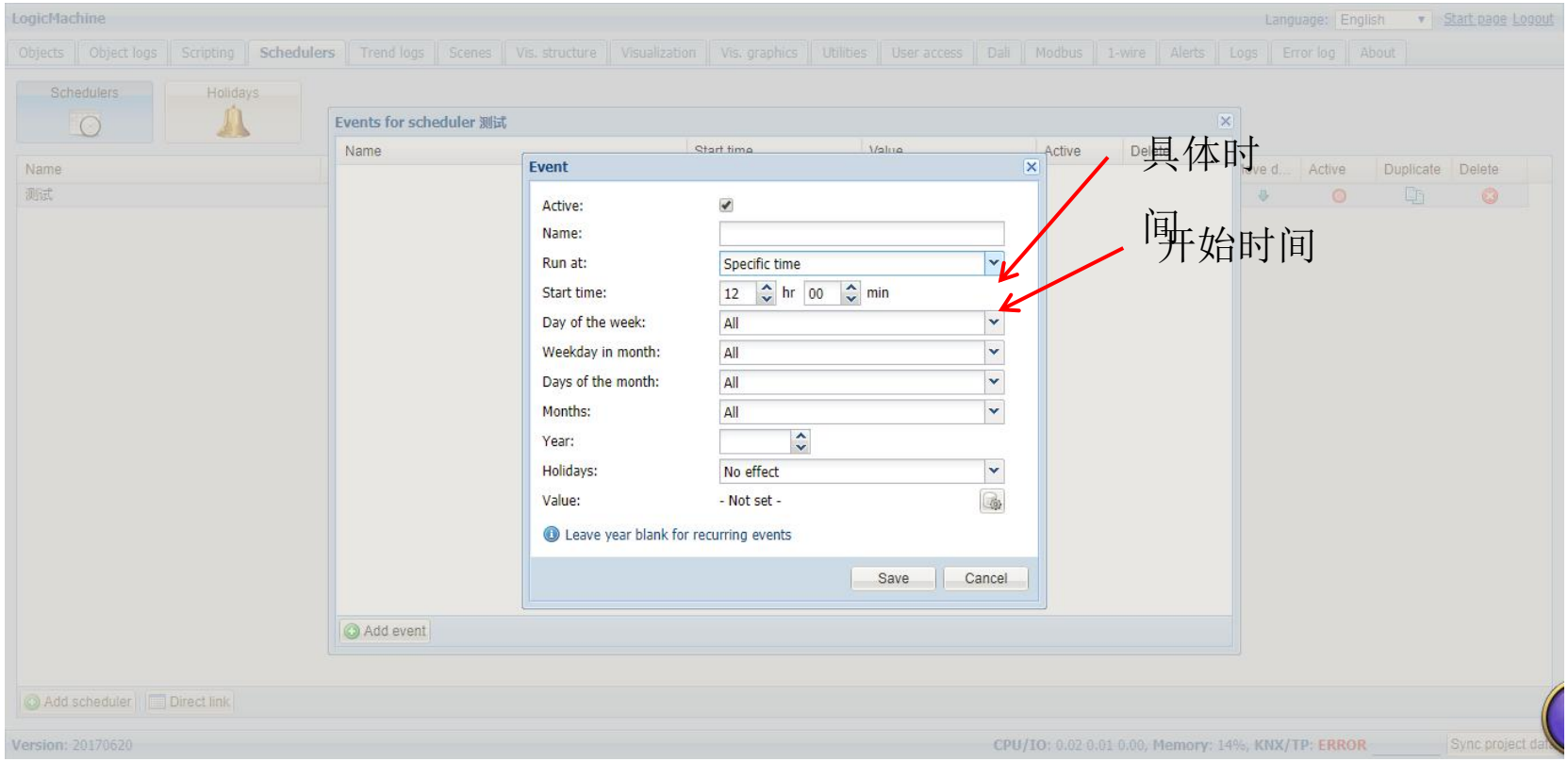
Logic Machine > Schedulers > Schedulers

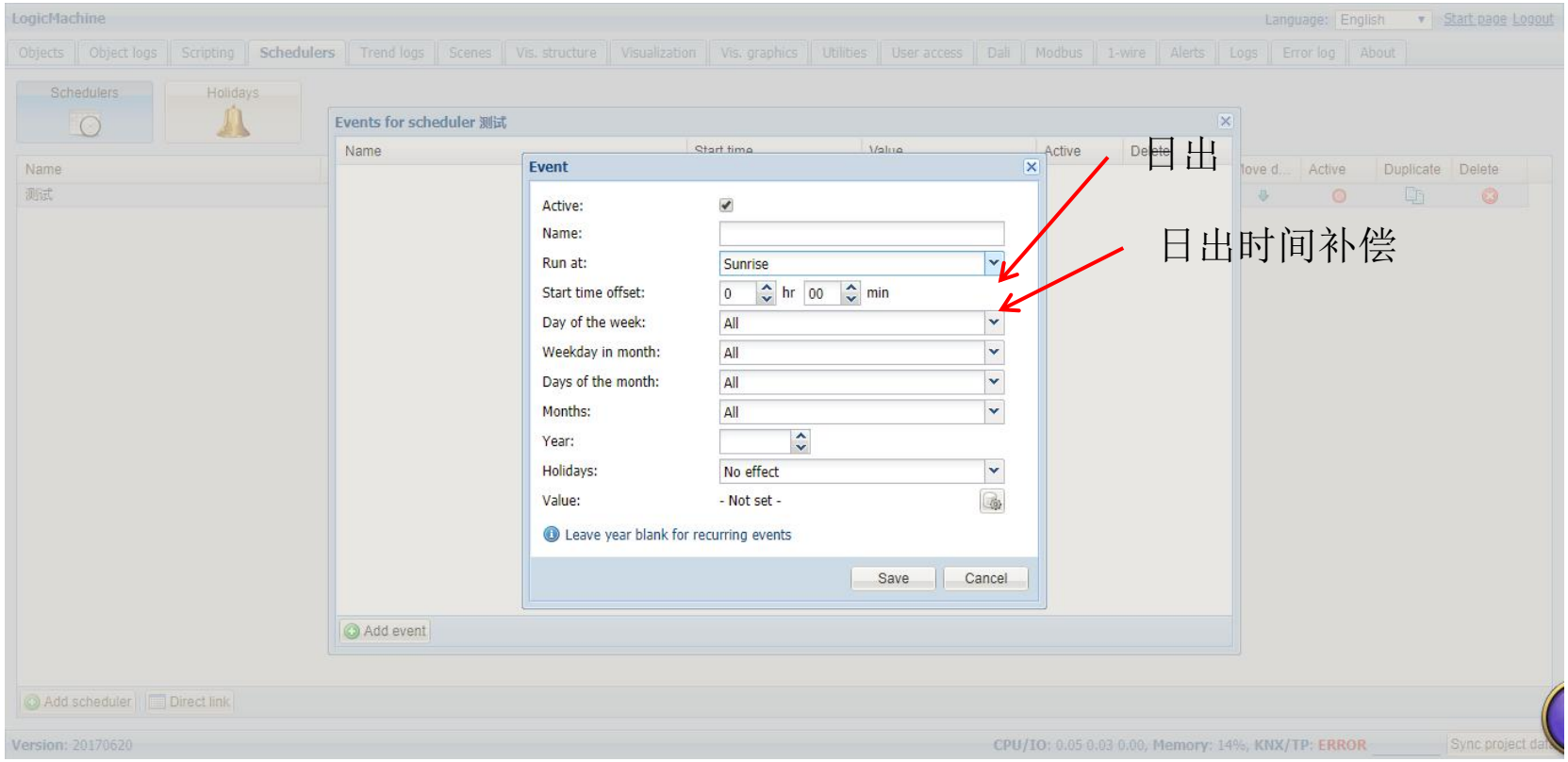



LogicMachine
Schedulers
Holidays
Events for scheduler 测试
Name
Start time
Value
Active
Delete
Duplicate
Event
Active:
Name:
Run at:
Specific time
Start time:
12
hr
00
min
Day of the week:
All
Weekday in month:
All
Days of the month:
All
Months:
All
Year:
Holidays:
No effect
Value:
- Not set -
Leave year blank for recurring events
Save
Cancel
Add event
Add scheduler
Direct link
192.168.0.10/scada-main#
激活
名称
运行在..（三种选项）
星期x
每月x周
每月x天
x月
值操作（可扩展）
x年
假期（三种选项）
年度栏留空，事件循环

Logic Machine > Schedulers > Schedulers > Events




LogicMachine
Language: English
Start page Logout
Objects
Object logs
Scripting
Schedulers
Trend logs
Scenes
Vis. structure
Visualization
Vis. graphics
Utilities
User access
Dali
Modbus
1-wire
Alerts
Logs
Error log
About
Schedulers
Holidays
Events for scheduler 测试
Name
Start time
Value
Active
Delete
Event
Active:
Name:
Run at:
Specific time
Start time:
12
hr
00
min
Day of the week:
All
Weekday in month:
All
Days of the month:
All
Months:
All
Year:
Holidays:
No effect
Value:
- Not set -
Leave year blank for recurring events
Save
Cancel
Add event
Duplicate
Delete
Add scheduler
Direct link
Version: 20170620
CPU/IO: 0.02 0.01 0.00, Memory: 14%, KNX/TP: ERROR
Sync project
具体时间
开始时间


LogicMachine
Language: English
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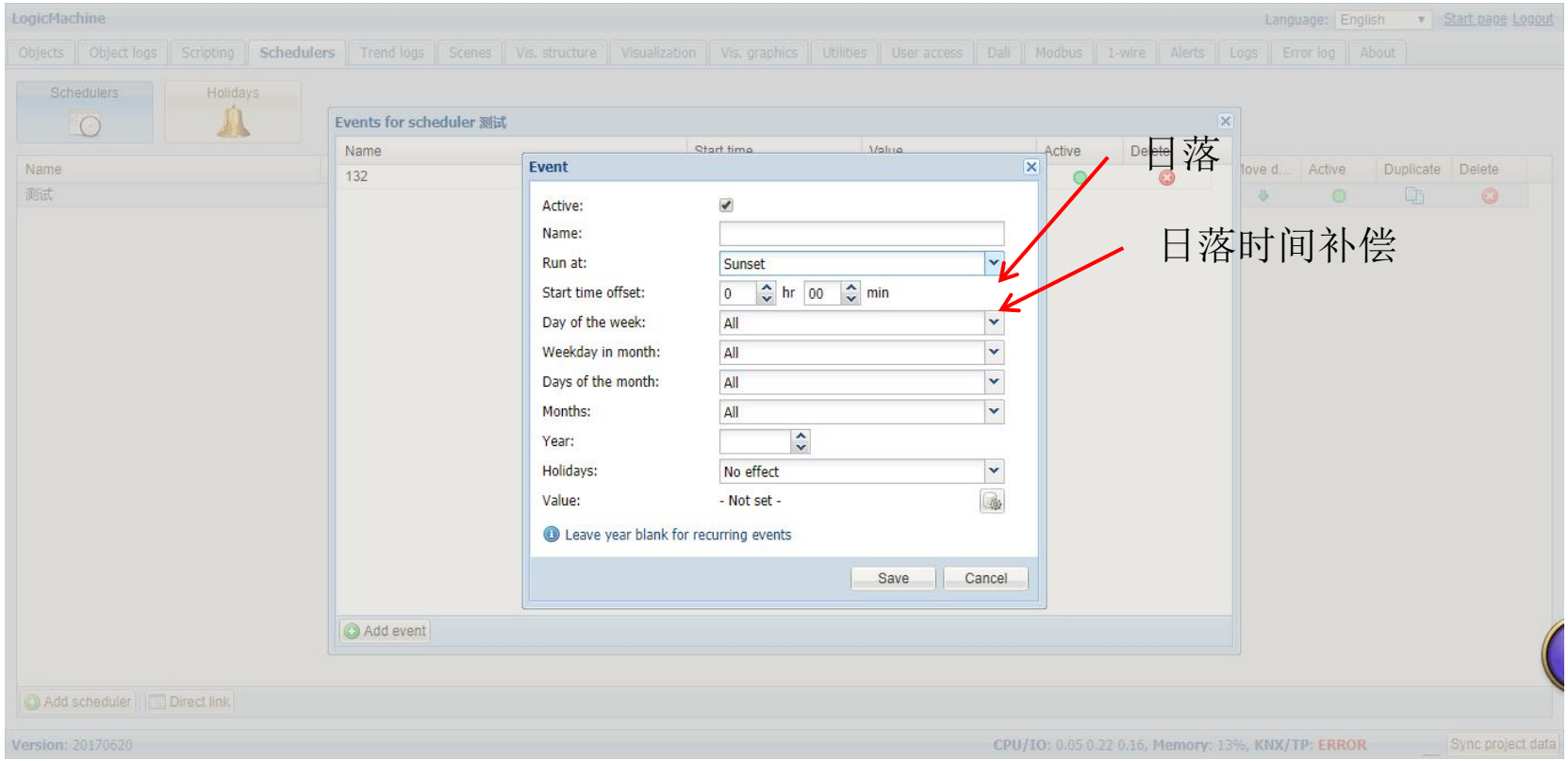
Logs
Error log
About
Schedulers
Holidays
Events for scheduler 测试
Name
Start time
Value
Active
Delete
Event
Active:
Name:
Run at:
Sunrise
Start time offset:
0
hr
00
min
Day of the week:
All
Weekday in month:
All
Days of the month:
All
Months:
All
Year:
Holidays:
No effect
Value:
- Not set -
Leave year blank for recurring events
Save
Cancel
Add event
Duplicate
Add scheduler
Direct link
Version: 20170620
CPU/IO: 0.05 0.03 0.00, Memory: 14%, KNX/TP: ERROR
日出
日出时间补偿


LogicMachine
Language: English
Start page Logout
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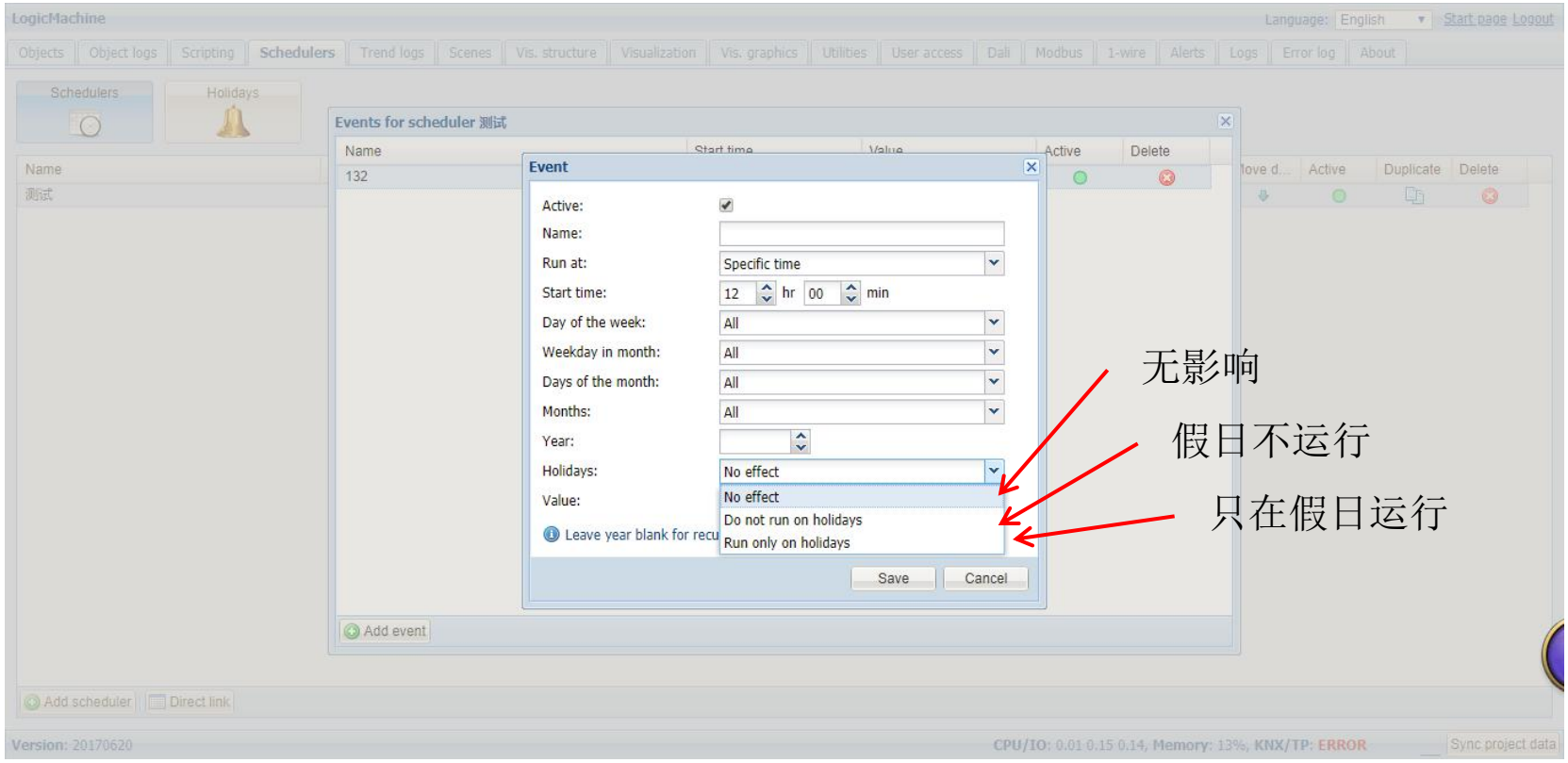
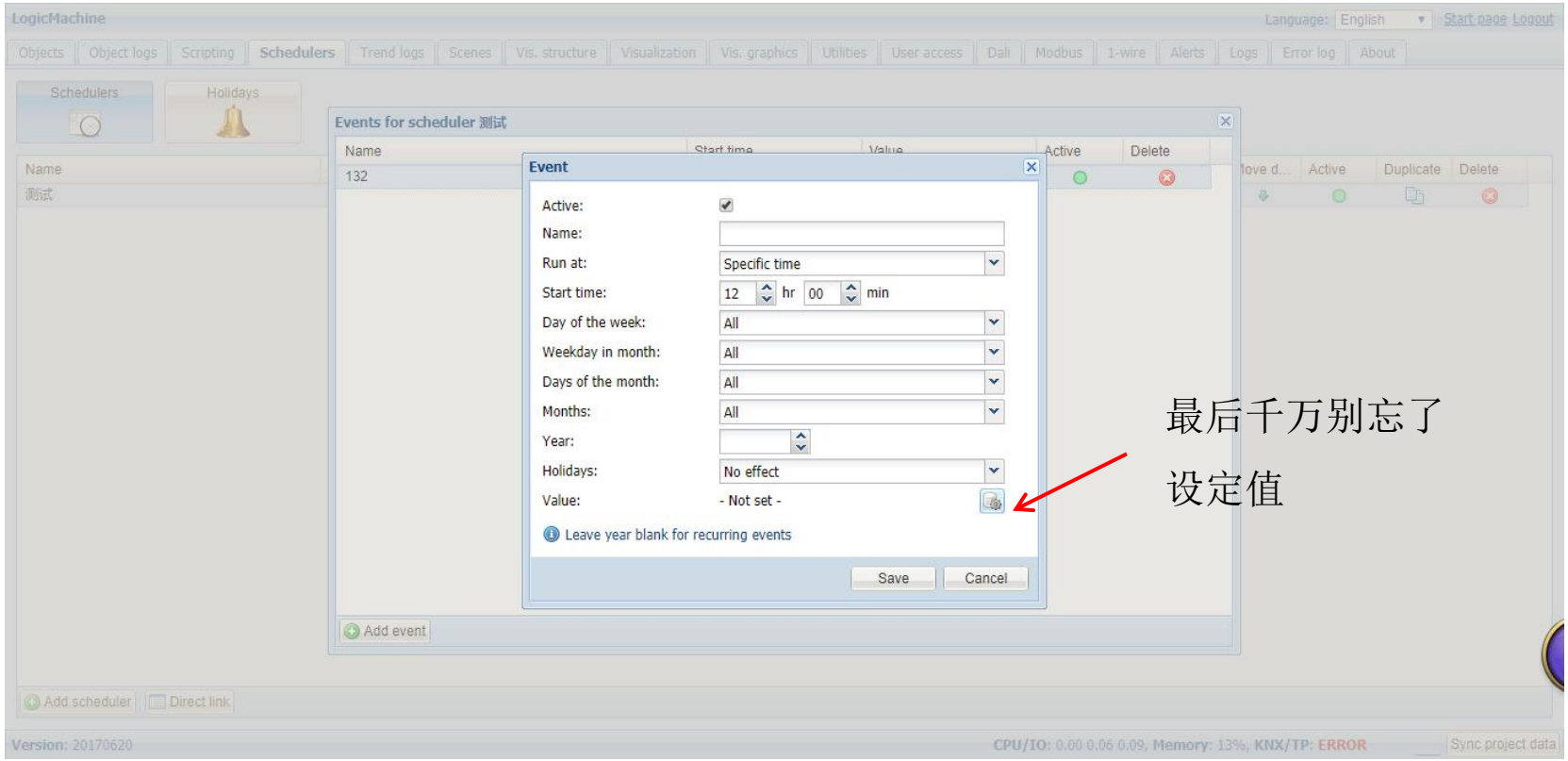
Object logs
Scripting
Schedulers
Trend logs
Scenes
Vis. structure
Visualization
Vis. graphics
Utilities
User access
Dali
Modbus
1-wire
Alerts
Logs
Error log
About
Schedulers
Holidays
Events for scheduler 测试
Name
Start time
Value
Active
Delete
132
Event
Active:
Name:
Run at:
Sunset
Start time offset:
0
hr
00
min
Day of the week:
All
Weekday in month:
All
Days of the month:
All
Months:
All
Year:
Holidays:
No effect
Value:
- Not set -
Leave year blank for recurring events
Save
Cancel
Add event
Duplicate
Delete
Add scheduler
Direct link
Version: 20170620
CPU/IO: 0.05 0.22 0.16, Memory: 13%, KNX/TP: ERROR
Sync project data
日落
日落时间补偿


LogicMachine
Language: English
Start page Logout
Objects
Object logs
Scripting
Schedulers
Trend logs
Scenes
Vis. structure
Visualization
Vis. graphics
Utilities
User access
Dali
Modbus
1-wire
Alerts
Logs
Error log
About
Schedulers
Holidays
Events for scheduler 测试
Name
Start time
Value
Active
Delete
132
Event
Active:
Name:
Run at:
Specific time
Start time:
12
hr
00
min
Day of the week:
All
Weekday in month:
All
Days of the month:
All
Months:
All
Year:
Holidays:
No effect
Value:
No effect
Do not run on holidays
Run only on holidays
Leave year blank for recu
Save
Cancel
Add event
Add scheduler
Direct link
Version: 20170620
CPU/IO: 0.01 0.15 0.14, Memory: 13%, KNX/TP: ERROR
Sync project data
无影响
假日不运行
只在假日运行


LogicMachine
Language: English
Start page Logout
Objects
Object logs
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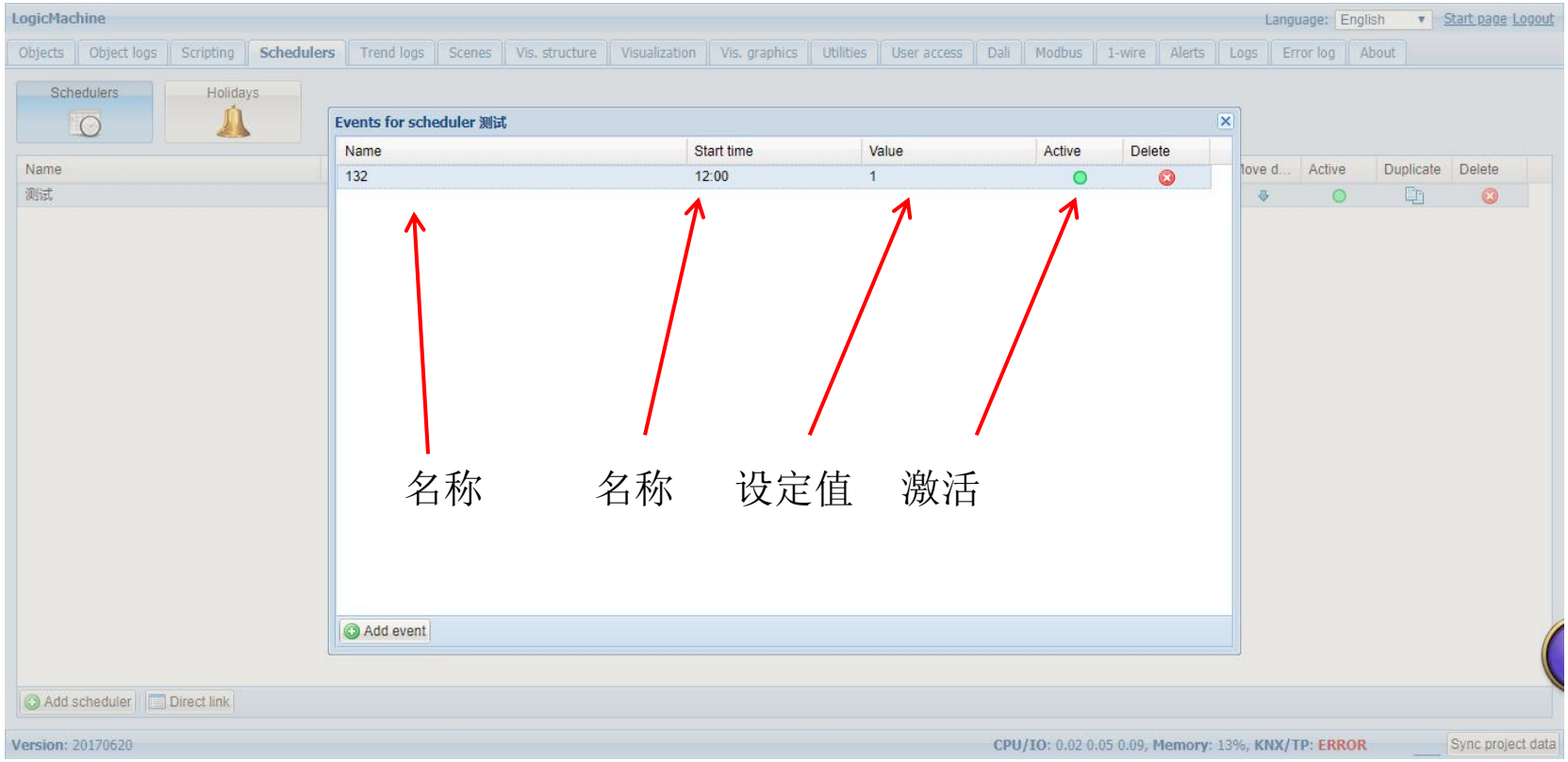
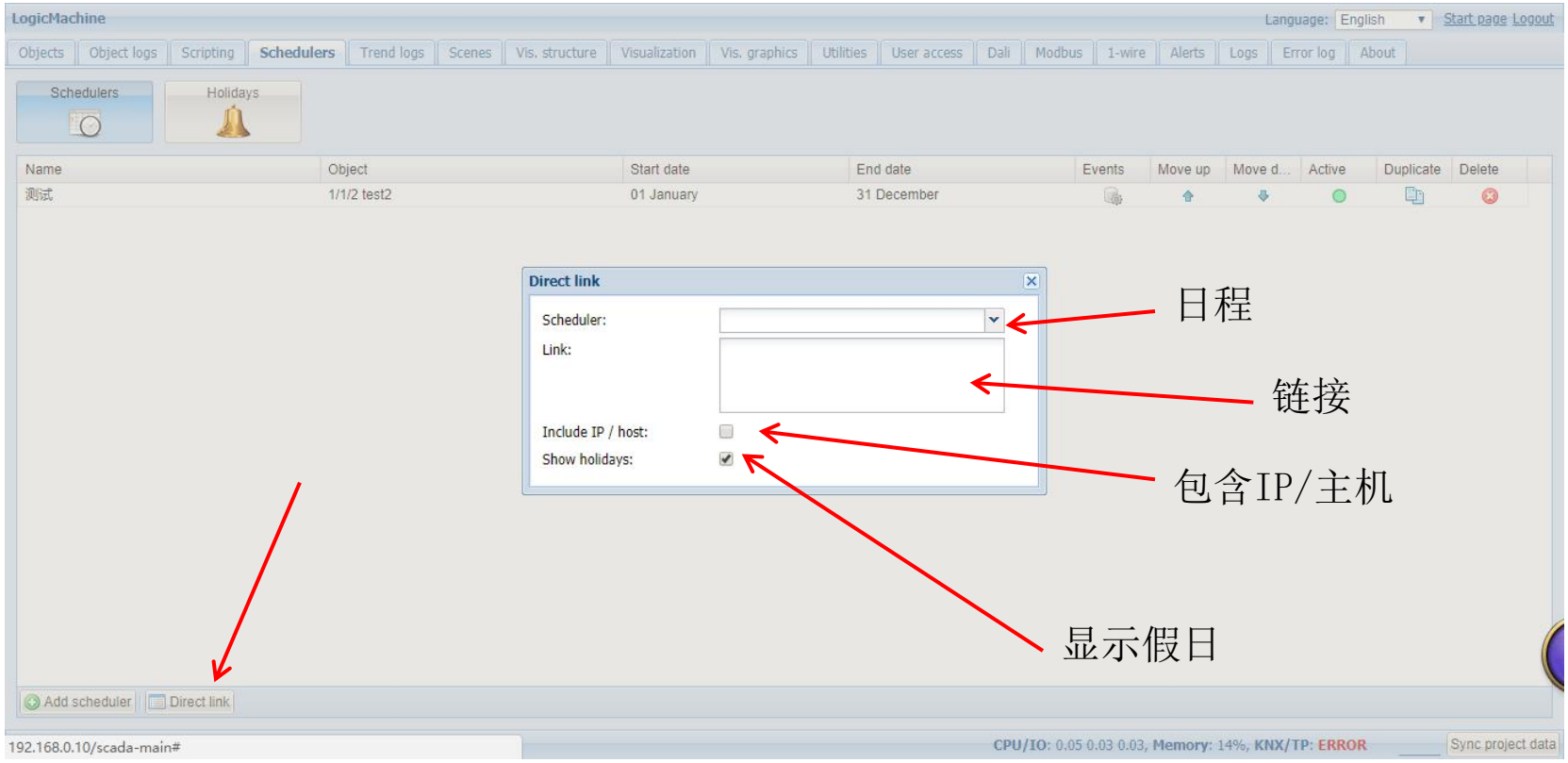
Schedulers
Trend logs
Scenes
Vis. structure
Visualization
Vis. graphics
Utilities
User access
Dali
Modbus
1-wire
Alerts
Logs
Error log
About
Schedulers
Holidays
Events for scheduler 测试
Name
Start time
Value
Active
Delete
132
Event
Active:
Name:
Run at:
Specific time
Start time:
12
hr
00
min
Day of the week:
All
Weekday in month:
All
Days of the month:
All
Months:
All
Year:
Holidays:
No effect
Value:
- Not set -
Leave year blank for recurring events
Save
Cancel
Add event
Add scheduler
Direct link
Version: 20170620
CPU/IO: 0.00 0.06 0.09, Memory: 13%, KNX/TP: ERROR
Sync project data

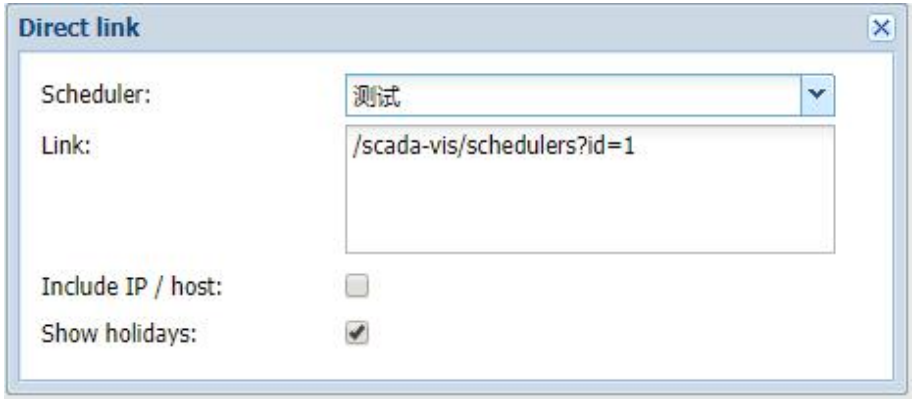
最后千万别忘了

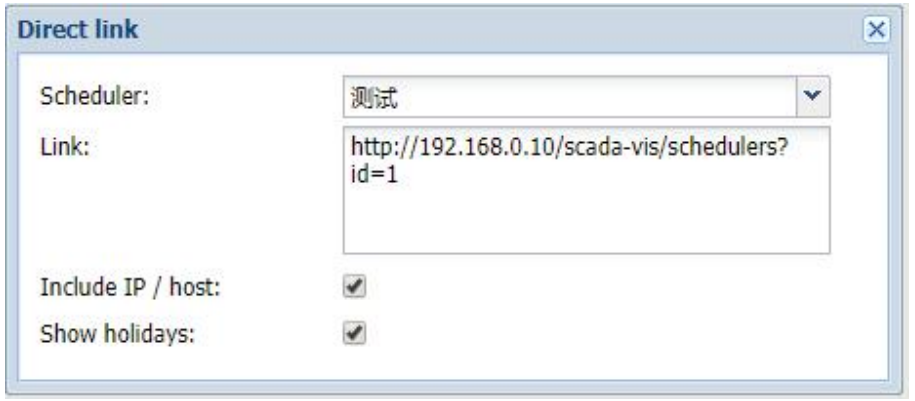
设定值

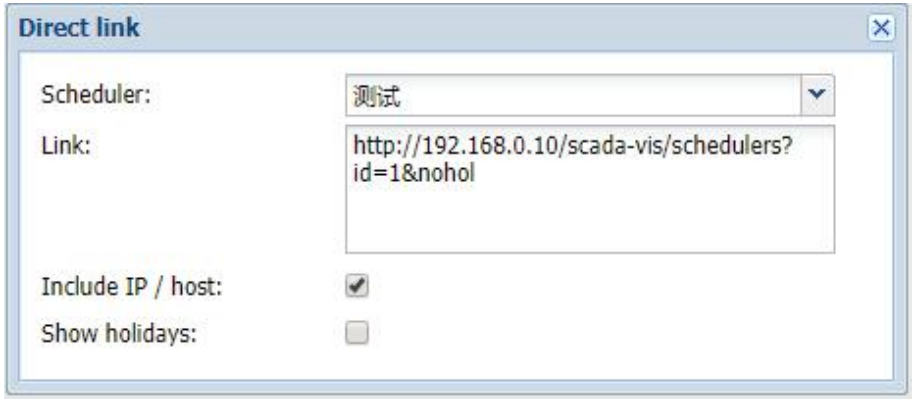

LogicMachine
Language: English
Start page Logout
Objects
Object logs
Scripting
Schedulers
Trend logs
Scenes
Vis. structure
Visualization
Vis. graphics
Utilities
User access
Dali
Modbus
1-wire
Alerts
Logs
Error log
About
Schedulers
Holidays
Events for scheduler 测试
Name
Start time
Value
Active
Delete
132
12:00
1
Add event
名称
名称
设定值
激活
Name
测试
Active
Duplicate
Delete
Add scheduler
Direct link
Version: 20170620
CPU/IO: 0.02 0.05 0.09, Memory: 13%, KNX/TP: ERROR
Sync project data

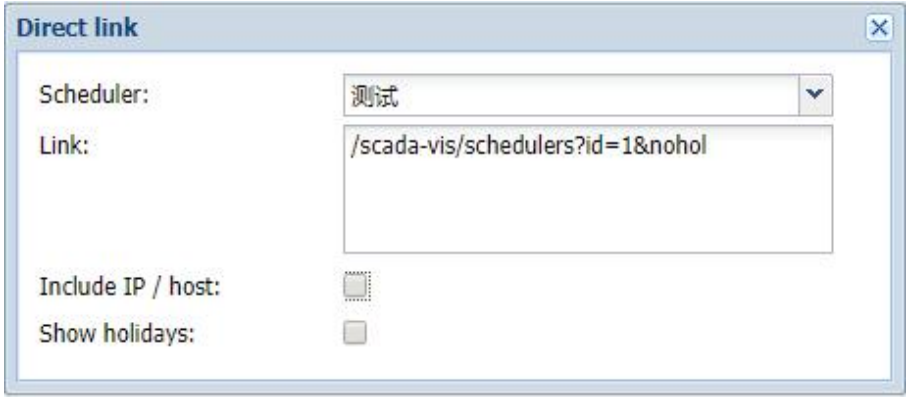
Logic Machine > Schedulers > Schedulers



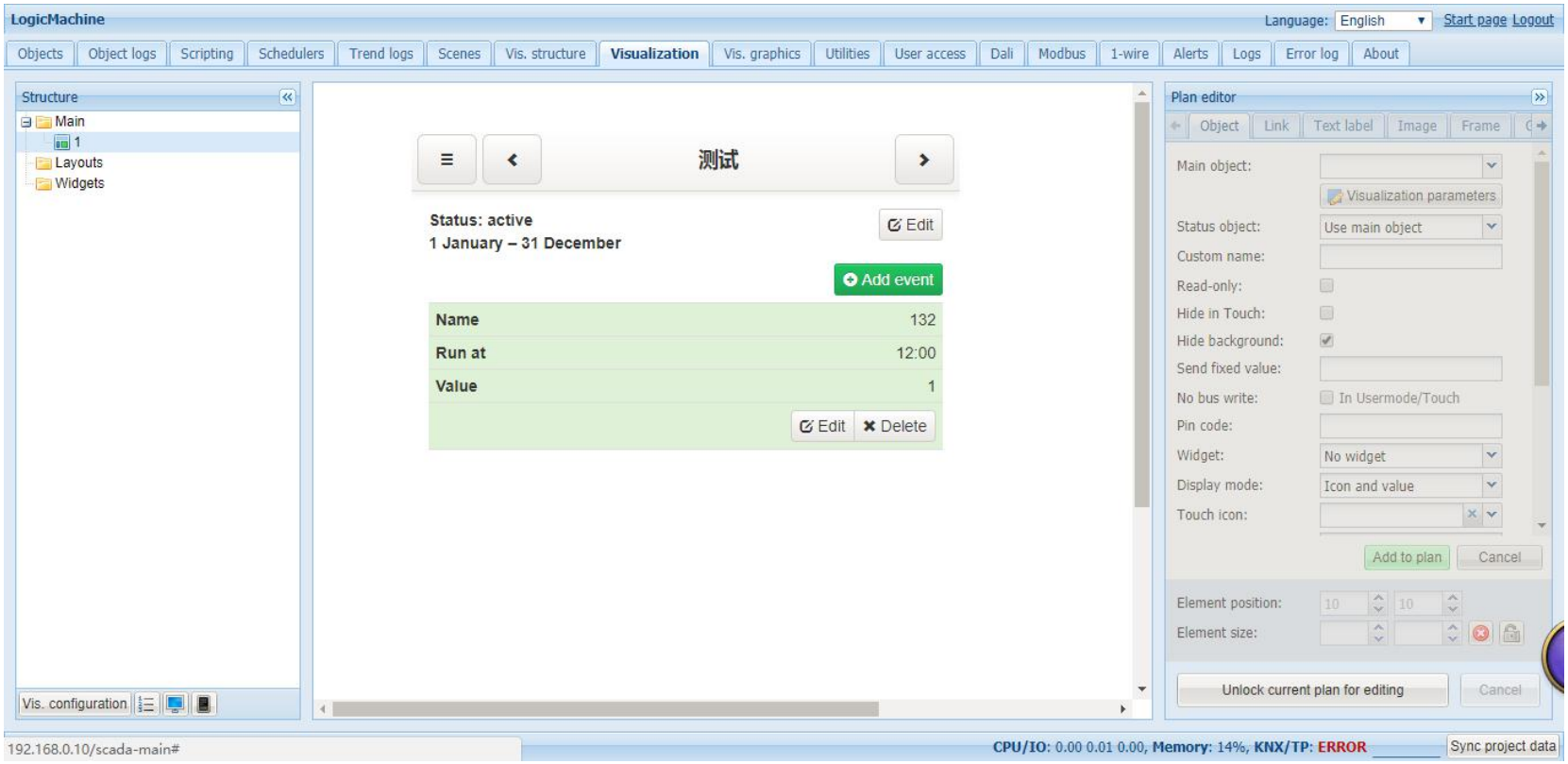

Direct link
Scheduler:
测试
Link:
/scada-vis/schedulers?id=1
Include IP / host:
Show holidays:


Direct link
Scheduler:
测试
Link:
http://192.168.0.10/scada-vis/schedulers?id=1
Include IP / host:
Show holidays:

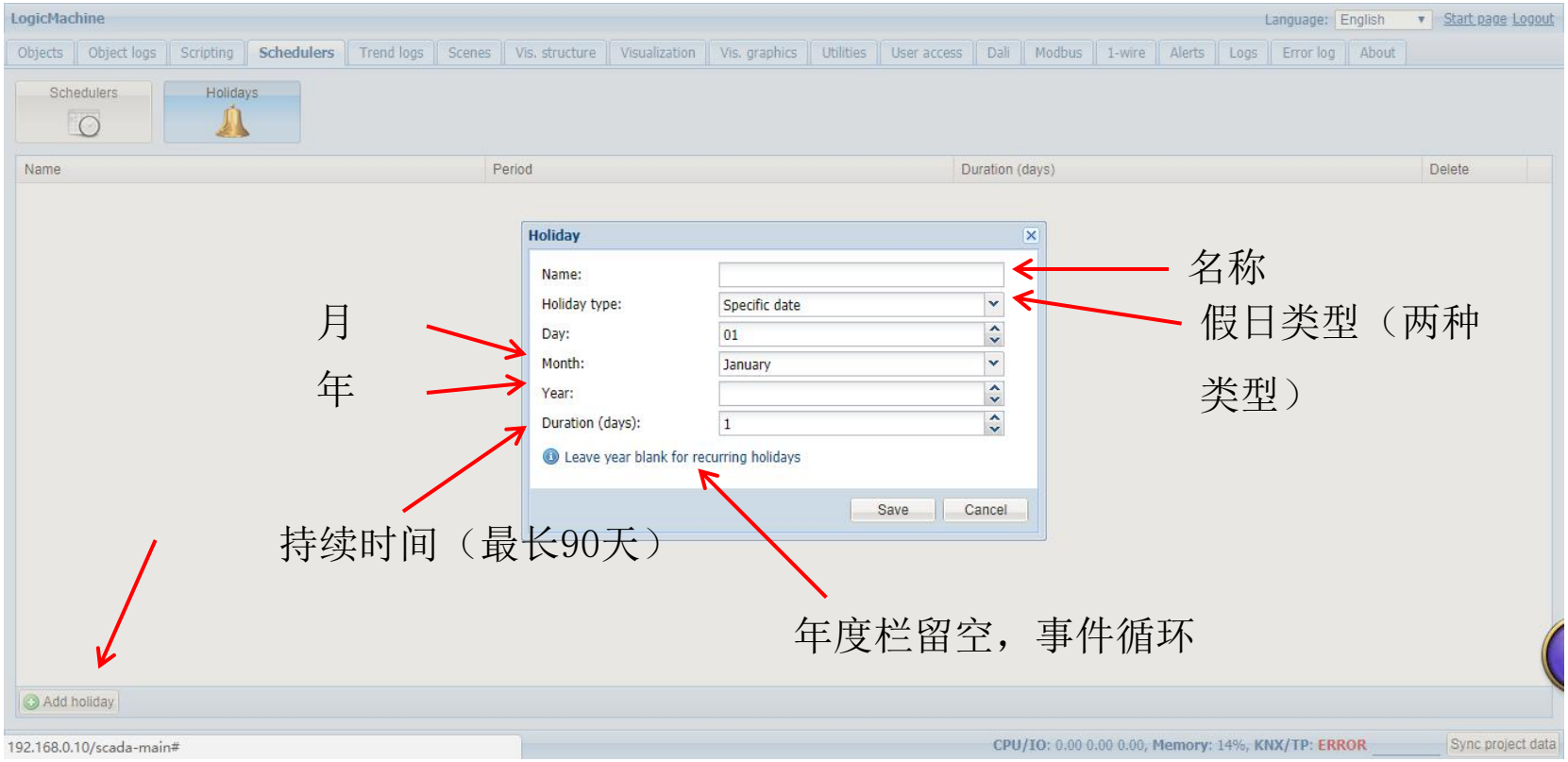

Direct link
Scheduler:
测试
Link:
http://192.168.0.10/scada-vis/schedulers?id=1&nohol
Include IP / host:
Show holidays:


Direct link
Scheduler:
测试
Link:
/scada-vis/schedulers?id=1&nohol
Include IP / host:
Show holidays:

