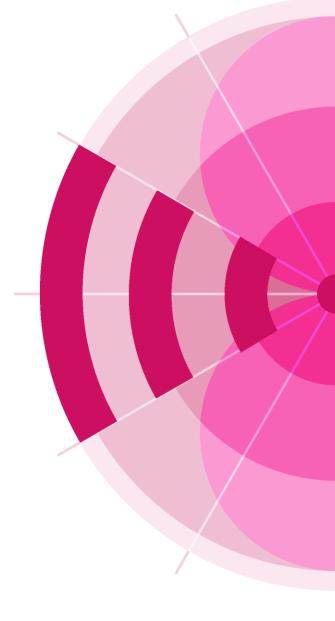


29TH WORLD RADIOCOMMUNICATION SEMINAR

30 November - 11 December 2020

SpaceCap v9.1

 Improvements in NGSO orbital information support



Overview

- WRC-19 Appendix 4 changes mostly concerned NGSO systems
- The immediate entry into force of AP4 changes forced the BR to accept submissions of AP4 data in Excel and PDF
- SpaceCap has been updated in two phases:
 - v9 (August 2020) and
 - v9.1 (to be released in January 2021)
- Changes to NGSO orbital information screens for:
 - API
 - CR/C
 - Notification





Common Changes in NGSO Orbital Information

- Includes all changes for NGSO from v9 (such as constellation details)
- Sun-synchronous orbit indication and local time details
- Action code for orbits (when the submission is a MOD)
- Phase data is no longer split into two screens
- Effort to show individual orbit details without the need for scrolling
- Effort to only display relevant columns in data grids

