

Orion2 Writing Configuration Files, Application Note (#20080627)

Summary

Orion2 (as well as Orion2+) Modems from **FlexDSL** have always some more features than corresponding products from competitors. Here again the most important points, that are of prime importance:

- Components have industrial temperature range (-40°C to +85°C)
- Components never run on the limit because of better specification
- Programmable, flexible and intelligent design, using High-class chipsets
- Complete solution design, including repeaters, including remote power
- Best performance and low power, long life, high quality design

One special feature for Orion2 (and Orion2+) DSL modems is the possibility to generate (with the command DUMP) and to load (with the command LOAD) configuration files. This is described by this application note.

It means that once the modems are configured according to the customer wishes, it is easy to store and create out of the Orion2 modem the configuration file (DUMP files). Every Orion2 model has its specific DUMP file.

As example, those DUMP files can be used for setting up all CPE units for a big network, using the LOAD command and programm all units with the same specific configuration.

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Creating the File

- Connect the target unit to a PC and open the Hyper Terminal (either COM or Telnet)
- Setup the desired target unit according to the desired settings.

Example V51 unit:

```

-----
Running Line Configuration
-----
xDSL                DSL1                DSL2
Mode                : Slave (HTU-R)  Slave (HTU-R)
Extended rates:    OFF                OFF
Line coding        : AUTO                AUTO
Baserate           : AUTO                AUTO
Annex              : A/B                A/B
Payload            : E1-1                NONE
Clock source       : E1-1,Int           E1-2,Int
Reserve            : ---                ---
GS compatible      : OFF

E1                  E1-1                E1-2
G.704 framing      : OFF                OFF
CRC4                : N/A                N/A
AIS Detection       : ON                ON
AIS Generation     : ON                ON
E1 clock
TS into DSL        : NONE                0-31
TS into WAN        : 0-31                NONE

-----
Running Network Configuration
-----
VLANs & QoS
Interfaces          : LAN            WAN1            WAN2            INT
Mode                : access        trunk           trunk           access
QoS                  : 2                3                3                7
VLAN ID              : 1
VLAN1 VID=1         :                +                +
VLAN2 VID=2         :                +                +
VLAN3 VID=3         :                +                +
VLAN4 VID=4         :                +                +
VLAN5 VID=5         :                +                +
VLAN6 VID=6         :                +                +
VLAN7 VID=7         :                +                +
VLAN8 VID=8         :                +                +
OTHER VLANS         :                +                +
QoS for HPQ         :                3                3
Slicing for LPQ     :                512            512

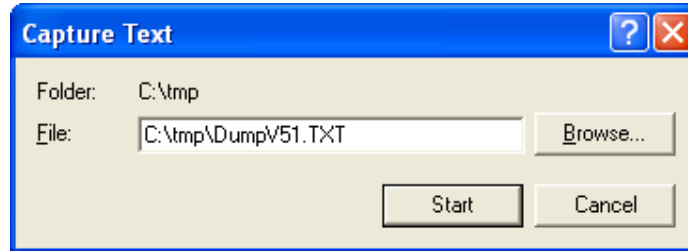
Ethernet:
Speed/Duplex        : auto
System:
MAC address         : 00:0f:d9:00:00:00
IP address          : 192.168.0.234
Subnet mask         : 255.0.0.0
Default gateway     : 192.168.0.254

SNMP:
Send traps to IP:
Community           : public
SET command         : Blocked

-----
CP_NET>

```

- Change to the FMM menu (Fault and maintenance management)
- Open the Capture Text in the Transfer menu of the Hyper Terminal
- Select the desired path and filename for the config file and press the Start button (the menu will disappear)



- Enter DUMP R<CR>, → the terminal will receive parameters from the target unit
- Open the Capture Text in the Transfer menu of the Hyper Terminal and press the Stop button
- Open the dump file (In example C:\tmp\DumpV51.txt) with a simple Text editor (as example Microsoft ® Editor)

The following screen (or a similar) screen will appear:

```

DUMP R
-----
Dump of running configuration
-----
NET.MAC_ADDRESS
00 0F D9 00 00 00
M.DEVICE_ID
FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF\
FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF\
FF
NET.MAC_SPEED
00
SNMP.TRAPIP.0
00 00 00 00
SNMP.TRAPIP.1
00 00 00 00
SNMP.COMMUNITY
70 75 62 6C 69 63 00 00 00 00 00 00 00 00 00 00\
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00\
00
SNMP.BLOCK_SNMP_SET
. FF
M.ALARM_CUTOFF_OLD
20
NET.IP
C0 A8 00 EA
NET.NETMASK
FF 00 00 00
NET.GATEWAY
C0 A8 00 FE
.
More parameters
.
.
.
.
.
LINE.POWER_BACKOFF.0
01
LINE.POWER_BACKOFF.1
01

```

```
LINE.POWER_BACKOFF.2  
01  
LINE.POWER_BACKOFF.3  
01  
LINE.ISSI_MODE  
01  
-----  
CP_FMM>
```

- To create a config file, You have to remove the **red** marked part in the text file.

Please note: If you don't remove the NET MAC_ADDRESS parameter all units where the file will be loaded will have the same MAC Address and so the IP network will **not work!**

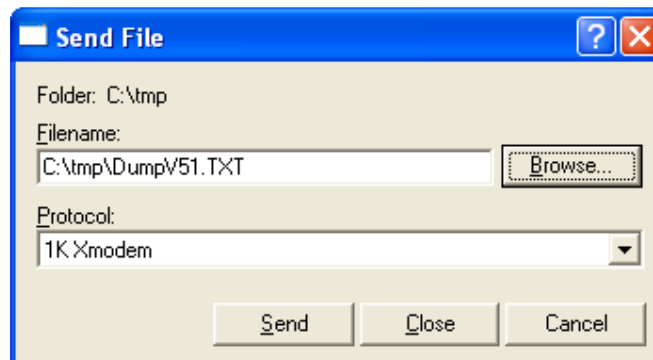
- If you want to setup a specific IP address please set the NET IP parameter (marked **green**) to the desired address (hex format)
- Save and close the file

Programming the Orion 2 unit using the config file

- Enter the FMM menu and type LOAD<CR>
- The following message will appear:

```
Now upload configuration via XModem or 1K XModem  
CCC
```

- Open the *Send File* in the Transfer menu of the Hyper Terminal
- Select the desired path and filename for the config file and press the Send button (the menu will disappear)



- Open the *Send File* in the Transfer menu of the Hyper Terminal
- After a successful download the following message appears:

```
Configuration was loaded successfully.  
For all configuration options to apply, type RESET to reset modem.  
CP_FMM>
```

- Type RESET<CR> to activate the downloaded parameters

For details about other possible configurations please refer to your FlexDSL representative, or call FlexDSL on +41 44 741 5290, or send an e-mail to info@flexdsl.ch.