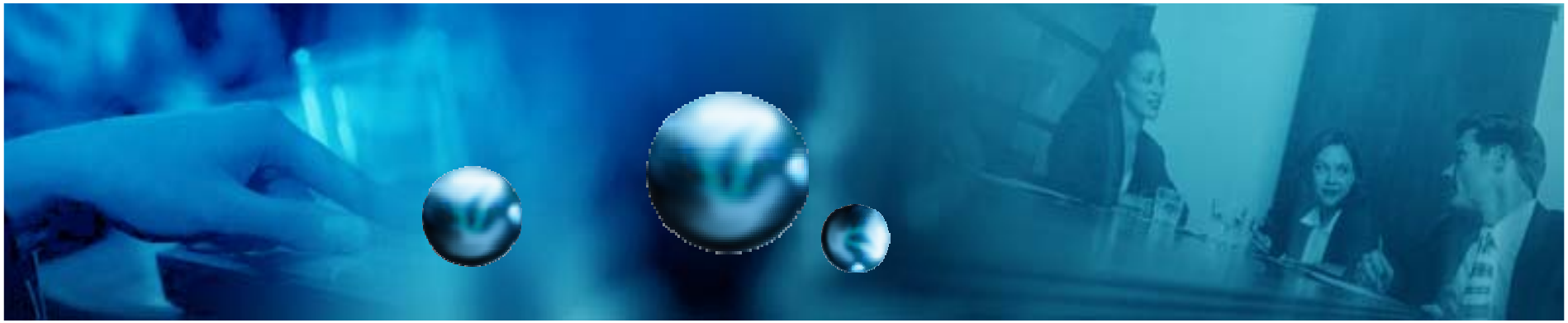
Regulatory examination and technical aspects



Omar Ka
ITU/BR/SSD/SSC
Omar.ka@itu.int

ITU-R Space Regulatory Workshop Niamey, Niger 5-9 December 2011

Purpose of the presentation

- To help understand the coordination examination process
- To introduce the software tools used in the examination (GIBC, FOT, FOS)
- To review the CR/C publication

Overall Process

Administration

- Capture network data in SNS & GIMS format
- Validate

BR

Data Preparation

- Check Receivability
- Publish "As-received"
- Pre-validate
- Establish Date of receipt
- Prepare Notice
- Prepare graphical (GIMS) data
- Validate

Coordination Examination

- Check for conformity with the Table of Frequency Allocation (Article 5 of the RR)
- Establish findings
- Establish coordination provisions & requirements

Publication

Coordination Examination is composed of …

No. 9.35 :

Conformity with Table of Frequency Allocation, Art. 21 , etc…

No. 9.36:

Identify any administration with which coordination may need to be effected

Coordination Examination

The first part … in brief

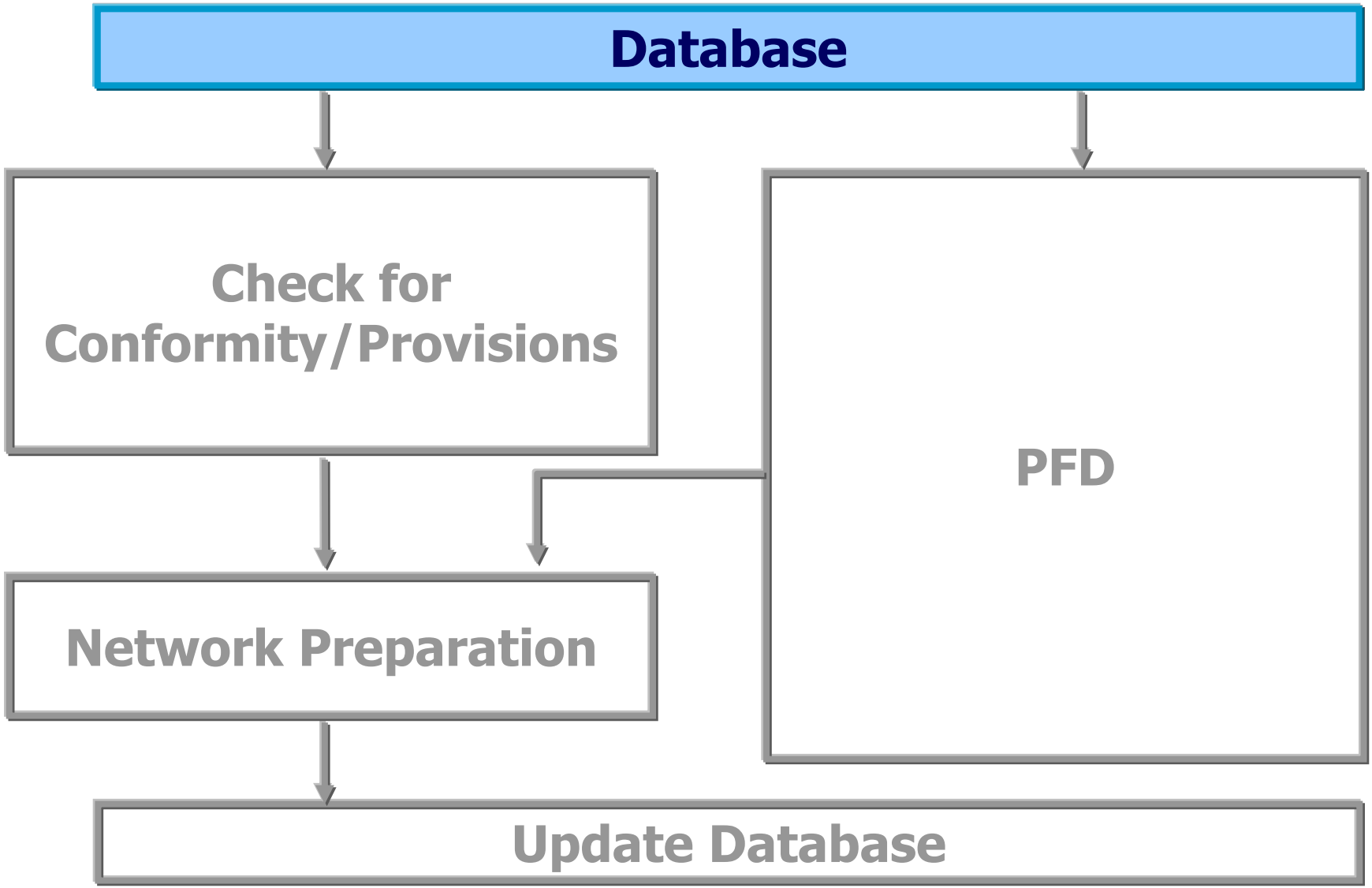
No. 9.35 :

Conformity with Table of Frequency Allocation, hard EIRP and PFD limits, etc…

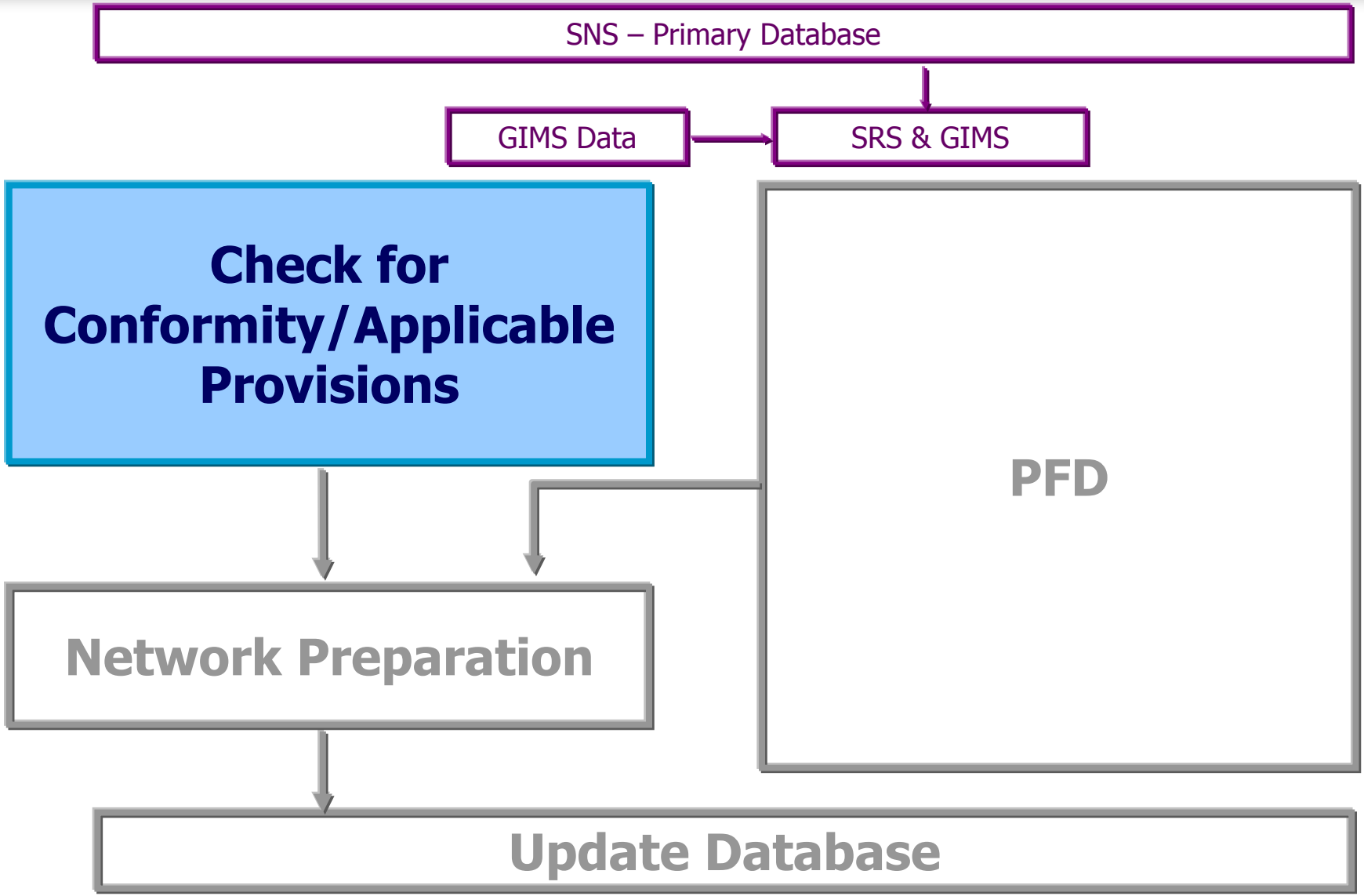
- Check for conformity …
- Identify coordination provisions
- Examine hard EIRP and PFD limits)
- Split Groups of frequency assignments
- Enter Findings

Coordination Examination

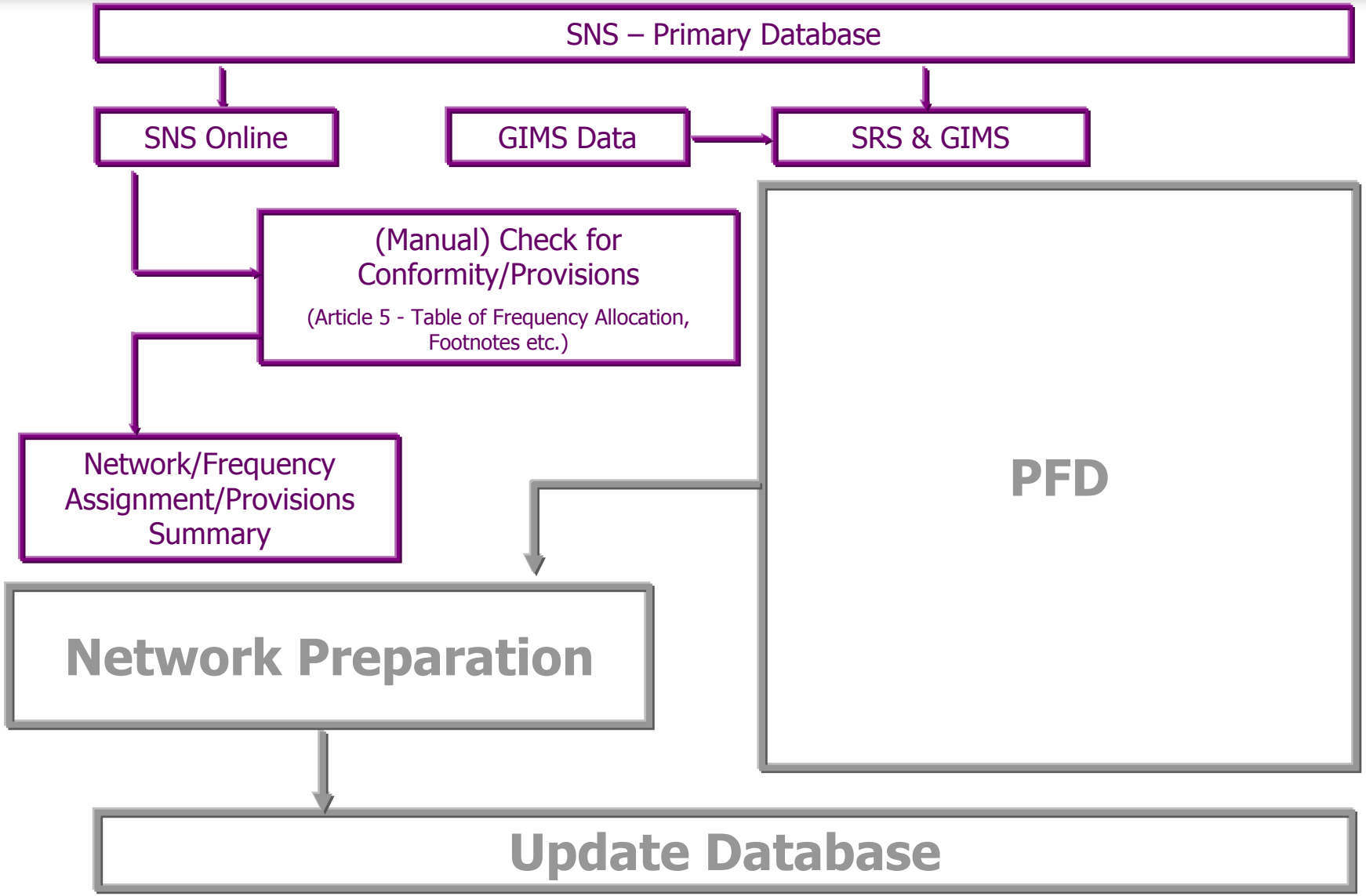
… and now in detail



These are the databases used …



… to check for Conformity & Provisions



… to check for Conformity & Provisions

Table of Frequency Allocation

Allocation to services		
Region 1	**Region 2**	**Region 3**
1 525-1 530 SPACE OPERATION (space-to-Earth) FIXED MOBILE-SATELLITE (space-to-Earth) 5.351A Earth exploration-satellite Mobile except aeronautical mobile 5.349 5.341 5.342 5.350 5.351 5.352A 5.354	**1 525-1 530** SPACE OPERATION (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) 5.351A Earth exploration-satellite Fixed Mobile 5.343 5.341 5.351 5.354	**1 525-1 530** SPACE OPERATION (space-to-Earth) FIXED MOBILE-SATELLITE (space-to-Earth) 5.351A Earth exploration-satellite Mobile 5.349 5.341 5.351 5.352A 5.354
1 530-1 535 SPACE OPERATION (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) 5.351A 5.353A Earth exploration-satellite Fixed Mobile except aeronautical mobile 5.341 5.342 5.351 5.354	**1 530-1 535** SPACE OPERATION (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) 5.351A 5.353A Earth exploration-satellite Fixed Mobile 5.343 5.341 5.351 5.354	
1 535-1 559	MOBILE-SATELLITE (space-to-Earth) 5.351A 5.341 5.351 5.353A 5.354 5.355 5.356 5.357 5.357A 5.359 5.362A	

SNS Online

TRANSMIT (E) BEAMS				
FREQ.[MHz]	AB [kHz]	FR.BAND [MHz]	CLASS	BEAM
				D1R
1527.500	5000	1525.0000 - 1530.0000	EG, EU	x
1531.500	3000	1530.0000 - 1533.0000		x
1538.500	11000	1533.0000 - 1544.0000	EG	x
1550.000	10000	1545.0000 - 1555.0000	EJ	x
1557.000	4000	1555.0000 - 1559.0000	EU	x

