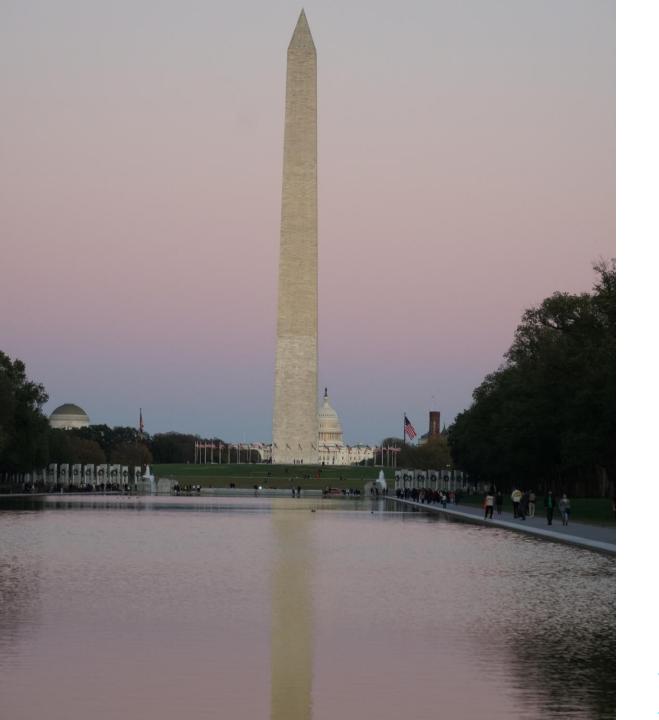


C-band Customer Update

Intelsat

01 Sept 2021





Agenda

- 1. Situational summary
- 2. FCC update
- 3. Earth Station Update
- 4. Questions

Please ensure you are on mute

You can raise questions via the CHAT function

Situational summary





- Initial invoices being submitted from various entities to clearinghouse
- Earth station database now final
- Canada C-band update from July meeting inserted as appendix to this deck



- Filtering of top 46 PEAs started on 01 June 2021
- Initial target for all filtering was 31 August



- Intelsat TT&C consolidation/construction activities are on-schedule
- Spacecraft manufacturing schedule on-track for delivery of replacement satellites



FCC and Clearinghouse Updates

Tom McNamara

FCC Update



Continue to move toward clarity around closing out Phase 1

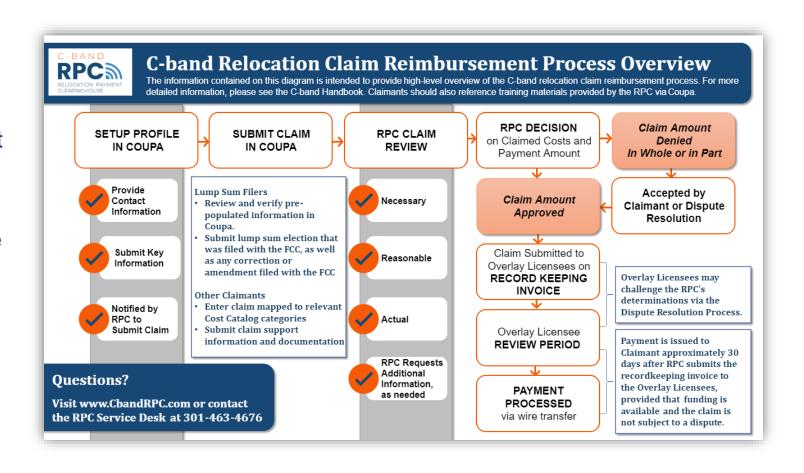
- Certification Public Notice issued on August 4th, 2021
 - Details the certification process for Phase 1 for Satellite Operators
 - Requires a full accounting of what has been done to complete the transitions and when
- Request for comments on challenge scenarios and impact on acceleration payments
 - Comments primarily from satellite operators and overlay licensees called for certainty and avoidance of trivial challenges
- Intelsat's certification is forthcoming date TBD
 - If you are part of Phase 1 and have any issues with your service or affiliates, we want to hear them ASAP
 - <u>cbandinfo@intelsat.com</u> or talk to your salesperson

Clearinghouse Update



Clearinghouse is open for business; Procedural hurdles still to clear

- Reimbursements of actual expenses and lump sum elections can be submitted through Coupa
- Reasonable, actual expenses must be incurred and deployed before you can submit
- Training resources available on the site
- Timeline for payments is still being determined
 - Overlay invoices
 - Payments
 - Procedural timeline still evolving





Ground segment update

Dave Miller

Filter Installation Update



Filtering on track to complete in September

- MVPD filtering completing this week focused on final issue remediation
- Non-cable filtering likely extending into late September
- Terrestrial solution delivered for international downlinks – scheduling filter installation at applicable earth stations to after migration of services
- Working with earth station operators, Relocation Coordinator and FCC to modify/surrender licenses and cleanse Incumbent Earth Station list

YTD Phase I Filtering Summary (Sites)												
Vendor	Total Sites	Total	Pending	ork Scheduled	Scheduled		% Scheduled		Completed		% Completed	
		Incumbent Antennas	Work Order		Sites	Incumbent Antennas	Sites	Incumbent Antennas	Sites	Incumbent Antennas	Sites	Incumbent Antennas
USSI	162	783	3	5	154	740	95%	95%	148	670	91%	86%
Wesco	296	856	2	13	281	798	95%	93%	259	697	88%	81%
ATCi	52	83	0	1	51	79	98%	95%	49	75	94%	90%
Self-Install	17	51	0	0	17	51	100%	100%	13	37	76%	73%
Other	57	83	0	1	56	79	98%	95%	17	30	30%	36%
Total	584	1856	5	20	559	1747	96%	94%	486	1509	83%	81%

