



VDLM2 Implementation Plan

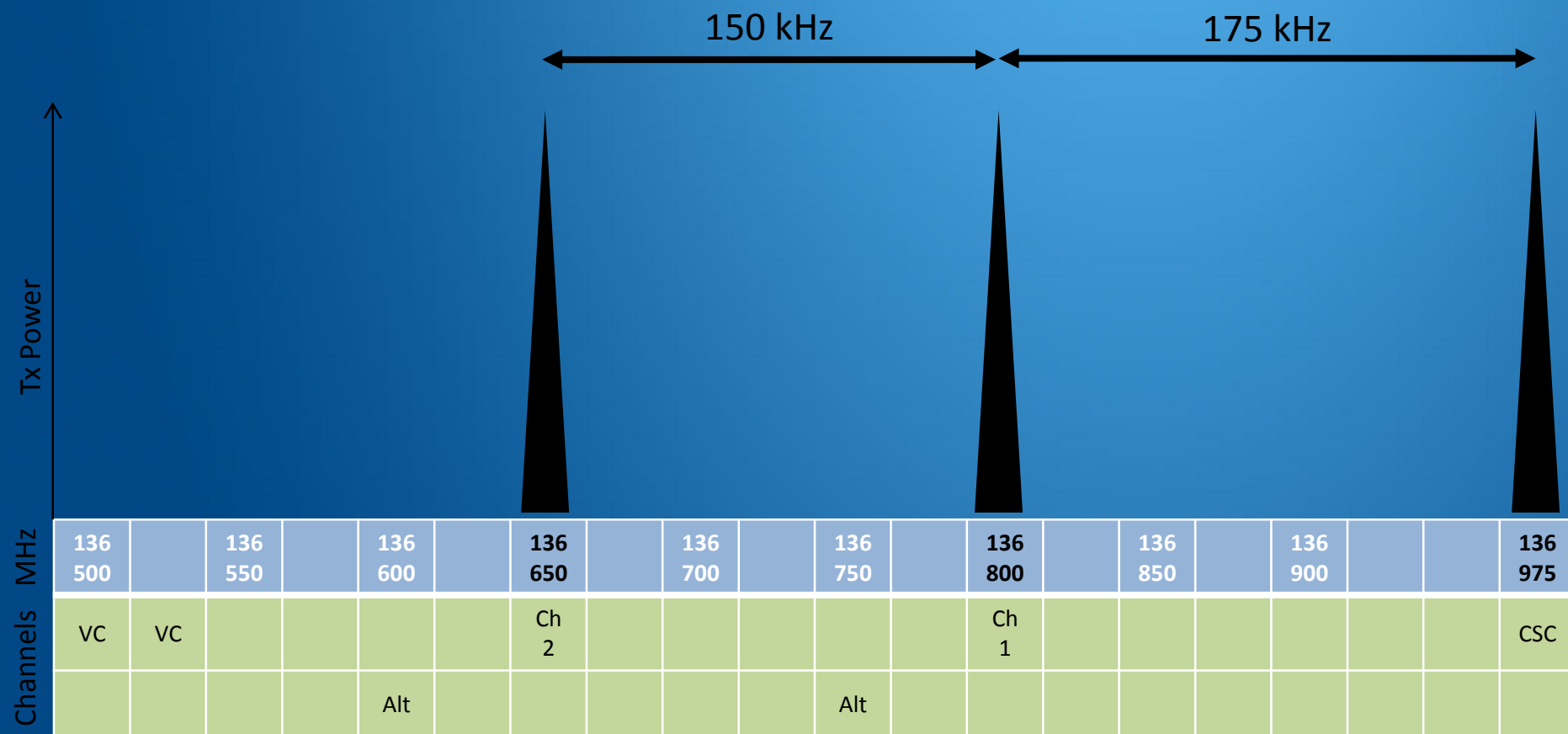
AFC Winter 2015

Background

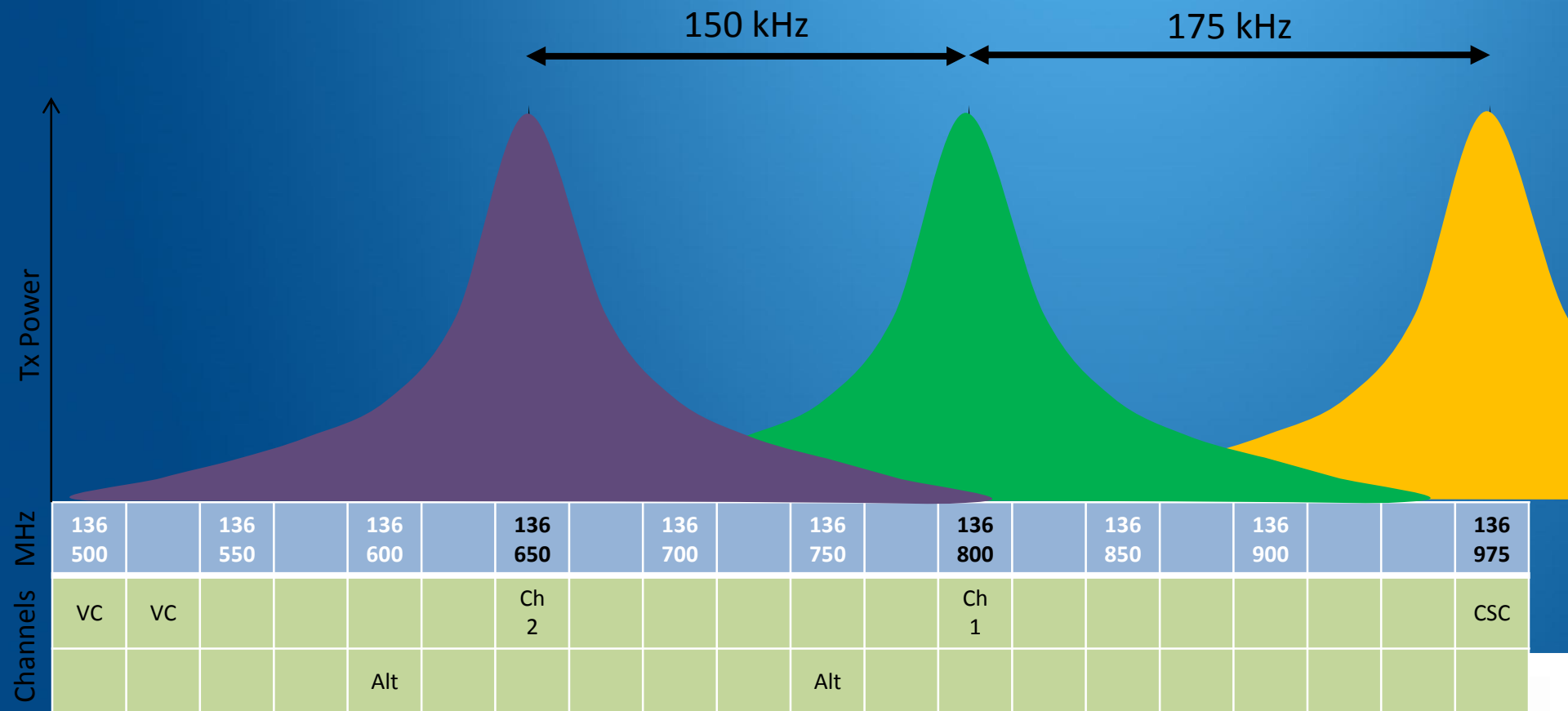


- ARINC/RC and SITA formally requested additional VDLM2 channels in 2014
 - Future capacity required for AOC data growth
 - DataComm service requirements
- AFC channel plan created in 2010 for VDLM2 networks
 - Utilizes the upper 136 MHz band
 - Dedicated frequency for each DSP
 - Options for additional capacity
- VDLM2 signal not compatible with adjacent assignments
 - VDLM2 co-site interferes with adjacent users

AFC Agreed VDLM2 Channel Plan



VDLM2 Co-site Coordination



Previous Meeting



- ASRI proposed an implementation method after working with both DSPs.
 - Assign new VDLM2 channels while minimizing impact on existing users
- Planning for 4 phase process from initiation on 1 Jul 2014
 1. Reorganize lower AOC voice users
 2. Migrate affected voice users from upper AOC
 3. Migrate ACARS networks
 4. Assign new VDLM2 frequencies

The Plan - Timeline



	2014		2015		2016		2017	
	07/01	01/01	07/01	01/01	07/01	01/01	07/01	01/01
136.575	ACARS	ACARS Migration**	Cleared					
131.725*	Clearing Voice	↪	ACARS					
136.650	ACARS	ACARS Migration**	VDLM2 ARINC/RC					
129.350	Cleared	↪	ACARS					
136.800	ACARS		ACARS Migration	VDLM2 SITA				
129.525	De-icing		↪	ACARS				
136.850	ACARS	ACARS Migration**						Cleared
131.725*	Clearing Voice	↪						ACARS*

*While consolidating 136.575 and 136.850 MHz into 131.725 MHz, any additional capacity assignments will be made on 131.650. This will be available from the 1 Jul 2015.

**Date and actions subject to change. Awaiting formal request by SITA before being approved.

Plan modification