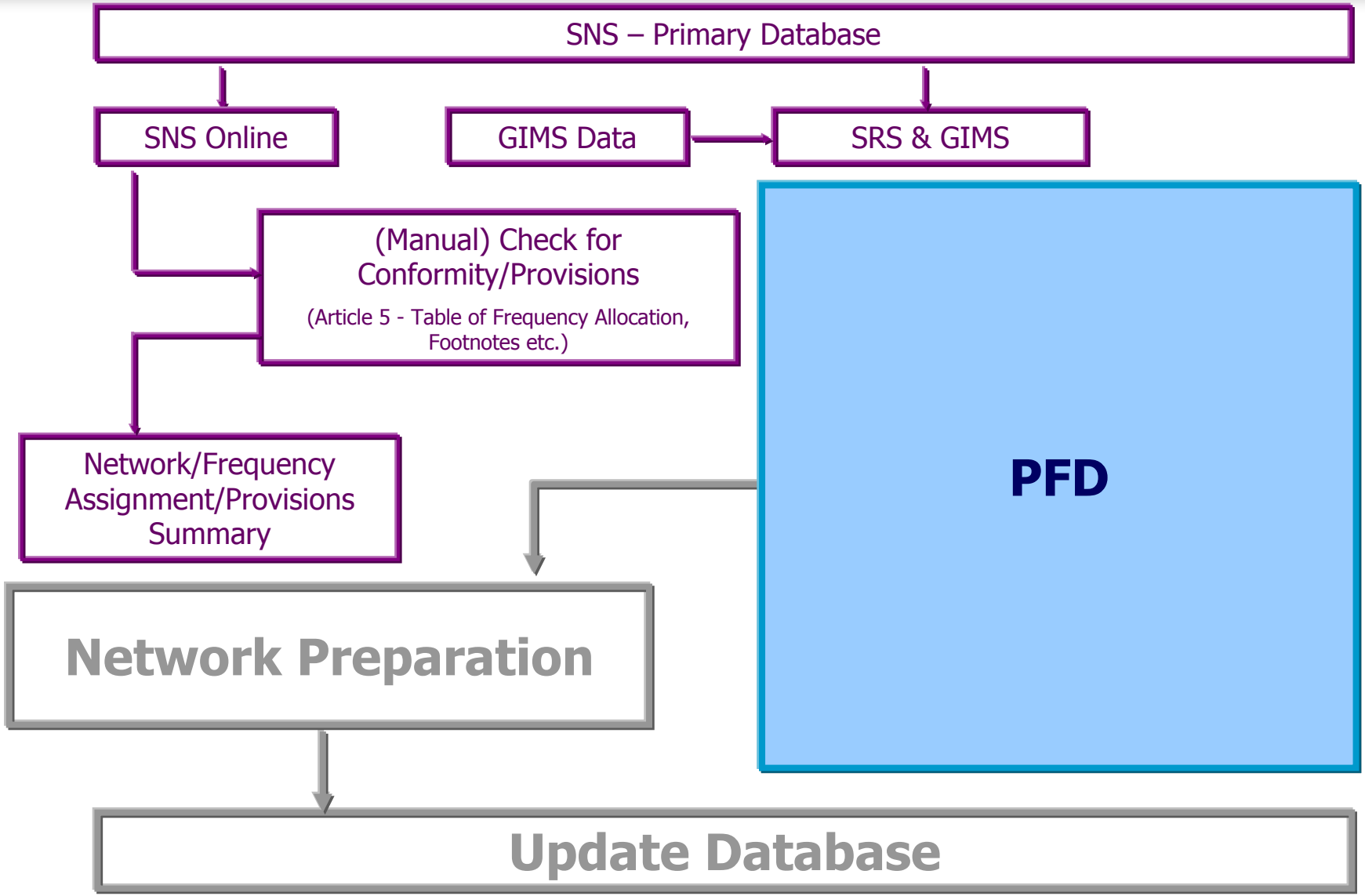
http://www.itu.int/sns/ntwktab.html

Footnotes

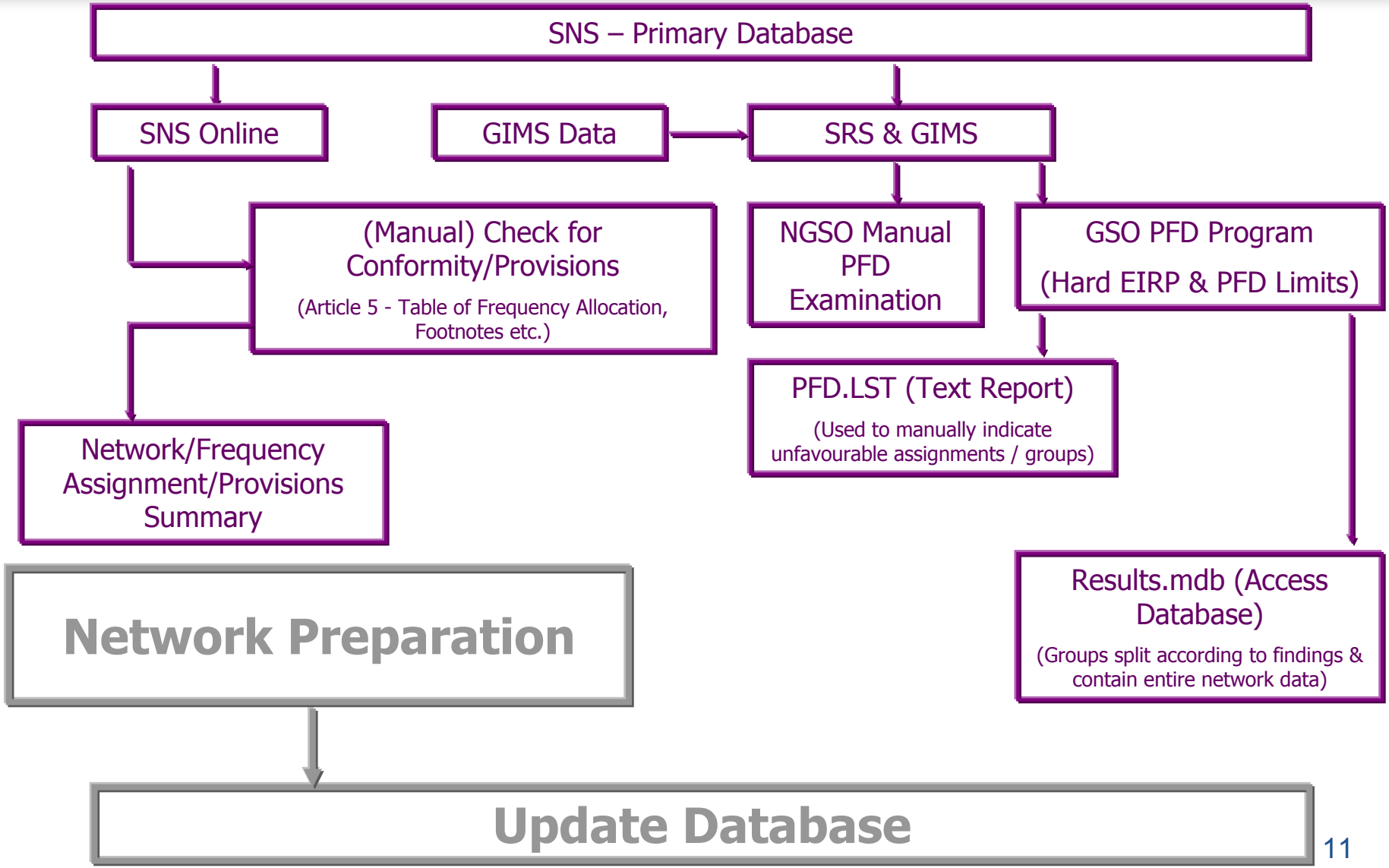
5.354 The use of the bands 1 525-1 559 MHz and 1 626.5-1 660.5 MHz by the mobile-satellite services is subject to coordination under No. **9.11A**.

Applicable Coordination Provision(s): 9.11A … etc.

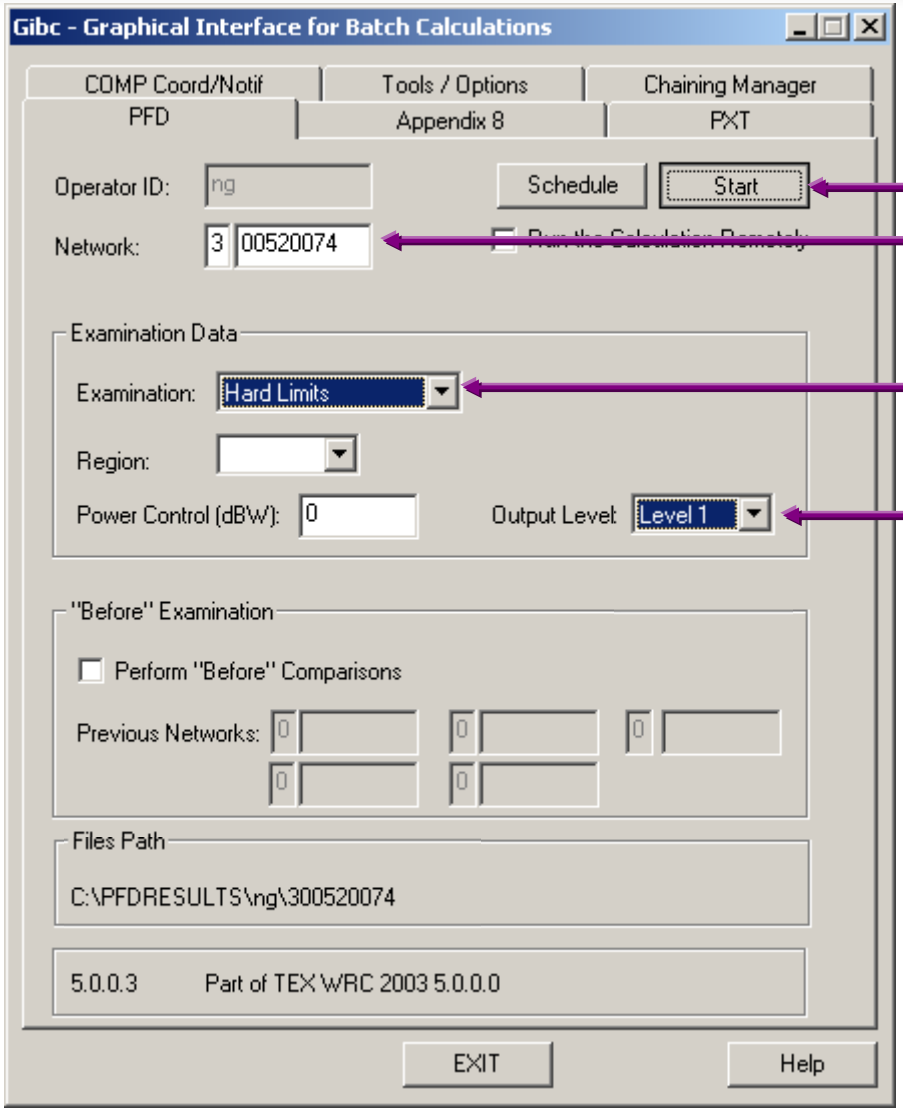
… to check for Conformity & Provisions



… and examine PFD



… and examine PFD



GIBC – Hard EIRP/PFD Limits

Enter Network ID

Select Examination Type: Hard Limits

Select Output Level: Level 1 (typical)

1 - One worst case point with excess

2 - One worst case point per country with excess

3 - One case per country even without excess

Click Start

… and examine PFD

PFD.LST (Text Report)

Beam

Group ID

```
START OF JOB SNSBPFD      30.10.02      18.30.39        VERSION 4.14        300520074  H      ng      01N
EARTH STATION E.I.R.P. VALUES BE CHECKED AGAINST ARTICLE 21 LIMITS
SPACE STATION PFD VALUES WILL BE CHECKED AGAINST HARD      LIMITS ONLY

          SNS      HARD LIMITS for EUTELSAT 3-25.5E (300520074) EXAMINATION REQUESTED BY : ng DATE: 30/10/02 18:30:39
  E  /EUT  EUTELSAT 3-25.5E       25.50E  0.10 0.10                    02.05.00                                C 300.520074
B3R              35.5 DB    POINTING ACC  0.20 DEG                          300.520074
  EC              36000 KHZ    02.05.00                                                                          300.612446
    12.22141 G       36000 KHZ  36M0F3F--  18.0 DBW  -48.0 DBW/HZ                                          N-        0001
             ( 7) RR 21.16            FIXED-SATELLITE                                          REF. BW   0.004 MHZ
             REGION 3                                    101E08 17N54 LA0       35.5 -139.8    8.2 -148.0    N-
    12.22141 G       36000 KHZ  35M0G7W--  18.0 DBW  -55.6 DBW/HZ                                          N-        0001
             ( 7) RR 21.16            FIXED-SATELLITE                                          REF. BW   0.004 MHZ
             REGION 3                                    101E08 17N54 LA0       35.5 -147.4    0.6 -148.0    N-
    12.22141 G       36000 KHZ  30M0F3F--  18.0 DBW  -48.0 DBW/HZ                                          N-        0001
             ( 7) RR 21.16            FIXED-SATELLITE                                          REF. BW   0.004 MHZ
             REGION 3                                    101E08 17N54 LA0       35.5 -139.8    8.2 -148.0    N-
    12.22141 G       36000 KHZ  27M0F3F--  18.0 DBW  -48.0 DBW/HZ                                          N-        0001
             ( 7) RR 21.16            FIXED-SATELLITE                                          REF. BW   0.004 MHZ
             REGION 3                                    101E08 17N54 LA0       35.5 -139.8    8.2 -148.0    N-
    12.22141 G       36000 KHZ  9M00G7W--  18.0 DBW  -49.5 DBW/HZ                                          N-        0001
             ( 7) RR 21.16            FIXED-SATELLITE                                          REF. BW   0.004 MHZ
             REGION 3                                    101E08 17N54 LA0       35.5 -141.3    6.7 -148.0    N-
    12.22141 G       36000 KHZ  2M05G7W--  13.5 DBW  -48.0 DBW/HZ                                          N-        0001
             ( 7) RR 21.16            FIXED-SATELLITE                                          REF. BW   0.004 MHZ
             REGION 3                                    101E08 17N54 LA0       35.5 -139.8    8.2 -148.0    N-
    12.24216 G       36000 KHZ  36M0F3F--  18.0 DBW  -48.0 DBW/HZ                                          N-        0002
             ( 7) RR 21.16            FIXED-SATELLITE                                          REF. BW   0.004 MHZ
             REGION 3                                    101E08 17N54 LA0       35.5 -139.8    8.2 -148.0    N-
```

N- Finding

Frequency Assignment

Worst case location

PFD

Excess

PFD Limit

… and examine PFD

BatchResults.mdb (Access Database)

Grp Table

grp : Table

fdg_reg	fdg_plan	fdg_tex	fdg_observ	spl_grp_id
N-	--	--		300612446
N-	--	--		300612447
N-	--	--		300612448
N-	--	--		300612449
N-	--	--		300612452
N-	--	--		300612453
N-	--	--		300612454
N-	--	--		300612455
N-	--	--		300612458
N-	--	--		300612459
N-	--	--		300612460
N-	--	--		300612461
N-	--	--		300612468
N-	--	--		300612469
N-	--	--		300612470

Record: 157 of 172

Unfavourable Finding

Fdg_ref Table

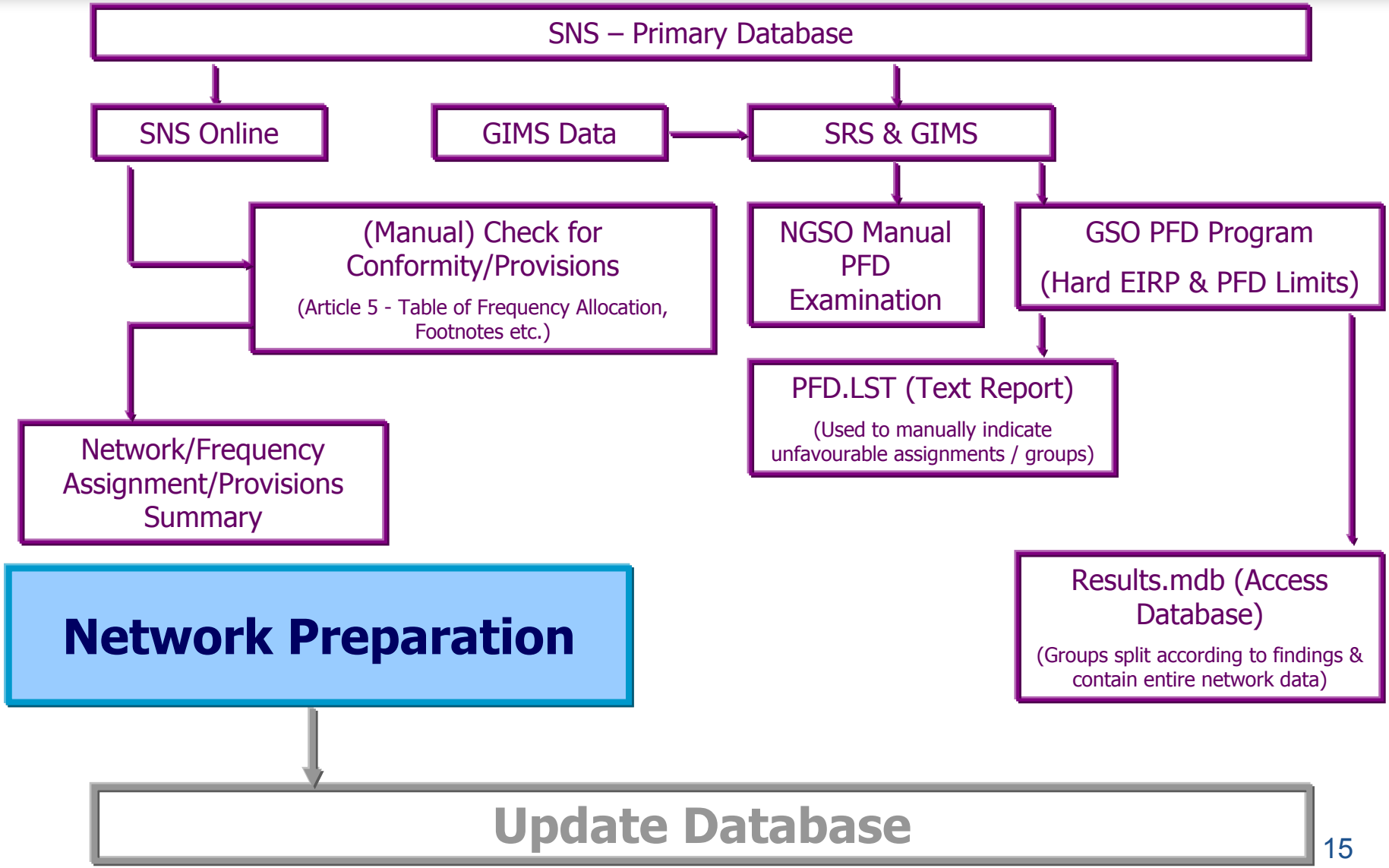
fdg_ref : Table

grp_id	seq_no	d_fdg_rev	d_type	fdg_prov
300612450	1			X/21.16
300612451	1			X/21.16
300612456	1			X/21.16
300612457	1			X/21.16
300612462	1			X/21.16
300612463	1			X/21.16
300612472	1			X/21.16
300612473	1			X/21.16
300612474	1			X/21.16
300612475	1			X/21.16
300612476	1			X/21.16
300612477	1			X/21.16
300612478	1			X/21.16
300612479	1			X/21.16
300612480	1			X/21.16
300612481	1			X/21.16
300612482	1			X/21.16
300612483	1			X/21.16
300612484	1			X/21.16
300612485	1			X/21.16
300612486	1			X/21.16
300612487	1			X/21.16
300612488	1			X/21.16
300612489	1			X/21.16

