



# Fixed-Satellite Service Plan (Appendix 30B)

Presented by  
ITU-R/SSD Space Notification and Plans Division

# FSS Plan in Appendix 30B

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Adopted by **WARC ORB-88**

(World Administrative Radio Conference on the Use of the Geostationary-Satellite Orbit and the Planning of Space Services Utilizing It)

Modified by **WRC-07** (World Radio Conference)

- to improve its efficiency and
- reflect the development of technology

## **Objective:**

to **guarantee** in practice, for all countries, **equitable access** to the geostationary-satellite orbit in the frequency bands of the fixed-satellite service covered by Appendix 30B

# Frequency Bands of the FSS Plan

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## **6 / 4 GHz** **(300 MHz)**

**6725 - 7025 MHz (up)**

**4500 - 4800 MHz (down)**

## **13 / 10-11 GHz** **(500 MHz)**

**12.75 - 13.25 GHz (up)**

**10.70 - 10.95 GHz (down)**

**11.20 - 11.45 GHz (down)**

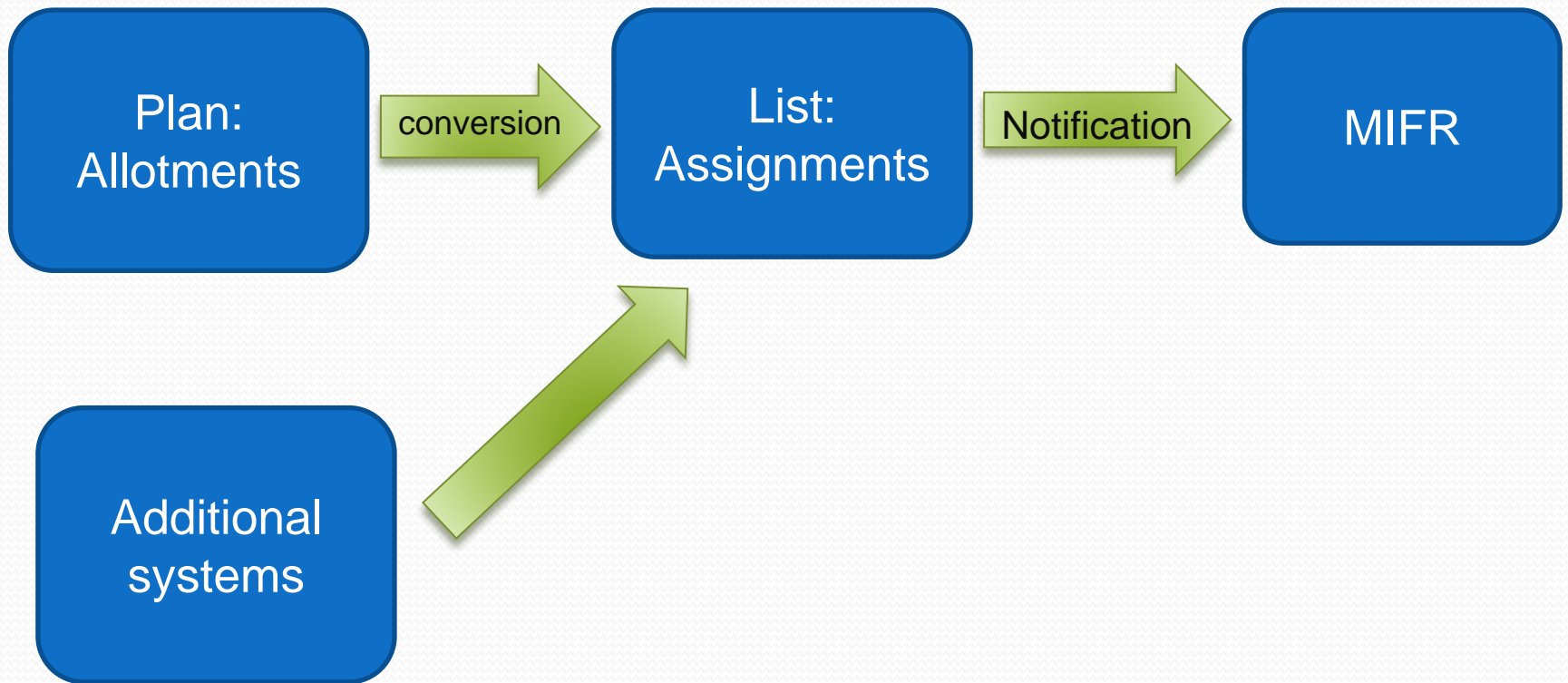
# Elements of the FSS Allotment PLAN

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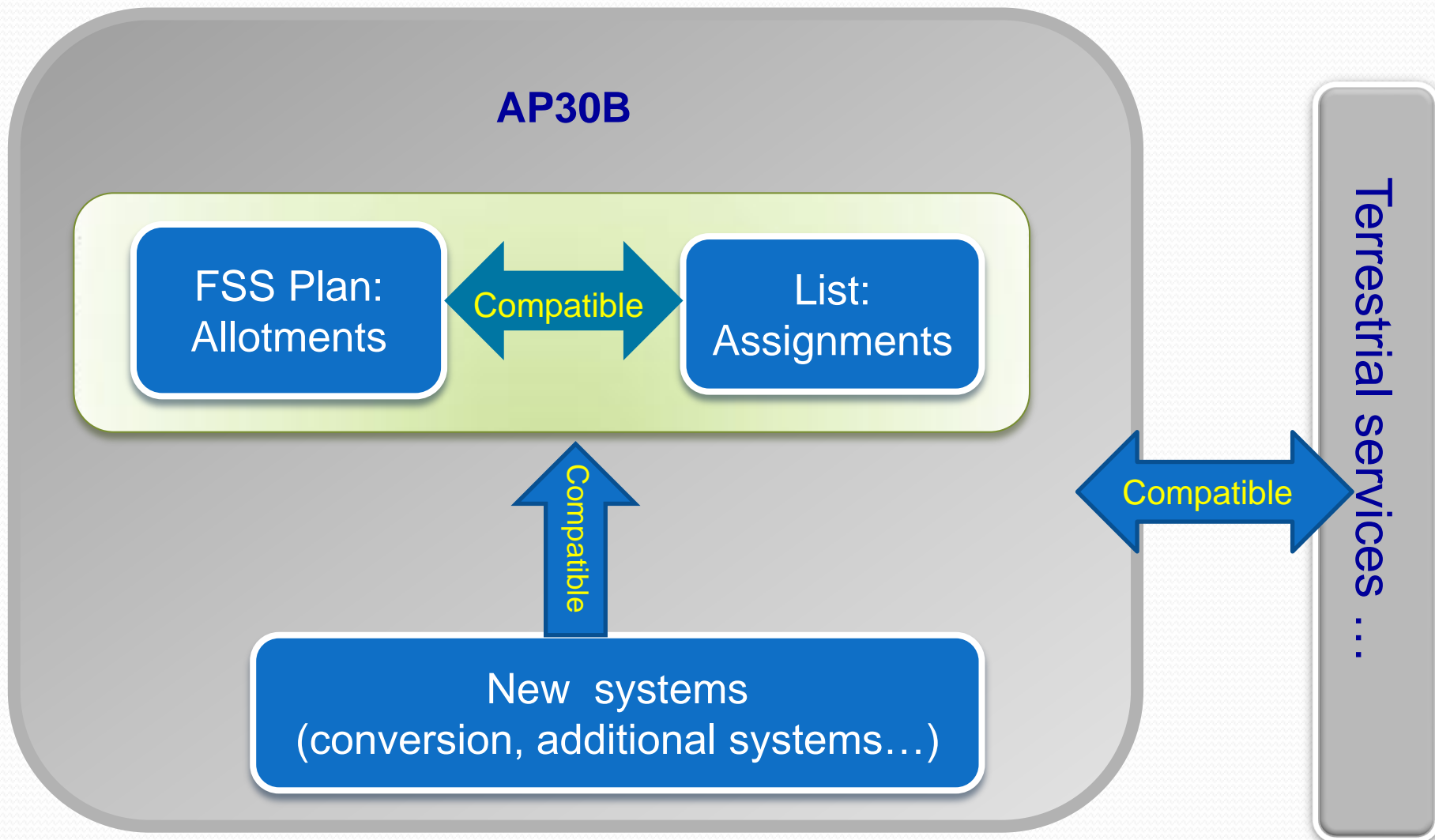
- **Nominal orbital position**
- **Frequency:**
  - bandwidth of 800MHz × 2 (uplink and downlink)
- **Service area:**
  - national coverage
- **Technical characteristics:**
  - power levels, ellipse parameters, and other standard characteristics...
  - (described in Article 10 and Annex 1 of AP30B)

