

### **SpaceCap 6.6.2 Update 18 Nov 2010**

SpaceCap 6.6.2 adds the following features:

- Improved interface for APIs
  1. ability to indicate direction of the frequency range for APIs subject to coordination.
  2. Improved grid to detail navigation for frequency ranges
- Corrections to AP30B interface

### **SpaceCap 6.5.8 Update 28 March 2009**

SpaceCap 6.5.8 adds the following features:

### **SpaceCap 6.5.6 Update 28 Sept 2009**

SpaceCap 6.5.6 adds the following features:

- Correction for the group clone :
  1. When cloning a group from a plan filing spacecap would issue an error "cannot find c2i\_se".

### **SpaceCap 6.5.5 Update 22 Sept 2009**

SpaceCap 6.5.5 adds the following features:

- Correction to the AP30B conversion utility for:
  1. Fix for the path not found error on VISTA and some XP environments.

### **SpaceCap 6.5.4 Update 9 Sept 2009**

SpaceCap 6.5.4 adds the following features:

- Correction to the AP30B conversion utility for:
  1. Fix for the Jet engine error.
  2. Clone a plan notice - when user set the clone\_id the beam\_tr was not generated. Corrected

### **SpaceCap 6.5.3 Update 2 Sept 2009**

SpaceCap 6.5.3 adds the following features:

- Correction to the AP30B conversion utility for:
  1. Path not found error
  2. When opening a converted mdb, Spacecap would issue a message that the mdb was version 6.0 and ask use to convert it to 6.1 and then abort.

### **SpaceCap 6.5.2 Update 28 July 2009**

SpaceCap 6.5.2 adds the following features:

1. Update for AP30B Wrc 2007 decisions.
  - modified database structure for AP30B.
  - conversion and Ap30B reformat utility - to reformat previous AP30B network.

- revised AP30B capture interface.
- 2. miscellaneous corrections.
- 3. issue a message when opening a version 6.0 database and give user option to convert the database to 6.1.

### **SpaceCap 6.1.2 Update 31 March 2009**

SpaceCap 6.1.2 adds the following features:

1. Control button to start SpaceVal from the SpaceCap Notice Explorer.
2. Create 9.17 Coordination request filings for Typical Earth Stations.
3. Some editorial corrections.
4. Corrections to API frequency input interface.
5. Call to UpdRefdb which will check whether a mandatory update to the space reference tables is available.

### **SpaceCap 6.0.9 Update 29 Sept 2008**

SpaceCap 6.0.9 corrects the following:

1. restructured the notice form
2. locked the sat\_id and orb\_id on the uctlorbitlink form
3. on the API notice form save orbit info when close button not pressed
4. added automatic scrollbars to the srv cls table on the group form
5. for clone ap30B group which has a related split group - if user changes the frequency - delete the related split group
6. correction to the plan strap wizard - close recordset and then set to nothing

### **SpaceCap 6.0.7 Update 27 Aug 2008**

SpaceCap 6.0.7 corrects the following:

1. e\_stn form beamwidth max length increased
2. Space beam form -
  1. allow capture of Angle Alpha and beta (b4a1, b4a2) for passive and active sensor non geo beams.
  2. corrected item numbers for B4 fields
  3. corrected an error where when using the toolbar buttons to navigate through the beams then double clicking a group from the group list on a sensor beam the beam was converted to a non sensor beam and the group sensor data was lost
3. Group form -
  1. Group added microsecond symbol and corrected KHz symbol for sensor data
  2. changed dBW to dB(W/Hz) for pwr density
  3. Group and group related forms - increased size of the beam name combobox so that entire beam name and emi\_rcp are visible
  4. Frequency tab the C2a/C2b Assigned Frequency changed to C2a Assigned Frequency
4. API Notice form
  1. when changing option button from Coordination required to not required msgbox give you the option to not continue. When user selects not to continue reset the option to the previous option
5. RS49WizardV6 could not start spaceqry if spaceqry v5 was not installed. Corrected.
6. Restructured the Coordination/Notification form.

### **SpaceCap 6.0.5 Update 05 Aug 2008**

The SpaceCap setup was updated with SpaceCap 6.0.5.

1. Disable delete of RS49 Station from the notice explorer.
2. Renumber RS49 notice id renumber cmr\_grp\_lnk rows.
3. Clone RS49 notice - copy cmr\_grp\_lnk rows.

### **SpaceCap 6.0.0 Update 05 Jun 2008**

The SpaceCap setup was updated with SpaceCap 6.0.0.

1. Version 6 of SpaceCap reflects all modifications and additions to Appendix 4 of the Radio Regulations amended by WRC-2007.

