

Space Plans Workshop (AP30/30A)

Exercise on viewing results of MSPACE available in BR IFICs

Presented by:

ITU-R/Space Services Department Space Notification and Plans Division



Outline



General introduction of SPS Reporting Tool

Exercise on SPS_REPORTs

Exercise 1: Viewing results of a R1&3 BSS network (file: AP30_USABSS-34_mspace_results.mdb)

Exercise 2: Viewing results of a R1&3 BSS Feeder-link submission (file: AP30A_NSS-BSS 142E_mspace_results.mdb)

Exercise 3: Viewing results of a Region 2 submission (file: AP30-30A_NSS-BSS 58W_mspace_results.mdb)

Annex1: Where to get an install package of SPS

Annex2: Get Mspace results available in BR IFICs

SPS Reporting Tool



1. Its purposes:

- ✓ Listing affected networks with the worst excess/degradation
- ✓ Retrieving Reference Situation/Margin for each test point
- ✓ Displaying test points on a world map

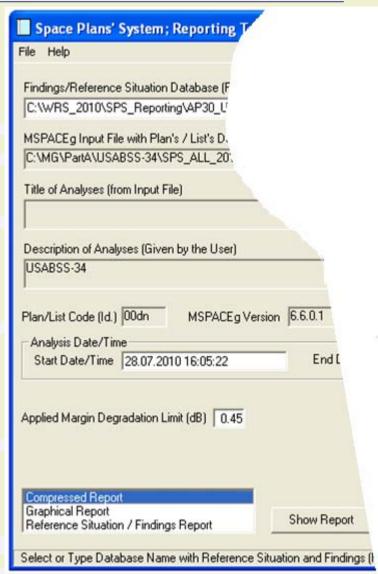
from the results of MSPACEg analysis on an AP30/30A Article 4 network.

SPS Reporting Tool



2. Its Reports:

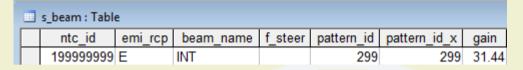
- ✓ "Compressed" report:
 - Affected network(s).
 - Affected Mspace beam(s).
 - Affected channel(s).
 - Worst excess/degradation.
- √ "Graphical" reports:
 - All test points.
 - Affected test points only.
- ✓ Reference Situation/ Findings report:
 - Reference situation vs margin for each test point.

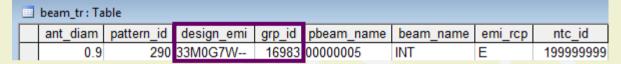




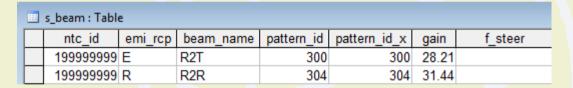
Satellite Beam Name vs Mspace Beam Name

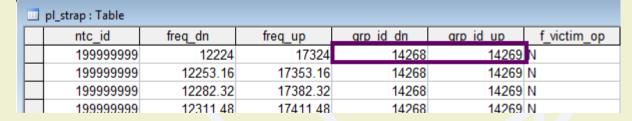
1. Regions 1 and 3: Mspace Beam Name = F(grp_id; design_emi)





2. Region 2: Mspace Beam Name = F(grp_id_dn;grp_id_up;strapping)





] beam_tr : Table							
	ant_diam	pattern_id	design_emi	grp_id	pbeam_name	beam_name	emi_rcp	ntc_id
	0.6	292	24M0G7W	14268	00000001	R2T	Е	199999999
	7	297	24M0G7W	14269	0000001	R2R	R	199999999
D								

Exercise



You are now requested to do one of the following exercises:

Exercise 1: Viewing results of a R1&3 BSS network (file: AP30_USABSS-34_mspace_results.mdb)

Exercise 2: Viewing results of a R1&3 BSS Feeder-link submission (file: AP30A_NSS-BSS 142E_mspace_results.mdb)

Exercise 3: Viewing results of a Region 2 submission

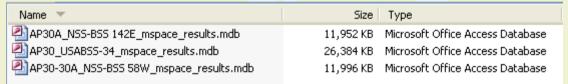
(file: AP30-30A_NSS-BSS 58W_mspace_results.mdb)

Step by step to do exercise



- 1. Copy folder "Space Plans" under "\Workshop\Space" from the USB key to your C drive.
- 2. Find Mspace results database under:

"\Space Plans\4_A30_30A SPS_REPORTs exercise\Exercise\"



3. Install a new SPS package. Set-up file under:

"\Space Plans\4_A30_30A SPS_REPORTs exercise\"



- 4. Run SPS_Reports (v3.6.0.1) on the selected Mspace results database to: (see slides 9-17 for Exercise 1, 18-26 for Exercise 2 and 27-35 for Exercise 3 for step by step to view Mspace results with SPS_Reports)
 - ✓ Create Compressed Report
 - ✓ Create Graphical Report
 - ✓ Create Reference Situation/Findings Report



Any Questions?

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Main contact person for Space Plan Services:

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Software: brsas@itu.int

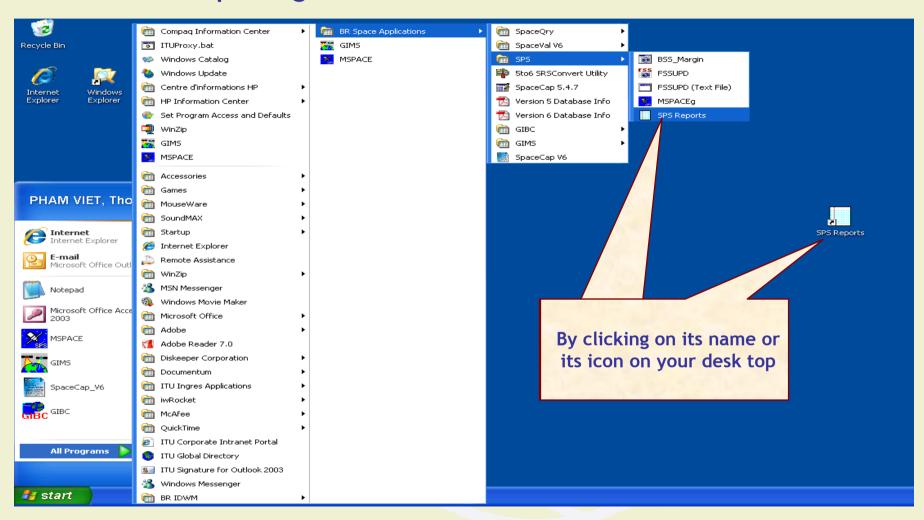


Viewing results of MSPACE for a R1&3 BSS network with SPS Reporting Tool

Exercise 1: Viewing results of MSPACE for a R1&3 BSS network with SPS Reporting Tool

