

-43.4668°

170.1882°

# Monthly Intelsat ESO Update

Tom McNamara | VP, C-Band Transition Management

15 July 2021

# Phase 2 Transitions in 2021

Start	Duration (Days)	End	Change	Customer	Sat-Trx Start	Lower Freq. (MHz)	Upper Freq. (MHz)	Sat-Trx End	Lower Freq. (MHz)	Upper Freq. (MHz)	Technology
01-Apr-21	90	30-Jun-21	S, F	Disney	G-17 17C	4022	4058	G-30 11C	3902	3938	
01-Apr-21	90	30-Jun-21	C, S, P, F	Disney	G-30 14C	3962	3998	G-18 24C	4162	4198	HEVC
01-Apr-21	90	30-Jun-21	F	Overon	G-23 24C	4162	4198	G-23 22C	4122	4158	
01-Jul-21	90	30-Sep-21	C, S, F	Sinclair	G-13 13C	3942	3978	G-17 08C	3842	3878	HEVC
01-May-21	122	31-Aug-21	C	FoxCorp	G-16 19C	4062	4098	G-16 19C	4062	4098	HEVC
01-May-21	122	31-Aug-21	C	FoxCorp	G-3C 18C	4042	4078	G-3C 18C	4042	4078	HEVC
01-May-21	122	31-Aug-21	C	FoxCorp	G-3C 19C	4062	4098	G-3C 19C	4062	4098	HEVC
01-Jul-21	90	29-Sep-21	C	Disney	G-18 22C	4122	4158	G-18 22C	4122	4158	HEVC
01-Jul-21	90	29-Sep-21	C, S, P, F	Disney	G-30 09C	3862	3898	G-18 23C	4142	4178	HEVC
01-Jun-21	210	28-Dec-21	C, F	Discovery	G-13 22C	4122	4158	G-13 24C	4162	4198	AVC
01-Oct-21	90	30-Dec-21	C, S, F	Disney	G-30 07C	3822	3858	G-18 22C	4122	4158	HEVC

- Phase 2 Migrations are ongoing:
  - Sinclair** has one transition left that impacts MVPDs – the move of Tennis and Marquee channels from G13-13C to G17-08C
  - Fox Broadcast** moves are already underway and continue through Aug
  - Discovery** shipping equipment and under an extended dual illumination

# Quarterly Report and PN update



## No material changes and clarification for the official record

### ▪ Quarterly report

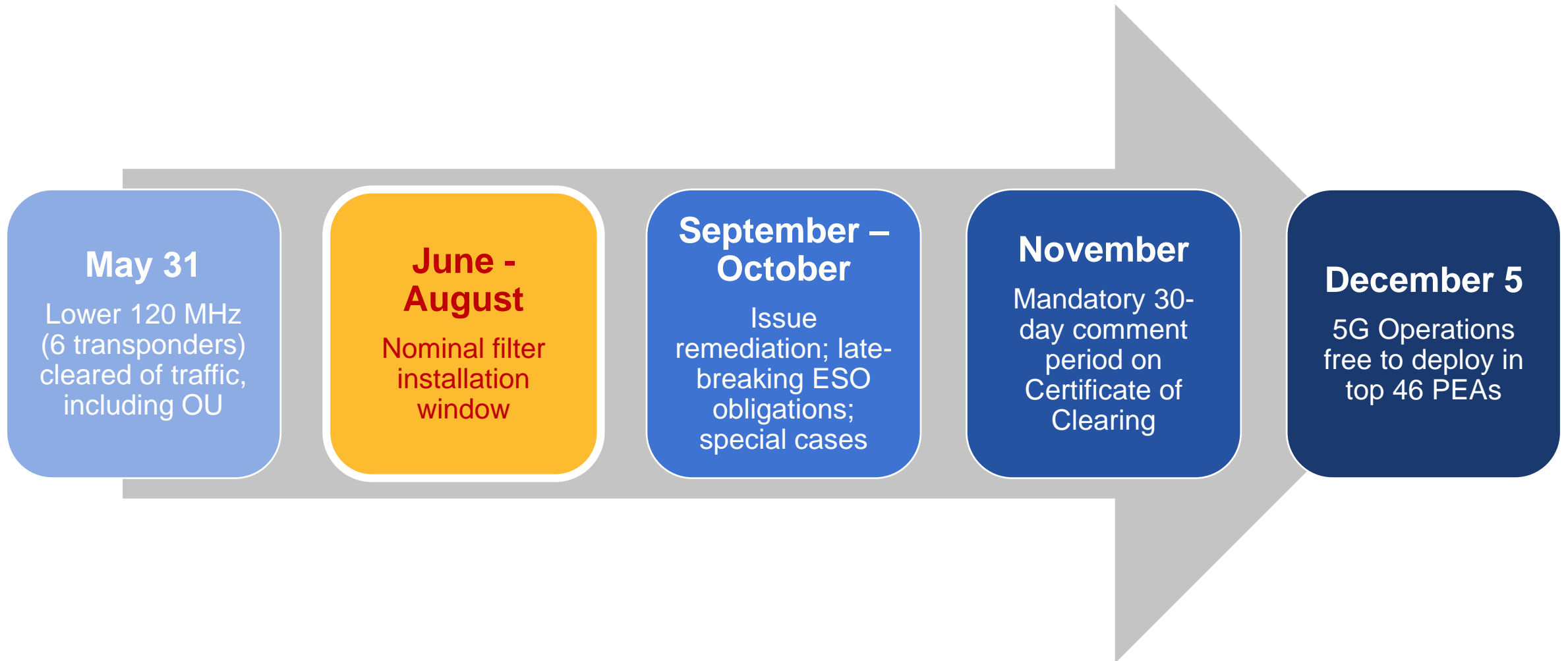
- Confirmed that the space migrations required for Phase 1 are complete
- Closed out Disney, Sinclair, and Fox transitions that were due June 30<sup>th</sup>
- Reaffirmed that we are on target for teleport and satellite builds and expect to complete filtering in Q3