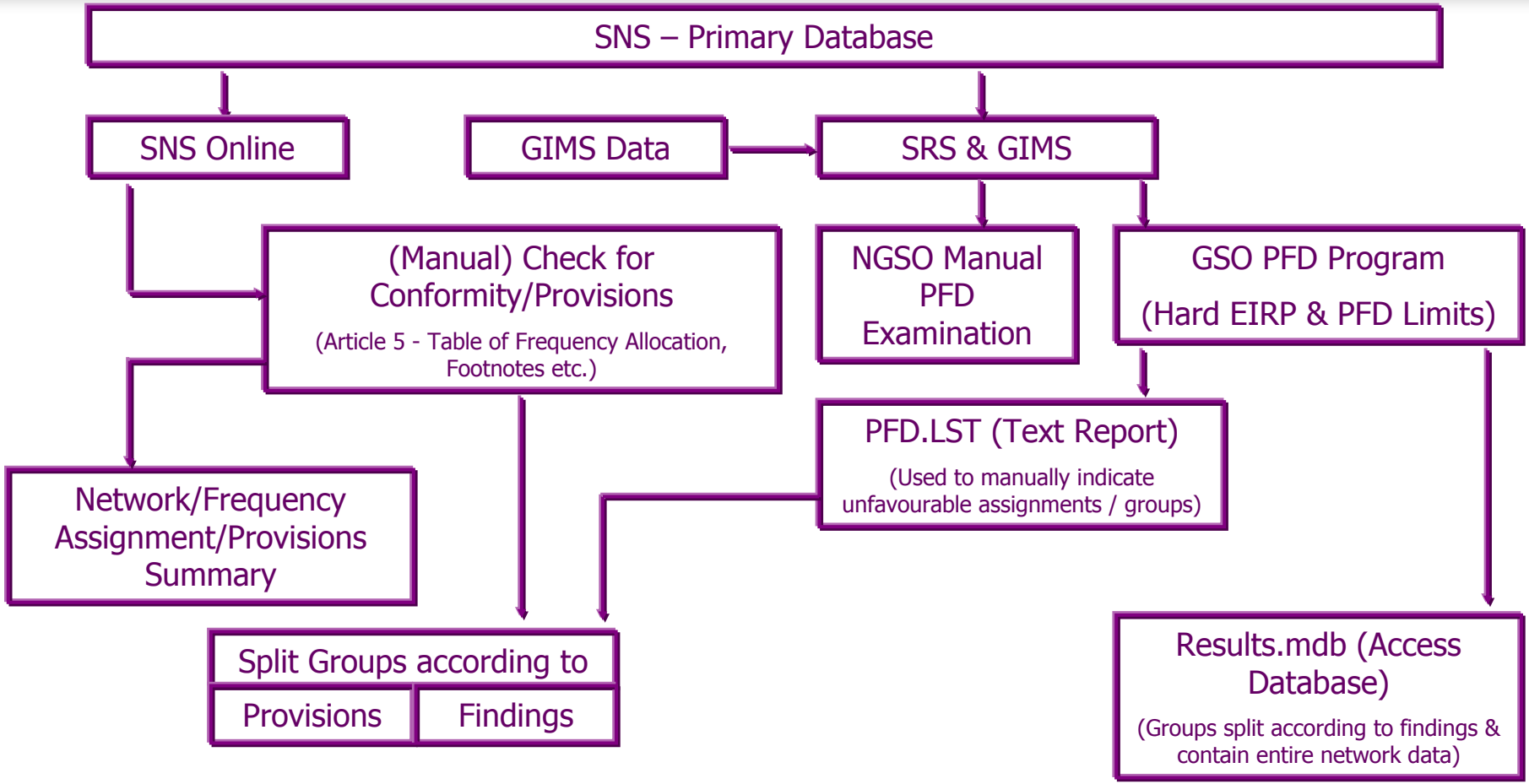
Record: 19 of 42

Provision

… and examine PFD



Proceed to Split Groups



Update Database

… for Provisions

BR7a/BR7b Group id.	99929713	BR14 Special Section	CR/C/256
C4a Class of station	EC	C3a Assigned freq. band	36000
C4b Nature of service	CR	C6a Polarization type	V
C6b Polarization angle		C8d/C8g Max. pwr	22.5
C11a1 Service area no.	1	C11a2 Service area	
C11a3 Service area diagra			
A5/A6 Coordination			
A2a Date of bringing into use	31.01.2005	A2b Period of valid.	20
A3a Op. agency	120	A3b Adm. resp.	A
BR16 Value of type C8b		BR17 Reason for C8c/C8e al	

C2a Assigned frequency

10.97	GHz	11.02	GHz	11.72	GHz	11.8	GHz	11.88	GHz	11.96	GHz	12.04	GHz	12.12	GHz
10.98	GHz	11.05	GHz	11.76	GHz	11.84	GHz	11.92	GHz	12	GHz	12.08	GHz	12.16	GHz

9.7 : ADM1, ADM2

9.7 : ADM3, ADM4
AP30#7.1 : ADM5
9.14 : ADM6

BR7a/BR7b Group id.	99929713	BR14 Special Section	CR/C/256
C4a Class of station	EC	C3a Assigned freq. band	36000
C4b Nature of service	CR	C6a Polarization type	V
C6b Polarization angle		C8d/C8g Max. pwr	22.5
C11a1 Service area no.	1	C11a2 Service area	
C11a3 Service area diagra			
A5/A6 Coordination			
A2a Date of bringing into use	31.01.2005	A2b Period of valid.	20
A3a Op. agency	120	A3b Adm. resp.	A
BR16 Value of type C8b		BR17 Reason for C8c/C8e al	

C2a Assigned frequency

10.97	GHz	11.02	GHz	11.72	GHz	11.8	GHz	11.88	GHz	11.96	GHz	12.04	GHz	12.12	GHz
10.98	GHz	11.05	GHz	11.76	GHz	11.84	GHz	11.92	GHz	12	GHz	12.08	GHz	12.16	GHz

9.7 : ADM1, ADM2, ADM3, ADM4
AP30#7.1 : ADM5
9.14 : ADM6

… for Provisions

BR7a/BR7b Group id. 99929713 | BR14 Special Section CR/C/256
C4a Class of station EC | C3a Assigned freq. band 36000
C4b Nature of service CR | C6a Polarization type V | C6b Polarization angle | C8d/C8g Max. pwr 22.5
C11a1 Service area no. 1 | C11a2 Service area | C11a3 Service area diagra
A5/A6 Coordination
A2a Date of bringing into use 31.01.2005 | A2b Period of valid. 20 | A3a Op. agency 120 | A3b Adm. resp. A | BR16 Value of type C8b | BR17 Reason for C8c/C8e al

C2a Assigned frequency

10.97	GHz	11.02	GHz	11.72	GHz	11.8	GHz	11.88	GHz	11.96	GHz	12.04	GHz	12.12	GHz
10.98	GHz	11.05	GHz	11.76	GHz	11.84	GHz	11.92	GHz	12	GHz	12.08	GHz	12.16	GHz

9.7 : ADM3, ADM4
AP30#7.1: ADM5
9.14 : ADM6

BR7a/BR7b Group id. 99929714 | BR14 Special Section CR/C/256
C4a Class of station EC | C3a Assigned freq. band 36000
C4b Nature of service CR | C6a Polarization type V | C6b Polarization angle
C11a1 Service area no. 1 | C11a2 Service area
A5/A6 Coordination
A2a Date of bringing into use 31.01.2005 | A2b Period of valid. 20 | A3a Op. agency 120 | A3b Adm. resp. A | BR16 Value

C2a Assigned frequency

11.72	GHz	11.8	GHz	11.88	GHz	11.96	GHz	12.04	GHz	12.12	GHz				
11.76	GHz	11.84	GHz	11.92	GHz	12	GHz	12.08	GHz	12.16	GHz				

BR7a/BR7b Group id. 99929713
C4a Class of station EC | C
C4b Nature of service CR
C11a1 Service area no. 1 | C11a2 Service area
A5/A6 Coordination
A2a Date of bringing into use 31.01.2005 | A2b Period of valid.

9.7 : ADM1, ADM2

10.97	GHz	11.02	GHz				
10.98	GHz	11.05	GHz				

… and for Findings

BR7a/BR7b Group id. 99904833 | BR14 Special Section CR/C/377

C4a Class of station EC | C3a Assigned freq. band 36000

C4b Nature of service CR | C6a Polarization type L | C6b Polarization angle 135 | C8d/C8g Max. pv

C11a1 Service area no. 3 | C11a2 Service area | C11a

A5/A6 Coordination

A2a Date of bringing into use 01.01.2002 | A2b Period of valid. 20 | A3a Op. agency 27 | A3b Adm. resp. A | BR16 Value of type C8b | BR17 F

C2a Assigned frequency

12.287	GHz	12.367	GHz	12.447	GHz	12.527	GHz	12.607	GHz	12.687	GHz
12.327	GHz	12.407	GHz	12.487	GHz	12.567	GHz	12.647	GHz		

A13 Ref. to Special Sections		
1	AR11/A	2105

	C7a Design. of emission	C8a1/C8b1 Max. peak pwr	C8a2/C8b2 Max. pwr dens.	C8c1 Min. peak pwr	C8c2 Min. pwr dens.	C8e C/N ratio
1	18M0G7W--	16.5	-56.1	13.5	-59.1	18
2	36M0G7W--	19.5	-56.1	6.5	-69.1	14.9
3	2M26G7W--	9.5	-54	-3.5	-67	5.7
4	6M49G7W--	9.5	-58.6	-3.5	-71.6	5.7
5	13M0G7W--	11.5	-59.6	-1.5	-74.6	4

C10b1 Assoc. earth station id.	C10b4 Ctry	C10b3 Type	C10b5 Geographical coord.		C10c1a/C10c1b Cls. / Nat.		C10c2 Max. iso. gain	C10c3 Bmwdth	C10c4a Ref. pattern	C10c4b Rad. diag.	C10c5 Noise temp.	Coef A
TYPICAL 0.6M		T			1	TC CR	36.3	2.5	REC-580		150	

Findings | 2D Date | 13A Conformity with RR N------ | 13B1 Provision X/11.31 | 13B2 Remarks | 13B3 Date

13C Remarks

RADIOCOMMUNICATION BUREAU COMMENTS

Relating to the Findings with respect to No. 11.31

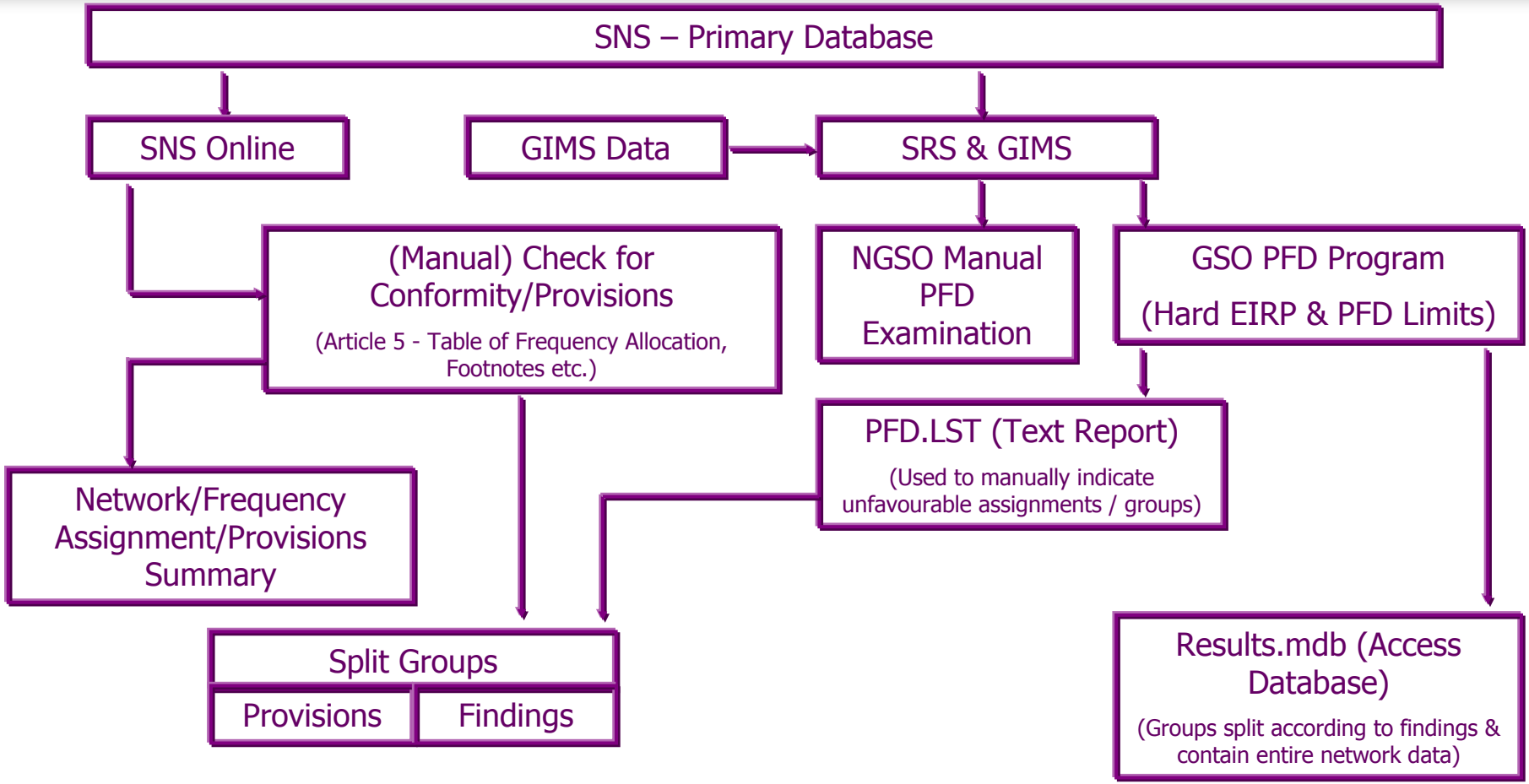
1. Beams NA, REG and REGA, frequency assignments in the 12,2 – 12,75 GHz band, service area No. 3 :

UNFAVOURABLE
Out-of-band (not in accordance with the Table of Frequency Allocations : No allocation to FSS in Region 2).

2. Beam NA, frequency assignment 12,727 GHz, service area No. 3 :

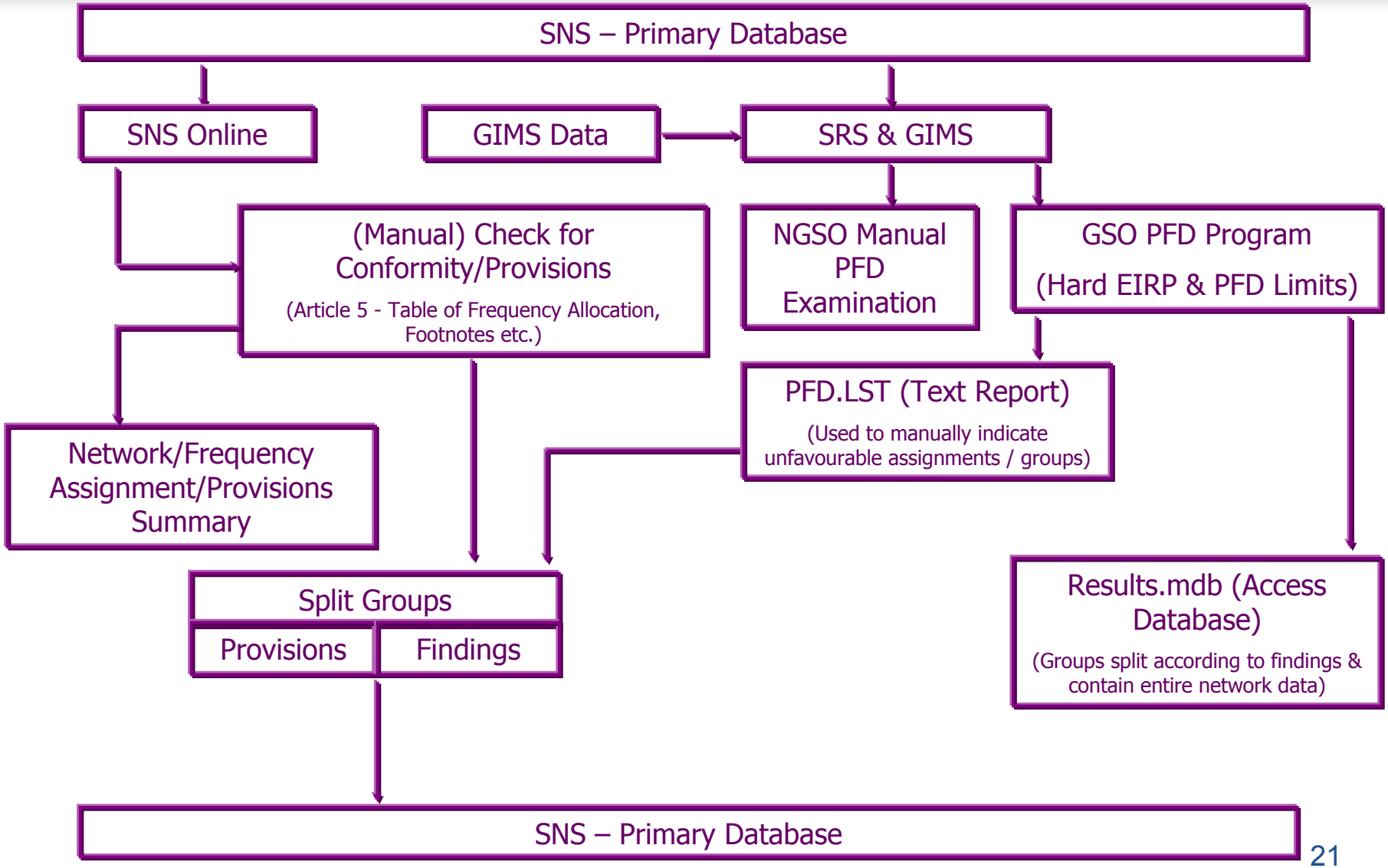
UNFAVOURABLE
Out-of-band (not in accordance with the Table of Frequency Allocations : no allocation to BSS in Region 2).

