

**Release notes PROGIRA® plan 5.2 (18 May 2015)**

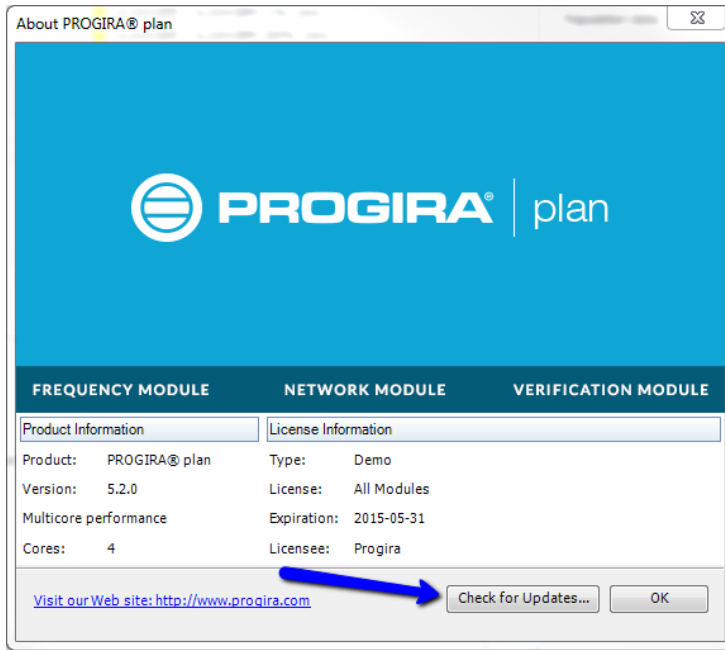
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## Base Module

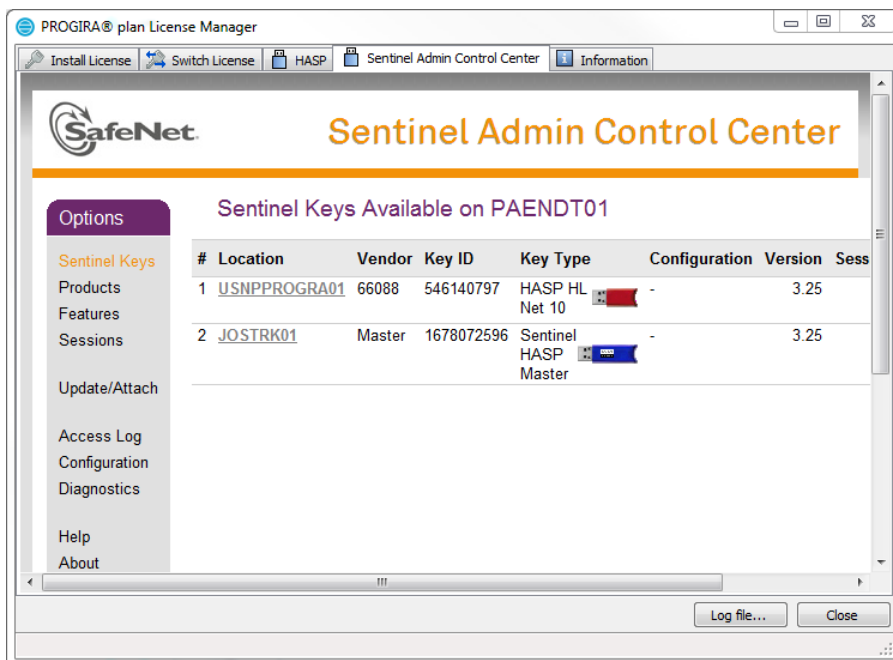
### General

**NEW:** Support for ArcGIS 10.3

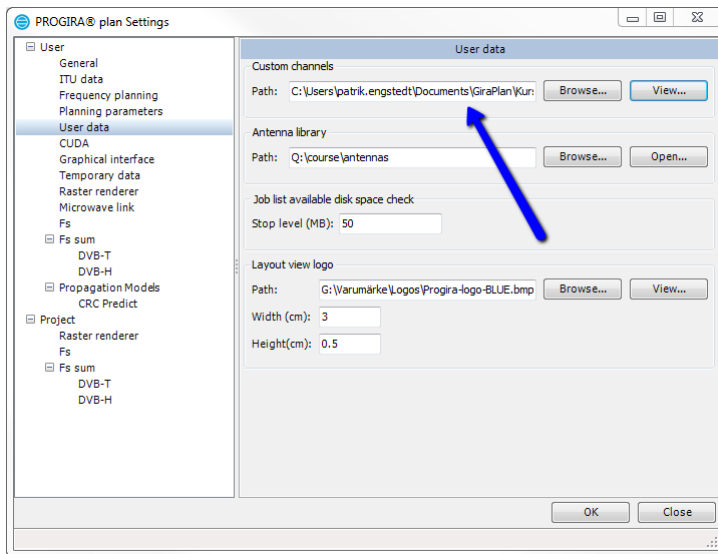
**NEW:** Checks for PROGIRA® plan software updates at startup. A check for updates can also be made from “About ...” in the PROGIRA® plan main menu