Logic Machine > Schedulers > Schedulers

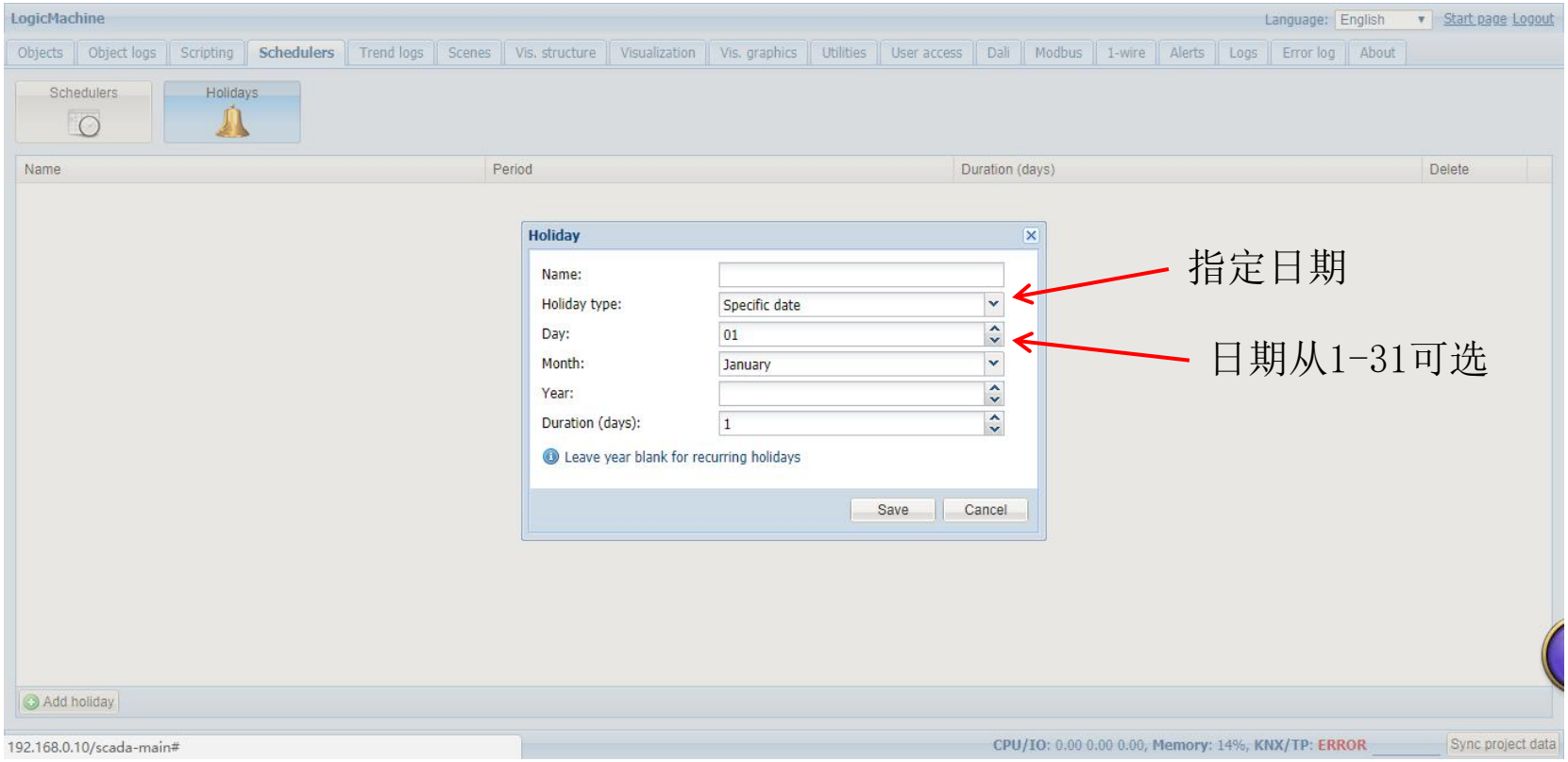


Logic Machine > Schedulers > Holidays



Logic Machine > Schedulers > Holidays

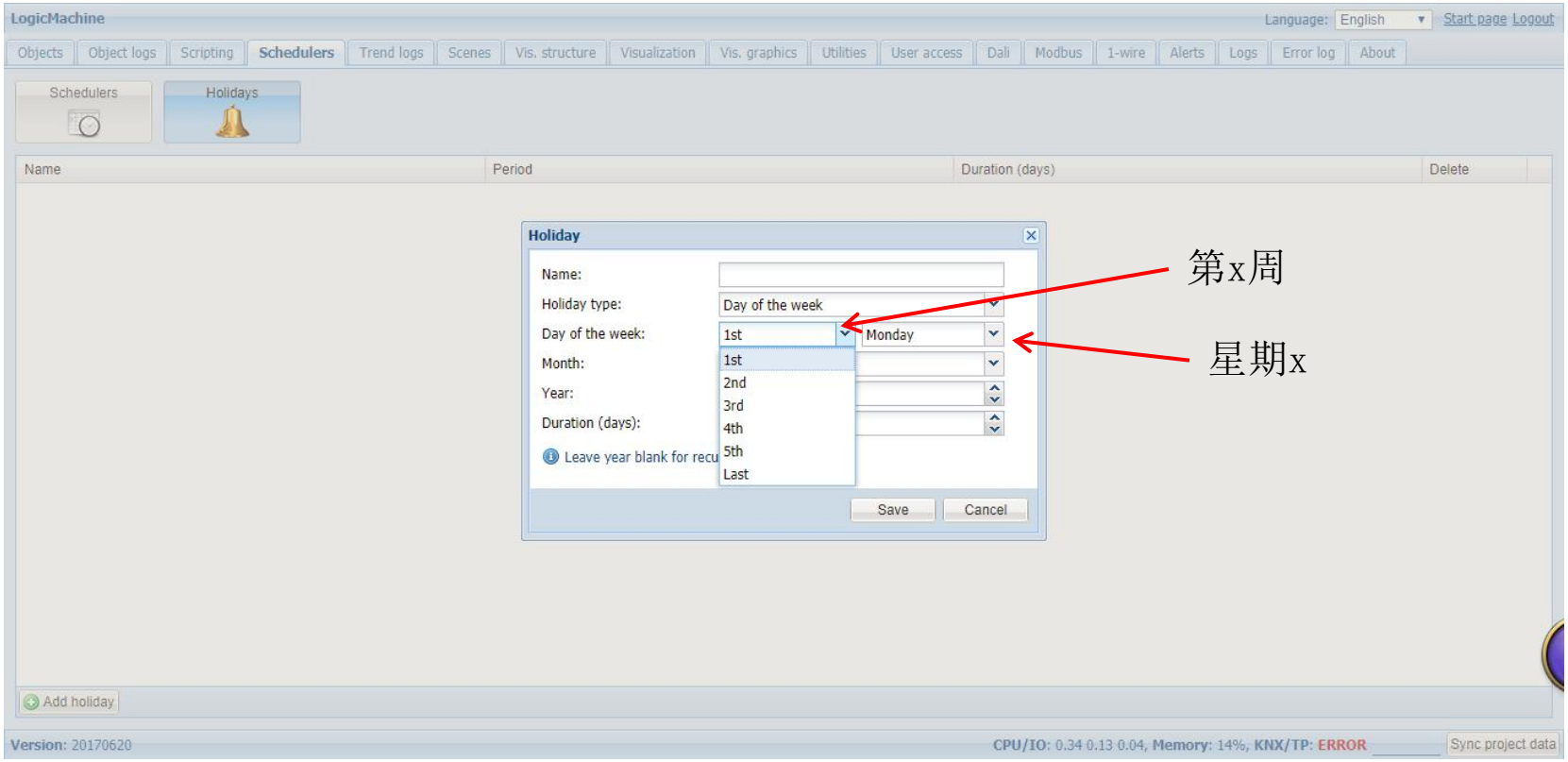
embedded automation



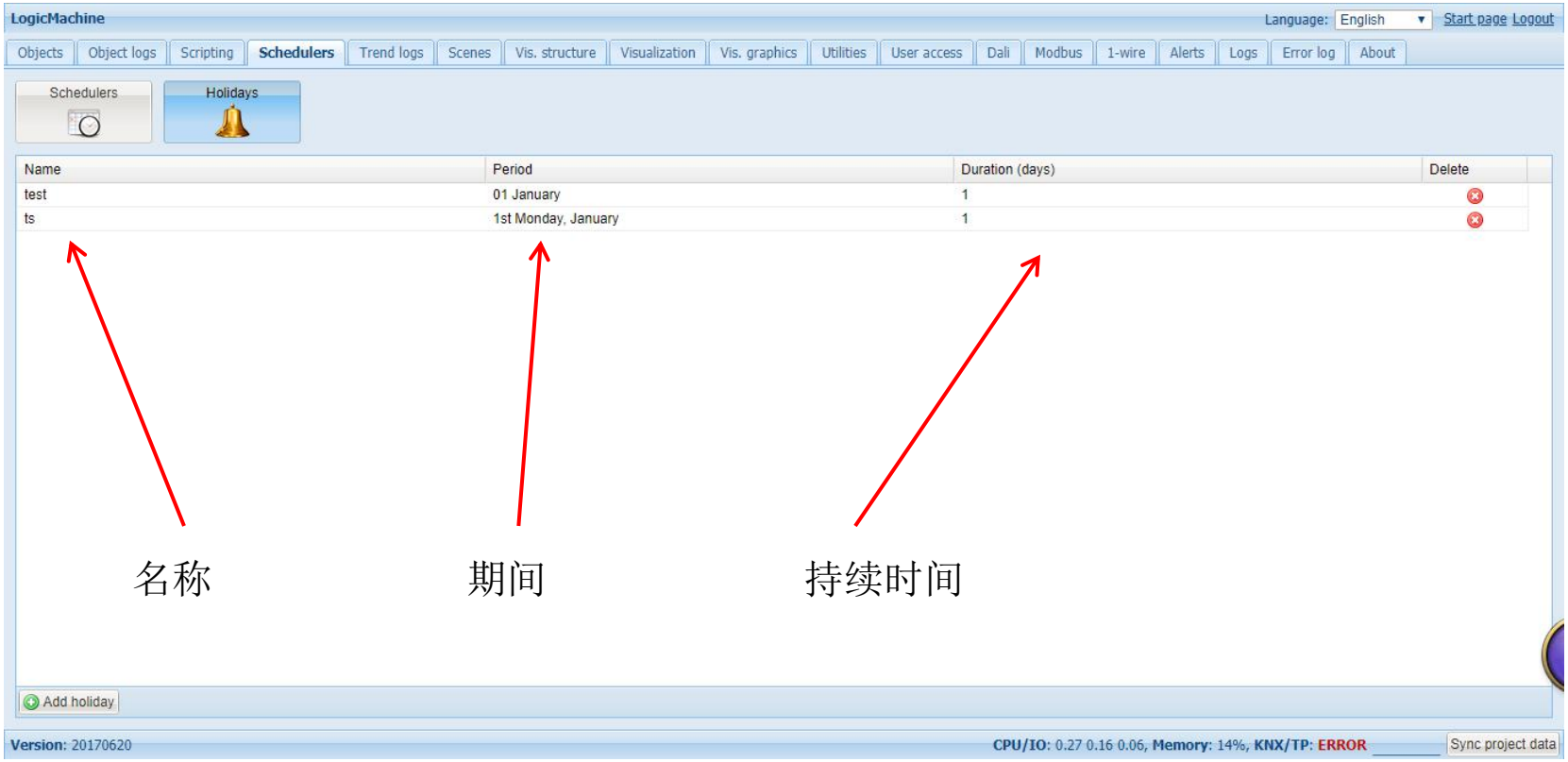
指定日期

日期从1-31可选

Logic Machine > Schedulers > Holidays



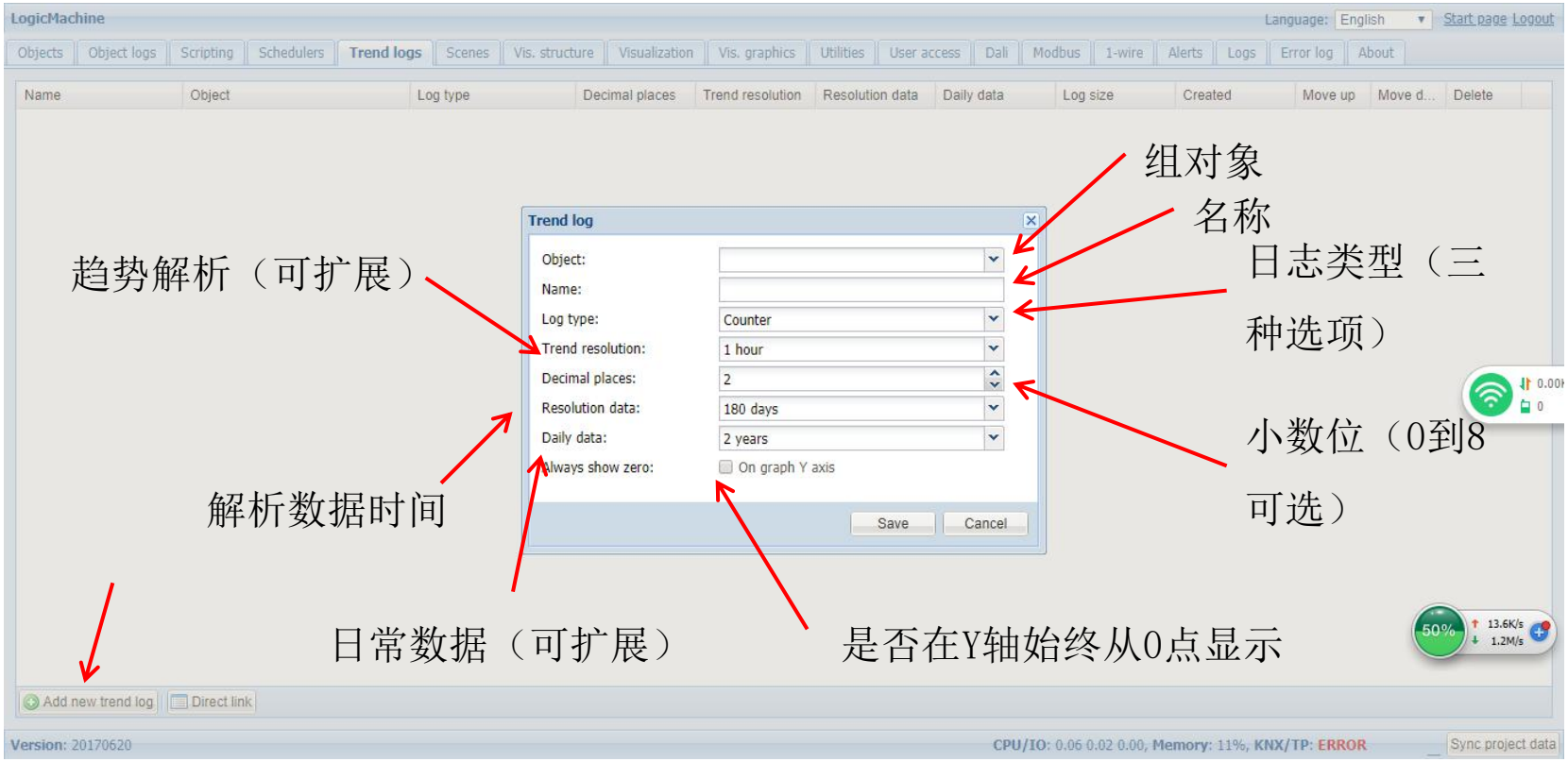
Logic Machine > Schedulers > Holidays

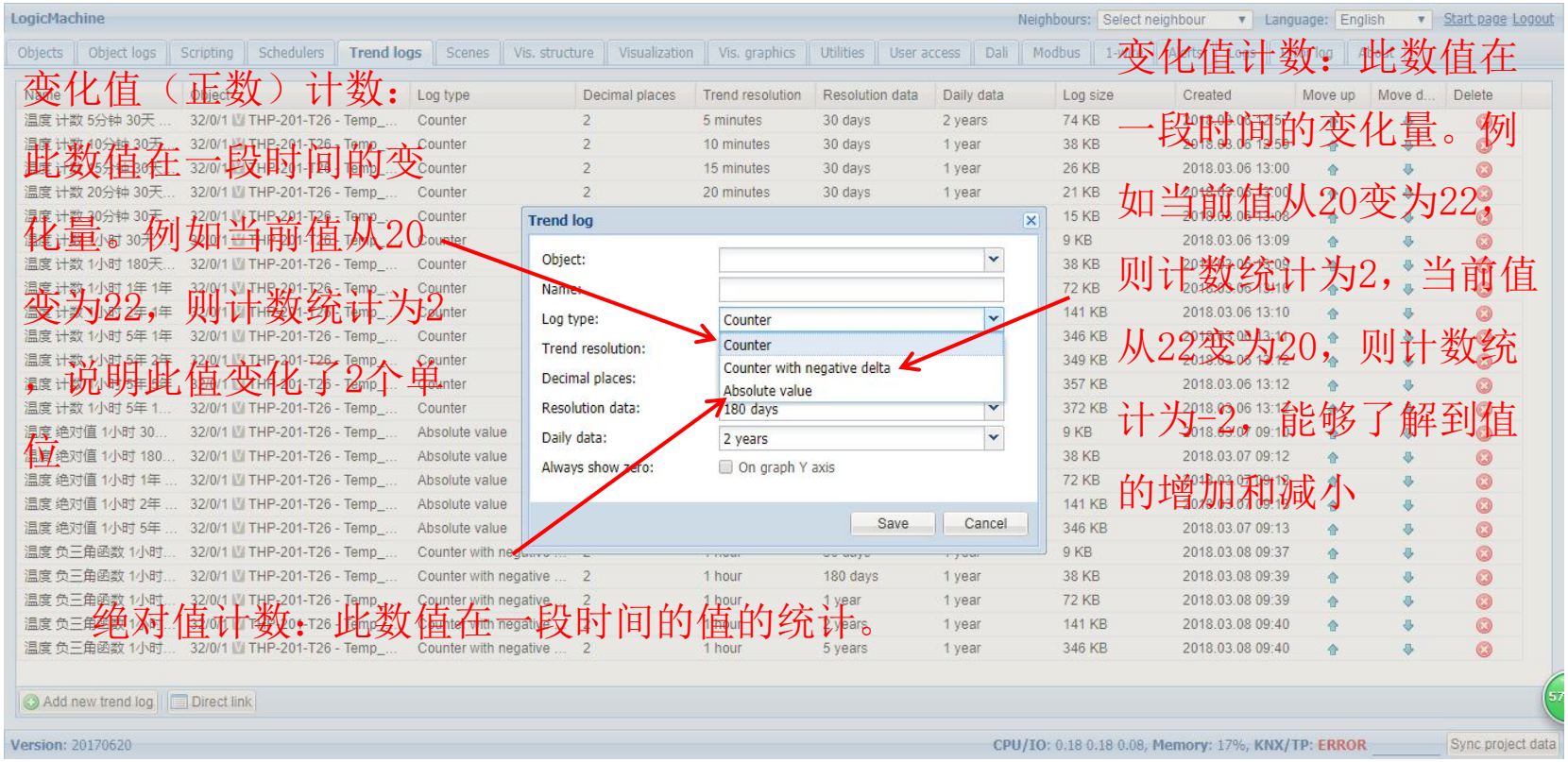


embedded automation

Trend Logs —— 趋势图表

Logic Machine > Trend Logs



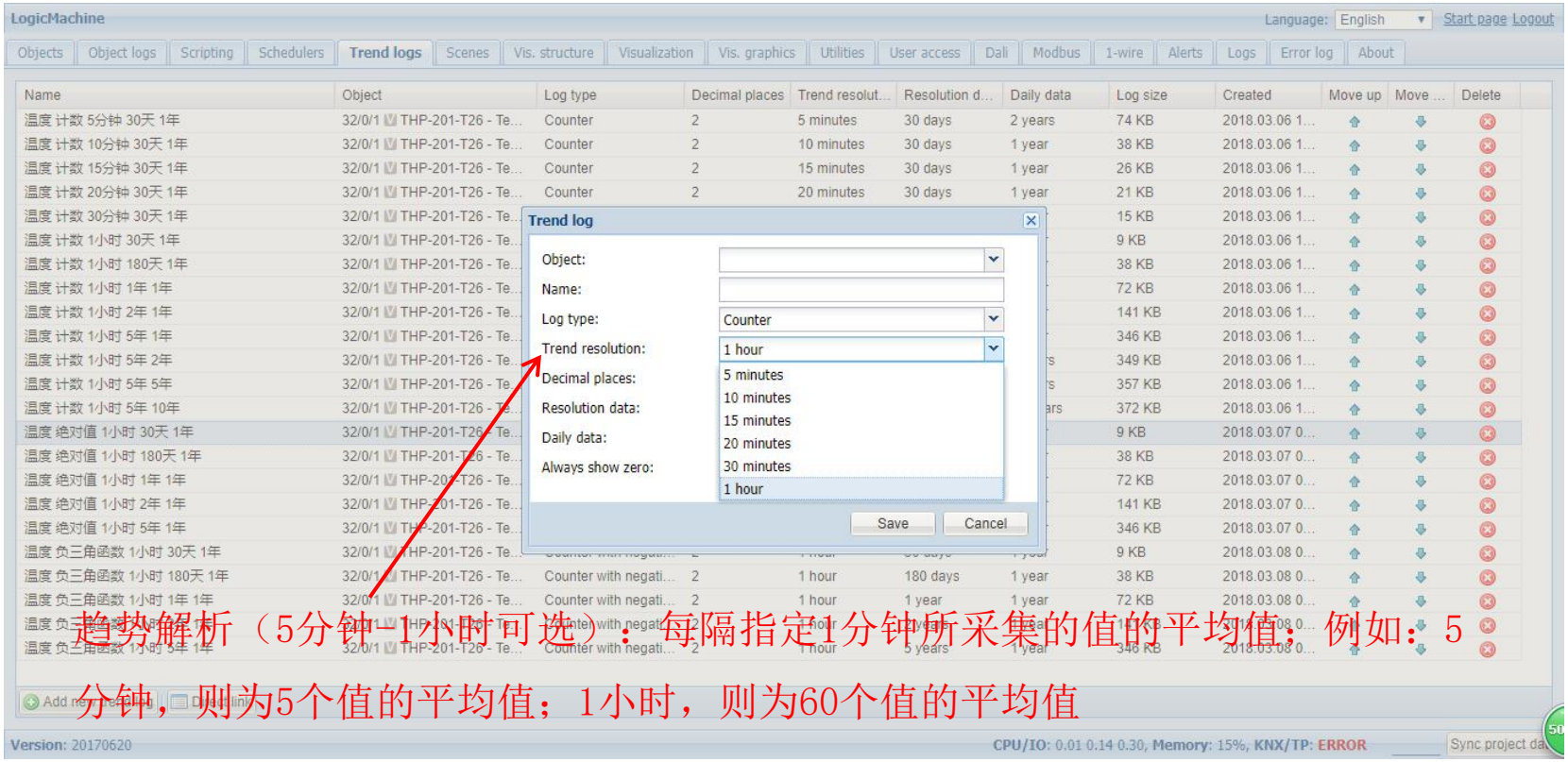


变化值（正数）计数：此数值在一段时间的变化量。例如当前值从20变为22，则计数统计为2，说明此值变化了2个单位。

变化值计数：此数值在一段时间的变化量。例如当前值从20变为22，则计数统计为2，当前值从22变为20，则计数统计为-2，能够了解到值的增加和减小

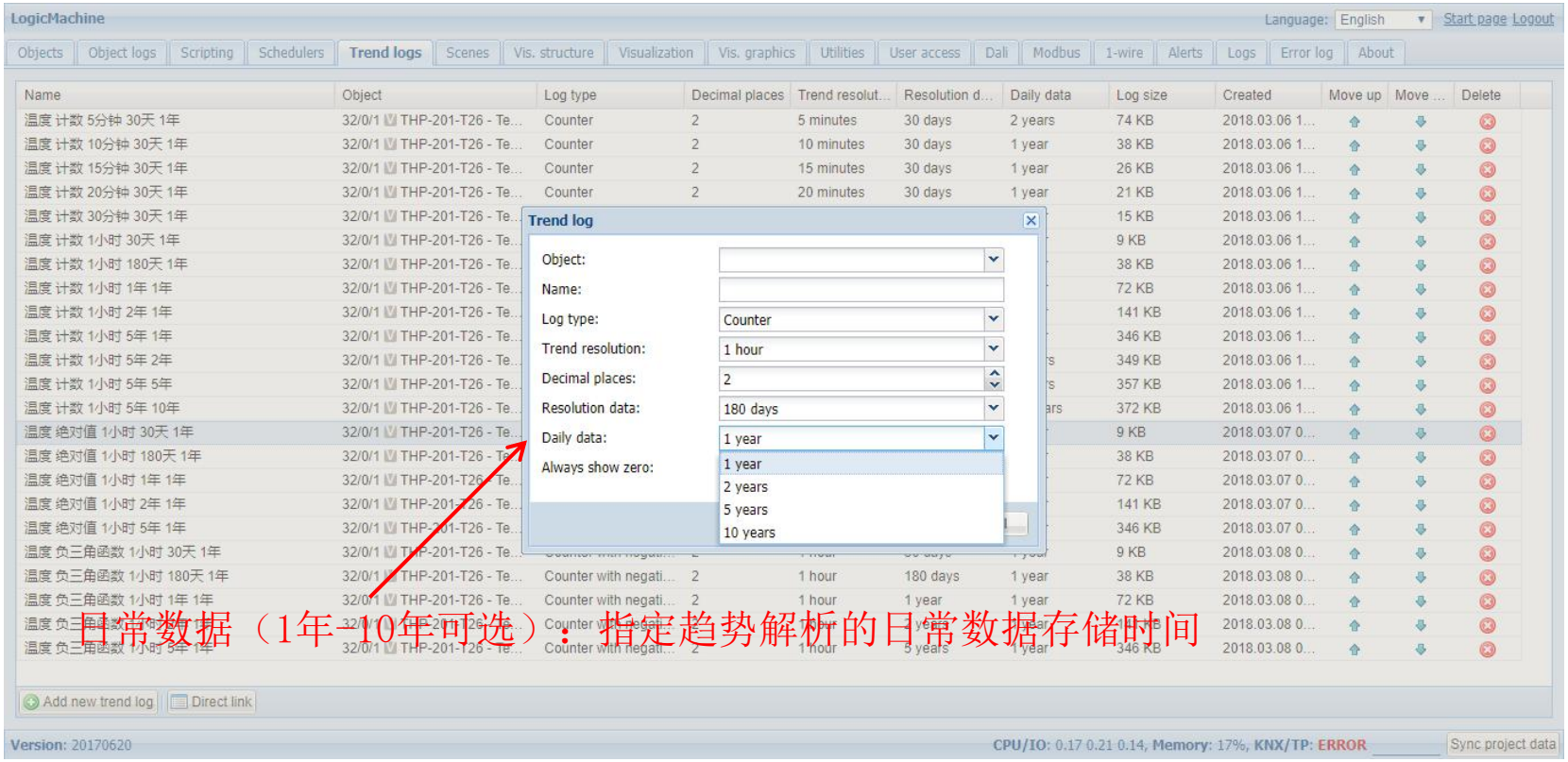
绝对值计数：此数值在一段时间的值的统计。

Logic Machine > Trend Logs



趋势解析（5分钟-1小时可选）：每隔指定1分钟所采集的值的平均值；例如：5分钟，则为5个值的平均值；1小时，则为60个值的平均值

Logic Machine > Trend Logs



日常数据（1年-10年可选）：指定趋势解析的日常数据存储时间

Logic Machine > Trend Logs

显示整点数据

趋势解析

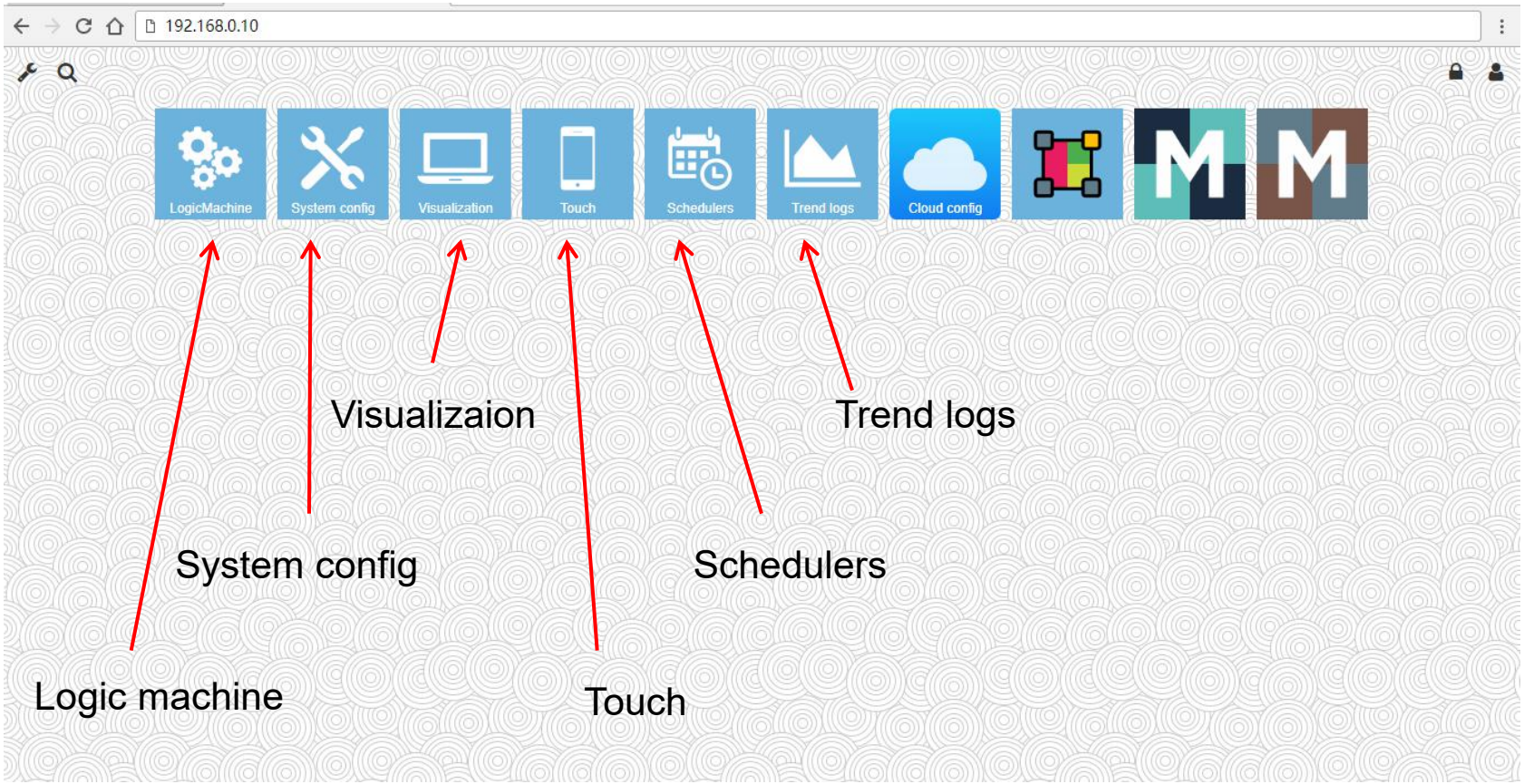
日常数据

Logic Machine > Trend Logs

Name	Object	Log type	Decimal places	Trend resolution	Resolution data	Daily data	Log size	Created	Move up	Move d...	Delete
计数5分钟	1/1/2 test2	Counter	2	5 minutes	30 days	1 year	71 KB	2018.03.02 10:26			
计数10分钟	1/1/2 test2	Counter	2	10 minutes	30 days	1 year	38 KB	2018.03.03 15:24			
计数15分钟	1/1/2 test2	Counter	2	15 minutes	30 days	1 year	26 KB	2018.03.03 15:24			
计数20分钟	1/1/2 test2	Counter	2	20 minutes	30 days	1 year	21 KB	2018.03.03 15:25			
计数30分钟	1/1/2 test2	Counter	2	30 minutes	30 days	1 year	15 KB	2018.03.03 15:25			
计数1小时	1/1/2 test2	Counter	2	1 hour	30 days	1 year	9 KB	2018.03.03 15:20			
负三角函数	1/1/2 test2	Counter with negative ...	2	5 minutes	30 days	1 year	71 KB	2018.03.02 10:27			
绝对值	1/1/2 test2	Absolute value	2	5 minutes	30 days	1 year	71 KB	2018.03.02 10:28			

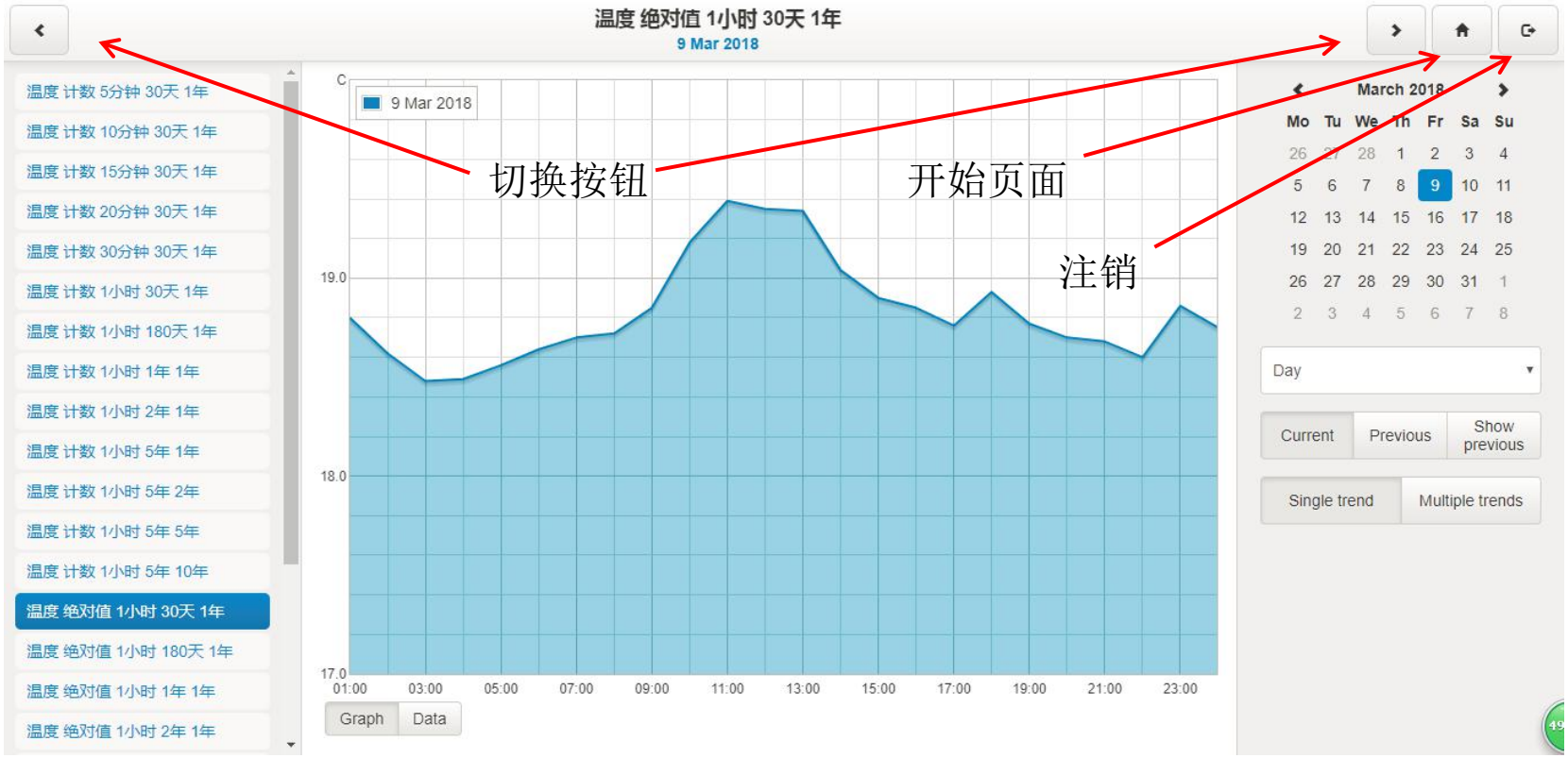
注意：每个趋势数据点的读取将占用8byte的闪存，例如每10分钟读一次数据，每年将占用大于0.4M的闪存

Trend Logs


192.168.0.10
LogicMachine
System config
Visualization
Touch
Schedulers
Trend logs
Cloud config
Visualizaion
Trend logs
System config
Schedulers
Logic machine
Touch