Then update SNS Database



Update Database

Then update SNS Database



In Summary

No. 9.35 :

Conformity with Table of Frequency Allocation etc.

- Checked for conformity with respect to Table of Frequency Allocation, footnotes, Resolutions & Recommendations
- Identified applicable coordination provisions
- Reviewed PFD results from GIBC
- Split Groups according to provisions & findings
- Entered Unfavourable Findings

Coordination Examination

The second part … in brief

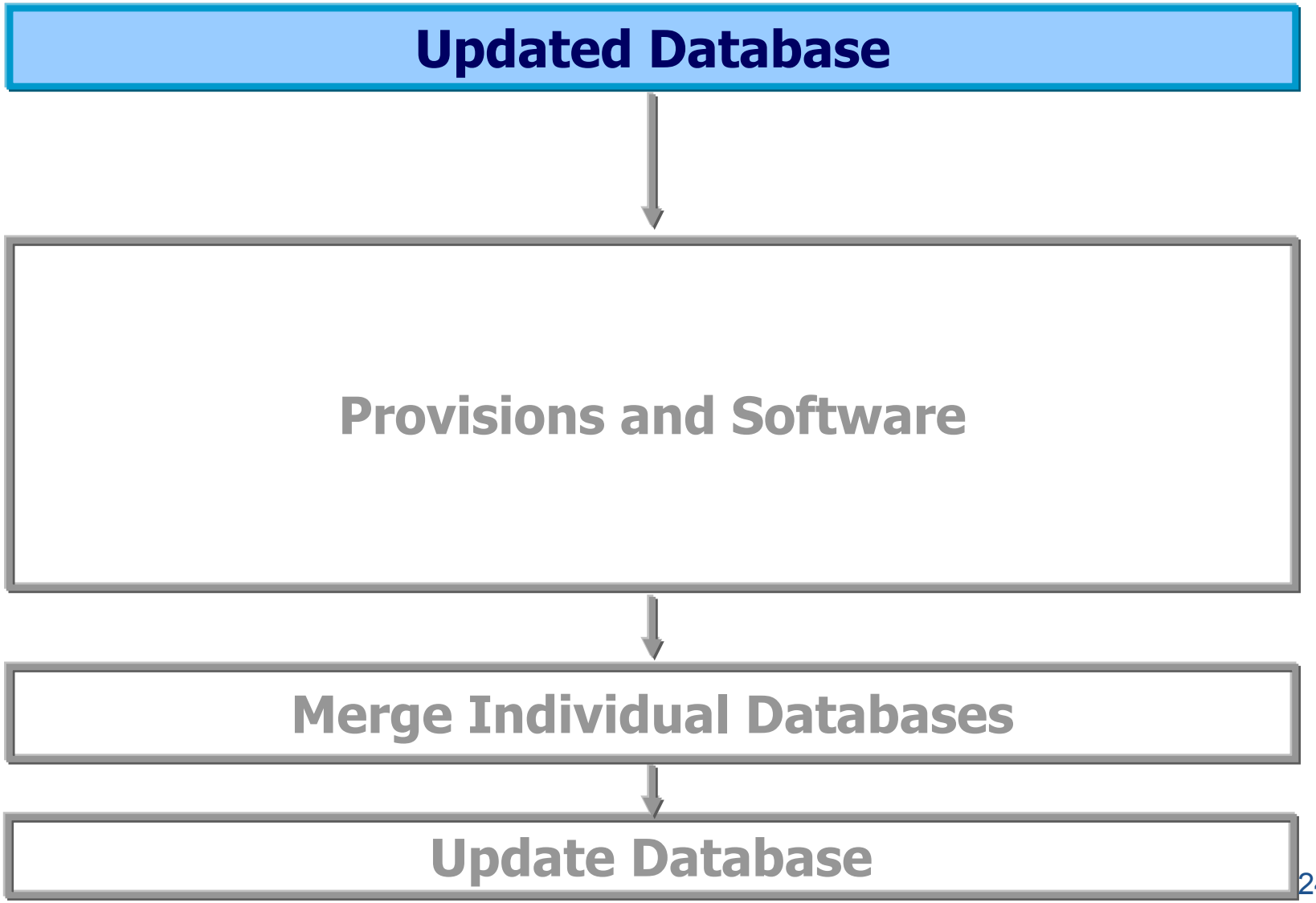
- Select applicable software
- Obtain coordination requirements
- Merge results

No. 9.36:

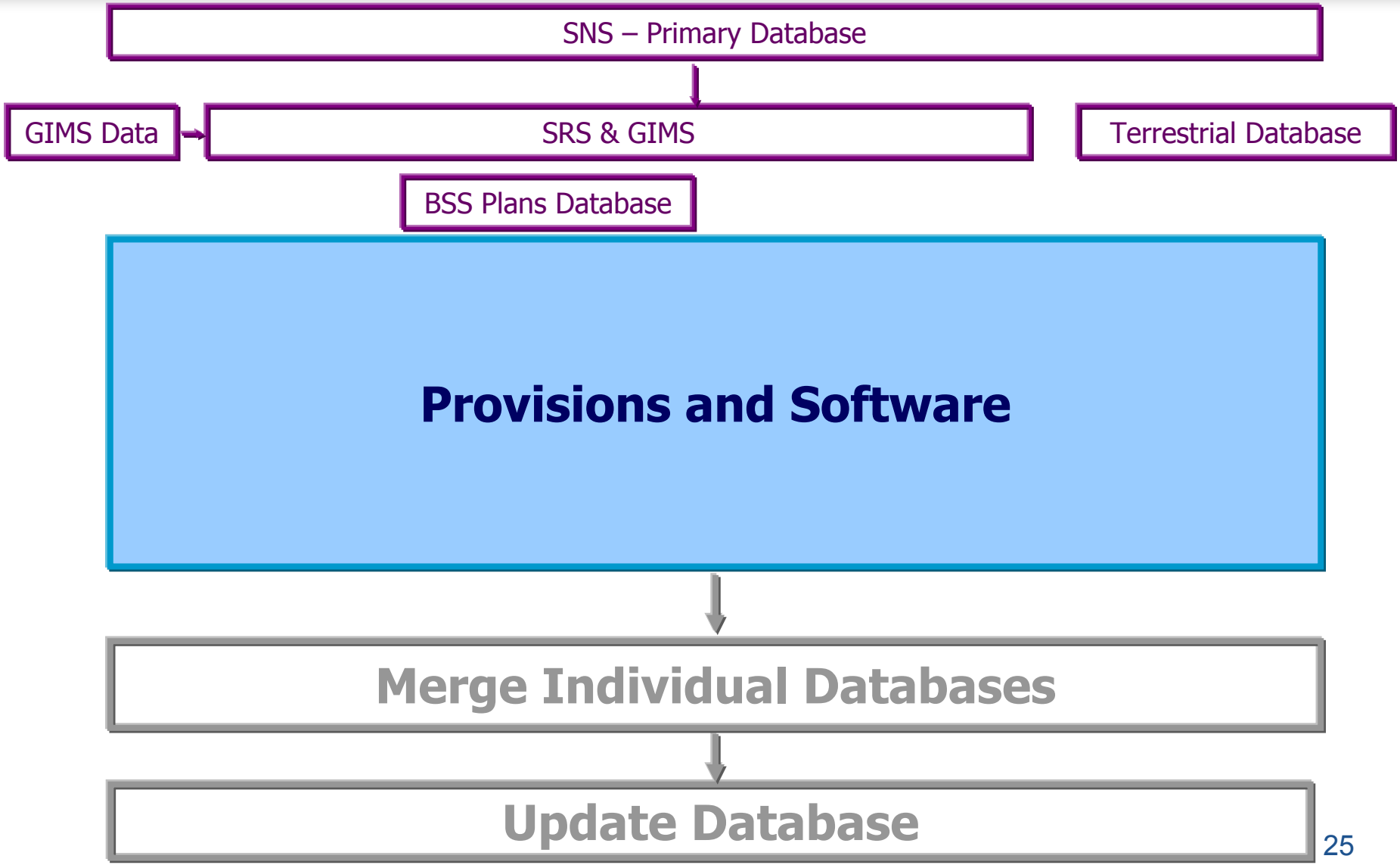
Identify any administration with which coordination may need to be effected

Coordination Examination

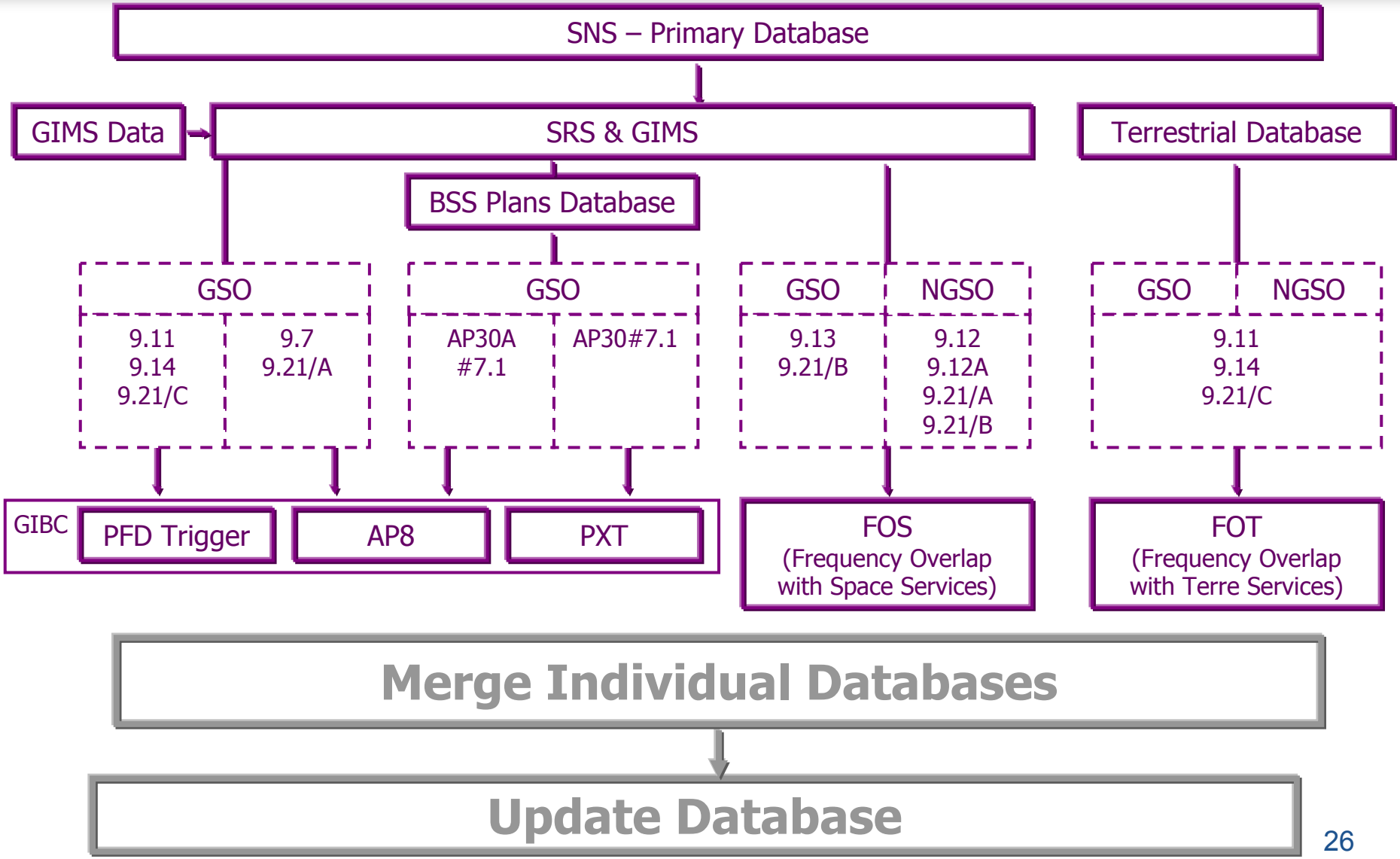
… and now in detail



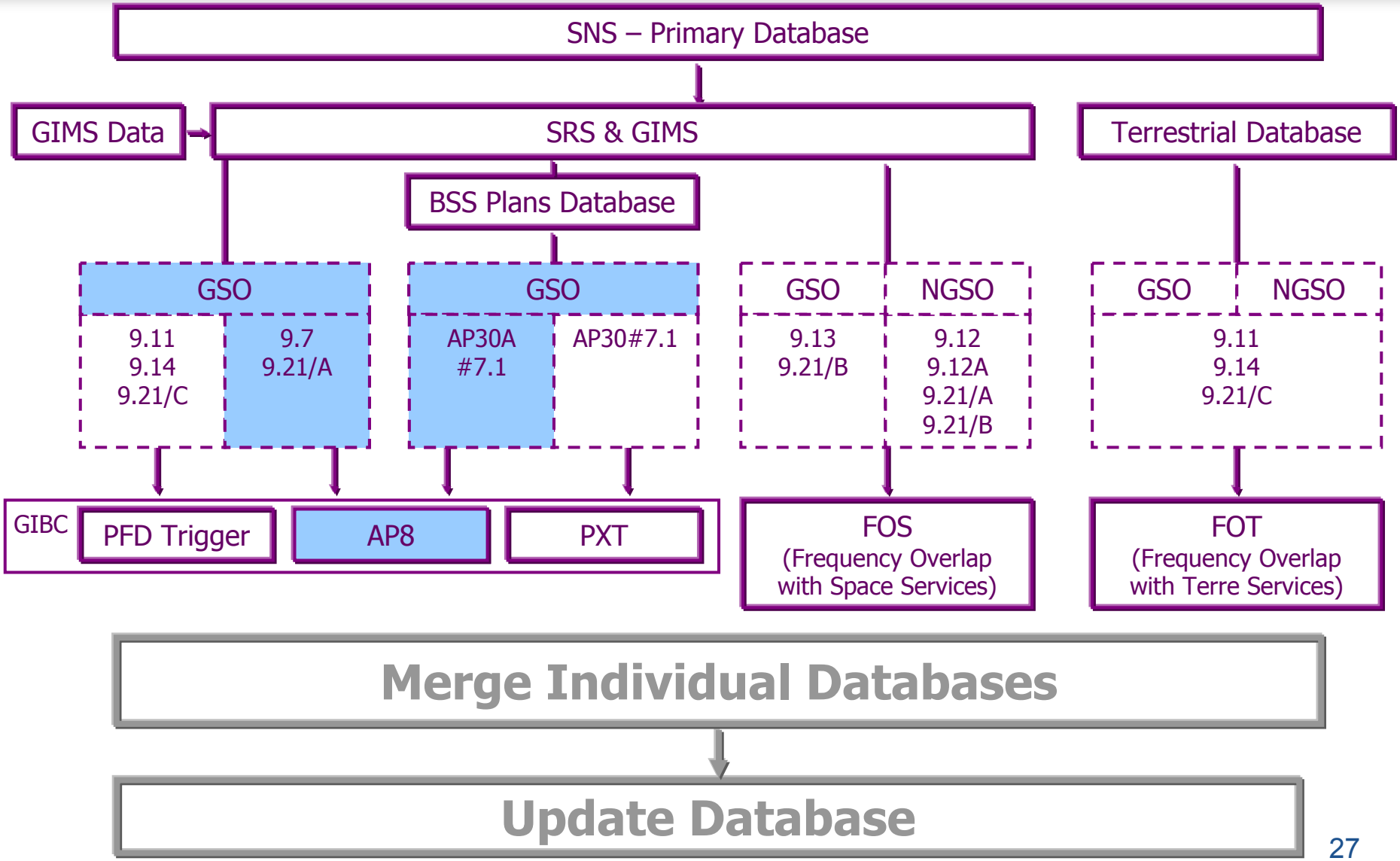
These are the databases used



Run applicable software …
… according to provisions



Run Appendix 8



Run Appendix 8

GIBC – Appendix 8

Enter Network ID

Select Output Level: Level 1 (typical)