### **SpaceCap 5.4.8 Update 31 Mar 2008**

The SpaceCap setup was updated with SpaceCap 5.4.8. This update adds the following:

1. For plan filings allows the user to reset climatatic zones in the database with the value from IDWM.
2. For plan filings allows the user to enter a zero value for A12. Automatic Gain Control.

### **SpaceCap 5.4.7 Update 31 Jan 2008**

The SpaceCap setup was updated with SpaceCap 5.4.7 This update adds the following:

1. Correction to the export to maintain the relationship between of AP30B paired groups.

### **SpaceCap 5.4.6 Update 10 Jan 2008**

The SpaceCap setup was updated with SpaceCap 5.4.6 This update adds the following:

1. Automatic Web Update. The SpaceCap 5.4.6 software will automatically check the ITU BR web site to see if a new version is available and allow the user to download the installation and run the installation. The frequency of the Automatic Web Update check maybe set from the SpaceCap Preferences dialog.
2. API frequency range validation correction.
3. AP30B interface - refinement to the automated generation and maintenance of the downlink and uplink groups relating to the upper frequency slots of the band 13/10 GHz.

### **SpaceCap 5.4.3 Update 25 Sept 2007**

The SpaceCap setup was updated with SpaceCap 5.4.1 This update adds the following:

1. API frequency range validation correction.
2. Plan testpoint setting of longitude and latitude direction when value was -0 and a decimal value.

### **SpaceCap 5.4.1 Update 1 June 2007**

The SpaceCap setup was updated with SpaceCap 5.4.1 This update adds the following:

1. Display the cooresponding APL name for a selected antenna pattern.
2. Error handling when the application cannot open the Spacerefdb.mdb
3. New rule in the the Plan strapping wizard. A channel can only be strapped once.
4. Add to preferences a check box for "Open plan data in read only mode".
5. Correction of the Non Geo orbital operation interface.

### **SpaceCap 5.4.0 Update 12 March 2007**

The SpaceCap setup was updated with SpaceCap 5.4.0 This update adds the following:

1. New start page interface for plan assignments to graphically distinguish between plan and plan notified assignments. Plan notified assignments will now be identified with a ntf\_rsn of "N" and plan\_id.
2. The capture interface for AP30B plan assignments corrected and enhanced.

3. Use the rf\_ant\_type reference table from the spacerefdb.mdb. This means that users can no longer add a new antenna pattern but must select the pattern id other and submit the new antenna pattern to the BR using an attachment.
4. New setup using Installshield 11.5.

### SpaceCap 5.3.7 Update 30 October 2006

The SpaceCap setup was updated with SpaceCap 5.3.7 This update adds the following:

1. RES49 Wizard - changed method of calling the SNS Online RES49 Query.
2. Non geo inclin angle should accept 0 to 180 degrees. Also corrected a problem where it was not possible to leave the non geo form once an error was made capturing the data.

### SpaceCap 5.36 Update 29 September 2006

The SpaceCap setup was updated with SpaceCap 5.3.6 This update adds the following:

1. Fix when loading Earth Station provision.
2. Fix to CoordWizard frequency selection.
3. Fix for clone of groups belonging to Article 2A networks.

### SpaceCap 5.33 Update 26 June 2006

The SpaceCap setup was updated with SpaceCap 5.3.3 This update adds the following:

1. New Coordination Agreement Wizard
2. AP4 - rearranged the provision options on the notice form
3. Added D" for Deep Space added to the ref\_body combo list on the non geo station form.
4. Fix to allow clone of groups and beams from the Notice Explorer for Article 2A.

### New Coordination Agreement Wizard

The Coordination Agreement Wizard is a utility designed to help you to capture Coordination Agreement information for groups of frequencies within a filing. The wizard may be useful when you are converting an existing coordination transaction to a notification or preparing a resubmission. In many cases, especially for creation of new filings, there is also the "Common Group Wizard". Why two wizards? The Coordination Agreement Wizard allows you to capture different Coordination Agreement information for different groups of frequencies whereas, with the "Common Group Wizard" you can only capture the same Coordination Agreement information for all groups of frequencies within your filing.

### How to start the Coordination Agreement Wizard from SpaceCap

1. Open the capture database that contains the filing for which you wish to add Coordination Agreement information.
2. Select the filing from the Notice Explorer.
3. Select the **Coordination Agreement Wizard** submenu item which you'll find under the **Tools** menu.