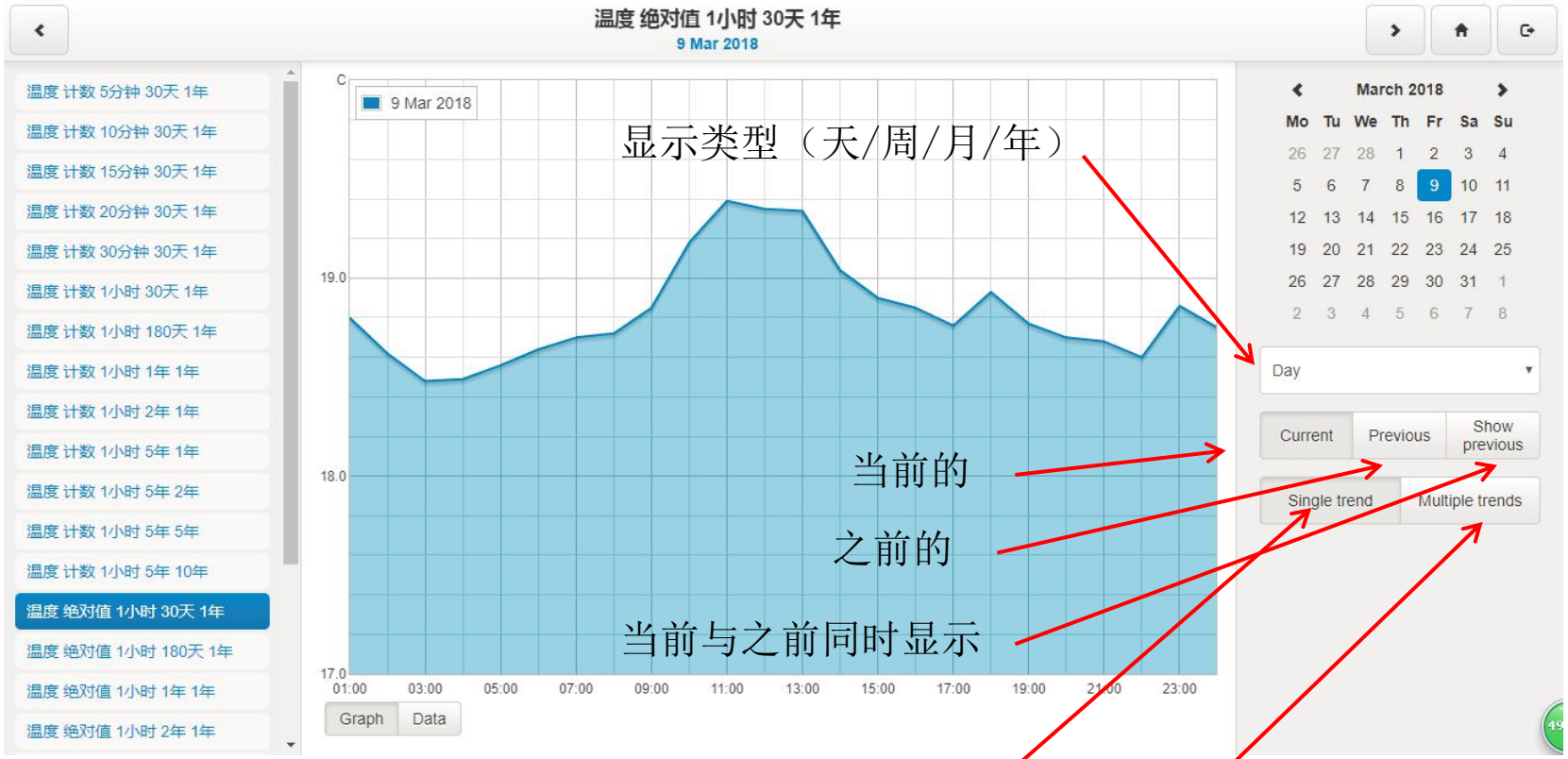
Trend Logs

embedded automation

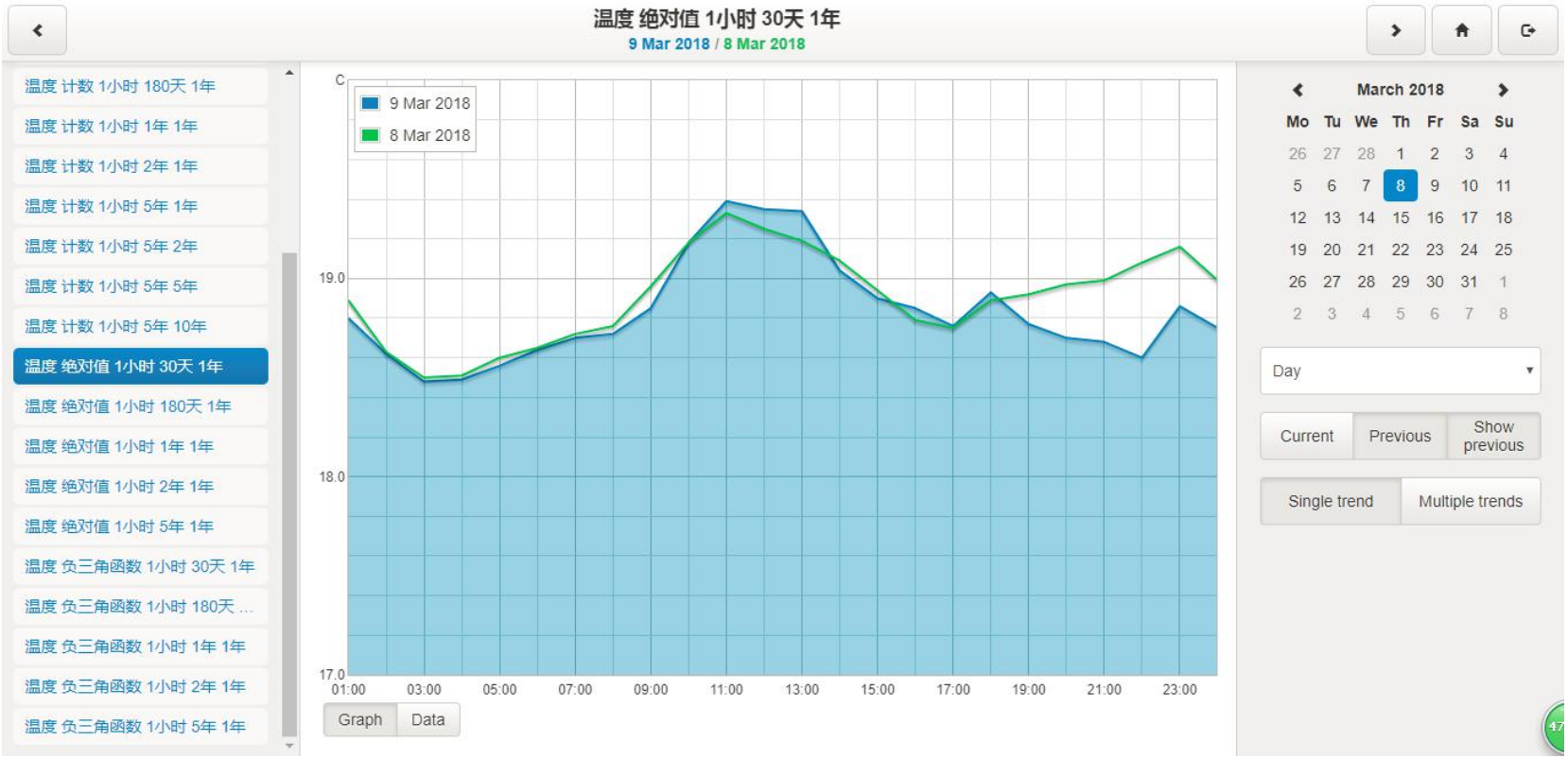


Trend Logs

embedded automation



Trend Logs

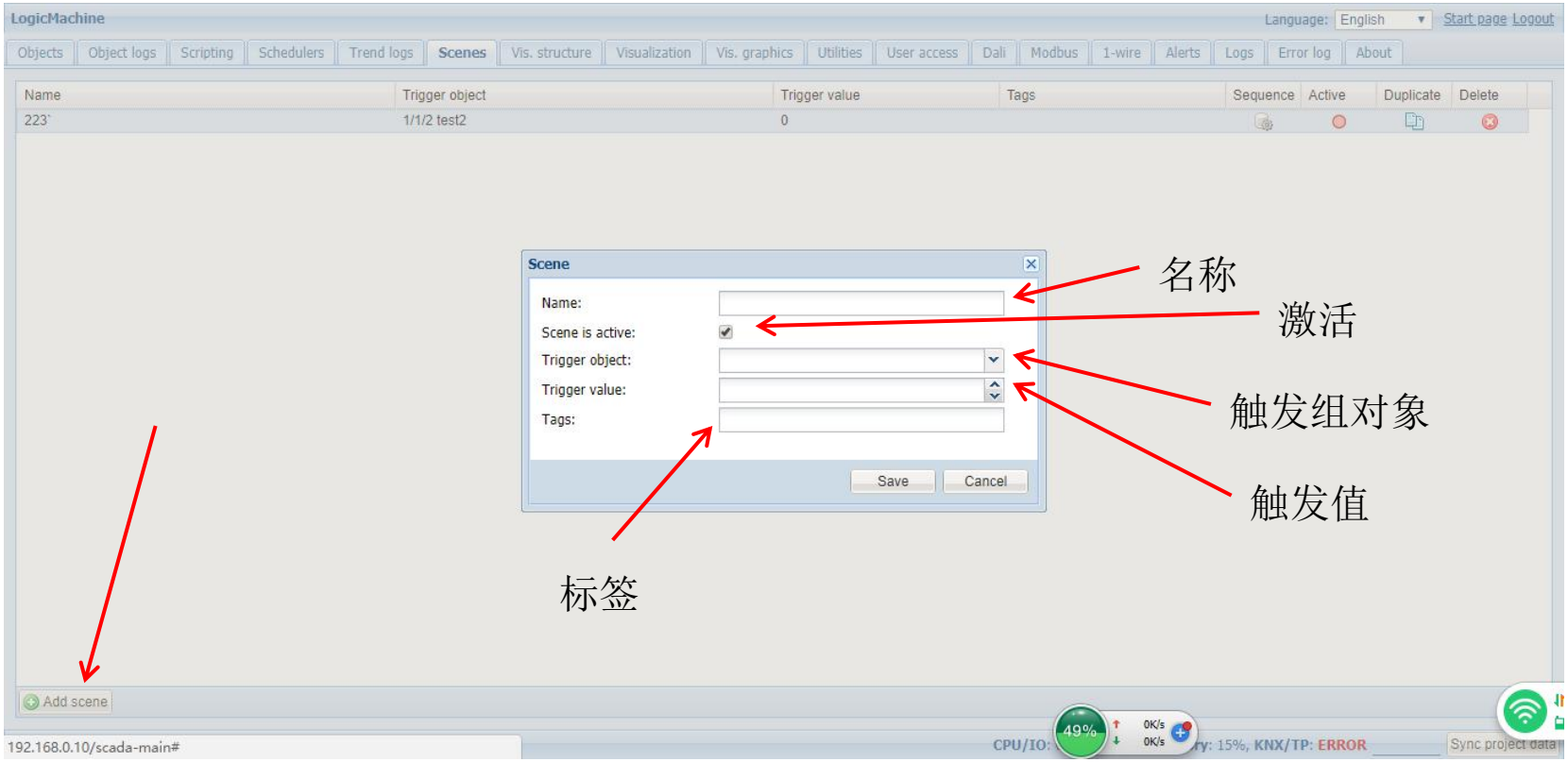


点击当前的按钮，选择需要显示的日期，再点击之前的按钮，选择需要显示的另一个日期，最后点击当前与之前同时显示按钮，生成比较图表

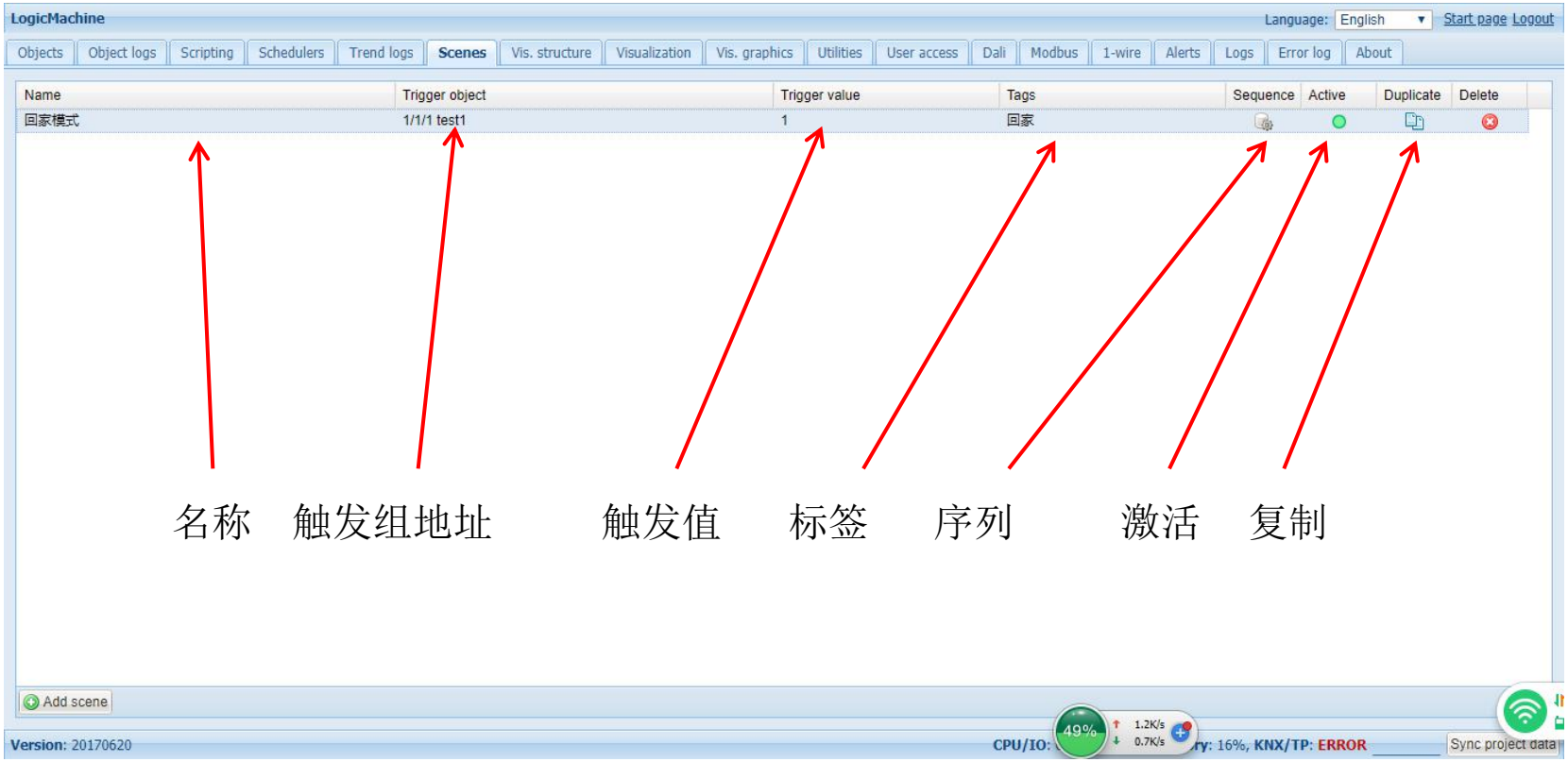
embedded automation

Scenes —— 场景功能

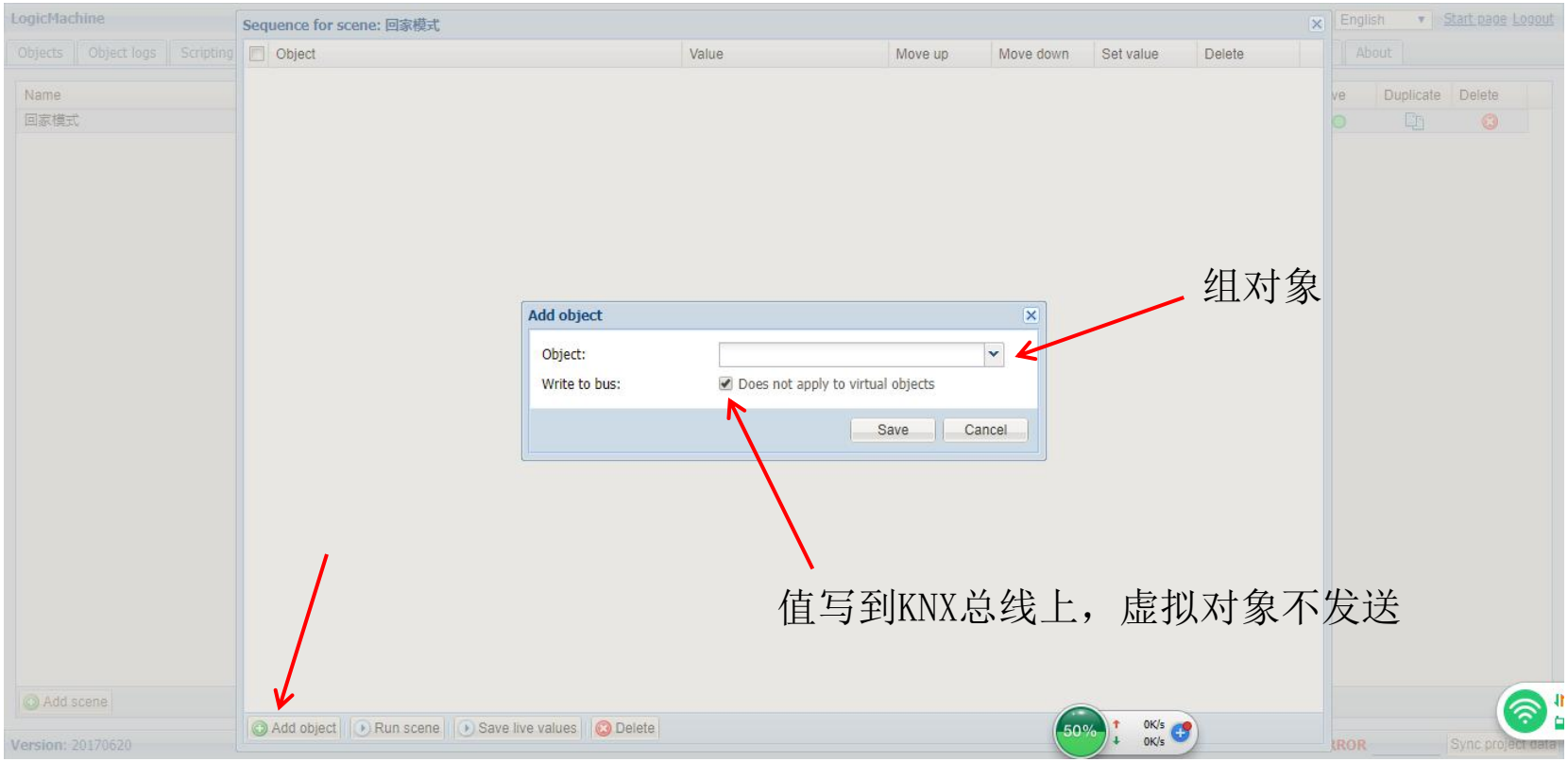
Logic Machine > Scenes



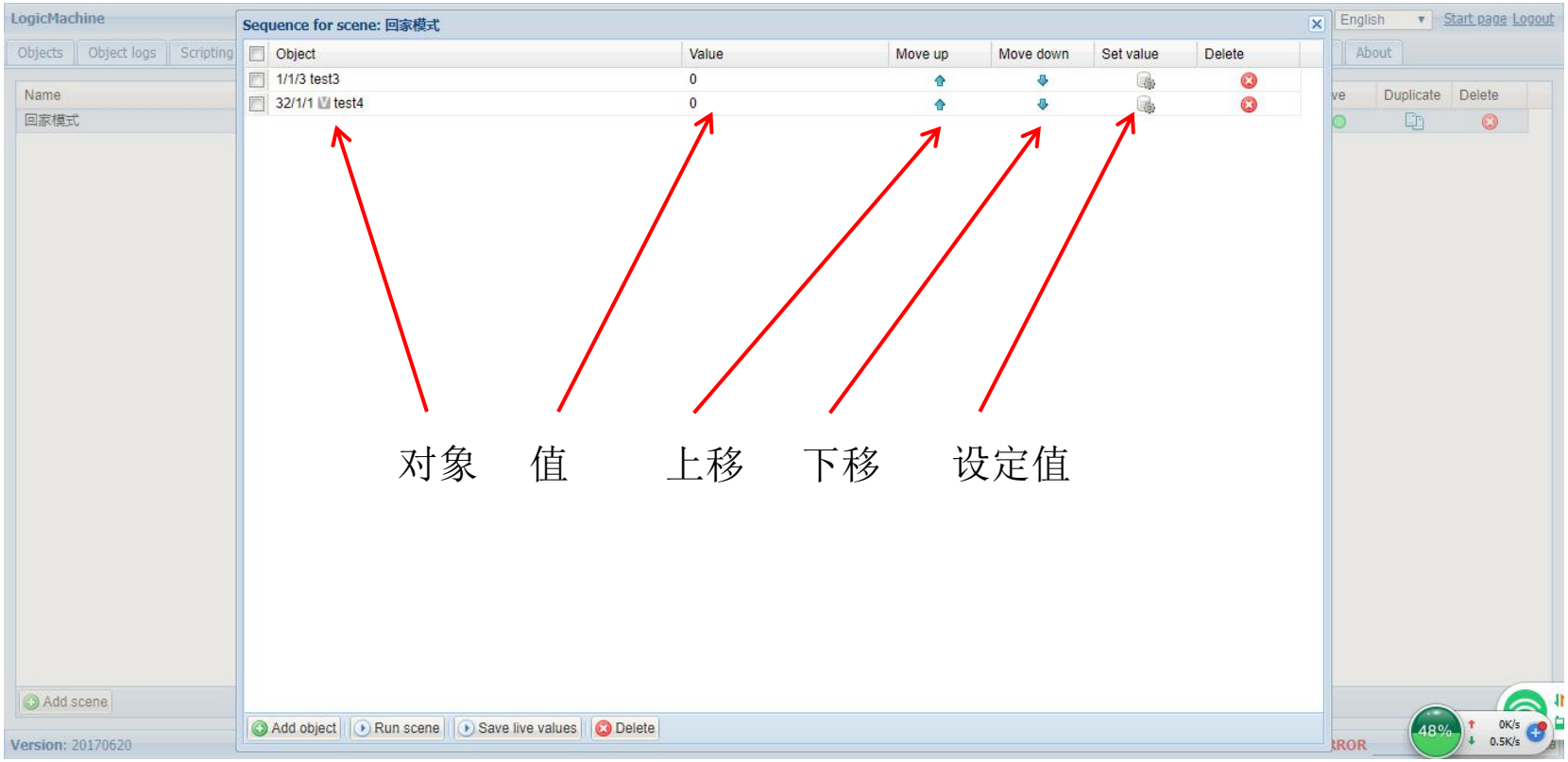
Logic Machine > Scenes



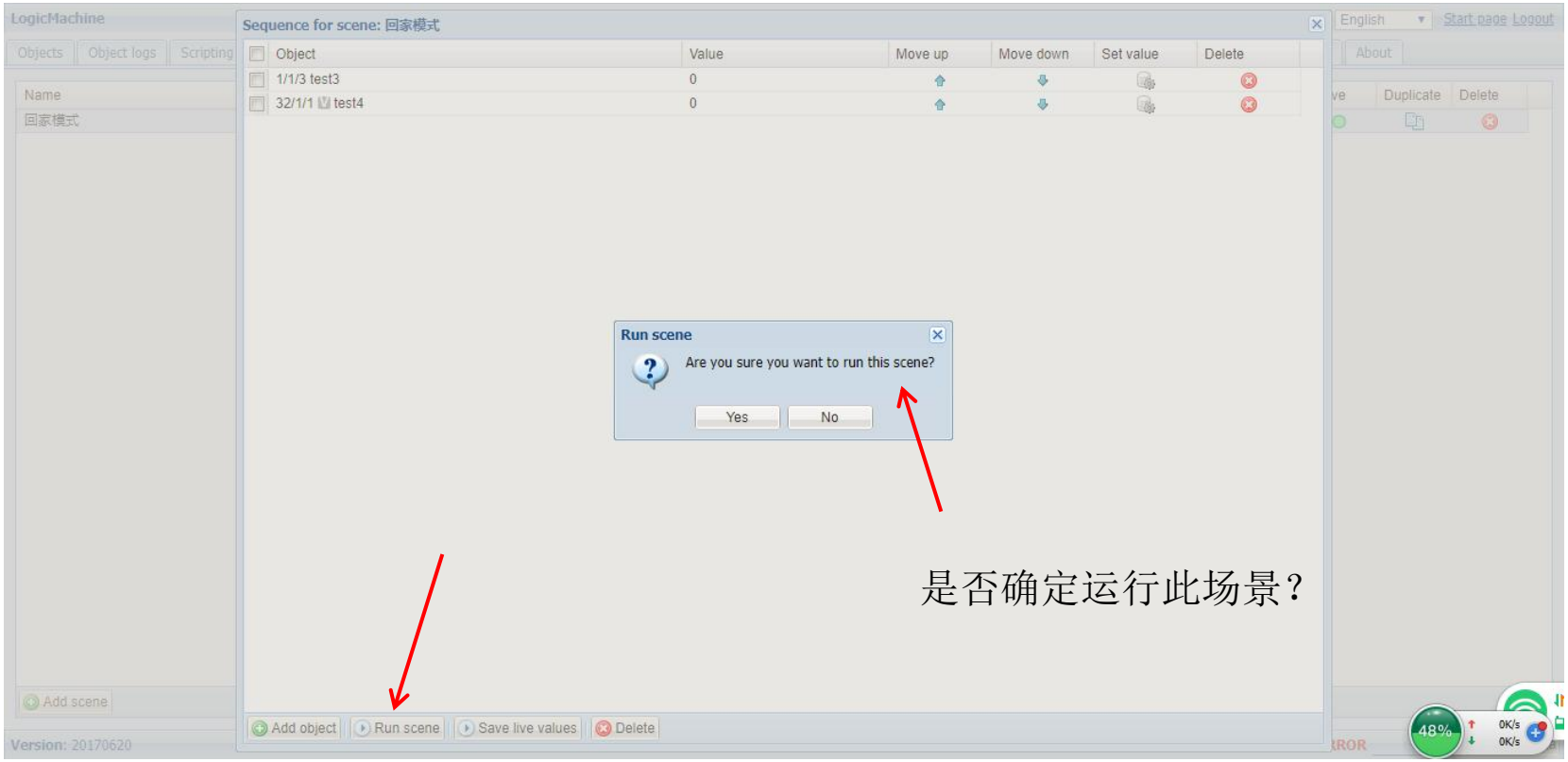
Logic Machine > Scenes > Sequence



Logic Machine > Scenes > Sequence

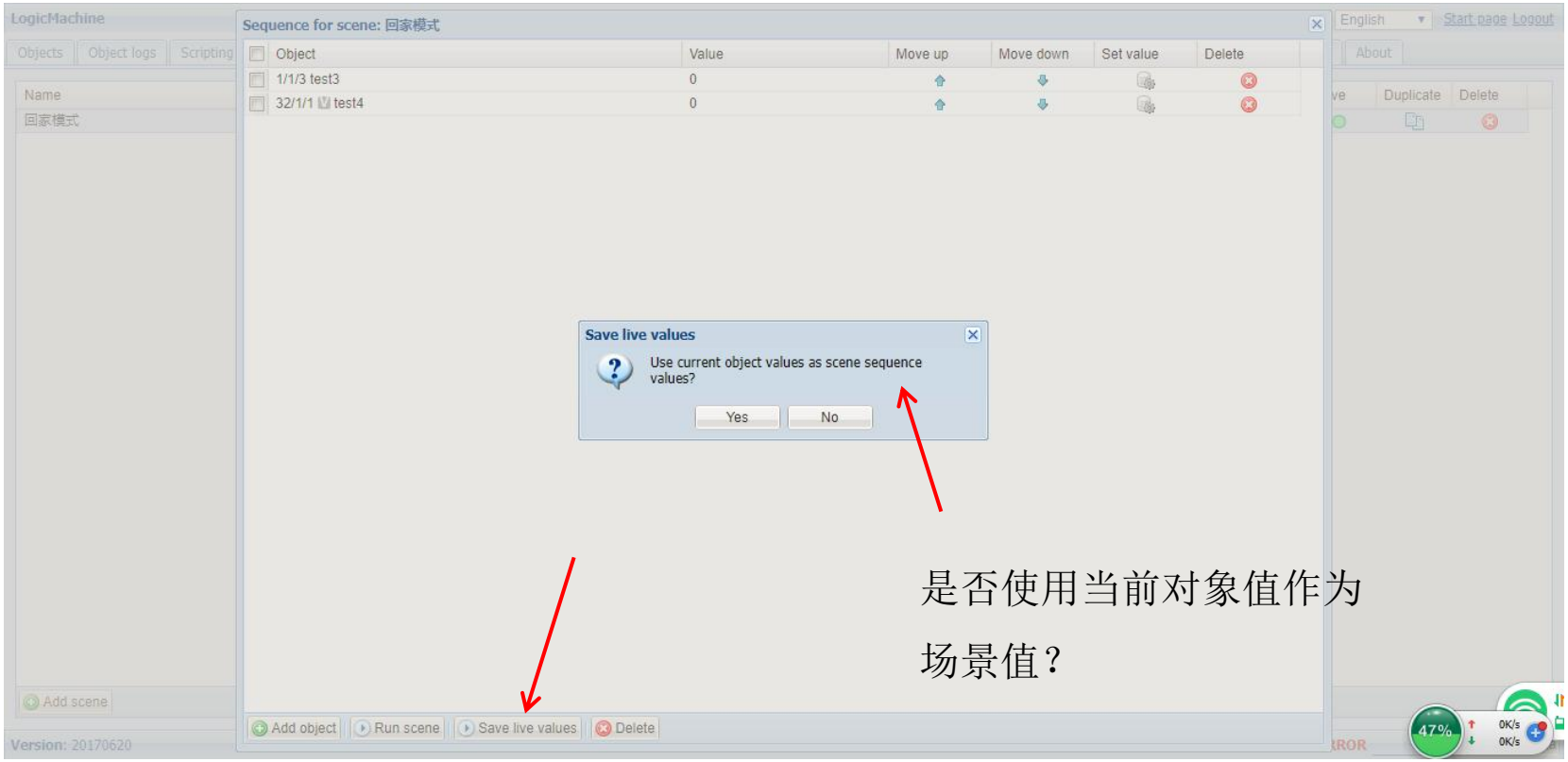


Logic Machine > Scenes > Sequence



是否确定运行此场景？

Logic Machine > Scenes > Sequence

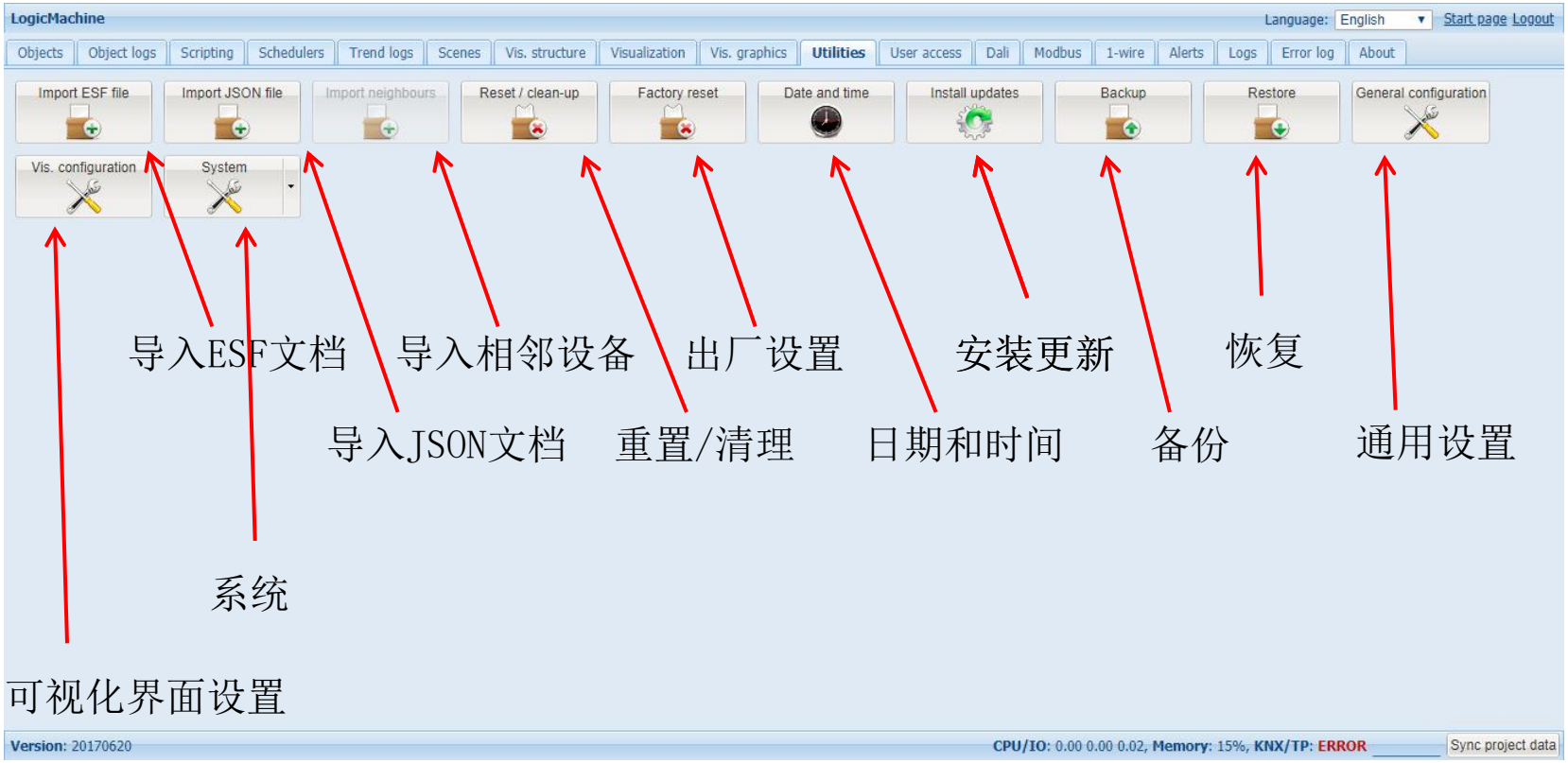


是否使用当前对象值作为场景值？

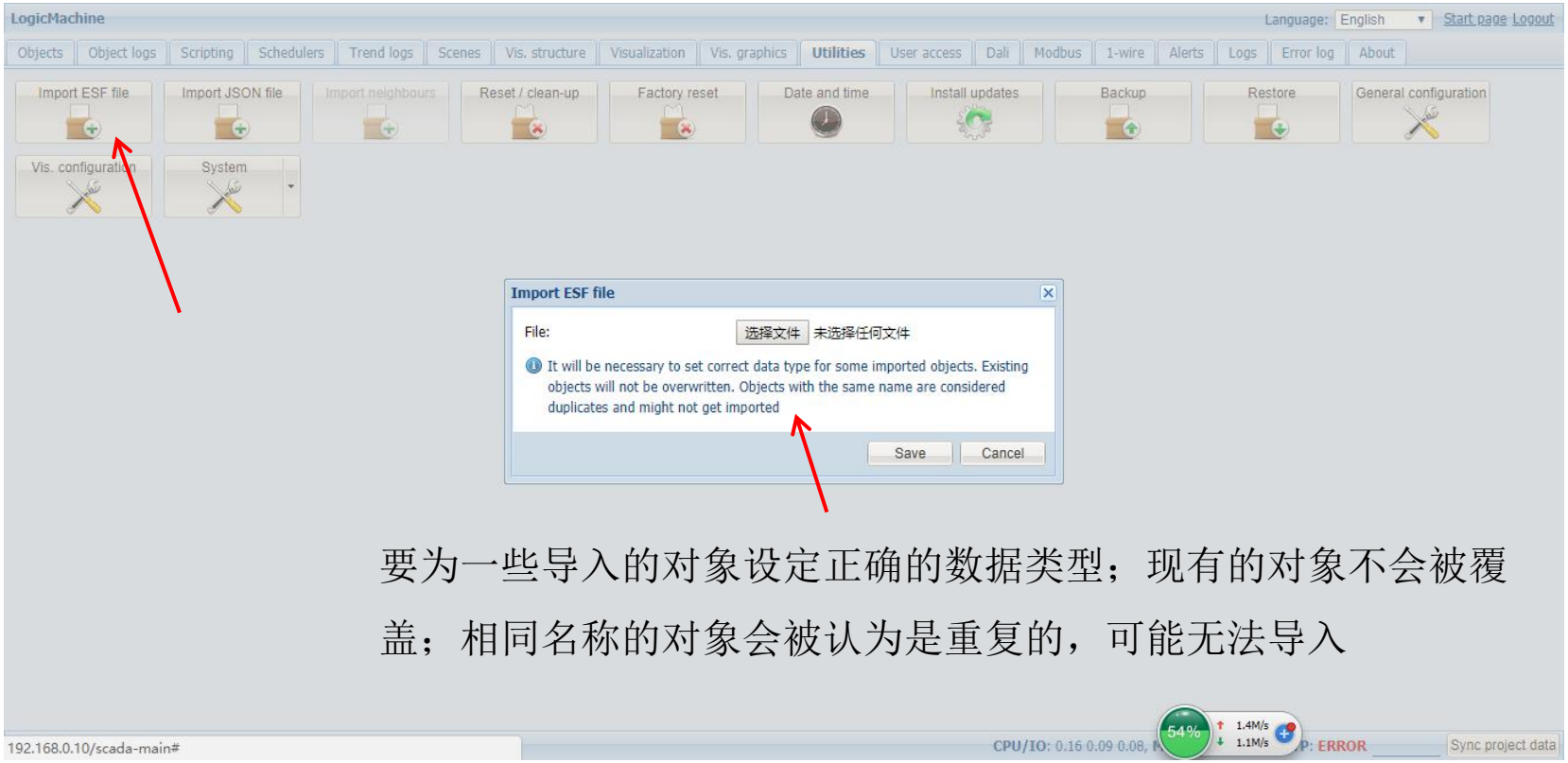
embedded automation

Utilities —— 系统工具

Logic Machine > Utilities

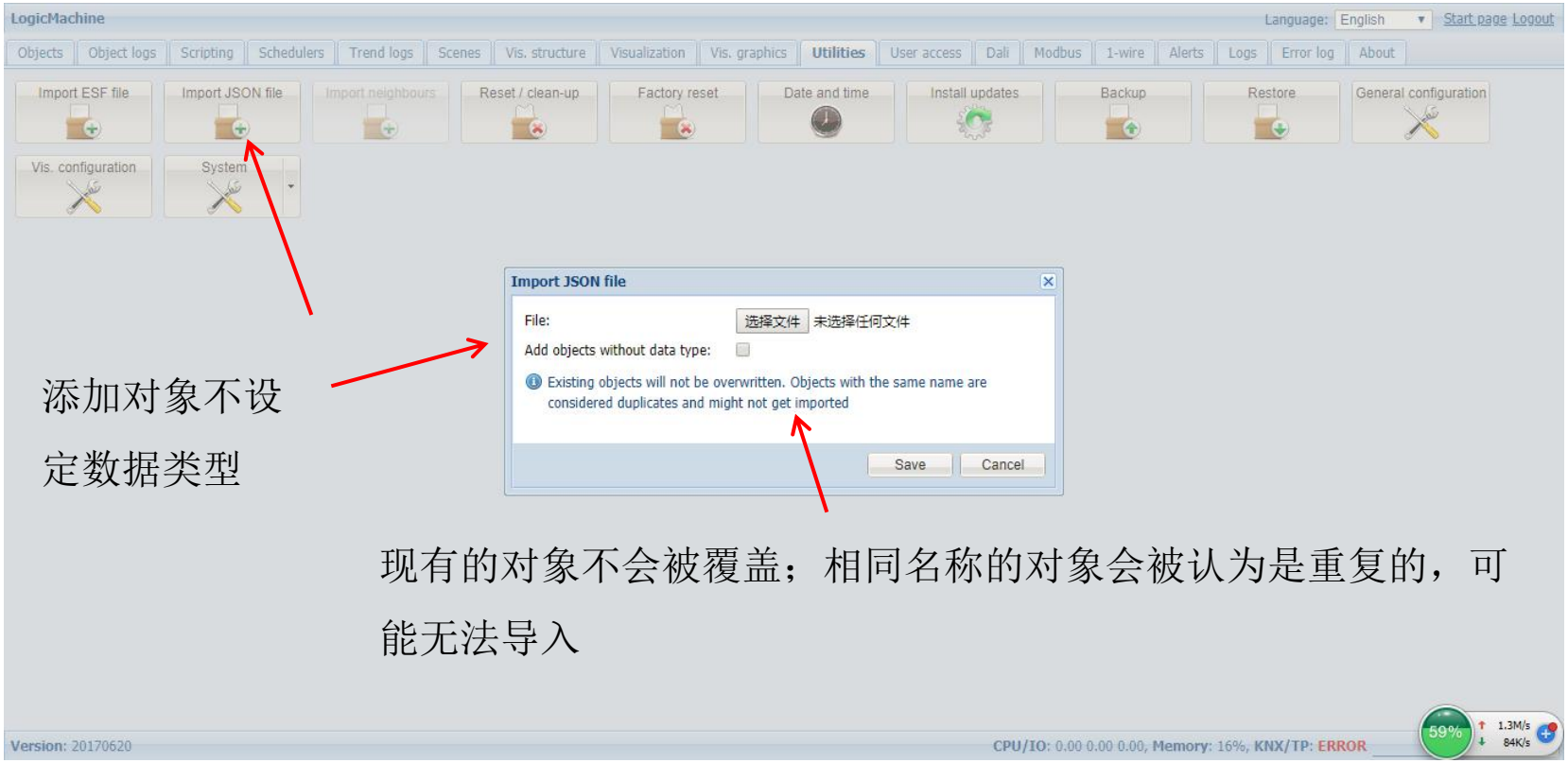


Logic Machine > Utilities > Import ESF file



要为一些导入的对象设定正确的数据类型；现有的对象不会被覆盖；相同名称的对象会被认为是重复的，可能无法导入

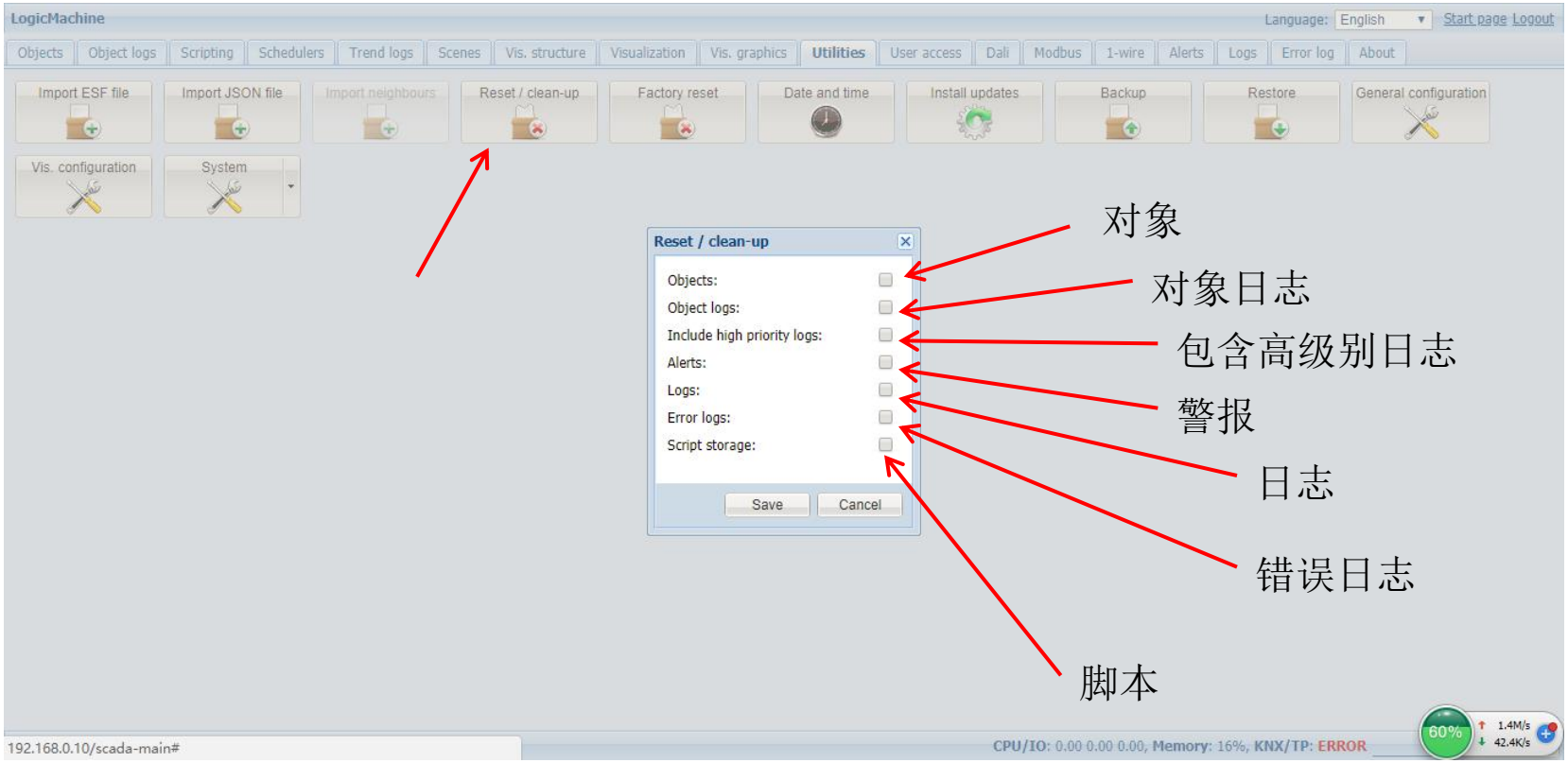
Logic Machine > Utilities > Import JSON file



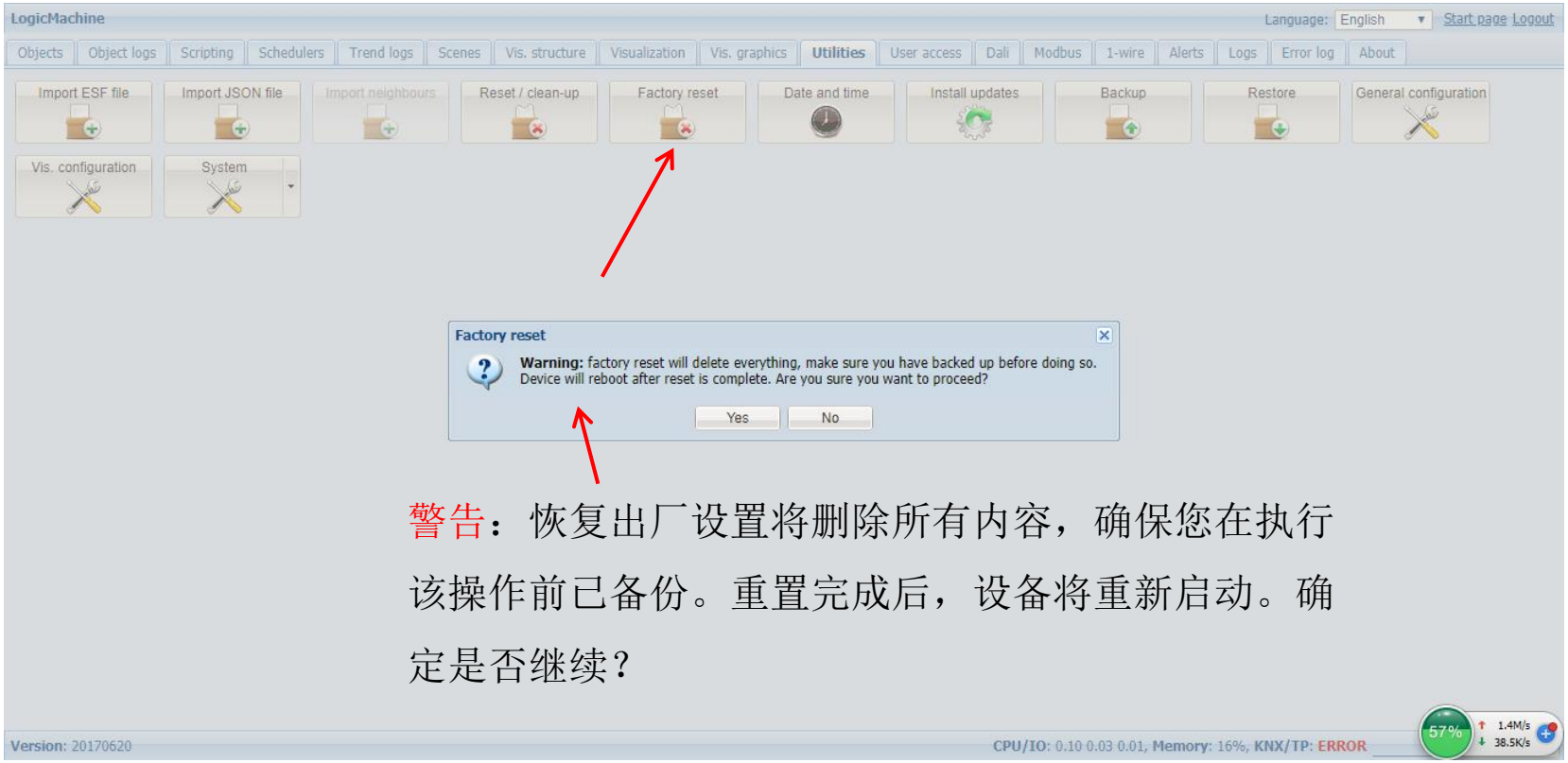
添加对象不设定数据类型

现有的对象不会被覆盖；相同名称的对象会被认为是重复的，可能无法导入

Logic Machine > Utilities > Reset / clean-up

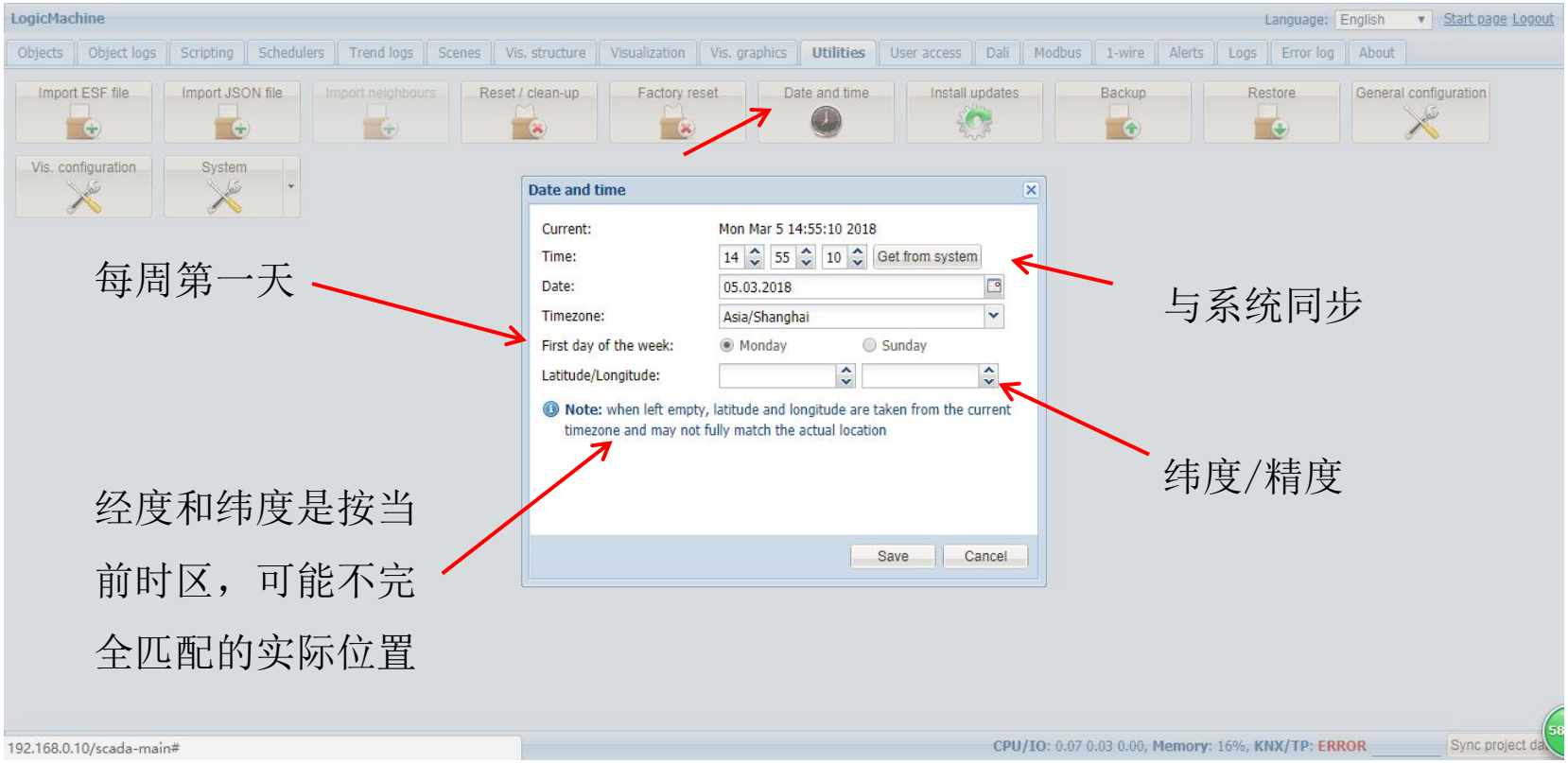


Logic Machine > Utilities > Factory reset

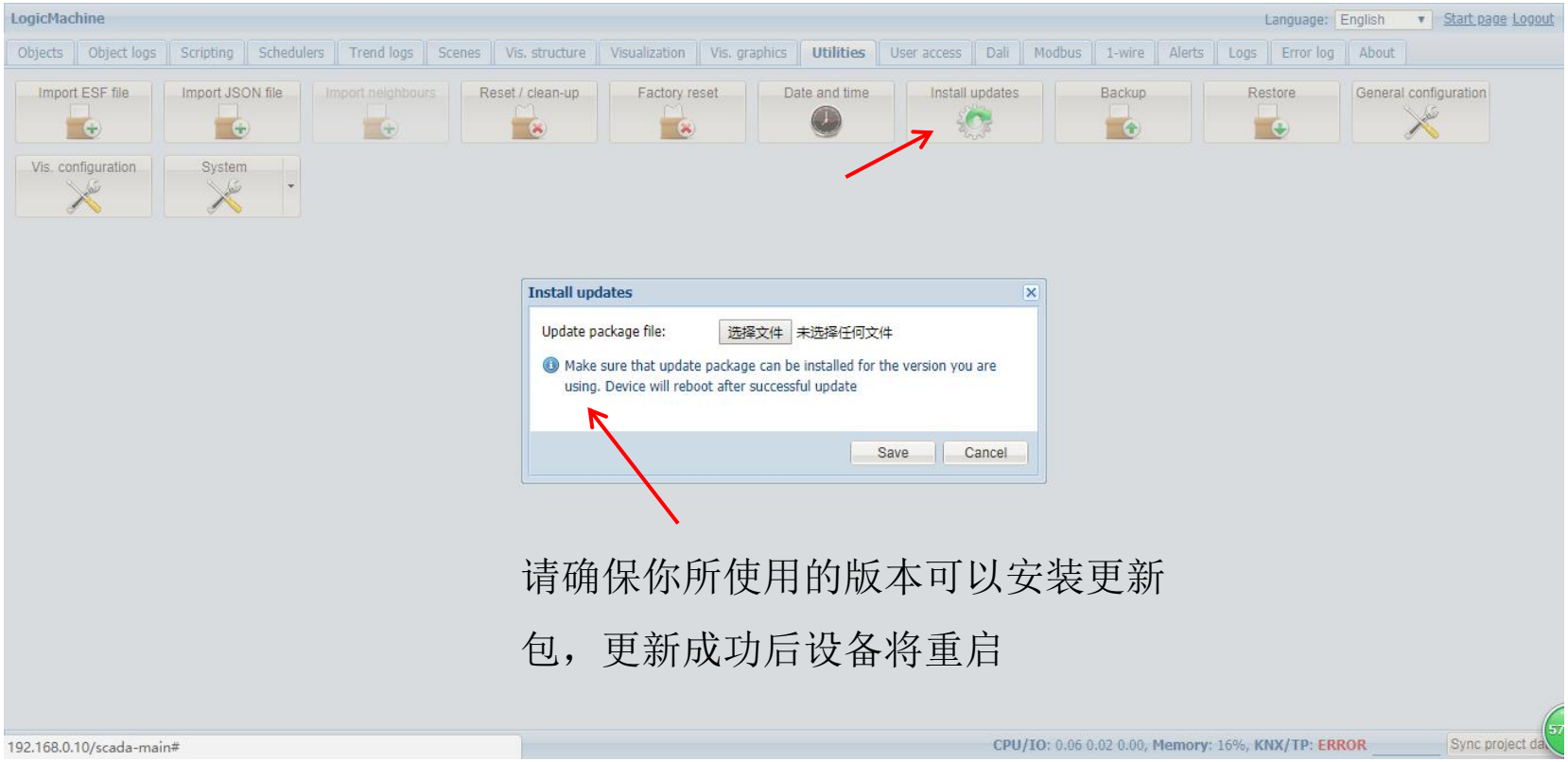


警告：恢复出厂设置将删除所有内容，确保您在执行该操作前已备份。重置完成后，设备将重新启动。确定是否继续？

Logic Machine > Utilities > Factory reset



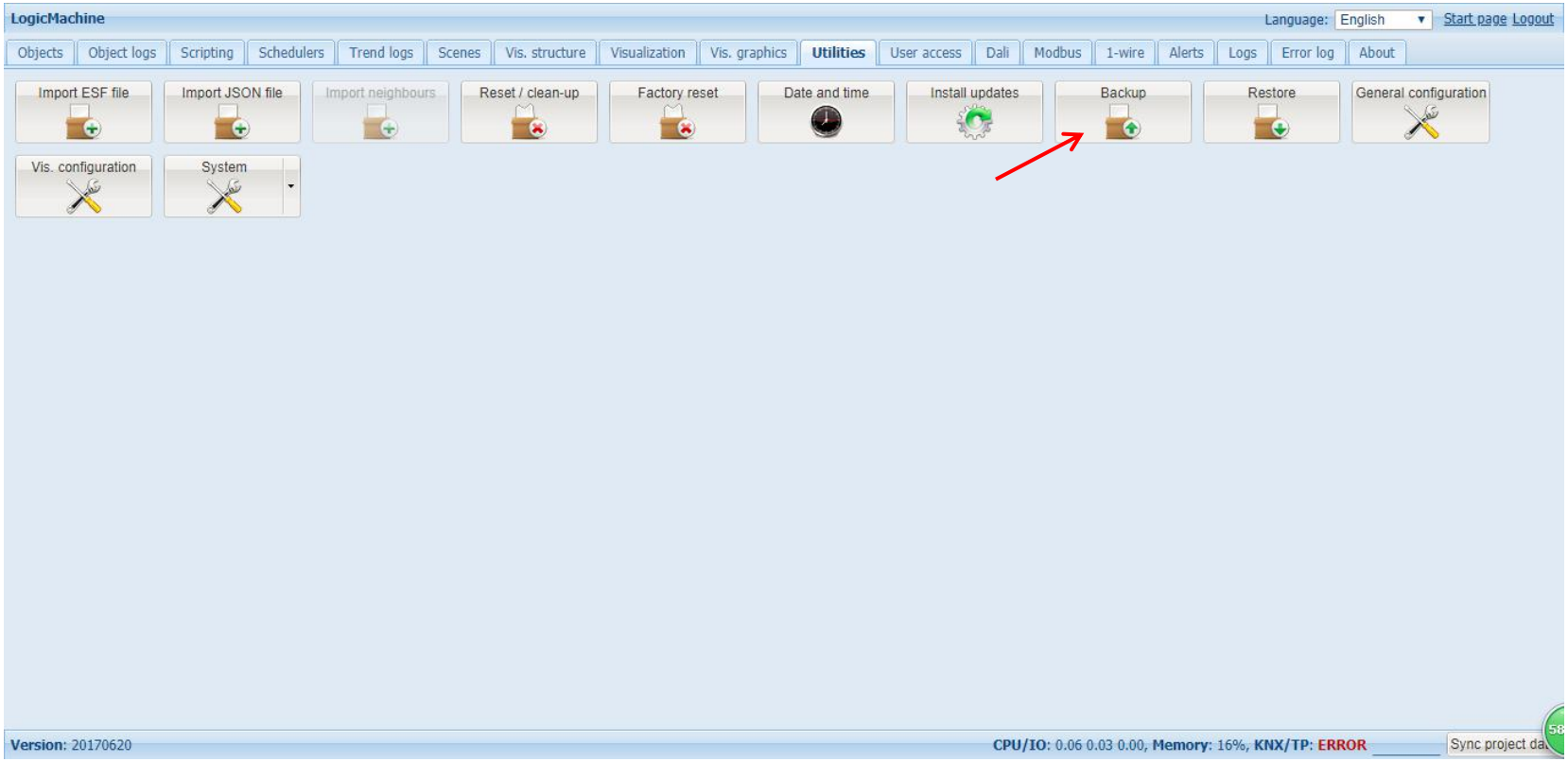
Logic Machine > Utilities > Installs updates