1 - Two sample cases per administration

2 - Two sample cases per group

3 - Two sample cases per assignment

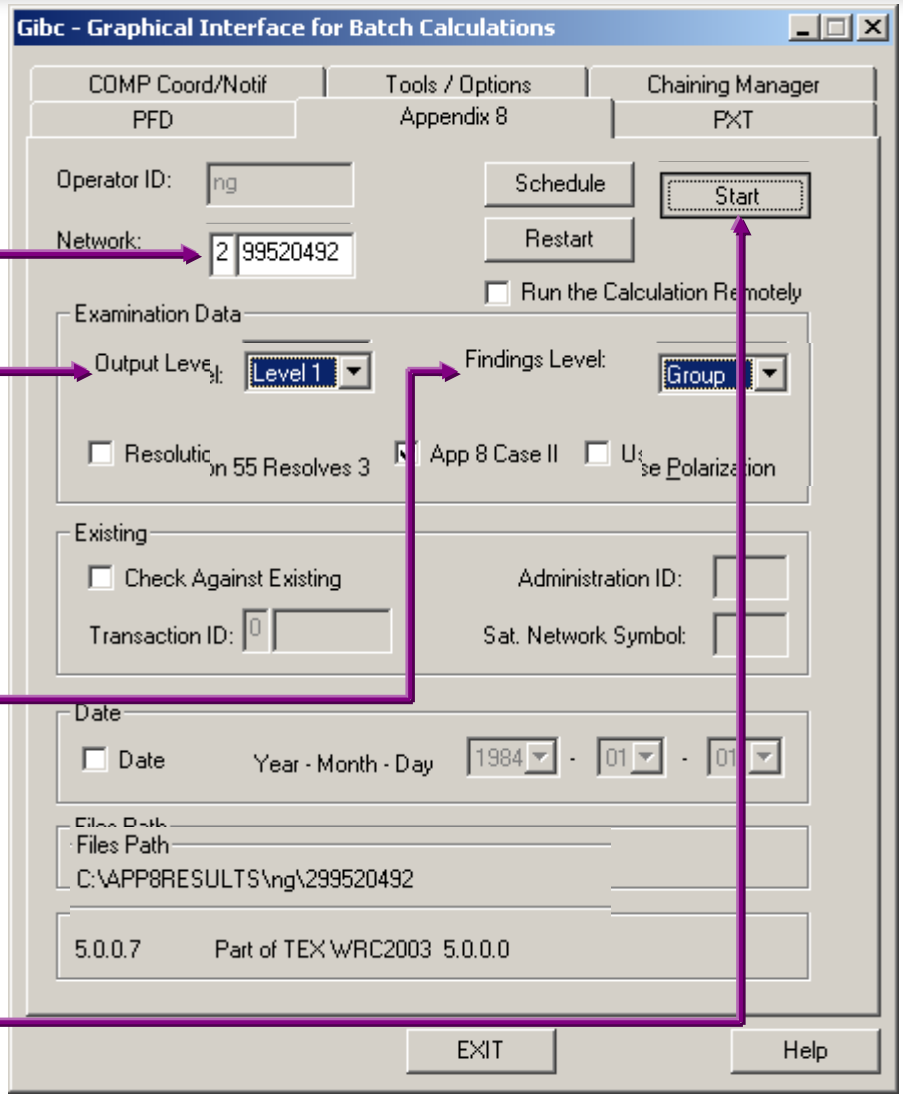
Select Findings Level: Group (typical)

Trans - Identify administrations on transaction level

Group - Identify administrations on group level

Assgn - Identify administrations on assignment level

Click Start



Review Appendix 8 Results

APP8.LST (Text Report)

DT/T > 6%

Incoming network (Network under examination)

Existing network

```
START OF JOB SNSBAP29      26.07.02      17.38.35        VERSION 3.65        299520492 2                    ng1GNN

                    SNS  AP 8 /G /Case II for N-STAR-A (299520492) EXAMINATION REQUESTED BY : ng DATE: 26/07/02 17:38:35
          EXI DOWN-LINK IS AFFECTED                    MANDATORY EXAMINATION                          DT/TE =        9036.41 %
I S J       N-STAR-A              132.00E  0.10 0.10   2512.500 M   15000 K  21.10.99                 C299.520492/299.897806/0001
    SD1  EG CR                   34.0 DB  14.0 DB
      154KG7W--      10.9 DBW  -37.9 DBW/HZ  -40.9 DBW/HZ (TOT. BW)  2D:
E S TON     TONGASAT-DAB-1/130    130.00E  0.10 0.10   2517.500 M   35000 K  21.04.98                A C098.520263/098.822955/0001
    SD1  EC M                    25.0 DB
      16KOG7W--     -30.0 DBW  -71.0 DBW/HZ  -72.0 DBW/HZ (TOT. BW)  2D:21.04.98
E E TON     TYPICAL-10M          159W5208 27S3807  REC-465        46.6 DB  26.2 DB          75 K    DT/TE =        9036.41 %
-------------------------------------------------------------------------------------------------------------------------------
          EXI DOWN-LINK IS AFFECTED                    MANDATORY EXAMINATION                          DT/T  =        3849.65 %
I S J       N-STAR-A              132.00E  0.10 0.10   2512.500 M   15000 K  21.10.99                 C299.520492/299.897806/0001
    SD1  EG CR                   34.0 DB  32.8 DB
      154KG7W--      10.9 DBW  -37.9 DBW/HZ  -40.9 DBW/HZ (TOT. BW)  2D:
E S BLR/IK  INTERSPUTNIK-114.5E   114.50E  0.10 0.10   2517.500 M   35000 K  18.02.98                A C096.520521/096.865157/0001
    G    EG                      19.5 DB
      20KOG1D--       1.0 DBW  -42.0 DBW/HZ  -42.0 DBW/HZ (TOT. BW)  2D:04.12.96
E E BLR     TYPICAL-M            142E5206 35N3213  REC-580        19.5 DB  10.3 DB          400 K    DT/TE =        3936.26 %
            409 K -21.4 DB  TYPICAL-M                                        DT/T D =     3849.65 %    DT/T  =        3849.65 %
            421 K -18.4 DB  TYPICAL-M                                        DT/T D =     3739.92 %    DT/T  =        3739.92 %
-------------------------------------------------------------------------------------------------------------------------------
```

Coordination Arc

```
          SUMMARY FOR TRANSACTION :      C 299.520492          N-STAR-A                J
           9.7      TRIGGER ARC ADM: CHN, G, INS, KOR, LAO, MHL, PHL, PNG, RUS, THA, TON, USA, VTN
GU1  R G299.897805        6 GHZ    :CHN     G       INS     KOR     LAO     PHL     PNG     RUS     THA     TON     USA     VTN
KU1  R G299.897804       14 GHZ    :CHN     G       INS     KOR     LAO     MHL     PHL     PNG     RUS     THA     TON     USA
                                    VTN
```

DT/T

```
          SUMMARY FOR TRANSACTION :      C 299.520492          N-STAR-A                J
           9.7   AP 8 MANDATORY ADM: BLR/IK, CAN, G, IND, TON, UAE
SD1  E G299.897806        2 GHZ    :BLR/IK  CAN     G       IND     TON     UAE
SD2  E G299.897807        2 GHZ    :BLR/IK  CAN     G       IND     TON     UAE
SD3  E G299.897808        2 GHZ    :BLR/IK  CAN     G       IND     TON     UAE
SD4  E G299.897809        2 GHZ    :BLR/IK  CAN     G       IND     TON     UAE
```

9.21/A

```
          SUMMARY FOR TRANSACTION :      C 299.520492          N-STAR-A                J
                     9.21 AP 8 ADM: BLR/IK, CAN, G, IND, TON, UAE
SD1  E G299.897806        2 GHZ    :BLR/IK  CAN     G       IND     TON     UAE
SD2  E G299.897807        2 GHZ    :BLR/IK  CAN     G       IND     TON     UAE
SD3  E G299.897808        2 GHZ    :BLR/IK  CAN     G       IND     TON     UAE
SD4  E G299.897809        2 GHZ    :BLR/IK  CAN     G       IND     TON     UAE
```

RS33#3

```
          SUMMARY FOR TRANSACTION :      C 299.520492          N-STAR-A                J
            RS33 ARC            ADM: (NOT APPLICABLE)
          SUMMARY FOR TRANSACTION :      C 299.520492          N-STAR-A                J
            RS33 AP 8 MANDATORY ADM: (NOT APPLICABLE)
```

AP30A#7.1

```
          SUMMARY FOR TRANSACTION :      C 299.520492          N-STAR-A                J
                   AP30A 7.1 CASE I: (NOT APPLICABLE)
          SUMMARY FOR TRANSACTION :      C 299.520492          N-STAR-A                J
                  AP30A 7.1 CASE II: (NOT APPLICABLE)
```

Review Appendix 8 Results

CA

```
          SUMMARY FOR TRANSACTION :      C 299.520492          N-STAR-A
           9.7      TRIGGER ARC ADM: CHN, G, INS, KOR, LAO, MHL, PHL, PNG, RUS, THA,
 GU1   R G299.897805        6 GHZ    :CHN     G       INS     KOR     LAO     PHL     P
USA      VTN
 KU1   R G299.897804       14 GHZ    :CHN     G       INS     KOR     LAO     MHL     P
TON      USA
                                     VTN
```

DT/T

```
          SUMMARY FOR TRANSACTION :      C 299.520492          N-STAR-A
           9.7   AP 8 MANDATORY ADM: BLR/IK, CAN, G, IND, TON, UAE
 SD1   E G299.897806        2 GHZ    :BLR/IK  CAN     G       IND     TON     UAE
 SD2   E G299.897807        2 GHZ    :BLR/IK  CAN     G       IND     TON     UAE
 SD3   E G299.897808        2 GHZ    :BLR/IK  CAN     G       IND     TON     UAE
 SD4   E G299.897809        2 GHZ    :BLR/IK  CAN     G       IND     TON     UAE
```

9.21/A

```
          SUMMARY FOR TRANSACTION :      C 299.520492          N-STAR-A
                       9.21 AP 8 ADM: BLR/IK, CAN, G, IND, TON, UAE
 SD1   E G299.897806        2 GHZ    :BLR/IK  CAN     G       IND     TON     UAE
 SD2   E G299.897807        2 GHZ    :BLR/IK  CAN     G       IND     TON     UAE
 SD3   E G299.897808        2 GHZ    :BLR/IK  CAN     G       IND     TON     UAE
 SD4   E G299.897809        2 GHZ    :BLR/IK  CAN     G       IND     TON     UAE
```

RS33#3

```
          SUMMARY FOR TRANSACTION :      C 299.520492          N-STAR-A
            RS33 ARC             ADM: (NOT APPLICABLE)
          SUMMARY FOR TRANSACTION :      C 299.520492          N-STAR-A
            RS33 AP 8 MANDATORY ADM: (NOT APPLICABLE)
```

AP30A#7.1

```
          SUMMARY FOR TRANSACTION :      C 299.520492          N-STAR-A
                    AP30A 7.1 CASE I: (NOT APPLICABLE)
          SUMMARY FOR TRANSACTION :      C 299.520492          N-STAR-A
                   AP30A 7.1 CASE II: (NOT APPLICABLE)
```

PROGRAM SNSBAP29 TERMINATED OK

Review Appendix 8 Results

NTW.LST (Text Report)

Liste des réseaux à satellite pour lesquels Delta T/T > 6% ou situés à l'intérieur de l'arc de coordination
List of Satellite Networks for which Delta T/T > 6 % or which are within coordination arc
Lista de redes de satélite para las que Delta T/T > 6% o que están dentro del arco de coordinación

(Art. S9, No. S9.36.2)

Admin	Réseau Network Red	Position Position Posición	A/T [1]	N/C [2]	Numéro ID ID Number Número ID	C [3]	R [4]	A [5]
BLR/IK	INTERBELAR-1	59.50E	A	C	094.520119		R	
	INTERBELAR-2	75.00E	A	C	094.520120		R	
	INTERSPUTNIK-114.5E	114.50E	A	C	096.520521	C	R	
	INTERSPUTNIK-153.5E	153.50E	A	C	096.520122	C	R	
	INTERSPUTNIK-16W	16.00W	A	C	096.520524		R	
	INTERSPUTNIK-17E	17.00E	A	C	096.520120		R	
	INTERSPUTNIK-27E	27.00E	A	C	096.520121		R	
	INTERSPUTNIK-3W	3.00W	A	C	096.520522		R	
	INTERSPUTNIK-64.5E	64.50E	A	C	096.520519		R	
	INTERSPUTNIK-67.5E	67.50E	A	C	096.520520		R	
	INTERSPUTNIK-6W	6.00W	A	C	096.520523		R	
CAN	CANSAT-M3	106.50W	A	C	096.520424		R	
CHN	APSTAR-1	131.00E	A	C	094.520112			A
	APSTAR-2	134.00E	A	C	094.520214			A
	ASIASAT-A	122.00E	A	C	090.500035			A
	ASIASAT-A	122.00E	A	N	098.500161			A
	ASIASAT-AK	122.00E	A	C	091.998017			A
	ASIASAT-AK	122.00E	T	N	099.500194			A
	ASIASAT-AKX	122.00E	A	C	095.520254			A
	CHINASAT-24	127.50E	A	C	095.520226			A
	CHINASAT-32	140.00E	A	C	095.520152			A
	CHINASAT-35A	136.50E	T	C	099.520522			A
	CHINASAT-35B	140.40E	T	C	099.520521			A
	CHINASAT-4	130.00E	A	C	093.520030			A
	DFH-3A-OD	130.00E	A	C	097.520022			A
	DFH-3-OA	125.00E	A	C	090.500009			A
	DFH-4-OA	125.00E	A	C	097.520046			A
	DFH-4-OC	135.50E	A	C	097.520048			A
	STW-1	125.00E	A	N	090.500007			A

A = Recorded in MIFR / Already published
T = Under examination

N = Notification / C = Coordination

C = Network causing interference

R = Network receiving interference

A = Coordination Arc

Review Appendix 8 Results

BatchResults.mdb (Access Database)

Provn Table

grp_id	coord_prov	agree_st	seq_no	adm	ntwk_org
299897805	9.7	A	1	CHN	
299897805	9.7	A	2	G	
299897805	9.7	A	3	INS	
299897805	9.7	A	11	USA	
299897805	9.7	A	12	VTN	

coord_prov	agree_st
9.7	A
9.7	T

link_epm
pl_strap
provn
pub_ssn
pwr_ctrl
res49_sel
satsys
sat_oper
sat_sys_provn
ngma
nbn_geo

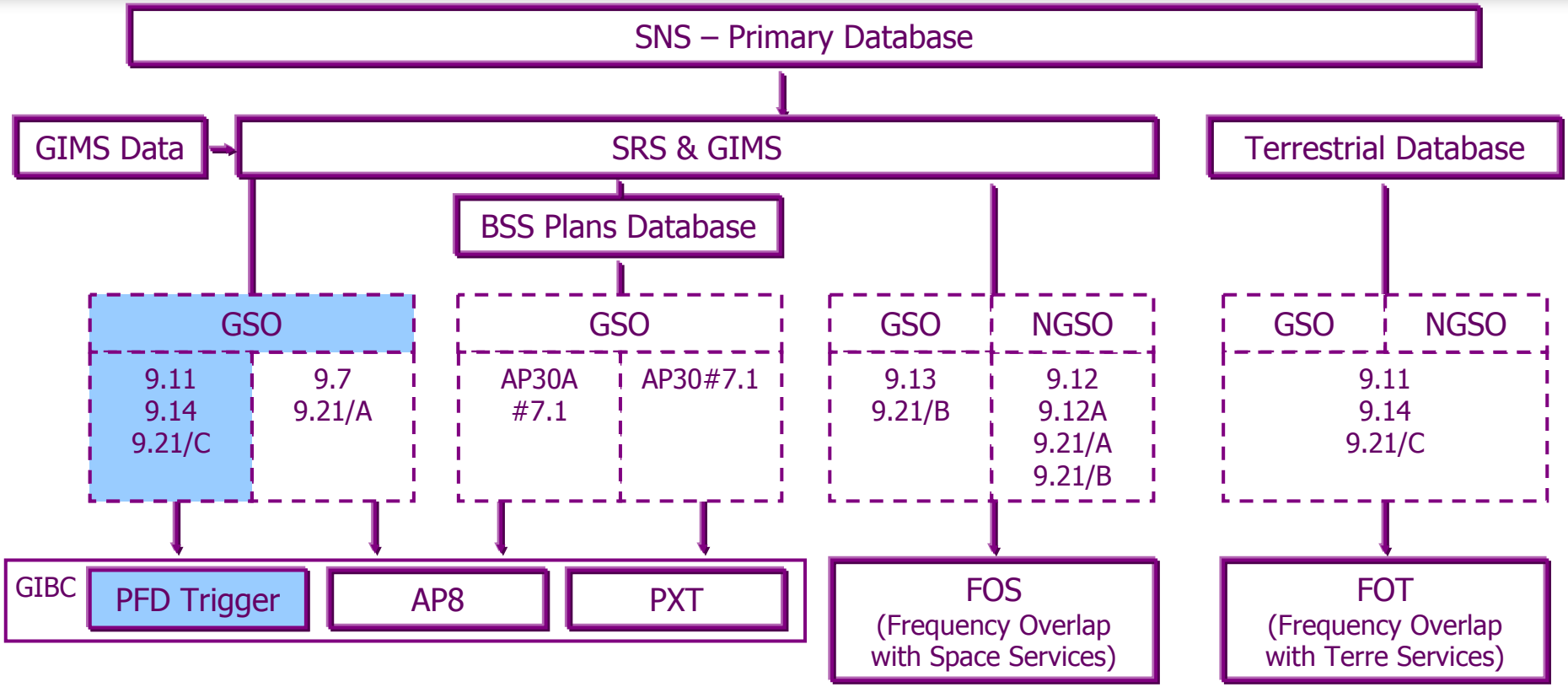
Tr_aff_ntw Table

ntc_id	coord_prov	agree_st	aff_ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn
299520492	9.7	A	96520154	LAO		L-STAR-4	126	C
299520492	9.7	A	95520226	CHN		CHINASAT-24	127.5	C
299520492	9.7	A	98520412	KOR		KOREASAT-12	123.7	C

ntc_id	coord_prov	agree_st	aff_ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn	st_
299520492	9.7	B	98520265	TON		TONGASAT-DA	170.75	C	50
299520492	9.7	B	94520164	ND		INSAT-2M (74)	74	C	50
299520492	9.7	B	98520263	TON		TONGASAT-DA	130	C	50
299520492	9.7	B	94520166	ND		INSAT-2M (93.5	93.5	C	50
299520492	9.7	B	94520162	ND		INSAT-2M (48)	48	C	50
299520492	9.7	B	94520165	ND		INSAT-2M (83)	83	C	50
299520492	9.7	A	95520172	INS		PALAPA PACIF	135.5	C	50
299520492	9.7	A	96520001	INS		PALAPA-B5	139.5	C	50
299520492	9.7	A	95520055	MHL		ORION-AP-1	139	C	50
299520492	9.7	A	92520023	THA		THAICOM-A4	142	C	50
299520492	9.7	A	95520170	INS		PALAPA PAC-2	139	C	50
299520492	9.7	A	96520002	INS		PALAPA-B6	137	C	50