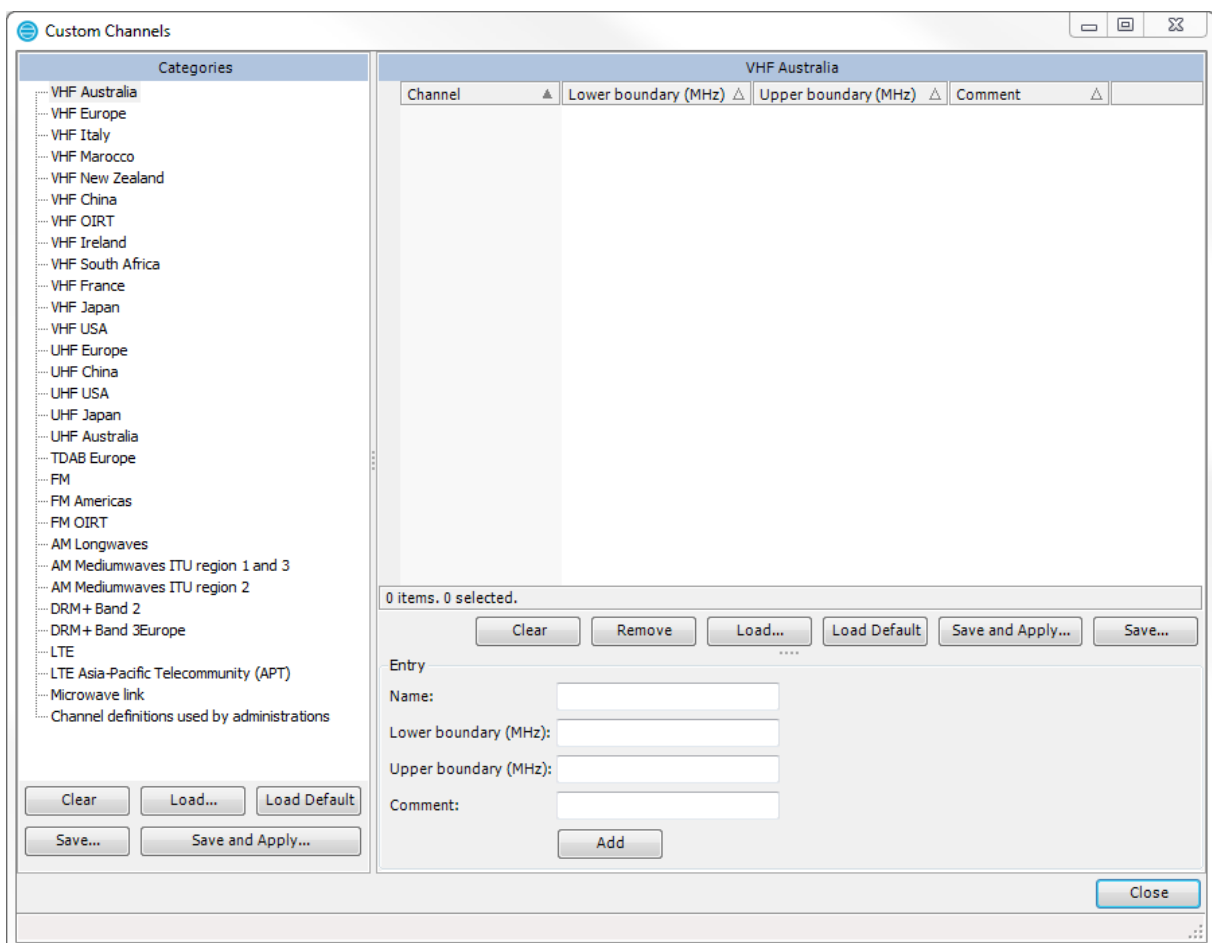
**NEW:** PROGIRA® plan License Manager has been extended with the Sentinel Admin Control Center



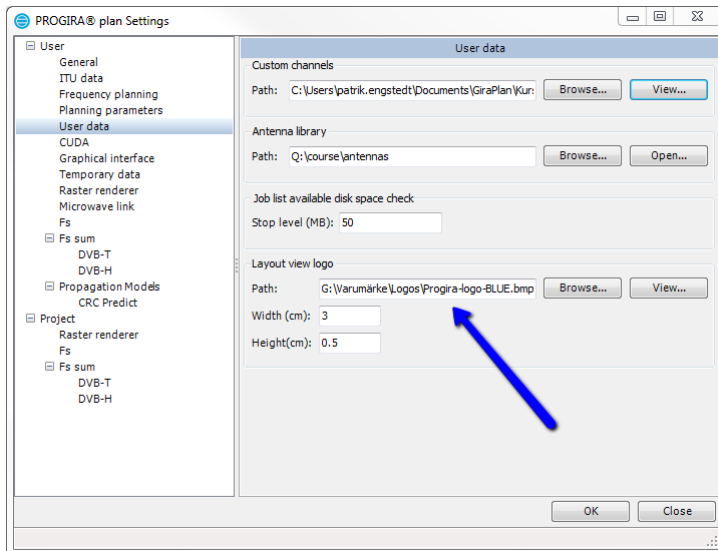
**NEW:** Define your own Microwave link channels or override other channel lists in a XML file. Select the XML file in PROGIRA® plan Settings menu



**NEW:** A Custom channel editor (PROGIRA® plan Transmitter menu) will help you create the XML file containing the channel lists



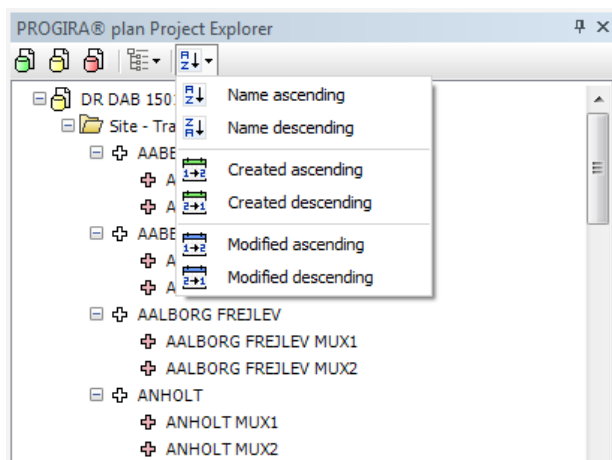
**NEW:** Layout View, possibility to add user specific graphics as default (such as company logotype)



