

-43.4668°

170.1882°

Monthly Intelsat ESO Update

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03 June 2021

Phase 1 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	Complete?
01-Jan-21	30	31-Jan-21	F	Rignet	G-19 17C	4022	4058	G-19 05C	3782	3818		Y
01-Feb-21	30	03-Mar-21	F	Caracol / Intelsat MCPC platform	G-13 04C		3798	G-13 20C	4082	4118		Y
01-Feb-21	30	03-Mar-21	F	Mega Media / Intelsat MCPC platform	G-13 04C	3762	3798	G-13 20C	4082	4118		Y
01-Feb-21	30	30-Mar-21	F	BBC / Intelsat MCPC platform	G-13 04C	3762	3798	G-13 20C	4082	4118		Y
01-Feb-21	30	30-Mar-21	F	NHK / Intelsat MCPC platform	G-13 04C	3762	3798	G-13 20C	4082	4118		Y
01-Jan-21	90	31-Mar-21	C, S, P, F	Disney	G-15 02C	3722	3758	G-17 17C	4022	4058	HEVC	Y
01-Jan-21	90	31-Mar-21	C, P, F	Disney	G-17 02C	3722	3758	G-17 17C	4022	4058	HEVC	Y
01-Jan-21	90	31-Mar-21	C, P, F	Disney	G-17 10C	3882	3918	G-17 17C	4022	4058	HEVC	Y
01-Jan-21	90	31-Mar-21	C, F	Disney	G-30 11C	3902	3938	G-30 07C	3822	3858	HEVC	Y
31-Dec-20	90	31-Mar-21	C, F	FoxCorp	G-17 05C	3782	3818	G-17 21C	4102	4138	HEVC	Y
01-Jan-21	90	31-May-21	C	FoxCorp	G-15 10C	3882	3918	G-15 10C	3882	3918	HEVC	(blank)
01-Jan-21	90	31-May-21	C	FoxCorp	G-17 16C	4002	4038	G-17 16C	4002	4038	HEVC	(blank)
01-Feb-21	60	02-Apr-21	P, F	AT&T Sports	G-17 20C	4082	4118	G-17 11C	3902	3938		Y
02-Mar-21	60	01-May-21	P, F	ShopHQ	G-30 03C	3742	3778	G-30 22C	4122	4158		Y
01-Feb-21	90	02-May-21	S, F	Comcast/NBC-U	G-30 04C	3762	3798	G-18 19C	4062	4098		Y
01-Feb-21	90	02-May-21	S, F	IKO Media Group	G-23 24C	4162	4198	G-18 15C	3982	4018		Y
01-Feb-21	90	02-May-21	C, S, F	MLB	G-13 01C	3702	3738	G-18 21C	4102	4138	HEVC	Y
01-Feb-21	90	02-May-21	C, S, F	MLB	G-17 04C	3762	3798	G-18 21C	4102	4138	HEVC	Y
01-Feb-21	90	02-May-21	S, P, F	Trinity Broadcasting Network	G-30 01C	3702	3738	G-18 17C	4022	4058		Y
01-Mar-21	90	30-May-21	S, F	CenturyLink	G-23 04C	3762	3798	G-13 19C	4062	4098		Y
01-Mar-21	90	30-May-21	C, P, F	Sinclair	G-15 04C	3762	3798	G-15 21C	4102	4138	HEVC	Y
01-Mar-21	90	26-Jun-21	F	Sinclair	G-15 11C	3902	3938	G-15 21C	4102	4138		(blank)
01-Mar-21	90	26-Jun-21	F	Sinclair	G-15 12C	3922	3958	G-15 22C	4122	4158		(blank)
01-Mar-21	90	26-Jun-21	C, F	Sinclair	G-15 20C	4082	4118	G-15 22C	4122	4158	HEVC	(blank)
01-Apr-21	60	31-May-21	P, F	ATCI	G-16 06C	3802	3838	G-16 15C	3982	4018		Y
01-May-21	30	31-May-21	F	US Government	G-13 17C	4022	4058	G-13 05C	3782	3818		Y
05-Dec-19	548	05-Jun-21	C, F	NPR	G-16 01C	3702	3738	G-16 23C	4142	4178	Audio	Y
05-Dec-19	548	05-Jun-21	C	NPR	G-16 23C	4142	4178	G-16 23C	4142	4178	Audio	Y

