

**Project: IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs)**

Submission Title: [**Required modification in the current channel page definition**]

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Re: [In response to TG4g Call for Proposals]

Abstract: [SFF comment resolutions]

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# Summary

This document indicates a required revision in the current channel page definition as depicted in 00/007r1

- ChannelBand description shall include an additional PHY PIB attribute *phyChannelsAvailable* that indicates channel availability for each channel in the current channel band
- *phyChannelsAvailable* is a bit map of length equal to the number of channels in the current frequency band indicated by phyCurrentChannelBandName. For each bit in *phyChannelsAvailable*, 1=available, 0=unavailable
- Using this PHY PIB attribute, upper layer procedures such as SCAN work without modification in the framework of 15.4g
  - SCAN assumes channel list format to be scanned and to be reported

# Appendix: Situation in 950MHz band in Japan

- Five ChannelBands are assumed
  - ChannelBand: 950MHzGFSK50kbps(w/o FEC)
    - 33-length *phyChannelsAvailable*
  - ChannelBand: 950MHzGFSK50kbps(w/ FEC)
    - 32-length *phyChannelsAvailable*
  - ChannelBand: 950MHzGFSK100kbps
    - 32-length *phyChannelsAvailable*
  - ChannelBand: 950MHzGFSK200kbps
    - 31-length *phyChannelsAvailable*
  - ChannelBand: 950MHz4GFSK400kbps
    - 31-length *phyChannelsAvailable*

	Frequency (MHz)	50kbps (w/o FEC)	50kbps (w/ FEC)	100kbps	200kbps	400kbps
Index SFF950start+0	951.0	0	0			
50kbps (w/o FEC)	951.2	1	1	0		
Index SFF950start+1	951.4	2	2	1	0	
50kbps (w/ FEC)	951.6	3	3	2	1	
Index SFF950start+2	951.8	4	4	3	2	
100kbps	952.0	5	5	4	3	
Index SFF950start+3	952.2	6	6	5	4	
200kbps	952.4	7	7	6	5	
Index SFF950start+4	952.6	8	8	7	6	
400kbps	952.8	9	9	8	7	
	953.0	10	10	9	8	
	953.2	11	11	10	9	
	953.4	12	12	11	10	
	953.6	13	13	12	11	
	953.8	14	14	13	12	
	954.0	15	15	14	13	
	954.2	16	16	15	14	
	954.4	17	17	16	15	
	954.6	18	18	17	16	
	954.8	19	19	18	17	
	955.0	20	20	19	18	
	955.2	21	21	20	19	
	955.4	22	22	21	20	
	955.6	23	23	22	21	
	955.8	24	24	23	22	
	956.0	25	25	24	23	
	956.2	26	26	25	24	
	956.4	27	27	26	25	
	956.6	28	28	27	26	
	956.8	29	29	28	27	
	957.0	30	30	29	28	
	957.2	31	31	30	29	
	957.4	32				