**NEW:** Antenna library path setting has moved to User data folder in PROGIRA® plan Settings. See previous picture

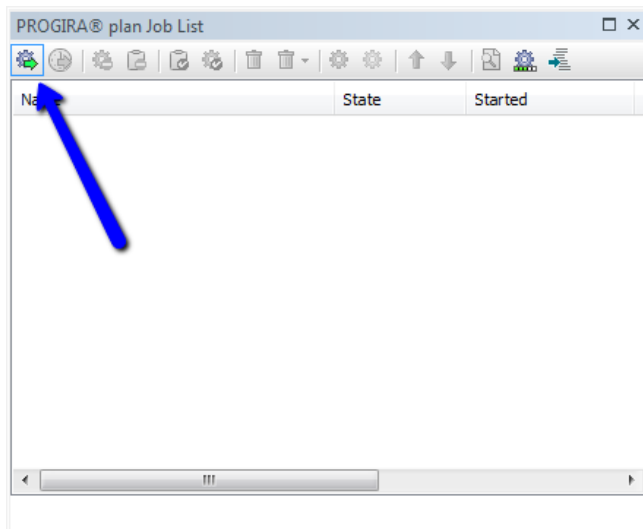
**NEW:** Available disk space is checked before starting calculations. In case of low disk space situation calculations are aborted. The low disk level can be set in the User data folder in PROGIRA® plan Settings, se previous picture

**NEW:** PROGIRA® plan project explorer has been extended with descending order sorting

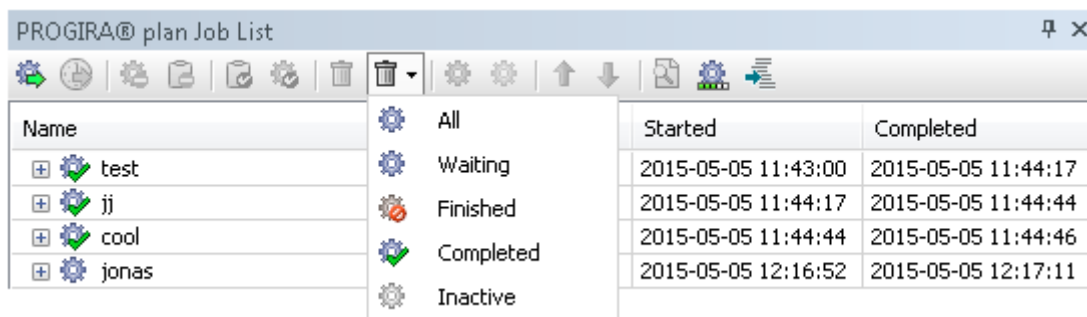


**NEW:** Duplicate function for PROGIRA® plan objects – Enter the number of copies that will be created. Earlier Duplicate resulted in single copies only

**NEW:** PROGIRA® plan Job list auto calculate. When clicking on the “Execute batch” button in the PROGIRA® plan Job List it becomes activated (indicated by a square surrounding the button). Jobs added to the list when button is activated will automatically start executing



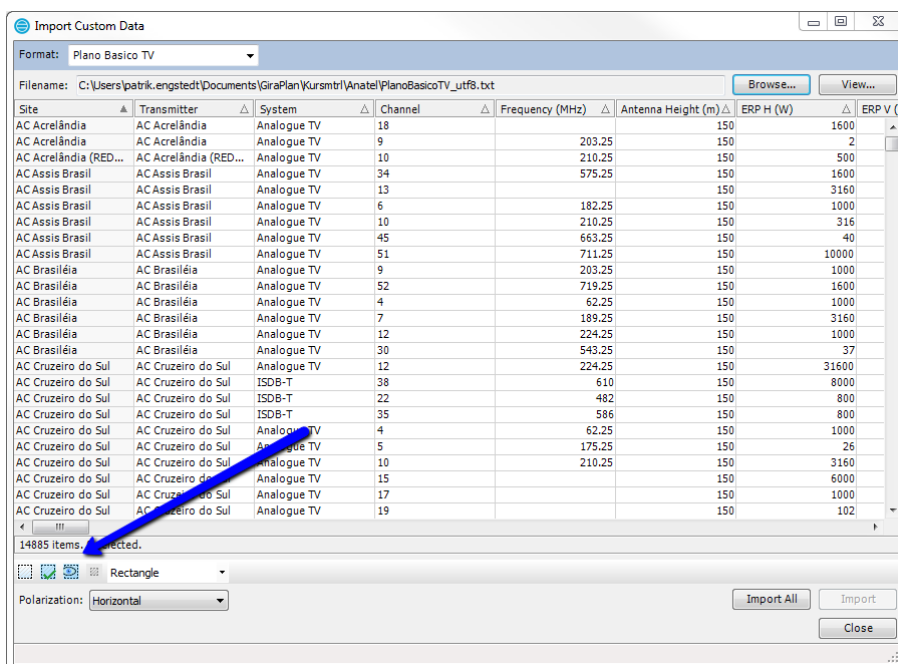
**NEW:** Remove jobs function in PROGIRA® plan Job list has more options



