

Demo_ARMHF is a virtual machine which can work as Edgeline Device. Customer can use it to learn some Edgeline functions without real device.

Run Demo_ARMHF

Double click the qemu-launcher.exe

Data (D:) > fuyu > DEMO_ARMHF_Linux_EdgeLink_2.6.2_Release_20080718 (1)				
名称	修改日期	类型	大小	
qemu	2020/8/7 14:42	文件夹		
demo_armhf_rootfs.qcow2	2020/8/7 14:41	QCOW2 文件	41,856 KB	
qemu-launcher.exe	2020/8/7 14:36	应用程序	1,756 KB	
vexpress-v2p-ca9.dtb	2020/8/7 14:42	DTB 文件	15 KB	
zImage	2020/8/7 14:42	文件	3,604 KB	

QEMU Launcher For EdgeLink Demo Device v1.0.0

Hardware

Memory Size: 512 MB COM Port: COM4

Port forward (Format: <host port>[-<demo device port>])

☒ SSH 22 ☒ AdvAgent (TCP 6001, UDP 6513)

☒ HTTP 111-80 ☒ HTTPS 222-443

☒ Modbus 502 ☒ WASCADA 504

☒ BACnet 47808 ☒ IEC-104 2404

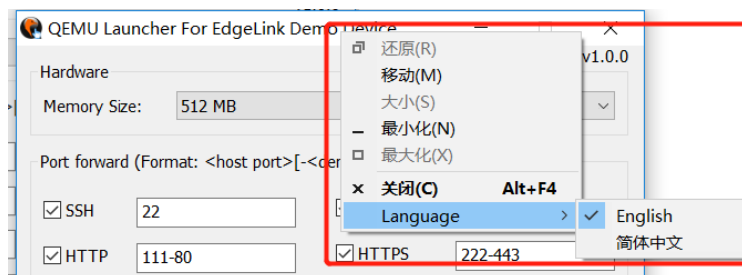
☒ OPC-UA 51210

Additional TCP Ports (comma seperated, example: 25,110,8080-80):

Additional UDP Ports (comma seperated, example: 25,110,8080-80):

Additional QEMU Parameters

You can right click the title to change the language.



Memory Size: the memory size you want to set for the simulator device.

COM port: the COM port you want to use for the simulator device. This com port in your PC will work as the device's COM port. In my example, I have use COM4 to connect to the collected device, so I select COM4.

Port Forward: the port of PC will be used for the simulator device. If the default port is occupied by the PC, you should arrange another one for the device. For example, in my pc, 443 is occupied, I want to set 222 instead 443

port. So I fill in “222-443”, it means access 222 port of PC is equal to access 443 port of device.

Click Launch, set the serial port' s parameters (language will follow the system of computer)



The image shows a Windows dialog box titled "COM4 属性" (COM4 Properties). The "端口设置" (Port Settings) tab is selected. The dialog contains five dropdown menus for configuring serial port parameters:

- 位/秒(B): 9600
- 数据位(D): 8
- 奇偶校验(P): 无
- 停止位(S): 1
- 数据流控制(F): 无

Below these settings is a button labeled "还原默认值(R)" (Restore Defaults). At the bottom of the dialog are three buttons: "确定" (OK), "取消" (Cancel), and "应用(A)" (Apply).

QEMU (EdgeLink Demo)

