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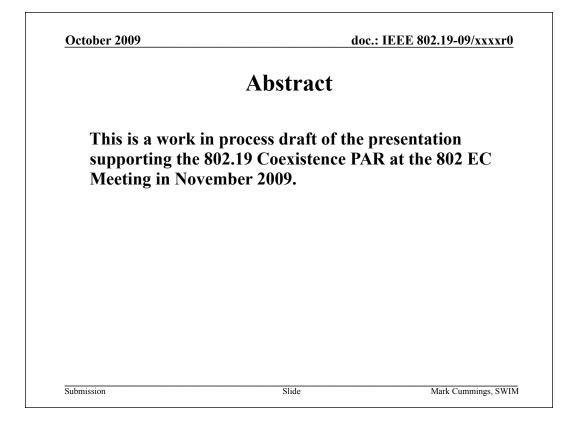
802.19 Coexistence PAR

Date: 2009-10-19

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	EE 802.19. It is offered as a basis for discussion and is not binding on the after further study. The contributor(s) reserve(s) the right to add, amend	
Submission	Slide	Mark Cummings, SWIM

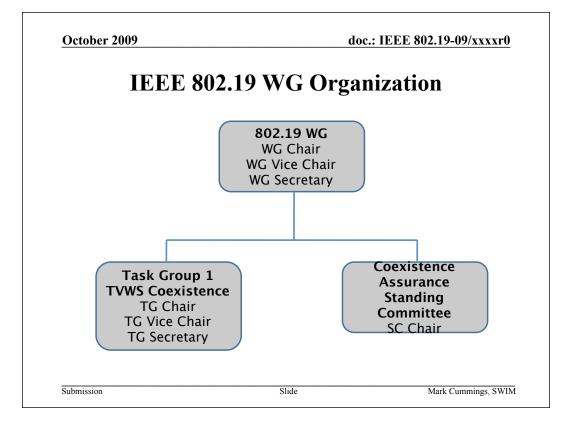


	TV White Space Opportunity
1	Regulators Are Opening Up New Spectrum By Allowing Special Access To Unused TV Channels
	 The US FCC Makes This Available Unlicensed
	- Other Regulators Have Proposed Combinations of Licensed and Unlicensed
	 Additional Spectrum Is Welcomed By 802
	The Spectrum Is Available to Support All 802 Wireless Standards
	 802.22 and 802.11 Are Working To Develop Standards To Address: Regulatory Requirements Perceived Use & Business Cases
	 Other 802 Groups May Follow
	Regulators Specify Means of Protecting "Incumbents" such as:
	- Broadcasters
	 Wireless Microphones
	- CATV Headends

	Coexistence Pr	ablam
	Coexistence Pro	obiem
Regulators All	ow All Users/Standards t	o Enter White Space
 If Different Us 		802 Standards Enter the
 For Example 	CSMA/CA & TDMA	
• Regulators Ar	e Leaving Coexistence Pr	oblem to Industry
- Speed Deplo	8	•
 Maximize In 	novation Over Time	
802 Solution		
 Initiate Stand Will Provide White Space 	a Good User Experience For	Coexistence Mechanisms That all 802 Standards Users in TV
 Make the 802 Standards Gr 	2 Coexistence Mechanisms A roups	vailable to non 802 Wireless

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	Coexistence S	Standard Intent
•	802 Standards Groups Such As – Control Own Destiny	
	 Develop Standards For TV White Regulatory Requirements Anticipated Use Cases Anticipated Business Cases 	e Space that Address:
•	TV White Space Coexistence Ta Mechanisms That Have the Abs	sk Group Develops Coexistence olute Minimum Possible Impact:
	- On the Implementation of the Un	derlying Standards
		e Are Not Different Users, Employing ume Channel In the Same Location
	 Spectrum Utilization When There 802 Standards In the Same Change 	e Are Different Users, Employing Different nel In the Same Location
	 System Overhead 	