**FIXED:** Backup PROGIRA® plan project, the GUI could be closed during backup process

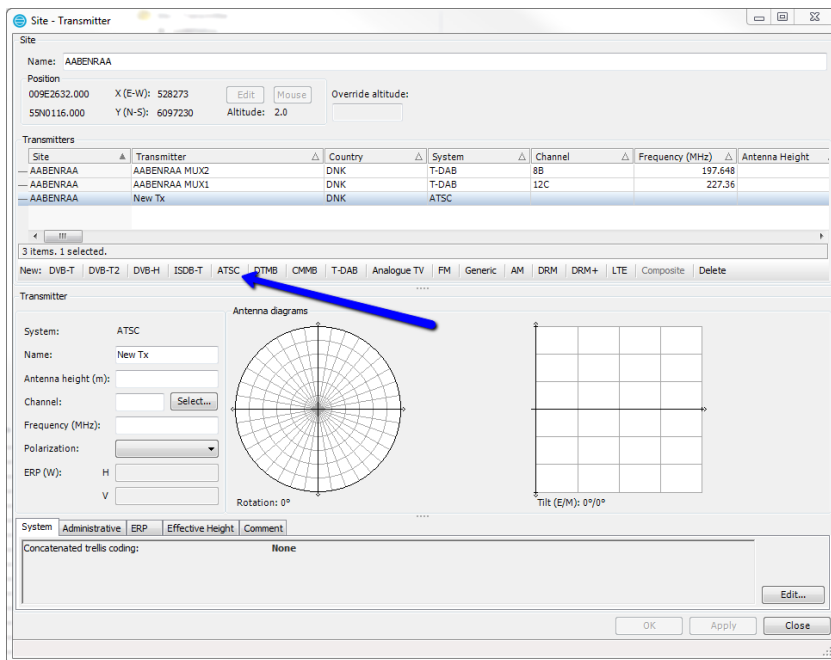
## Import

**NEW:** Area filtering has been added to all Custom data import functions

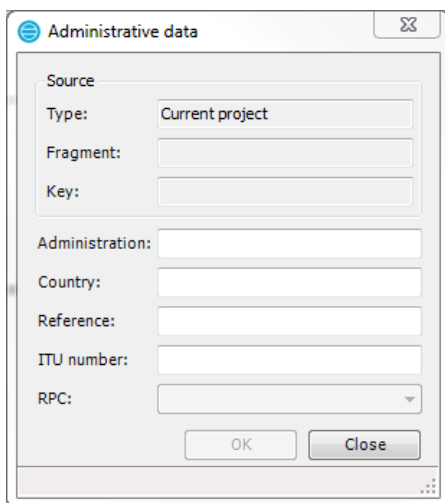


## Tx

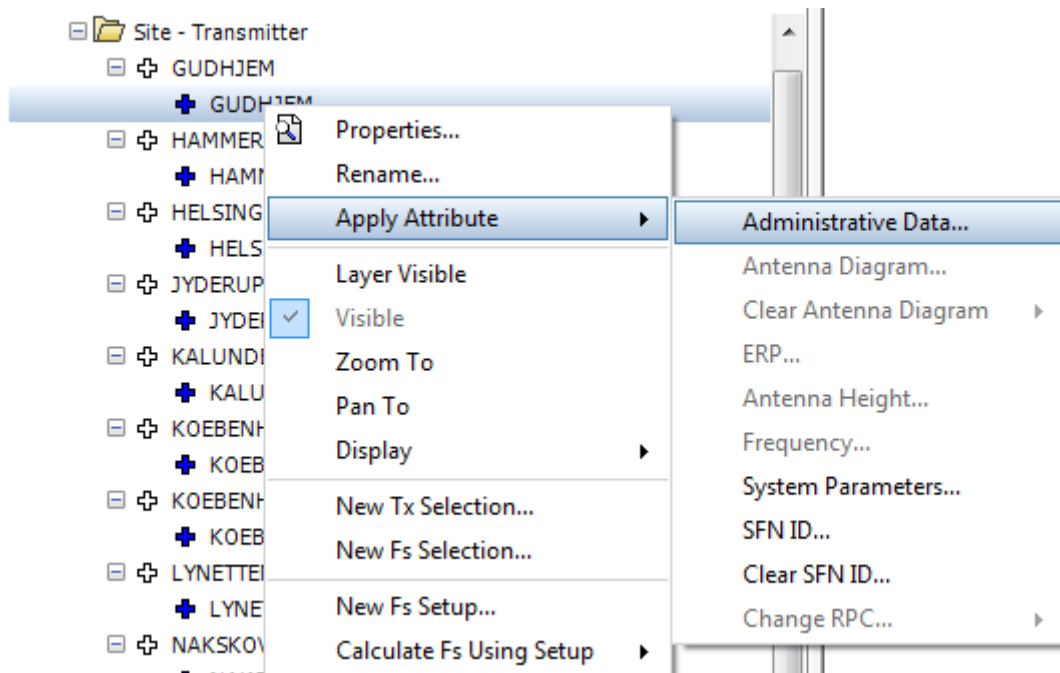
**NEW:** ATSC transmitters can be created



**NEW:** Administrative data tab is added to the transmitter and replaces previous ITU and CEPT Administrative tabs. Country code can be assigned to each transmitter