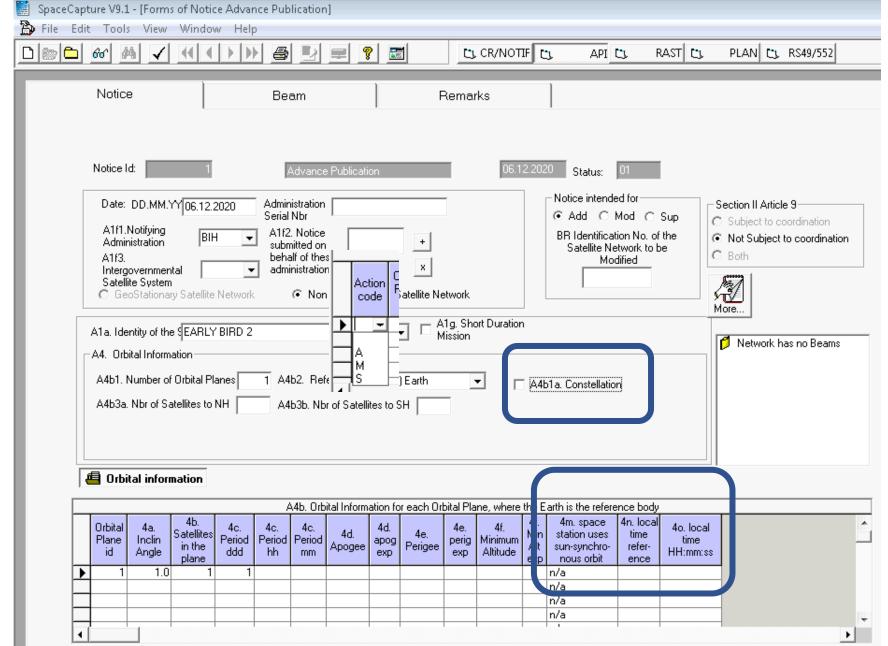




ALL SUBMISSIONS

Constellation

Sun-synchronous

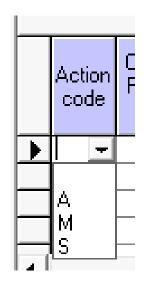




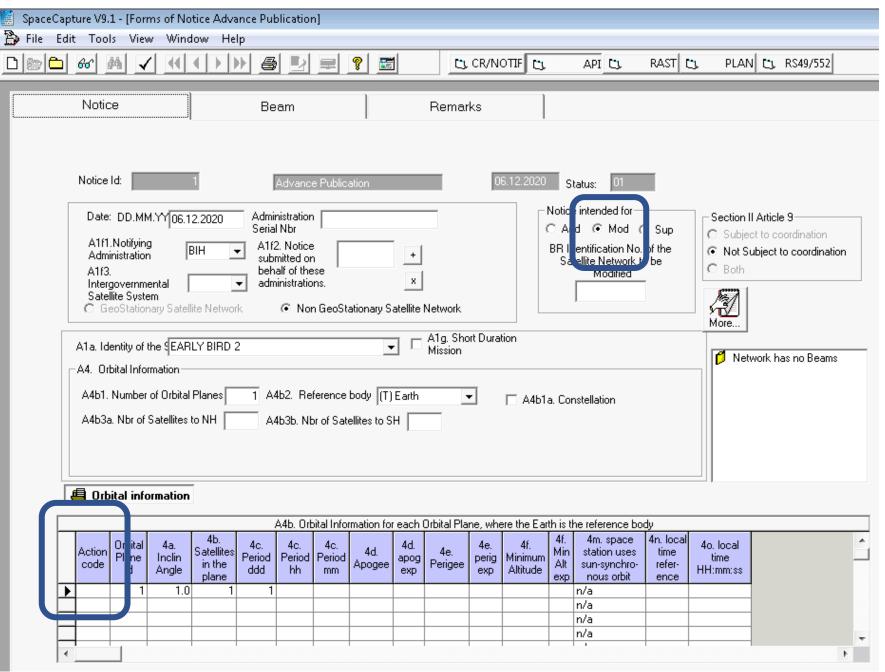


ALL SUBMISSIONS

Action code









Changes in API NGSO Orbital Information

- Orbital set identifier (when the system is a constellation with mutually exclusive configurations)
- Certain data entry elements and screens only appear for constellations (in addition to orbit set identifier):
 - Argument of the perigee and longitude of the ascending node (LAN)
 - Phase information

