Skycoor

PEKASAT

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Skycoor description

This software has been developed specifically for engineers dealing with the analysis of satellite networks located on the geostationary orbit. Upon data from the latest SRS databases the software is capable of assessing the risks of interference between selected satellites within a few seconds and thus, of significantly speeding up analyses and coordination. If harmful interference occurs, it helps to find its cause. Since its parameters may be adjusted and its performance limits set, the software helps to find a solution to such a problem, thus making it easier for administrations to reach the required agreement.

Version vs Function

Function	DEMO (Advanced)	IFIC	Advanced	Professional (Coming soon)
Calculation and report of the ΔT/T	✓	✓	✓	✓
Calculation of the C/I	✓	✓	✓	✓
Simultaneous use of two databases	✓	✓	✓	✓
Calculation for multiple networks	✓	✓	✓	✓
Favourite networks	✓	✓	✓	✓
Input parameters adjustment	✓	✗	✓	✓
Report of the C/I calculations	✓	✗	✓	✓
Frequency overlapping	✓	✗	✓	✓
Global view	✓	✗	✓	✓
Favourable findings	✓	✗	✓	✓
Interconnection with GIMS	✗	✗	✗	✓
Service area modification	✗	✗	✗	✓
Export of the service area into GXT format	✗	✗	✗	✓

SkyCoor-IFIC

The IFIC package of Skycoor software has been developed to help administrations and operators all over the world with the analysis and elaboration of the BR IFIC (BR International Frequency Information Circular - Space Service). This software aims to ease management of the BR IFIC by reducing the amount of time needed for its elaboration. The most time-consuming operation when analysing the BR IFIC is calculation of interference from currently published networks. The heart of the IFIC package are functions for quick calculation of interference between selected networks.

In order to estimate the interference risks, the software calculates the apparent increase in equivalent noise temperature (dT/T) for all frequency groups. Furthermore, Margins and C/I results are calculated to reveal real interference risks. Input data for calculations are obtained from SRS or IFIC database files. When the decision to comment a network is made the software offers the possibility to export the results of dT/T calculation into separate file for further exhibition and processing.

- dT/T calculations based on Appendixes 7 and 8
- dT/T reports in variety of file formats, namely PDF, XLS, XLSX, HTML, RTF, CSV etc.
- C/I and Margin calculation based on ITU Recommendations
- Vast database of antenna radiation patterns based on ITU Recommendations
- Multiple networks selection
- Earth station location and its visibility tool
- Possibility of different database files for interfering and wanted network
- Favorite networks tool
- Possibility to distinguish among communication, mixed and space operation frequency groups
- Worst case dT/T identification
- Frequency band filter
- Interference severity filter
- List of networks parameters for selected pair of emissions for detailed examination

SkyCoor - Advanced

Challenges associated with the coordination of satellite networks has been the key incentive for the development of the Advanced package of Skycoor. Therefore, this software package is mainly intended for engineers dealing with the issues of the coordination of satellite networks. The growing demand for satellite communication services results in the abundance of new coordination requests. The purpose of the Advanced package of Skycoor is to ease engineers of the burden arising from such situation. Not only the interference risks are revealed but also an overview of the network parameters is provided for selected network. This makes the Advanced package useful during the coordination stage and for the preparation of frequency plans.

Regarding the evaluation of interference, the Advanced package offers ΔT/T, C/I and Margin calculations. Although the calculations are performed for all possible combinations it is very simple to find the cause of interference thanks to the filtering tool. The result of each calculation can be exported individually into PDF, XLS, HTML and other formats. Another feature which makes this software special is the possibility to adjust the input parameters of a network. Therefore, power can be reduced, antenna radiation pattern modified, protection ratio customized and all calculations can be carried out with respect to the altered network parameters.

Apart from calculations, the Advanced package of Skycoor is capable of browsing the SRS database data. It significantly helps to find detailed information of a network such as its power values, assignments which received unfavourable findings, frequency groups and their corresponding class of stations etc. Since some information is more comprehensible visually, graphical view of frequencies occupied by a given network is available. Naturally, this tool also enables the user to compare several networks simultaneously and thus to gain a quick overview.

- All IFIC package functions
- Calculation of the worst case C/I and Margins determining the interference level
- Adjusting parameters and setting performance limits for easy finding of solutions in case of unacceptable interferences
- Graphical representation of spectrum utilization for multiple networks at once, making it possible to focus on problematic sections
- Margin reports recording the results of individual calculations

- A clear display of the network parameter with filter possibility
- Possibility of defining custom radiation pattern

Professional package (Coming soon):

- dT/T calculations based on Appendixes 7 and 8
- dT/T reports in variety of file formats, namely PDF, XLS, XLSX, HTML, RTF, CSV etc.
- C/I and Margin calculation based on ITU Recommendations
- Vast database of antenna radiation patterns based on ITU Recommendations
- Multiple networks selection
- Earth station location and its visibility tool
- Possibility of different database files for interfering and wanted network
- Favorite networks tool
- Possibility to distinguish among communication, mixed and space operation groups
- Worst case dT/T identification
- Frequency band filter
- Interference severity filter
- List of networks parameters for selected pair of emissions for detailed examination
- Calculation of worst case C/I and margins determining the interference level
- Adjusting parameters and setting performance limits for easy finding of solutions in case of unacceptable interferences
- Graphical representation of spectrum utilization for multiple networks at once, making it possible to focus on problematic sections
- All IFIC and Advanced packages functions
- Cooperation with GIMS for calculating particular situations
- Possibility of modifying and saving the service areas in GXT format

Price List

License	EUR for one license per year			
Version SW/No.	**1**	**2 - 4**	**5 - 8**	**9 +**
IFIC	1 500,00 €	1 350,00 €	1 080,00 €	Individual Calculation. Please, contact sales department.
Advanced	4 500,00 €	4 050,00 €	3 250,00 €	
Professional	-	-	-	
Renewal	**EUR for one renewal to one year**			
Version SW/No.	**1**	**2 - 4**	**5 - 8**	**9 +**
IFIC	300,00 €	270,00 €	220,00 €	20% Discount
Advanced	900,00 €	810,00 €	650,00 €	
Professional	-	-	-	

License	USD for one license per year			
Version SW/No.	**1**	**2 - 4**	**5 - 8**	**9 +**
IFIC	1 700,00 USD	1 530,00 USD	1 220,00 USD	Individual Calculation. Please, contact sales department.
Advanced	5 100,00 USD	4 590,00 USD	3 680,00 USD	
Professional	-	-	-	
Renewal	**USD for one renewal to one year**			
Version SW/No.	**1**	**2 - 4**	**5 - 8**	**9 +**
IFIC	340,00 USD	310,00 USD	250,00 USD	20% Discount
Advanced	1020,00 USD	920,00 USD	740,00 USD	
Professional	-	-	-	

Skycoor is provided for at least one year with the option to extend usage to a minimum of one or more years. Extend or buy other version of Skycoor, you can use the renewal form - Renewal.