Sinclair and Fox moves closing out in June; all lower 6 transponder moves have been completed

- All defective Sinclair/Synamedia units have been replaced at this point and no known additional issues
- Lower 120 MHz is clear as of this weekend – thanks for your continued support and efforts
- *Next up:* filters for all antennas in the top 46 markets

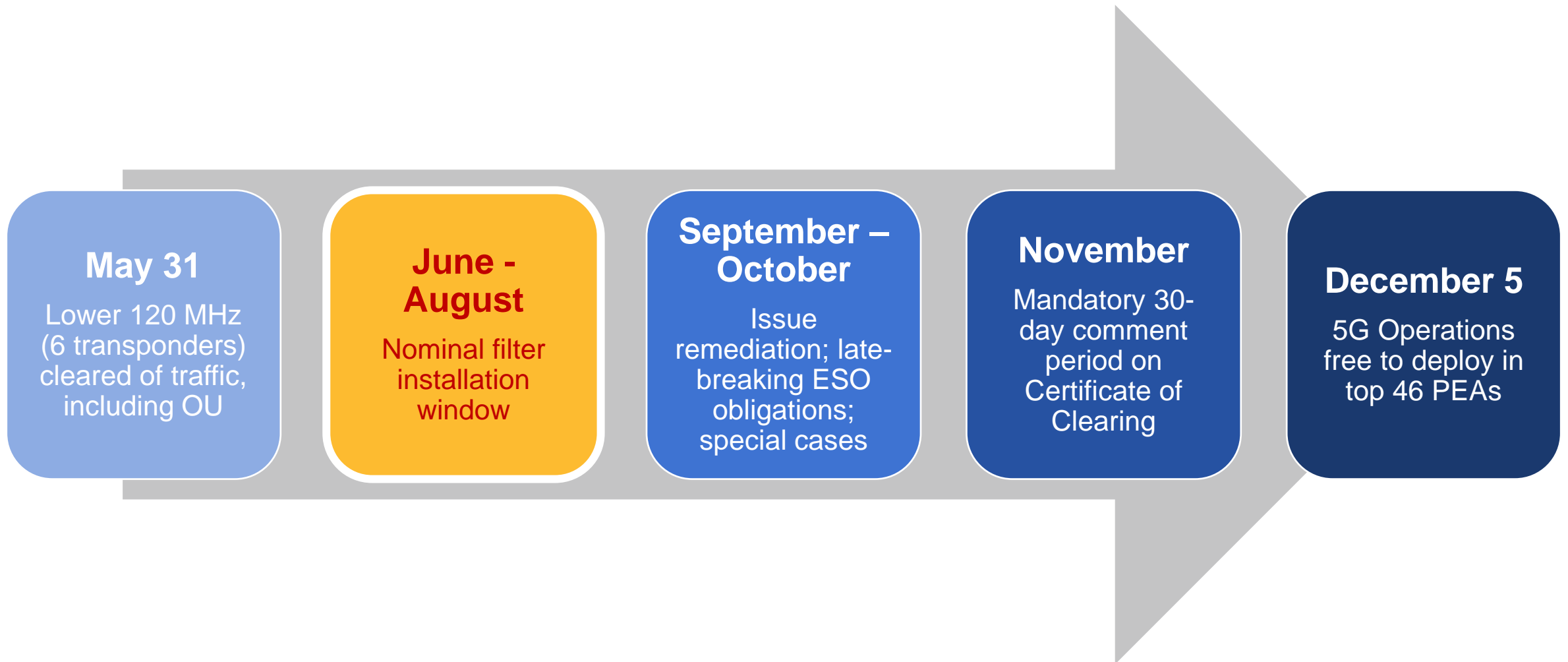
Phase 2 Transitions in 2021

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-Jun-21	90	30-Aug-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-Jul-21	90	30-Sep-21	C	Sinclair	G-17 08C	3842	3878	G-17 08C	3842	3878	HEVC
01-Jul-21	90	30-Sep-21	C, F	Sinclair	G-17 10C	3882	3918	G-17 22C	4122	4158	HEVC
01-Jul-21	90	30-Sep-21	C	Sinclair	G-17 15C	3982	4018	G-17 15C	3982	4018	HEVC
01-Jul-21	90	30-Sep-21	C	Sinclair	G-17 22C	4122	4158	G-17 22C	4122	4158	HEVC
01-Jul-21	90	30-Sep-21	C	Sinclair	G-17 23C	4142	4178	G-17 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 moves in red settling on a start date of July 1
- Note: Disney G-17 17C migration was added by Disney 2 months ago – IRDs were deployed for this move already and this move requires a cabling change
- Fox Broadcast moves are already underway and continue through Aug
- Discovery beginning to ramp up, equipment is starting to ship

Phase I Clearing Deadline

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

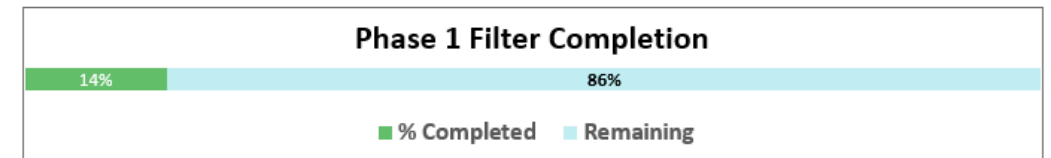


Filter Installation – Incumbent E/S

Scheduling for Phase I filters is well underway

- Filters must be installed in Phase I PEAs (46 of the top 50) to mitigate against the risk of future interference from 5G operations.
- The response from the E/S community has been very good to date
 - ~40% of all sites have been scheduled and 14% completed
- Installations are underway, a few asks along the Golden Rule lines:
 - We want a positive experience for everyone and to get the work done with as little disruption as possible
 - We can do overnights, tight windows where necessary but we ask for reasonable accommodations
 - Please advise us of known peripherals – lighting, generators, lift trucks
 - Realistic windows to do the work and swing antennas where possible

YTD Phase I Filtering Summary (Sites)							
Vendor	Total Sites	Pending WO-Not Submitted	Not Scheduled-Submitted	Scheduled	% Scheduled	Completed	% Completed
USSI	135	13	28	94	70%	0	0%
Wesco	350	95	111	144	41%	84	24%
ATCi	53	0	48	5	9%	0	0%
Self-Install	58	57	1	0	0%	0	0%
Other	6	6	0	0	0%	0	0%
Total	602	171	188	243	40%	84	14%



Filter Installation Day



Expectations and best practices

Our goal is to minimize the inconvenience and any service disruptions through the filter installation process. This process can take 2 or more hours per antenna. We have found the following best practices can optimize our time on-site and lead to less service risk for you and your customers.

- POC should be onsite for duration of filtering for each day – this will help us minimize any service disruptions and ensure that we're able to address any questions or issues in real-time
- POC should confirm pointing (satellites) and service details for each antenna prior to USSI's arrival
- POC should do a walk through with USSI team at beginning (or on the scheduling call) to advise on faulty and questionable equipment so we can address it
- POC must review and sign-off on completed filtering work, clearly identifying any remaining issues

Filter Installations – Lump Sum Electors (redux)



Filters for Top 46 out of 50 PEAs should be installed by December 5th

- 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 5th, 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?
 - 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>