Record: 1 of 122

Run PFD Trigger



Merge Individual Databases

Update Database

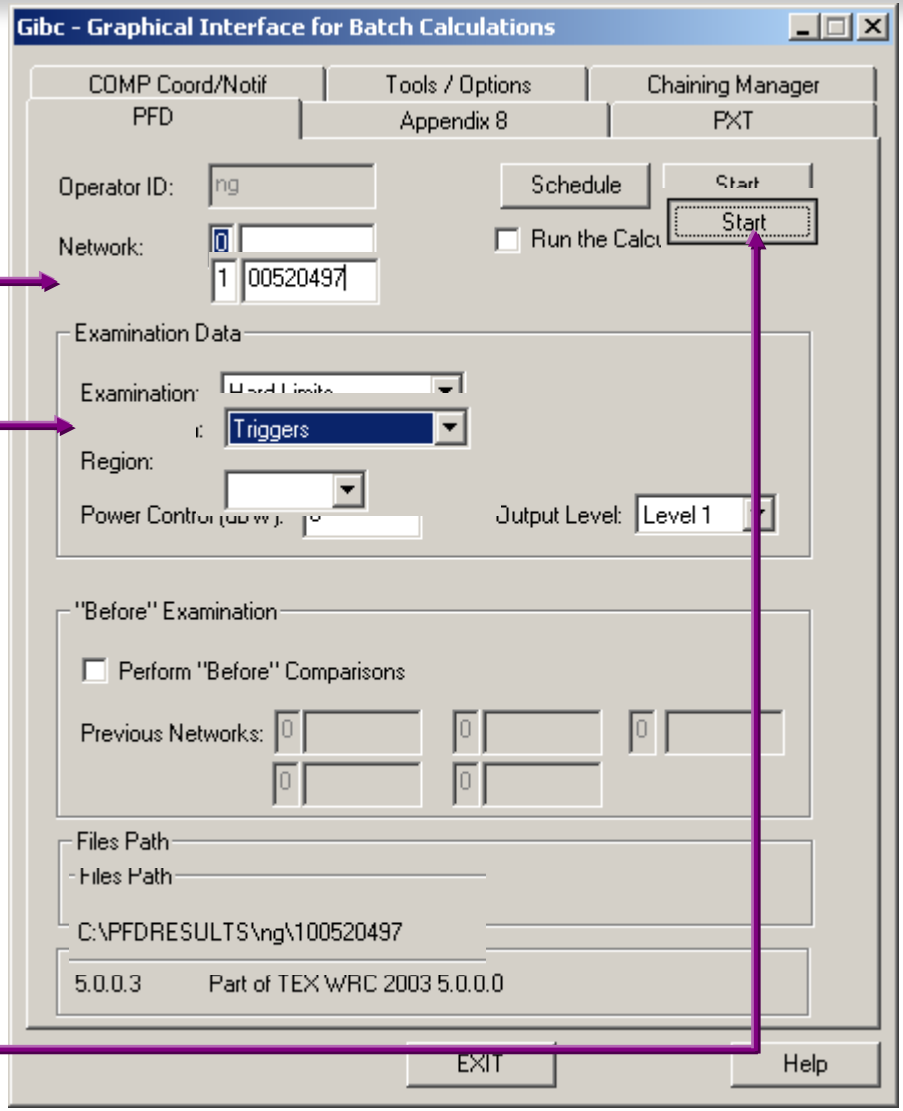
Run PFD Trigger

GIBC – PFD Trigger

Enter Network ID

Select Examination Type: Triggers

Click Start



Review PFD Trigger Results

PFD.LST (Text Report)

Beam

Group ID

```
START OF JOB SNSBPFD      09.10.02      17.51.01      VERSION 4.14      100520497  T      ng      01N
SPACE STATION PFD VALUES WILL BE CHECKED AGAINST COORDINATION LIMITS ONLY

          SNS      TRIGGER LIMITS for HYUNDAI-AL (100520497) EXAMINATION REQUESTED BY : ng DATE: 09/10/02 17:51:01
KOR       HYUNDAI-AL          120.00E  0.10 0.10                    06.09.00                                C 100.[illegible]20497
D1R                 42.3 DB   POINTING ACC 0.05 DEG                          100.520497
EC EU                5000 KHZ    06.09.00                                  AR11/A  2379                    100.637555
1527.50000 M         5000 KHZ  40K0G7W--   5.1 DBW  -40.2 DBW/HZ                                    A-        0001
(15) RR 5.334                MOBILE-SATELLITE                                                   REF. BW   0.004 MHz
REGIONS 1 AND 3                                    045E34 28N24 ARS      42.3 -125.2   26.8 -152.0   N-
AFG      21.3  ARM      26.8  ARS      26.8  AUS      20.4  AUS/CHR 18.0  AUS/HMD 21.5  AUS/ICO 17.9
AUS/NFK  17.4  AZE      26.8  BGD      17.7  BHR      24.6  BRM     17.9  BRU     18.0  BTN     17.7
CBG      18.0  CHN      18.0  CHN/HKG  17.9  CHN/MAC  17.9  CLN     17.7  COM     26.8  DJI     26.8
ERI      26.8  ETH      26.8  F  /AMS  17.4  F  /CRO  26.7  F  /KER  21.8  F  /MYT  26.2  F  /NCL  17.6
F  /REU  25.3  F  /WAL  21.0  FJI      20.6  FSM      18.0  G  /DGA  17.5  GEO     26.8  IND     17.9
INS      18.1  IRN      26.8  IRQ      26.8  J        17.9  KAZ     26.8  KEN     26.8  KGZ     19.3
KIR      26.8  KIR/PHX  23.4  KRE      17.7  KWT      26.5  LAO     18.0  MAU     21.0  MAU/ROD 18.1
MDG      26.8  MHL      17.6  MLA      18.0  MLD      17.5  MNG     17.6  MOZ     26.8  NPL     17.6
NRU      17.5  NZL/CKH  26.8  NZL/NIU  24.3  NZL      24.5  NZL/TKL 26.8  OMA     23.4  PAK     20.5
PHL      18.0  PLW      18.0  PNG      17.9  QAT      24.4  RUS     26.8  SEY     25.6  SLM     17.7
SMO      23.2  SNG      18.0  SOM      26.8  SYR      26.8  THA     18.0  TJK     19.8  TKM     25.4
TMP      18.0  TON      22.4  TUR      26.8  TUV      18.5  TZA     26.8  UAE     24.2  USA/GUM 17.8
USA/HWL  20.5  USA/JAR  26.8  USA/MRA  17.8  USA/PLM  26.8  USA/SMA 24.3  USA/WAK 17.5  UZB     24.7
VTN      18.0  VUT      17.5  YEM      26.8
```

A- Finding

PFD Limit

Frequency Assignment

Countries over which coordination limits
are exceeded and the corresponding excess values

Review PFD Trigger Results

BatchResults.mdb (Access Database)

provn : Table

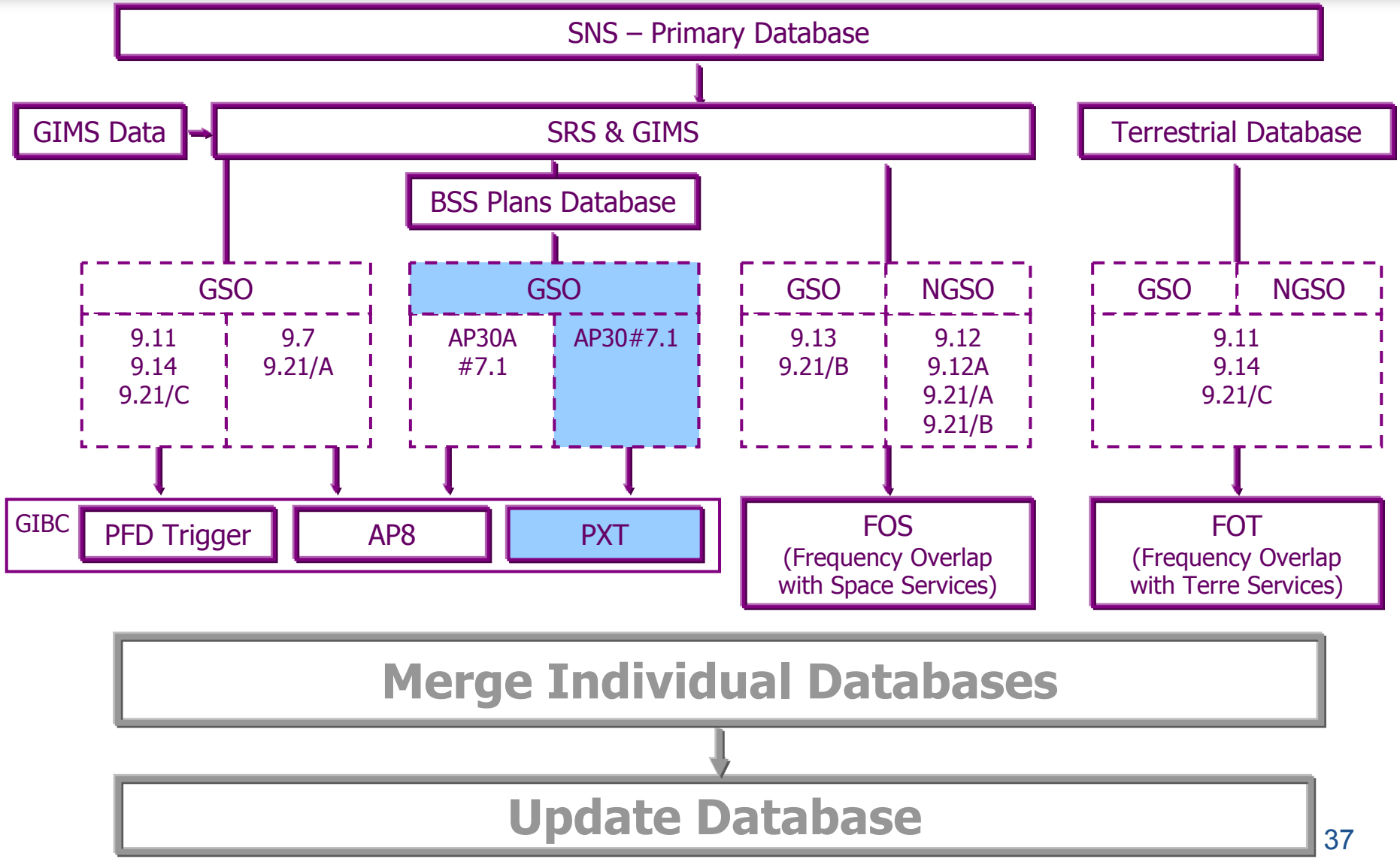
grp_id	coord_prov	agree_st	seq_no	coord_st	adm	ntwk_org	ctry
100637555	9.14	P	1		AFG		
100637555	9.14	P	2		ARM		
100637555	9.14	P	3		ARS		
100637555	9.14	P	4		AUS		
100637555	9.14	P	5		AUS		CHR
100637555	9.14	P	6		AUS		HMD
100637555	9.14	P	7		AUS		ICO
100637555	9.14	P	8		AUS		NFK
100637555	9.14	P	9		AZE		
100637555	9.14	P	10		BGD		
100637555	9.14	P	11		BHR		
100637555	9.14	P	12		BRM		
100637555	9.14	P	13		BRU		
100637555	9.14	P	14		BTN		
100637555	9.14	P	15		CBG		
100637555	9.14	P	16		CHN		
100637555	9.14	P	17		CHN		HKG
100637555	9.14	P	18		CHN		MAC
100637555	9.14	P	19		CLN		
100637555	9.14	P	20		COM		
100637555	9.14	P	21		DJI		
100637555	9.14	P	22		ERI		
100637555	9.14	P	23		ETH		
100637555	9.14	P	24		F		AMS
100637555	9.14	P	25		F		CRO
100637555	9.14	P	26		F		KER
100637555	9.14	P	27		F		MYT
100637555	9.14	P	28		F		NCL
100637555	9.14	P	29		F		REU
100637555	9.14	P	30		F		WAL

Record: 1 of 94

coord_prov	agree_st
9.14	P

Provn Table

Run PXT

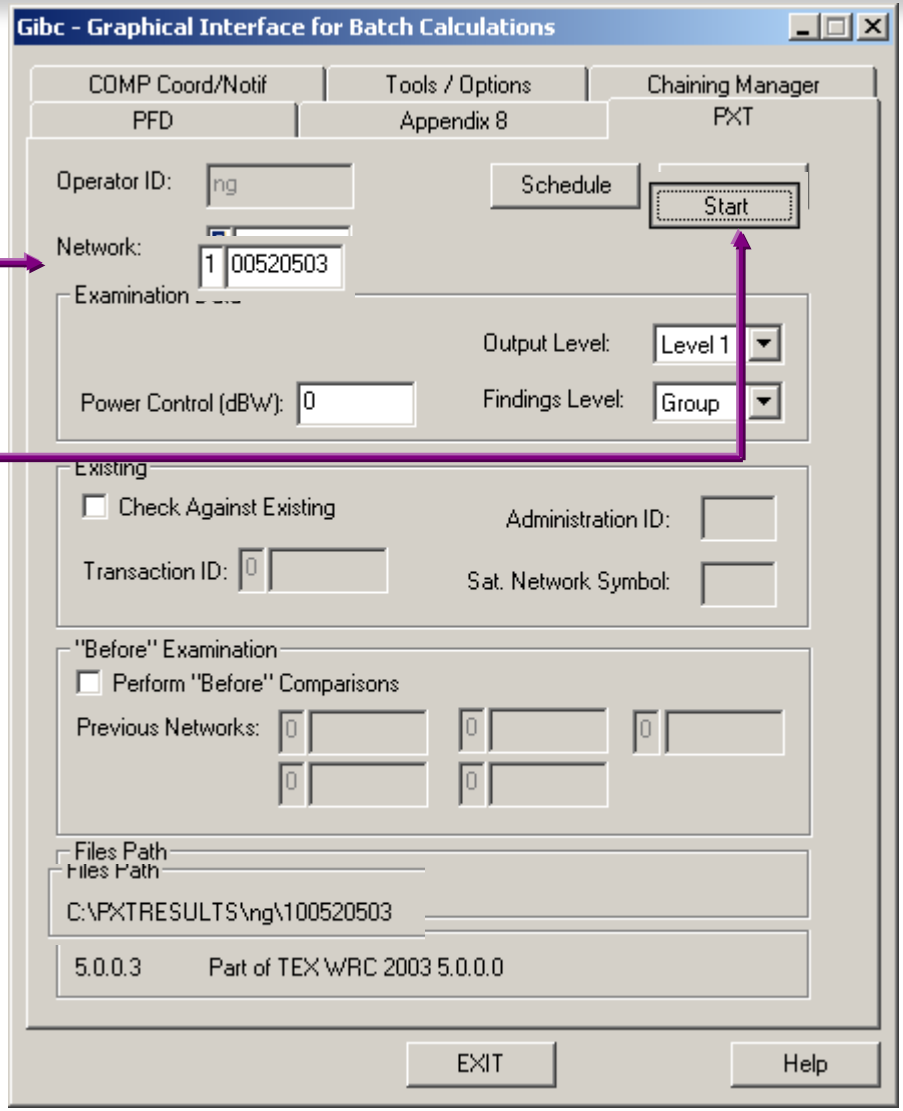

SNS – Primary Database
GIMS Data
SRS & GIMS
Terrestrial Database
BSS Plans Database
GSO
9.11
9.14
9.21/C
9.7
9.21/A
GSO
AP30A
#7.1
AP30#7.1
GSO
9.13
9.21/B
NGSO
9.12
9.12A
9.21/A
9.21/B
GSO
9.11
9.14
9.21/C
NGSO
GIBC
PFD Trigger
AP8
PXT
FOS
(Frequency Overlap
with Space Services)
FOT
(Frequency Overlap
with Terre Services)
Merge Individual Databases
Update Database

Run PXT

GIBC – PXT

Enter Network ID

Click Start



Review PXT Results

PXT.LST (Text Report)

```
START OF JOB SNSBPXT      29.10.02      10.43.41        VERSION 2.27      RES 533 RESOLVES 5

         100520503R1      ng1G                      0
         100520503        ng1G                      0 CORRECTED

                  SNS   PXT (AP30#7.1) for HYUNDAI-AU (100520503) ANALYSIS REQUESTED BY : ng DATE: 29/10/02 10:43:41
          EXT DOWN-LINK IS AFFECTED
 I S KOR     HYUNDAI-AU            120.00E  0.10 0.10   12.23100 G   54000 K  06.09.00                C100.520503/100.637419/0001
     D2R  EC M                   37.5 DB
       31M3G7F--   20.5 DBW  -53.2 DBW/HZ                                                  2D:
 E S RUS     RUS-4                 110.00E  0.10 0.10   12.22616 G   27000 K  02.06.00                A B100.550171/000.003518/0002
     E001 EB CL  R13TSS          35.1 DB
       27M0G7W--   23.7 DBW  -50.5 DBW/HZ  -50.5 DBW/HZ (5 MHZ)    -50.5 DBW/HZ (27 MHZ)  2D:02.06.00
 E E RUS     TESTPOINT 1          130E3712 42N2512  MODRES         35.5 DB
                AP30 AN4              FIXED-SATELLITE
                REGIONS 1 AND 2                                  130E37 42N25 RUS                 33.5 -108.5   4.5 -113.1
-------------------------------------------------------------------------------------------------------------------------------
         SUMMARY FOR TRANSACTION :      C 100.520503          HYUNDAI-AU                KOR
AP30 7.1   (ANNEX 4)          ADMINISTRATIONS RECEIVING INTERFERENCE:
                   CONCERNED ADM:   RUS
D1TC E G100.637403       12 GHZ    :
D2R  E G100.637418       12 GHZ    :
D2R  E G100.637419       12 GHZ    :RUS
D2R  E G100.637420       12 GHZ    :RUS
D2TC E G100.637404       12 GHZ    :
```