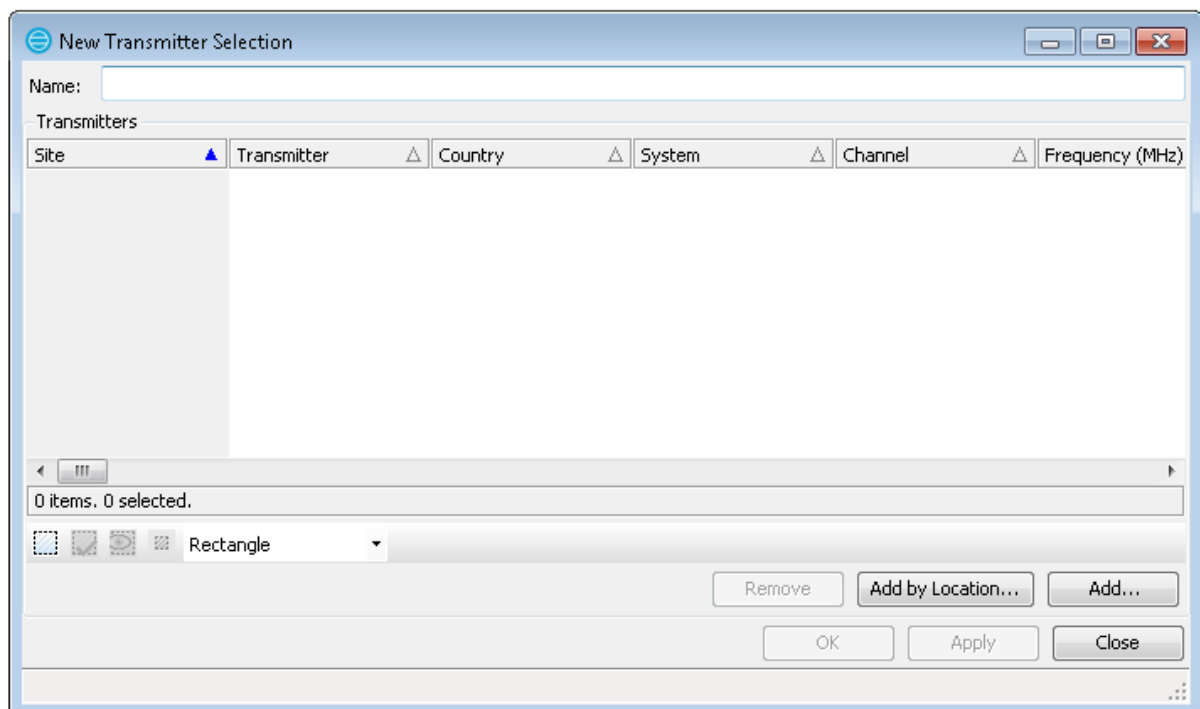


**NEW:** Apply Attribute functions has been extended with Administrative data



**NEW:** Support for LTE channel definitions APT 700 and CEPT 800

**NEW:** Area filtering has been added to New Transmitter Selection function

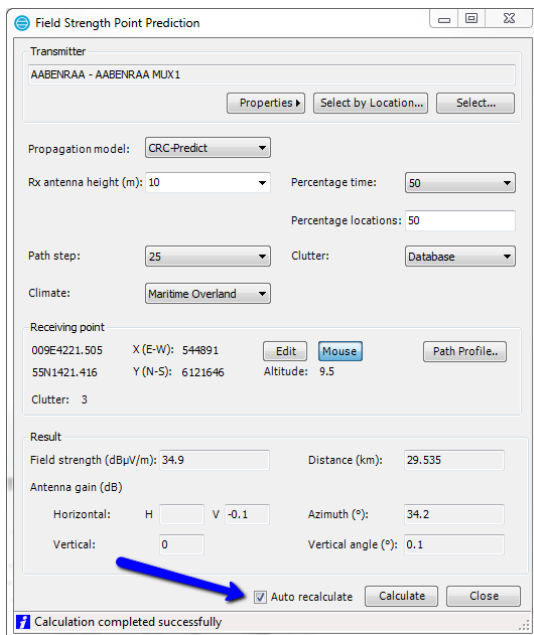


**FIXED:** Apply attribute, System parameters GUI has been updated for DVB-T2 transmitters. Only permissible set of parameters can be defined

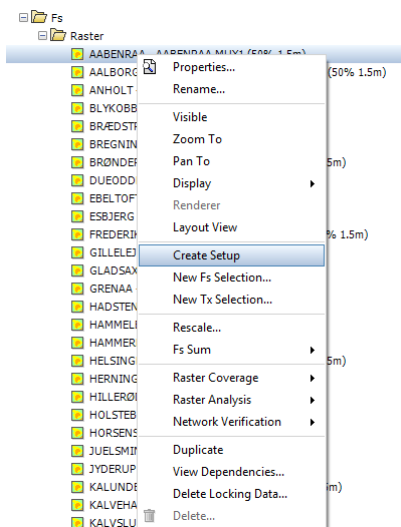
**FIXED:** System parameters for DVB-T2 Lite, FFT size 16K and GI 1/32 only PP6 or PP7 should be allowed