请确保你所使用的版本可以安装更新包，更新成功后设备将重启

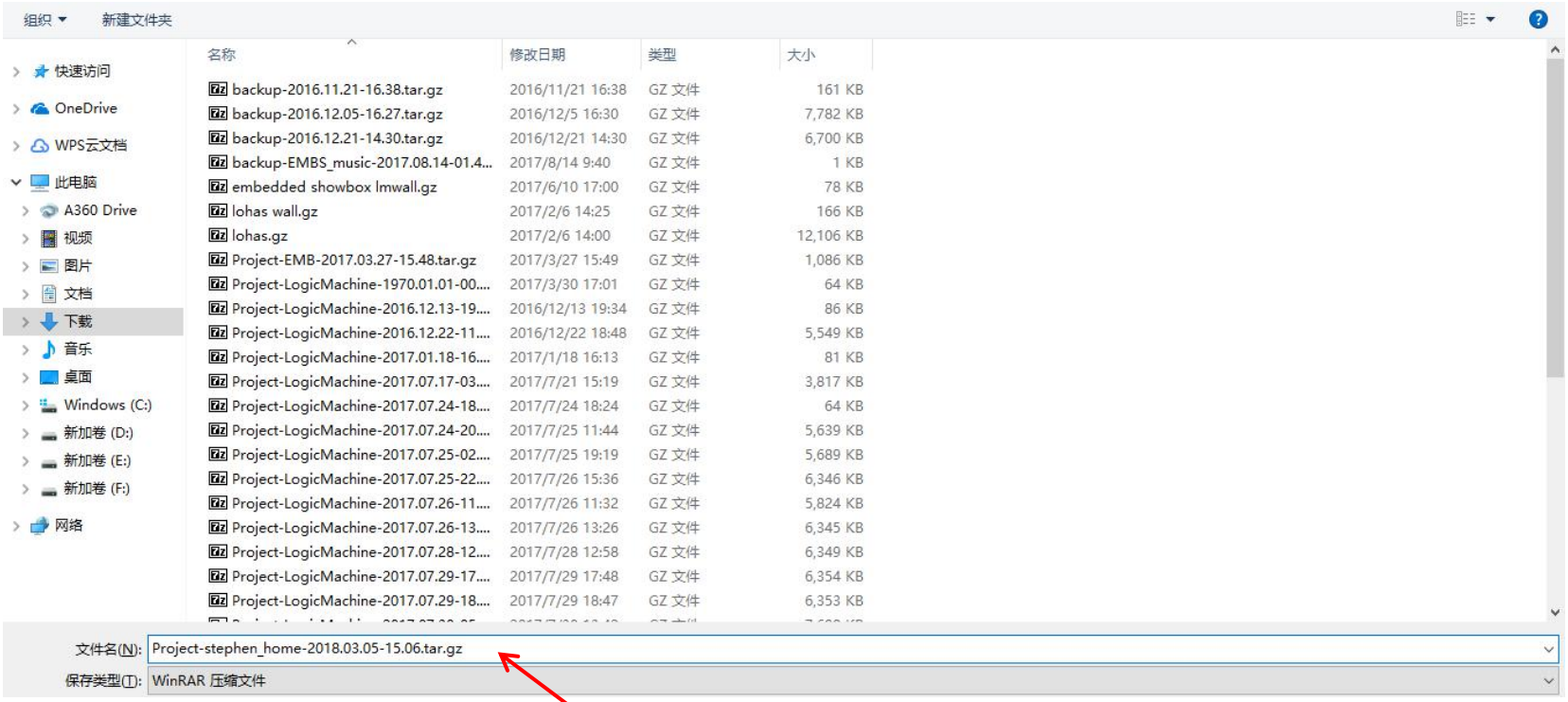
Logic Machine > Utilities > Backup

embedded automation



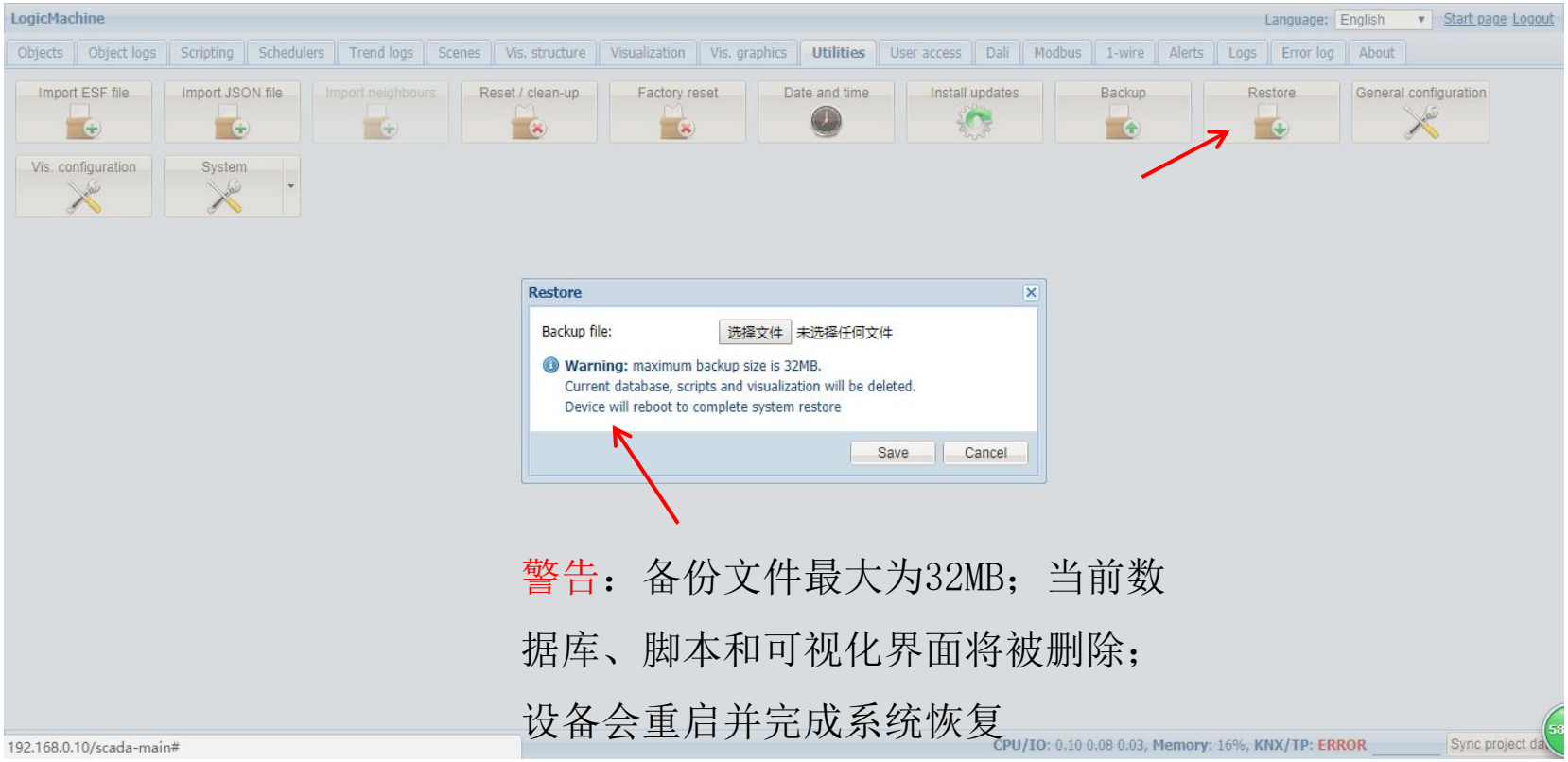
Logic Machine > Utilities > Backup

embedded automation

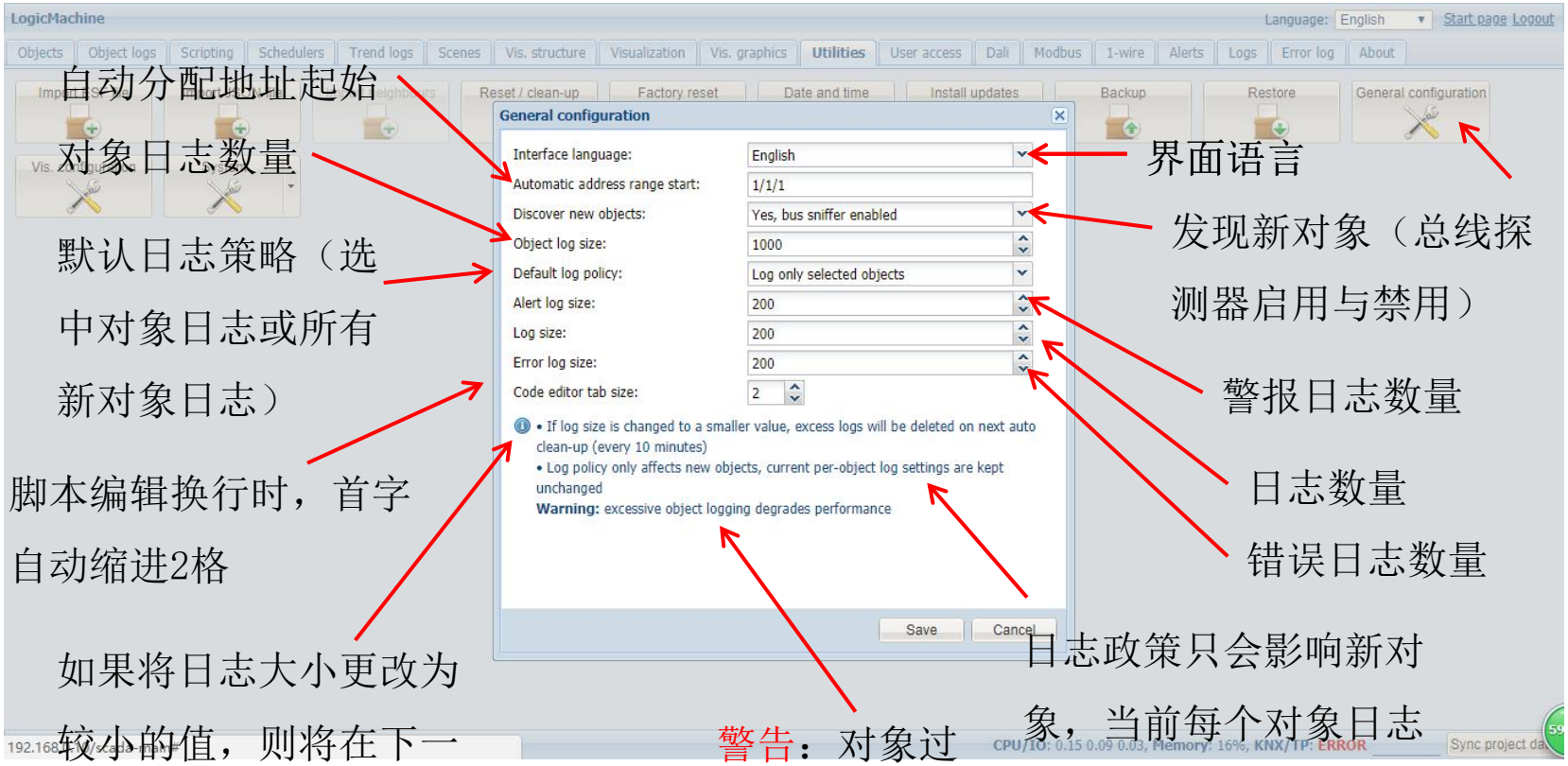


.tar.gz的文件后缀

Logic Machine > Utilities > Restore



警告：备份文件最大为32MB；当前数据库、脚本和可视化界面将被删除；设备会重启并完成系统恢复



自动分配地址起始对象日志数量

默认日志策略（选中对象日志或所有新对象日志）

脚本编辑换行时，首字自动缩进2格

如果将日志大小更改为较小的值，则将在下一次自动清除（每10分钟）删除多余日志

警告：对象过多的日志记录会降低性能

界面语言

发现新对象（总线探测器启用与禁用）

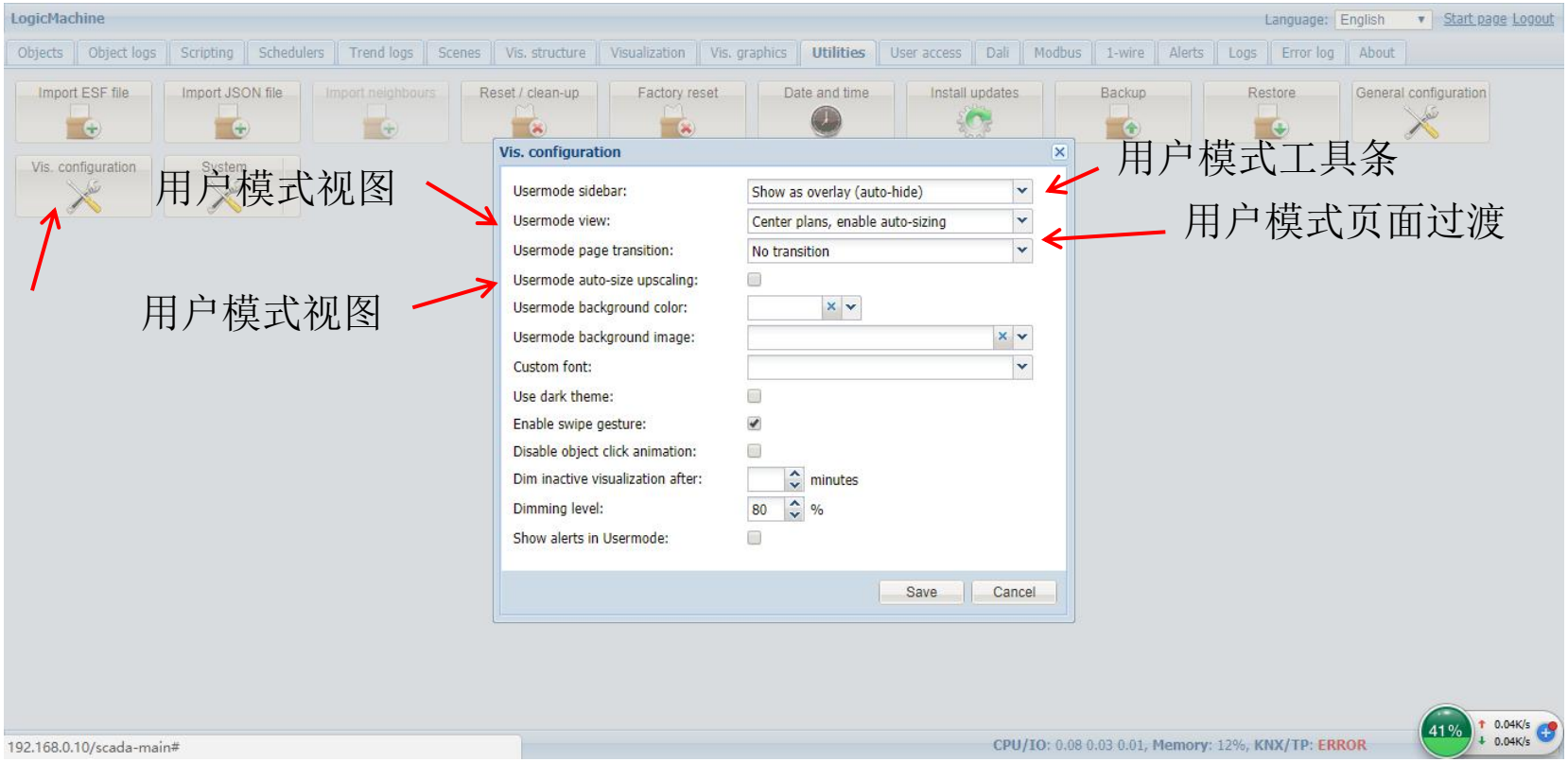
警报日志数量

日志数量

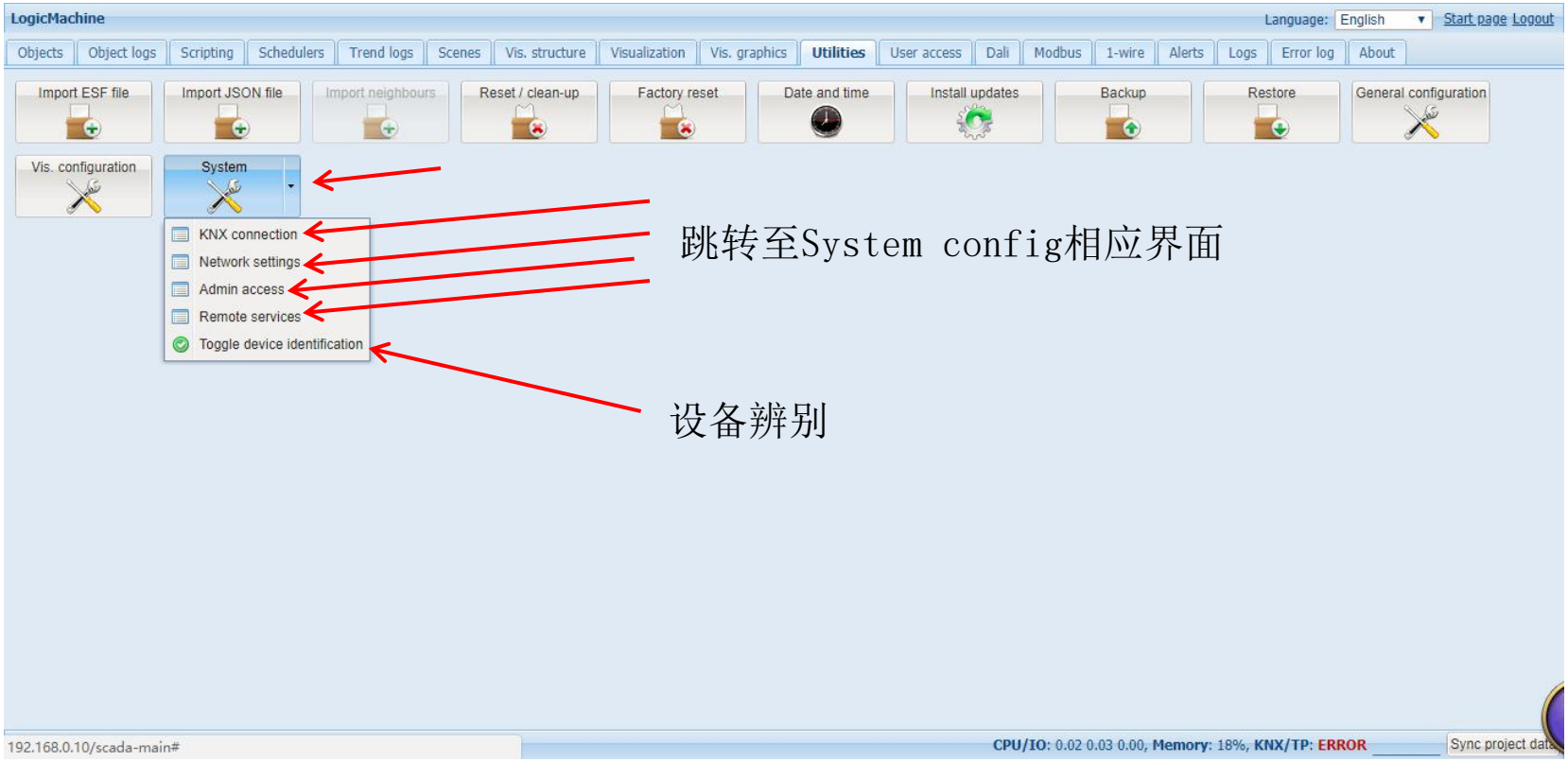
错误日志数量

日志政策只会影响新对象，当前每个对象日志设置都保持不变

Logic Machine > Utilities > Vis.configuration



Logic Machine > Utilities > System



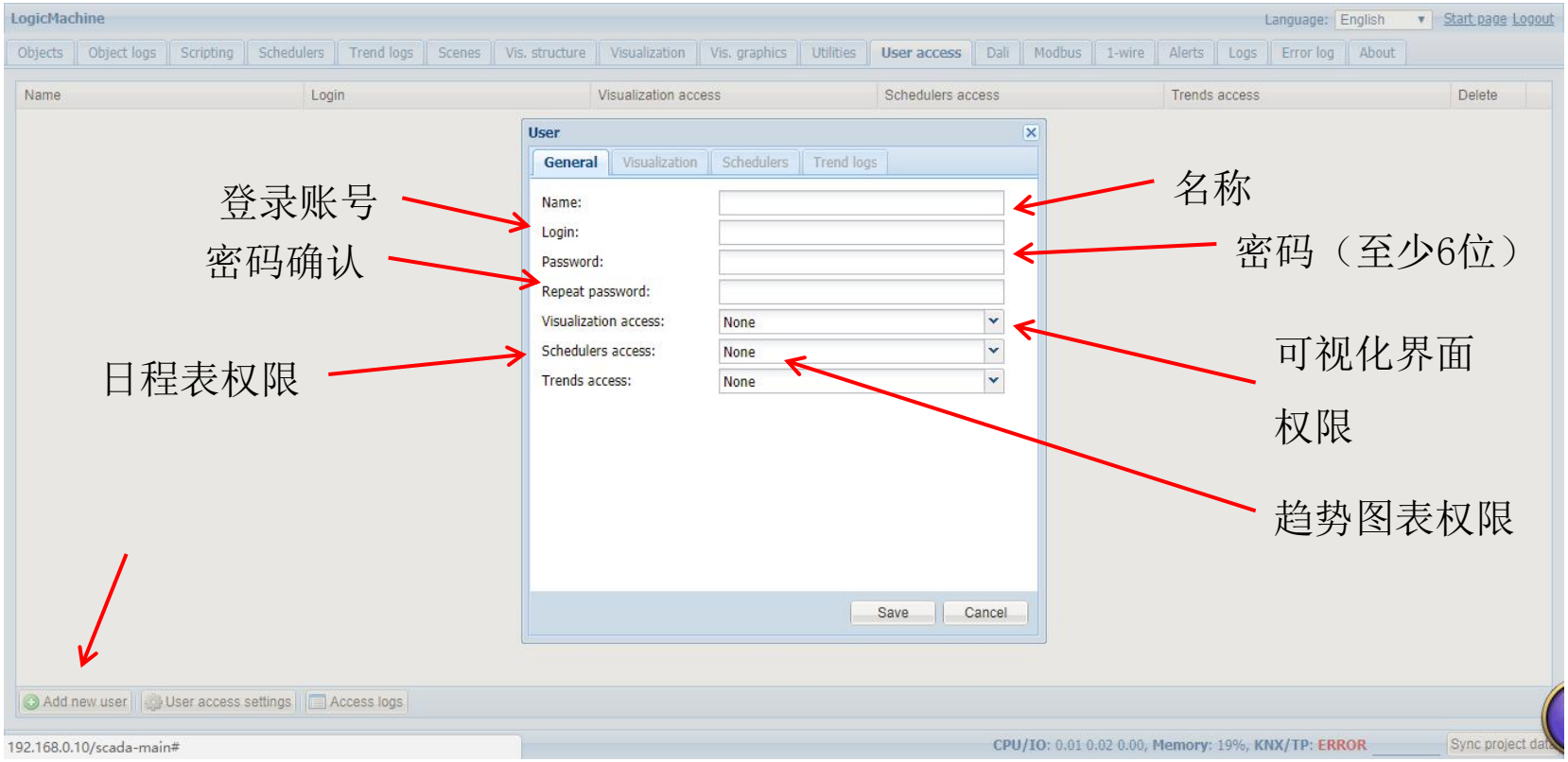
正常运行，设备闪绿灯

确认设备，设备红绿交错闪烁；确认完毕后，再按一次恢复正常运行

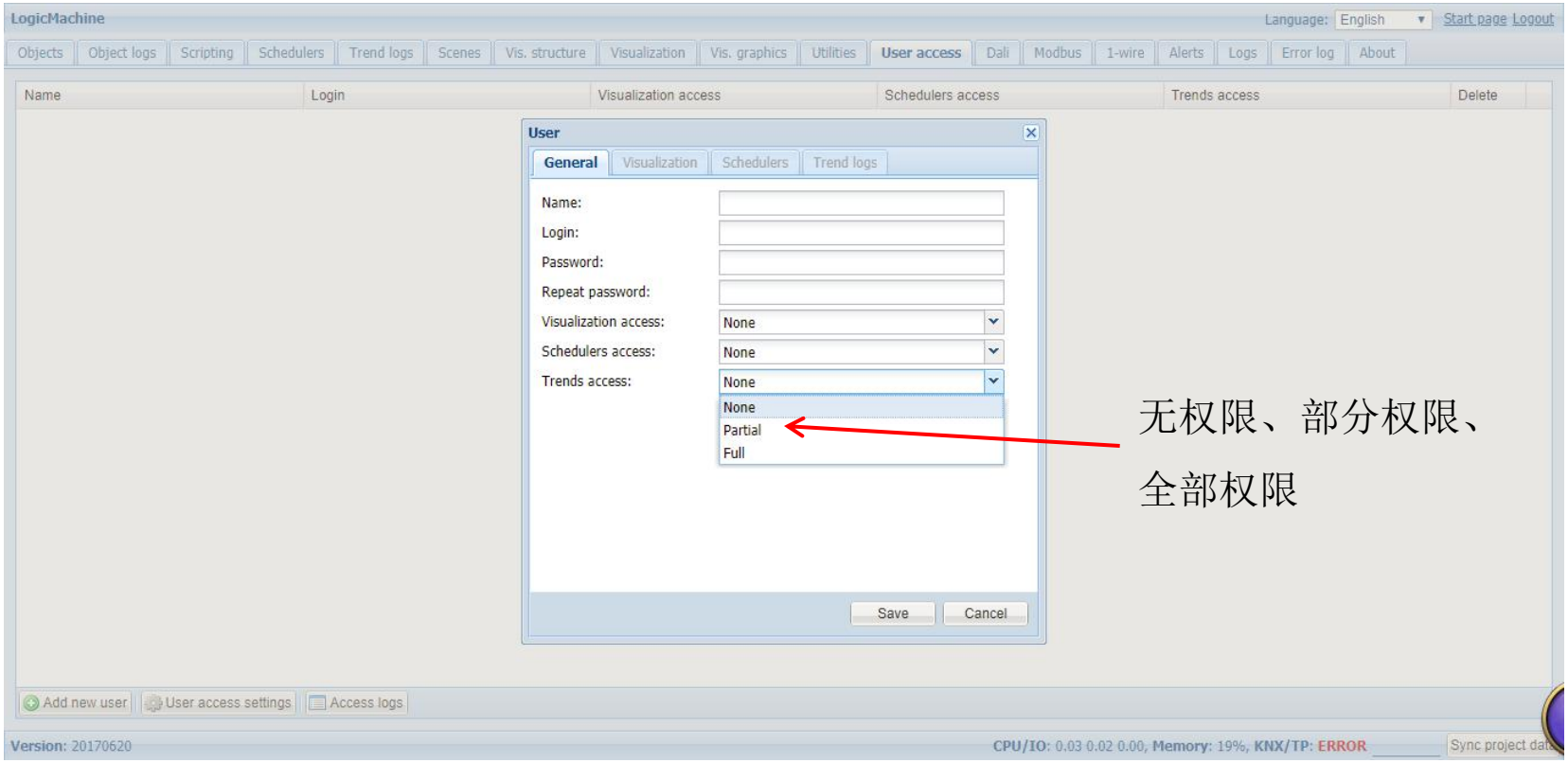
embedded automation

User access —— 用户权限

Logic Machine > User access

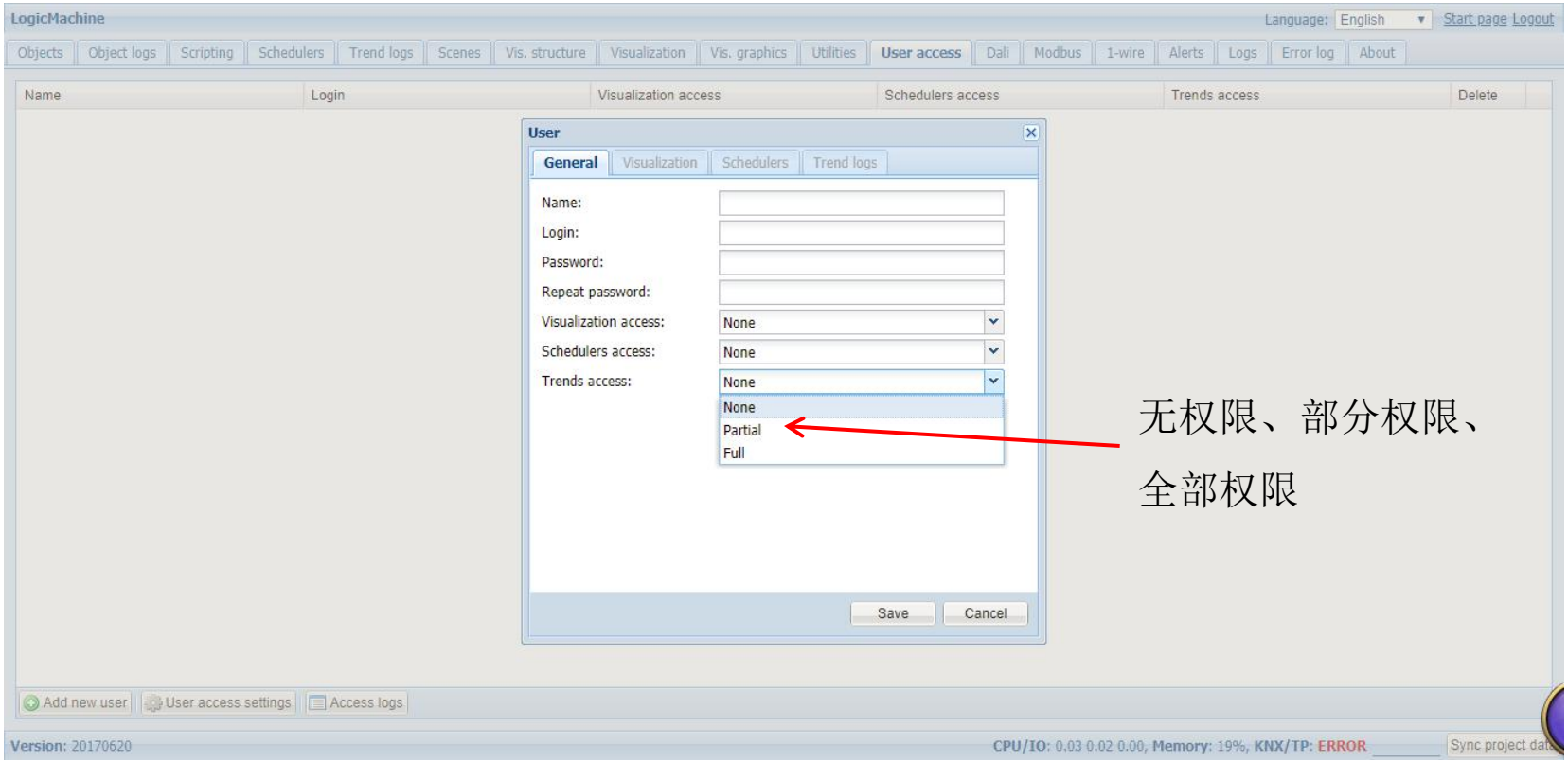


Logic Machine > User access



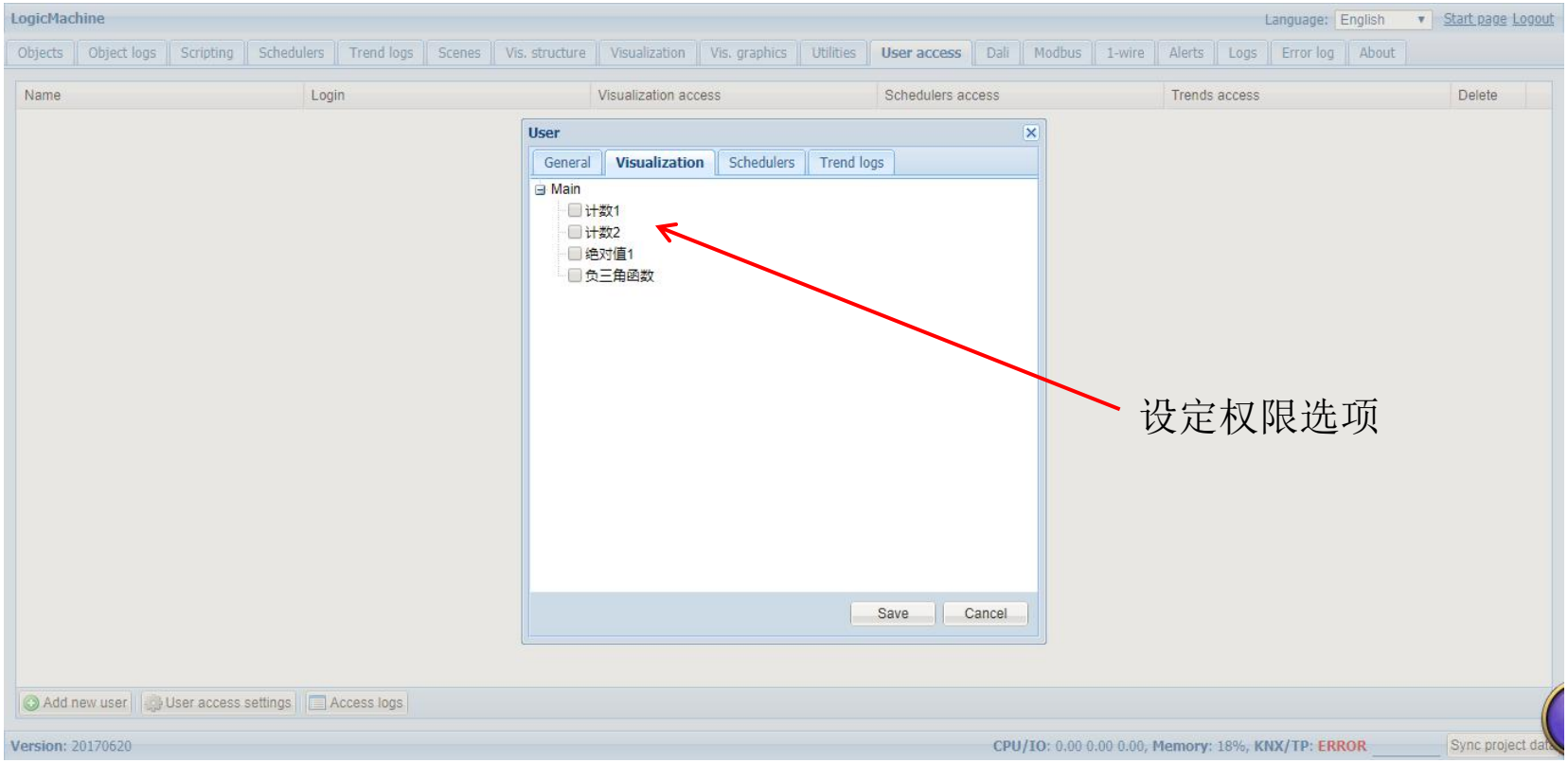
无权限、部分权限、全部权限

Logic Machine > User access



无权限、部分权限、全部权限

Logic Machine > User access > Partial

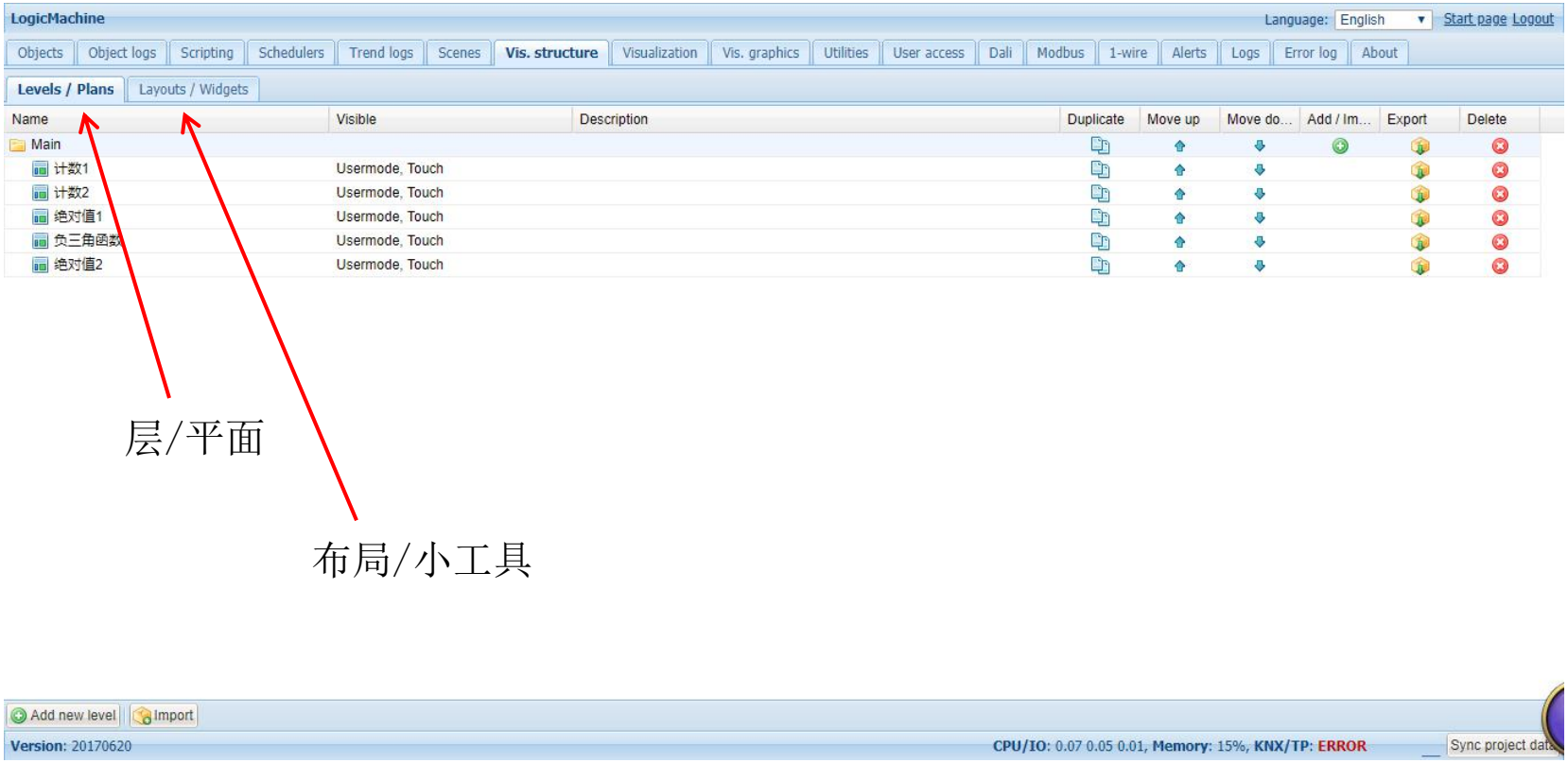


embedded automation

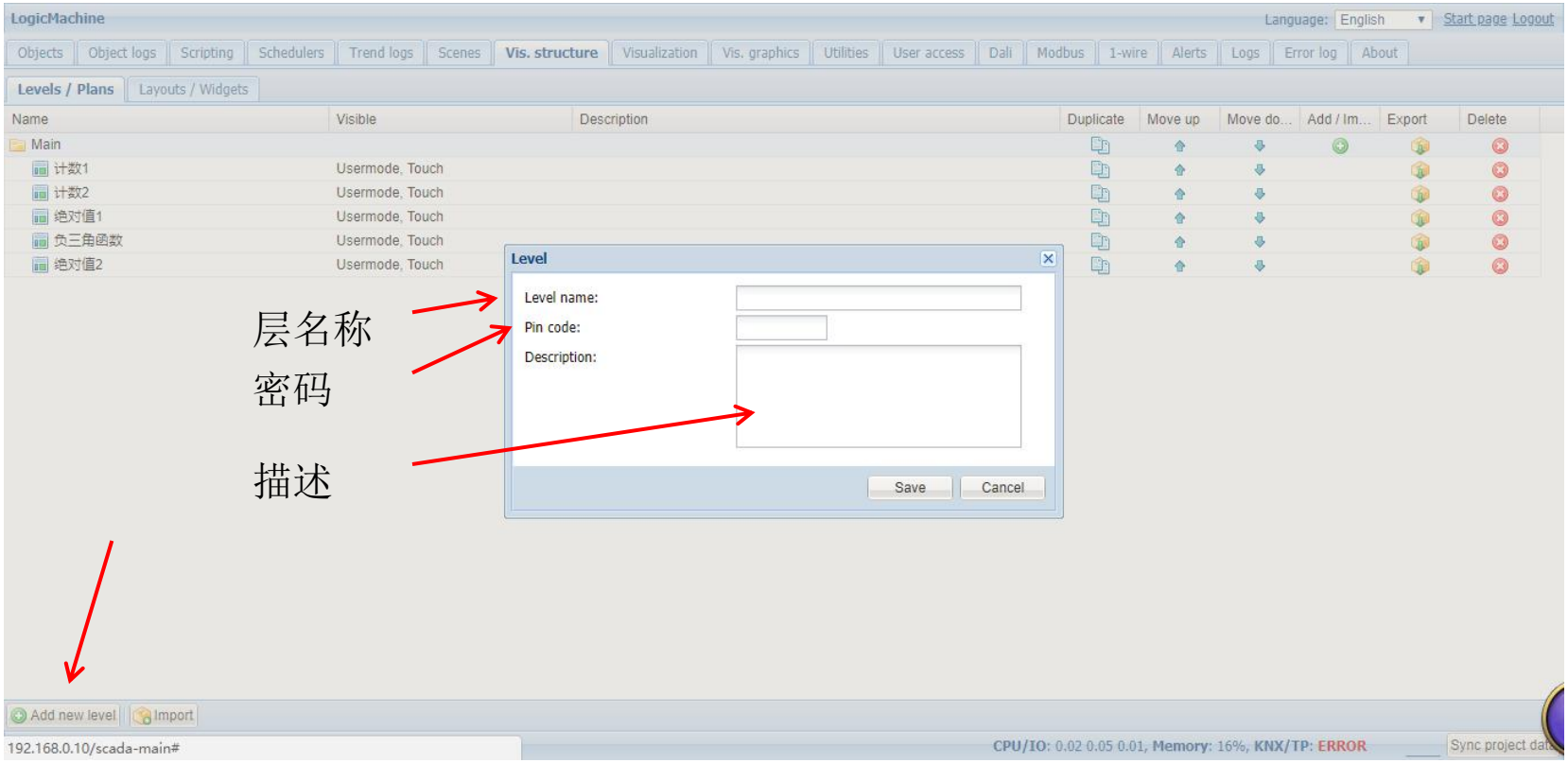
Visualization —— 可视化界面创建

Logic Machine > Vis . structure

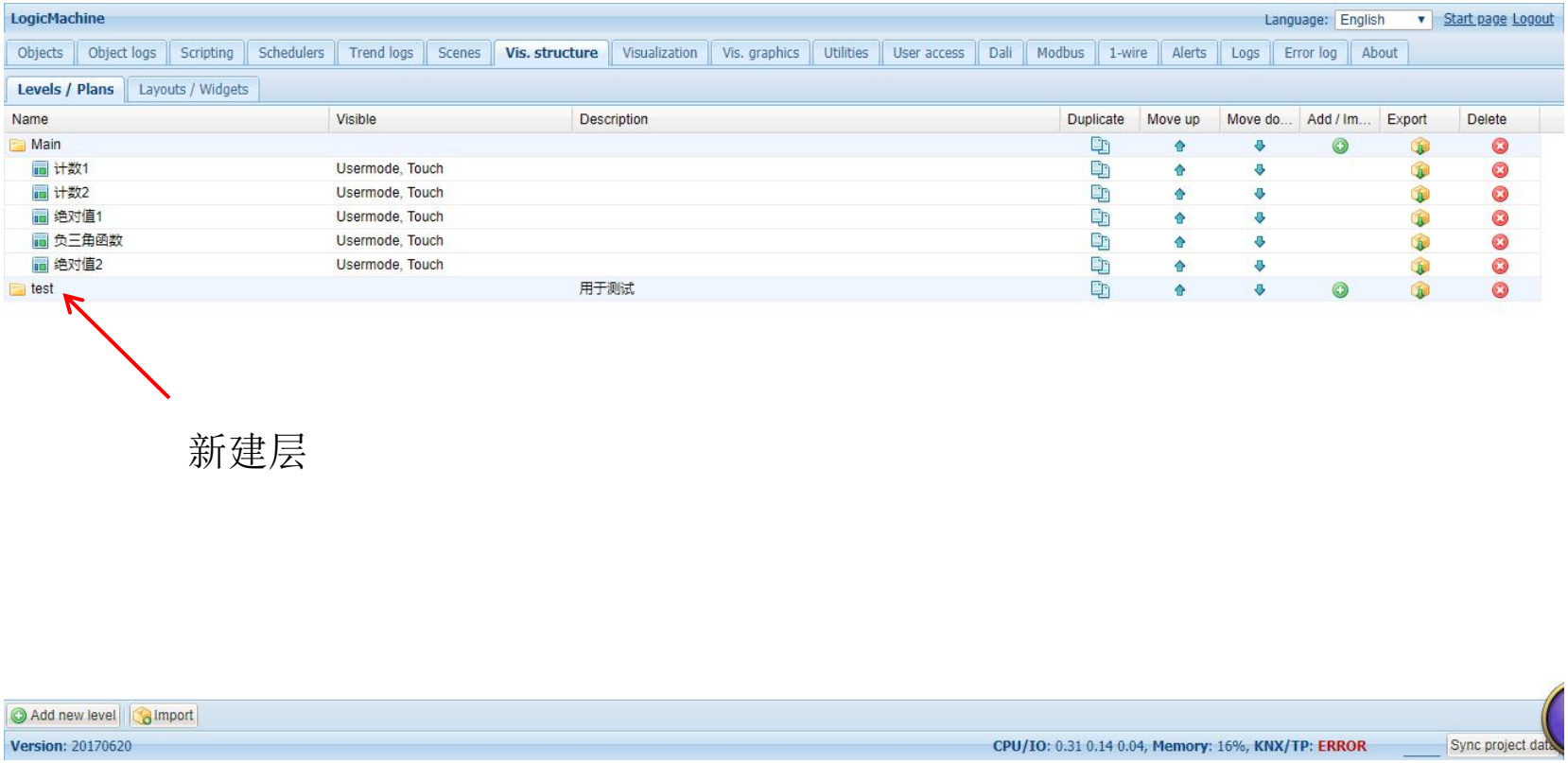
embedded automation



Logic Machine > Vis . structure > Levels / Plans

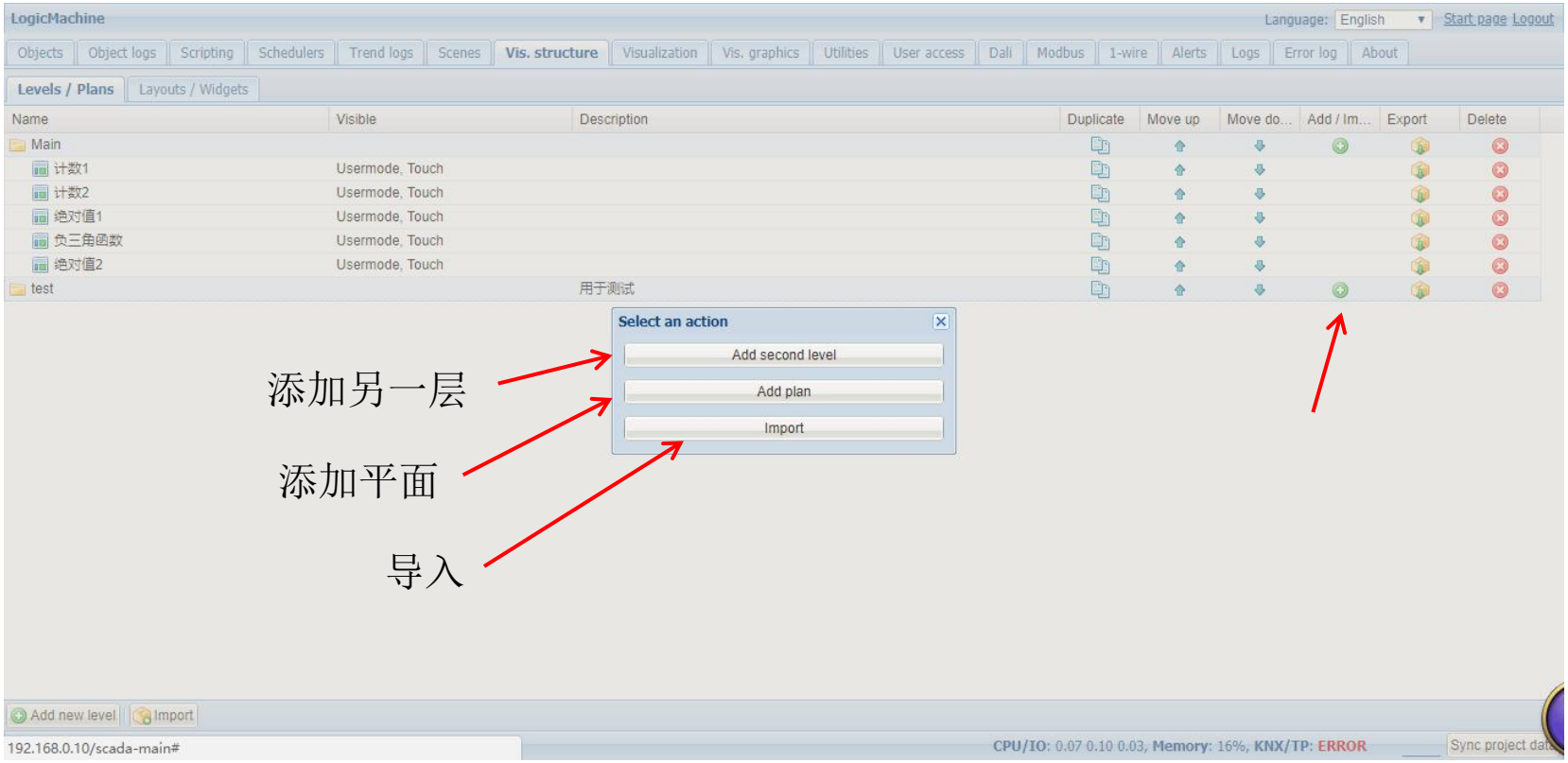


Logic Machine > Vis . structure > Levels / Plans



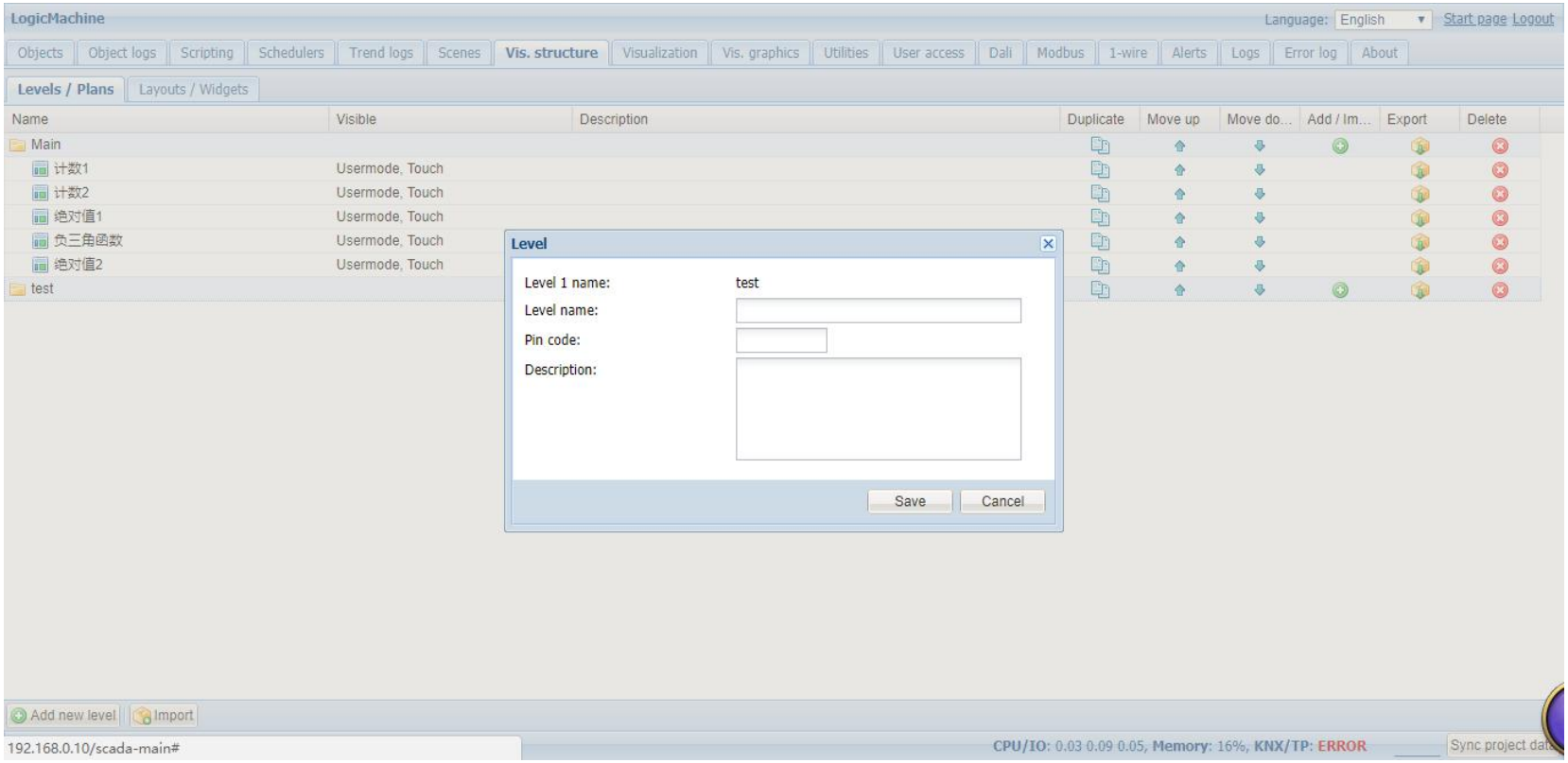
新建层

Logic Machine > Vis . structure > Levels / Plans

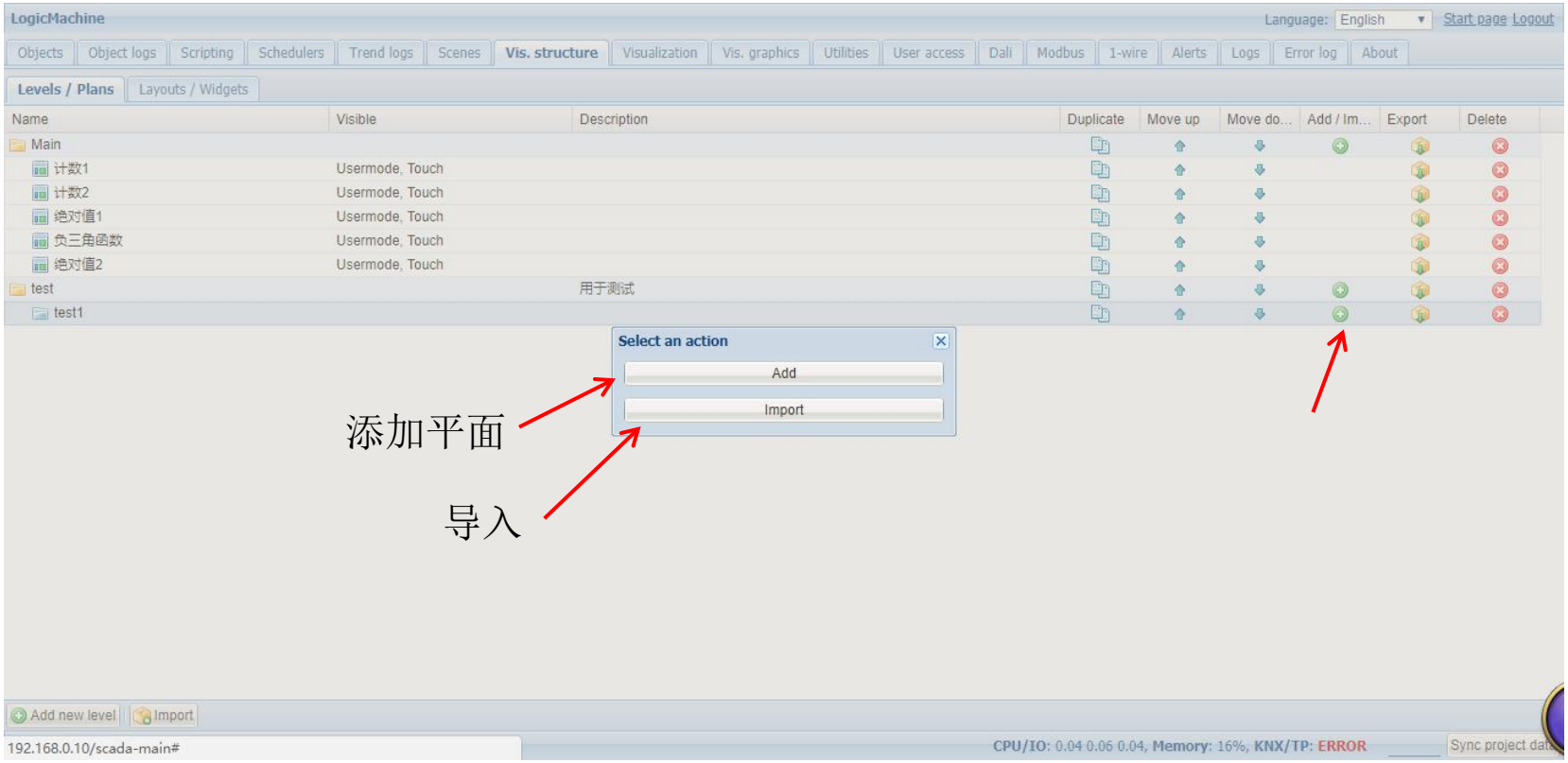


Logic Machine > Vis . structure > Levels / Plans

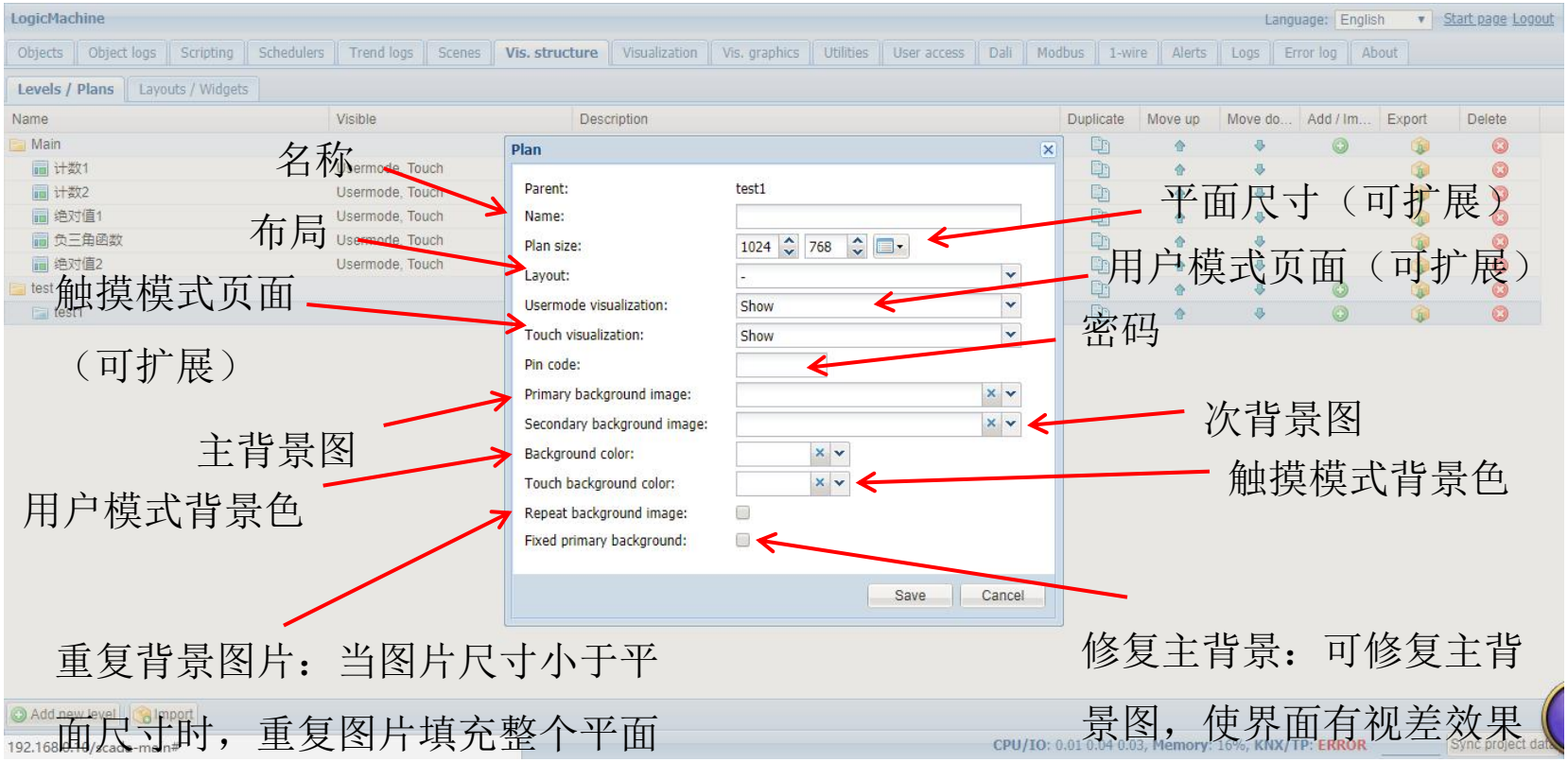
embedded automation



Logic Machine > Vis . structure > Levels / Plans

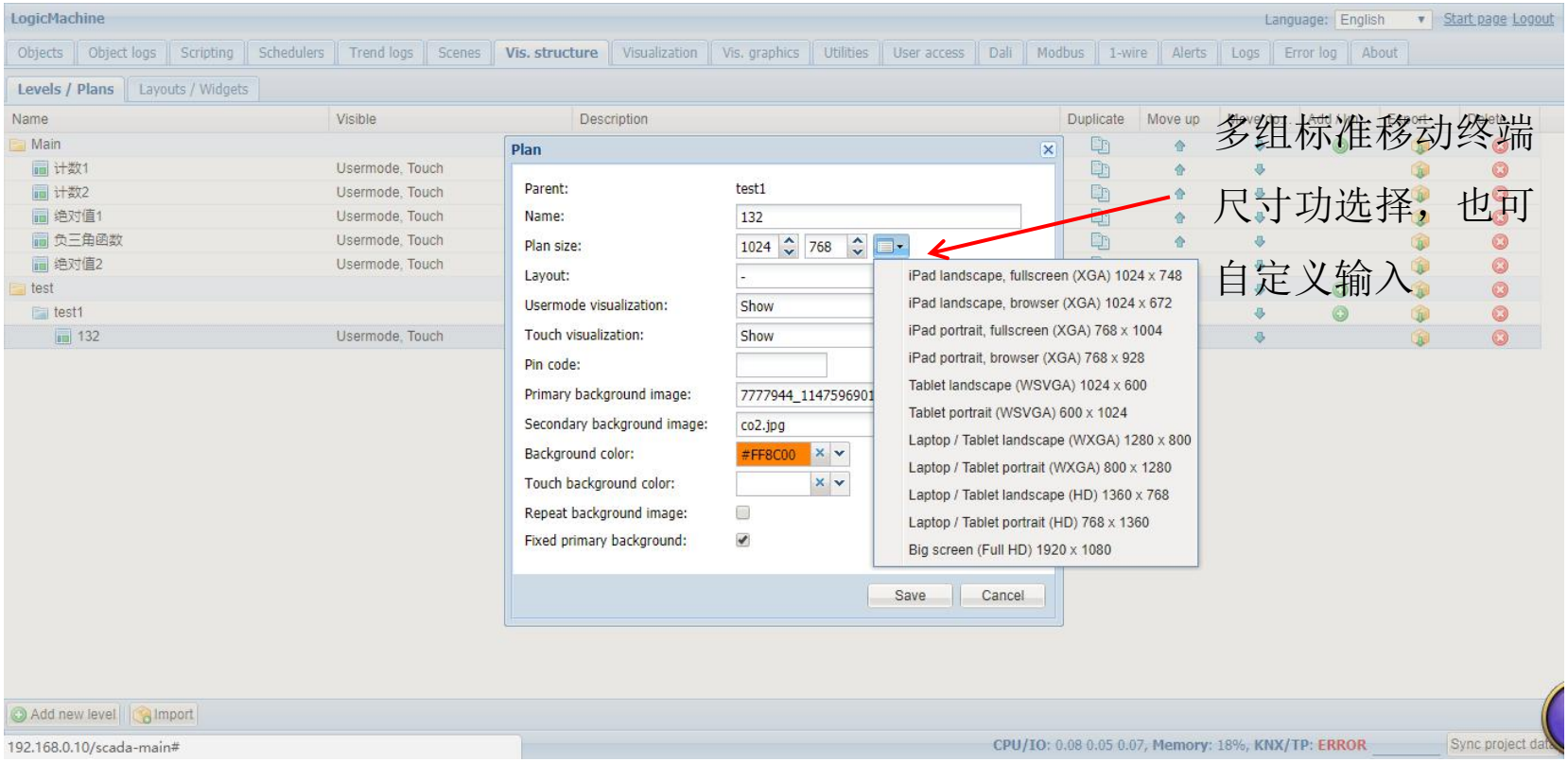


Logic Machine > Vis . structure > Levels / Plans



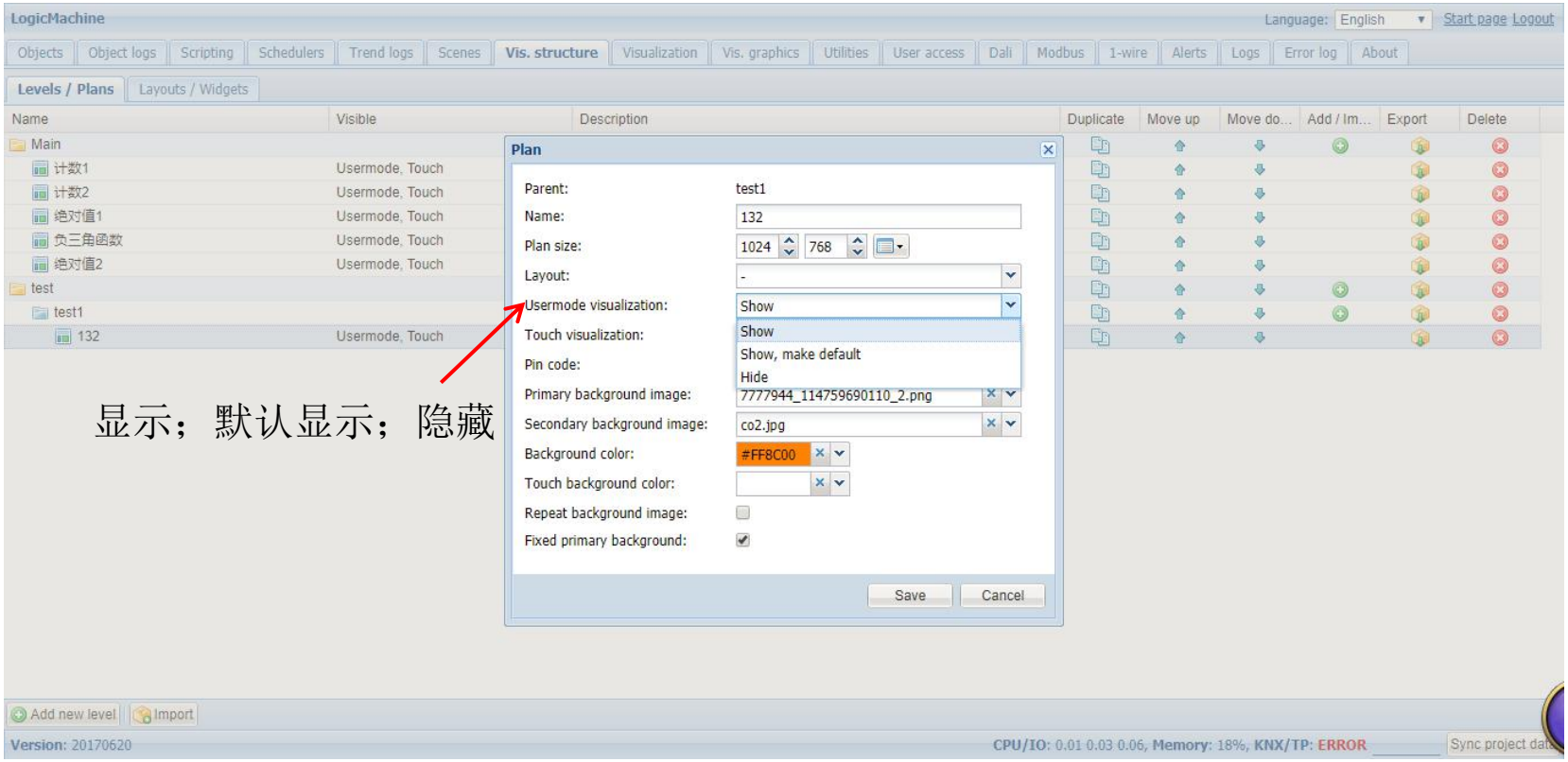
Logic Machine > Vis . structure > Levels / Plans

embedded automation

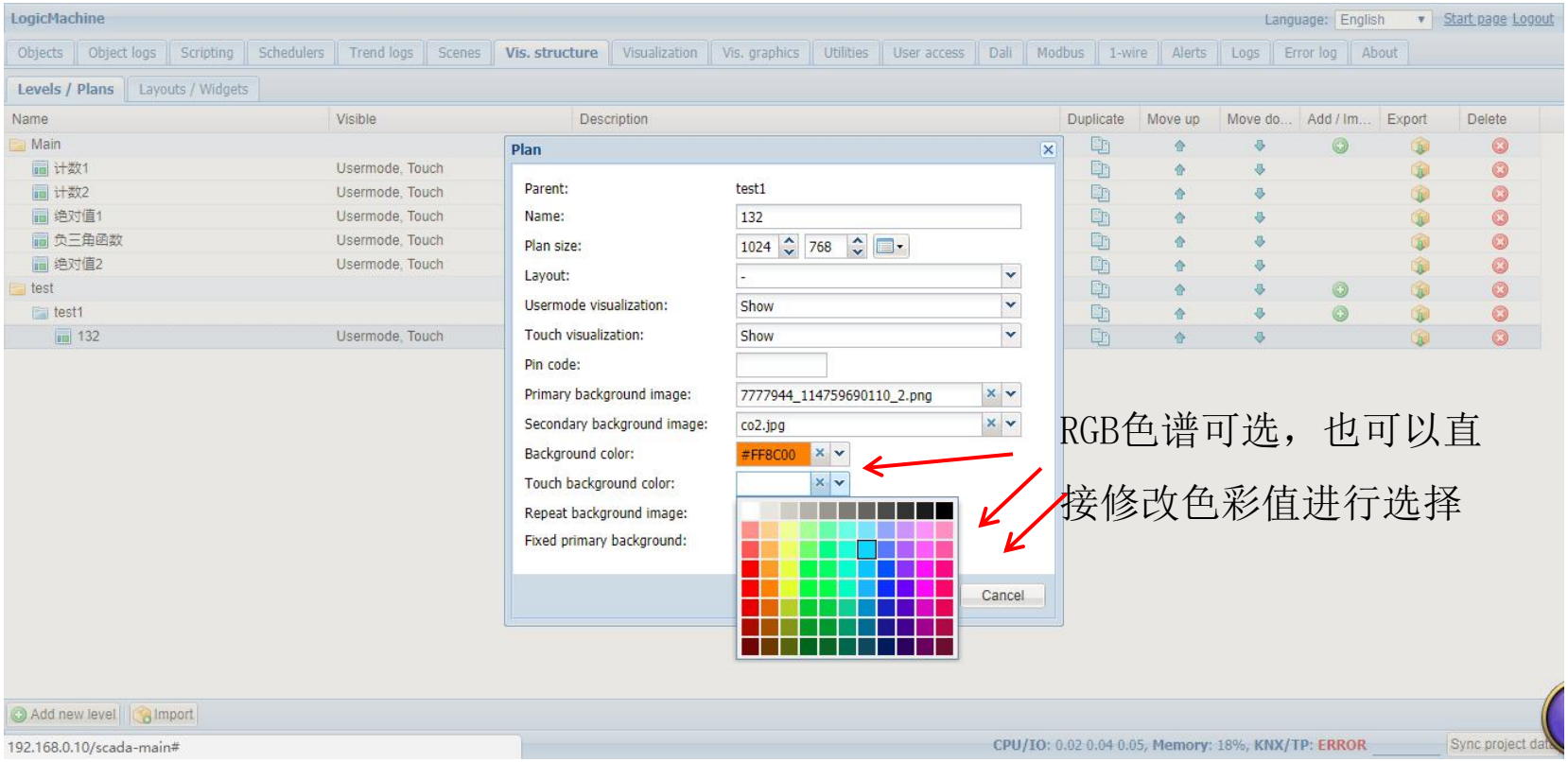


多组标准移动终端尺寸功选择，也可自定义输入

Logic Machine > Vis . structure > Levels / Plans

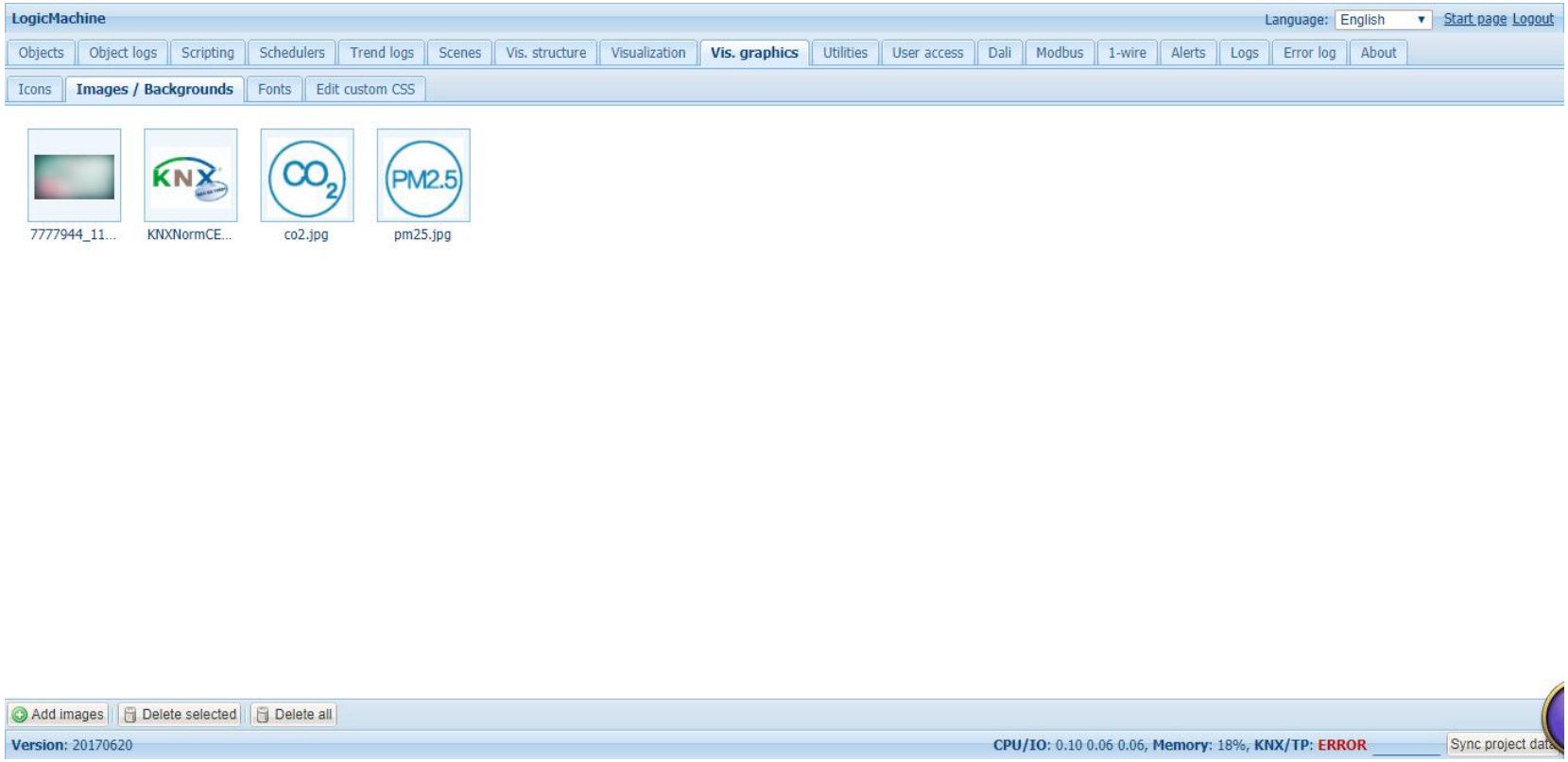


Logic Machine > Vis . structure > Levels / Plans

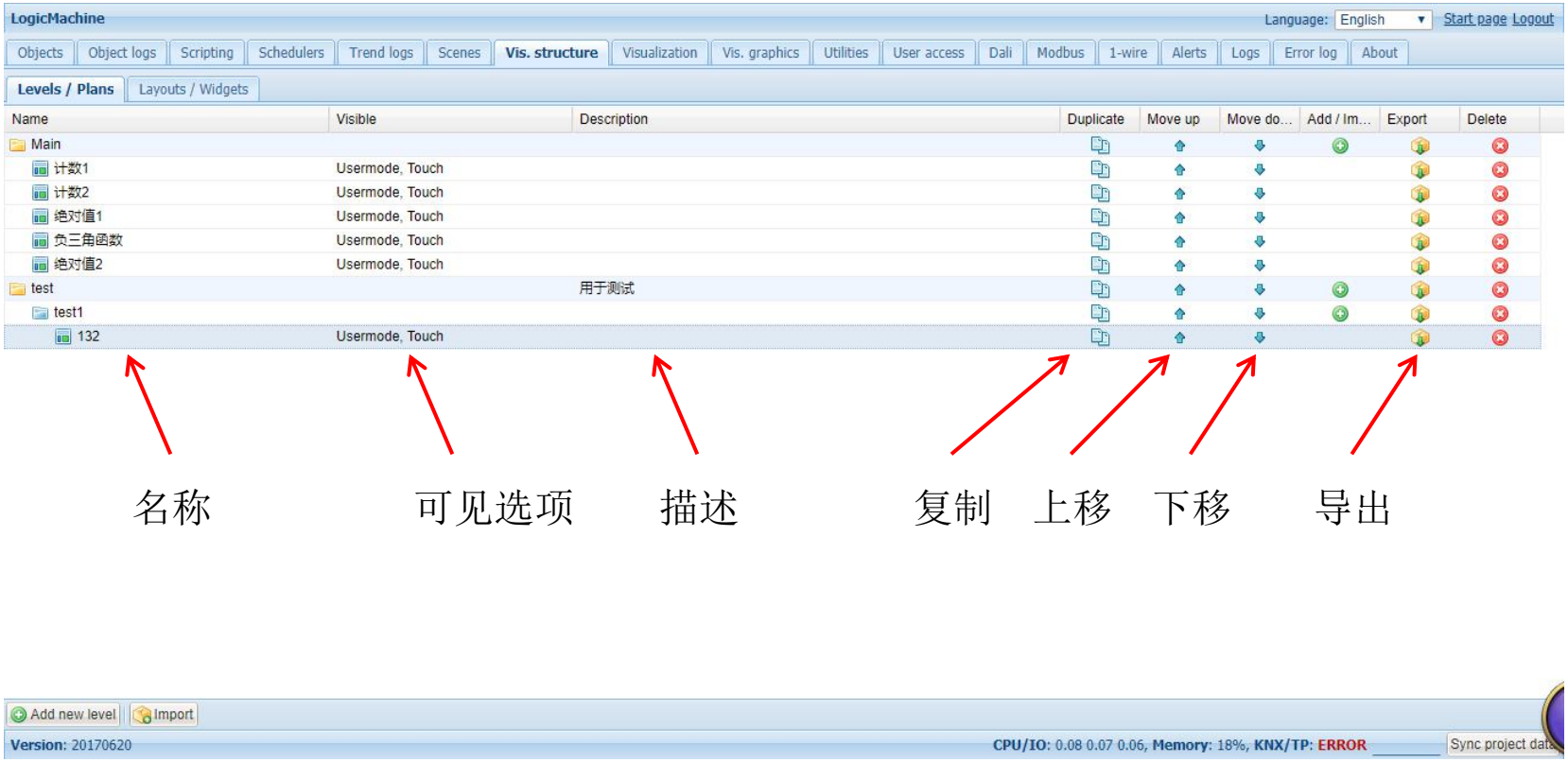


RGB色谱可选，也可以直接修改色彩值进行选择

Logic Machine > Vis . structure > Levels / Plans



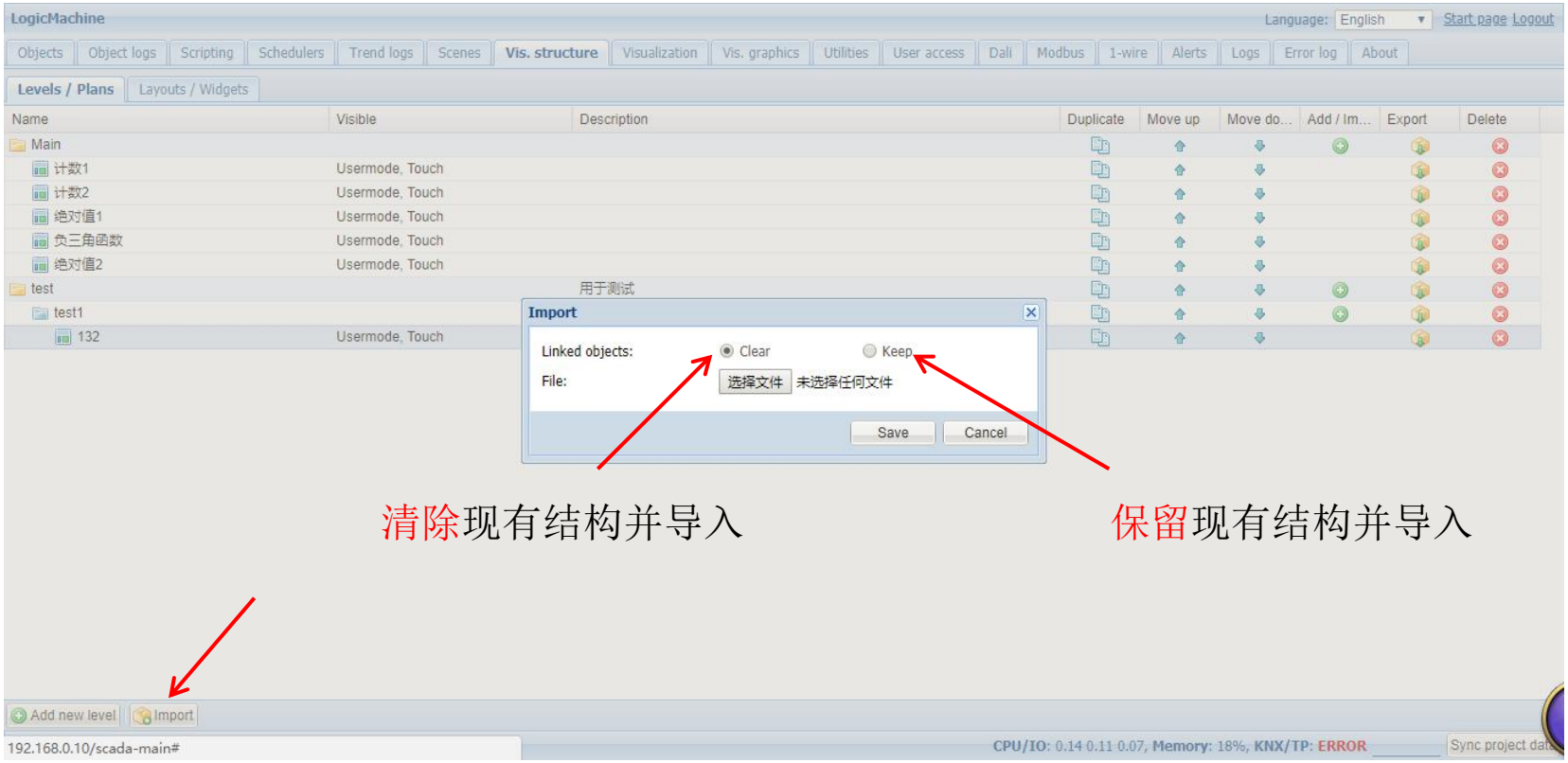
Logic Machine > Vis . structure > Levels / Plans