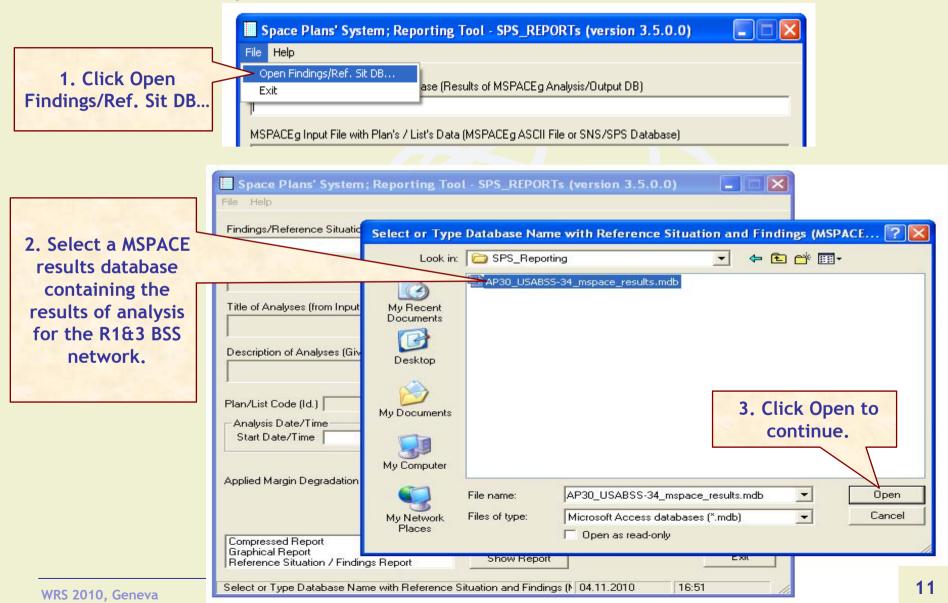
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1. Start SPS Reporting Tool