Incoming network (Network under examination)

Existing BSS network

PFD

Excess

PFD Limit

AP30#7.1*

*Requires BSS Plans database

Review PXT Results

NTW.LST (Text Report)

Liste des faisceaux ou des réseaux à satellite identifiés par le Bureau
List of beams or satellite networks identified by the Bureau
Lista de los haces o de las redes de satélite identificadas por la Oficina

(Art. S9, No. S9.36.2)

Admin	Réseau Network Red	Position Position Posición	A/T [1]	N/C [2]	Numéro ID ID Number Número ID	C [3]	R [4]
RUS	RUS-4	110.00E	A	B	100.550171		R

1.	A =	Reseau inscrit dans le Fichier de reference international des frequences ou pour lequel la demande de coordination a ete publiee / Network in MIFR or for which coordination request has been published / Red del Registro o aquélla para la que se ha publicado la petición de coordinación
	T =	Reseau en cours d'examen / Network under examination / Red en examen
2.	N =	Reseau au stade de la notification / Network in notification stage / Red en etapa de notificacion
	C =	Reseau au stade de la coordination / Network in coordination stage / Red en etapa de coordinacion
3.	C =	Reseau causant des brouillages a HYUNDAI-AU / Network causes interference to HYUNDAI-AU / Red que causa interferencia a HYUNDAI-AU
4.	R =	Reseau auquel des brouillages sont causes par HYUNDAI-AU / Network receives interference from HYUNDAI-AU / Red que recibe interferencia de HYUNDAI-AU

Review PXT Results

BatchResults.mdb (Access Database)

Provn Table

provn : Table

grp_id	coord_prov	agree_st	seq_no	adm	ntwk_org
100637403	A30#7.1	Q	1		
100637404	A30#7.1	Q	1		
100637418	A30#7.1	Q	1		
100637419	A30#7.1	Q	1	RUS	
100637420	A30#7.1	Q	1	RUS	

Record: 1 of 5

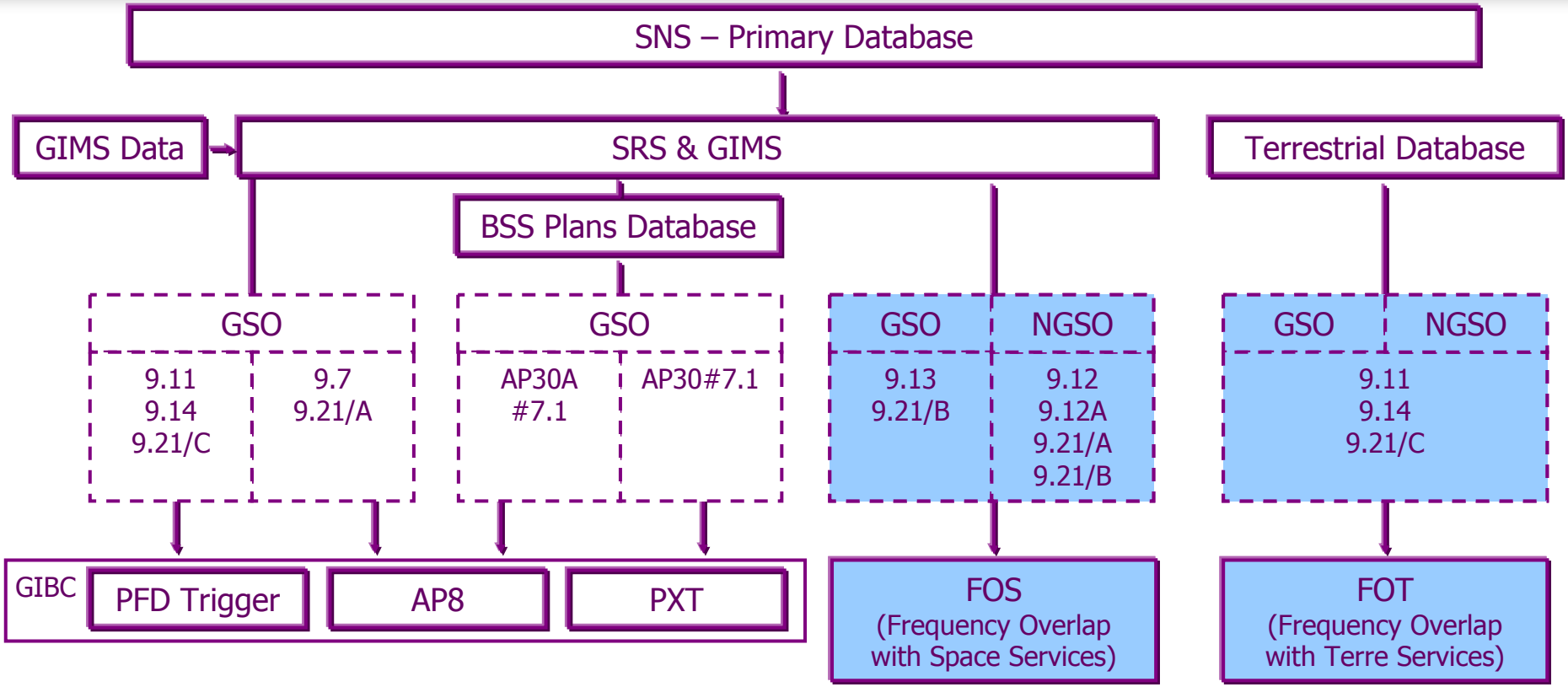
Tr_aff_ntw Table

tr_aff_ntw : Table

ntc_id	coord_prov	agree_st	aff_ntc_id	adm	ntwk_org	sat_name	long_nom	ntf_rsn
100520503	A30#7.1	Q	100550171	RUS		RUS-4	110	B

Record: 1 of 1

Run FOS & FOT



Merge Individual Databases

Update Database

Review FOS & FOT Results

provn : Table

grp_id	coord_prov	agree_st	seq_no	adm	ntwk_org
300604394	9.13	F	1	D	
				MLA	
				MLA	
300604396	9.13	F	2	MLA	
300604397	9.13	F	1	D	
300604397	9.13	F	2	MLA	
300604398	9.13	F	1	D	
300604398	9.13	F	2	MLA	
300604399	9.13	F	1	D	
300604399	9.13	F	2	MLA	
300604400	9.13	F	1	D	
300604400	9.13	F	2	MLA	
300604401	9.13	F	1	D	
300604401	9.13	F	2	MLA	

coord_prov	agree_st
9.13	F

Record: 1 of 279

Provn Table (FOS)

provn : Table

grp_id	coord_prov	agree_st	seq_no	adm	ntwk_org	ctry
101612051	9.21/C	F	1	AFS		
				HR		
				OD		
				NK		
				ST		
				IN		
101612051	9.21/C	F	9	G		AFS
101612051	9.21/C	F	10	G		MLA
99915661	9.14	F	1	AUT		
99915661	9.14	F	2	BEL		
99915661	9.14	F	3	BIH		
99915661	9.14	F	4	CHN		HKG
99915661	9.14	F	5	CHN		
99915661	9.14	F	6	CLN		
99915661	9.14	F	7	ERI		
99915661	9.14	F	8	GRC		

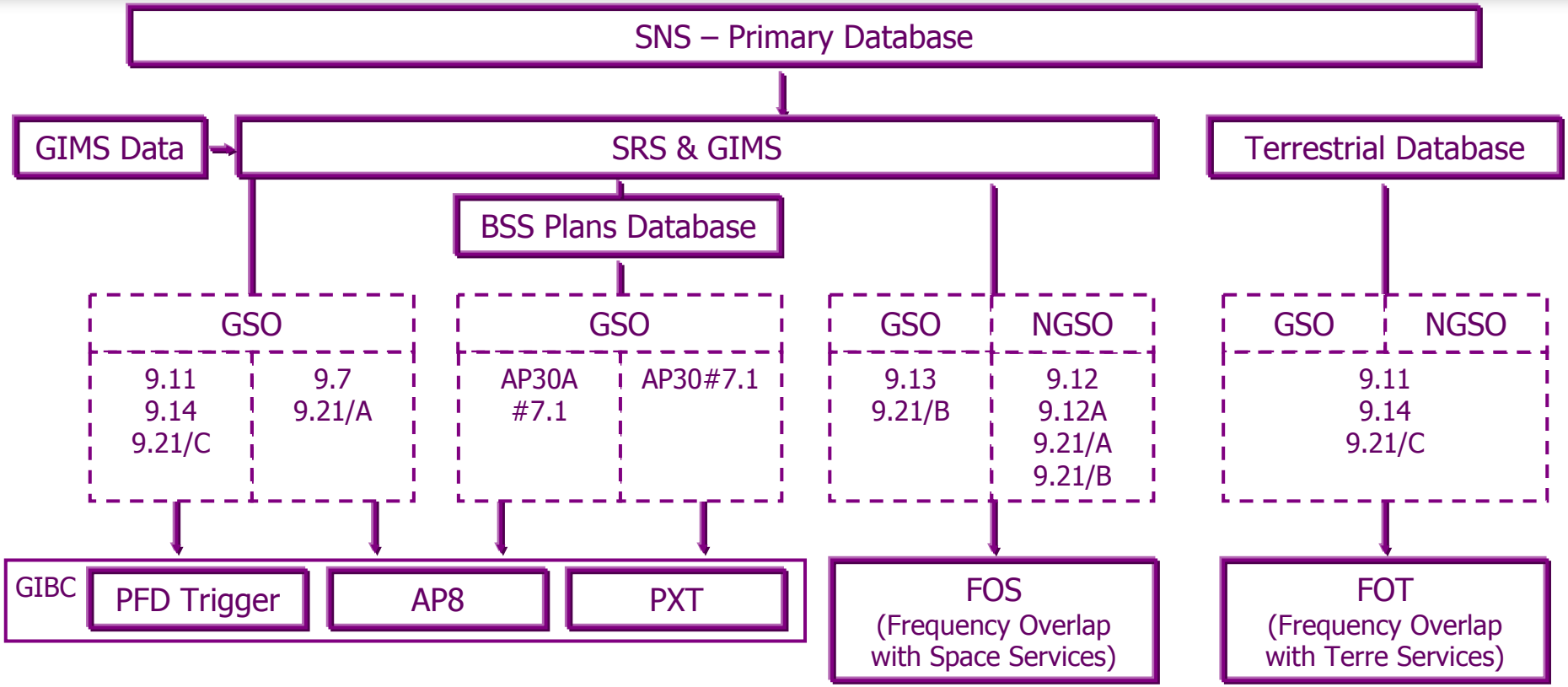
coord_prov	agree_st
9.14	F
9.21/C	F

Record: 1 of 18

New with Version 5

Provn Table (FOT)

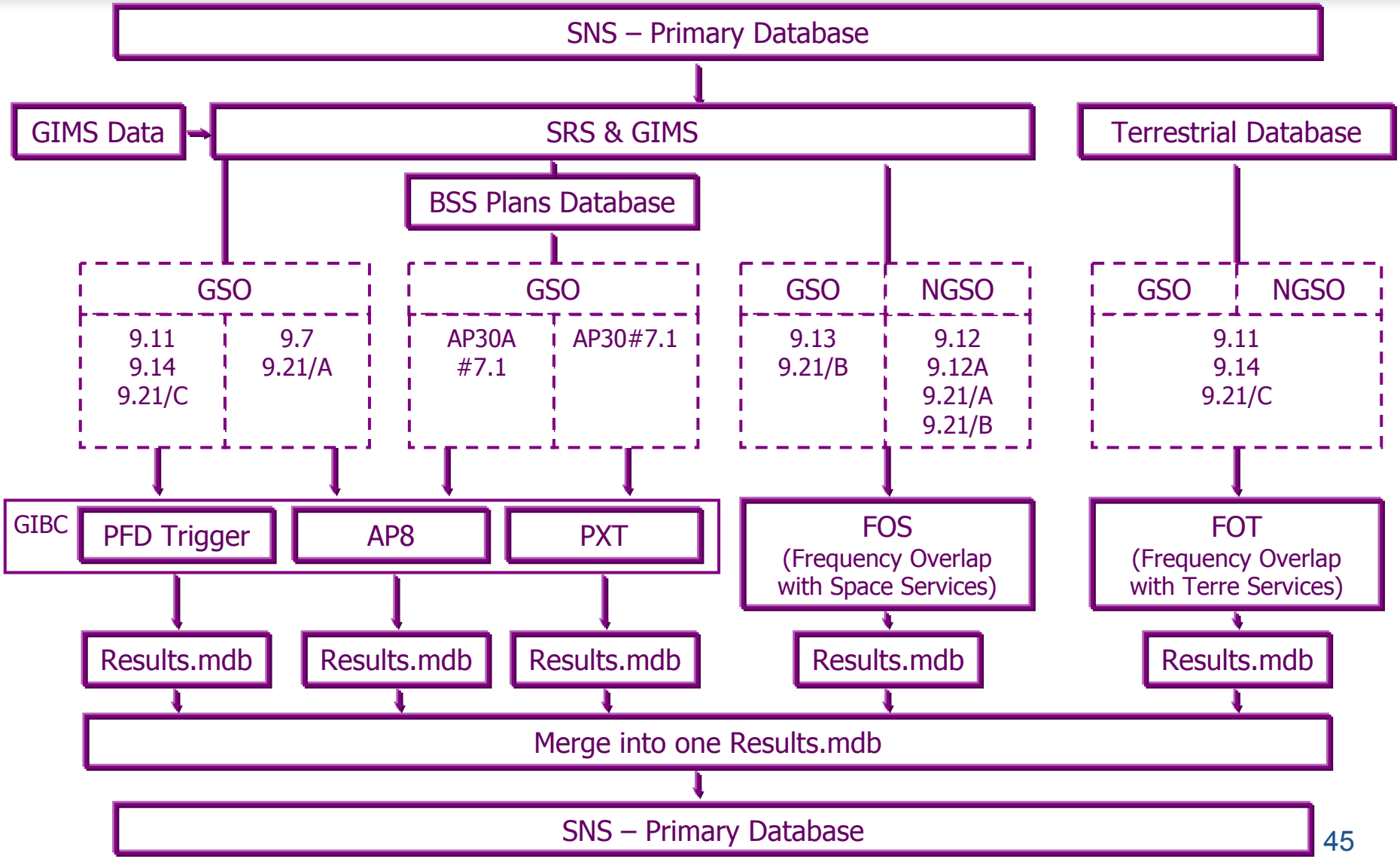
Merge Databases



Merge Individual Databases

Update Database

Merge Databases



Merge Databases

provn : Table

grp_id	coord_prov	agree_st	seq_no	coord_st	adm	ntwk_org	ctry
103639008	9.7	A	1		AUS		
103639008	9.7	A	2		F	EUT	
103639008	9.7	A	3		G		
103639008	9.7	A	4		HOL		
103639008	9.7	A	5		MLA		
103639008	9.7	A	6		NOR		

9.7

provn : Table

grp_id	coord_prov	agree_st	seq_no	coord_st	adm	ntwk_org	ctry
103639008	A30#7.1	Q	1		AFS		
103639008	A30#7.1	Q	2		F	EUT	
103639008	A30#7.1	Q	3		I		
103639008	A30#7.1	Q	4		LSO		
103639008	A30#7.1	Q	5		MWI		

AP30#7.1

provn : Table

grp_id	coord_prov	agree_st	seq_no	coord_st	adm	ntwk_org	ctry
103639008	9.14	F	1		FIN		
103639009	9.14	F	1		FIN		
103639010	9.14	F	1		FIN		
103639011	9.14	F	1		FIN		

9.14

provn : Table

grp_id	coord_prov	agree_st	seq_no	coord_st	adm	ntwk_org	ctry
103639008	9.14	P	1		ARG		
103639008	9.14	P	2		ATG		
103639008	9.14	P	3		B		
103639008	9.14	P	4		BAH		
103639008	9.14	P	5		BOL		
103639008	9.14	P	6		BRB		
103639008	9.14	P	7		CAN		
103639008	9.14	P	8		CHL		
103639008	9.14	P	9		CLM		
103639008	9.14	P	10		DMA		
103639008	9.14	P	11		DNK		GRL
103639008	9.14	P	12		DOM		
103639008	9.14	P	13		FIN		
103639008	9.14	P	14		G		AIA
103639008	9.14	P	15		G		BER
103639008	9.14	P	16		G		FLK
103639008	9.14	P	17		G		MSR
103639008	9.14	P	18		G		TCA

Record: 1 of 316

9.14

- Combines affected administrations from provn Tables …

Provn Table

provn : Table

grp_id	coord_prov	agree_st	seq_no	coord_st	adm	ntwk_org	ctry
103639008	9.7	A	1		AUS		
103639008	9.7	A	2		F	EUT	
					G		
					HOL		
					MLA		
					NOR		
					S	NOT	
					USA		
					AFS		
					F	EUT	
					I		
					LSO		
					MWI		
103639008	A30#7.1	Q	14		S		
103639008	A30#7.1	Q	15		SWZ		
103639009	9.14	F	16		FIN		
103639009	9.14	P	17		ARG		
103639009	9.14	P	18		ATG		
103639009	9.14	P	19		B		
103639009	9.14	P	20		BAH		
103639009	9.14	P	21		BOL		
103639009	9.14	P	22		BRB		
103639009	9.14	P	23		CAN		
103639009	9.14	P	24		CHL		
103639009	9.14	P	25		CLM		
103639009	9.14	P	26		DMA		
103639009	9.14	P	27		DNK		GRL
103639009	9.14	P	28		DOM		
103639009	9.14	P	29		FIN		
103639009	9.14	P	30		G		AIA
103639009	9.14	P	31		G		BER

Record: 1 of 636

coord_prov	agree_st
9.7	A
A30#7.1	Q
9.14	F
9.14	P

Provision symbol & agreement status described in Table 11A (BR Preface)

