

Comdasy FAQ: LAN Link
Speed

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1. LAN Link Speed

1.1. Introduction

In some rare cases the ethernet speed autonegotiation fails (e.g. due to faulty routers). This document describes how to manually set the speed (or other interface values) so that they are persistent.

Note that this requires a Convergence with a version that is **newer than 1690** ! Convergences from **4675.x series with x < 22 (e.g. 4675.20) need a special hotfix** which is available on our FTP site at <ftp://ftp.comdasys.com/pub/updates/Convergence/hotfix-080725-4675.20-ifcfg-files.zip>.

1.2. Running scripts after an interface has been set up

Convergences newer than 1690 support running extra scripts after an interface has been set up. These scripts are named after their interface names and follow the scheme `ifcfg-name.post`. They must be stored in the directory `/etc/sysconfig/network-scripts`

So if you'd like to execute something after `eth0` has been set up, you need to create a script called `/etc/sysconfig/network-scripts/ifcfg-eth0.post`.

1.3. Setting the interface speed

There is a tool called `ethtool` for tuning various settings of the network interface. Unfortunately there is no homepage for it (it's part of the gkernel project), so we recommend searching for "`man ethtool`" in the search engine of your choice if you'd like more documentation.

Some interesting options are:

- `speed`: Sets interface speed. Supported values are `10`, `100` or `1000` (the speed in Mbps).
- `duplex`: Sets the duplex mode. Supported values are `half` or `full`.
- `autoneg`: Turns link speed autonegotiation on or off. Supported values are `on` or `off`.

If we'd like to set the interface `eth0` to 10 Mbps in half duplex the command would be:

```
ethtool -s eth0 speed 10 duplex half autoneg off
```

1.4. Bringing it together

If you want the `eth0` interface to be in 10 Mbps half duplex mode persistently you need to create a file `/etc/sysconfig/network-scripts/ifcfg-eth0.post` which contains

```
ethtool -s eth0 speed 10 duplex half autoneg off
```