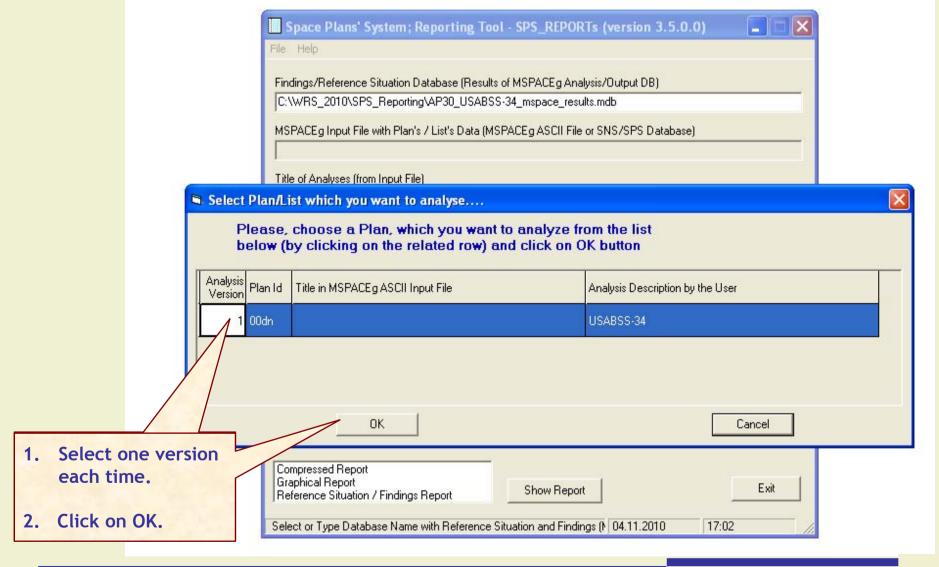


2. Select an Mspace results database





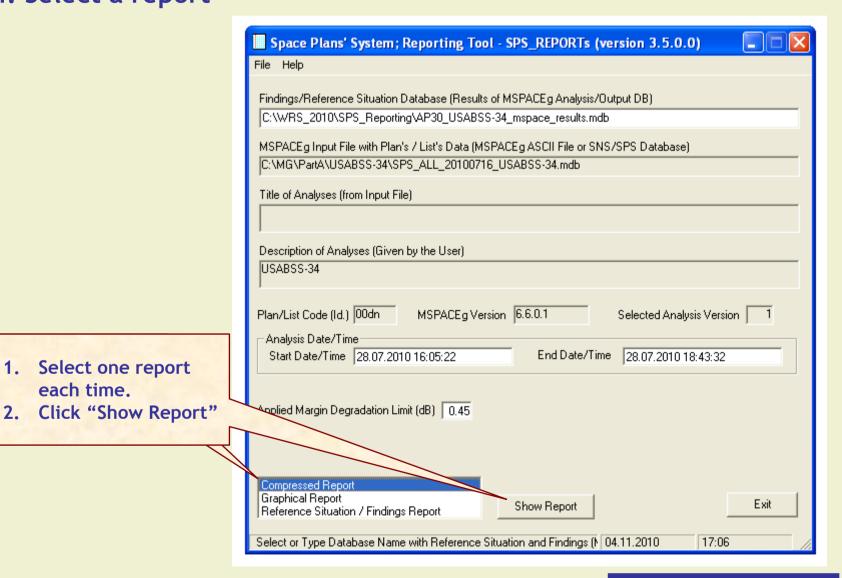
3. Select a version to analyze





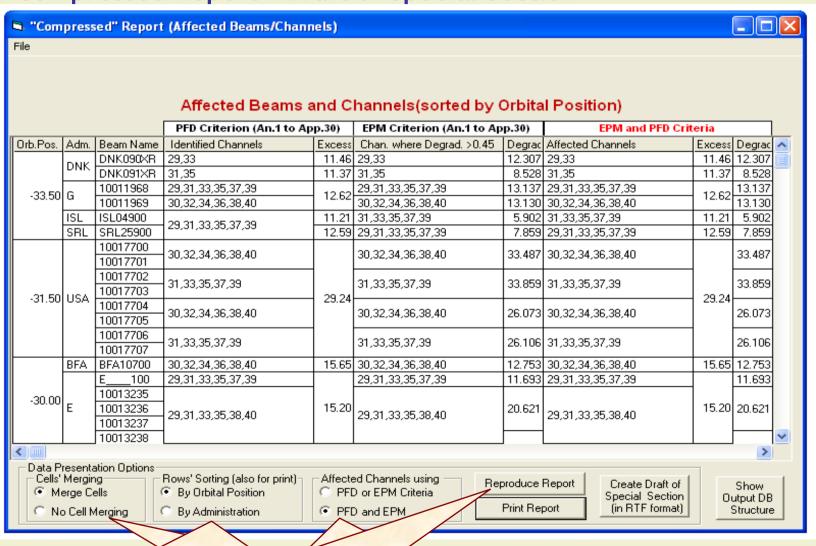
4. Select a report

1. Select one report each time.





4.1 Compressed Report / Draft of Special Section



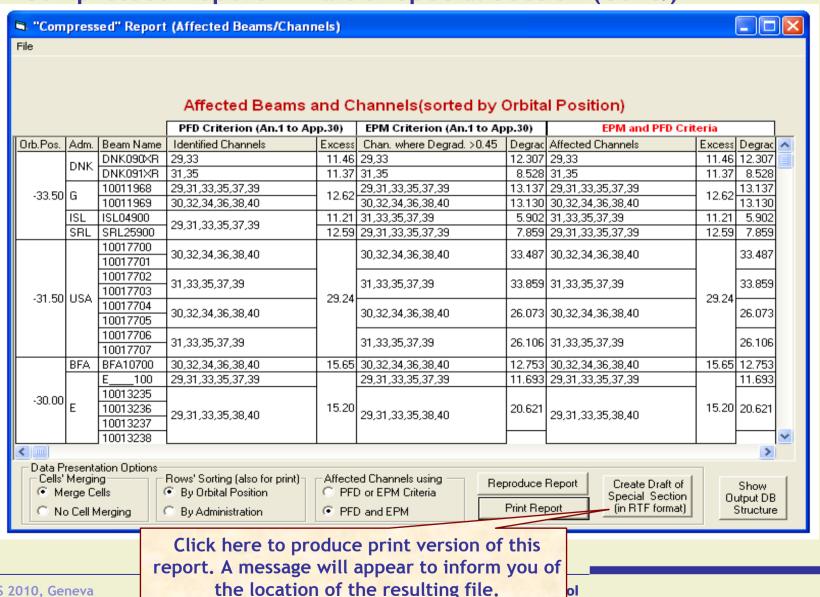
1. Select "Data Presentation Options"

. Click "Reproduce Report"

Reporting Tool



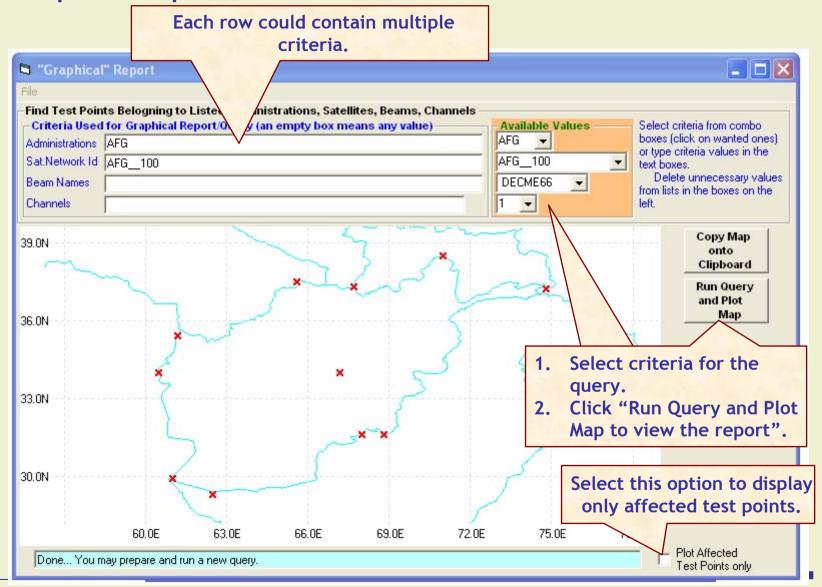
4.1 Compressed Report / Draft of Special Section (Cont.)



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4.2 Graphical Report

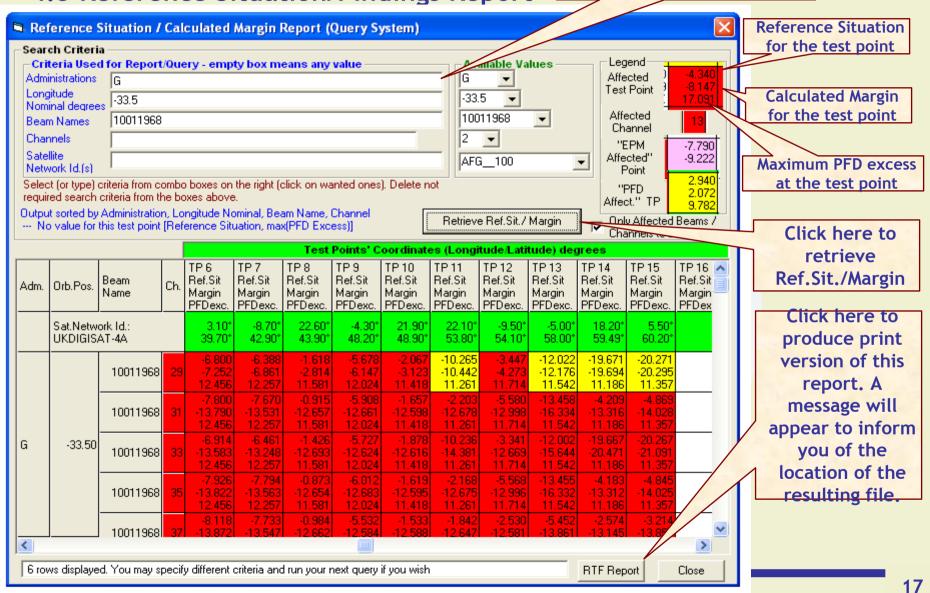


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Each row could contain multiple criteria.