## Fs

**New:** FS – Point calculation – Single ... has an auto recalculate option

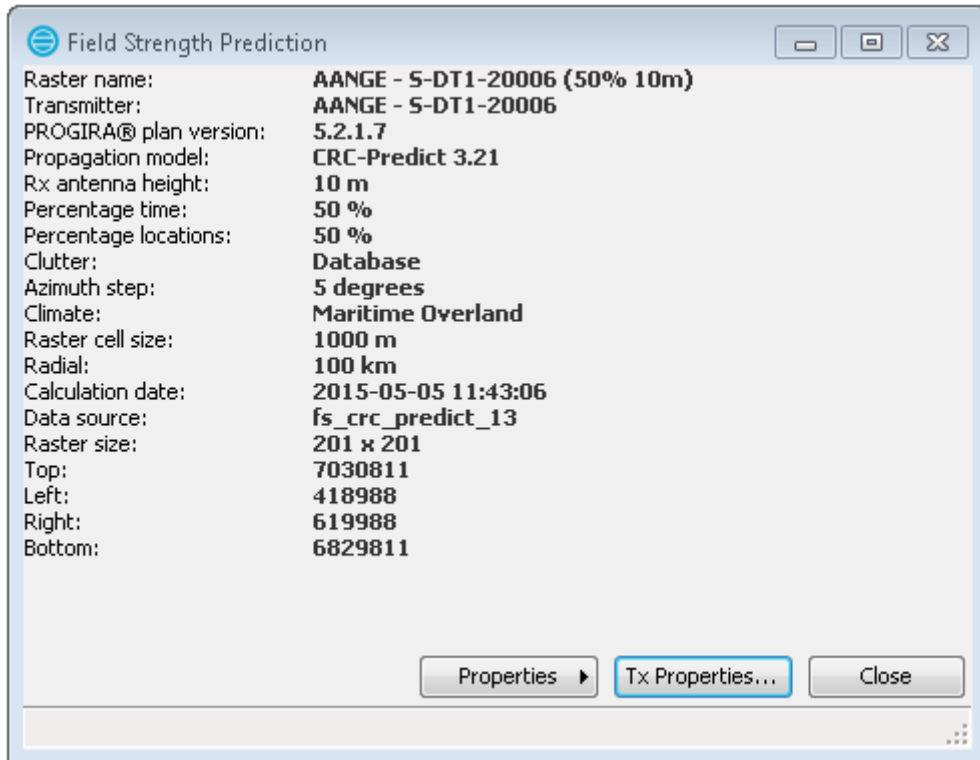


**NEW:** Create field strength setup from a field strength prediction



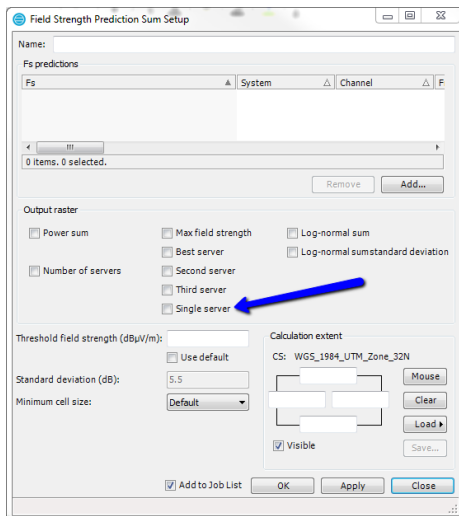
**NEW:** PROGIRA® plan version is added to field strength predictions and summation result