# Appendix 30B procedure

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# COMPATIBILITY analysis




# Appendix 30B (I)

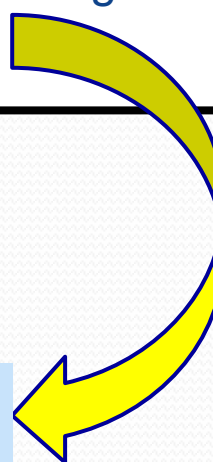
|            |  |
|------------|--|
| Article 1  | Objective of the provisions and associated Plan  |
| Article 2  | Definitions  |
| Article 3  | Frequency bands  |
| Article 4  | Execution of the provisions and associated Plan  |
| Article 5  | (SUP – WRC-07)   |
| Article 6  | Procedures for the <b>conversion</b> of an allotment into an assignment, for the introduction of an <b>additional system</b> or for the <b>modification</b> of an assignment in the List |
| Article 7  | Procedure for the addition of a <b>new allotment</b> to the Plan for a new Member State of the Union   |
| Article 8  | Procedure for <b>notification</b> and recording in the Master Register   |
| Article 9  | General provisions   |
| Article 10 | FSS Plan   |
| Article 11 | Period of validity of the provisions and associated Plan   |

# Appendix 30B (II)

|         |   |
|---------|---|
| Annex 1 | Parameters used for FSS allotment Plan  |
| Annex 2 | (SUP – WRC-07)  |
| Annex 3 | PFD Limits  |
| Annex 4 | Criteria for determining whether an allotment or an assignment is considered to be affected |



PFD limits for both  
uplink and downlink



Single entry (uplink &  
downlink) and  
aggregate C/I



# Article 7 – New Allotment

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**New ITU Member States can obtain a national allotment**

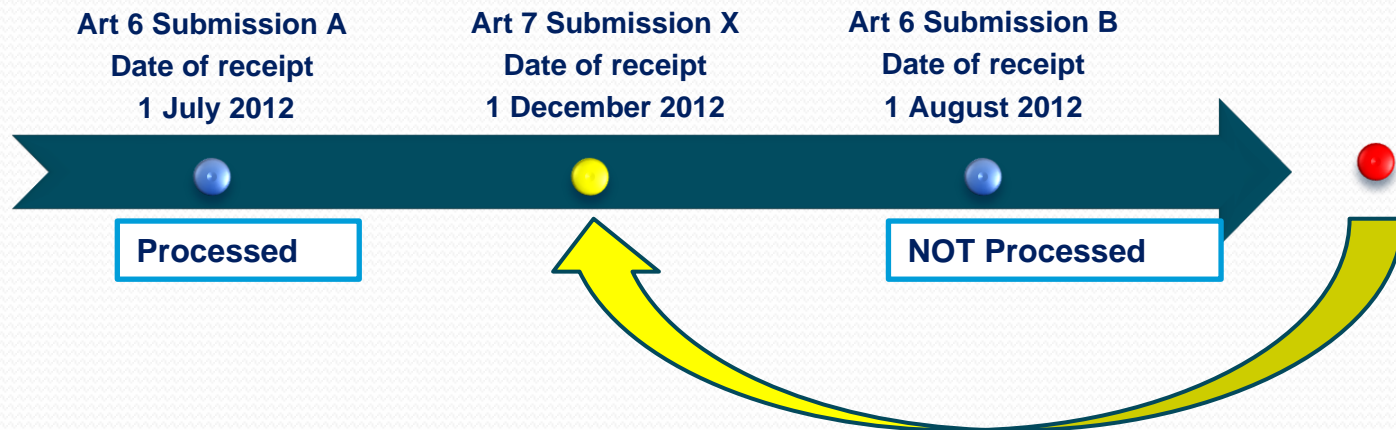
**Required information:**

- Geographical coordinates of 20 test points (max.)
- Height above sea of each test point
- Any special requirement