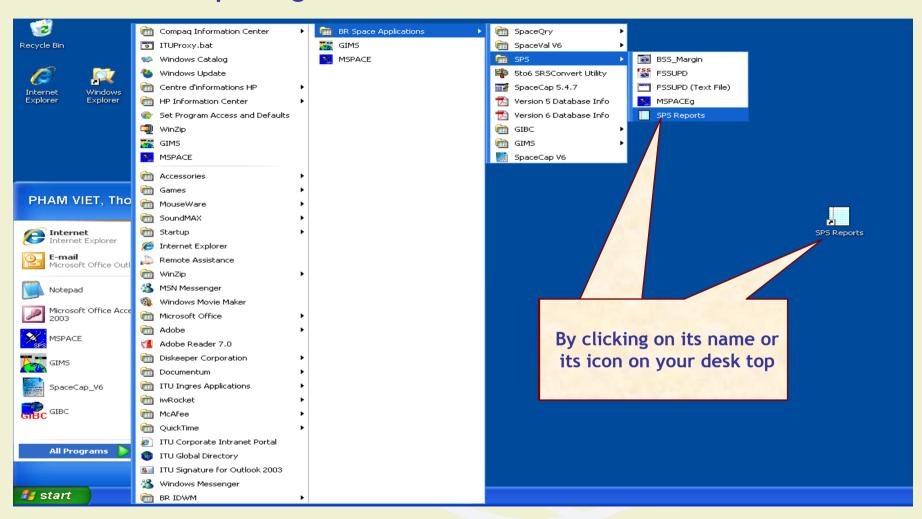


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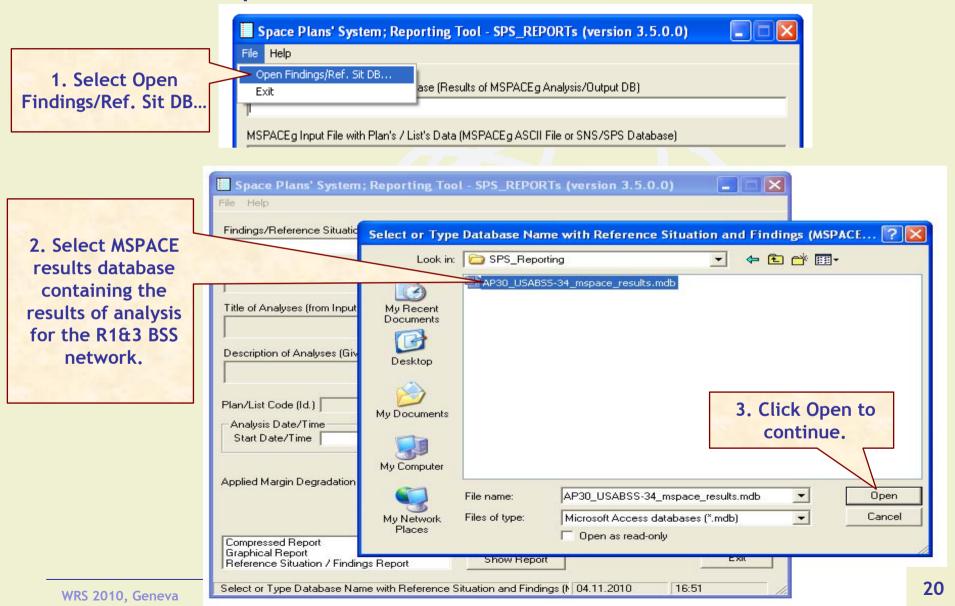
Viewing results of MSPACE for a R1&3 BSS Feeder-link network with SPS Reporting Tool

