

[SLE] Ensuring wlan connection is encrypted

Source: <http://linux.derkeiler.com/Mailing-Lists/SuSE/2003-11/1766.html>

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Date: 11/12/03

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Hi,

Hope this message isn't too OT for the list.

I've just ventured into WiFi networking for the first time in order to link two PCs together. Both running SuSE 8.2, with identical Netgear MA111 miniature USB nics with the latest drivers compiled from <http://www.linux-wlan.org/>

After a little fun and games getting them to speak to each other they are now working well in ad-hoc mode with fixed IP addresses, so I have set them up to use WEP encryption, just so that traffic between the machines has some form of encryption. I have an identical `/etc/wlan/wlancfg-MyNetwork` file on both the pcs - details below with keys altered...

But `iwconfig` returns a line that says "Encryption key:off". Should this be on, if WEP is enabled?

Is there any way to verify that traffic over the `wlan0` interface is actually encrypted? What tools can I use?

Thanks in advance,

Jason

`/etc/wlan/wlancfg-MyNetwork:`

```
#=====USER MIB SETTINGS=====
# You can add the assignments for various MIB items
# of your choosing to this variable, separated by
# whitespace. The wlan-ng script will then set each one.
# Just uncomment the variable and set the assignments
# the way you want them.

#USER_MIBS="p2CnfRoamingMode=1 p2CnfShortPreamble=mixed"

#=====WEP=====
```

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```
# [Dis/En]able WEP. Settings only matter if PrivacyInvoked is true
Inxreq_hostWPEncrypt=true # true|false
Inxreq_hostWEPDecrypt=true # true|false
dot11PrivacyInvoked=true # true|false
dot11WEPDefaultKeyID=0 # 0|1|2|3
dot11ExcludeUnencrypted=true # true|false, in AP this means WEP is
required.
```

```
# If PRIV_GENSTR is not empty, use PRIV_GENTSTR to generate
# keys (just a convenience)
# add-ons/ in the tarball contains other key generators.
PRIV_GENERATOR=/sbin/nwepgen # nwepgen, Neesus compatible
PRIV_KEY128=true # keylength to generate
PRIV_GENSTR=""
```

```
# or set them explicitly. Set genstr or keys, not both.
```

```
dot11WEPDefaultKey0=2b:c8:c7:b2:ea:4d:2f:d3:b9:83:e1:ff:ae
dot11WEPDefaultKey1=7b:be:66:c7:84:e0:83:23:96:75:a1:72:f1
dot11WEPDefaultKey2=ce:9d:ab:01:b3:ed:fd:85:fa:e1:07:f0:58
dot11WEPDefaultKey3=29:4b:0f:76:98:e0:ed:47:28:68:f4:9a:3d
```

```
#=====SELECT STATION MODE=====
IS_ADHOC=y # y|n, y – adhoc, n – infrastructure
```

```
#===== INFRASTRUCTURE STATION =====
# What kind of authentication?
AuthType="sharedkey" # ope
```