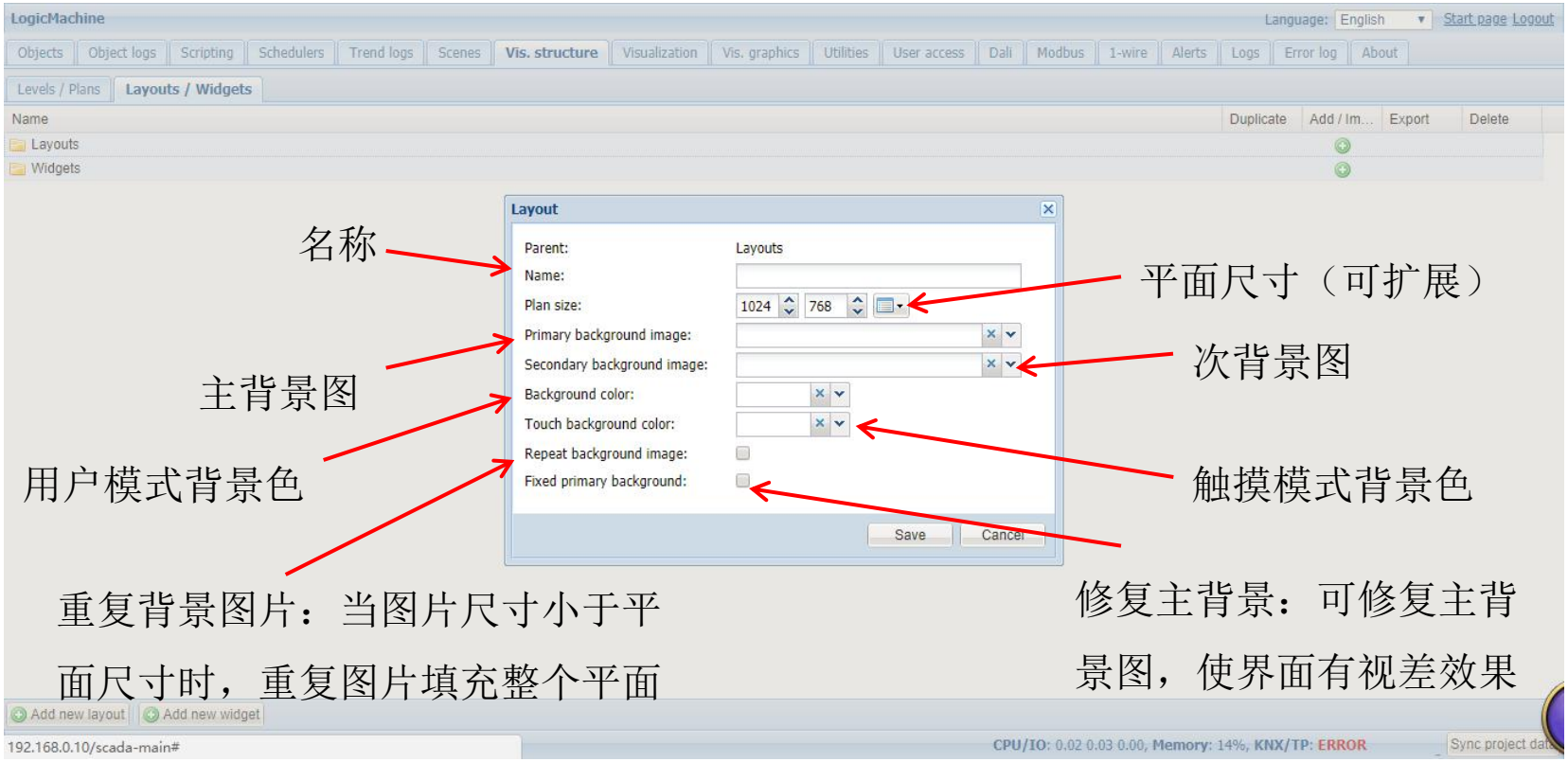

组织
新建文件夹
名称
修改日期
类型
大小
没有与搜索条件匹配的项。
快速访问
OneDrive
WPS云文档
此电脑
A360 Drive
视频
图片
文档
下载
音乐
桌面
Windows (C:)
新加卷 (D:)
新加卷 (E:)
新加卷 (F:)
网络
文件名(N): Vis-132-living-2018.03.14-11.44.tar
保存类型(T): WinRAR 压缩文件

.tar的文件后缀

Logic Machine > Vis . structure > Levels / Plans




LogicMachine
Language: English
Start page Logout
Objects
Object logs
Scripting
Schedulers
Trend logs
Scenes
Vis. structure
Visualization
Vis. graphics
Utilities
User access
Dali
Modbus
1-wire
Alerts
Logs
Error log
About
Levels / Plans
Layouts / Widgets
Name
Duplicate
Add / Im...
Export
Delete
Layouts
Widgets
Select an action
Add
Import
添加新的布局
导入
Add new layout
Add new widget
Version: 20170620
CPU/IO: 0.03 0.02 0.00, Memory: 13%, KNX/TP: ERROR
Sync project data


LogicMachine
Language: English
Start page Logout
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Object logs
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Trend logs
Scenes
Vis. structure
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Vis. graphics
Utilities
User access
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1-wire
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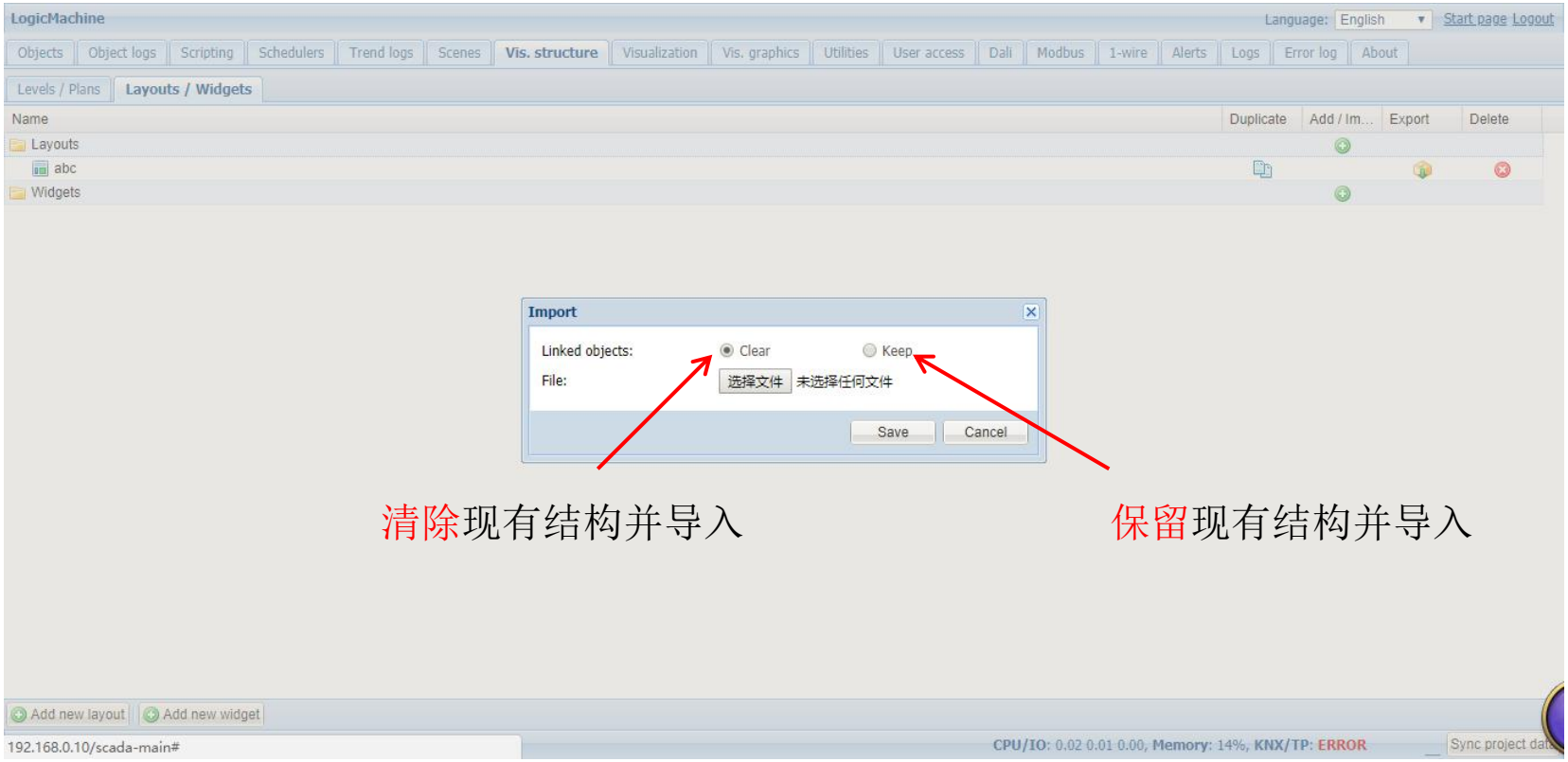
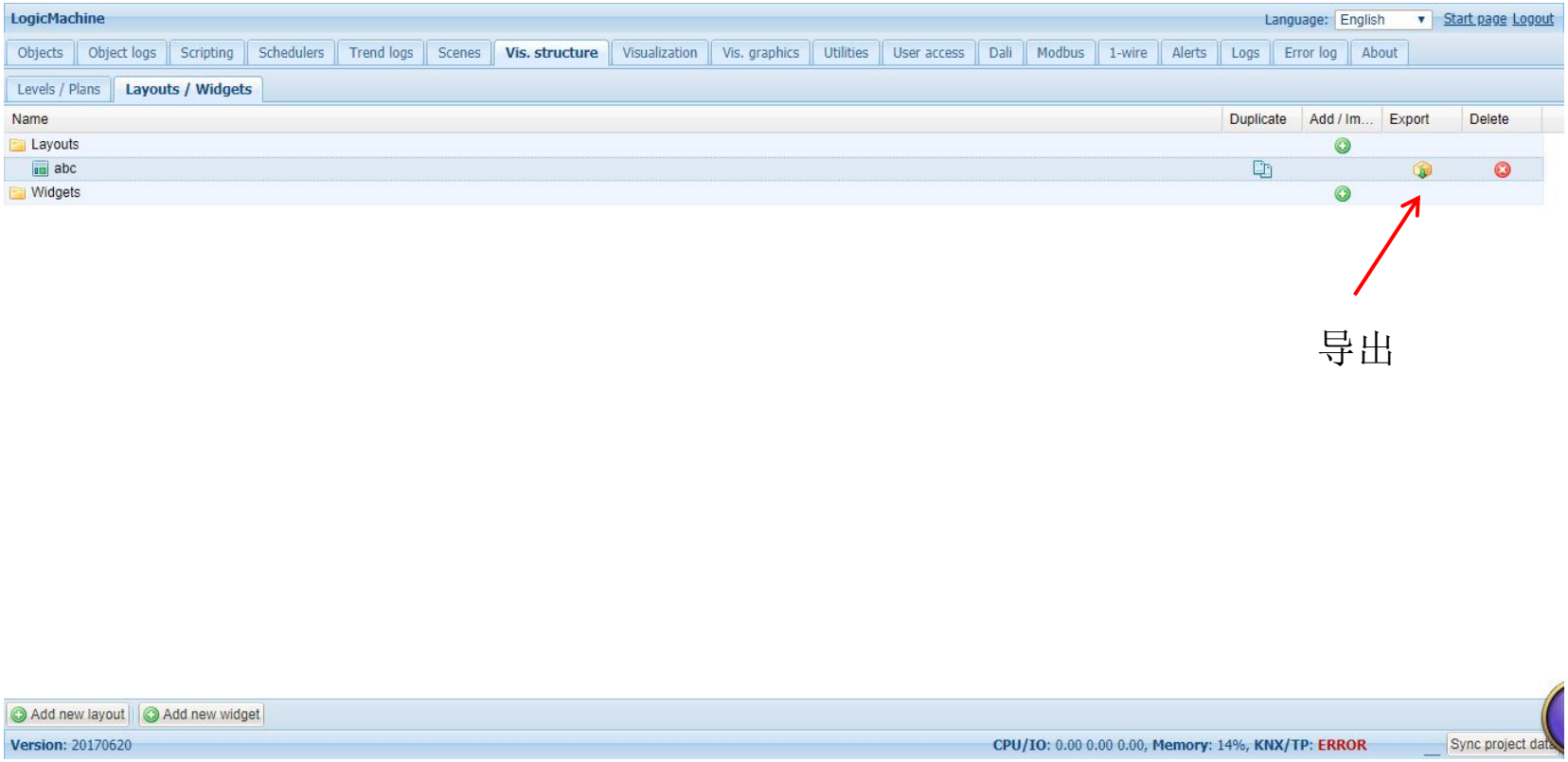
Logs
Error log
About
Levels / Plans
Layouts / Widgets
Name
Duplicate
Add / Im...
Export
Delete
Layouts
Widgets
Layout
Parent:
Layouts
Name:
Plan size:
1024
768
Primary background image:
Secondary background image:
Background color:
Touch background color:
Repeat background image:
Fixed primary background:
Save
Cancel
名称
主背景图
用户模式背景色
平面尺寸（可扩展）
次背景图
触摸模式背景色
重复背景图片：当图片尺寸小于平面尺寸时，重复图片填充整个平面
修复主背景：可修复主背景图，使界面有视差效果
Add new layout
Add new widget
192.168.0.10/scada-main#
CPU/IO: 0.02 0.03 0.00, Memory: 14%, KNX/TP: ERROR
Sync project data



清除现有结构并导入

保留现有结构并导入


LogicMachine
Language: English
Start page Logout
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Object logs
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Schedulers
Trend logs
Scenes
Vis. structure
Visualization
Vis. graphics
Utilities
User access
Dali
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1-wire
Alerts
Logs
Error log
About
Levels / Plans
Layouts / Widgets
Name
Duplicate
Add / Im...
Export
Delete
Layouts
abc
Widgets
导出
Add new layout
Add new widget
Version: 20170620
CPU/IO: 0.00 0.00 0.00, Memory: 14%, KNX/TP: ERROR
Sync project data


组织
新建文件夹
名称
修改日期
类型
大小
没有与搜索条件匹配的项。
快速访问
OneDrive
WPS云文档
此电脑
A360 Drive
视频
图片
文档
下载
音乐
桌面
Windows (C:)
新加卷 (D:)
新加卷 (E:)
新加卷 (F:)
网络
文件名(N): Vis-abc-stephen_home-2018.03.14-16.58.tar
保存类型(T): WinRAR 压缩文件

.tar的文件后缀


LogicMachine
Language: English
Start page Logout
Objects
Object logs
Scripting
Schedulers
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Vis. structure
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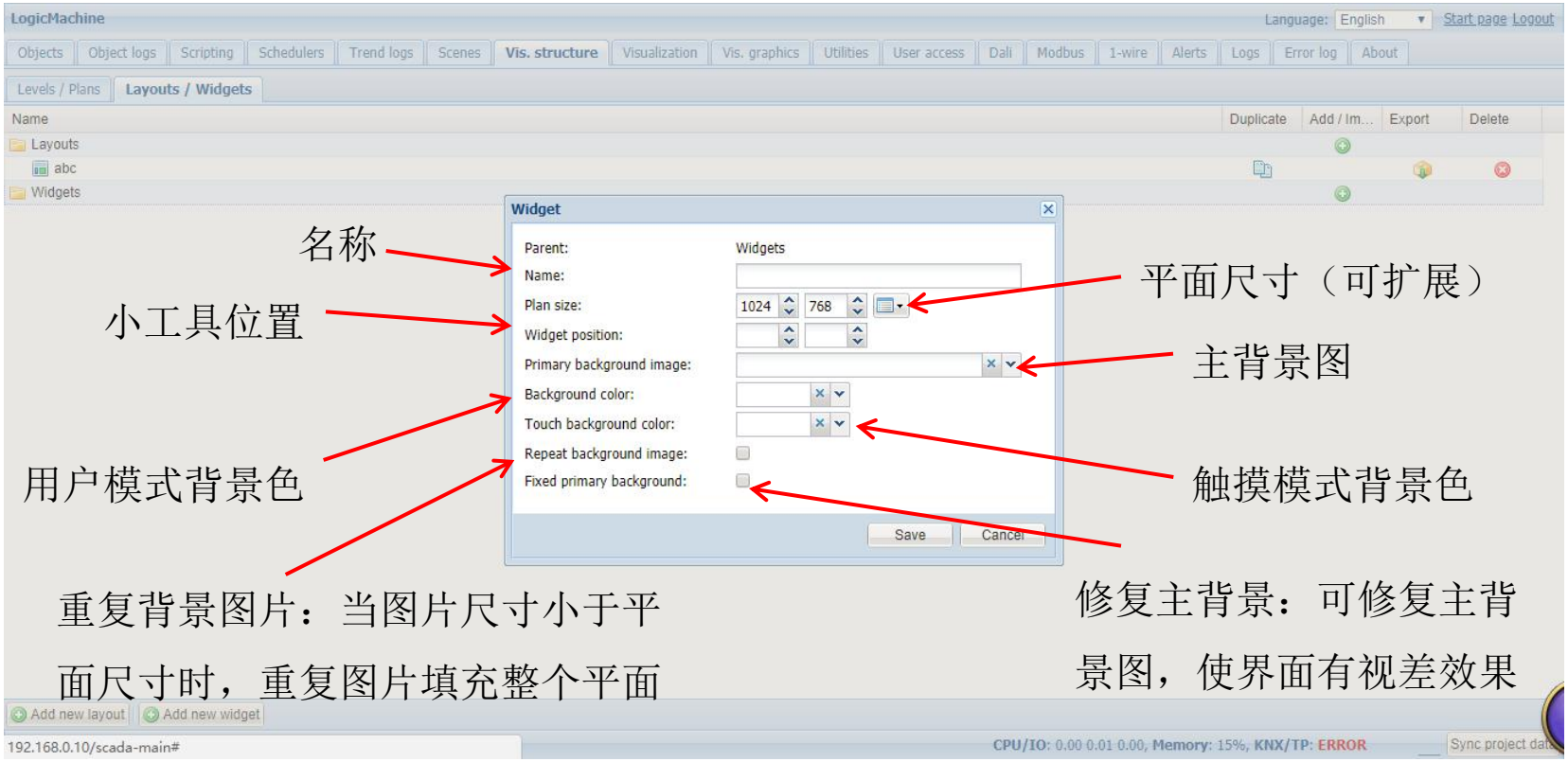
Modbus
1-wire
Alerts
Logs
Error log
About
Levels / Plans
Layouts / Widgets
Name
Duplicate
Add / Im...
Export
Delete
Layouts
abc
Widgets
Select an action
Add
Import
添加新的小工具
导入
Add new layout
Add new widget
192.168.0.10/scada-main#
CPU/IO: 0.04 0.02 0.00, Memory: 14%, KNX/TP: ERROR
Sync project data


LogicMachine
Language: English
Start page Logout
Objects
Object logs
Scripting
Schedulers
Trend logs
Scenes
Vis. structure
Visualization
Vis. graphics
Utilities
User access
Dali
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Alerts
Logs
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Name
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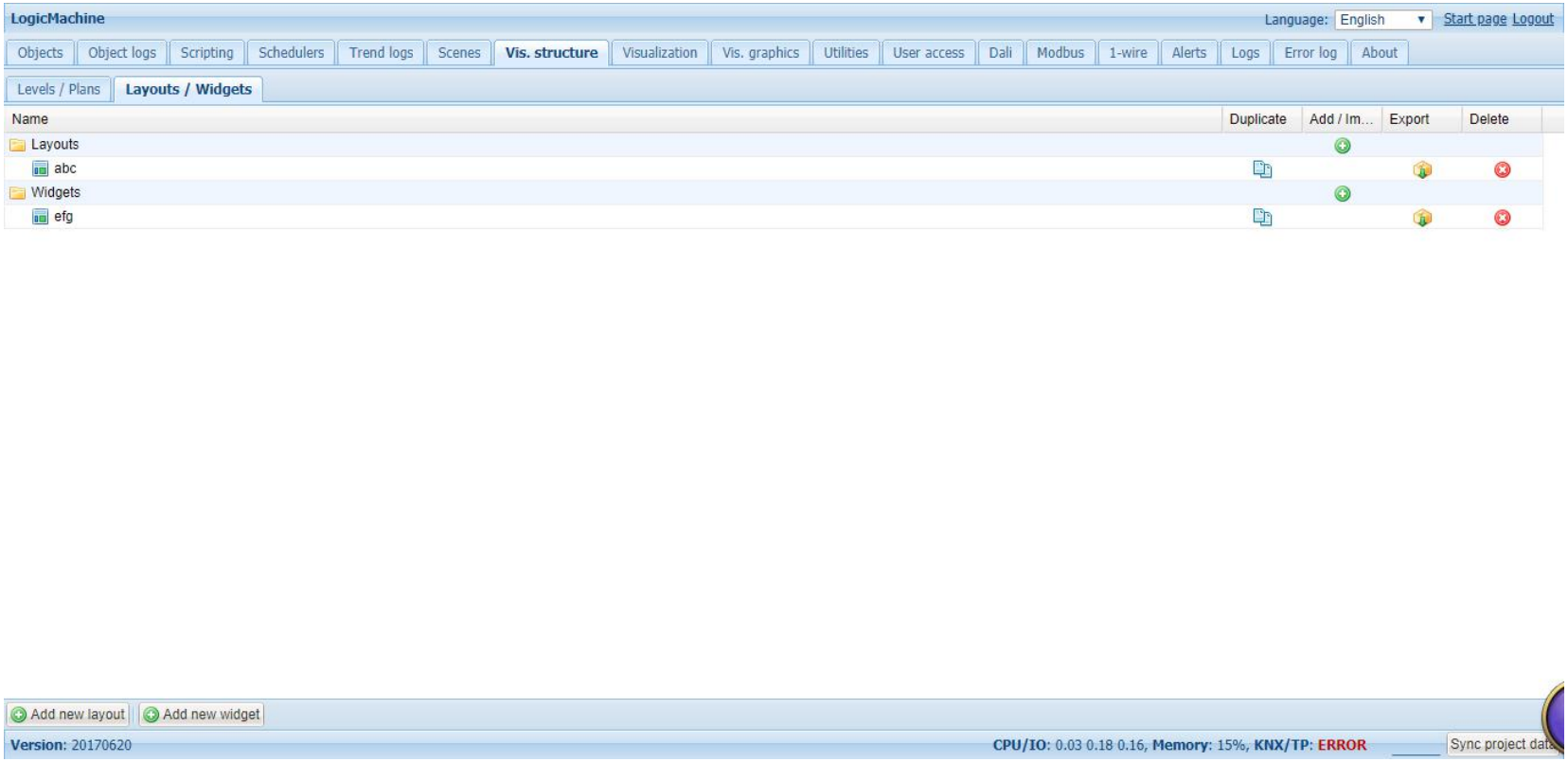
Add / Im...
Export
Delete
Layouts
abc
Widgets
Widget
Parent:
Widgets
Name:
Plan size:
1024
768
Widget position:
Primary background image:
Background color:
Touch background color:
Repeat background image:
Fixed primary background:
Save
Cancel
名称
小工具位置
用户模式背景色
重复背景图片：当图片尺寸小于平面尺寸时，重复图片填充整个平面
平面尺寸（可扩展）
主背景图
触摸模式背景色
修复主背景：可修复主背景图，使界面有视差效果
Add new layout
Add new widget
192.168.0.10/scada-main#
CPU/IO: 0.00 0.01 0.00, Memory: 15%, KNX/TP: ERROR
Sync project data

Logic Machine > Vis . structure > Layouts / Widgets

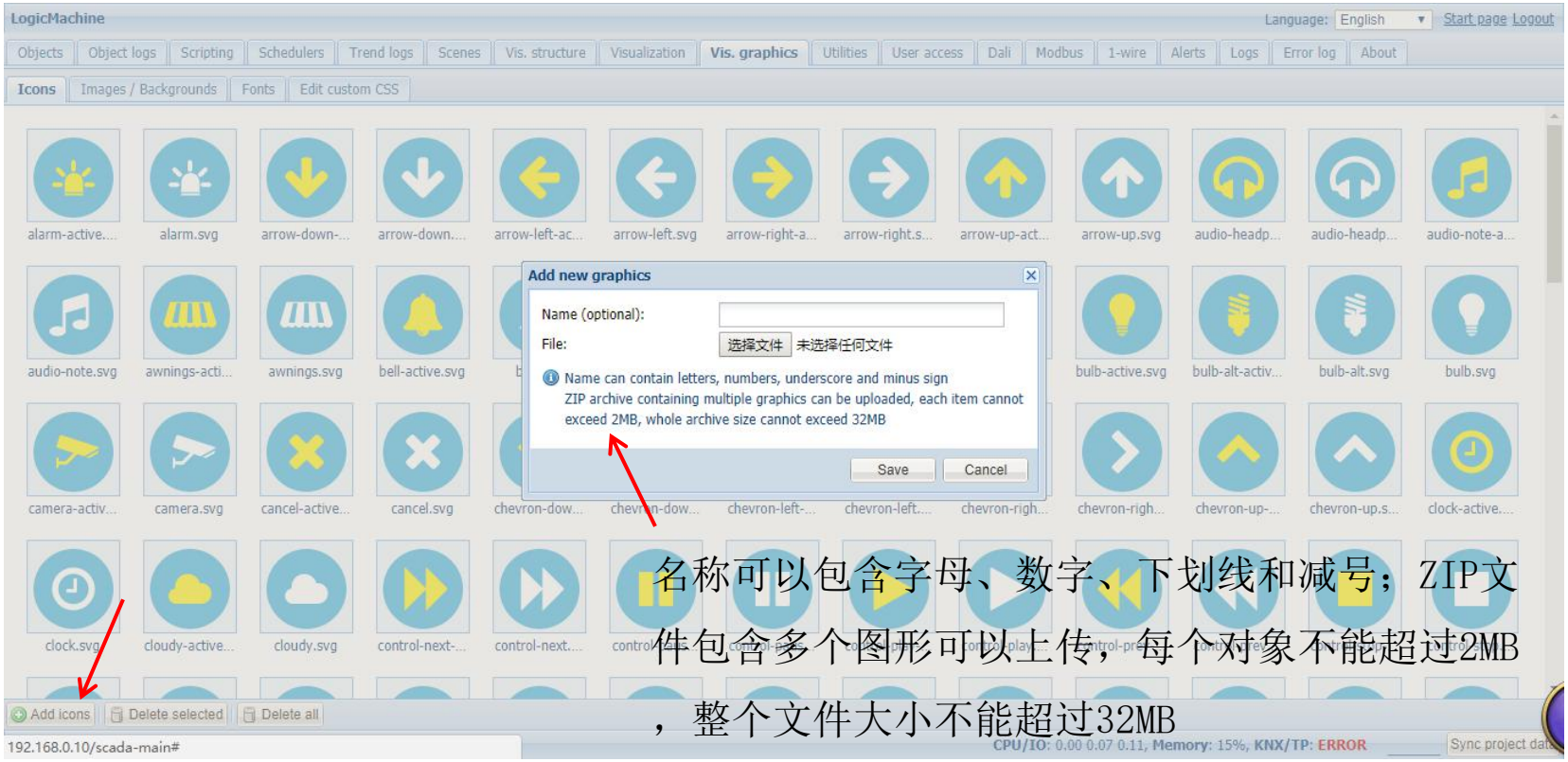


Logic Machine > Vis . graphics

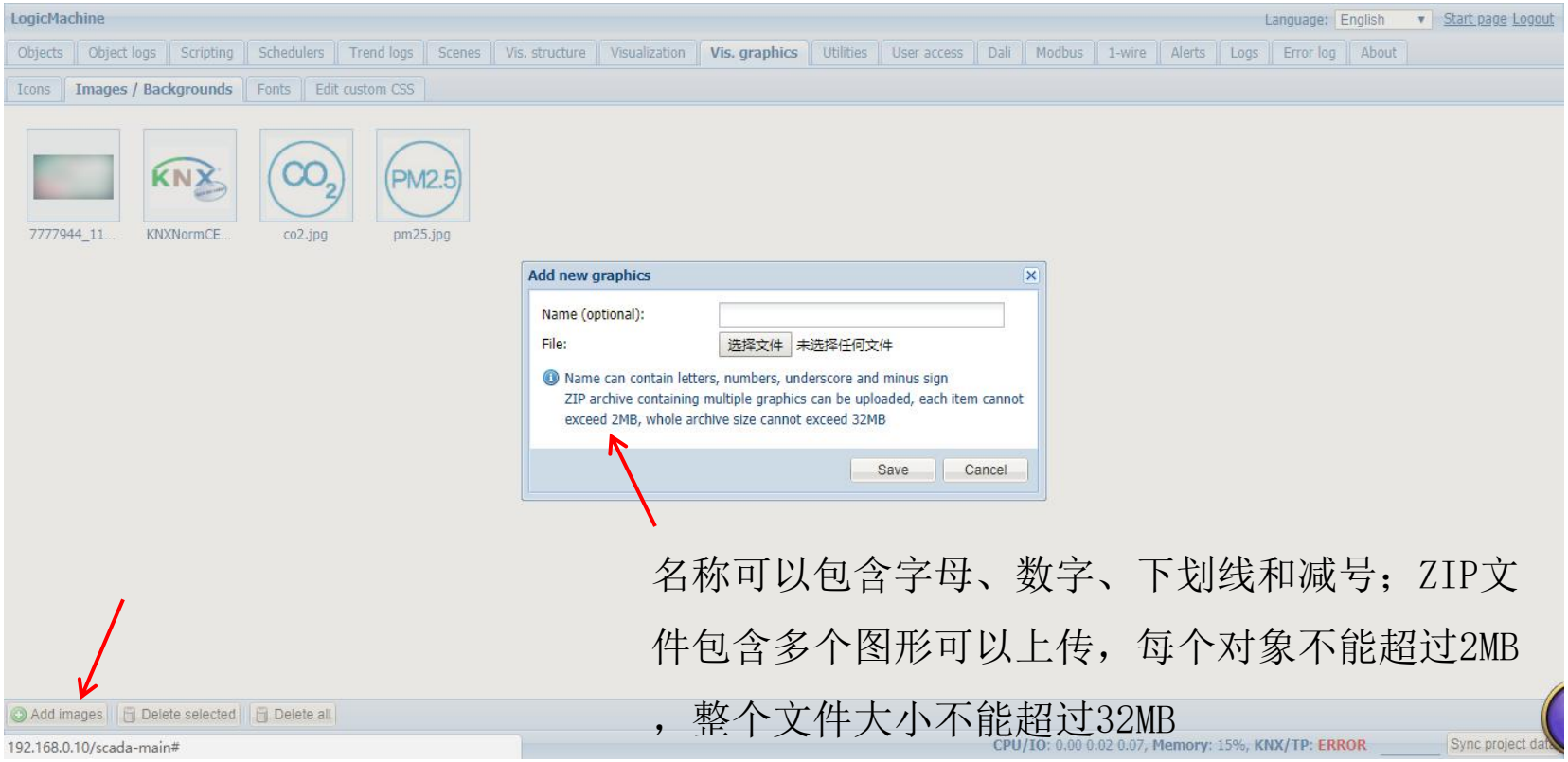
embedded automation

图标文件推荐SVG格式，便于浏览器的加载

Logic Machine > Vis . graphics > Icons

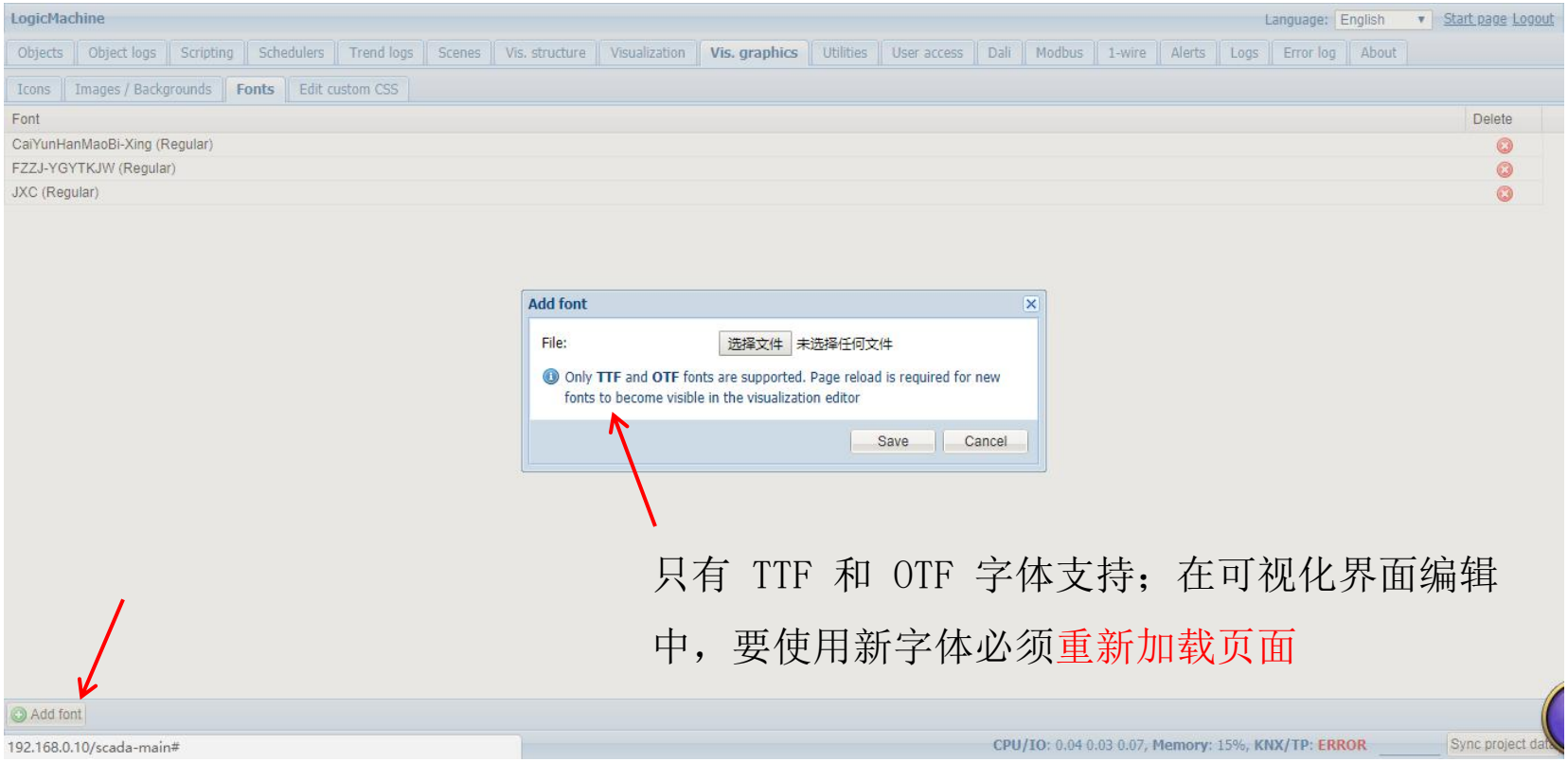


名称可以包含字母、数字、下划线和减号；ZIP文件包含多个图形可以上传，每个对象不能超过2MB，整个文件大小不能超过32MB

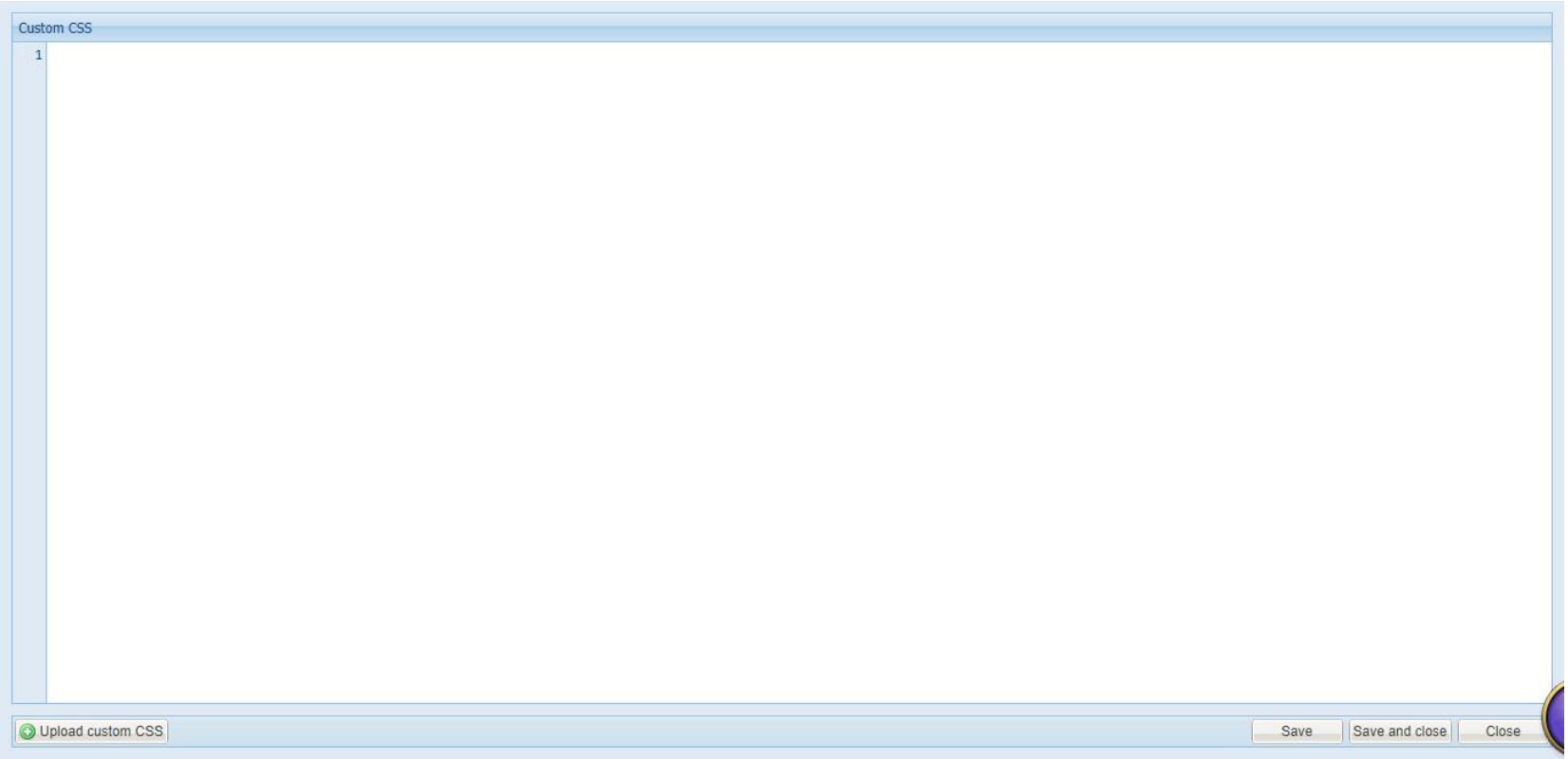


名称可以包含字母、数字、下划线和减号；ZIP文件包含多个图形可以上传，每个对象不能超过2MB，整个文件大小不能超过32MB

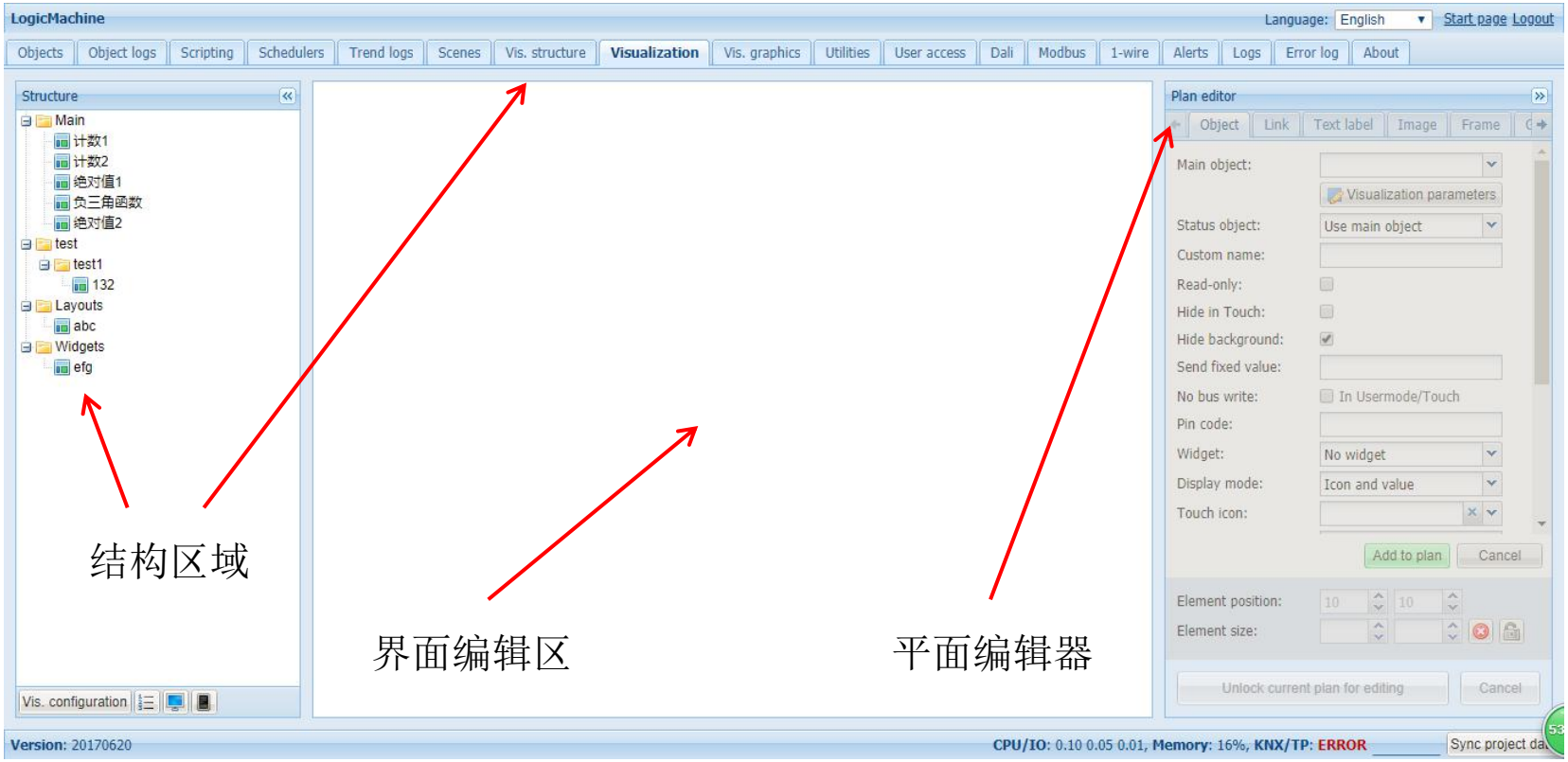
Logic Machine > Vis . graphics > Fonts



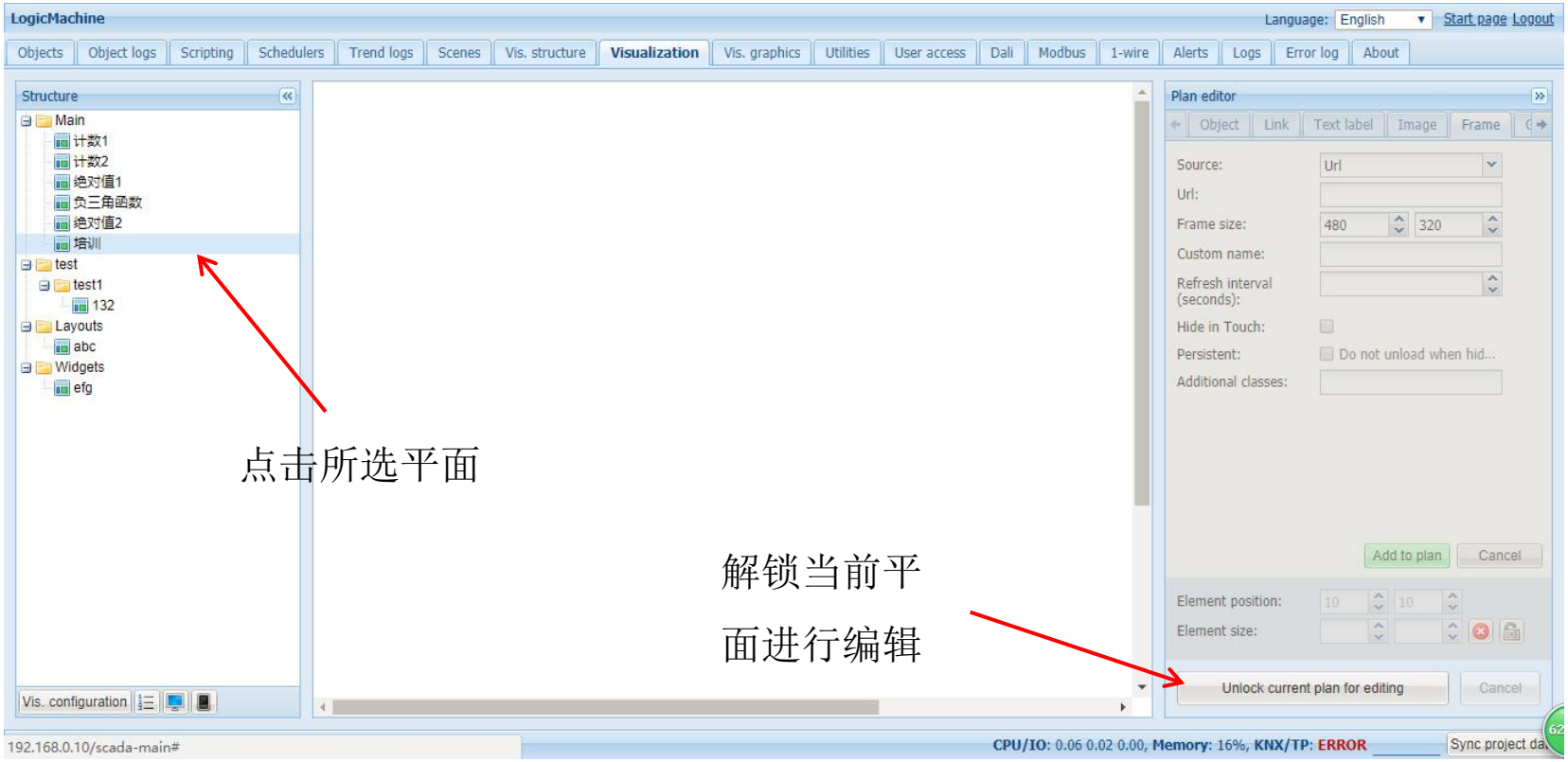
只有 TTF 和 OTF 字体支持；在可视化界面编辑中，要使用新字体必须重新加载页面