### ▪ Public notice regarding multi-feeds and changes to earth station claims

- The FCC order does not contemplate the use of multi-feed antennas
- After highlighting to them that multiple operators could claim the same “earth station” based on their language, the FCC wanted to clarify direction that SSO are responsible for all FEEDS pointed at their satellites
- In addition, the FCC did not account for the need to continue to update earth station claims throughout the process
- In the PN they asked satellite operators to clarify and document the rationale for claiming and unclaiming earth stations throughout Phase 1
- Our filing simply explains the accounting and passing of ownership between operators (primarily Intelsat and SES), but there’s nothing new that requires investigation by the ESOs

# Phase I Clearing Deadline

Clearing by December 5, 2021 deadline requires filtering completion this Summer



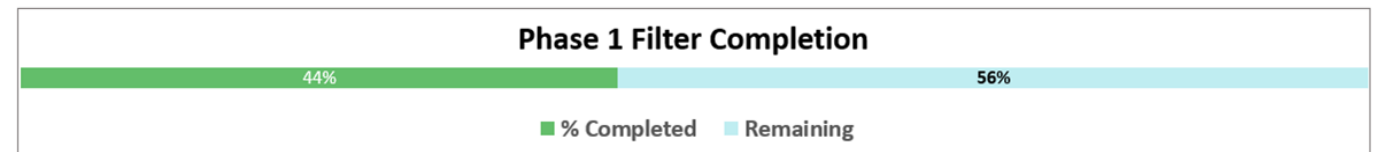
# Filter Installation – Incumbent E/S



Ended June on pace for August completion for majority of filtering

- We've scheduled 70% of Phase I sites, 44% completed
- Minor impacts from FCC's updated incumbent list absorbed into our plan
- Some international downlink filtering will be done in September (IS-11, IS-21, IS-34), where terrestrial solutions required
- Reminder that domestic downlink of content in lower 6 transponders no longer permitted for non-lump sum opt-outs to allow for filtering – please contact us if impacted ([CBandInfo@intelsat.com](mailto:CBandInfo@intelsat.com))

YTD Phase I Filtering Summary												
Vendor	Total Sites	Total Incumbent Antennas	Pending Work Order	Not Scheduled	Scheduled		% Scheduled		Completed		% Completed	
					Sites	Incumbent Antennas	Sites	Incumbent Antennas	Sites	Incumbent Antennas	Sites	Incumbent Antennas
USSI	132	557	0	18	114	468	86%	84%	82	312	62%	56%
Wesco	337	1061	51	15	271	771	80%	70%	158	316	47%	30%
ATCi	54	90	0	25	29	56	54%	62%	24	42	44%	47%
Self-Install	65	101	0	64	1	9	2%	9%	0	0	0%	0%
Other	6	30	0	3	3	12	50%	40%	0	0	0%	0%
<b>Total</b>	<b>594</b>	<b>1839</b>	<b>51</b>	<b>125</b>	<b>418</b>	<b>1316</b>	<b>70%</b>	<b>72%</b>	<b>264</b>	<b>670</b>	<b>44%</b>	<b>36%</b>



# Filter Installations – Lump Sum Electors (redux)



## Filters for Top 46 out of 50 PEAs should be installed by December 5<sup>th</sup>

- Do I need to filter now?
  - If your antenna(s) are in one of the Top 46 out of 50 PEAs, you need to filter by Dec 5<sup>th</sup>, 2021 or your signal could receive interference by 5g operations
  - If your antenna is located anywhere other than the top 46 PEAs and their surrounding areas\*, you do not need filters until 2023
- Which filter do I need?
  - If you receive services in the 3820-4000 MHz range on any particular feed, you need an interim “Red” filter installed on the antenna
  - In cases where you take services only ABOVE the 4000 MHz range, you can install an end state “Blue” filter
- Where can I get the Alga Microwave filters?
  - Red filter supply is tightening temporarily, please order your filters so you aren’t caught short.**
  - Satcom Resources
  - Wesco (formerly SEG)
  - Viking Satcom

To see if your earth station falls into the Phase 1 PEAs or surrounding areas visit: <https://intelsatbandtransition.com/faq/#ESF4>