1. Start SPS Reporting Tool

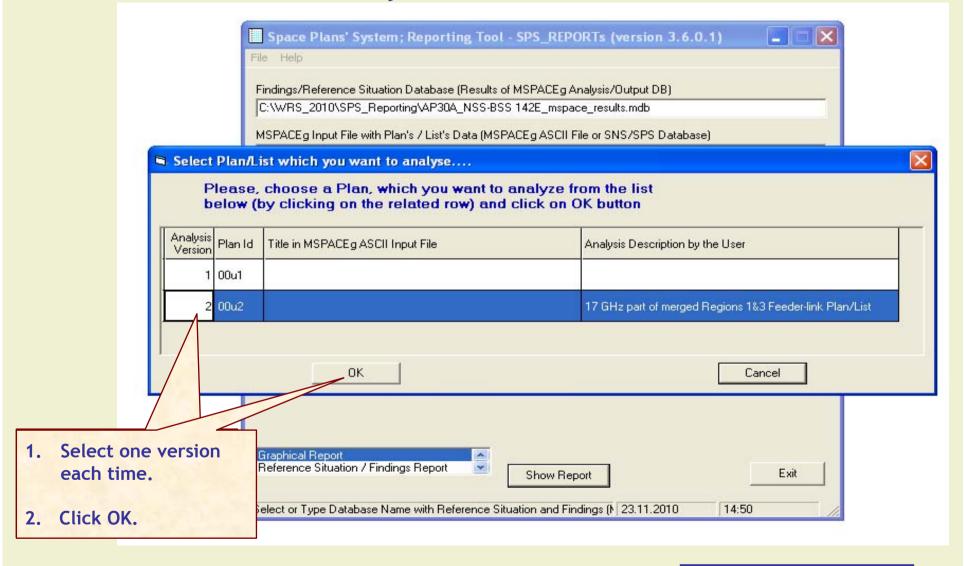




2. Select an Mspace results database

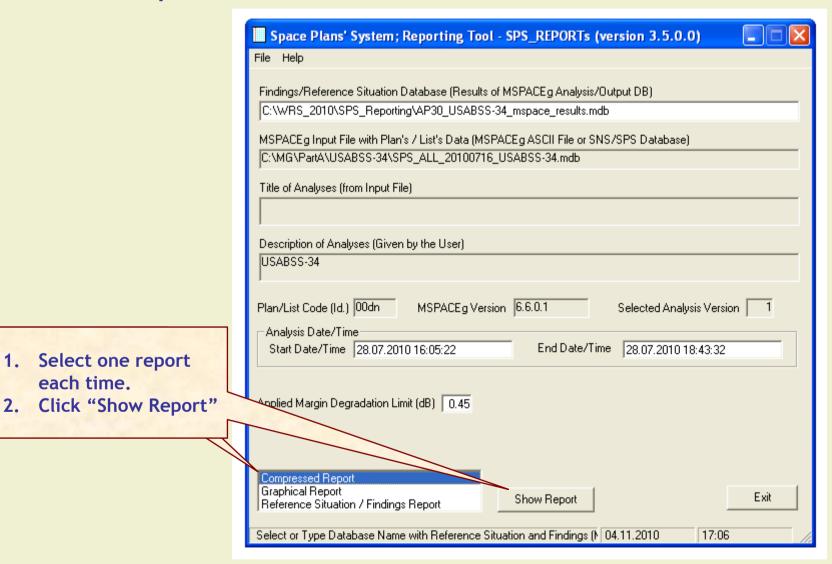


3. Select a version to analyze



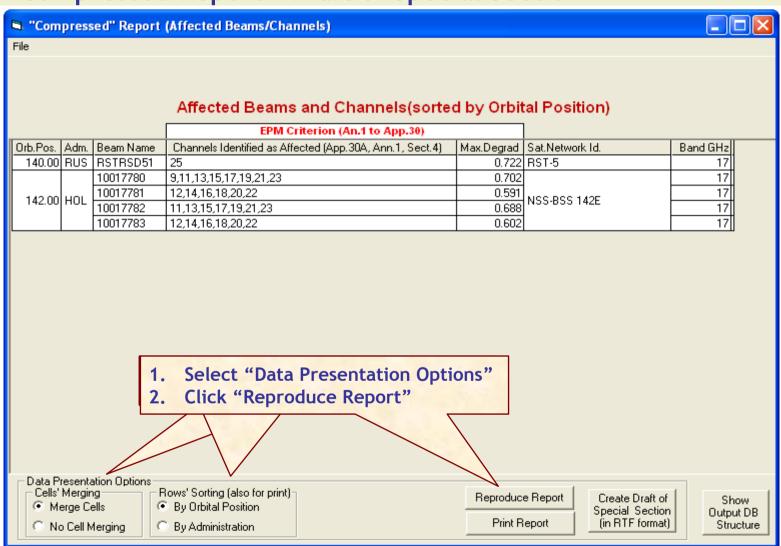


4. Select a report

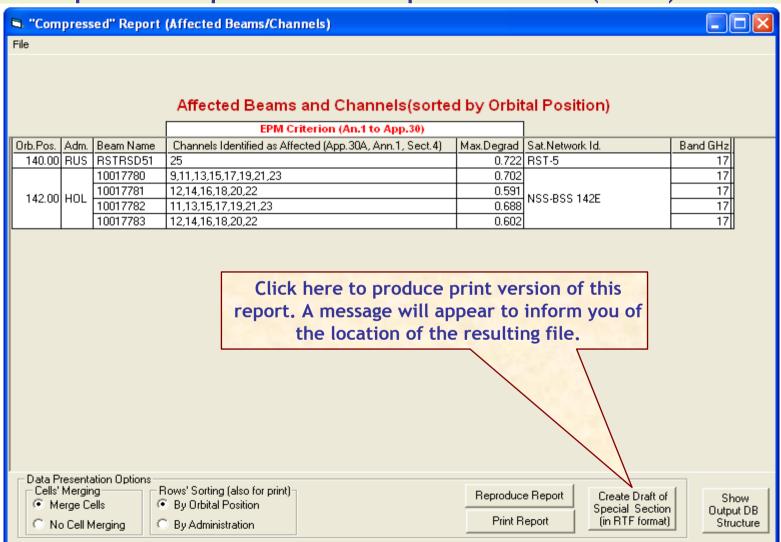


1. Select one report each time.

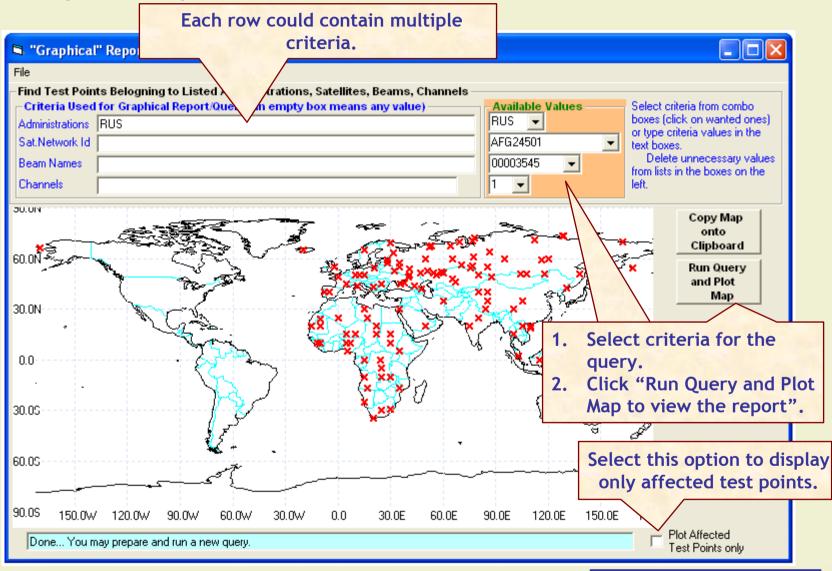
4.1 Compressed Report / Draft of Special Section



4.1 Compressed Report / Draft of Special Section (Cont.)

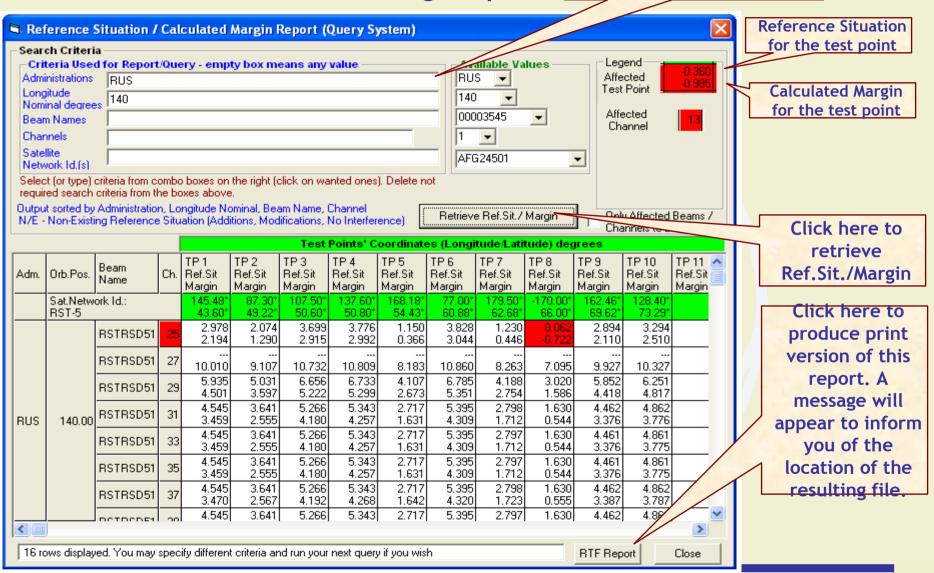






4.3 Reference Situation/Findings Report

Each row could contain multiple criteria.

