

## Possible method for finding additional frequencies using GE06Calc

1. Identify towns and cities, located within 300 km from a border with a neighbouring country, where the corresponding Plan entries have fewer than 4 frequencies in the band 470 – 694 MHz (see Excel spread sheet on channels per Plan entry).
2. In GE06Calc, open the database containing the compatibility results calculated for requirements generated for geographical areas where the corresponding Plan entries have fewer than 4 frequencies.
3. Choose from GE06Calc the menu 'channel distribution statistics'.
4. In case the number of 'no available channel' is different from zero, it means that these channels are already assigned to the same site and/or to the neighbouring countries that are not part of this planning exercise. Nevertheless, it is appropriate to view these sites and go to step 7.
5. Secure channels given as 'assignable' for subsequent submissions.
6. Click on the number indicating 'no assignable channel' and a list of sites will appear
7. Locate and display the detail analysis results of the town/city of interest.
8. Sort the detail analysis results by available channel (e.g. descending order) and margin (e.g. descending order). (Note: Consider saving this sorting configuration as the default configuration).
9. Consider for each available channel for this site in question those channels that have margins that are of acceptable levels, normally not higher than acceptable margin levels (for the ATU GE06 coordination: **4dB**) and ensure that these levels are respected in both directions (i.e. affected and interferer directions).
10. If such a channel is located, assign it to the requirement in question and note this assignment. For further assignments to either the same location or neighbouring locations this assignment should be considered as fixed and no longer available to other locations requiring additional frequencies that have incompatibilities with the requirements that have been assigned new frequencies.
11. Repeat steps 3 to 6 for other co-located requirements that need additional frequencies.
12. If the above steps do not provide a frequency consider other neighbouring Plan entries (within 100 km) that have more than 4 frequencies assigned in the band 470 – 694 MHz (see Excel spread sheet on channels per Plan entry).

- a. If such Plan entries exist within the country, consider transferring one frequency to each requirement and assign it to this requirement. A new compatibility calculation would be required to ensure that this transferred frequency results in acceptable margin levels. Note the transferred frequency. For further assignments to either the same location or neighbouring locations this assignment should be considered as fixed and no longer available to other locations requiring additional frequencies that have incompatibilities with the requirements that have been assigned new frequencies. Note the need to eventually generate a suppression of the Plan entry from which the frequency has been transferred.
  - b. If such Plan entries exist and belong to a neighbouring country, apply the same procedure as in item a., and initiate coordination and negotiation discussion with the concerned Administration concerning a potential 'transfer' of frequency. Note the need to eventually generate a suppression of the Plan entry from which the frequency has been transferred by the neighbouring country .
13. If point 8 above does not provide a frequency, consider reducing the ERP of the requirement should it have interfering incompatibilities with other Plan entries/requirements. Additionally, if other Plan entries/requirements are closer than about 300 km then enter the correct data on effective antenna heights (using TerRanotices feature on that purpose) could also reducing the interference from the requirement. In the event that the interference incompatibility is from another Plan entry/requirement to the new requirement, it would be necessary to consider similar modifications to these Plan entries/requirements. In the case that both items (Plan entry/requirement) are using fixed reception, the use of cross-polarisation would additionally reduce the level of incompatibility.