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	Support	
• This PAR Is the Result Section of the 802 Com	Of a Long Process That Has Been Su munity	ipported By a Broad Cross
 TV White Space EG 	5 1	
 100 + Foil Preser 		
	pace Coexistence Study Group	
Coexistence Use		
 – 802.19 TV White S PAR 	pace Coexistence Study Group Extension	on & Authorization to Write
There Has Been Strong	Support For the Coexistence Study (Group
 Number of Substan 	tive Contributions:	-
 Attendance On the 		
 Attendance at Inter- 		
 Attendance at SF P 	lenary:	
• There Has Been Strong	Support For the Development of the	PAR
	ticipants In PAR Finalization in Hawaii	
 All Major Roles 	n Value Chain	
North America, A	sia & Europe	
 Larger Numbers of 	Active Participants Are Expected Once	PAR Is Approved
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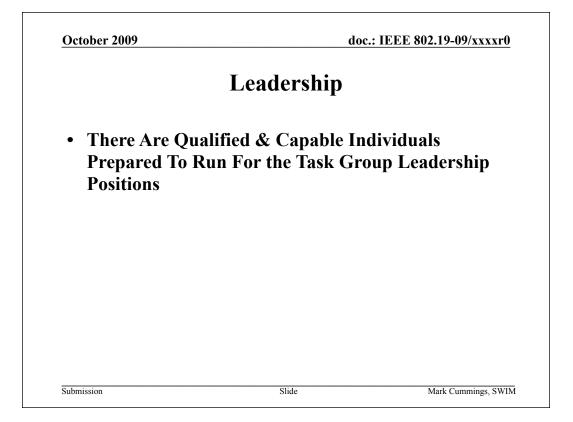


WG Organization

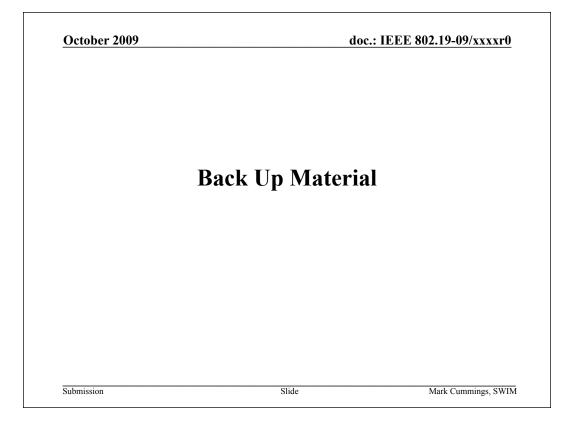
- The 802.19 WG will hold its first meeting at the January Wireless Interim (or March Plenary)
- The initial WG membership will be the union of the following two groups
 - The current 802.19 members
 - All those people who attend at least 75% of the first WG session as per the 802 Operations Manual Section 3.2.2.1

WG Organization

- WG Officers
 - Acting WG chair will be appointed by Paul Nikolich
 - Acting WG vice chair and acting secretary will be appointed by acting WG chair
 - WG Chair, vice chair and secretary elections will be held at the March Plenary session
- Task Group 1 Officers
 - Task Group chair, vice chair and secretary elections will be at the March Plenary
- Standing Committee Chair
 - Standing committee chair election will be at the March Plenary



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Relationship T	o Other Sta	ndards Efforts
 The Following Standa P1900.4a TC48-TG1 	rds Projects May	Prove Somewhat Helpful
 None of These Sta IEEE 802 Coexista 		he Full Solution To the
Other Groups Inside Work On TV White		g On or Preparing To
- 802.22 - 802.11		
		s These Efforts Can Not EE 802 Coexistence
iubmission	Slide	Mark Cummings, SWIN



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Coexistend	e Among T	V White S	Space Devi	ces Within	the Conte	ext of the L	IS FCC		
		WLAN	WPAN	WPAN	Fixed WWAN	Fixed WWAN	Cellular	Cellular	
			15.1	Other	802.22	Other	Macro Cells	Femto Cells	
WLAN									
WPAN	15.1								
WPAN	Other								
Fixed WWAN	802.22								
Fixed WWAN	Other								
Cellular	Macro Cell								
Cellular	Femto Cell								
*Protected									
This Table *It is Likel						Canada, N	etherlands A	ntilles, etc. n	ıles
	Full Coexistence Without Cooperation Partial Coexistence Without Cooperation Coexistence Requires Cooperation								