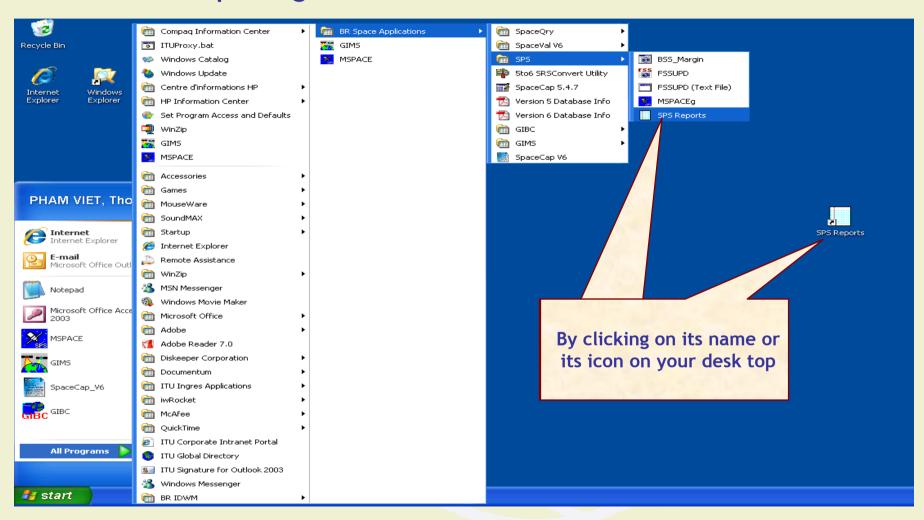




Viewing results of MSPACE for a Region 2 network with SPS Reporting Tool

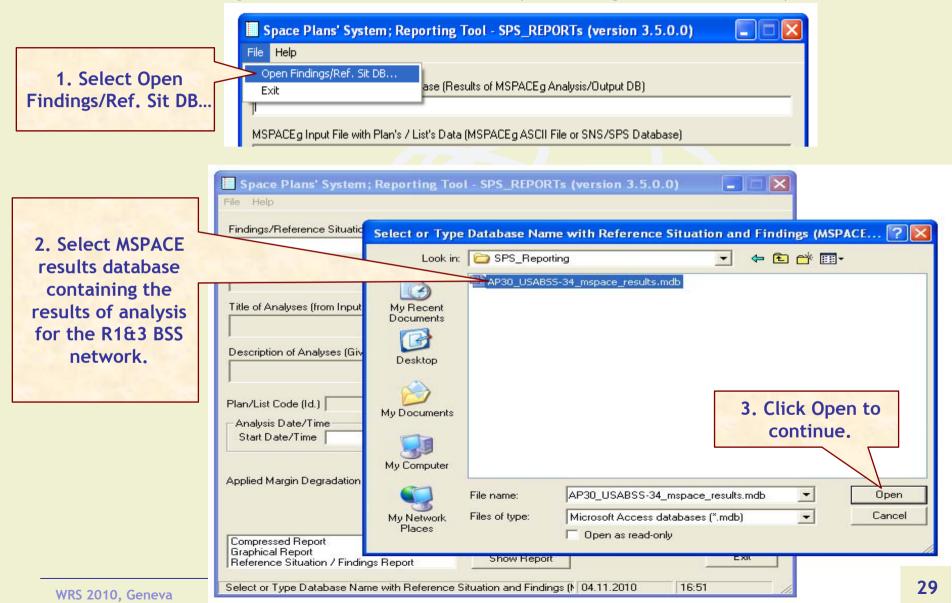


1. Start SPS Reporting Tool



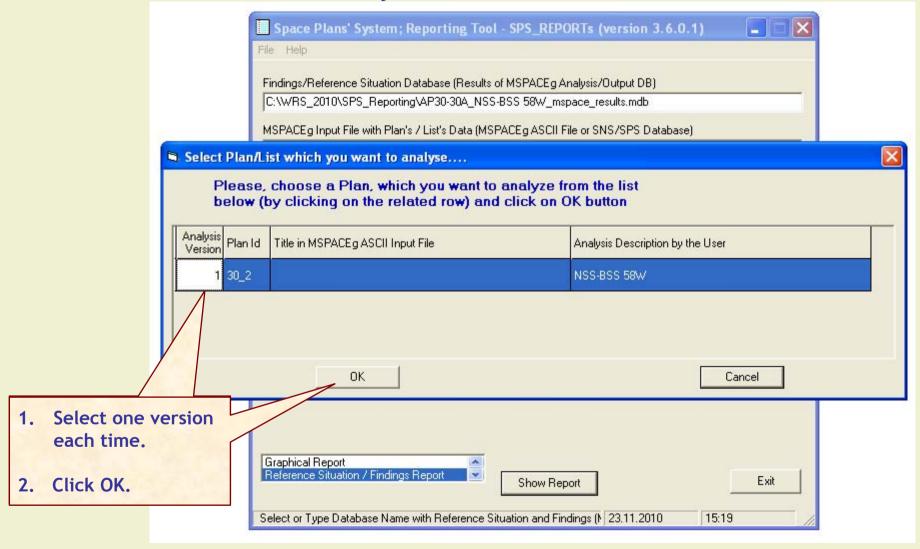


2. Select an Mspace results database (to be updated for R2)



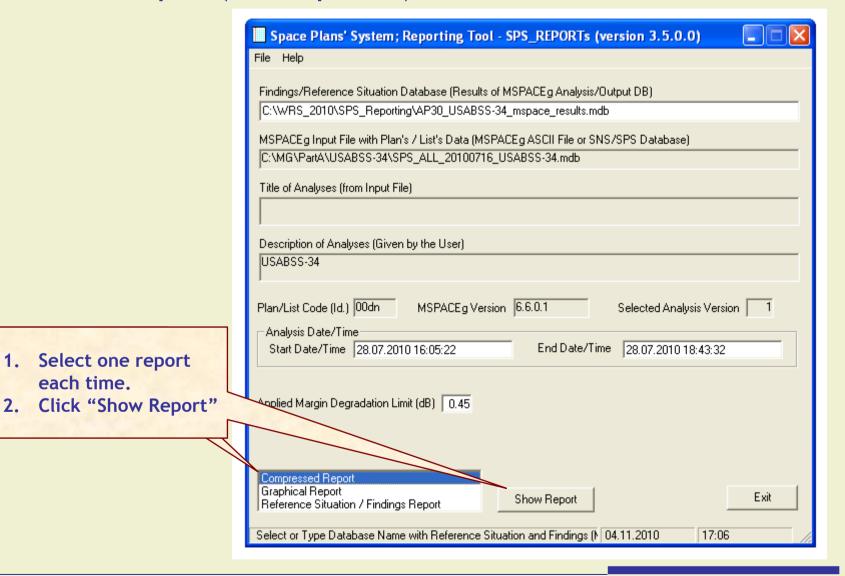


3. Select a version to analyze





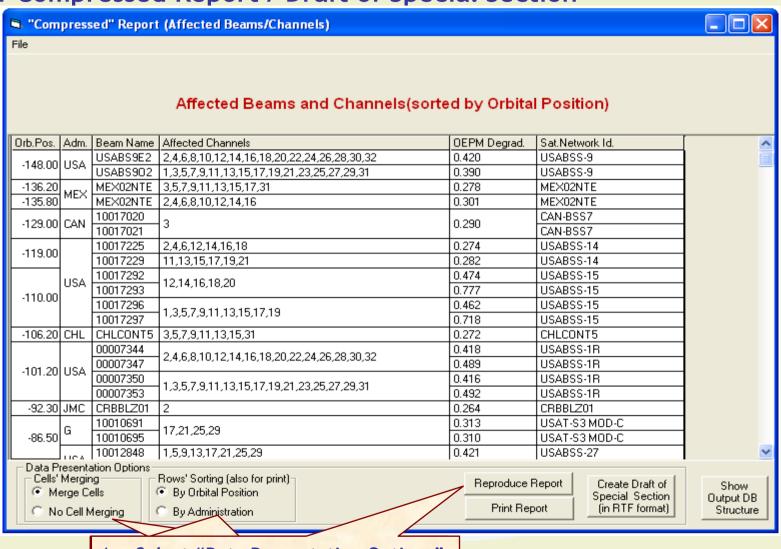
4. Select a report (to be updated)



each time.



