v1.14_ISC DHCP server pool range usage monitoring

ISC DHCP server implementation has no effective methods for pool range usage monitoring.

There might be situations where the server has covered the entire possible range and ignores new devices' requests. In this case,a message (of messages) of the following type can be found in the log:

```
Feb 10 01:01:01 EltexDHCP dhcpd: DHCPDISCOVER from aa:bb:cc:dd:ff:00 via 100.10.1.1: peer holds all free leases
```

In order to count pool usage ratio and prevent such situations, **dhcpd-pools** utility program can be used. The utility build for ubuntu14 x64 is attached.
dhcpd-pools_2.28-1-trusty_amd64.deb

To install the program using release package, copy it to a SoftWLC server and unpack by entering:

```
sudo dpkg -i dhcpd-pools_2.28-1-trusty_amd64.deb
```

After that, run the utility with:

```
sudo dhcpd-pools -c /etc/dhcp/dhcpd.conf -l /var/lib/dhcp/dhcpd.leases -o ./sampleoutput.txt
```

where
/etc/dhcp/dhcpd.con — main DHCP server configuration file location,
/var/lib/dhcp/dhcpd.leases — lease file path,
./sampleoutput.txt — a result output file.

Project sample:

```
cat sampleoutput.txt
Ranges:
shared net name      first ip           last ip           max    cur    percent  touch   t+c   t+c perc
All networks         122.0.0.10       - 122.0.0.200        191     7     3.665     47     54    28.272
All networks         123.0.0.10       - 123.0.0.200        191     2     1.047      9     11     5.759
All networks         124.0.0.10       - 124.0.0.200        191     2     1.047     57     59    30.890
All networks         200.0.0.10       - 200.0.0.30          21     0     0.000      0      0     0.000

Shared networks:
name                 max    cur     percent   touch    t+c   t+c perc

Sum of all ranges:
name                 max    cur     percent   touch    t+c   t+c perc
All networks         594    11      1.852      113     124     20.875
```

Results may include:
shared net name — the network DHCP server leases addresses from,
first ip, last ip — the first and the last addresses in the pool,
max — the pool range,
cur — the number of issued IP addresses with an active lease (addresses used to date),
percent — cur/max ratio expressed as a percentage,
touch — the number of issued IP addresses with a lease expired,
t+c — the total number of issued IP addresses;
t+c perc — t+c/max ratio, expressed as a percentage.

The utility has other opportunities as well, further information can be found on its developer's website http://dhcpd-pools.sourceforge.net/ or in the manual.