## Fs sum

**NEW:** Single server function added

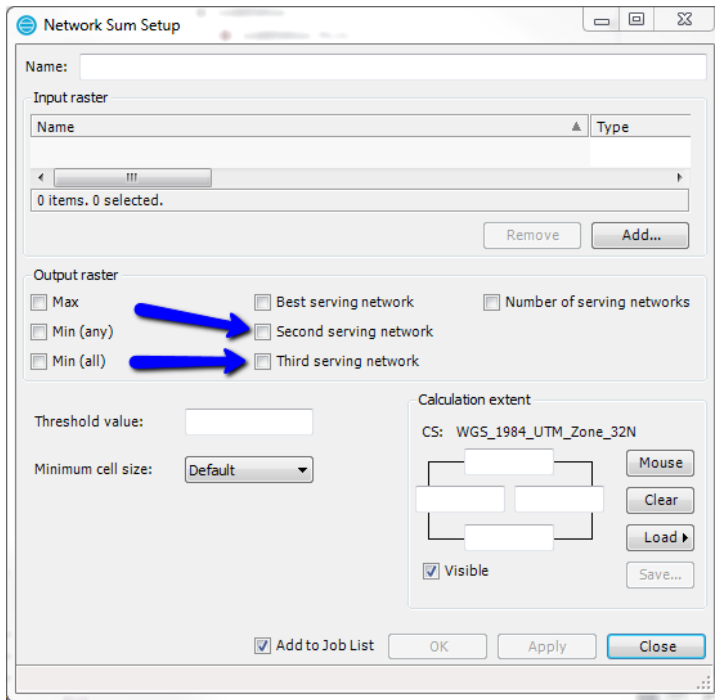


**NEW:** Best server runs multithreaded for faster calculations

**NEW:** Log-normal runs multithreaded for faster calculations

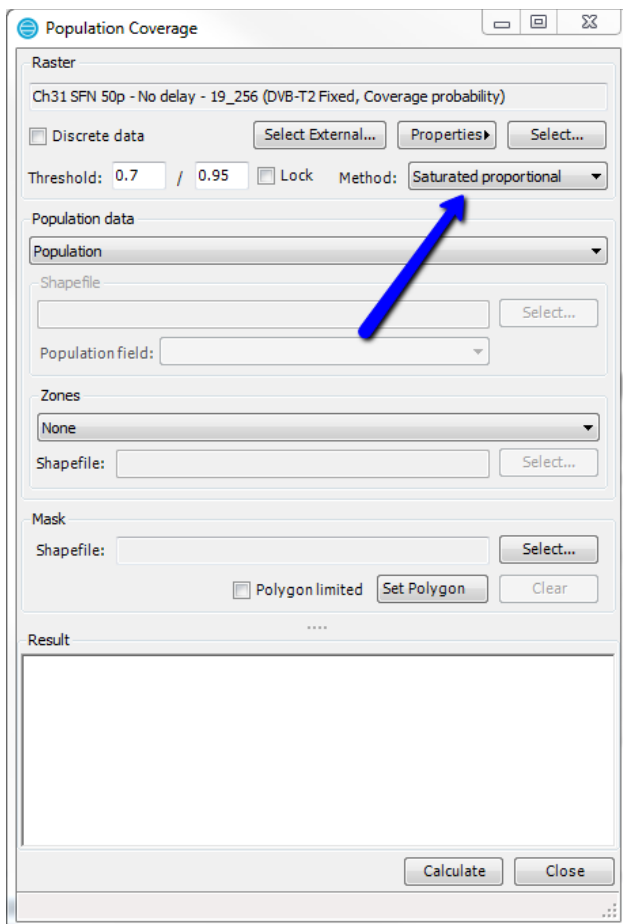
## Network sum

**NEW:** Second and Third serving network function added



## Population coverage

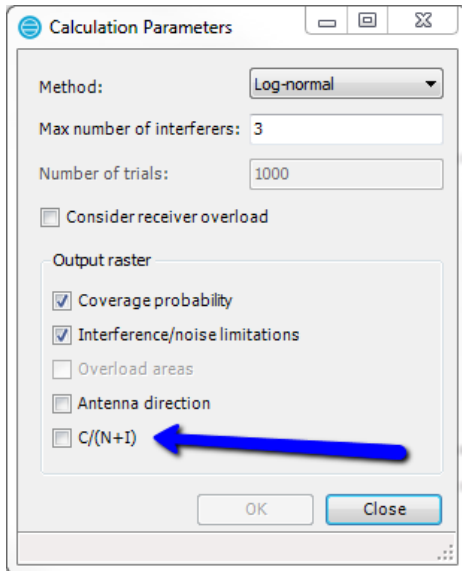
**NEW:** Saturated proportional calculation population method is a combination of Proportional and Threshold method



## Network planning module

### DVB-T/T2, ISDB-T, DTMB sums

**NEW:** C/(N+I) output results can be created (this actually creates 2 outputs: value and standard deviation)



### ATV sum

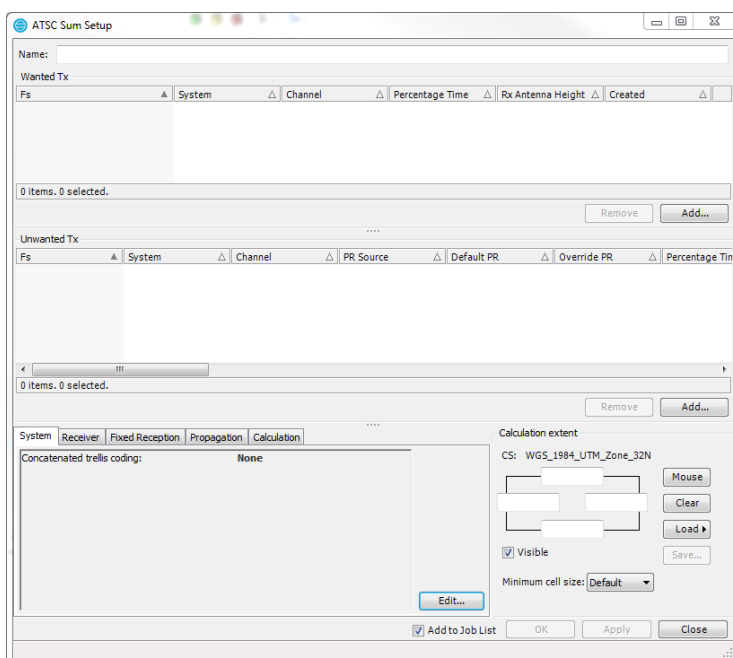
**NEW:** Runs multithreaded for faster calculations

### FM sum

**NEW:** Runs multithreaded for faster calculations

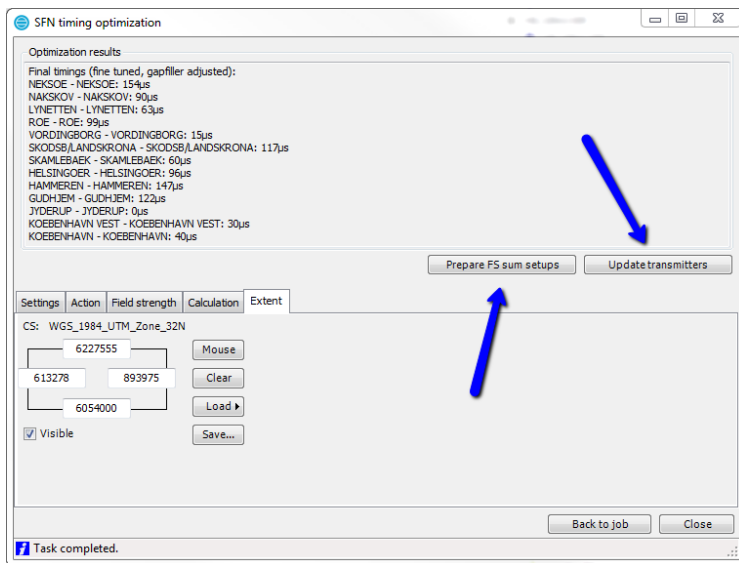
### ATSC sum

**NEW:** Function for analyzing ATSC transmitter coverage. Receiver and propagation characteristics as well as interference from other services can be taken into account



## SFN optimization

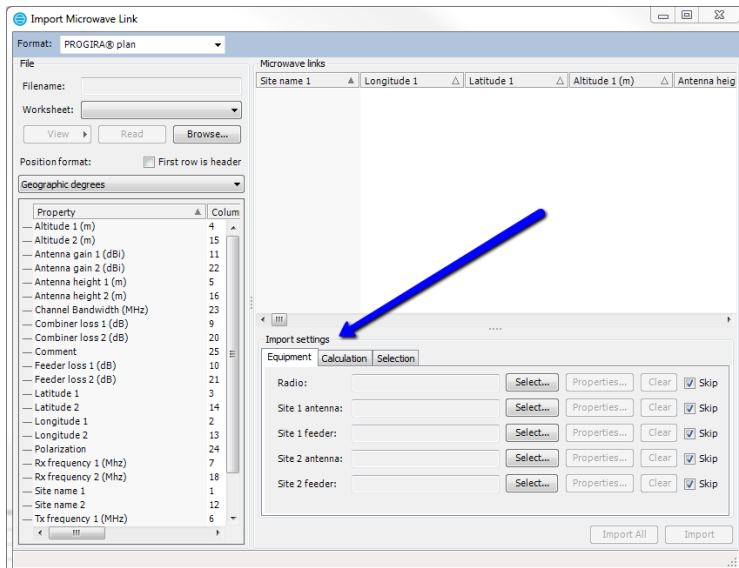
**NEW:** Apply delays, resulting from the SFN Optimization, directly on the transmitters or create FS summation setups with the delays included