**The Bureau identifies and proposes orbital locations with associated technical parameters**

# Article 7 – New Allotment

## Processing ahead of pending submissions for Article 6

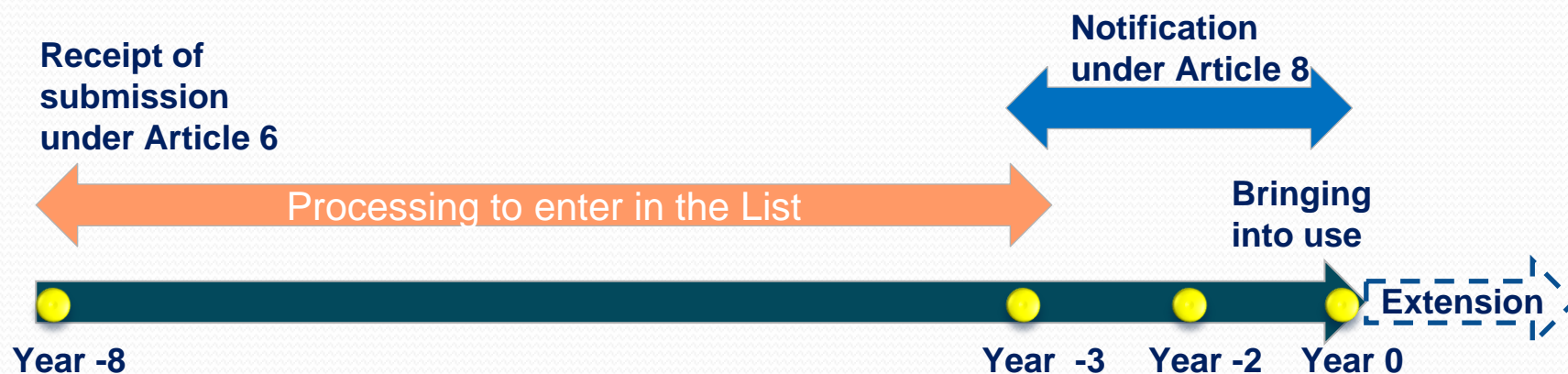


**In case of incompatibility, Article 6 procedure applies**

# Article 6 – entry into the List

## 8 years **Regulatory period** from receipt of Article 6 submission

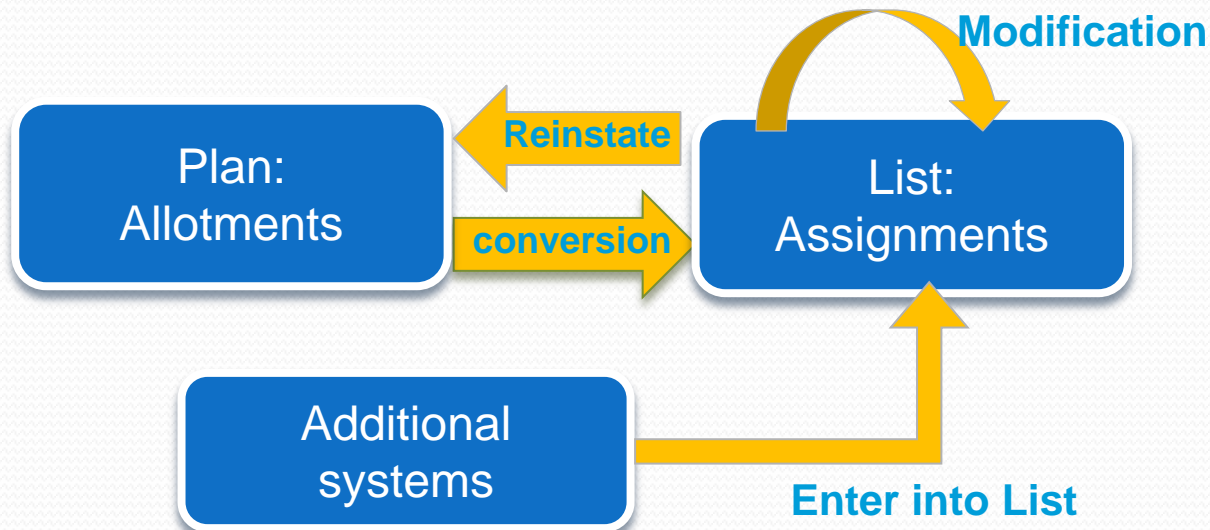
- to complete Article 6 procedure to be included in the List
- to bring into use assignments (confirmation through notification procedure within 30 days)
- to submit due diligence information (Res.49)
- can be extended to max. **3 years** in case of launch failure (WRC-12)



