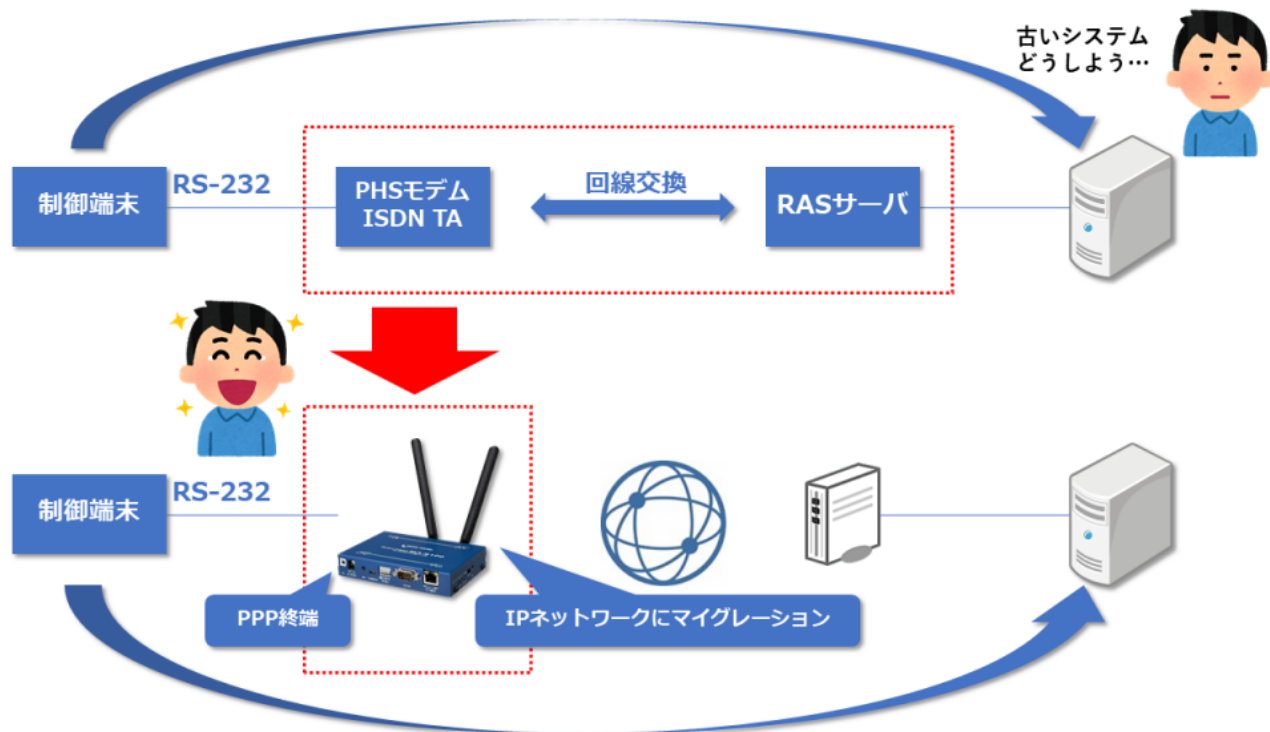


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疑似モデム機能の利用

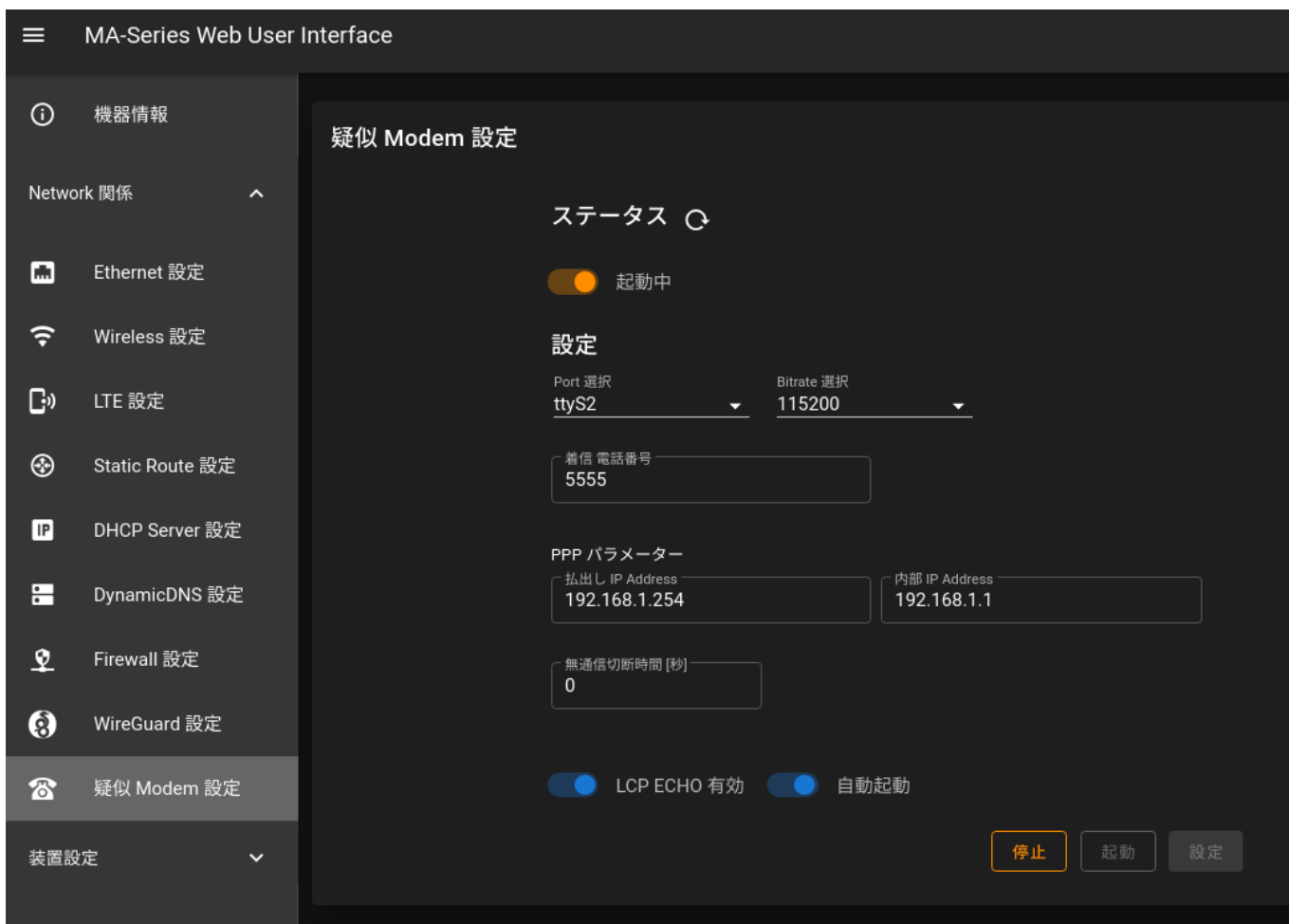
いままでモデム + 電話回線や PHS で PPP 接続を行っていた機器の構成の **モデム + 電話回線** の部分を MA-S1xx/MA-E3xx¹⁾ で置き換えることができます。



設定

本装置側

MA-S1xx/MA-E3xx 側の設定は下記 WebUI の画面で行います。



本装置側の PPP I/F は“**ppp100**”になります。インターネットなどに抜ける際は、適切なルーティング設定が必要です。

接続機器側

本装置とはRS-232C [インターリンクケーブル^{2\)}](#)(例 [サンワサプライ RS-232Cケーブル\(インタリンク・クロス2m\)](#)) で接続します。

Linux で PPP 接続をする場合は、下記のような設定になります。

/etc/ppp/peers/ppp0

ppp0

```
unit 0
hide-password
noauth
connect "/usr/sbin/chat -v -f /etc/chatscripts/ppp0"
debug
modem
lock
```

```
/dev/ttyUSB0
115200
noipdefault
defaultroute
replacedefaultroute
maxfail 40
remotename ppp0
ipparam ppp0

nopersist
usepeerdns
```

/etc/chatscripts/ppp0

ppp0

```
TIMEOUT 10
' ' ATZ
OK ATE0
ABORT BUSY
ABORT 'NO CARRIER'
ABORT VOICE
ABORT 'NO DIALTONE'
ABORT 'NO DIAL TONE'
ABORT 'NO ANSWER'
ABORT DELAYED
ABORT ERROR
TIMEOUT 30

OK ATDT5555
CONNECT \d\c
```

