

-43.4668°

170.1882°



C-band Customer Update

Intelsat

07 April 2021

Please ensure you are on mute

You can raise questions via the CHAT function

Agenda

1. Situational summary
2. FCC update
3. Earth Station Update
4. Galaxy fleet in-orbit restoration summary
5. Questions

Situational summary



- Petitions for reconsideration filed by Intelsat and industry – no decision yet
- ISED is still deliberating



- Intelsat filed Q1 2021 program update to FCC
- Relocation coordinator and clearinghouse now engaging in process
- Working committees winding down



- Galaxy 30 in-service
- Intelsat antenna installations advancing

FCC Update

Auction 107 Ends

- Auction 107 concluded on **February 17** with the completion of the assignment phase
- Collectively, 21 bidders offered to pay over \$81 billion for 5,684 flexible use licenses.
- On February 24, FCC issued a Public Notice identifying the winning bidders and set deadlines for payment and for the filing of long-form license applications.
- Winning bidders' license applications were due by 6 p.m. ET on **March 10**. The quiet period ended at that time.
- On **April 2**, the FCC issued a Public Notice announcing that it accepted 21 license applications filed for auction 107 licenses for pre-grant review. Any petitions to deny are due by **April 12, 2021**.

FCC Update, cont'd.

Incumbent Earth Station List Cleanup Continues; Second Quarterly Progress Reports Filed

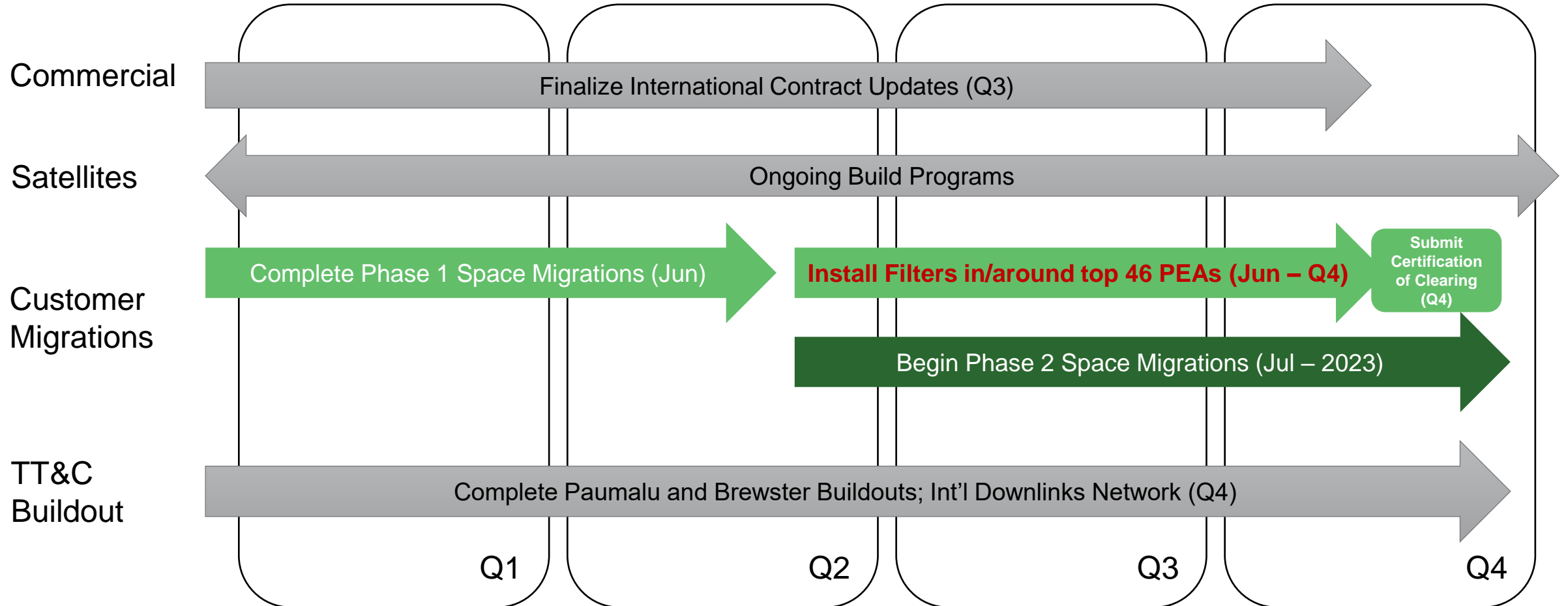
- Earth station operators identified in the January 19 Public Notice as having not responded to outreach or having inactive antennas must respond to the FCC by **April 19** affirming that the identified earth stations continue to be operated; failure to do so will result in **automatic termination of the antenna in IBFS** and removal from the incumbent earth station list.
- Satellite operators' second quarterly progress reports were filed at the end of March. The Relocation Coordinator's second progress report is expected to be filed shortly.