Custom CSS
1
Upload custom CSS
Save
Save and close
Close

Logic Machine > Visualization



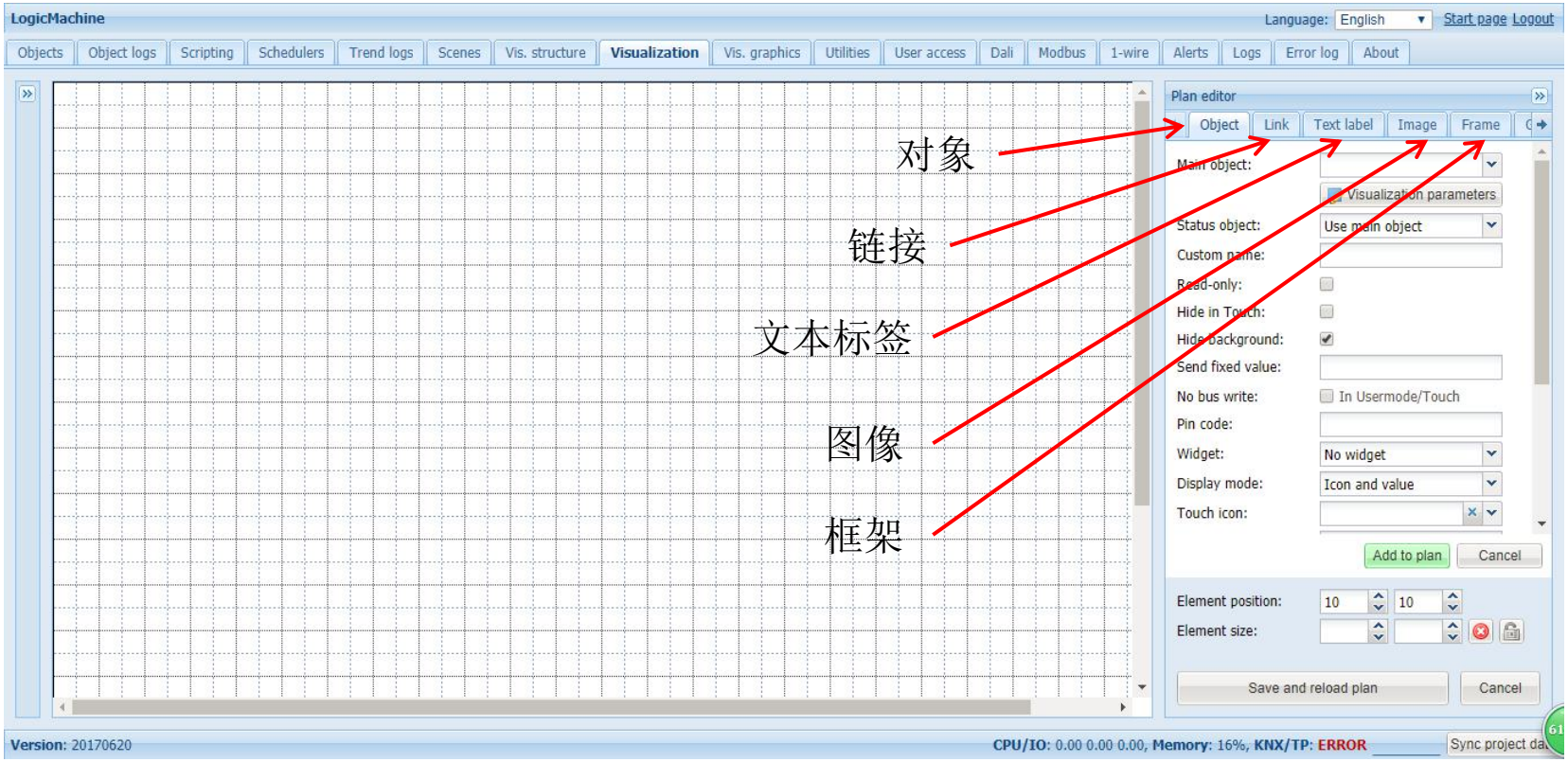
Logic Machine > Visualization



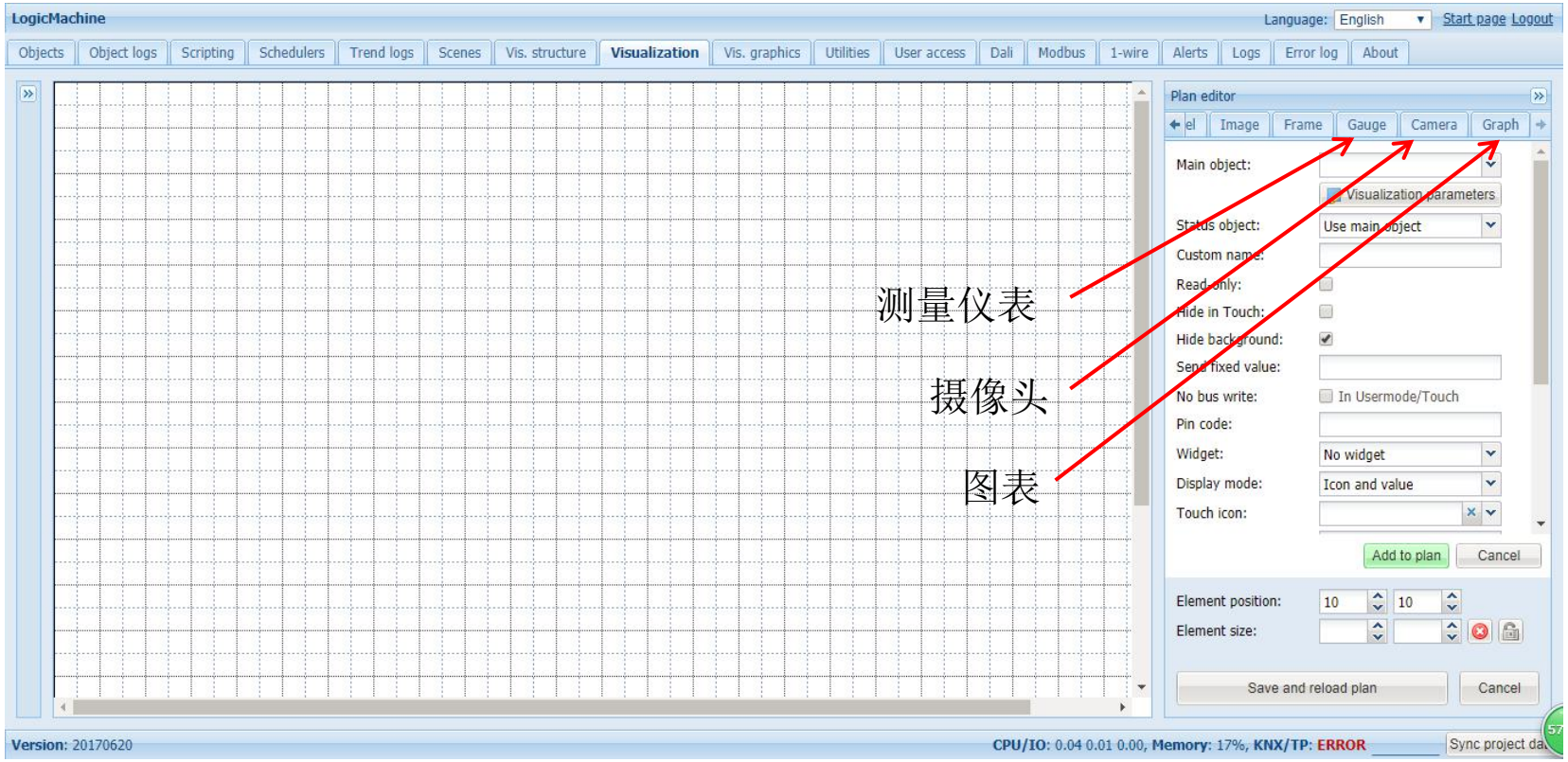
点击所选平面

解锁当前平面进行编辑

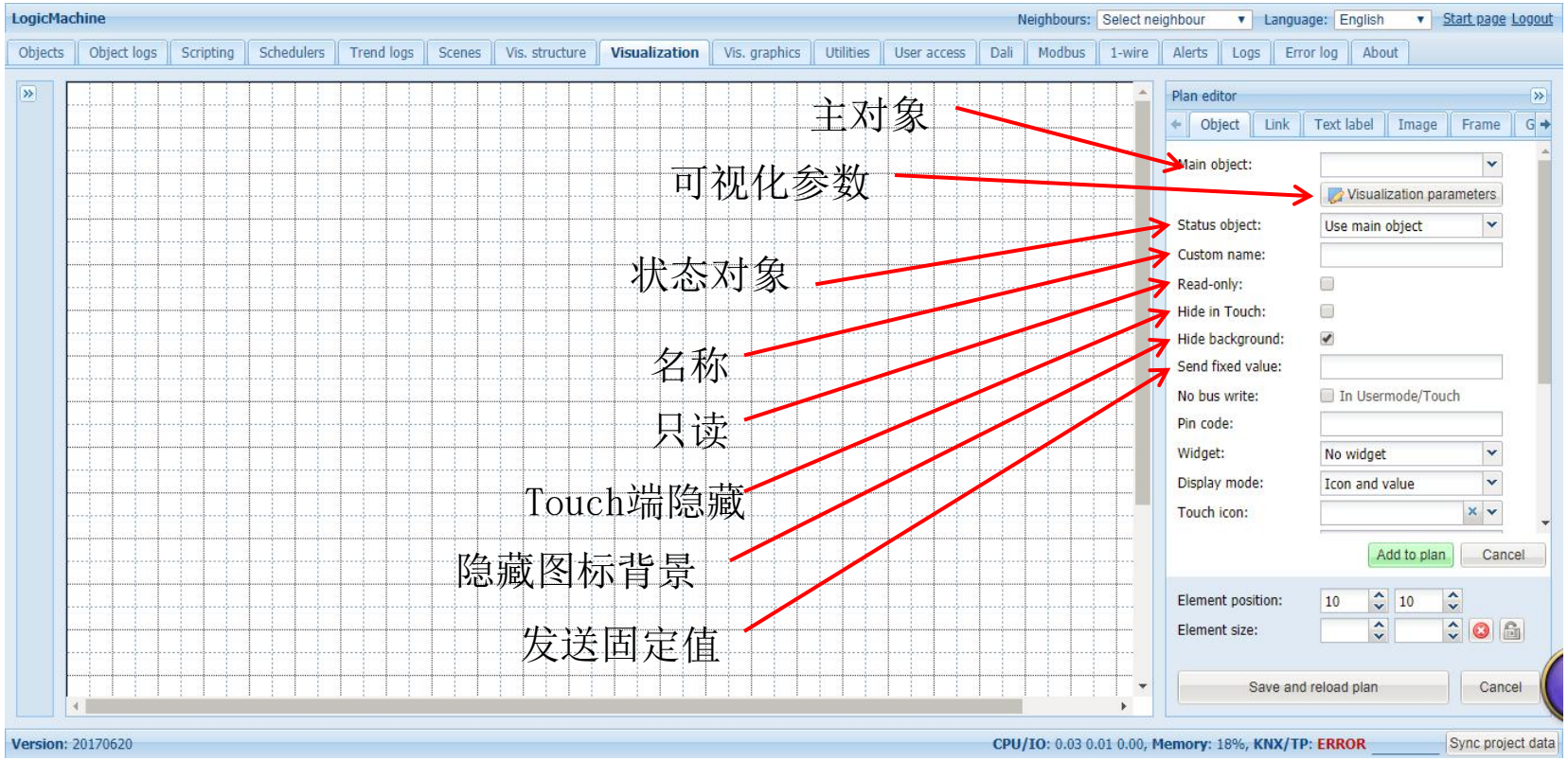
Logic Machine > Visualization



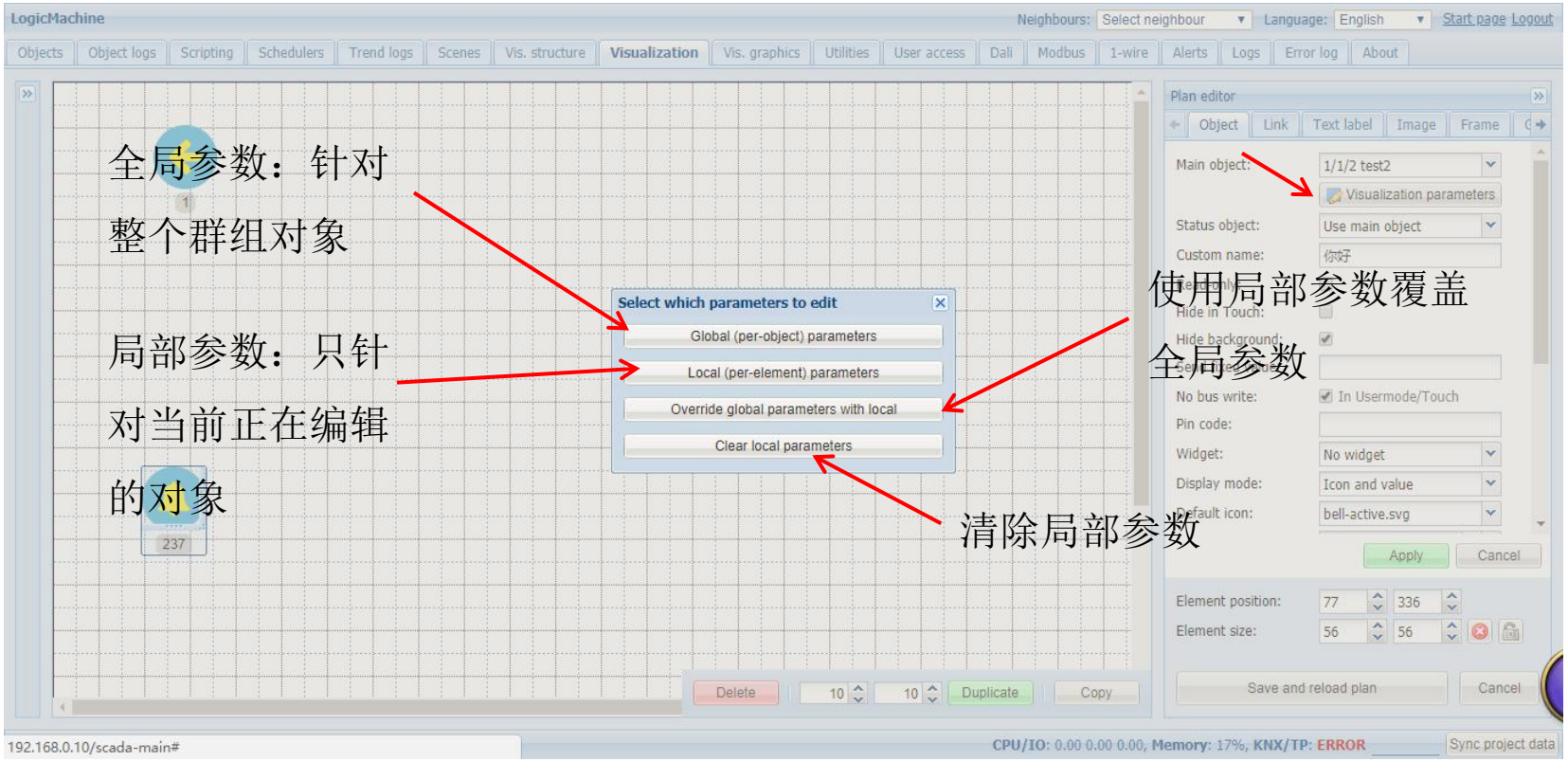
Logic Machine > Visualization



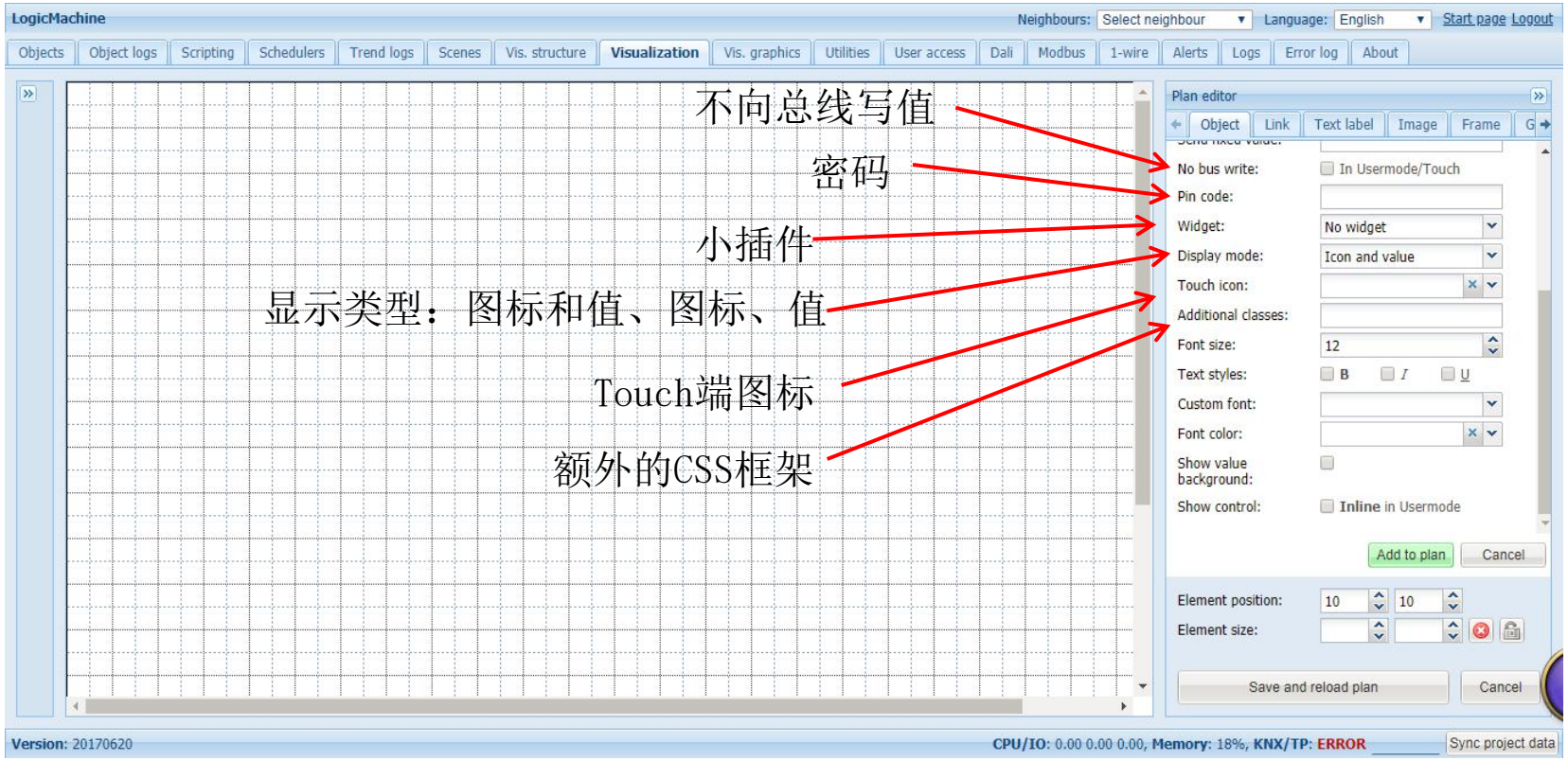
Logic Machine > Visualization > Object



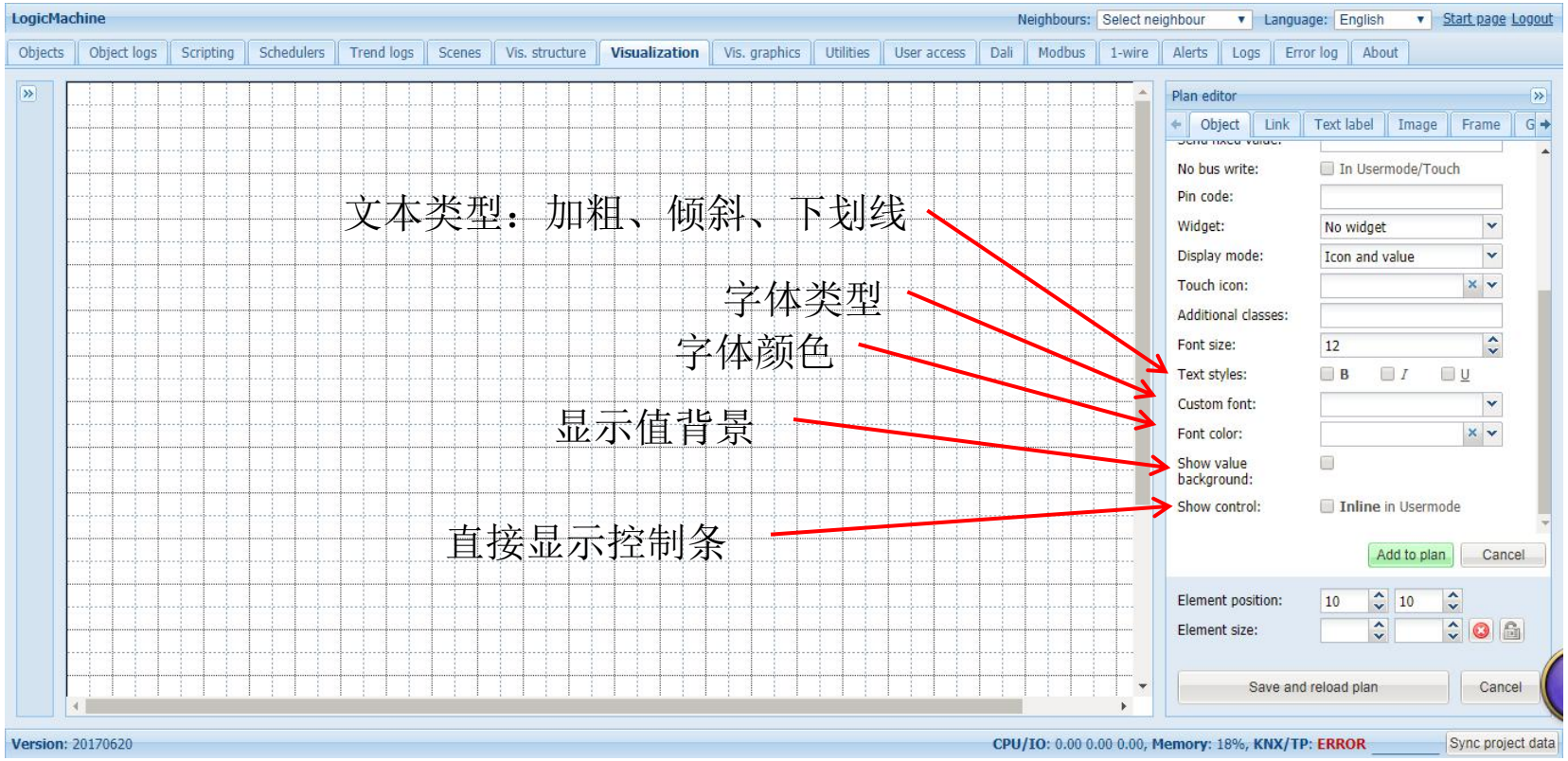
Logic Machine > Visualization > Object



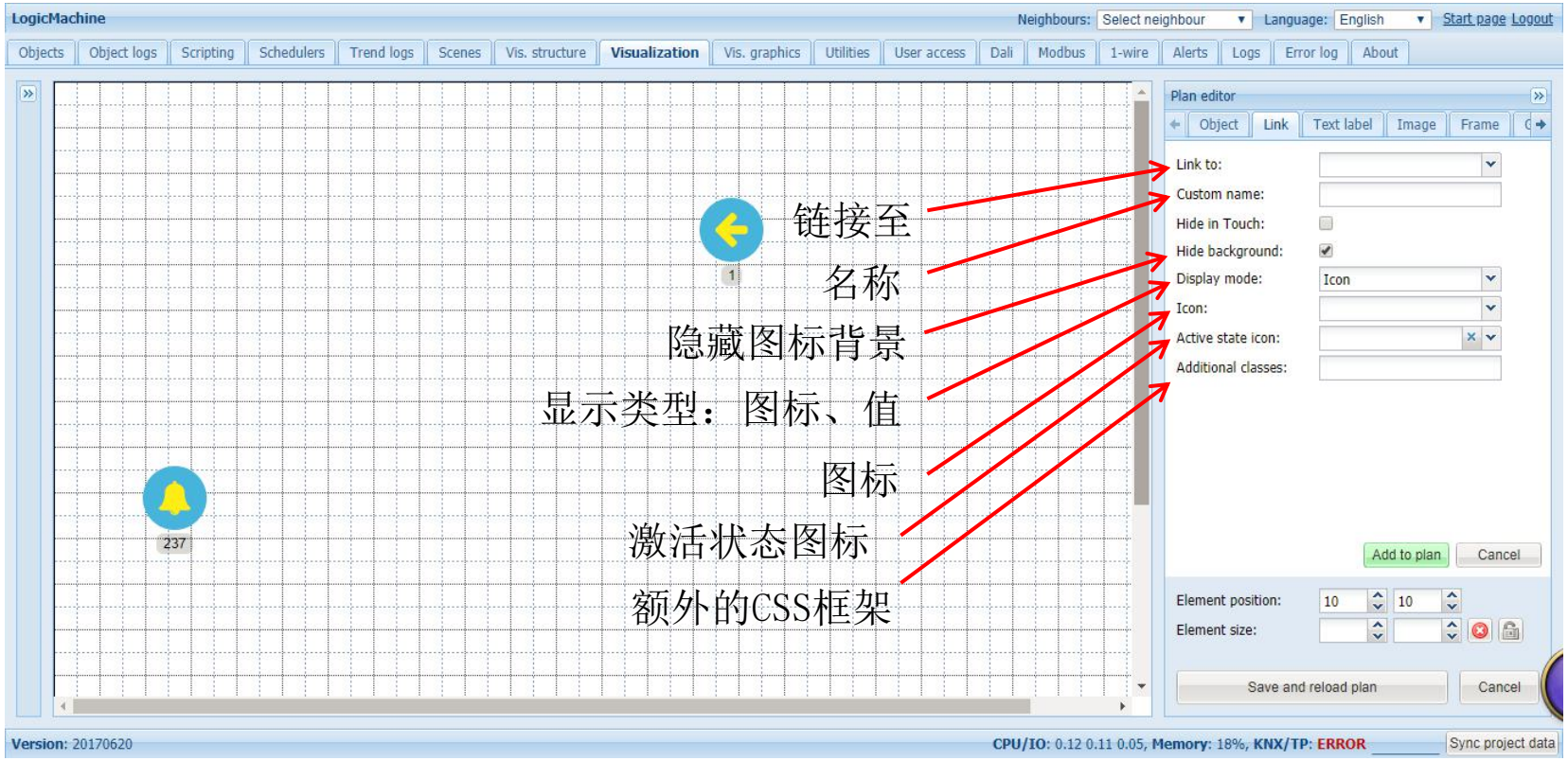
embedded automation



Logic Machine > Visualization > Object

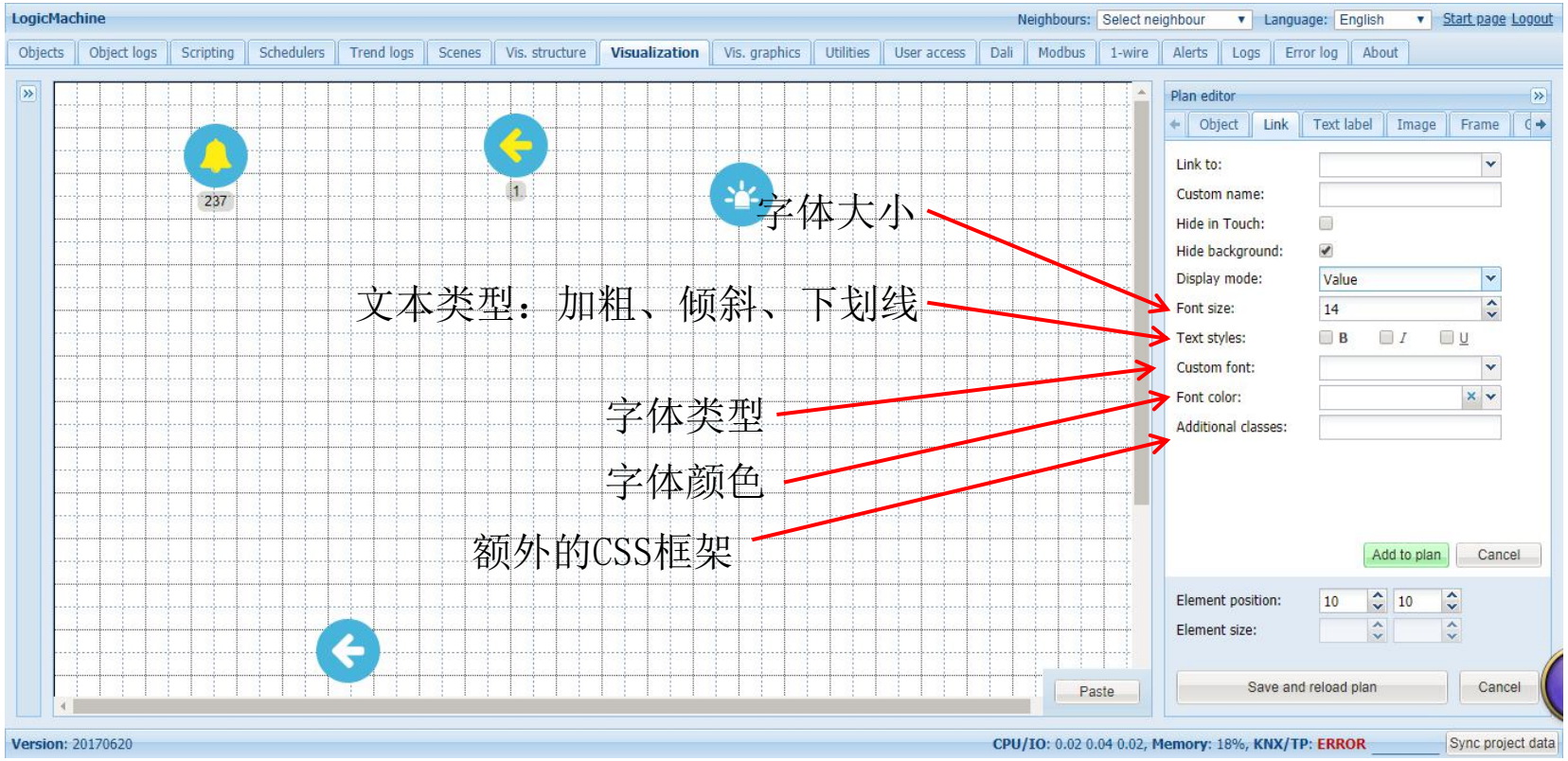


Logic Machine > Visualization > Link

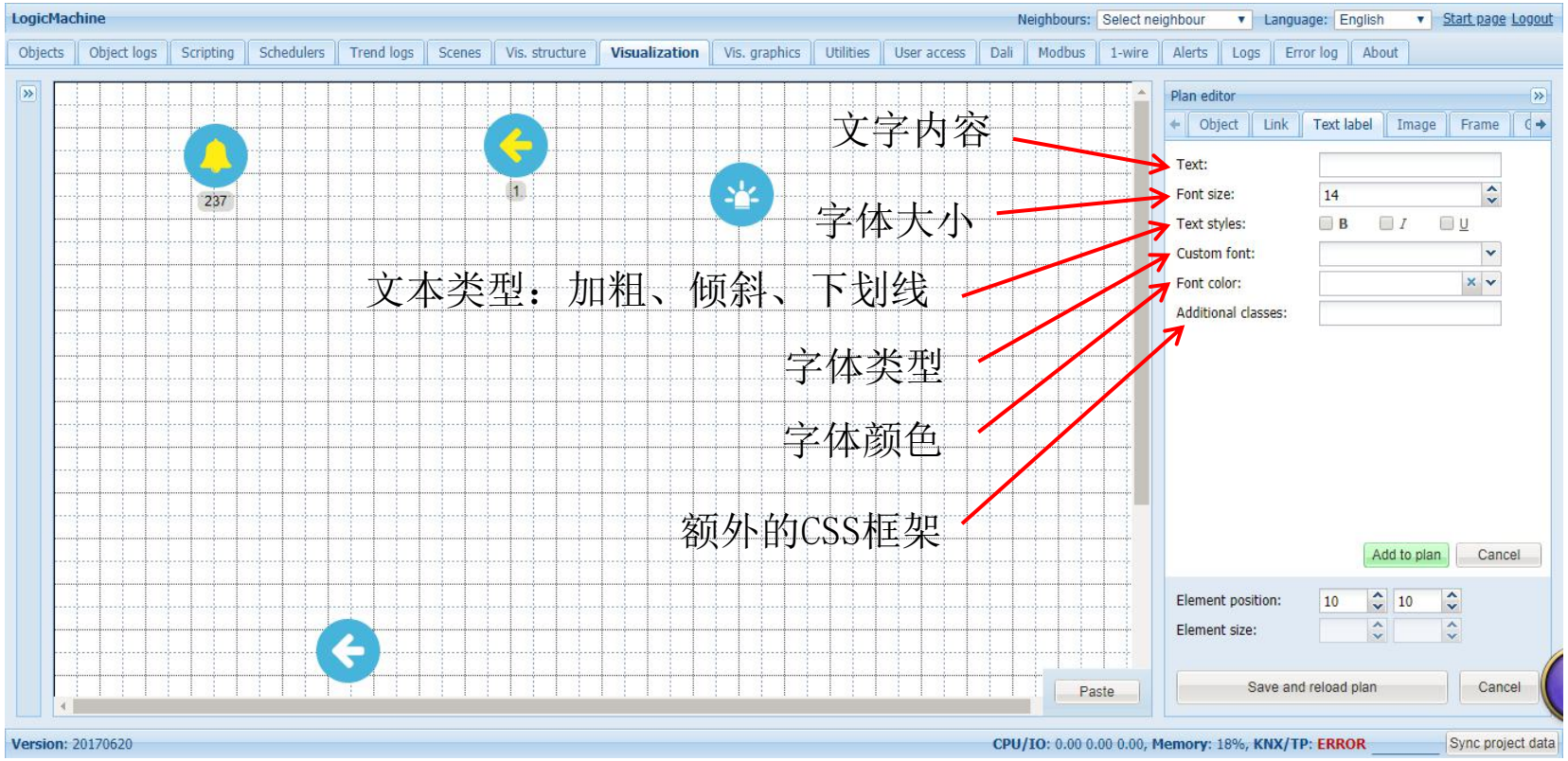


Logic Machine > Visualization > Link

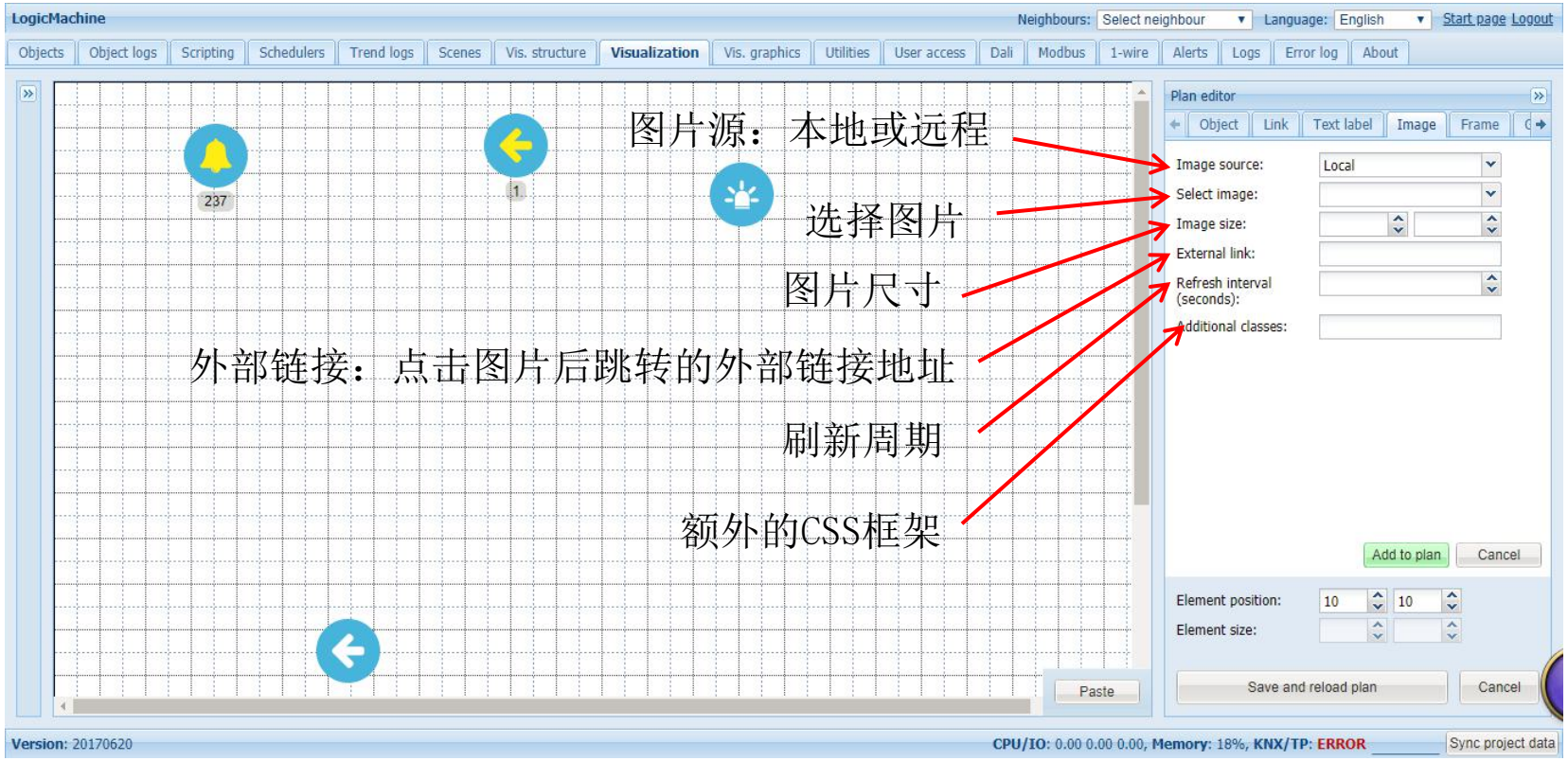
embedded automation



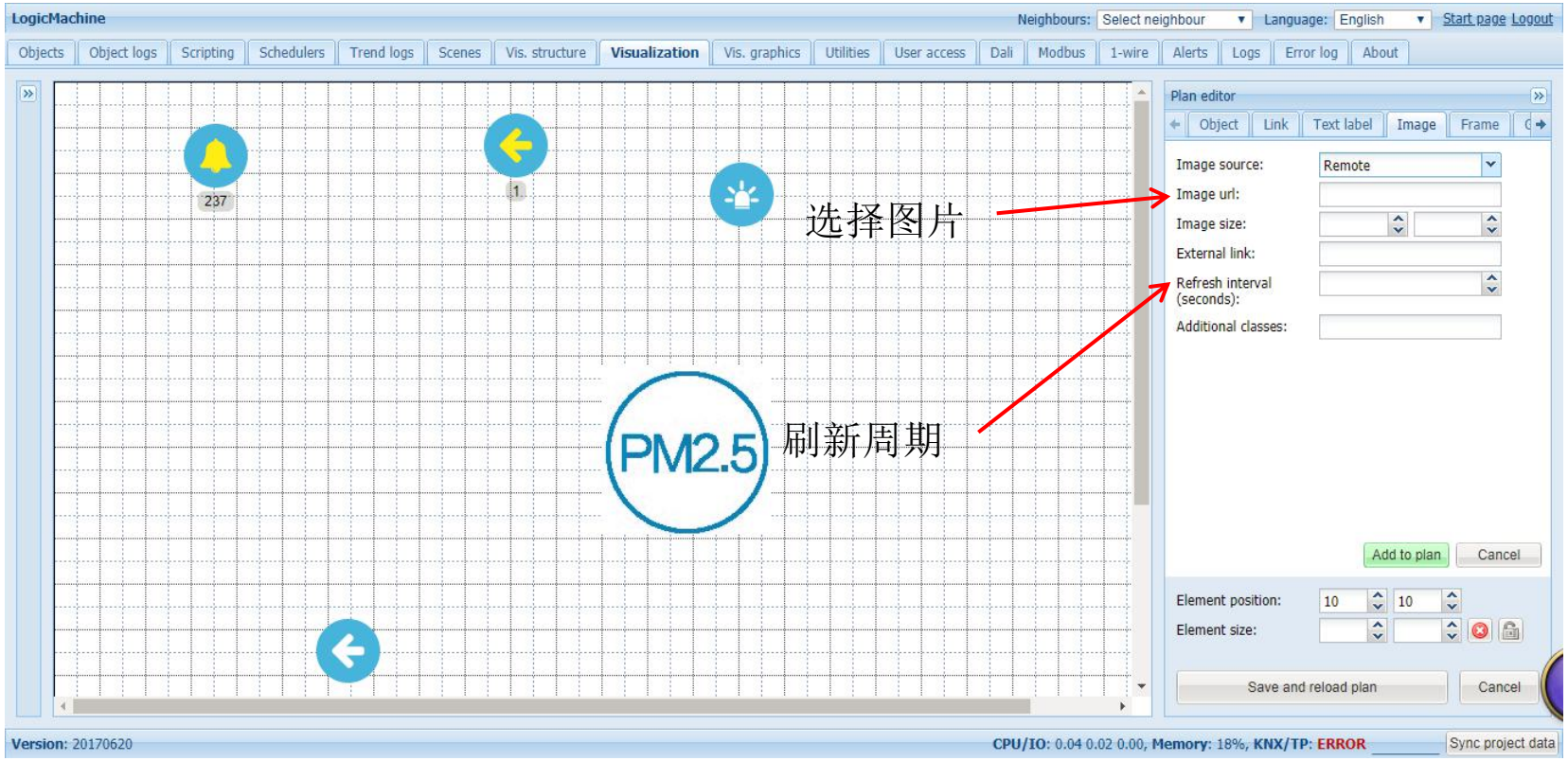
Logic Machine > Visualization > Text label



