

The removal of non-functioning satellites and the ITU

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Space debris regulation

Space debris?

- Fragments
- Physically intact space objects
- Criterion?
 - Debris guidelines, STSC UNCOPUOS
 - Non-functional and without reasonable expectation to resume intended function
 - 'Functional', period of non-functionality?

UN treaty regime

- Applicable?
- Space object
- Art. VII OST, LIAB: liability for damages
- Art. VIII OST: removal of non-functional satellites

Guidelines

- Remove LEO/GEO satellites from orbit in controlled fashion
- Non-binding
- Many satellites not de-orbited





ITU

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 - Detailed, technical, regularly reviewed and updated
 - Binding upon 193 member states
 - Avoids space object language
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- Does not mention space debris
- Allocation and use of radio frequencies and associated orbits
- Focus on physically intact satellite systems and networks
- Aim of ITU: avoid harmful interference
 - Registration in MIFR
 - International recognition and protection from harmful interference
 - Protection lost if removed from MIFR
 - Removed from MIFR if
 - Never brought into use
 - Paper/virtual satellites
 - No longer in use





Actual and continued use

- Registration and protection hinges on actual and continued use
- Actual use
 - Notice: date of bringing into use
 - Date at which assignment is brought into regular operation to provide published service with notified technical characteristics
 - WRC-12: deployed and maintained at the notified orbital position for a continuous period of ninety days
- Continued use
 - In case of suspension of use, administration must notify
 - Date assignment was suspended (max. 18 months)
 - Date assignment will be brought back into regular operation (max. 2 years after suspension)
 - Maximum two years of inactivity
- Implications
 - Removed from MIFR
 - Loss of protection from harmful interference
 - No longer taken into account when considering notices from other administrations





Clarifications

- Space debris criterion
 - Functionality: regular operation providing intended service with notified technical characteristics
 - No reasonable expectation to resume intended function when no regular operation for more than two years
- Removal of non-functional satellite from orbit
 - Non-functional satellite removed from MIFR
 - Not taken into account in registration procedure other satellite
 - New satellite may be granted protected right to use orbit occupied by non-functional satellite
 - Appears to imply that State must remove non-functional space object from orbit
- Art. VIII ?
 - Exclusive jurisdiction over space object irrelevant
 - Still has to comply with other rules of international law: ITU regulations





Thank you for your attention

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