Overview



- Quarterly report submitted last week
 - Overall program **remains on track**; On target to meet the Dec 5, 2021 milestone
 - Satellites progressing to schedule; mitigating supply chain concerns
 - TT&C Consolidation remains on target; Andover design complete, construction about to start
- Customer transitions progressing largely to schedule
 - A few minor changes articulated in the plan; none jeopardize the phase 1 milestone
- Filtering for ESOs in the top 46 PEAs begins June 1
 - All migrations out of the lower 6 transponders will be completed by May 31
 - USSI and Wesco to scheduling filter installs beginning in May
- Please send us questions/concerns/affiliate complaints so we can address them
 - If you have concerns about your Tx/Rx antennas and the ability to filter, please contact us so we can look at it early
- Contact the ground clearing team any time at: cbandinfo@intelsat.com

Additional 2021 Critical Activities



Ground segment update

Intelsat filtering and antenna activity



Antenna seeding & replacements **on track**; scheduling begins filter activities in May

▪ Antenna Seeding & Replacements

- Galaxy 18 antenna seeding nearing completion
- Focus has shifted to proactive replacement of antennas expected to have insufficient performance post-transition

▪ Compression

- IRD deployments on track to affiliates of customers performing technology upgrades

▪ Earth Station Filtering

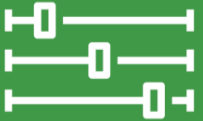
- Early filtering in progress for affiliates of customers who already operate “above the line”
- **Filtering for earth stations in the Top 46 PEAs will begin June 1**
- Scheduling calls will begin in May
 - **USSI:** MVPDs
 - **Wesco:** Broadcasters, Teleports, other non-cable
 - **ATCi:** Simulsats
- Planning jointly with SES for shared sites to do our best to minimize inconvenience for earth stations

Galaxy fleet in-orbit restoration continuity

Summary of upcoming meeting



Complying with FCC order dictates new payload designs – Reserve Transponders not feasible
Historically, use of spare equipment + Reserve transponders provided redundancy of 33%-41%
New payloads rely on spare equipment only, but at similar redundancy levels of ~40%



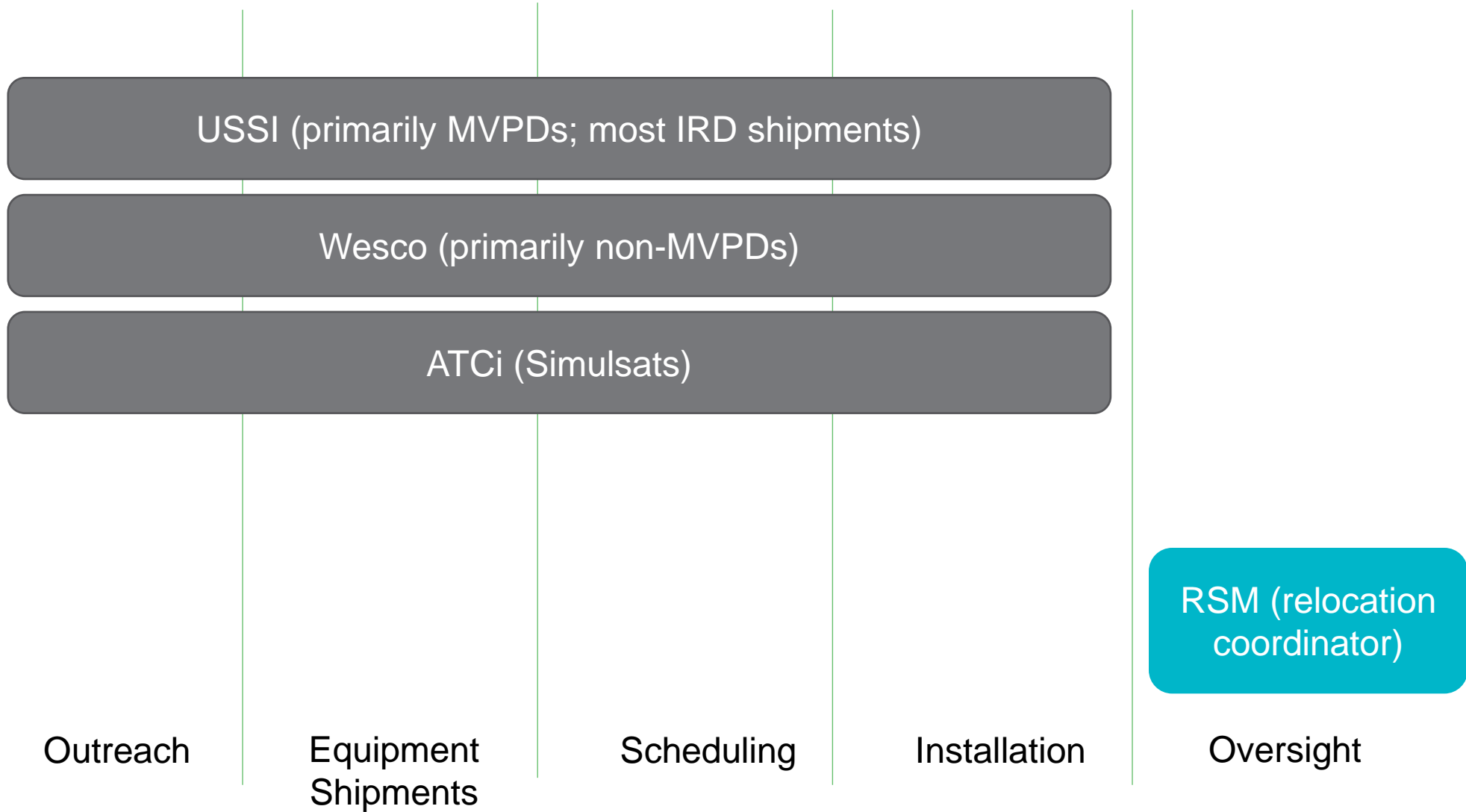
Galaxy Assurance at 121°W will move to 129°W (G-34) in Q1 2023
Customers consulted – a “go to” at 129 WL was preferred solution
During spectrum clearing, protection transponder mapping will follow customer moves