- Proposal to split Phase 3 into two parts (A&B)
 1. Reorganize lower AOC voice users
 2. Migrate affected voice users from upper AOC
 3. *Migrate ACARS networks*
 - A. *Migration of ACARS assignments on 136.575, 136.650 and 136.800*
 - B. *Migration of ACARS on 136.850?*
 4. Assign new VDLM2 frequencies

Progress at March 2015



- AFC approved implementation of phases 1,2, & 3a to clear way for VDLM2
 - Migration of some upper band users
 - Some users are remaining in the lower 136 MHz band (reorganizing to ensure frequency separation from VDLM2 assignments)
 - Clearing voice users from 129.350, 131.650, & 131.725 MHz for ACARS movement
 - Movement of de-icing users from 129.525 MHz starting next season
- ASRI has notified all 113 affected voice users
 - Expected to complete by Apr 2015

Outstanding Work



- This meeting
 - Review Phase 3b options – SITA ACARS base freq move
 - Discuss WG for VDLM2 Spectral Planning
- Ongoing
 - Channel planning for 9 VDLM2 channels
 - Canadian Coordination
 - FAA coordination

SITA Presentation



- Consider SITA presentation
 - Hear airline views and questions
 - Decide if vote suitable at this time
 - AFC vote for Phase 3b?

Ad-hoc VDLM2 Spectral Coordination Group



- Proposed composition
 - FAA Data Comm Engineering/spectrum office
 - Harris
 - Rockwell Collins/ARINC
 - SITA
 - ASRI
- Charter
 - To ensure spectrum availability for Data Comm and efficient use of VDL-2 spectrum
- Schedule
 - Proposed to align with ASRI AFC meetings
 - Request near-term focus to support Key Topics
- Key Topics
 - Spectrum request criterion
 - Coordinated spectrum plans for both ASRI and FAA bands
 - Spectrum request process and time line
- Report back to AFC on a regular basis



Questions?