Phase 1 Filter Completion	
83%	17%
■ % Completed ■ Remaining	

Phase I Clearing Deadline



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

May 31

Lower 120 MHz (6 transponders) cleared of traffic, including OU

June -August

Nominal filter installation window

September – October

Issue remediation; late-breaking ESO obligations; special cases

November

Mandatory 30day comment period on Certificate of Clearing

December 5

5G Operations free to deploy in top 46 PEAs



Thank you to all our programming partners for working with us through this journey!

Next call 06 Oct 2021



Appendix



Canada Update

Haz Moakkat

Canada – C-band decision highlights



no incentive, no compensation

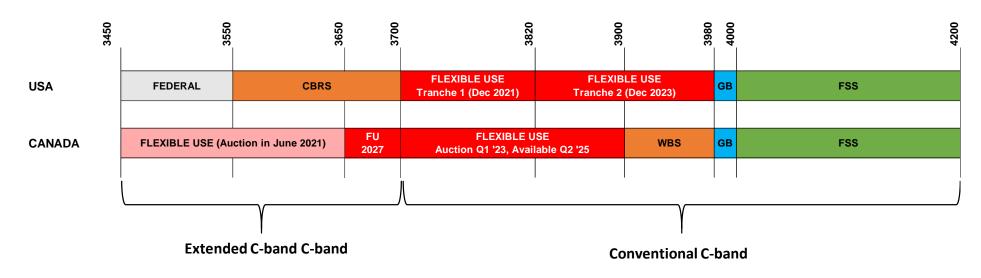
Key Highlights:

- Decision released on 21 May 2021
- No incentive, No compensation
- Telesat proposal was NOT adopted
- Band plan: similar to the FCC's (clear 3.7-4.0 GHz)
- Auction in Q1 2023 FSS must exit spectrum by 31 March 2025
- No technical rules yet but adopted 20 MHz guard band
- Further consultation on technical rules will be issued but no time frame
- Full C-band continues in Satellite Dependent Areas (Tier 4 areas) and designated gateway locations.
- FSS will continue to be protected up to 31 March 2025
- License-exempt earth stations will also be protected through an "interim authorization" but only if they are part of a network.



U.S. vs. Canada band-plan

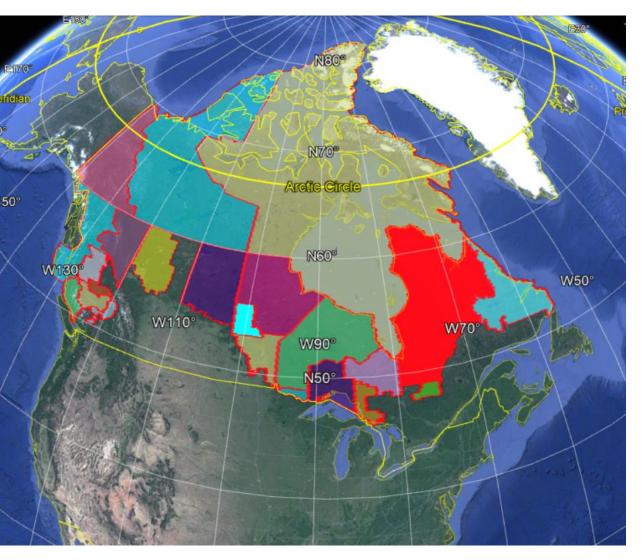




- Same band plan as the U.S.:
 - Clear 3700-4000 MHz
 - 20 MHz guard band 3980-4000 MHz
- All spectrum will be cleared in one go.
- However,
 - Only 3700-3900 MHz will be auctioned
 - 3900-3980 MHz will be licensed without auction to WBS

- WBS will be migrated from 3650-3700 MHz to 3900-3980 MHz
- No technical rules adopted (power levels, OOBE, etc.) – all of that will be decided in a future consultation





Satellite Dependent Areas as listed in Annex C

Satellite-Dependent Areas

- ISED decided that clearing of C-band will exclude Satellite Dependent Areas "SDAs".
- ISED designated certain areas (Tier 4) as SDAs.
- SDA have low density of earth stations based ISED data (see next slide)
- SDAs will continue to have access to the full Cband (3700-4200 MHz) and are NOT part of the clearing process.
- Some SDAs border the U.S. they will encumber U.S. indefinitely – Bilateral agreements between U.S. & Canada are needed.

C-band earth stations in Canada



C-band earth stations:

- Over 2500 license-exempt earth stations counted by ISED but not all are counted
- 56% of these earth stations are pointed at Intelsat satellites (primarily Galaxy 15 and Galaxy 19)
- CBC is completely supported on by Intelsat (364 sites across Canada)

Gateway sites:

- There will be a maximum of 4 gateway locations:
 - Weir, Quebec (55 miles NW of Montreal) → Tata Communications
 - Allan Park, Ontario (80 miles NW of Toronto) → Telesat
 - 2 x TBD locations
- Gateway sites to be used for TT&C and for content ingest for redistribution by fiber or terrestrial – ISED mandated that GW be available for collocation