# Article 6 – entry into the List

## Procedure applicable for :

- Conversion of an allotment into an assignment
- Introduction of an additional system
- Modification of an assignment in the List
- .....



# Processing of Article 6 Submissions (1)



Submission of validated AP4 data under §6.1 (8 years before planned date of bringing into use)

Fail

Validation Check



OK

Acknowledgement telefax



Publication of "as received"  
(BR IFIC & SNL Part C)  
<http://www.itu.int/itu-r/space/snl/>

# Processing of Article 6 Submissions (2)



Completeness examination and telefax

Reply must be sent within 30 days (receivability RoP)

Regulatory/technical Examinations (§6.3, §6.5)



Unfavorable assignments return to notifying Administration

Publication of AP30B/A6A Special Section (satellite network characteristics and potentially affected administrations)



# Processing of Article 6 Submissions (3)



ITU-BR



Administrations should examine each BR IFIC to see if their assignments are affected and respond within 4 months

NO   
SpaceCom!

Affected administrations that do not comment within the 4 month period are deemed to have NOT agreed

Notifying administration can request assistance of the BR to receive replies from affected administrations

The BR sends reminders to the affected administration which has not replied

No response from Affected administrations to the BR's reminders is considered as agreement

# Processing of Article 6 Submissions (4)



Submission of validated AP4 data under §6.17 (final characteristics) with required agreements