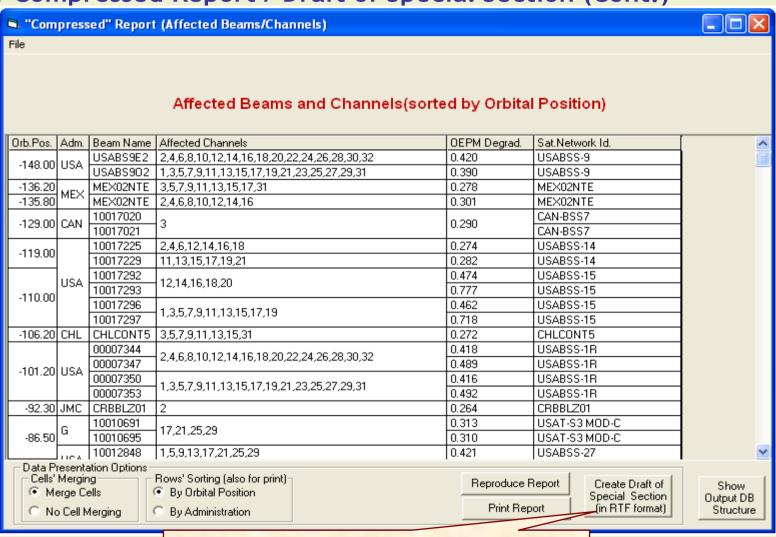
4.1 Compressed Report / Draft of Special Section



- 1. Select "Data Presentation Options"
- 2. Click "Reproduce Report"



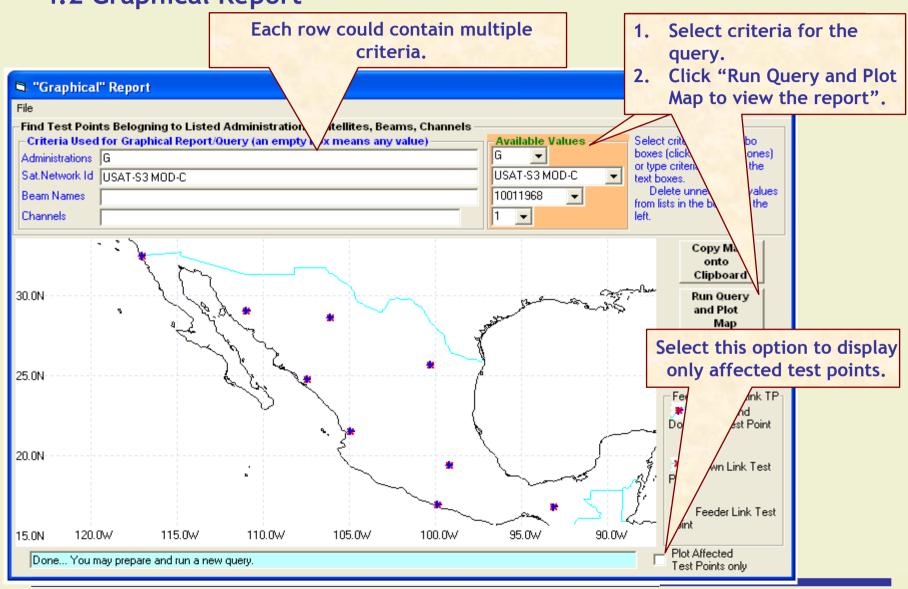
4.1 Compressed Report / Draft of Special Section (Cont.)



Click here to produce print version of this report. A message will appear to inform you of the location of the resulting file.

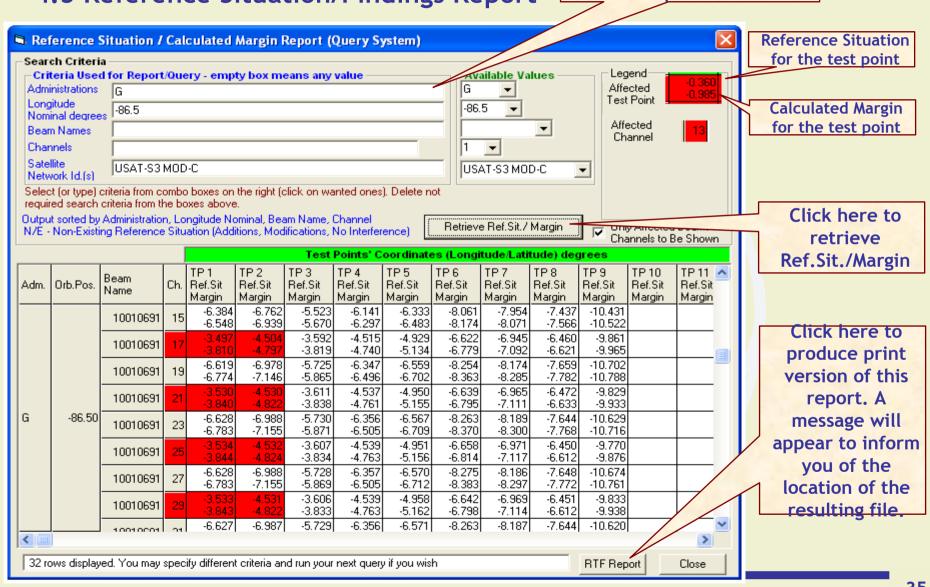


4.2 Graphical Report





Each row could contain multiple criteria.