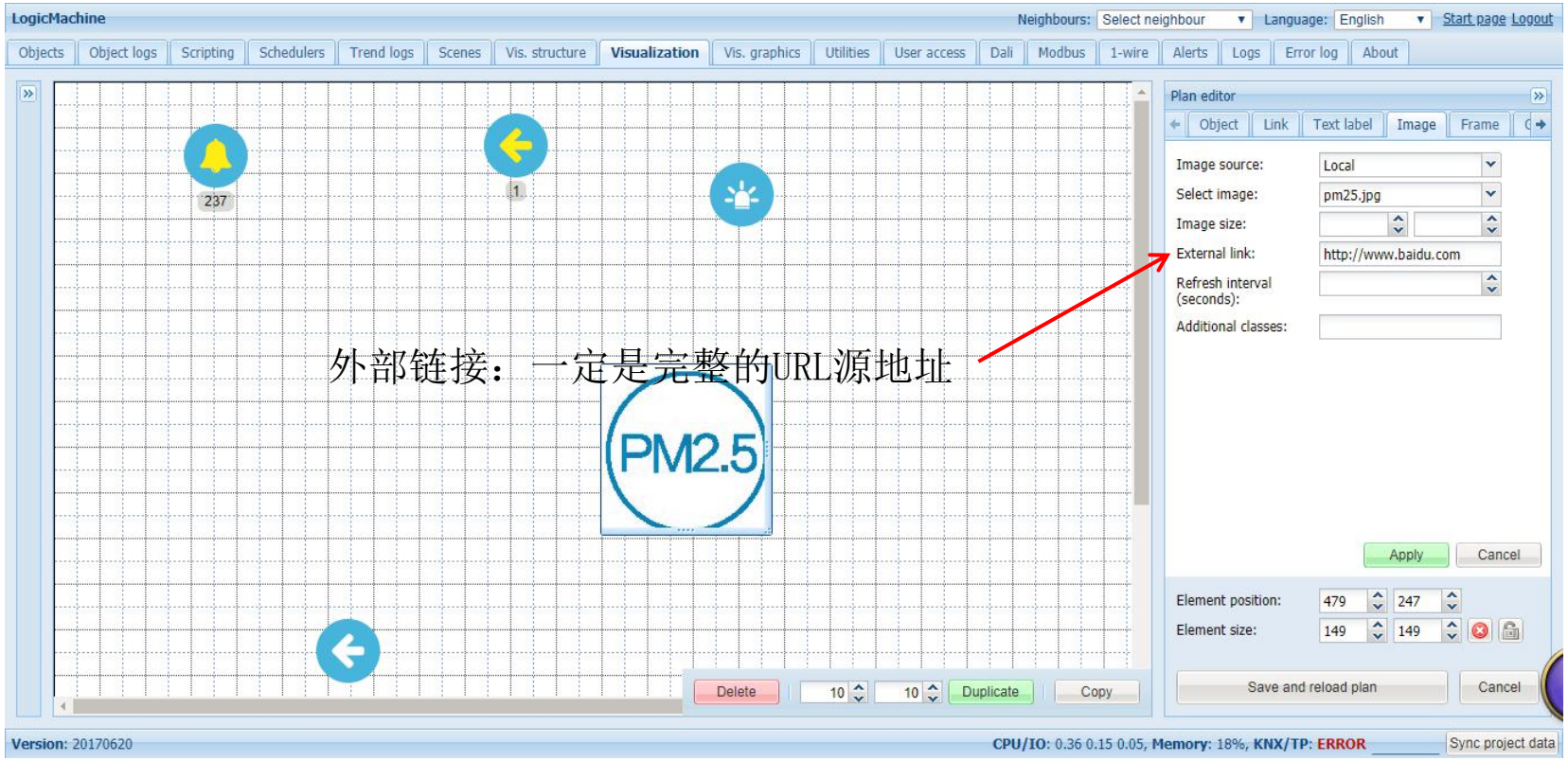
Logic Machine > Visualization > Image



Logic Machine > Visualization > Image

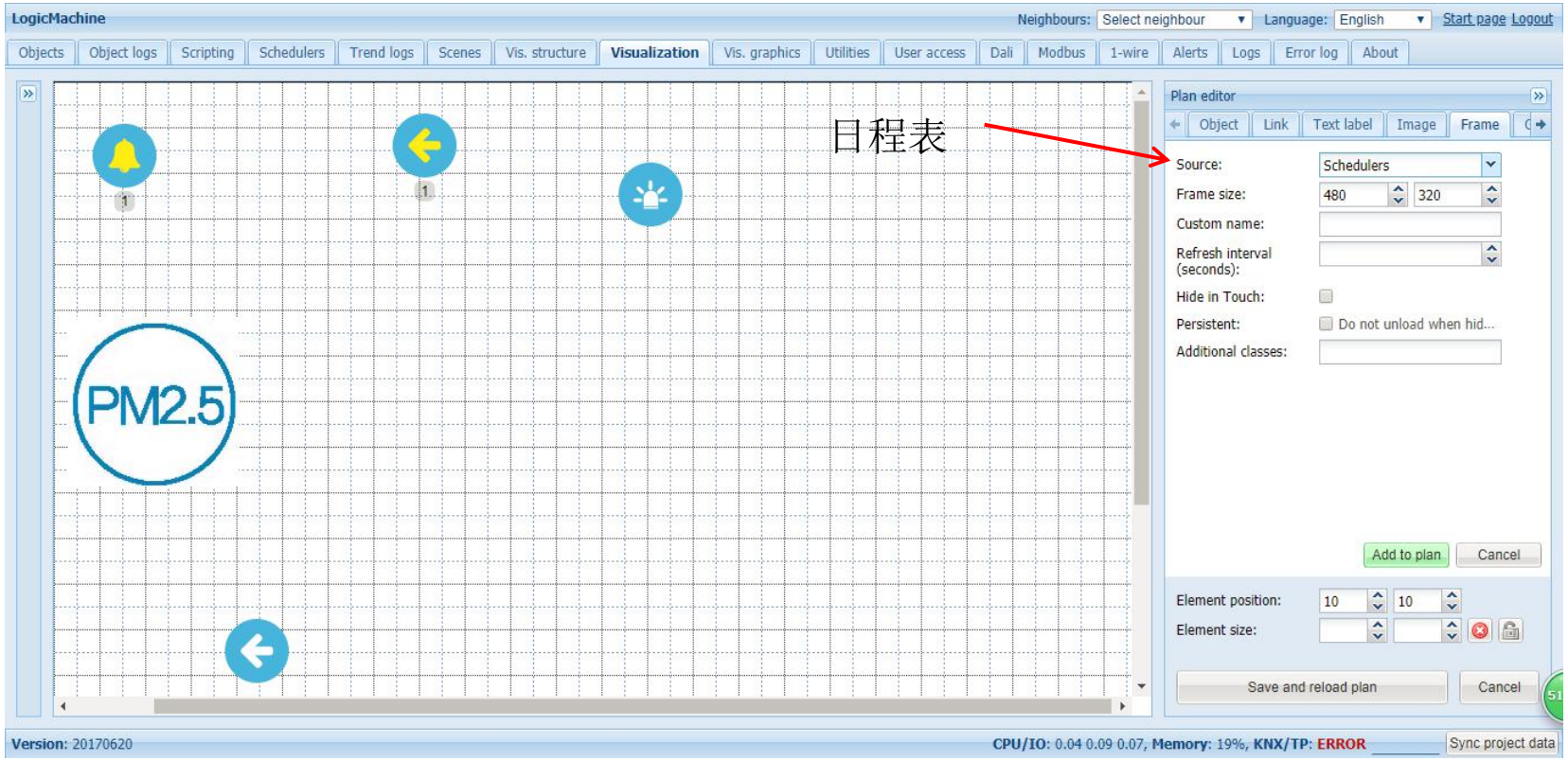


Logic Machine > Visualization > Image

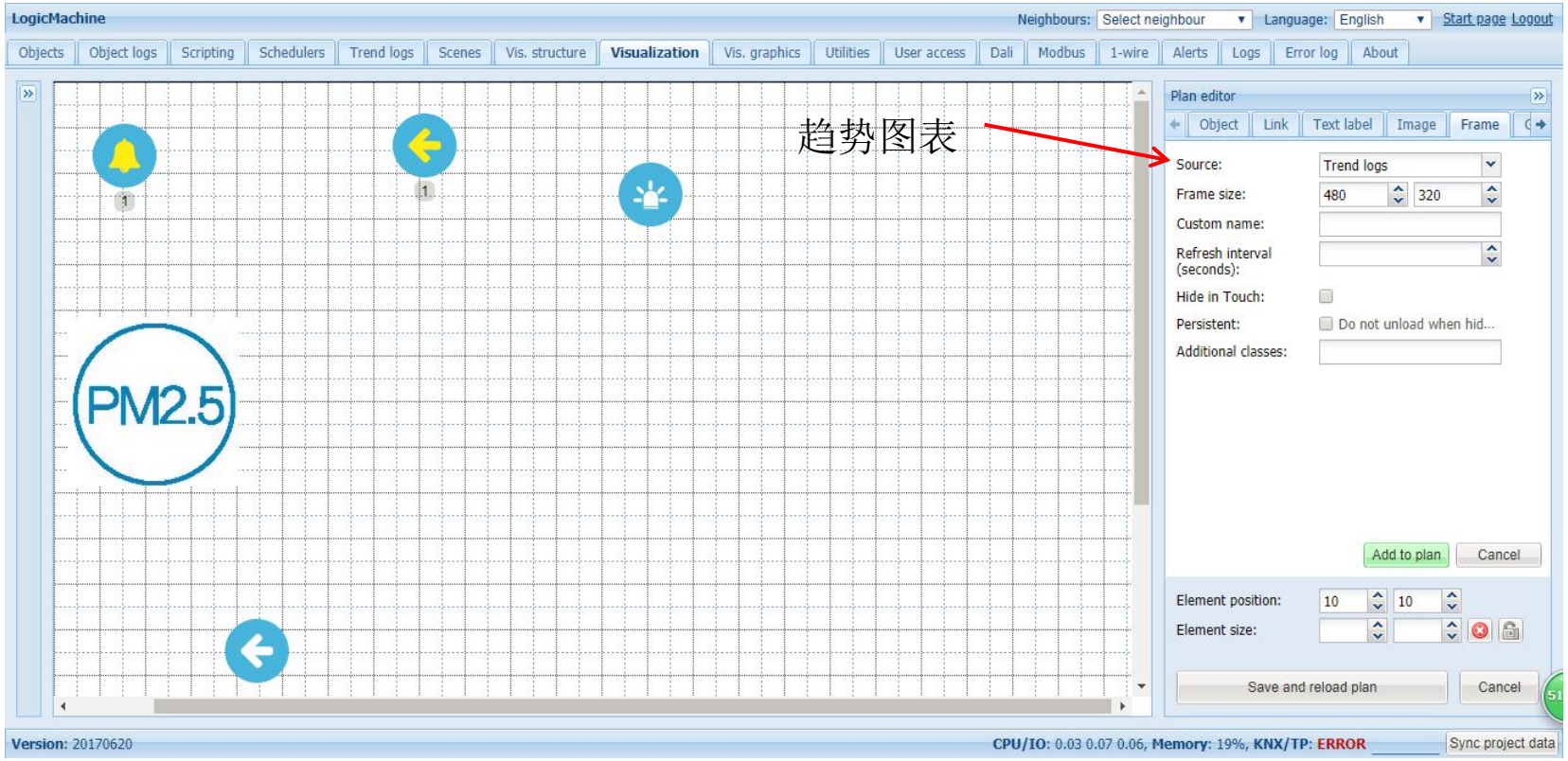


Logic Machine > Visualization > Frame

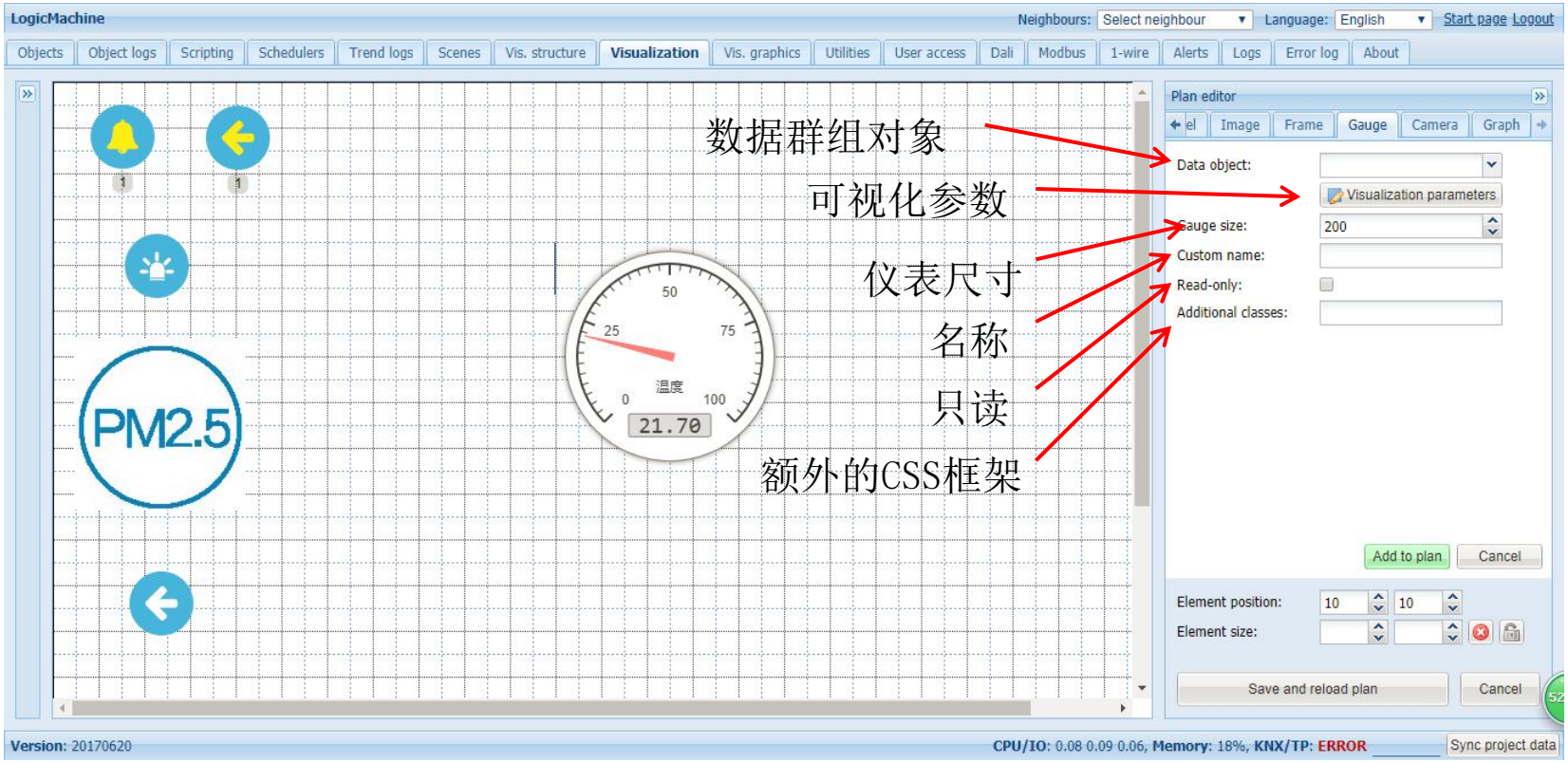
Logic Machine > Visualization > Frame



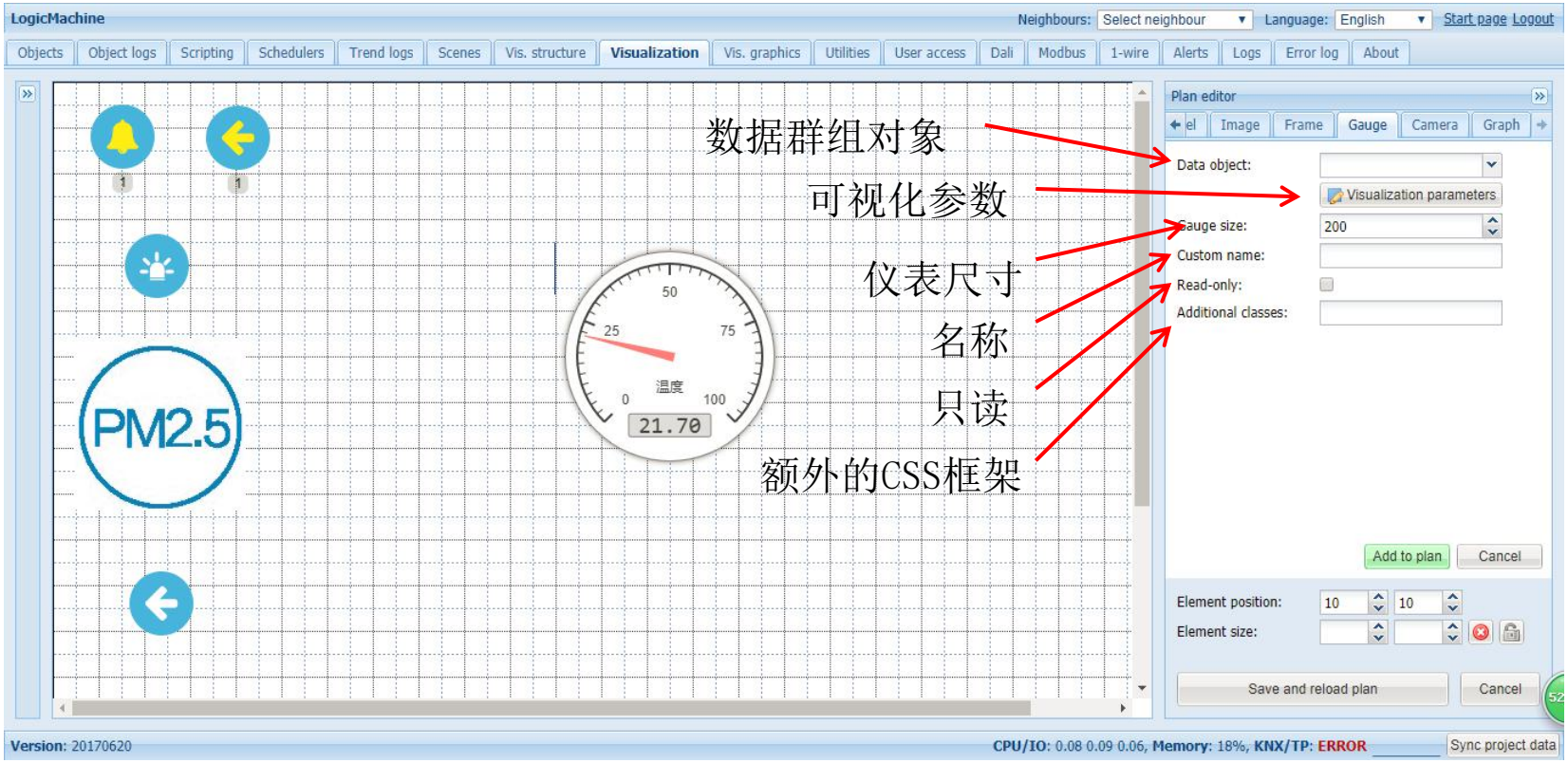
Logic Machine > Visualization > Frame



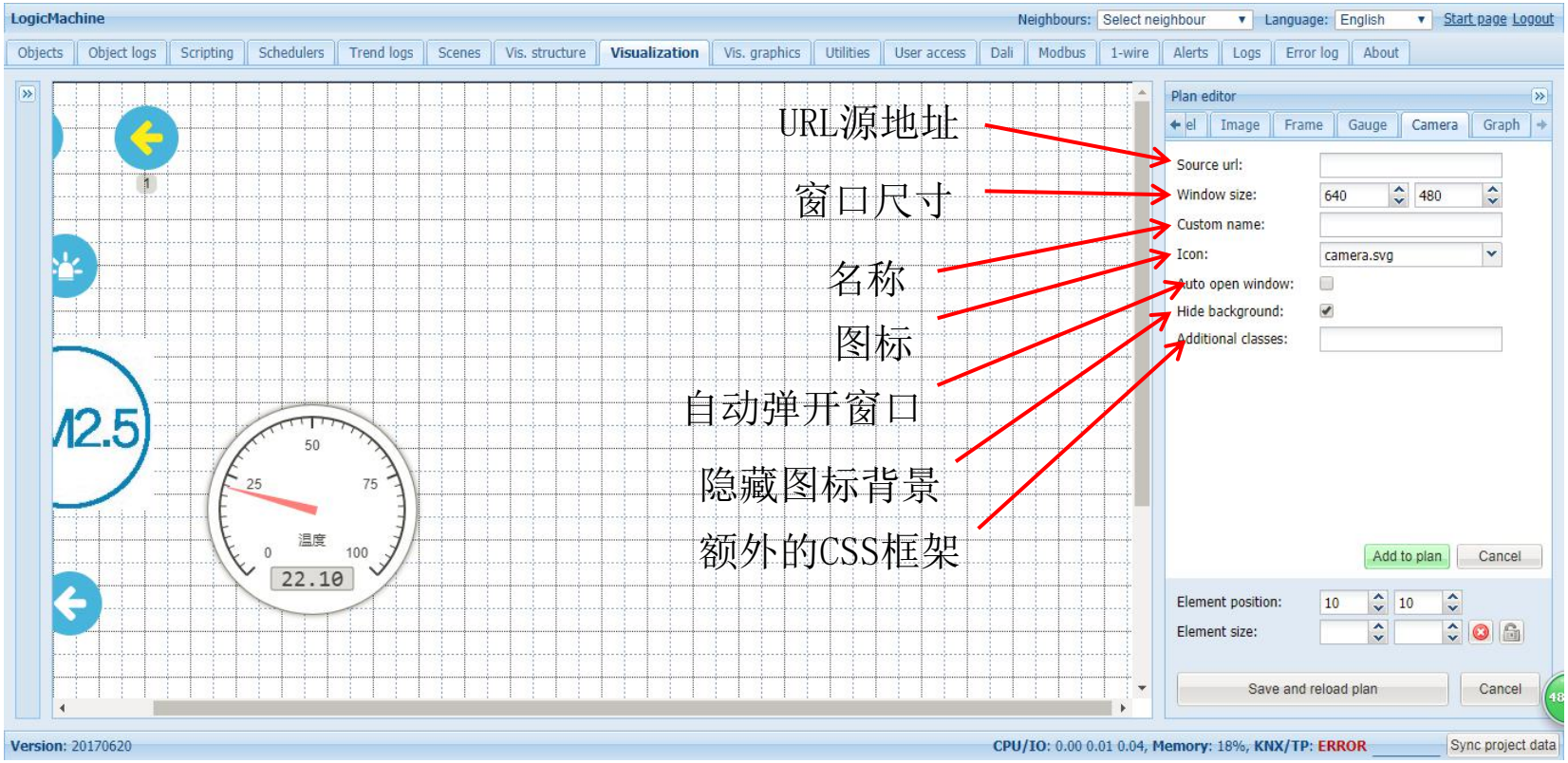
Logic Machine > Visualization > Gauge



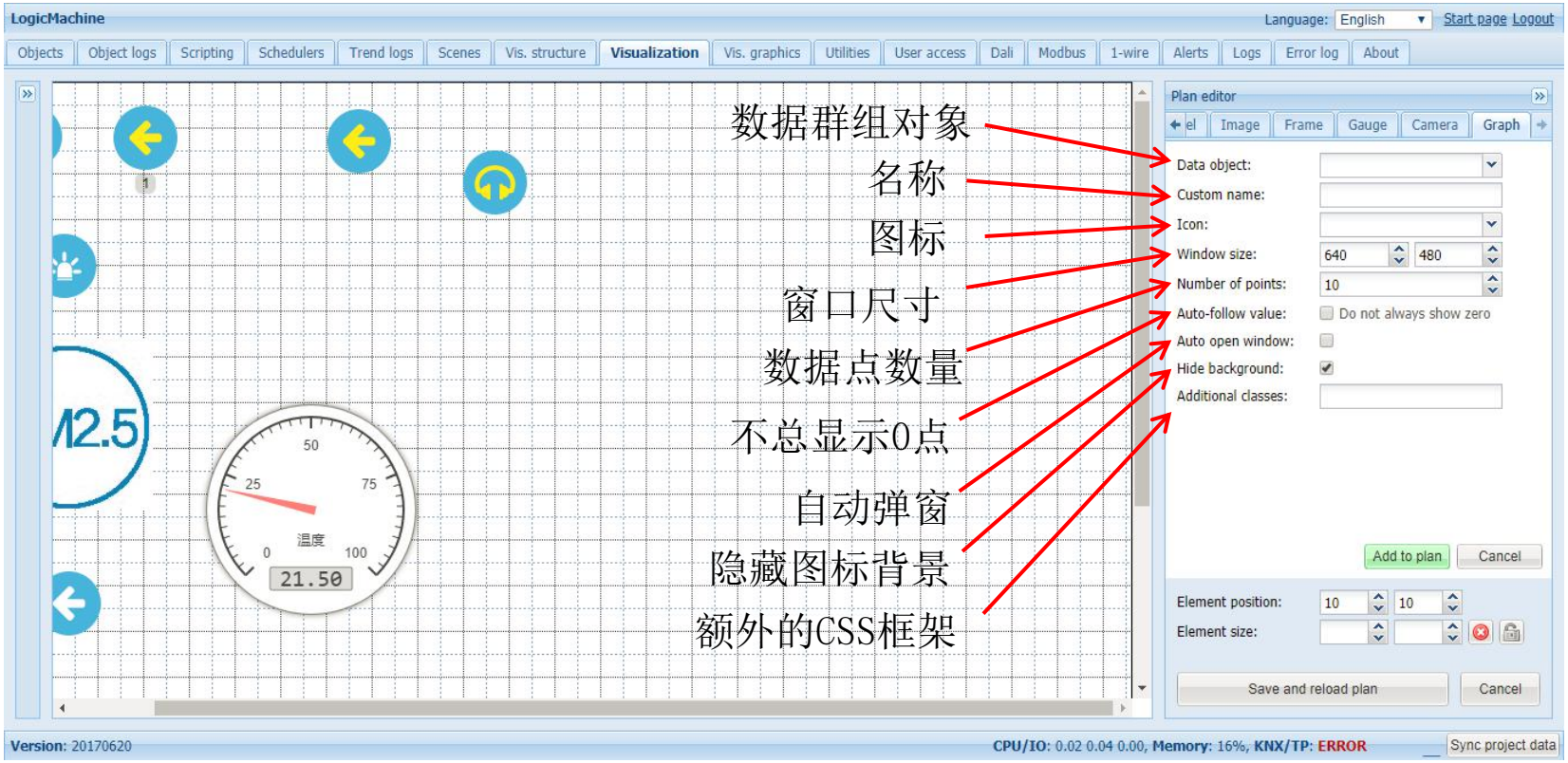
Logic Machine > Visualization > Gauge



embedded automation



embedded automation



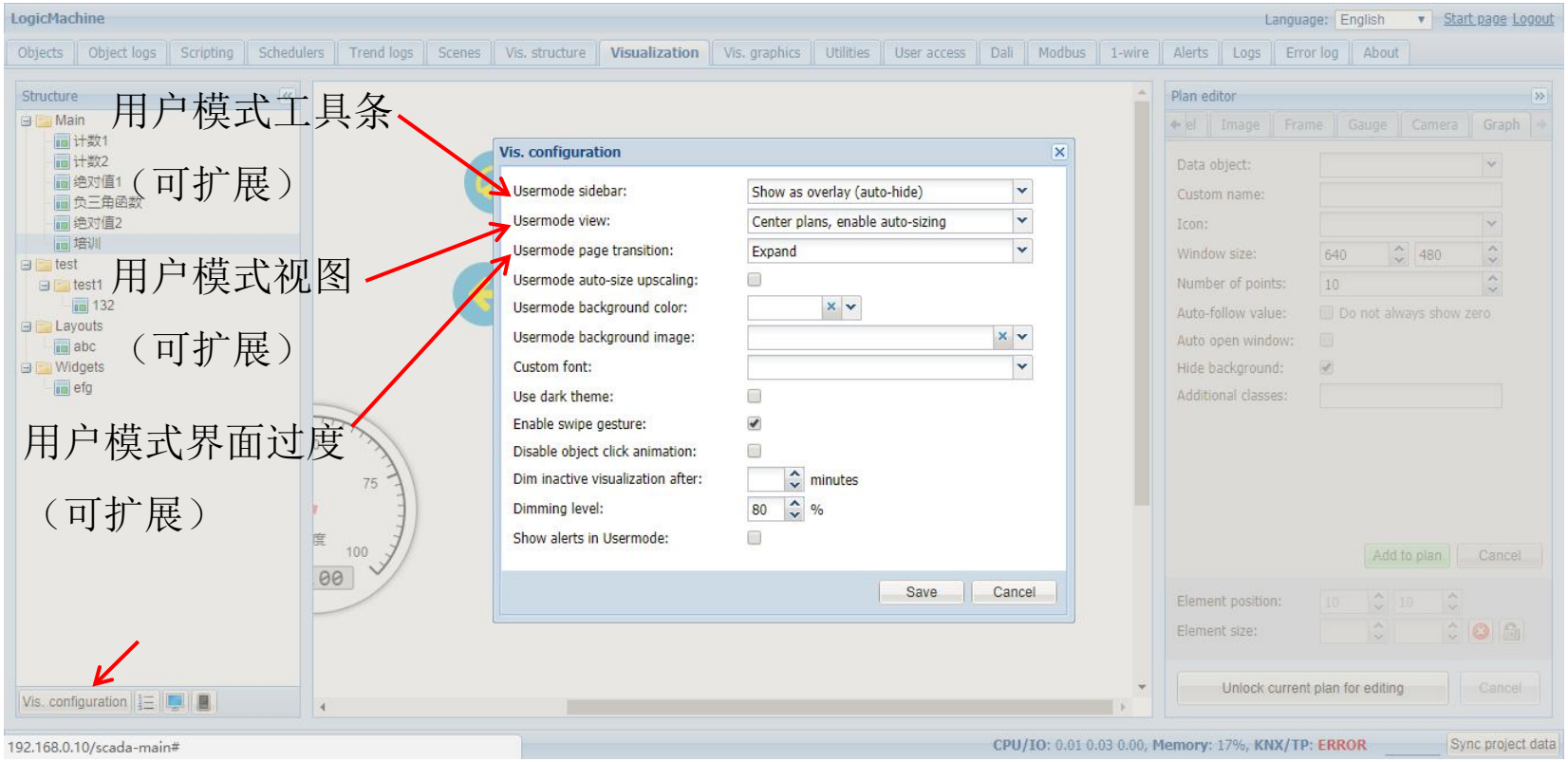
embedded automation

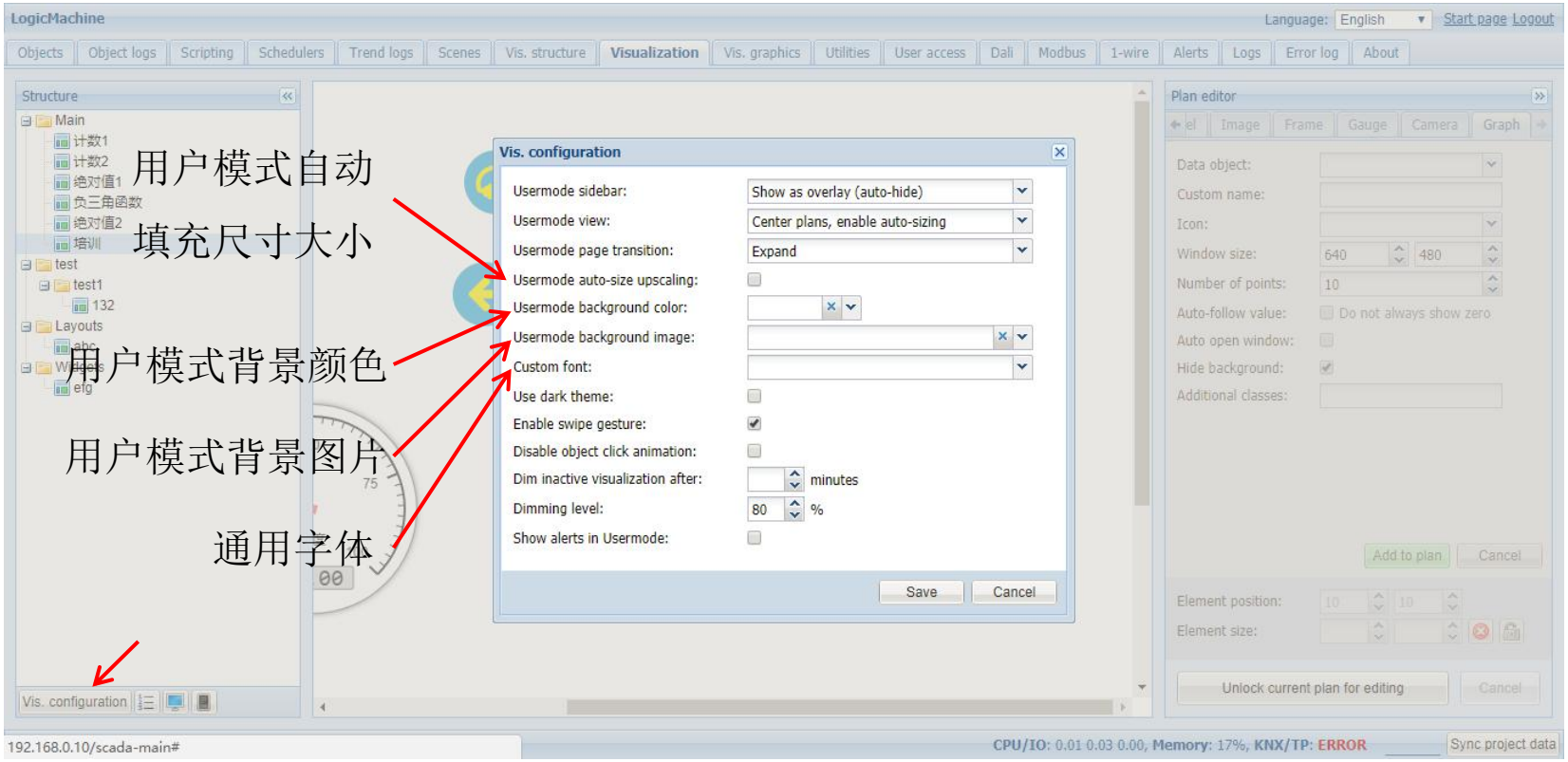
触控端对象排序

触控端界面预览

可视化界面配置　用户端界面预览

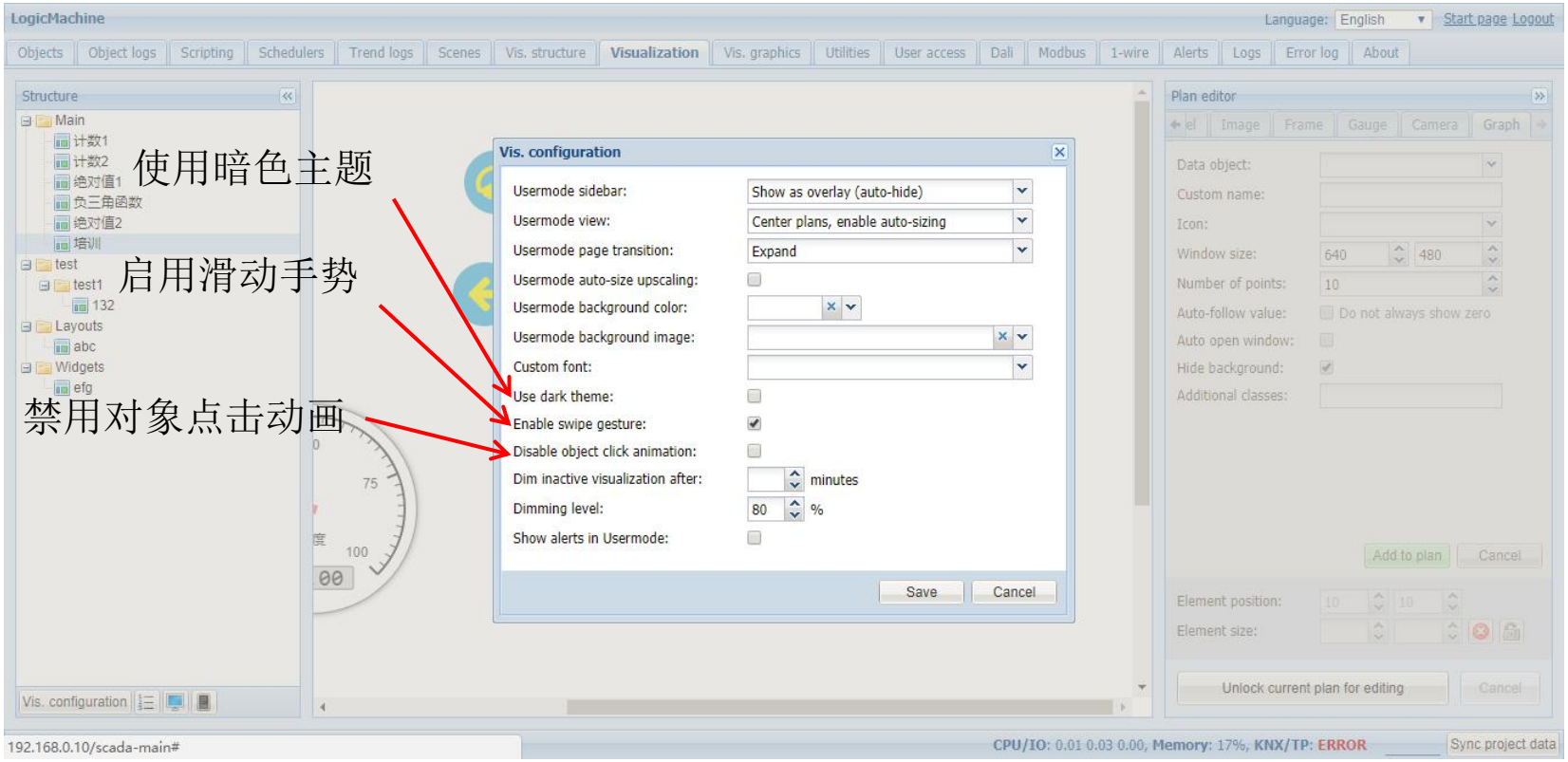
Logic Machine > Visualization > Vis.configuration

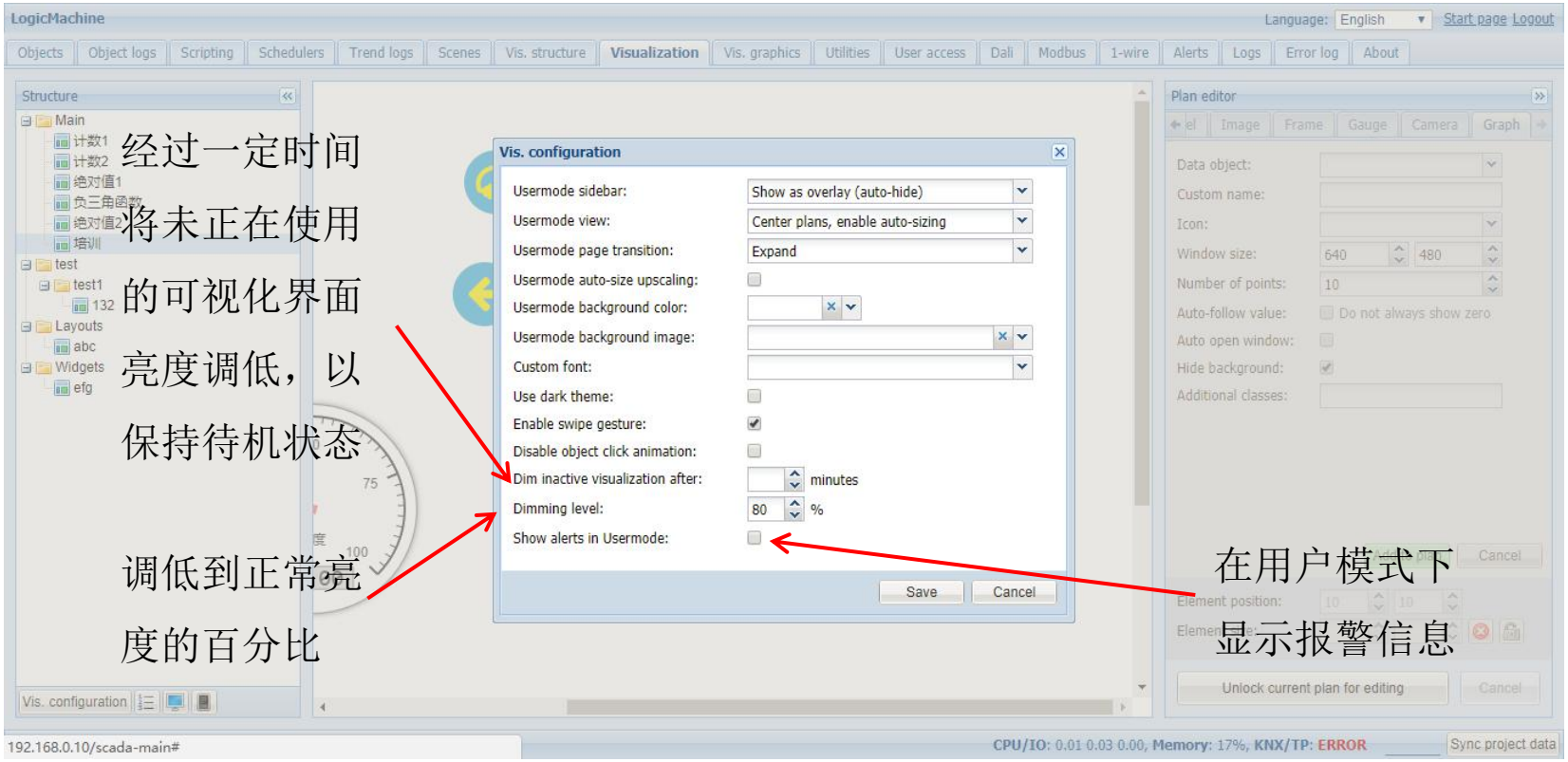



用户模式自动填充尺寸大小
用户模式背景颜色
用户模式背景图片
通用字体
LogicMachine
Vis. configuration
Usermode sidebar:
Show as overlay (auto-hide)
Usermode view:
Center plans, enable auto-sizing
Usermode page transition:
Expand
Usermode auto-size upscaling:
Usermode background color:
Usermode background image:
Custom font:
Use dark theme:
Enable swipe gesture:
Disable object click animation:
Dim inactive visualization after:
minutes
Dimming level:
80
%
Show alerts in Usermode:
Save
Cancel

Logic Machine > Visualization > Vis.configuration

embedded automation

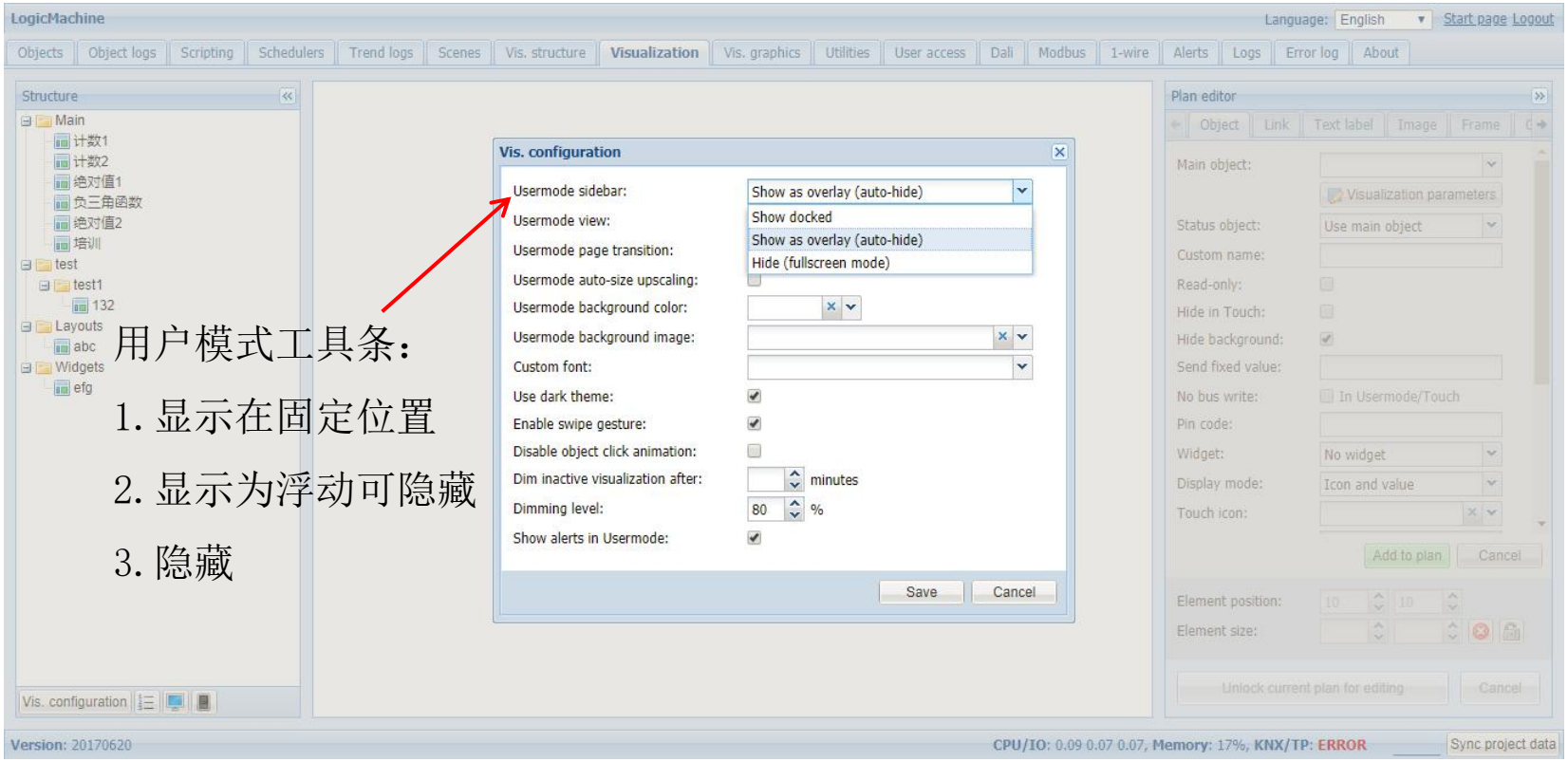




经过一定时间将未正在使用的可视化界面亮度调低，以保持待机状态

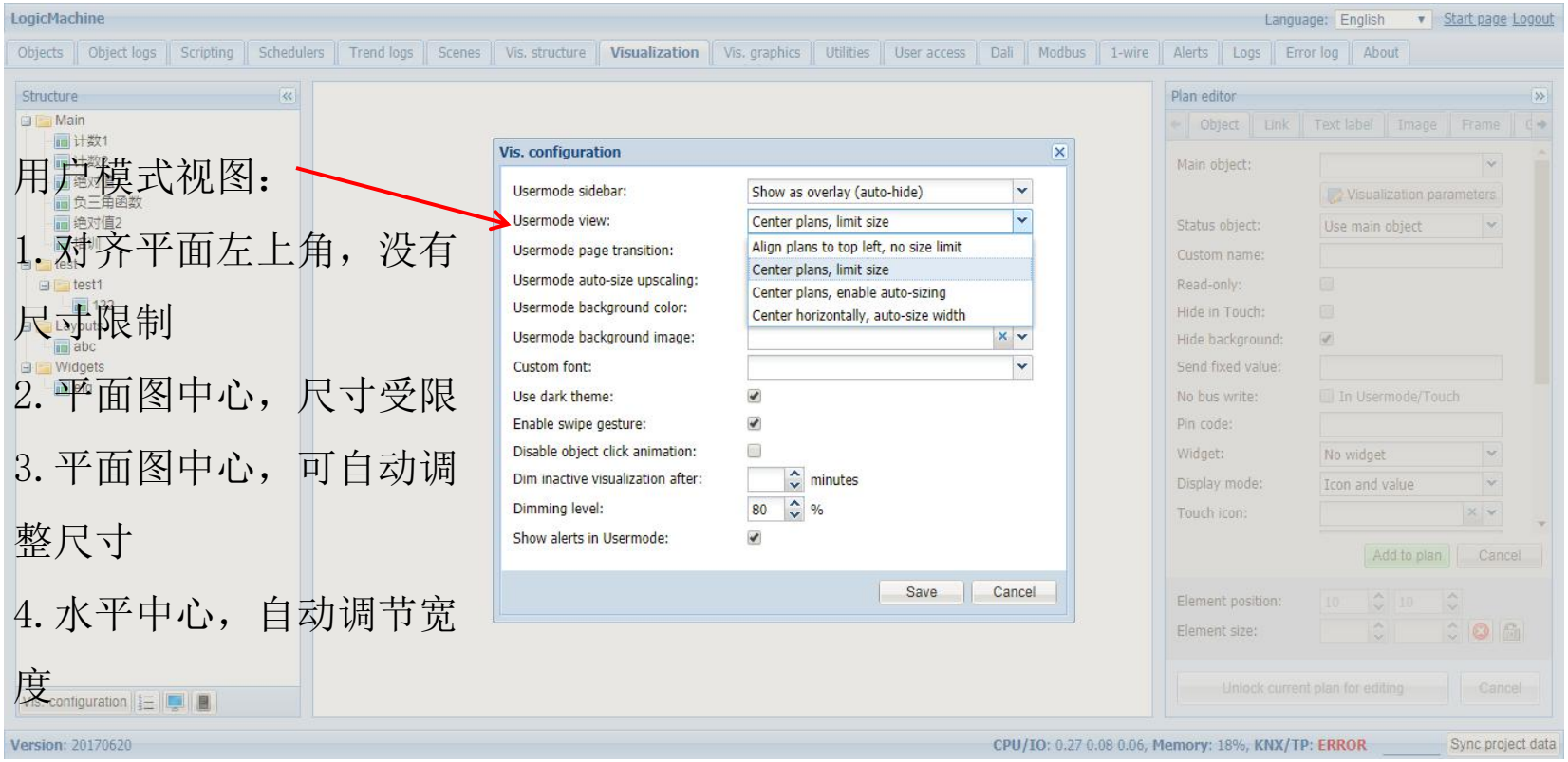
调低到正常亮度的百分比

在用户模式下显示报警信息



用户模式工具条：

1. 显示在固定位置
2. 显示为浮动可隐藏
3. 隐藏



用户模式视图：

1. 对齐平面左上角，没有尺寸限制
2. 平面图中心，尺寸受限
3. 平面图中心，可自动调整尺寸
4. 水平中心，自动调节宽度

用户模式界面过渡：

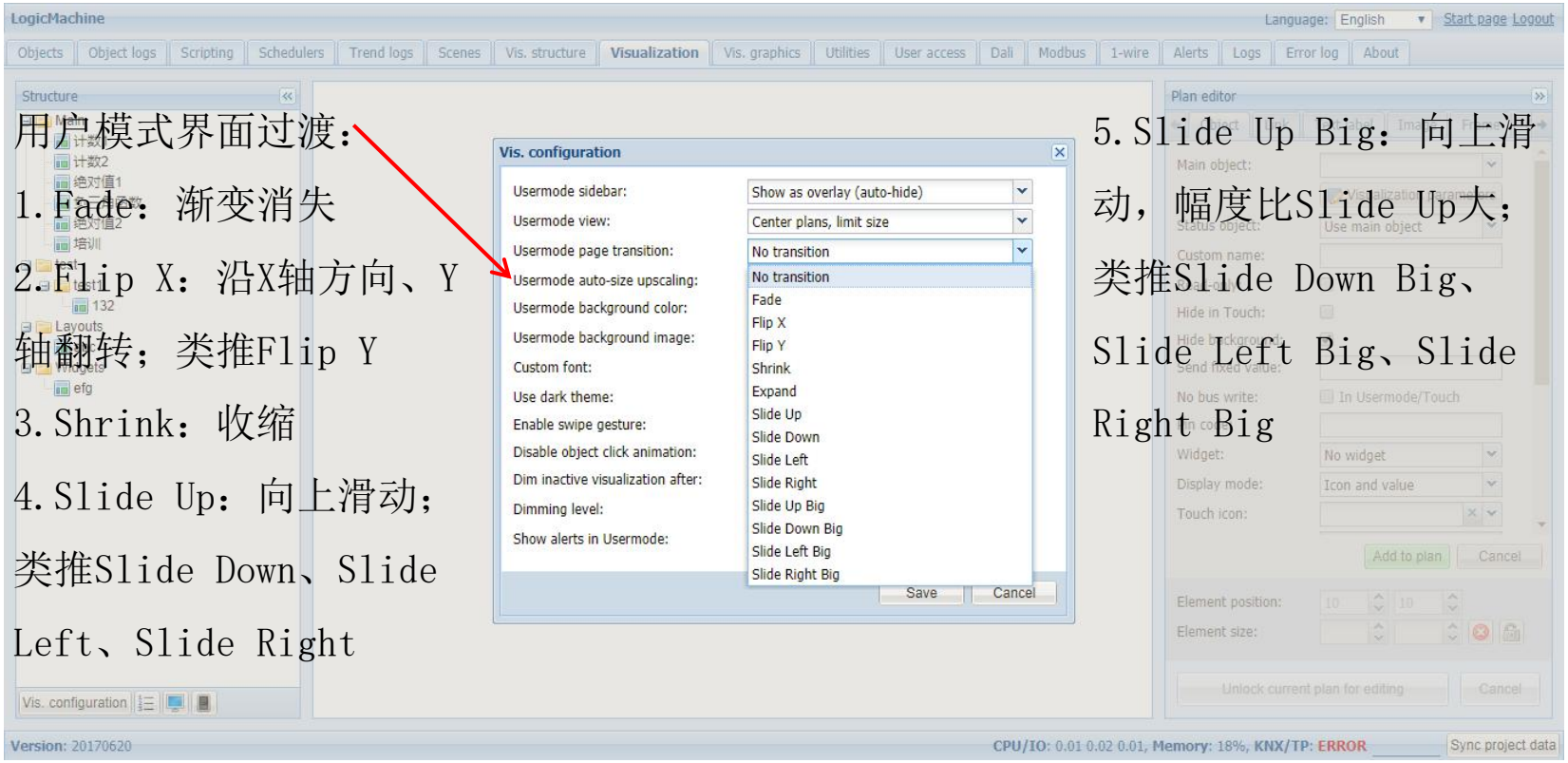
1. Fade：渐变消失

2. Flip X：沿X轴方向、Y轴翻转；类推Flip Y

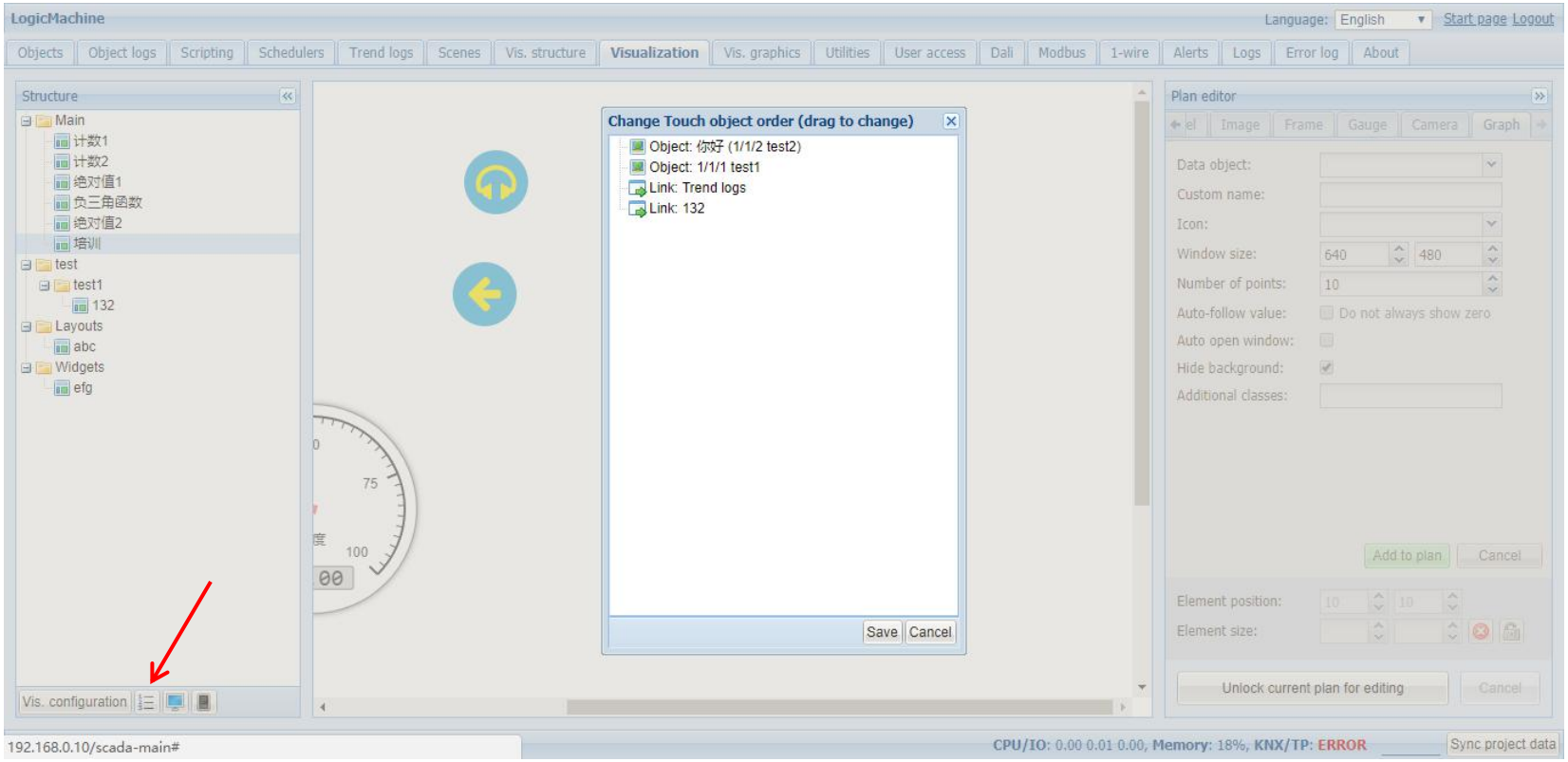
3. Shrink：收缩

4. Slide Up：向上滑动；类推Slide Down、Slide Left、Slide Right

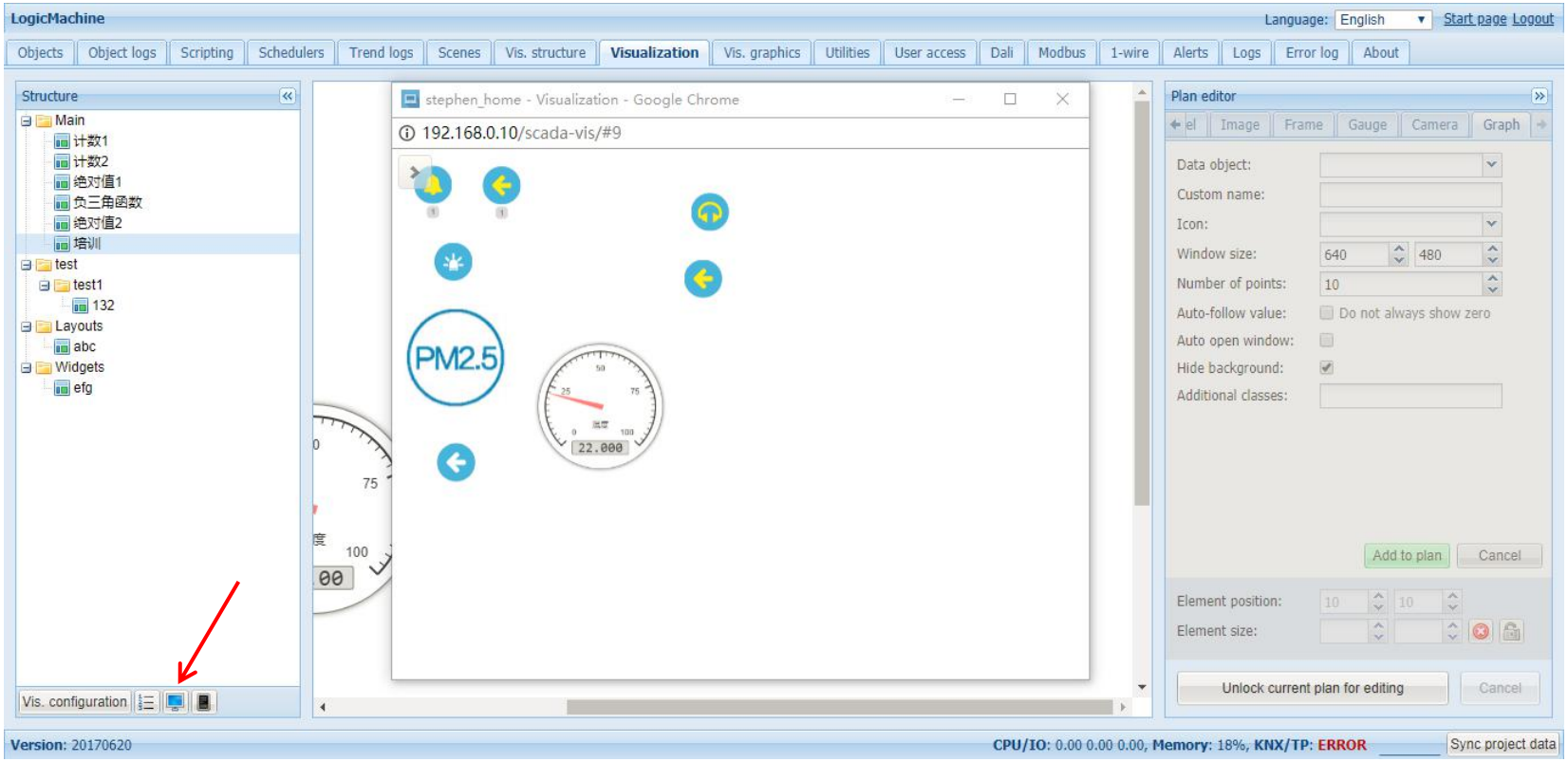
5. Slide Up Big：向上滑动，幅度比Slide Up大；类推Slide Down Big、Slide Left Big、Slide Right Big



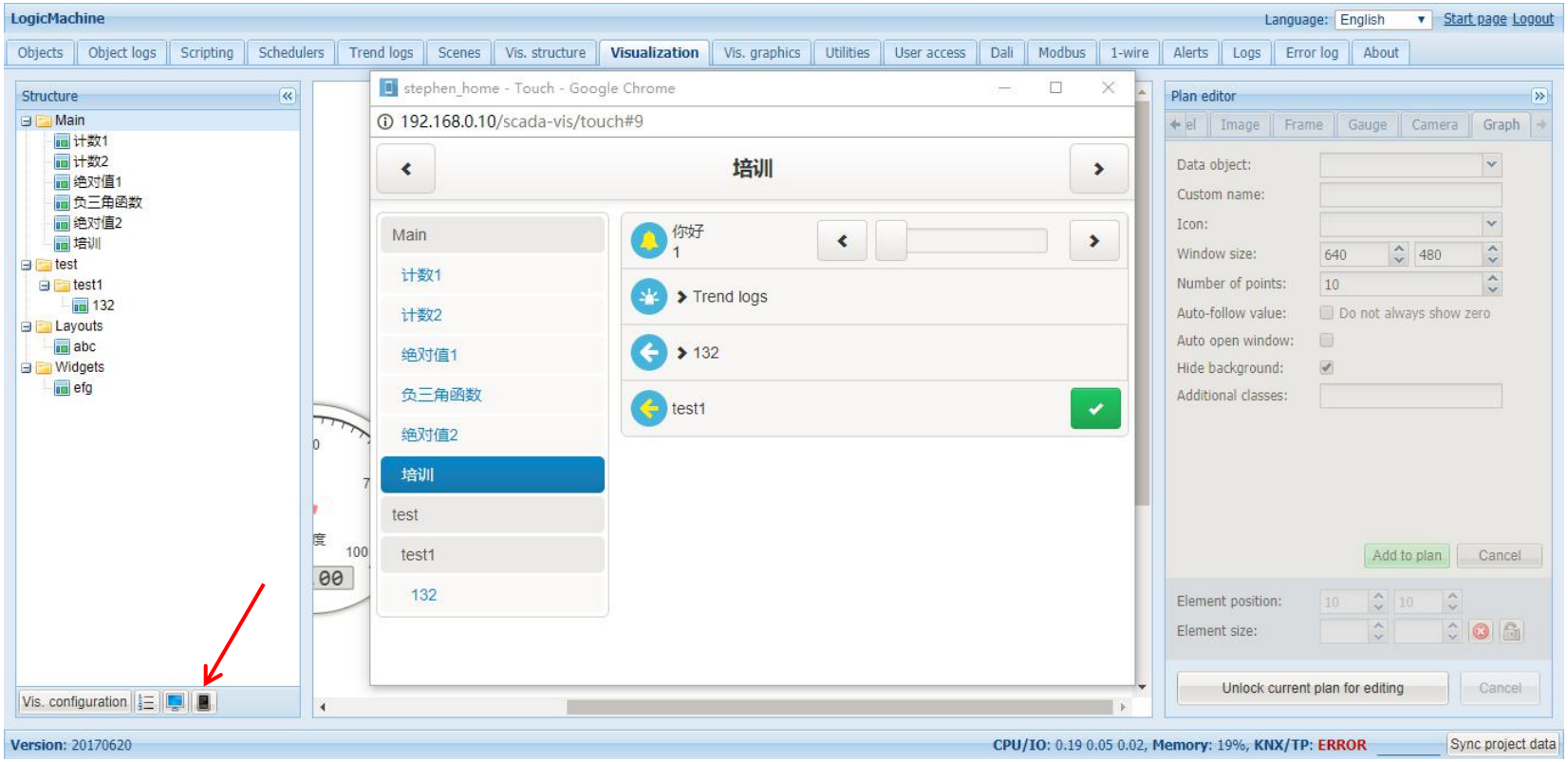
Logic Machine > Visualization > Objects order



Logic Machine > Visualization > Visualization



Logic Machine > Visualization > Touch

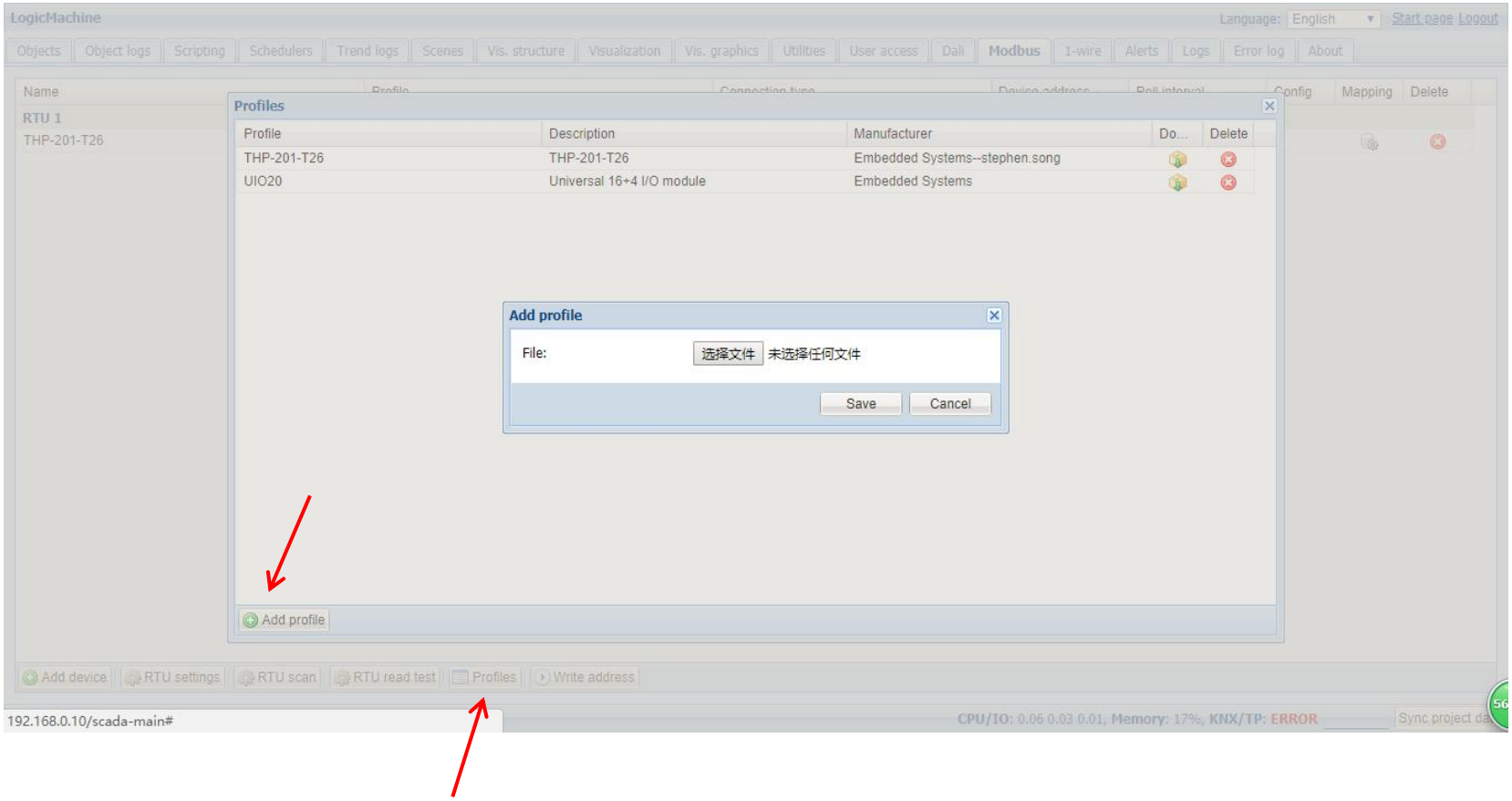


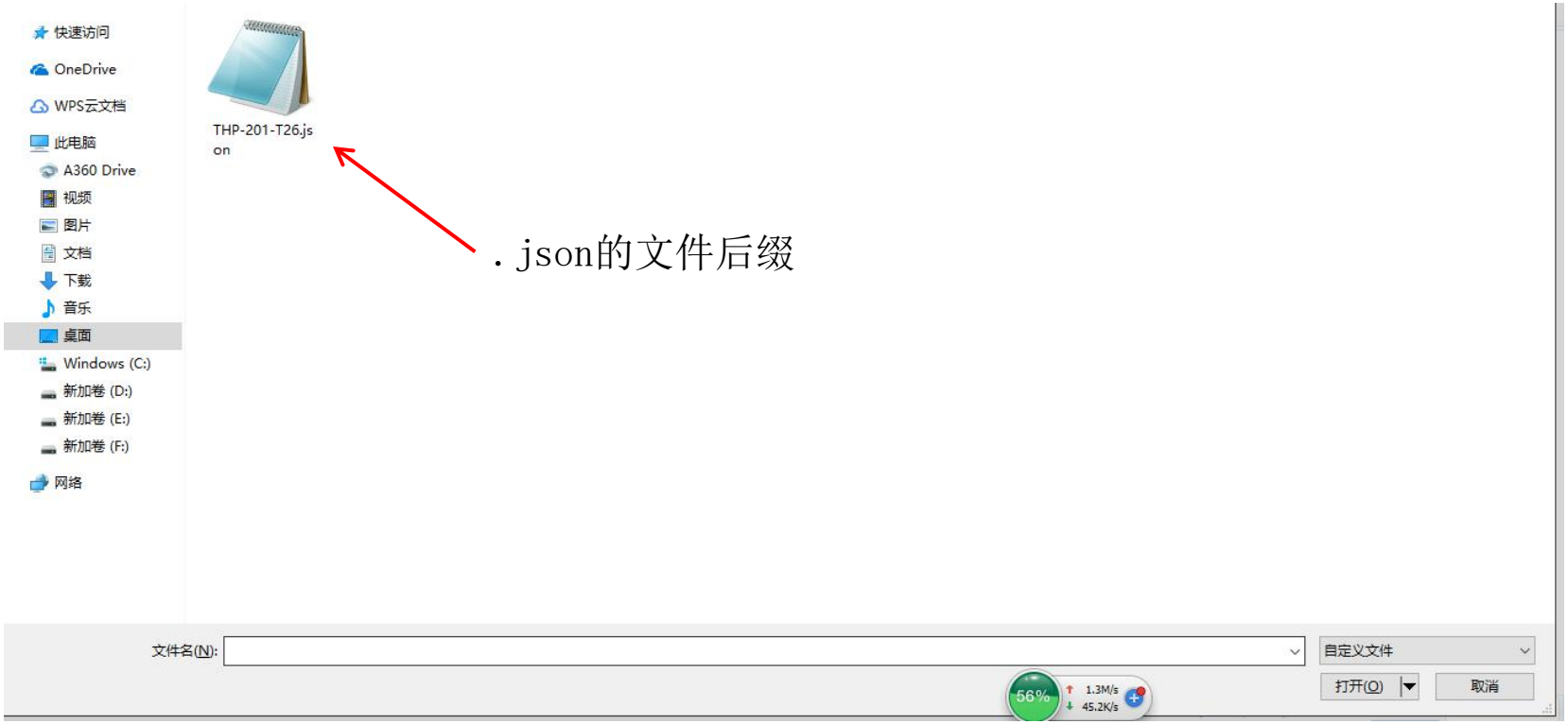
embedded automation

Modbus —— Modbus profile编辑

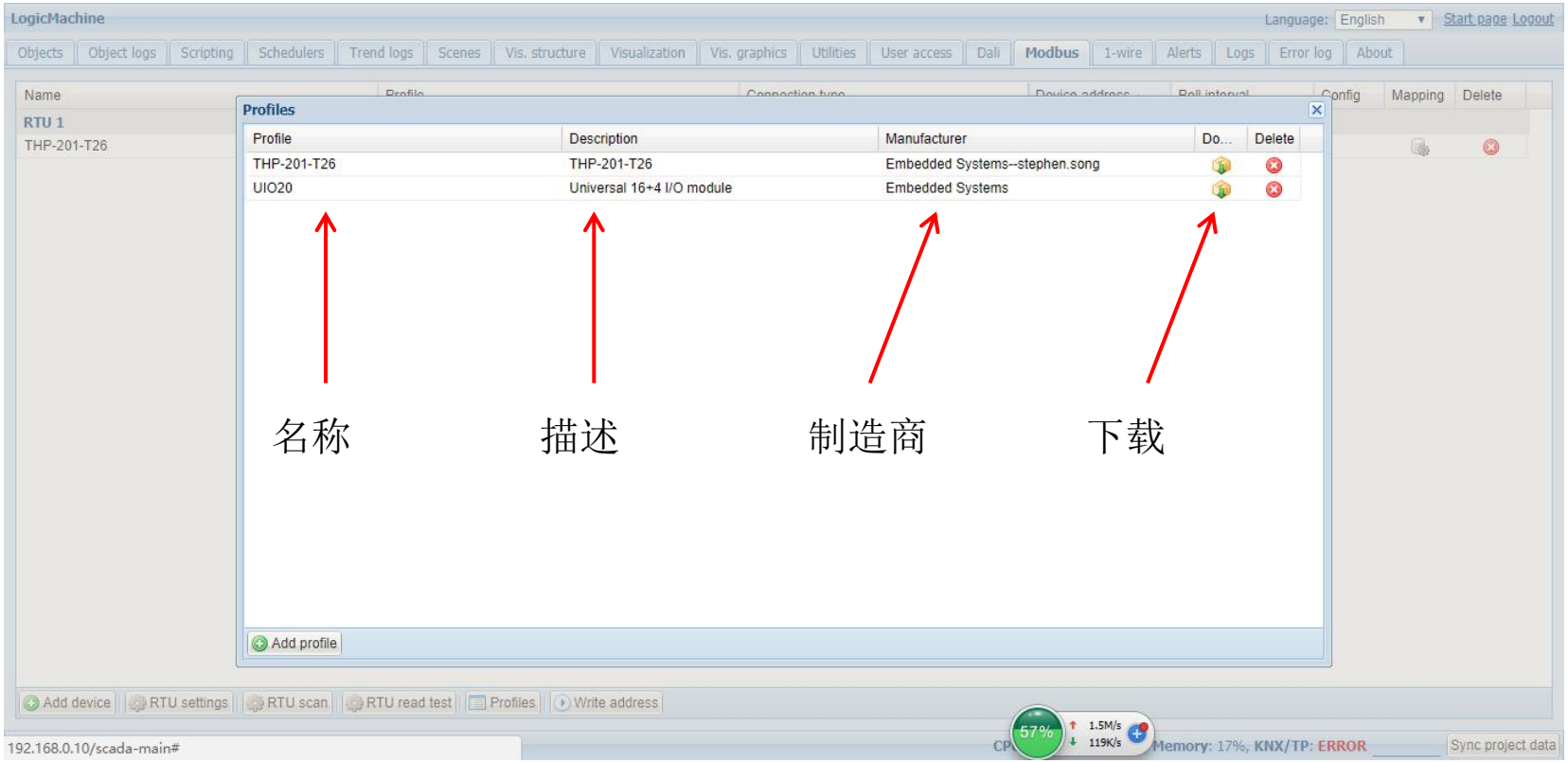

LogicMachine
Language: English
Start page
Logout
Objects
Object logs
Scripting
Schedulers
Trend logs
Scenes
Vis. structure
Visualization
Vis. graphics
Utilities
User access
Dali
Modbus
1-wire
Alerts
Logs
Error log
About
Name
Profile
Connection type
Device address
Poll interval
Config
Mapping
Delete
RTU 1
THP-201-T26
THP-201-T26
RTU 1
1
5
RTU设置
RTU读取测试
写地址
RTU扫描
配置文件
添加设备
Add device
RTU settings
RTU scan
RTU read test
Profiles
Write address
Version: 20170620
CPU/IO: 0.00 0.01 0.00, Memory: 17%, KNX/TP: ERROR
Sync project data

Logic Machine > Modbus > Profile

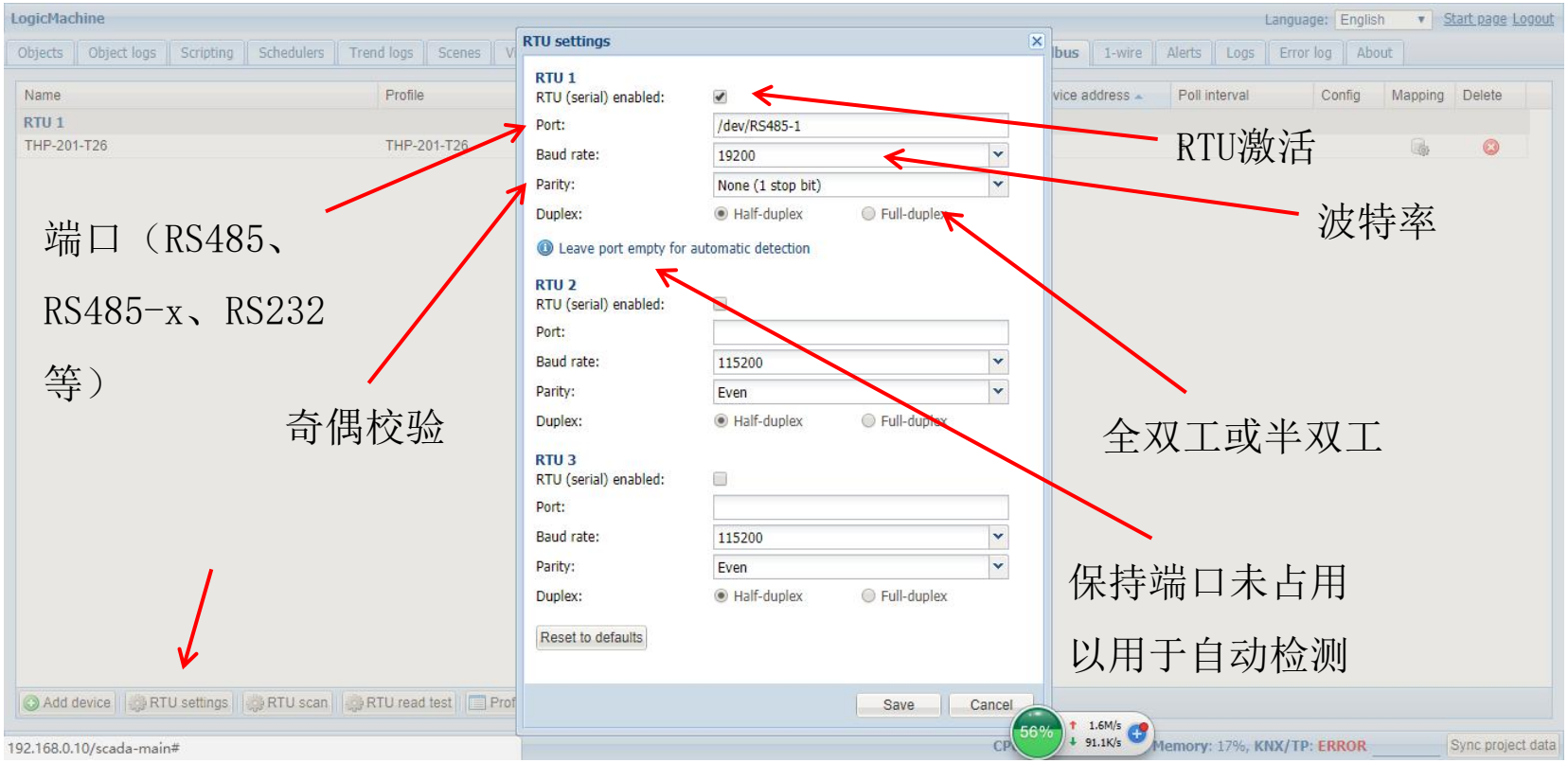



快速访问
OneDrive
WPS云文档
此电脑
A360 Drive
视频
图片
文档
下载
音乐
桌面
Windows (C:)
新加卷 (D:)
新加卷 (E:)
新加卷 (F:)
网络
THP-201-T26.json
.json的文件后缀
文件名(N):
自定义文件
打开(O)
取消
56%
1.3M/s
45.2K/s