Machine View



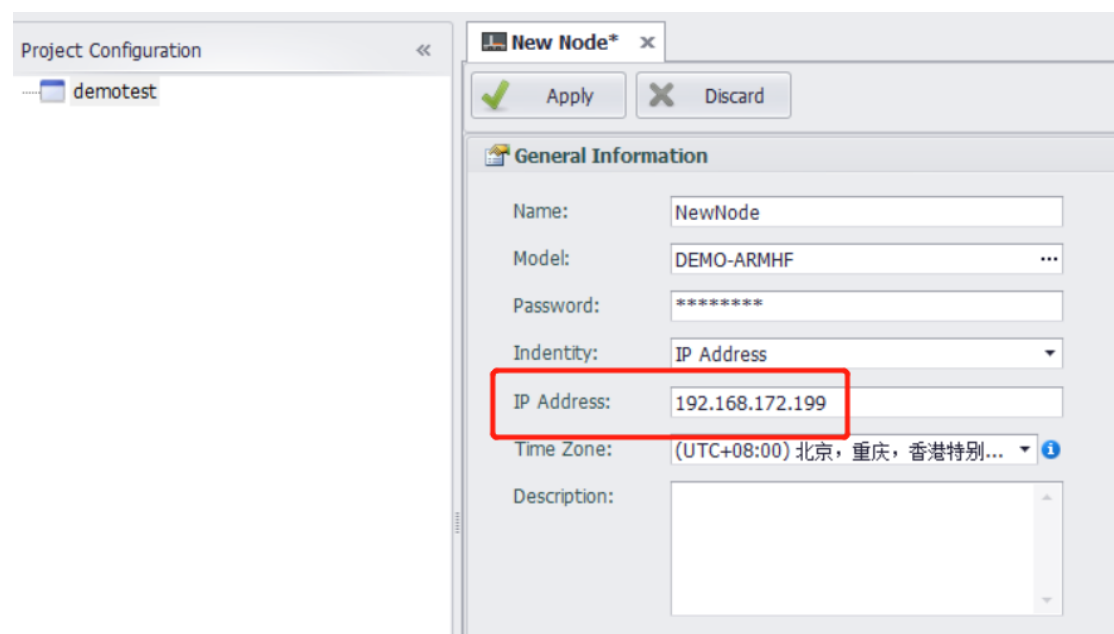
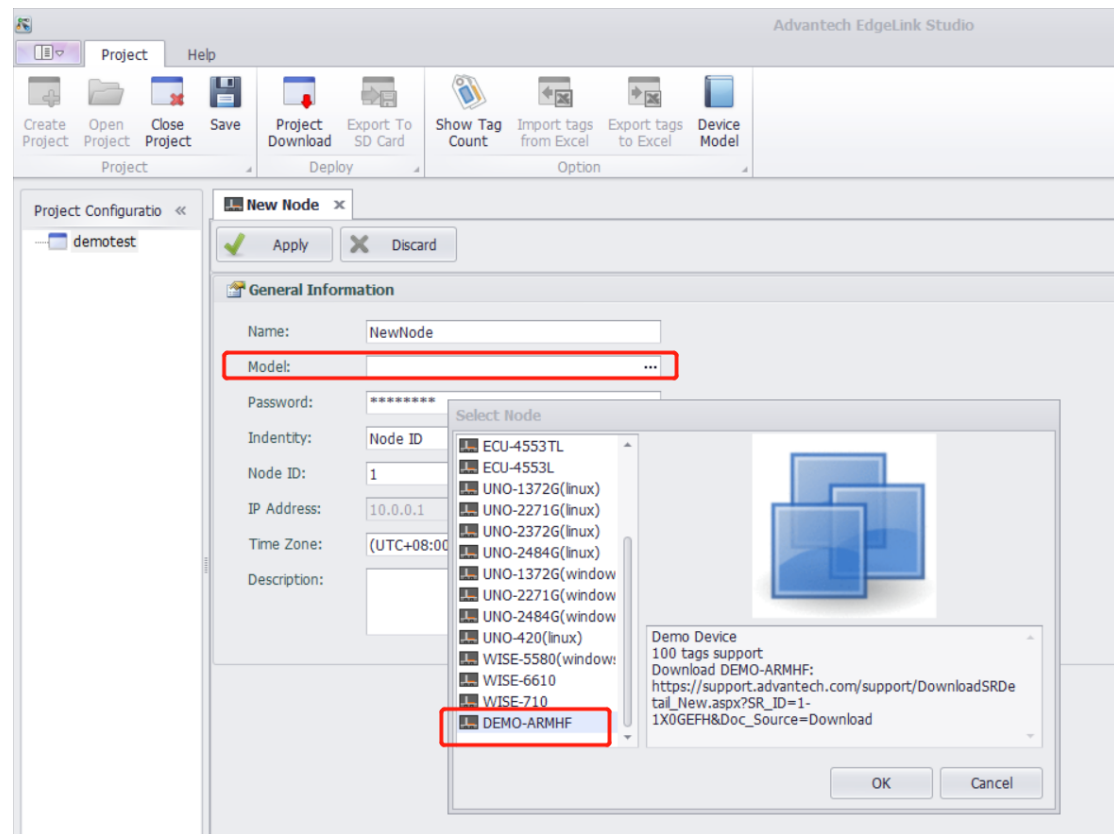
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00/10006000.kmi/serial0/input/input0
mmcblk0: mmc0:4567 QEMU! 2.00 GiB
aaci-pl041 10004000.aaci: ARM AC'97 Interface PL041 rev0 at 0x10004000, irq 33
aaci-pl041 10004000.aaci: FIFO 512 entries
--creat pro/board from - arch/arm/oprofile/common.c
oprofile: using arm/armv7-ca9
NET: Registered protocol family 10
sit: IPv6, IPv4 and MPLS over IPv4 tunneling driver
NET: Registered protocol family 17
ipnet: Installing 9P2000 support
Registering SWP/SWPB emulation handler
rtc-pl031 10017000.rtc: setting system clock to 2020-09-09 08:53:26 UTC (1599641606)
ALSA device list:
  #0: ARM AC'97 Interface PL041 rev0 at 0x10004000, irq 33
input: ImExPS/2 Generic Explorer Mouse as /devices/platform/smb004000000/smb004000000:motherboard/smb004000000:motherboard:iofpg
a07,00000000/10007000.kmi/serial1/input/input2
random: fast init done
random: crng init done
EXT4-fs (mmcblk0): recovery complete
EXT4-fs (mmcblk0): mounted filesystem with ordered data mode. Opts: (null)
VFS: Mounted root (ext4 filesystem) on device 179:0.
Freeing unused kernel memory: 1024K
EXT4-fs (mmcblk0): re-mounted. Opts: data=ordered
Failed to set owner -root- for -/var/lock/subsys-.
Failed to set mode -0755- for -/var/lock/subsys-.