Merge Databases

tr_aff_ntw : Table

ntc_id	coord_prov	agree_st	aff_ntc_id	adm	ntwk_org	ctry	sat_name	long_nom	ntf_rsn
103520239	9.7	A	88920001	F	EUT		EUTELSAT-1	10	N
103520239	9.7	A	88920002	F	EUT		EUTELSAT 1-2	13	N
103520239	9.7	A	90500540	S	NOT		TELE-X	5	C
103520239	9.7	A	90500541	S	NOT		TELE-X	5	N
103520239	9.7	A	90500631	F	EUT		EUTELSAT 1-3	7	N
103520239	9.7	A	90500635	F	EUT		EUTELSAT 1-2	13	C
103520239	9.7	A	90500636	F	EUT		EUTELSAT 1-3	7	C
103520239	9.7	A	90500637	F	EUT		EUTELSAT-1	10	C
103520239	9.7	A	90500770	USA			INTELSAT7 359	-1	C
103520239	9.7	A	90998001	F	EUT		EUTELSAT 2-16	16	C

Record: 1 of 65

9.7

… and combines affected networks from tr_aff_ntw Tables

tr_aff_ntw : Table

ntc_id	coord_prov	agree_st	aff_ntc_id	adm	ntwk_org	ctry	sat_name	long_nom	ntf_rsn
103520239	A30#7.1	Q	95552004	F	EUT		EUTELSAT B-1	13	B
103520239	A30#7.1	Q	100550002	AFS			AFS02100	4.8	B
103520239	A30#7.1	Q	100550100	I			I 08200	9	B
103520239	A30#7.1	Q	100550133	LSO			LSO30500	4.8	B
103520239	A30#7.1	Q	100550151	MWI			MWI30800	4.8	B
103520239	A30#7.1	Q	100550177	S			S 13800	5	B
103520239	A30#7.1	Q	100550194	SWZ			SWZ31300	4.8	B
103520239	A30#7.1	Q	100551006	F	EUT		EUTELSAT B-1	13	B
103520239	A30#7.1	Q	100551031	S			SIRIUS-2-BSS	5	B
103520239	A30#7.1	Q	100551032	S			SIRIUS-3-BSS	5.2	B

Record: 1 of 10

AP30#7.1

Tr_aff_ntw Table

tr_aff_ntw : Table

ntc_id	coord_prov	agree_st	aff_ntc_id	adm	ntwk_org	ctry	sat_name	long_nom	ntf_rsn
103520239	9.7	A	303520265	F	EUT		EUTELSAT 3-4	4	C
103520239	9.7	A	303520267	F	EUT		EUTELSAT 3-1	13	C
103520239	9.7	A	303520268	F	EUT		EUTELSAT 3-1	16	C
103520239	9.7	A	303520291	F	EUT		EUTELSAT 3-1	10	C
103520239	A30#7.1	Q	95552004	F	EUT		EUTELSAT B-1	13	B
103520239	A30#7.1	Q	100550002	AFS			AFS02100	4.8	B
103520239	A30#7.1	Q	100550100	I			I 08200	9	B
103520239	A30#7.1	Q	100550133	LSO			LSO30500	4.8	B
103520239	A30#7.1	Q	100550151	MWI			MWI30800	4.8	B
103520239	A30#7.1	Q	100550177	S			S 13800	5	B
103520239	A30#7.1	Q	100550194	SWZ			SWZ31300	4.8	B
103520239	A30#7.1	Q	100551006	F	EUT		EUTELSAT B-1	13	B
103520239	A30#7.1	Q	100551031	S			SIRIUS-2-BSS	5	B
103520239	A30#7.1	Q	100551032	S			SIRIUS-3-BSS	5.2	B

Record: 62 of 75

In Summary

- Used applicable software based on provisions
- Reviewed coordination requirements
- Merged results from individual databases

No. 9.36:

Identify any administration with which coordination may need to be effected

Coordination Examination

Final Step …

No. 9.35 :

Conformity with Table of Frequency Allocation etc.

No. 9.36:

Identify any administration with which coordination may need to be effected

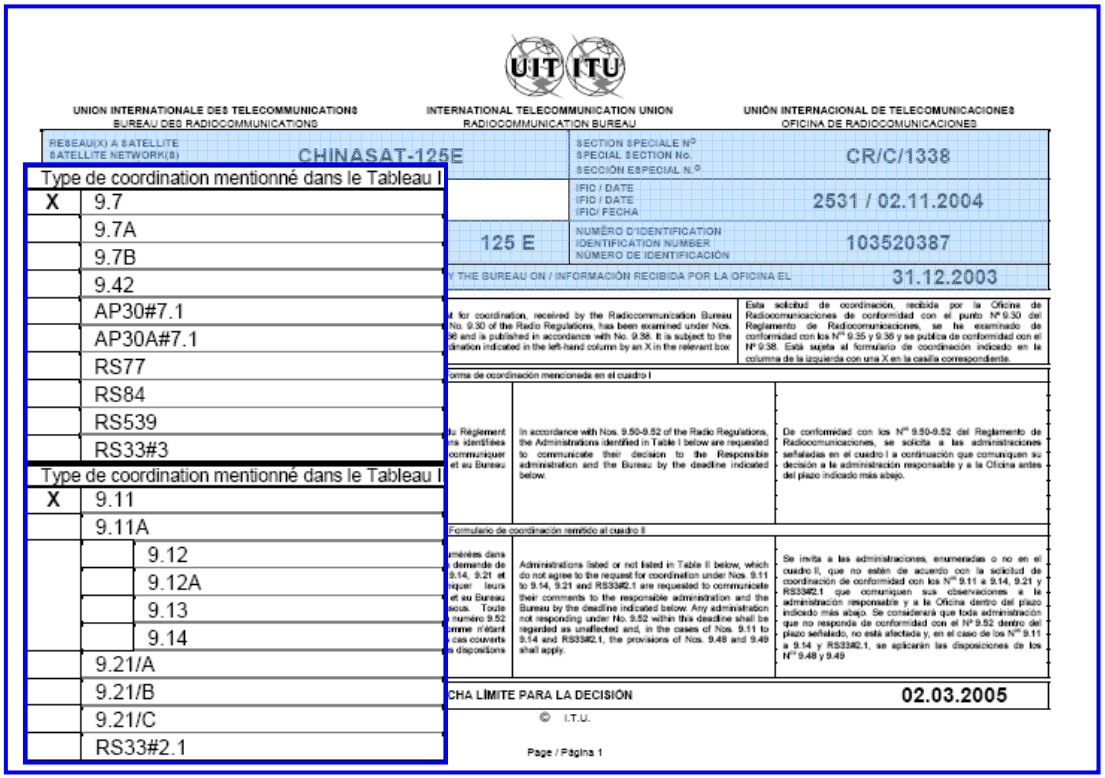
Coordination Examination

Publication

… CR/C Publication

Satellite Network CR/C

X 9.7 Indication of applicable forms
X 9.11 of coordination to the network



UIT ITU

UNION INTERNATIONALE DES TELECOMMUNICATIONS
BUREAU DES RADIOCOMMUNICATIONS

INTERNATIONAL TELECOMMUNICATION UNION
RADIOCOMMUNICATION BUREAU

UNIÓN INTERNACIONAL DE TELECOMUNICACIONES
OFICINA DE RADIOCOMUNICACIONES

RESEAU(X) A SATELLITE / SATELLITE NETWORK(S)	CHINASAT-125E	SECTION SPECIALE N° / SPECIAL SECTION No. / SECCIÓN ESPECIAL N.°	CR/C/1338
		IFIC / DATE / IFIC / DATE / IFIC/ FECHA	2531 / 02.11.2004
	125 E	NUMÉRO D'IDENTIFICATION / IDENTIFICATION NUMBER / NÚMERO DE IDENTIFICACIÓN	103520387
Y THE BUREAU ON / INFORMACIÓN RECIBIDA POR LA OFICINA EL			31.12.2003

Type de coordination mentionné dans le Tableau I	
X	9.7
	9.7A
	9.7B
	9.42
	AP30#7.1
	AP30A#7.1
	RS77
	RS84
	RS539
	RS33#3
Type de coordination mentionné dans le Tableau I	
X	9.11
	9.11A
	9.12
	9.12A
	9.13
	9.14
	9.21/A
	9.21/B
	9.21/C
	RS33#2.1

d for coordination, received by the Radiocommunication Bureau Nos. 9.50 of the Radio Regulations, has been examined under Nos. 9.36 and is published in accordance with No. 9.38. It is subject to the dination indicated in the left-hand column by an X in the relevant box

Esta solicitud de coordinación, recibida por la Oficina de Radiocomunicaciones de conformidad con el punto Nº 9.50 del Reglamento de Radiocomunicaciones, se ha examinado de conformidad con los Nºº 9.35 y 9.36 y se publica de conformidad con el Nº 9.38. Está sujeta al formulario de coordinación indicado en la columna de la izquierda con una X en la casilla correspondiente.

orme de coordinación mencionada en el cuadro I

du Règlement ns identifiées communiquer et au Bureau	In accordance with Nos. 9.50-9.52 of the Radio Regulations, the Administrations identified in Table I below are requested to communicate their decision to the Responsible administration and the Bureau by the deadline indicated below.	De conformidad con los Nºº 9.50-9.52 del Reglamento de Radiocomunicaciones, se solicita a las administraciones señaladas en el cuadro I a continuación que comuniquen su decisión a la administración responsable y a la Oficina antes del plazo indicado más abajo.

Formulario de coordinación remitido al cuadro II

mérées dans demande de 9.14, 9.21 et iquer leurs et au Bureau sous. Toute numéro 9.52 omme n'étant s cas couverts s dispositions	Administrations listed or not listed in Table II below, which do not agree to the request for coordination under Nos. 9.11 to 9.14, 9.21 and RS33#2.1 are requested to communicate their comments to the responsible administration and the Bureau by the deadline indicated below. Any administration not responding under No. 9.52 within this deadline shall be regarded as unaffected and, in the cases of Nos. 9.11 to 9.14 and RS33#2.1, the provisions of Nos. 9.48 and 9.49 shall apply.	Se invita a las administraciones, enumeradas o no en el cuadro II, que no estén de acuerdo con la solicitud de coordinación de conformidad con los Nºº 9.11 a 9.14, 9.21 y RS33#2.1 que comuniquen sus observaciones a la administración responsable y a la Oficina dentro del plazo indicado más abajo. Se considerará que toda administración que no responda de conformidad con el Nº 9.52 dentro del plazo señalado, no está afectada y, en el caso de los Nºº 9.11 a 9.14 y RS33#2.1, se aplicarán las disposiciones de los Nºº 9.48 y 9.49

CHA LIMITE PARA LA DECISIÓN 02.03.2005

© I.T.U.

Page / Página 1

… CR/C Publication

Summary of coord. req. per provision

Satellite Network CR/C

X 9.7 Indication of applicable forms
X 9.11 of coordination to the network

Tableau/Table/Cuadro I

	Disposition Provision Disposición	Résumé des conditions régissant la coordination Summary of coordination requirements Resumen de los requisitos de coordinación
X	9.7	AUS, F, GHA, IND, INS, MLA, RUS, TON, USA, VTN
	9.42	
	AP30#7.1	
	AP30A#7.1	
	RG77	
	RG84	
	RG539	
	RG33#3	

Tableau/Table/Cuadro II

	Disposition Provision Disposición	Administrations susceptibles d'être défavorablement influencées (à titre d'information uniquement, voir numéro 9.36.1) Potentially affected administrations (for information only, see No. 9.36.1) Administraciones posiblemente afectadas (sólo para información, véase el Nº 9.36.1)
X	9.11	AUS, BHR, F/MYT, F/OCE, F/REU, INS, IRN, J, NZL,
	9.12A	
	9.13	
	9.14	
	9.21/A[1]	
	9.21/B[1]	
	9.21/C[1]	
	RG33#2.1	

[1] 9.21/A, 9.21/B et 9.21/C – au titre du numéro 9.21, administrations ayant des réseaux OSG, des réseaux non-OSG et des stations de Terre, respectivement.
[1] 9.21/A, 9.21/B and 9.21/C – Under No. 9.21, administrations with GSO networks, Non-GSO networks and terrestrial stations, respectively.
[1] 9.21/A, 9.21/B y 9.21/C – De conformidad con el Nº 9.21, administraciones con redes OSG, redes no OSG y estaciones terrestres, respectivamente.

Page / Página 2

… CR/C Publication

Coordination requirement at group level

BR comments (e.g. N- findings)

Summary of coord. req. per provision

Satellite Network CR/C

X 9.7 Indication of applicable forms
X 9.11 of coordination to the network

OBSERVATIONS DU BUREAU DES RADIOCOMMUNICATIONS

Relatives à la Conclusion conformément au Nº 11.31

FAVORABLE pour toutes les assignations de fréquence.

Relatives à l'examen conformément au Nº 9.36

Voir page 2 pour le résumé. Pour plus de détails, voir les pages qui suivent.

RADIOCOMMUNICATION BUREAU COMMENTS

Relating to the Findings with respect to No. 11.31

FAVOURABLE for all frequency assignments.

Relating to the examination with respect to No. 9.36

See page 2 for the summary. Details are provided on pages that follow.

OBSERVACIONES DE LA OFICINA DE RADIOCOMUNICACIONES

Relativas a la Conclusión según N.º 11.31

FAVORABLE para todas las asignaciones de frecuencia.

Relativas al examen según N.º 9.36

Véase página 2 para el resumen. Se indican los detalles en las páginas siguientes.

I. Nécessité d'une coordination au niveau du groupe

I. Coordination requirements at group level

I. Requisitos de coordinación a nivel de grupo

B1a Beam designation	B2 Emi-Rcp	BR7a Group Id.	GHz	Administrations identifiées au titre du N° 9.7 par : / Administrations identified under No. 9.7 by : / Administraciones identificadas según N.° 9.7 por : Delta T/T	Arc de coordination / Coordination Arc / Arco de coordinación
XUCN	R	103644946	7		TON VIN
XUR	R	103644944	7		TON VIN
LDCN	E	103644945	1	AUS F GHA IND INS MLA RUS TON USA VIN	

CR/C/1338
Page / Página 14

… CR/C Publication

Network List(s) – For info only

Coord. req. at group level

BR comments (e.g. N- findings)

Summary of coord. req. per provision

Satellite Network CR/C

X 9.7 Indication of applicable forms
X 9.11 of coordination to the network

II. Liste des réseaux à satellite
(à titre d'information uniquement, voir N° 9.36.2)

II. List of satellite networks
(for information only, see No. 9.36.2)

II. Lista de redes de satélite
(sólo para información, véase el N.° 9.36.2)

Liste des réseaux à satellite pour lesquels Delta T/T > 6% ou situés à l'intérieur de l'arc de coordination (au titre du N° 9.7)
List of satellite networks for which Delta T/T > 6% or which are within the coordination arc (under No. 9.7)
Lista de redes de satélite para las que Delta T/T > 6% o que están dentro del arco de coordinación (según N.° 9.7)

(à titre d'information uniquement, voir N° 9.36.2) / (for information only, see No. 9.36.2) / (sólo para información, véase el N.° 9.36.2)

A1f1 Notifying adm.	A1f2 Inter. sat. org.	A1a Sat. Network	A4a1 Orbital long.	BR3b Category of notif.	BR25 A/T	BR6a Id. no.	BR26 Causing interference	BR27 Receiving interference	BR28 Detected by coord. arc
AUS		ASIABSS	105 E	C	A	96520117	C	R	
		ASIABSS	105 E	N	A	99500259	C	R	
F		F-SATDAB-1	9 E	C	A	99520296	C	R	
		F-SATDAB-1A	9 E	C	A	103520051	C	R	
		F-SATDAB-2	45 E	C	A	99520297	C	R	
		F-SATDAB-3	16.5 E	C	A	101520275	C	R	
		F-SATDAB-4	45 E	C	A	101520378	C	R	
		F-SATDAB-5B	21.5 E	C	A	103520326	C	R	
GHA		AFRIBSS-2	21.5 E	C	A	96520248	C	R	
IND		INDAB-113.5E	113.5 E	C	A	98520433	C	R	
		INDAB-51.5E	51.5 E	C	A	98520434	C	R	
		INDAB-56.5E	56.5 E	C	A	98520435	C	R	
		INDAB-71E	71 E	C	A	98520437	C	R	
		INDAB-79E	79 E	C	A	98520438	C	R	
		INDAB-89E	89 E	C	A	98520436	C	R	
INS		INDOSTAR-1	107.7 E	C	A	93520072	C	R	
MLA		MEASAT-1	91.5 E	C	A	92520152	C	R	
		MEASAT-2	148 E	C	A	92520083	C	R	
		MEASAT-3	95 E	C	A	92520084	C	R	
		MEASAT-4	72 E	C	A	95520084	C	R	
		MEASAT-5.7E	5.7 E	C	A	103520070	C	R	
		MEASAT-9E	9 E	C	A	103520018	C	R	
		MEASAT-LA1	89.5 W	C	A	96520114		R	
		MEASAT-SA1	5.7 E	C	A	95520340	C	R	
		MEASAT-SA2	9 E	C	A	95520342	C	R	
		MEASAT-SA3	37 E	C	A	95520003	C	R	
		MEASAT-SA4	46 E	C	A	95520004	C	R	
RUS		SADKO-1	85.4 E	C	A	102520075	C	R	
TON		TONGASAT-DAB-1/130	130 E	C	A	98520263	C	R	A
		TONGASAT-DAB-1/134	134 E	C	A	98520266	C	R	A
		TONGASAT-DAB-1/138	138 E	C	A	98520264	C	R	
		TONGASAT-DAB-1/14	14 E	C	A	98520182	C	R	
		TONGASAT-DAB-1/142.5	142.5 E	C	A	98520267	C	R	

CR/C/1338
Page / Página 15

Questions

Thank you