

C\$surv2G Spectrum Monitor .csv file format

Comma by Comma break down of output string for NON BCCH:

```

XXXX-XX-XX,      GPS Date Year, Month Day
XX:XX:XX,        GPS Time, Hors, Minutes, Seconds
xx.xxxxxxxx,    Longitude, in Decimal WGS84 standard
xx.xxxxxxxx,    Latitude, in Decimal WGS84 standard
x,              GPS Lock 1 = yes 0 = No
xx,            Number of satellites in view
xx.x,         GPS Height Above sea level

N,            Channel is a BCCH, Y or N
xxxxx,       ARFCN Absolute radio Frequency Channel Number, assigned radio channel
x,           Null
-xx         RxLev in dBm

```

Comma by Comma break down of output string for BCCH:

```

XXXX-XX-XX,      GPS Date Year, Month Day
XX:XX:XX,        GPS Time, Hors, Minutes, Seconds
xx.xxxxxxxx,    Longitude, in Decimal WGS84 standard
xx.xxxxxxxx,    Latitude, in Decimal WGS84 standard
x,              GPS Lock 1 = yes 0 = No
xx,            Number of satellites in view
xx.x,         GPS Height Above sea level

Y,            Channel is a BCCH, Y or N
xxxxx,       ARFCN Absolute radio Frequency Channel Number, assigned radio channel
xx,         BSIC
-xx,       RxLev in dBm
x.xx,     BER - bit error ratio
xxx,     Mobile Country Code
xxx,     Mobile Network Code
xx,     LAC
xxxxxx, CELL ID
x,     Cell Status
xx,   numArfcn,<arfcn1>...<arfcn64>
.....
xx,   numChannels,<arfcn1>...<arfcn32>
.....

```

CSsurv2G

Spectrum Monitor .csv file format

Note:

- 1) Before performing a new, independent Spectrum scan after a Network scan. The CSurv unit should be power cycled and CSurv application restarted.

Q) Why?

A) Because in Network survey mode the CSurv unit is registered with a specific network, as if it were using a SIM card issued by that network. Performing a spectrum scan in this state will result in any network, other than the network that CSurv is registered with, being displayed in Blue - indicating "barred".
- 2) Number of Channels and Number of ARFCN can be confusing:

It is important when importing this data into third party applications to remember that this data is NOT a fixed length.

Number of Channels is an array, this data varies. It denotes the number of BCCH channels supported by the neighbouring cells. This data is used by the mobile in the cell selection / reselection calculation.

Number of ARFCN also a variable, this denotes the number of radio frequency channels defined within the cell. i.e the number of channels used by the base station serving the BCCH that is being examined.
- 3) To identify the number of traffic channels available on the site serving the BCCH:

Identify the number of ARFCN available.
The BCCH will be hosted by one time slot on one of the ARFCN available, the remaining ARFCN time slots along with Time slots on any additional ARFCN listed will host the traffic channels.
- 4) Mobile network codes can be 3 digits. See re PDF 3digit MNCs in the CSurv installation folder.

Both MNCs and MCC's are decode numerically, CSurv relies on the .txt files in the installation directory for the alpha tag. Thus users can update - add, modify, remove - alpha tags as network names change.
- 5) Cell Status
CELL_SUITABLE indicates the C0 is a suitable cell. This BCCH (cell) will be used by the mobile in calculating cell selection / reselection

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CELL_LOW_PRIORITY indicates the cell is low priority based on the system information received. Unlikely to be used

CELL_FORBIDDEN indicates the cell is forbidden. Will not be used.

CELL_BARRED indicates the cell is barred based on the system Will not be used.