Validation Check 

Fail

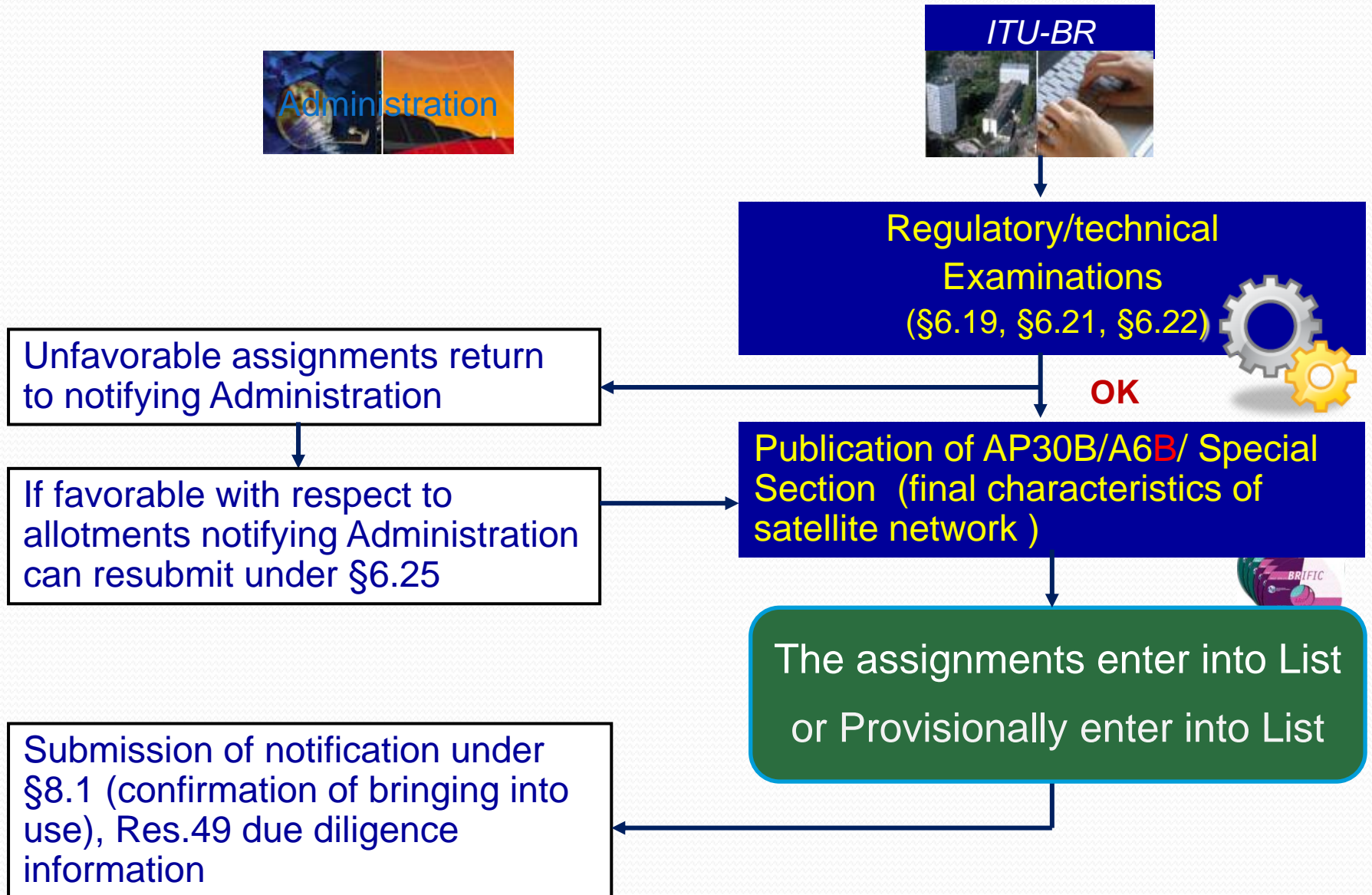
OK

Completeness examination and telefax

Reply must be sent within 30 days (receivability RoP)



# Processing of Article 6 Submissions (5)



# Summary of publications of Article 6

- **Special Section AP30B/A6A/:**
  - Proposed characteristics;
  - List of affected networks and administrations (coordination Requirement)
- **Special Section AP30B/A6B/:**
  - Final Characteristics (protected characteristics in the subsequent examinations);
  - BR findings; Enter in the List ?

# Article 8 – Notification of assignments

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**Art.6 procedure successful**



**submitting notification  
under Art. 8**

- Final characteristics for List assignments to be recorded in MIFR (not taken into account in subsequent technical examinations under Articles 6, 7 and 8)
- Confirmation of the date of bringing into use (**90 days operation**)
- If not submitted then cancellation of Article 6 submission

# Processing of Article 8 Submissions (1)



Submission of validated Appendix 4 data (characteristics (to be) brought into use(BIU)) not earlier than 3 years before BIU but not later than 8 years after submission under §6.1

Fail

Validation Check

OK

Acknowledgement telefax

Completeness examination

Reply must be sent within 30 days (receivability RoP)

# Processing of Article 8 Submissions (2)



Publication of Part IS of BR IFIC that contains the characteristics (to be) brought into use

Regulatory/technical examination



Favourable

Unfavourable

Publication of Part IIS  
Record in MIFR  
<http://www.itu.int/sns/>



Publication of Part IIIS  
<http://www.itu.int/sns/>



# Useful Website Addresses

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## For more information

*<http://www.itu.int/en/ITU-R/space/plans/Pages/AP30B.aspx>*

**Latest AP30B database with Plan, List and MIFR**

*<http://www.itu.int/ITU-R/go/space-plans/en>*

**General information relating to space plan services**

*<http://www.itu.int/ITU-R/space/snl/index.html>*

**SNL On-Line; list of published networks, networks in the backlog**

Any Question ?