### SpaceCap 5.2.5 Update 20 March 2006

The SpaceCap setup was updated with SpaceCap 5.2.5. This update adds the following:

1. Allow modification of frequency range for an API filing.
2. Correction to the generation of the beam\_tr for region 2 plan assignments. The beam\_tr was incorrectly generated in the case where the group was identical except for the polarization type.
3. New Cost Recovery Analysis. See CR 225 Dec 2004.

### SpaceCap 5.2.2 Update 1 November 2005

The SpaceCap setup was updated with SpaceCap 5.2.2. This update adds the following:

1. Fix for abort on invalid subscript when entering Associated Space Station information for an API filing.

### SpaceCap 5.2.1 Update 14 October 2005

The SpaceCap setup was updated with SpaceCap 5.2.1. This update adds the following:

1. SpaceCap now uses the new BR Reference tables. A setup to install an up-to-date copy of the BR Reference tables is available on each BR IFIC CD-ROM or may be run from the link provided on <http://www.itu.int/ITU-R/software/space/spacecap/index.html>.
2. Validation for frequency overlap when entering frequency range for APIs.
3. Art2A notices print available.
4. RS49 Wizard will now generate a modification to an existing RS49 notice.

### SpaceCap 5.1.6 Update 7 April 2005

The SpaceCap V5 setup was updated with SpaceCap 5.1.6. This update adds the following:

1. Message stating that Spacepub is not available for Art2A notices.
2. List of satellite names or earth station names are provided whenever the user is asked to supply satellite or earth station name. The list of names are taken from the new BR Reference tables.

### Interim update 18 January 2005

The SpaceCap V5 setup was updated with SpaceCap 5.1.5. This interim update adds the following:

1. A feature to compute an estimate of the cost recovery fee for satellite network filings. To access this feature. Open a filing database using Spacecap 5.1.5, go to the Notice Explorer, select a filing, from the **File** menu, select the **Cost Recovery Analysis** submenu.

This interim update corrects the following:

1. A18a. commitment regarding characteristics of aircraft earth station value was not always saved to the database.
2. Could not scroll the Service Area codes when the database was readonly.
3. Allow negative values for PFD on the PFD form.
4. Could not enter a value greater than 9.99 into A4b6g (longitude ascending node) whereas the field was described as 0 to 360 degrees in the BR IFIC.
5. For A.7.e table (Table of Minimum Elevation Angles) it was not possible to capture values for azimuths greater than 239 degrees.
6. Moved capture of A.7.a table (Horizon elevation) to a separate form.
7. RS49 Wizard will now allow a comma as the decimal symbol (Regional Settings).
8. Increase the size of the group list on the beam form when the beam has many groups.
9. For Geo and Non Geo increase the size of the beam list on the station form when the station has many beams.

### **Interim update 1 November 2004**

The SpaceCap V5 setup was updated with SpaceCap 5.1.4. This interim update adds the following:

1. Resolution 49 Wizard to create a Resolution 49 notification from an existing coordination request. For more details please refer to the SpaceCap Help file. You will find a new section on the Resolution 49 Wizard under the Tools heading.
2. A new interface to capture notifications under Article 2A of Appendices 30 and 30A.

This interim update corrects the following:

1. When capturing an Advance Publication notice, the heading was showing "Due Diligence" rather than "Advance Publication".

### **Interim update 8 September 2004**

The Spacecap V5 setup was updated with Spacecap 5.1.3. This interim update corrects the following problems:

1. When capturing data for a Specific Earth Station it was impossible to enter a decimal value for the elevation angle.

### **Interim update 1 September 2004**

The Spacecap V5 setup was updated with Spacecap 5.1.2 on the 1st of September, 2004. This interim update corrects the following problems:

1. A problem with running the Group Correction and Group Common data Wizard when Spacecap V5 was not installed in the default directory.
2. Group Correction and Group Common data Wizard aborted when the length of the database was longer than 80 characters.
3. For certain Date settings of the Regional Settings, the Group Common data Wizard did not save the date bringing into use correctly.
4. Added a keep existing data checkbox to the Group Common data Wizard.
5. C8d2 Continuous Bandwidth on the group tab and C8g2 Aggregate Bandwidth on the Assoc Earth Station tab only allowed entry of 6 digits.
6. A problem was encountered exporting a region 2 plan filing to a small database.
7. Added option for cloning Plan networks to not clone the reference situation.
8. Another problem with the Group Common data wizard on computers which do not have a default [c:\temp](#) directory.
9. Added the Beam and Group combo box navigation controls to the Group tab.

### **Interim update 28 June 2004**

The Spacecap V5 setup was updated on the 28th of June, 2004. This interim update corrects the following problems:

1. a problem on the Group tab where it was impossible to turn off the check for compliance with No. 4.4 of the Radio Regulations.