Failed to set owner -root- for -/var/run/utmp-.
Failed to set mode -0664- for -/var/run/utmp-.
Failed to set owner -root- for -/var/run/resolv.conf-.
Failed to set mode -0644- for -/var/run/resolv.conf-.
Failed to set owner -root- for -/var/run/resolv.conf-.
Failed to set mode -0644- for -/var/run/resolv.conf-.
Failed to set owner -root- for -/var/run/sepermit-.
Failed to set mode -0755- for -/var/run/sepermit-.
Failed to set owner -root- for -/var/run/upa_suppliment-.
Failed to set mode -0700- for -/var/run/upa_suppliment-.
Generic PHY 4e000000.ethernet-ffffffff:01: attached PHY driver [Generic PHY] (mii_bus:phy_addr=4e000000.ethernet-ffffffff:01, irq=-1)
smc911x 4e000000.ethernet eth0: SMC911x/921x identified at 0xa1290000, IRQ: 31
IPv6: ADDRCONF(NETDEV_UP): eth0: link is not ready
IPv6: ADDRCONF(NETDEV_CHANGE): eth0: link becomes ready

DEMO-ARMHF Standard Edition image version 2.6.2 Release Aug 07 2020
demo_armhf login:
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Edgeline Configuration

1. Project Configuration

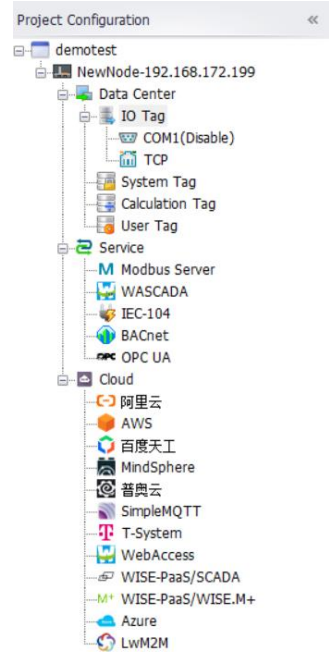
Create a project and select the model to DEMO-ARMHF.



The IP address is your PC's IP. Because the demo machine is running on your PC.

Then you can see the function tree to find out which function we support in simulator device.

They are data collecting/data transfer and MQTT.



2. data collecting/data transfer