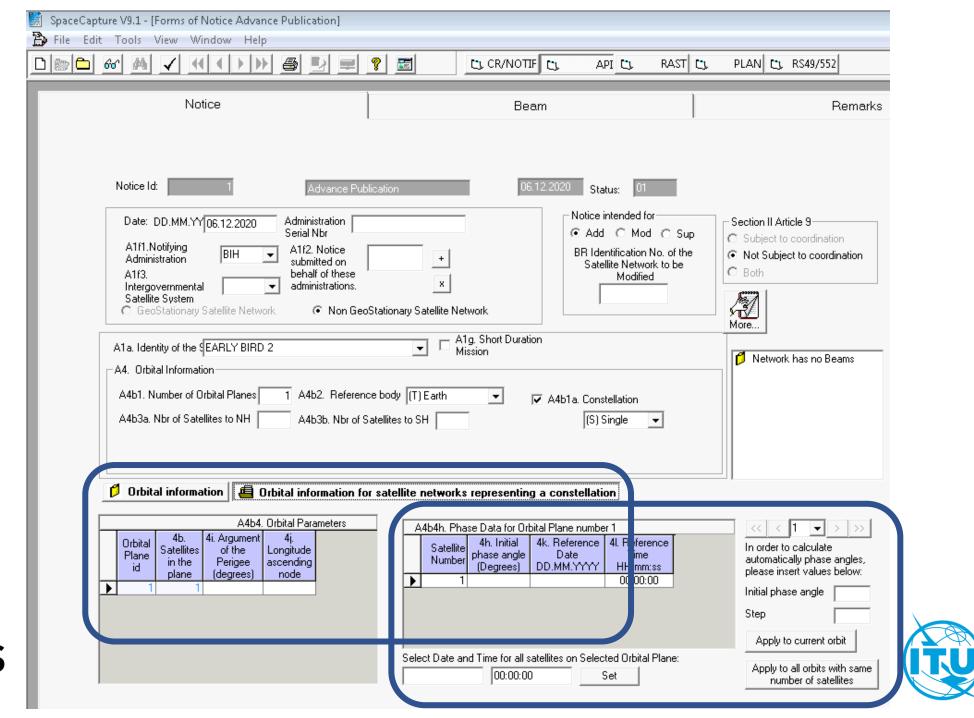




NGSO API

Constellation data

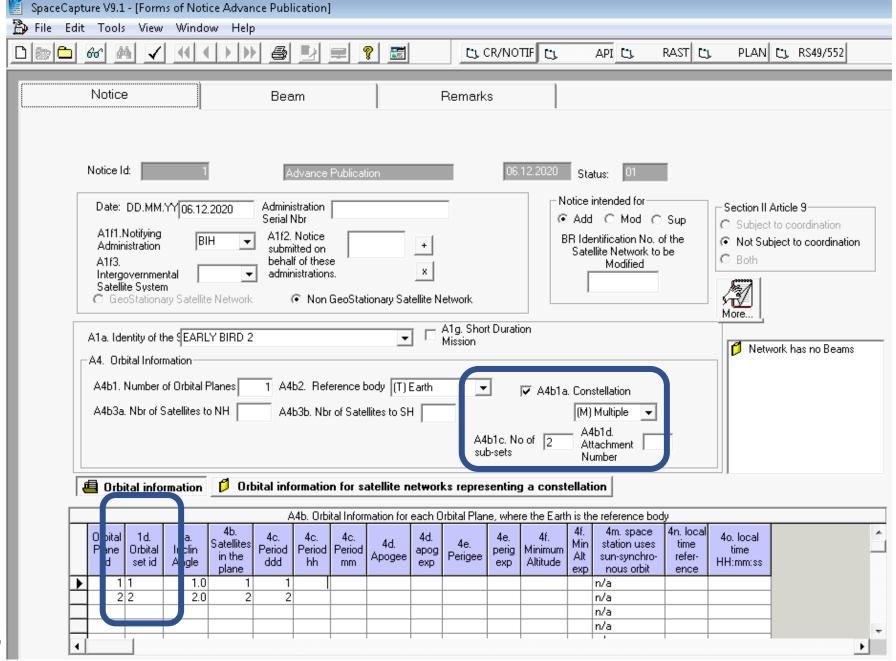
Phase information





NGSO API

Orbital set identifier







Changes for CR/C NGSO Orbital Information

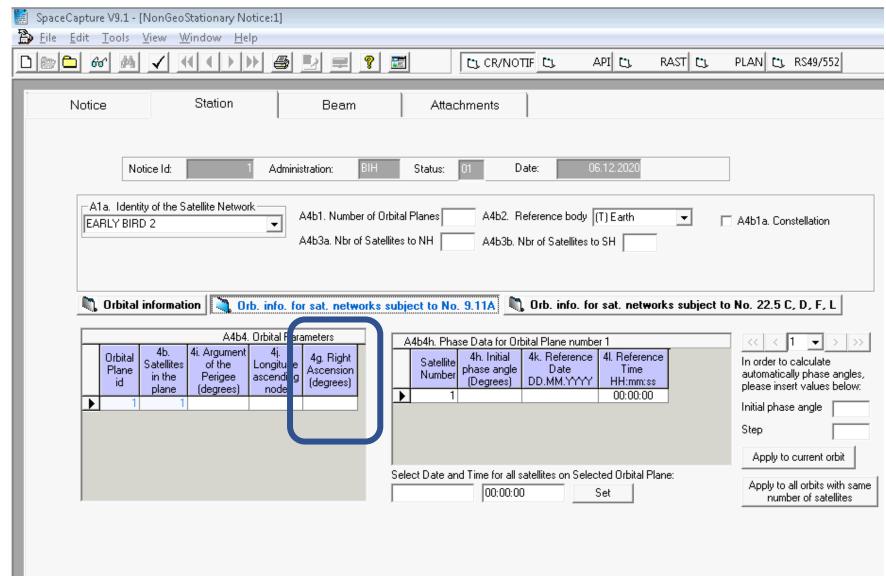
- Same changes as for NGSO API
- Certain data entry elements only appear for submission under 9.11A:
 - Argument of the perigee and longitude of the ascending node
 - Phase information
 - Right ascension of the ascending node
 - Station keeping details
 - Precession details
 - Longitudinal tolerance of LAN





NGSO CR/C 9.11A

Right ascension

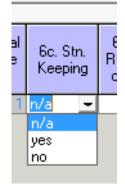


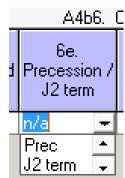




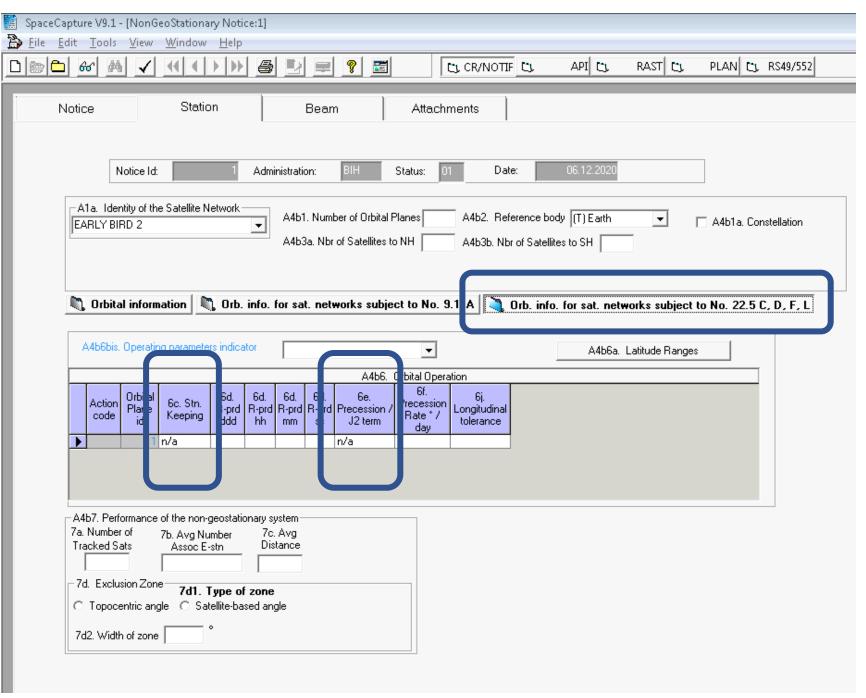
NGSO CR/C 9.11A

Station keeping etc.











Changes for Notification NGSO Orbital Information

- Same changes as for NGSO API and NGSO CR/C, except for:
 - Constellation details

- The present is only a partial list of changes coming in SpaceCap v9.1
 - Further improvement of conditional data item display logic (sun-synchronous)
 - Service area changes
 - Coordination agreements capture wizard (network level agreements)
 - RoP 4.4 commitment





Thank you!

ITU - Radiocommunication Bureau

Questions to brmail@itu.int or brsas@itu.int