## Microwave planning module

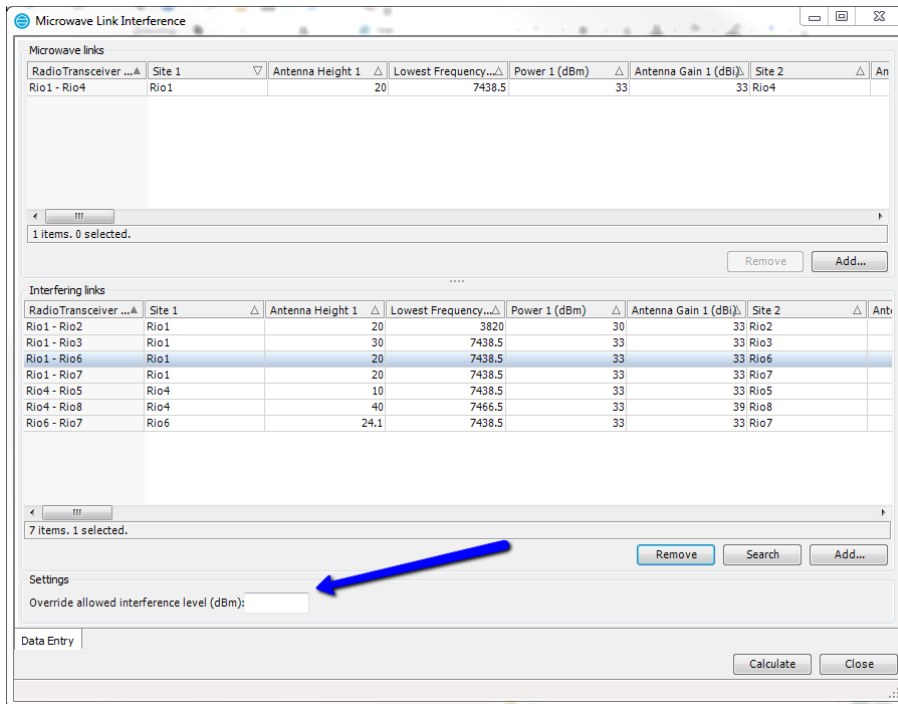
### Import

**NEW:** Equipment can be specified when importing links from PROGIRA® plan and Anatel (Brazil) formats

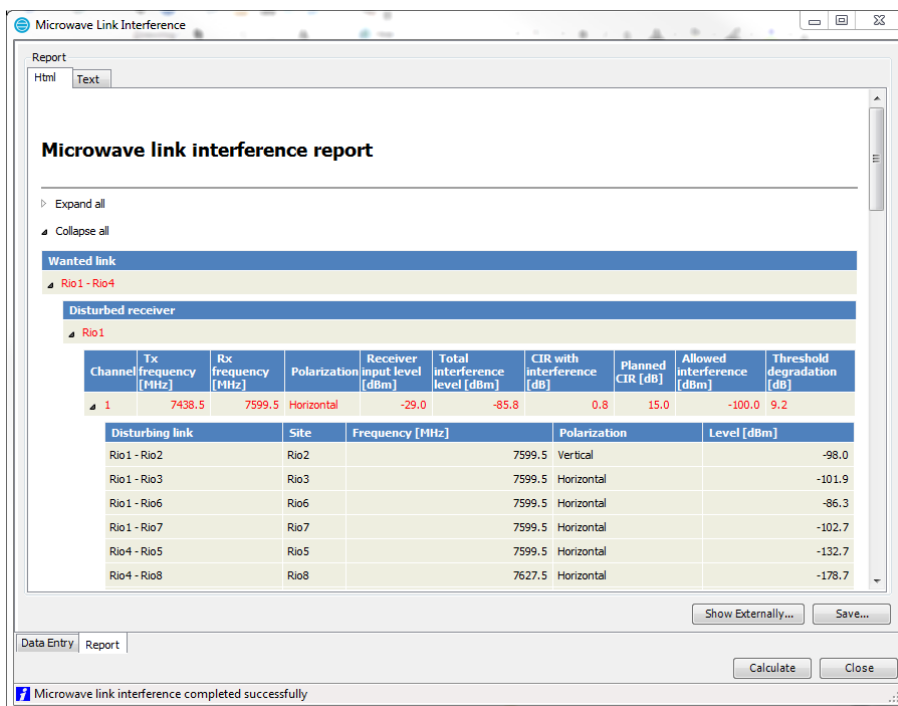


## Interference

**NEW:** Override allowed interference level in the calculation. The interference level is default defined by the equipment parameters



**NEW:** HTML report for easier interpretation of the result



## Frequency planning module

### Coverage contour

**FIXED:** Coverage contour made in Central America had wrong azimuth presentation

### Interference

**NEW:** The analysis tab now shows FS sum at test points

**NEW:** Country border test points in the report are now numbered the same way as analysis tab numbers them

## **Network verification module**

### **FS Prediction Analysis**

**FIXED:** If measurement input data was defined in the projected coordinate system the result layers were not positioned correctly