Spare equipment will “come to” failed units (as opposed to “go to” Reserve)
In-orbit restoration for payload failures is simplified
Updated restoration plans will be provided for all Galaxy Assurance customers

Appendix

Who's who in the zoo – Intelsat's vendors



Phase 1 city list

46 of these markets must have 120 MHz cleared by 05 Dec 2021

PEA	PEA NAME	STATE	Population	PEA	PEA NAME	STATE	Population
1	New York	NY	25,237,061	26	Las Vegas	NV	2,151,455
2	Los Angeles	CA	19,410,169	27	Salt Lake City	UT	2,142,152
3	Chicago	IL	9,366,713	28	San Antonio	TX	1,999,689
4	San Francisco	CA	9,027,937	29	Jacksonville	FL	1,918,264
5	Baltimore	DC	7,842,134	30	Kansas City	MO	1,810,075
6	Philadelphia	PA	7,587,252	31	Indianapolis	IN	1,769,011
7	Boston	MA	6,776,035	32	Nashville	TN	1,748,445
8	Dallas	TX	6,452,472	33	Virginia Beach	VA	1,696,835
9	Miami	FL	6,291,880	34	Fresno	CA	1,676,476
10	Houston	TX	5,891,999	35	Austin	TX	1,628,809
11	Atlanta	GA	5,435,312	36	New Orleans	LA	1,622,143
12	Detroit	MI	5,137,479	37	Columbus	OH	1,582,917
13	Orlando	FL	4,562,642	38	Milwaukee	WI	1,555,908
14	Cleveland	OH	4,096,678	39	Oklahoma City	OK	1,446,527
15	Phoenix	AZ	3,817,117	40	Birmingham	AL	1,399,686
16	Seattle	WA	3,792,218	41	Syracuse	NY	1,371,959
17	Minneapolis-St. Paul	MN	3,390,091	42	Honolulu	HI	1,360,301
18	San Diego	CA	3,095,313	43	Charlotte	NC	1,327,006
19	Portland	OR	3,022,643	44	Rochester	NY	1,316,146
20	Denver	CO	2,789,669	45	Raleigh	NC	1,302,381
21	Tampa	FL	2,783,243	46	Little Rock	AR	1,275,690
22	Sacramento	CA	2,722,415	47	Brownsville	TX	1,264,091
23	Pittsburgh	PA	2,399,667	48	Harrisburg	PA	1,244,058
24	Saint Louis	MO	2,396,938	49	Albany	NY	1,222,542
25	Cincinnati	OH	2,196,428	50	Greenville	SC	1,220,968



Key milestones

Milestone Date	Milestone action
24 March 2020	Clearinghouse search committee first convenes
29 May 2020	Satellite operators file Accelerated Relocation Election
05 June 2020	Public Notice if 80% clearing super-majority met (if so – relocation coordinator committee is formed)
12 June 2020	Satellite operators file transition plans
13 July 2020	Window for stakeholder comments closes (on transition plans)
31 July 2020	Clearinghouse & Relocation Coordinator search committees announce choice (or alternate process)
14 Aug 2020	Satellite operators submit revisions to transition plans
08 Dec 2020	Auction begins
05 Dec 2021	Accelerated phase 1 deadline: 3700-3820 to be cleared in 46 top PEAs*
05 Dec 2023	Accelerated phase 2 deadline: 3700-4000 to be clear nationally
05 Dec 2025	Sunset of all FSS protection for 3700-4000