※ ATDT5555 の電話番号指定は、WebUI の『着信 電話番号』で設定した番号にします。

実行例

PPP 接続を実行した場合のログの例です。

```
Aug 17 11:38:03 lg-gram pppd[4125]: pppd 2.4.7 started by root, uid 0
Aug 17 11:38:04 lg-gram chat[4127]: timeout set to 10 seconds
Aug 17 11:38:04 lg-gram chat[4127]: send (ATZ^M)
Aug 17 11:38:04 lg-gram chat[4127]: expect (OK)
```

```
Aug 17 11:38:04 lg-gram chat[4127]: ATZ^M^M
Aug 17 11:38:04 lg-gram chat[4127]: OK
Aug 17 11:38:04 lg-gram chat[4127]: -- got it
Aug 17 11:38:04 lg-gram chat[4127]: send (ATE0^M)
Aug 17 11:38:04 lg-gram chat[4127]: abort on (BUSY)
Aug 17 11:38:04 lg-gram chat[4127]: abort on (NO CARRIER)
Aug 17 11:38:04 lg-gram chat[4127]: abort on (VOICE)
Aug 17 11:38:04 lg-gram chat[4127]: abort on (NO DIALTONE)
Aug 17 11:38:04 lg-gram chat[4127]: abort on (NO DIAL TONE)
Aug 17 11:38:04 lg-gram chat[4127]: abort on (NO ANSWER)
Aug 17 11:38:04 lg-gram chat[4127]: abort on (DELAYED)
Aug 17 11:38:04 lg-gram chat[4127]: abort on (ERROR)
Aug 17 11:38:04 lg-gram chat[4127]: timeout set to 30 seconds
Aug 17 11:38:04 lg-gram chat[4127]: expect (OK)
Aug 17 11:38:04 lg-gram chat[4127]: ^M
Aug 17 11:38:04 lg-gram chat[4127]: ATE0^M^M
Aug 17 11:38:04 lg-gram chat[4127]: OK
Aug 17 11:38:04 lg-gram chat[4127]: -- got it
Aug 17 11:38:04 lg-gram chat[4127]: send (ATDT5555^M)
Aug 17 11:38:04 lg-gram chat[4127]: expect (CONNECT)
Aug 17 11:38:04 lg-gram chat[4127]: ^M
Aug 17 11:38:04 lg-gram chat[4127]: ^M
Aug 17 11:38:04 lg-gram chat[4127]: CONNECT
Aug 17 11:38:04 lg-gram chat[4127]: -- got it
Aug 17 11:38:04 lg-gram chat[4127]: send (\d)
Aug 17 11:38:05 lg-gram pppd[4125]: Script /usr/sbin/chat -v -f
/etc/chatscripts/ppp0 finished (pid 4126), status = 0x0
Aug 17 11:38:05 lg-gram pppd[4125]: Serial connection established.
Aug 17 11:38:05 lg-gram pppd[4125]: using channel 3
Aug 17 11:38:05 lg-gram pppd[4125]: Using interface ppp0
Aug 17 11:38:05 lg-gram pppd[4125]: Connect: ppp0 <--> /dev/ttyUSB0
Aug 17 11:38:05 lg-gram NetworkManager[952]: <info> [1629167885.7692]
manager: (ppp0): new Ppp device (/org/freedesktop/NetworkManager/Devices/6)
Aug 17 11:38:05 lg-gram systemd-udevd[4128]: ethtool: autonegotiation is
unset or enabled, the speed and duplex are not writable.
Aug 17 11:38:06 lg-gram pppd[4125]: sent [LCP ConfReq id=0x1 <asynctest
<magic 0xb452adfb> <pcomp> <accomp>]
Aug 17 11:38:07 lg-gram pppd[4125]: rcvd [LCP ConfReq id=0x1 <asynctest
<magic 0xade986dc> <pcomp> <accomp>]
Aug 17 11:38:07 lg-gram pppd[4125]: sent [LCP ConfAck id=0x1 <asynctest
<magic 0xade986dc> <pcomp> <accomp>]
Aug 17 11:38:09 lg-gram pppd[4125]: sent [LCP ConfReq id=0x1 <asynctest
<magic 0xb452adfb> <pcomp> <accomp>]
Aug 17 11:38:09 lg-gram pppd[4125]: rcvd [LCP ConfAck id=0x1 <asynctest
<magic 0xb452adfb> <pcomp> <accomp>]
Aug 17 11:38:09 lg-gram pppd[4125]: sent [LCP EchoReq id=0x0
magic=0xb452adfb]
Aug 17 11:38:09 lg-gram pppd[4125]: sent [CCP ConfReq id=0x1 <deflate 15>
