Quick Note 37

Configuring a Digi Transport serial port for TCP Socket using the Serial Port Wizard

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1 INTRODUCTION

1.1 Assumptions

This guide has been written for use by technically competent personnel with a good understanding of the communications technologies used in the product and of the requirements for their specific application. It also assumes a basic ability to access and navigate a Digi Transport router.

This guide also assumes that a licence file has been received further to purchasing upgrade options from Digi. Please contact a Digi Sales Representative for further details on how to buy options for Digi Transport routers.

This application note applies only to:

**Model:** DIGI Transport WR41/44/21

**Firmware versions:** 5.169 and later

Please note: This application note has been specifically rewritten for firmware release 5.169 and later and will not work on earlier versions of firmware. Please contact tech.support@digi.com if your require assistance in upgrading the firmware of the Transport router.
## Version

<table>
<thead>
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<th>Version Number</th>
<th>Status</th>
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<tr>
<td>1.0</td>
<td>Published</td>
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3 CONFIGURATION

3.1 Start Serial Port Wizard

Wizards

Select Serial interface wizard and click Next.

Select the port that will be used, Port 0 and click Next.
Chose **TCP/UDP Sockets Profile** and click **Next**.

Select **TCP** for the desired transport method and click **Next**.

Select **Listen** (The server will initiate connection to the Transport) and click **Next**.
Enter **2101** as the port to listen to and click **Next**.

Click **Confirm** to finalize the serial port configuration wizard.
3.1.1 Configure serial settings

Configuration – Network > Interfaces > Serial > Serial Port 0

Adjust serial settings to the device connected on the Transport, in this example, **9600 8N1, No Flow Control**.

3.1.2 Verify listening socket

Management – Connections > IP Connections > General Purpose Sockets

*This figure shows that the Transport is listening on TCP port 2101 for connections to ASY 0 (Serial Port 0)*
3.2 Testing

Connect the Transport to the Local COM port of a computer or another serial device.
Open a terminal application like PuTTY to the IP address of the Transport and TCP Port 2101.

Data is sent from TCP socket and received on COM1.

Management – Connections > IP Connections > General Purpose Sockets

Connection to the serial port is shown as ESTAB (established)
4 CONFIGURATION

eth 0 IPaddr "10.100.1.170"
eth 0 DNSserver "10.49.8.62"
eth 0 gateway "10.100.1.1"
addp 0 enable ON
rport 0 enabled ON
lapb 0 ans OFF
lapb 0 tinact 120
lapb 1 tinact 120
lapb 3 dtmode 0
lapb 4 dtmode 0
lapb 5 dtmode 0
lapb 6 dtmode 0
ip 0 cidr ON
def_route 0 ll_ent "PPP"
def_route 0 ll_add 1
dhcp 0 IPmin "192.168.1.100"
dhcp 0 respdelms 500
dhcp 0 mask "255.255.255.0"
dhcp 0 gateway "192.168.1.1"
dhcp 0 DNS "192.168.1.1"
ppp 0 timeout 300
ppp 1 name "W-WAN"
ppp 1 phonenum "**98*1#"
ppp 1 username "guest"
ppp 1 IPAddr "0.0.0.0"
ppp 1 timeout 0
ppp 1 use_modem 1
ppp 1 adion 1
ppp 1 autoassert 1
ppp 1 ipanon ON
ppp 1 r_chap OFF
ppp 3 defpak 16
ppp 4 defpak 16
modemcc 0 asy_add 4
modemcc 0 info_asy_add 2
modemcc 0 init_str "+CGREQ=1"
modemcc 0 init_str1 "+CQMIN=1"
modemcc 0 apn "Your.APN.goes.here"
modemcc 0 link_retries 10
modemcc 0 stat_retries 30
modemcc 0 sms_access 1
modemcc 0 sms_concat 0
modemcc 0 init_str_2 "+CGREQ=1"
modemcc 0 init_str1_2 "+CQMIN=1"
modemcc 0 apn_2 "Your.APN.goes.here"
modemcc 0 link_retries_2 10
modemcc 0 stat_retries_2 30
ana 0 anon ON
ana 0 l1on ON
ana 0 lapdon 0
ana 0 asyon 1
ana 0 logsize 45

** cmd 0 autocmd "tcpperm ASY 0 0.0.0.0 2101 -12101 "**

** cmd 0 unitid "ss55"**
** cmd 0 cmdnuma "99"**
** cmd 0 hostname "digi.router"**
** cmd 0 asyled_mode 2**
** cmd 0 tremto 1200**
user 0 access 0
user 1 name "username"
user 1 access 0
user 2 access 0
user 3 access 0
user 4 access 0
user 5 access 0
user 6 access 0
user 7 access 0
user 8 access 0
user 9 access 0
local 0 transaccess 2
sslsvr 0 certfile "cert01.pem"
sslsvr 0 keyfile "privrsa.pem"
ssh 0 hostkey1 "privSSH.pem"
ssh 0 nb_listen 5
ssh 0 v1 OFF
cloud 0 ssl ON
Power Up Profile: 0