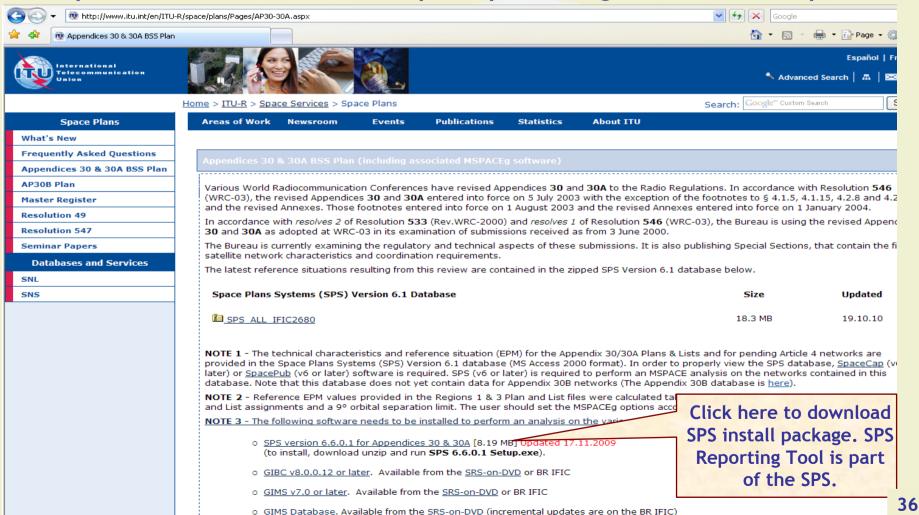




Annex1: Where to get an install package of SPS

Latest SPS install package could be downloaded from the ITU website at:

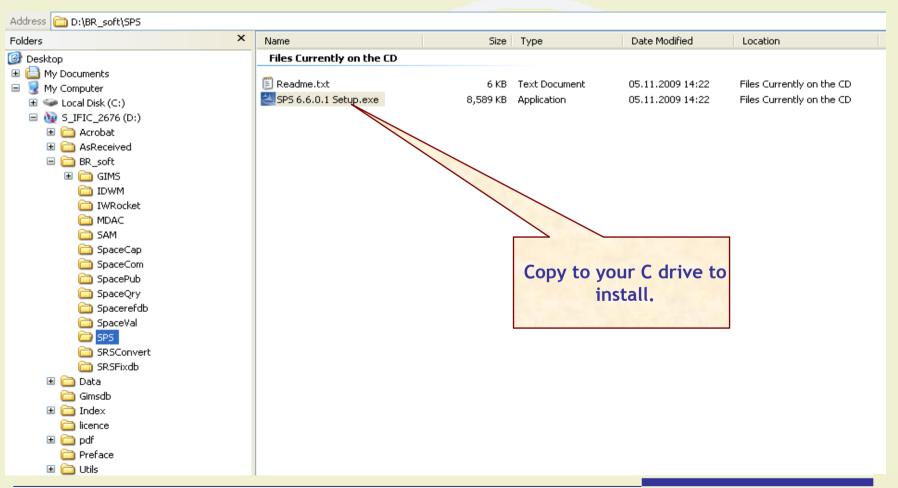
http://www.itu.int/en/ITU-R/space/plans/Pages/AP30-30A.aspx





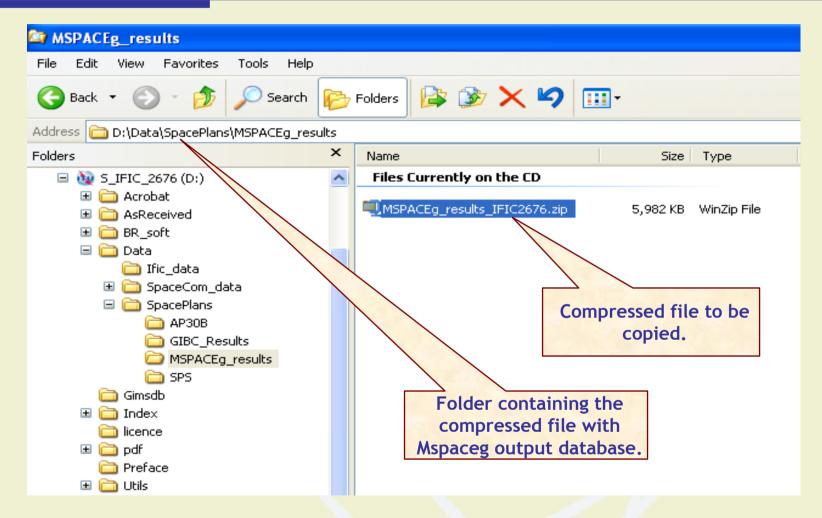
Annex1: Where to get an install package of SPS (Cont.)

 SPS install package could also be obtained from BR IFICs (Space Services) from the following directory.
 \BR_soft\SPS\



Annex2: Get Mspace results available in BR IFICs



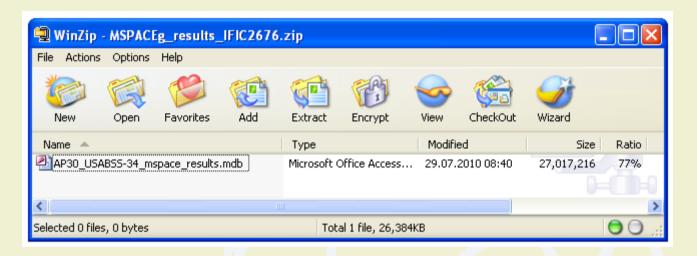


Copy the compressed file with Mspaceg output databases containing analysis results from the BRIFIC to the user's computer.

Annex2: Get Mspace results available in BR IFICs for SPS Reporting Tool (Cont.)



Unpack the compressed file to get the Mspaceg output database(s)



The analysis results of the USABSS-34 network (downlink part) are stored in the file having name, which combines:

- ✓ a prefix AP30 for R1&3 BSS; AP30A for R1&3 BSS Feeder-link and AP30_30A for R2 BSS/Feeder-link;
- ✓a given network name (USABSS-34);
- ✓ suffix mspaceg_results;
- ✓ dot (.);
- ✓ extension MDB.