<deflate(old#) 15> <bsd v1 15>]
Aug 17 11:38:09 lg-gram pppd[4125]: sent [IPCP ConfReq id=0x1 <compress VJ
```

```
0f 01> <addr 0.0.0.0> <ms-dns1 0.0.0.0> <ms-dns2 0.0.0.0>]
Aug 17 11:38:09 lg-gram pppd[4125]: rcvd [LCP EchoReq id=0x0
magic=0xade986dc]
Aug 17 11:38:09 lg-gram pppd[4125]: sent [LCP EchoRep id=0x0
magic=0xb452adfb]
Aug 17 11:38:09 lg-gram pppd[4125]: rcvd [CCP ConfReq id=0x1 <deflate 15>
<deflate(old#) 15> <bsd v1 15>]
Aug 17 11:38:09 lg-gram pppd[4125]: sent [CCP ConfAck id=0x1 <deflate 15>
<deflate(old#) 15> <bsd v1 15>]
Aug 17 11:38:09 lg-gram pppd[4125]: rcvd [IPCP ConfReq id=0x1 <compress VJ
0f 01> <addr 192.168.1.1>]
Aug 17 11:38:09 lg-gram pppd[4125]: sent [IPCP ConfAck id=0x1 <compress VJ
0f 01> <addr 192.168.1.1>]
Aug 17 11:38:09 lg-gram pppd[4125]: rcvd [LCP EchoRep id=0x0
magic=0xade986dc]
Aug 17 11:38:09 lg-gram pppd[4125]: rcvd [CCP ConfAck id=0x1 <deflate 15>
<deflate(old#) 15> <bsd v1 15>]
Aug 17 11:38:09 lg-gram pppd[4125]: Deflate (15) compression enabled
Aug 17 11:38:09 lg-gram pppd[4125]: rcvd [IPCP ConfNak id=0x1 <addr
192.168.1.254> <ms-dns1 192.168.1.1> <ms-dns2 192.168.1.1>]
Aug 17 11:38:09 lg-gram pppd[4125]: sent [IPCP ConfReq id=0x2 <compress VJ
0f 01> <addr 192.168.1.254> <ms-dns1 192.168.1.1> <ms-dns2 192.168.1.1>]
Aug 17 11:38:09 lg-gram pppd[4125]: rcvd [IPCP ConfAck id=0x2 <compress VJ
0f 01> <addr 192.168.1.254> <ms-dns1 192.168.1.1> <ms-dns2 192.168.1.1>]
Aug 17 11:38:09 lg-gram pppd[4125]: replacing old default route to wlp1s0
[172.16.1.66]
Aug 17 11:38:09 lg-gram pppd[4125]: local IP address 192.168.1.254 <-----
----- 割り当てられた IP アドレス
Aug 17 11:38:09 lg-gram pppd[4125]: remote IP address 192.168.1.1
Aug 17 11:38:09 lg-gram pppd[4125]: primary DNS address 192.168.1.1 <---
DNS server
Aug 17 11:38:09 lg-gram pppd[4125]: secondary DNS address 192.168.1.1
Aug 17 11:38:09 lg-gram pppd[4125]: Script /etc/ppp/ip-up started (pid 4135)
Aug 17 11:38:09 lg-gram NetworkManager[952]: <info> [1629167889.8956]
device (ppp0): state change: unmanaged -> unavailable (reason 'connection-
assumed', sys-iface-state: 'external')
Aug 17 11:38:09 lg-gram NetworkManager[952]: <info> [1629167889.9021]
device (ppp0): state change: unavailable -> disconnected (reason 'none',
sys-iface-state: 'external')
Aug 17 11:38:09 lg-gram dnsmasq[1123]: reading /run/dnsmasq/resolv.conf
Aug 17 11:38:09 lg-gram dnsmasq[1123]: using nameserver 192.168.1.1#53
Aug 17 11:38:09 lg-gram pppd[4125]: Script /etc/ppp/ip-up finished (pid
4135), status = 0x0
```

IP アドレスとして 192.168.1.254 が割り当てられ、本装置の IP アドレスが DNS サーバーとして設定されていることが確認できます。

1)

v5.0.0β4で対応

2)

RTS-CTS, DTR-DSR がクロス接続されているもの

From:

<https://www.centurysys.jp/> - MA-X/MA-S/MA-E/IP-K Developers' Wiki

Permanent link:

https://www.centurysys.jp/doku.php?id=mas1xx_ope:modem_emulation_ppp:start

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