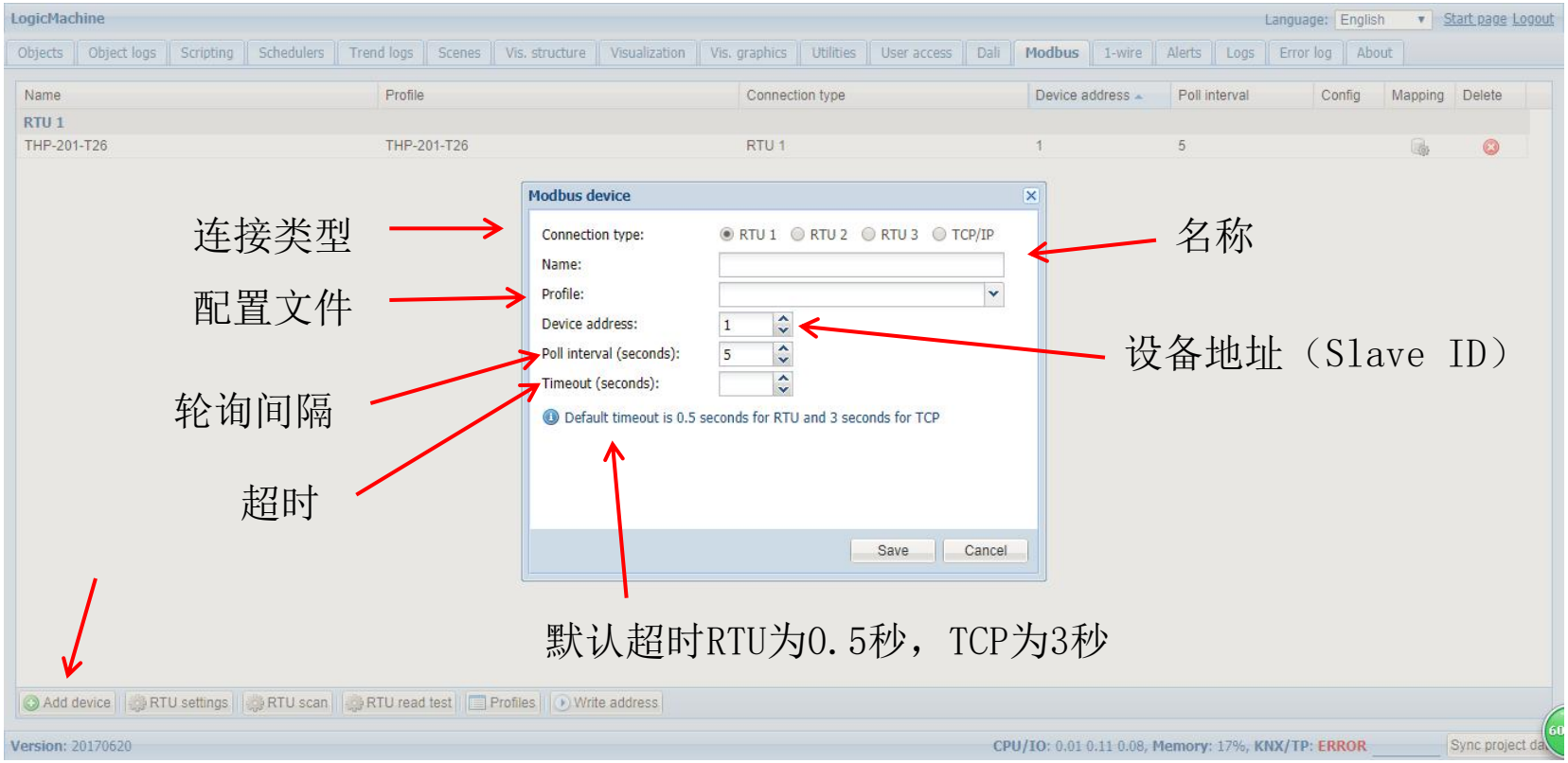
Logic Machine > Modbus > Profile



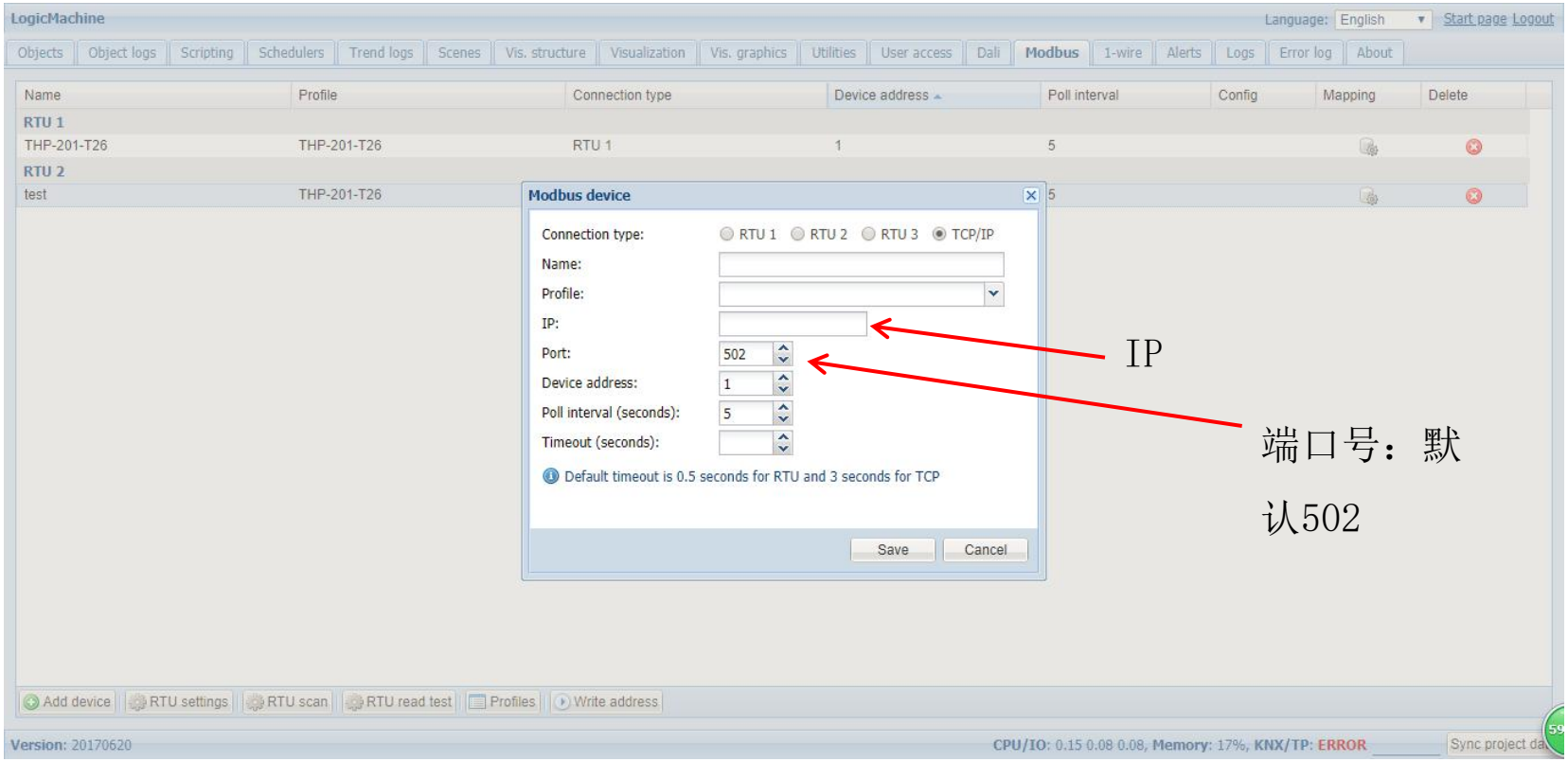
Logic Machine > Modbus > RTU settings



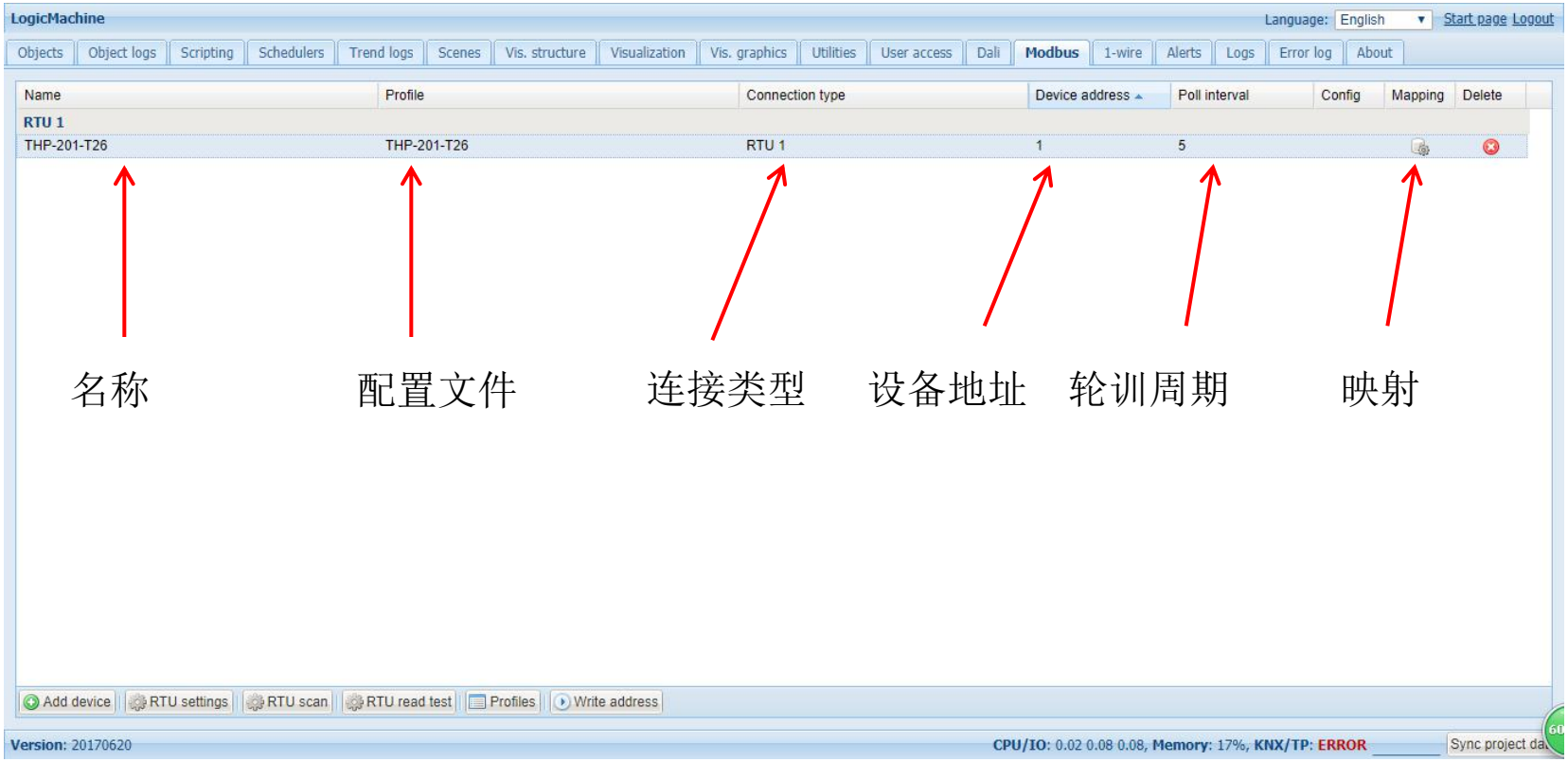
Logic Machine > Modbus > Add device



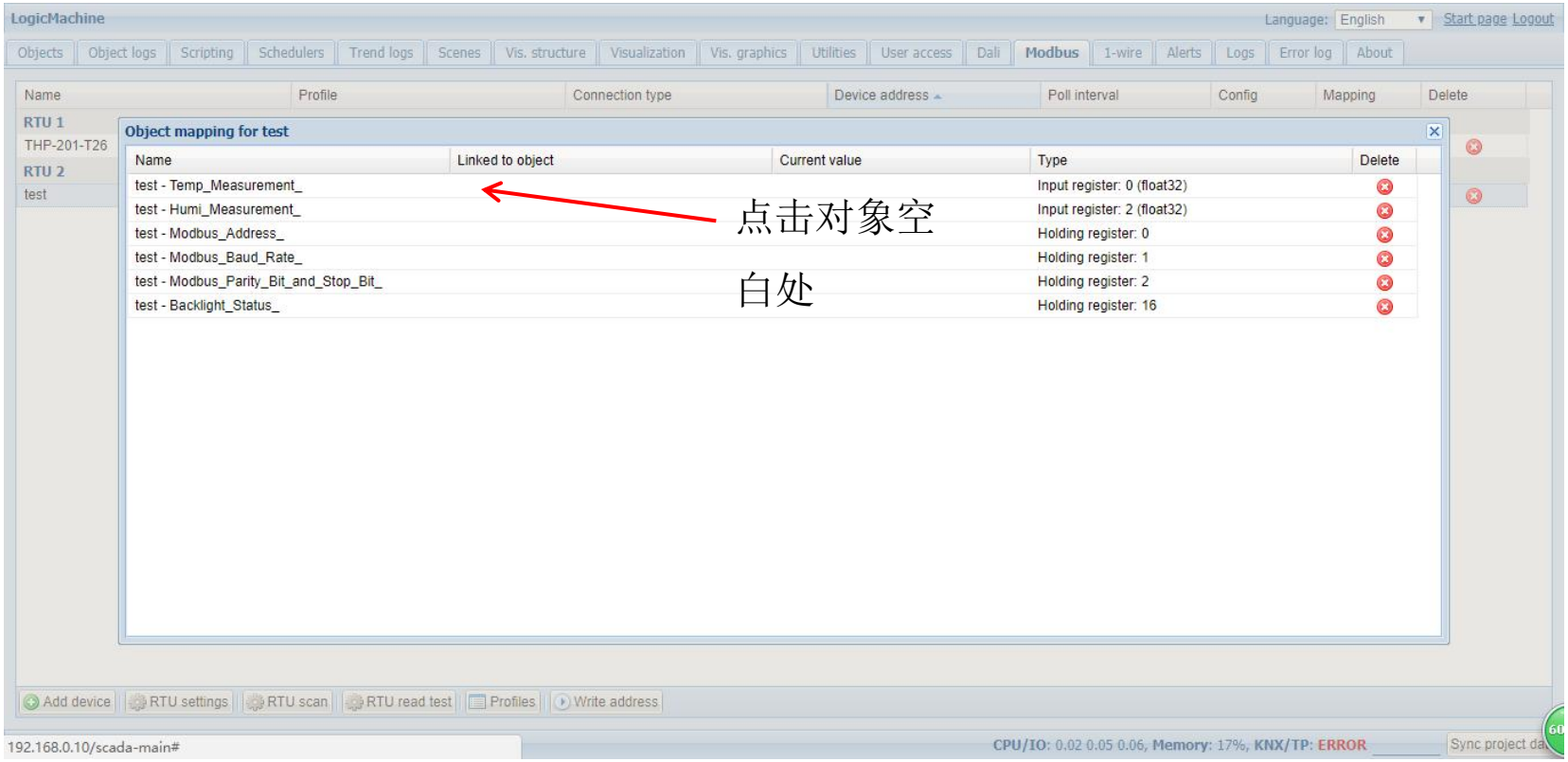
Logic Machine > Modbus > Add device



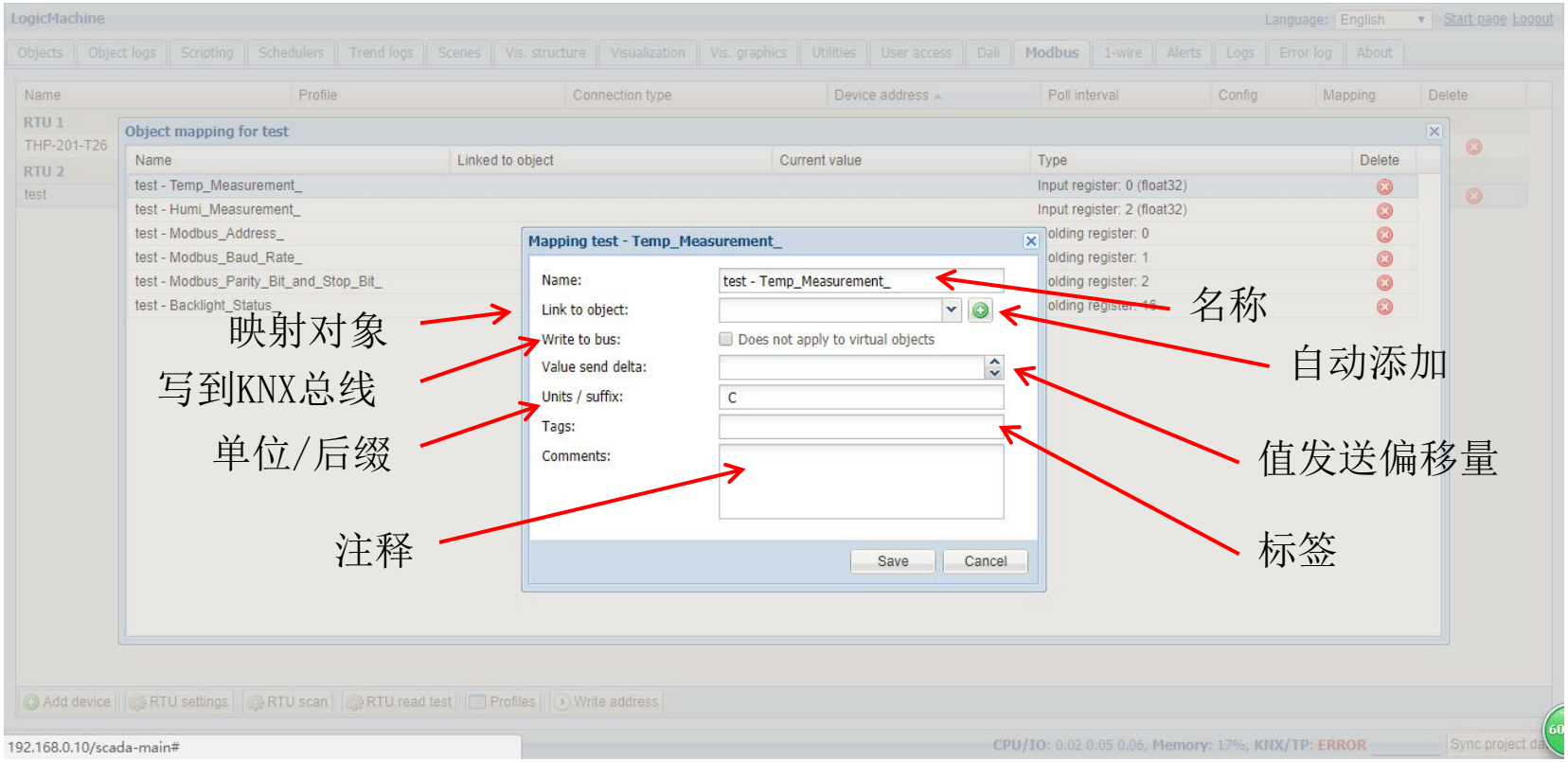
Logic Machine > Modbus > Add device



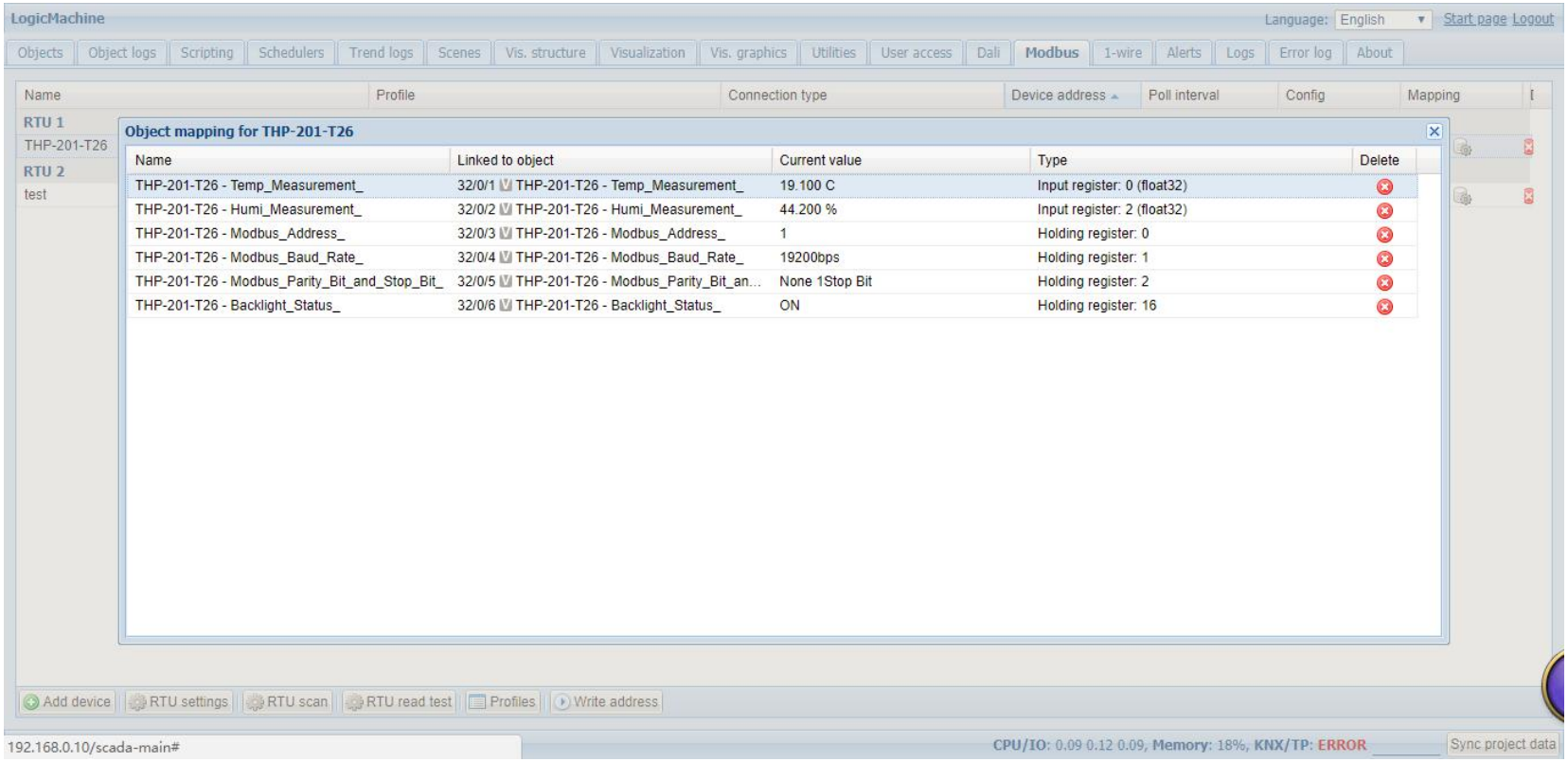
Logic Machine > Modbus > Mapping



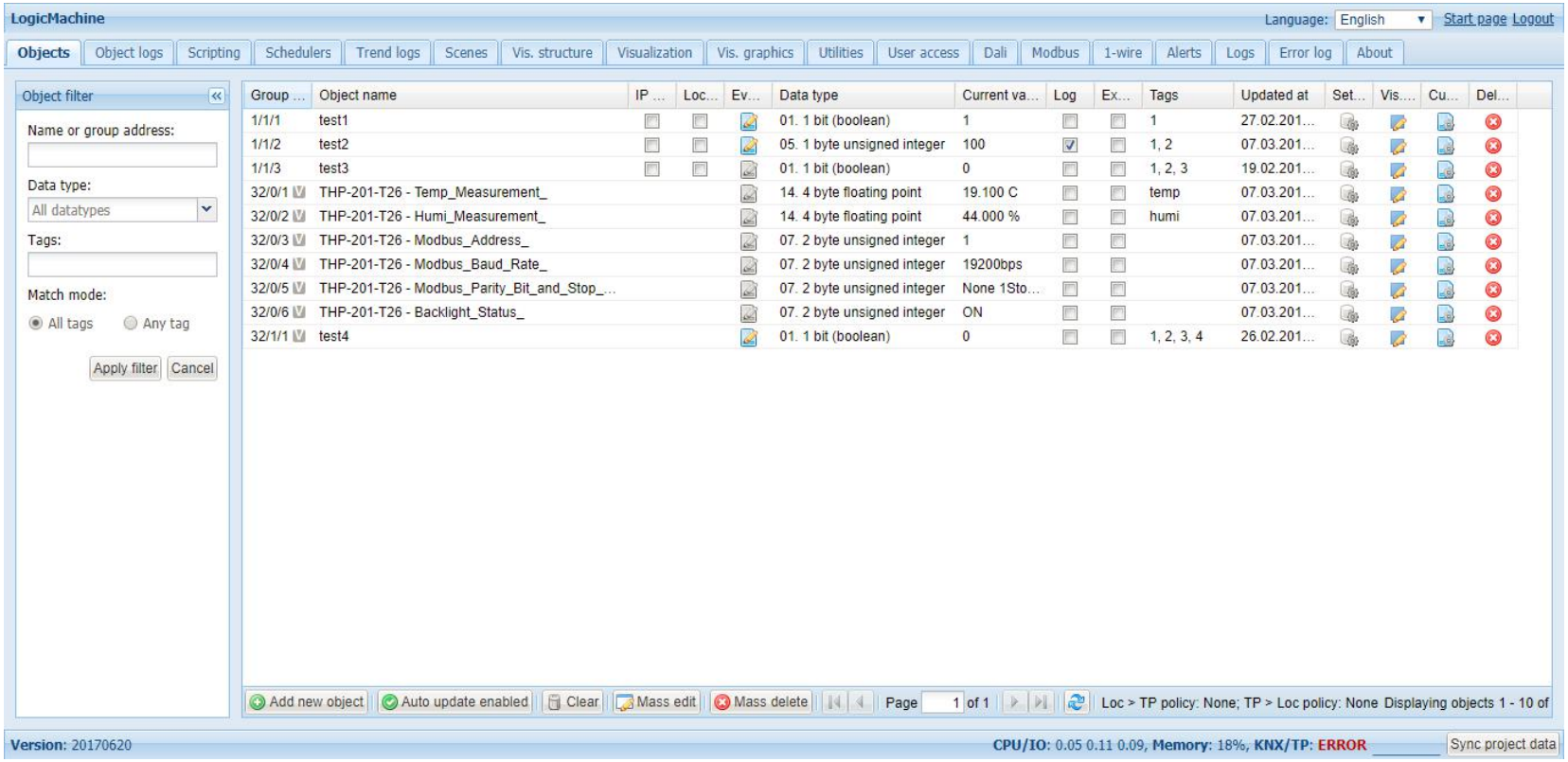
Logic Machine > Modbus > Mapping



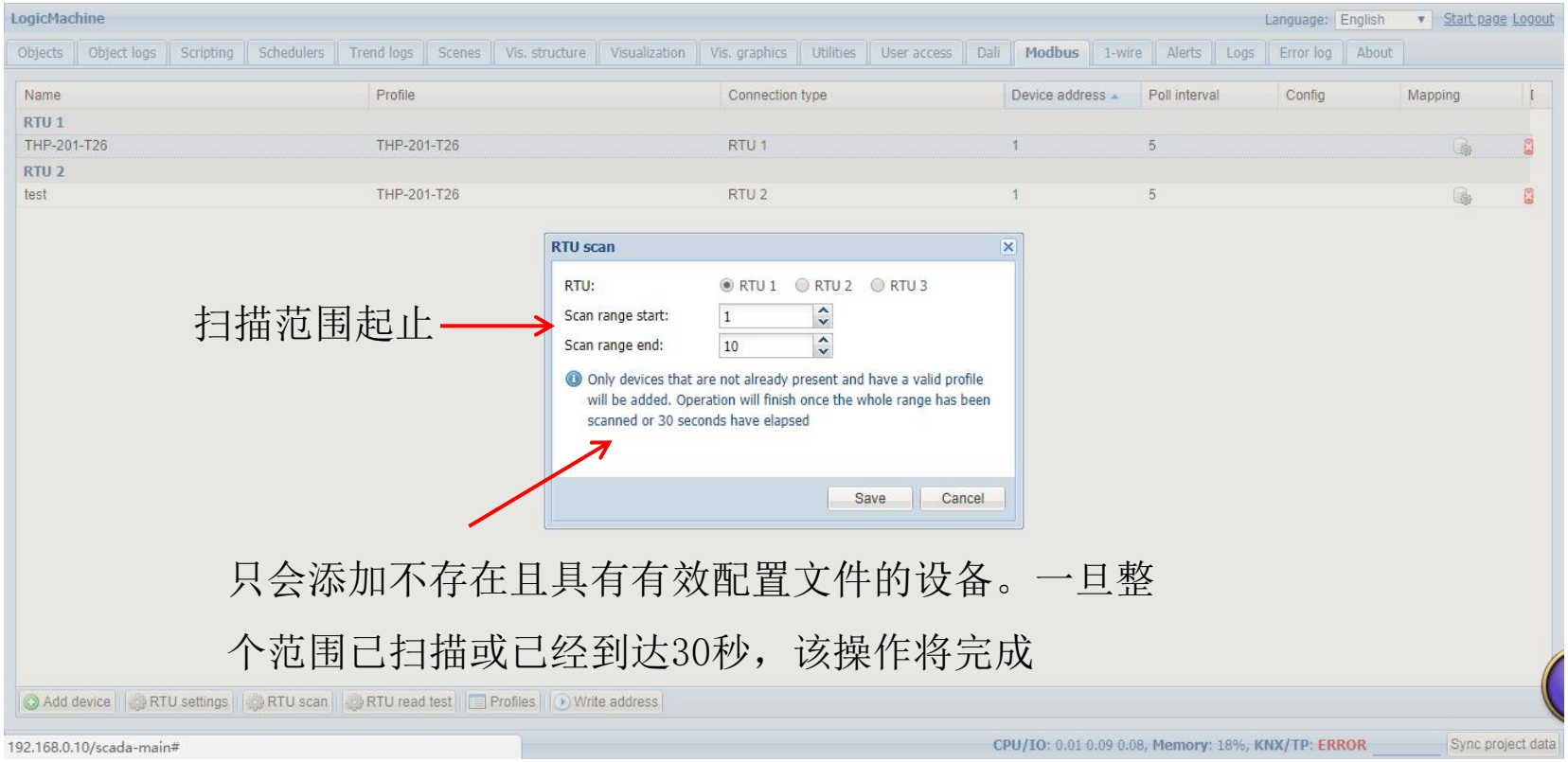
Logic Machine > Modbus > Mapping



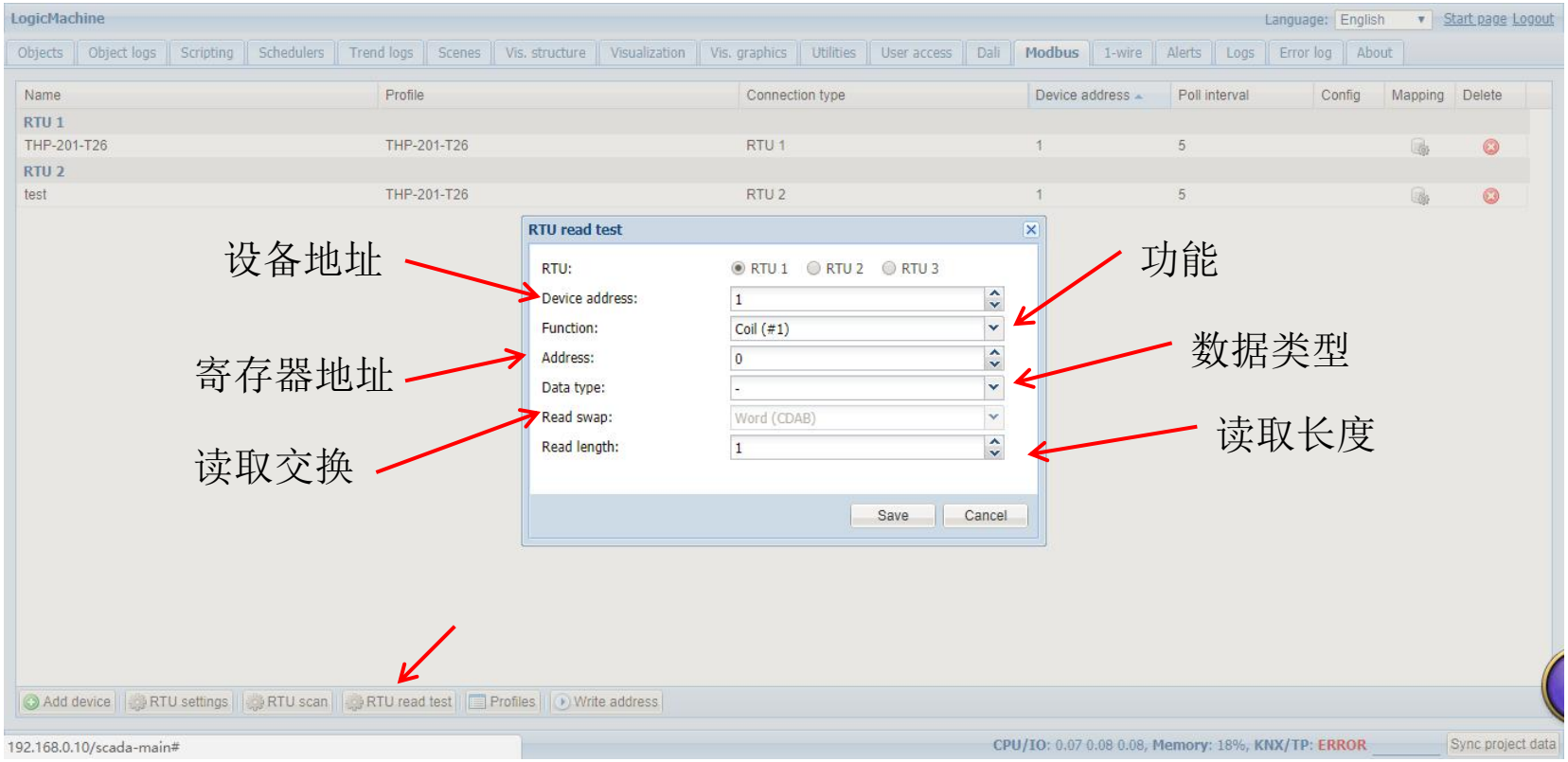
Logic Machine > Modbus > Mapping



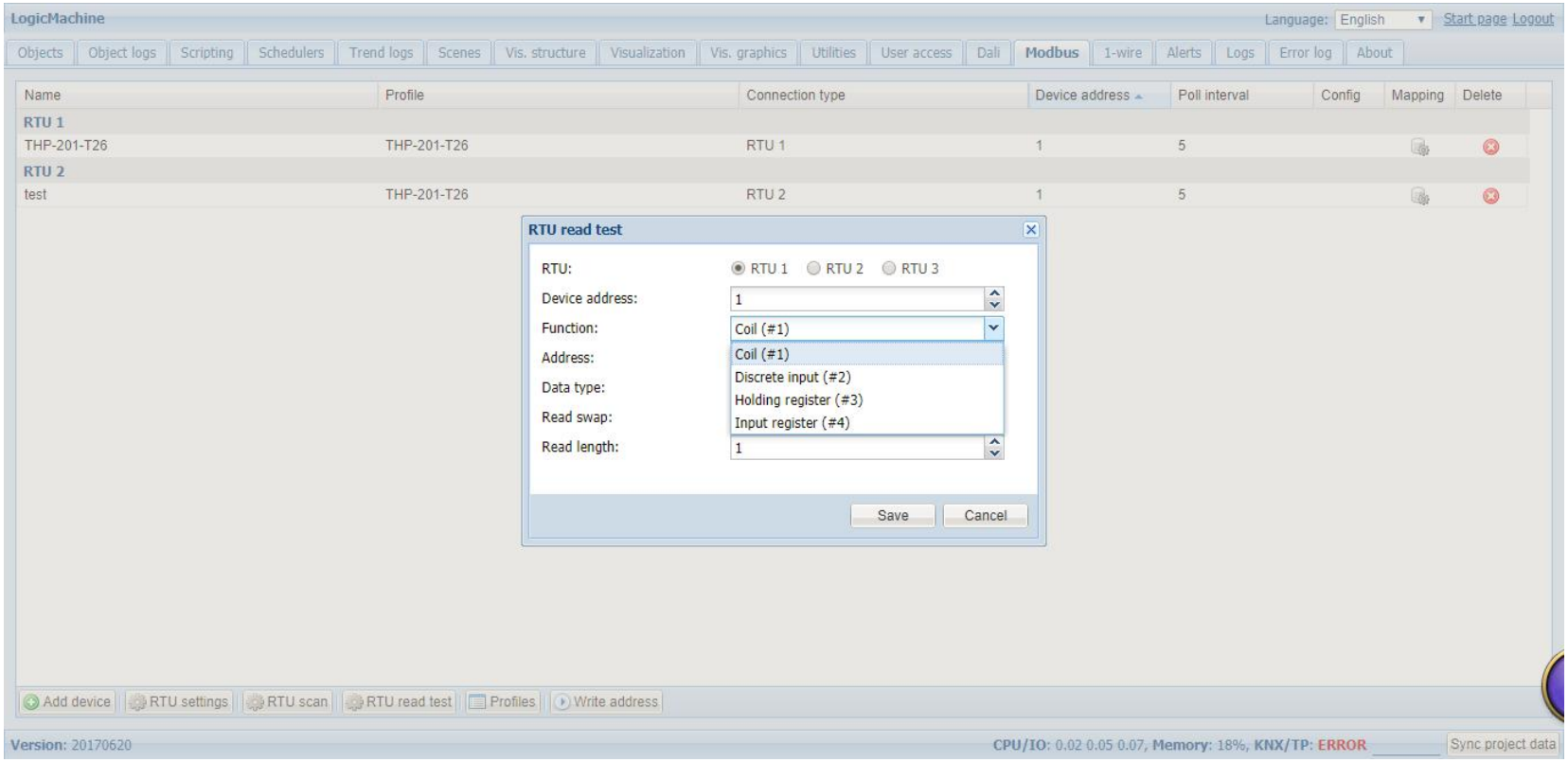
Logic Machine > Modbus > RTU scan



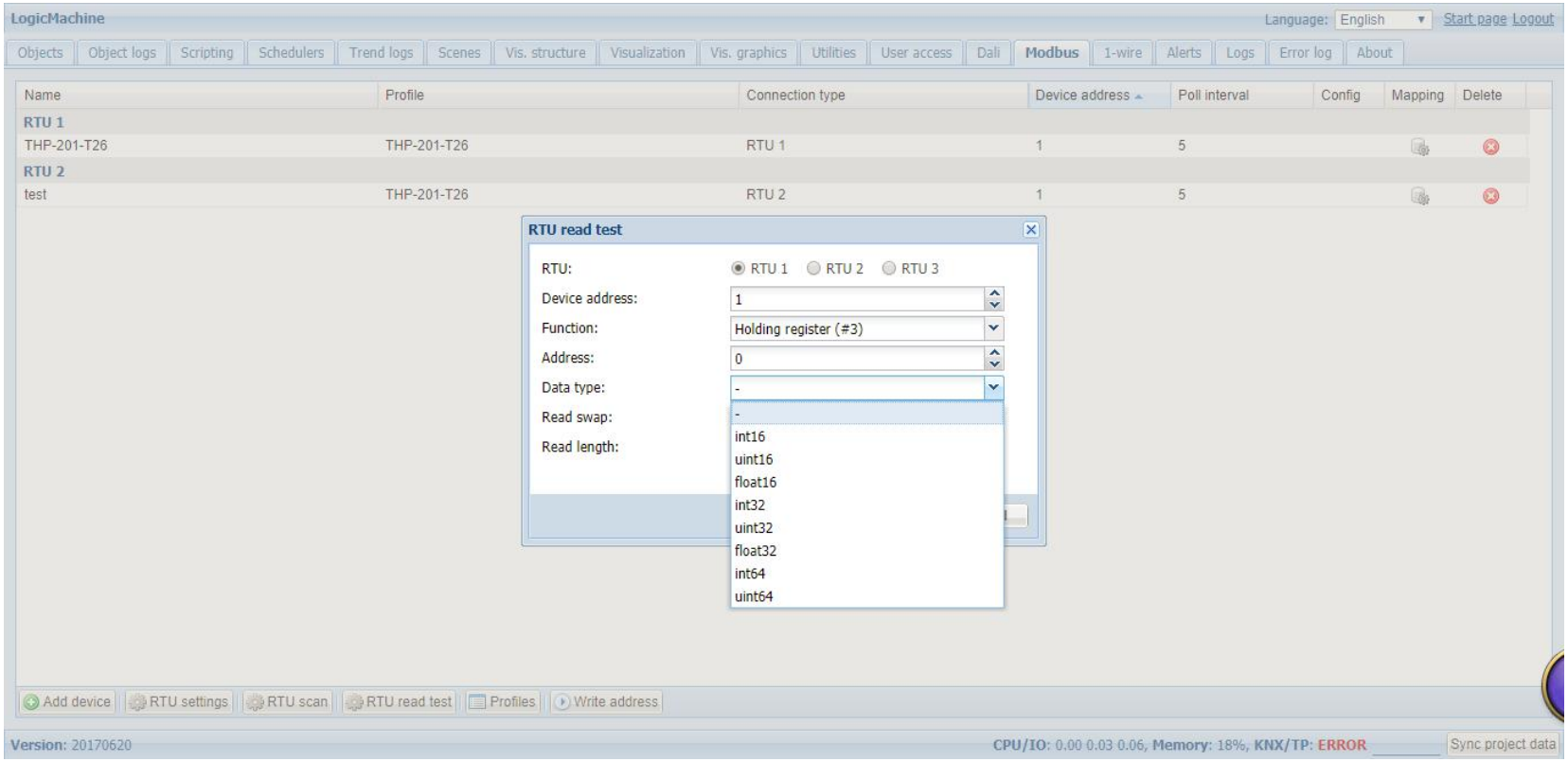
Logic Machine > Modbus > RTU read test



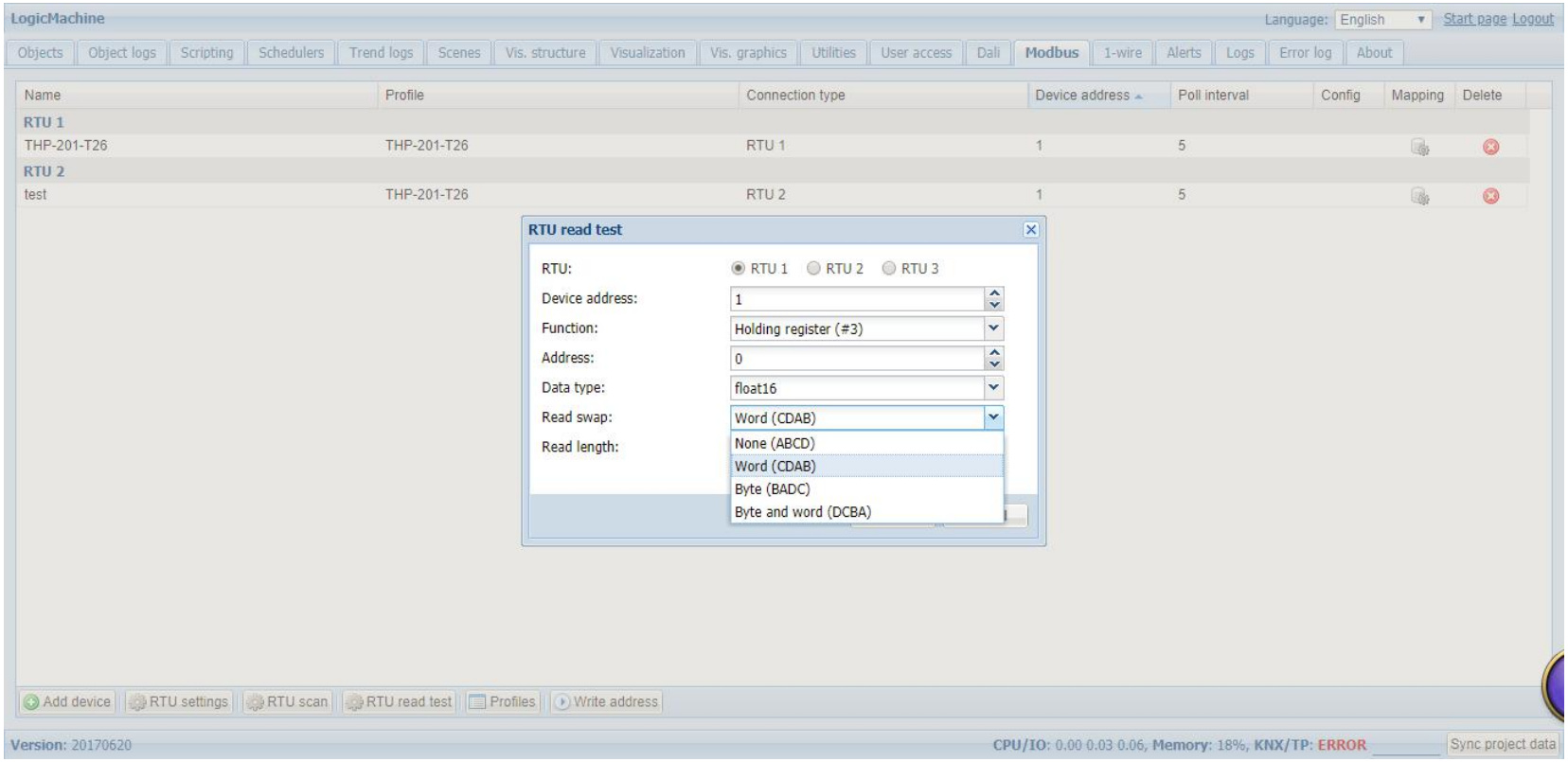
Logic Machine > Modbus > RTU read test



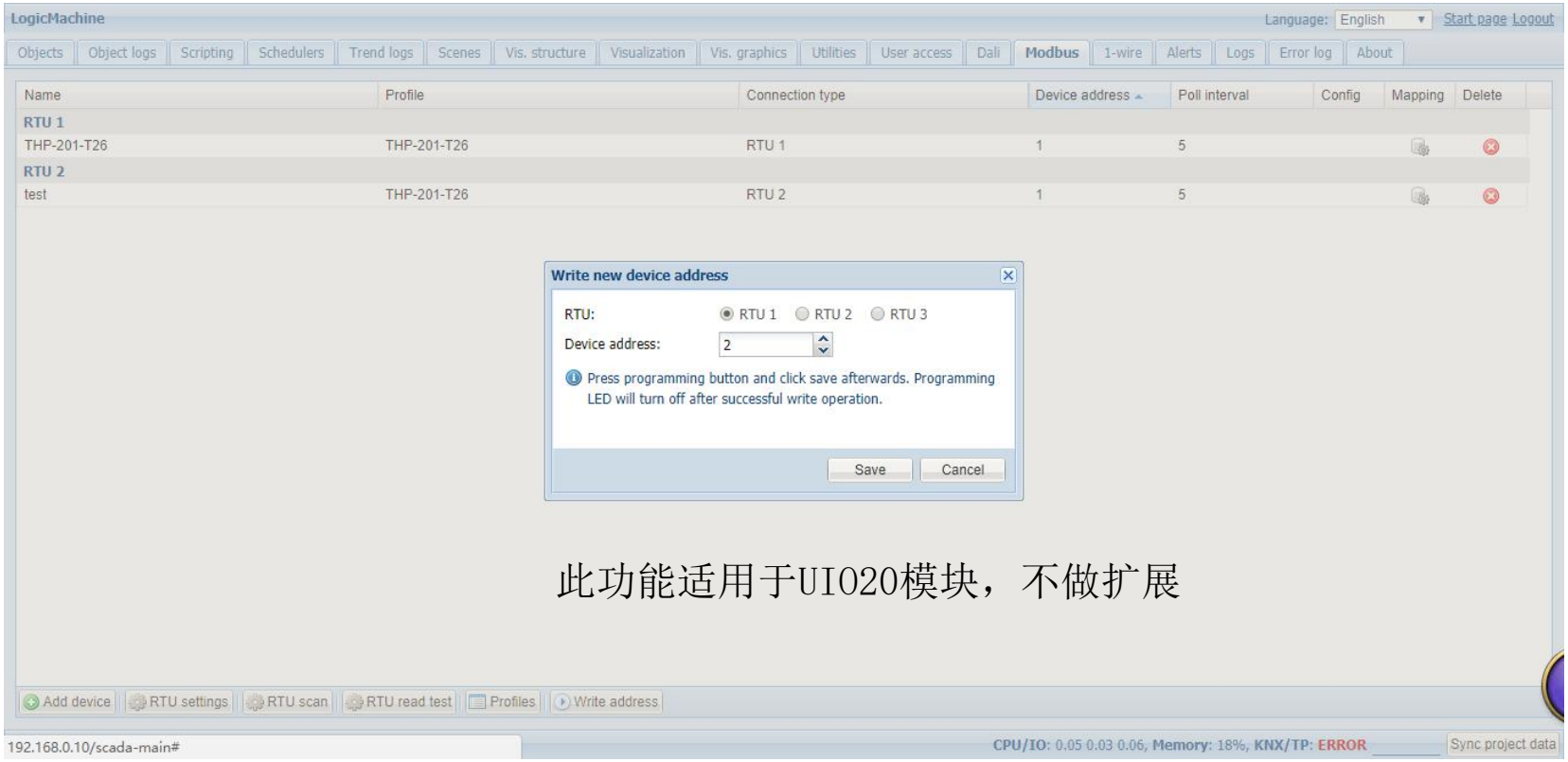
Logic Machine > Modbus > RTU read test



Logic Machine > Modbus > RTU read test



Logic Machine > Modbus > Write address



此功能适用于UIO20模块，不做扩展

Logic Machine > Modbus > Profile edit

THP-201-T26.json

THP-201-T26.json - 记事本

文件(F) 编辑(E) 格式(O) 查看(V) 帮助(H)


```
{
  "manufacturer": "Embedded Systems--stephen.song",
  "description": "THP-201-T26",
  "mapping": [
    { "name": "Temp_Measurement_",                  "bus_datatype": "float32",      "type": "inputre
    { "name": "Humi_Measurement_",                  "bus_datatype": "float32",      "type": "inputre

    { "name": "Modbus_Address_",                    "bus_datatype": "uint16",     "type": "register"
    { "name": "Modbus_Baud_Rate_",                  "bus_datatype": "uint16",     "type": "register"
    { "name": "Modbus_Parity_Bit_and_Stop_Bit_",    "bus_datatype": "uint16",     "type": "register"
    { "name": "Backlight_Status_",                  "bus_datatype": "uint16",     "type": "register"

  ]
}
```


20160806TOSHIBA-641.json

ZLGL-pm25.json - 记事本

文件(F) 编辑(E) 格式(O) 查看(V) 帮助(H)


```
{
    "manufacturer": "Embedded Systems",
    "description": "GO3-PM2.5",
    "mapping": [
        {
            "name": "PM 2.5",
            "bus_datatype": "float32",
            "type": "inputregister",
            "address": 2,
            "datatype": "float32",
            "units": "ug/m3"
        },
        {
            "name": "act temp",
            "bus_datatype": "float32",
            "type": "inputregister",
            "address": 4,
            "datatype": "float32",
            "units": "C"
        },
        {
            "name": "act humidity",
            "bus_datatype": "float32",
            "type": "inputregister",
            "address": 6,
```

embedded automation

Back

LM Modbus profile description

Profile fields

`manufacturer` **String** **Required** manufacturer（制造商，注明由哪家制造商或个人编辑的）

Manufacturer name, example: `Embedded Systems`

`description` **String** **Required** description（描述，注明modbus设备型号等）

Device description, example: `Universal 16+4 I/O module`

`timeout` **Number** timeout（超时连接，此功能已有，可忽略）

Overrides default response timeout of 0.5 seconds for RTU or 3 seconds for TCP

`product_code` **String**

Product code which can be used for automatic profile mapping after scan description, obtained from the device via read device identification object id 1 request

`read_swap` **Boolean/String**

Sets global byte/word swap order during conversion (endianness). Same as `read_swap` field for mapping

`read_delay` **Number**

Adds a delay in seconds (max 1 second) between consecutive read requests from the slave, should not be used for most slaves

embedded automation

Mapping fields

`name` **String** **Required**

Object name, example: `Output 2`

name（名称，注明控制对象的名称，例如空调开关、设置温度、当前环境温度等）

`bus_datatype` **String/Number** **Required**

KNX object data type, key from `dt` table, example: `float32`

bus_datatype（KNX数据类型，注明要映射到KNX总线上的数据类型）

`type` **String** **Required**

Modbus register type, possible values: `coil` `discreteinput` `register` `inputregister`

type（modbus数据类型，例如coil（线圈）、discreteinput（离散输入）、register（寄存器，即保持寄存器）、inputregister（输入寄存器））

`address` **Number** **Required**

Register address (0-based)

address（modbus寄存器地址，从0起始）

`writable` **Boolean**

Set to `true` to enable writing to `coil` or `register`

writable（设置coil或register是否可写：true，false）

`write_only` **Boolean**

Set to `true` to disable reading `coil` or `register` value when `writable` is enabled

write_only（设置coil或register是否只可写且不可读：true，false）

`write_multiple` **Boolean**

Set to `true` to force write by using multiple coil/register function even when writing to a single coil or register

write_multiple（设置coil或register是否可用multiple功能进行多组写值）

embedded automation

`datatype` **String** datatype（Modbus值数据类型，读取长度基于数据长度，数据转换自动进行）

Modbus value data type. Read length is chosen based on data type, data conversion is done automatically.
Possible values: `uint16` `int16` `float16` `uint32` `int32` `float32` `uint64` `int64` `quad10k` `s10k`

`value_delta` **Number**

New value is sent when the difference between previously sent value and current value is larger than delta. Defaults to 0 (send after each read)

value_delta（值偏移量，例如当前值为80，偏移量为5，则值在75-85之间变化时，，当前值不变）

`value_base` **Number** value_base（将指定的数值添加到结果值当中）

Add specified number to the resulting value

`value_multiplier` **Number** value_multiplier（如下公式）

Multiply resulting value by the specified number `value = value_base + value * value_multiplier`

`value_bitmask` **Number** value_bitmask（如下公式）

Bit mask to apply, shifting is done automatically using Count Trailing Zeros (CTZ) function
Example:

```
value = 0xABCD
mask = 0x0F00
result = (value & mask) >> CTZ(mask) = (0xABCD & 0x0F00) >> 8 = 0xB
```

`value_nan` **Array** value_nan（16 bit的整数列，如果指定并且读取操作返回相同的数组，则不进行进一步的值处理）

Array of 16-bit integers. If specified and read operation returns the same array no further processing of value is done

embedded automation

`value_conv` **String** **Internal** value_conv（一种内置的卷积函数）

Apply one of built-in convertion functions

`value_custom` **String/Object** value_custom（内置列举的名称或key—>value映射清单，key未找到返回值为0）

Name of a built-in enumeration or a list of `key -> value` mapping, resulting value will be 0 if key is not found

`value_default` **Boolean/Number** value_default（当coil或register值不能读取时，作为默认值显示）

Default value that is set when coil/register cannot be read

`internal` **Boolean** internal（当设置为true时对用户不可见，）

Not visible to user when set to `true`, should be used for `scale` registers

`units` **String** units（KNX对象的单位/后缀）

KNX object units/suffix

`address_scale` **Number** address_scale（16 bit的整数列，如果指定并且读取）

Address of register containing value scale `value = value * 10 ^ scale`

`read_count` **Number** read_count（立即读取寄存器的数量，对于某些设备只支持读取指定区域的寄存器）

Number of registers to be read at once (for devices that only support reading of a specific block of registers)

embedded automation

`read_swap` **Boolean/String** read_swap（读取交换，交换byte/word顺序，默认值为word交换）

Swap byte/word order during conversion (endianness). Default value is word (2-byte) swap.
Possible string values: `n` (no swap), `w` (word swap), `b` (byte swap), `bw` (byte and word swap)
Example:

```
no swap: 0xABCD
word swap: 0xCDAB
byte swap: 0xBADC
byte and word swap: 0xDCBA
```

`read_offset` **Number** read_offset（将指定的数值添加到结果值当中）

Position of first register of data from the block of registers (0-based)

`bus_address` **String (Group address)** bus_address（映射的KNX群组地址）

Group address of mapped object. Recommended to use only during development

embedded automation

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