July, 1995

July, 1995			Duratio	on/ID Encoding Doc: IEEE P802.11–95/
Impro	ved	ene	codin	g of Duration/ID field
field o	can bo ding The pr	e imp usag opose	p <b>roved</b> , je—iden ed encodi	in aspects of the Duration/ID , with no loss of functionality tification bits to this field. ng uses the most–significant bits to formation in the field.
	BIT 15	BIT 14	BITS 13-0	USAGE
	0	0	32767	Duration (microseconds from end of this frame)
	1	0	0	Contention free frames without a CID or an SID
	1	0	1 - 16383	Connection ID (CID) for TBS frames
	1	1	0 - 16383	Station ID (SID) in PS-Poll frames
		-		
July, 1995			Durati	on/ID Encoding Doc: IEEE P802.11–95/
	fits (	of th		on/ID Encoding Doc: IEEE P802.11–95/
• The e pair o	existir of con	ng Du nmui durin	nis im uration nicating ng the c	proved encoding /ID field is unambiguous to th g stations contention–free period, the
<ul> <li>The e pair of</li> <li>Howe Dura</li> </ul>	existir of con ever, ( tion/II	ng Du nmu durin D fiel	nis im uration nicating ng the c ld may	proved encoding /ID field is unambiguous to th g stations
<ul> <li>Bene pair of pair of Dura</li> <li>With</li> </ul>	existin of con ever, of tion/ll this e • Statio upon Durat	ng Du nmui durin D fiel encoo ns tha detect ion/ID	nis im uration nicating ng the c ld may ding: at miss that tion of DC value >32	Iproved encoding /ID field is unambiguous to the g stations contention-free period, the be ambiguous to other statio e CF-End frame can clear their NAVs F traffic, because <u>ALL</u> PCF traffic has 2767
<ul> <li>Bene pair of pair of Dura</li> <li>With</li> </ul>	existin of con ever, of tion/II this e - Statio upon Durati - NAV u frame - The (s	ng Du nmui durin D fiel encoo ns tha detect ion/ID update type/s slight)	nis im uration nicating ng the c d may ding: at miss the tion of DC value >32 s is simple subtype to risk is eli	ID field is unambiguous to the g stations contention-free period, the be ambiguous to other station contention-free period, the contention-free period contention station contention-free period contention-free period contention contention-free period contention-free period contention-free period contention-free period contentis contention-free period contention-free peri
<ul> <li>Bene pair of pair of Dura</li> <li>With</li> </ul>	existin of con ever, ( tion/II this e - Statio upon Durati - NAV u frame - The (s too hi - Conte	ng Du nmui durin D fiel encoo ns tha detect ion/ID update type/s slight) gh by ention	nis im uration nicating ng the c d may ding: at miss the tion of DC value >32 is simple subtype to risk is eli misinterp free period	ID field is unambiguous to the g stations contention—free period, the be ambiguous to other statio cF traffic, because <u>ALL</u> PCF traffic has 2767 er since stations do not have to decode o know if this field contains a duration

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July, 1995	Duration/ID Encoding	Doc: IEEE P802.11-95/13
Drawbac	ks to this improve	d encoding
No drawba	cks are apparent:	
Duration	is as long as 32767 microseconds	s can be represented.
the I	longest duration that needs to be PHY could handle a full–length M mentation) is about 20K microsec	SDU with WEP without
-	383 connections can be identified	
	far exceeds the practical number lable bandwidth of the wireless P	
-	383 stations can be identified per	
with	far exceeds the practical number a single access point.	
	far exceeds the number of power receive traffic advisories using th	
Presentation	Slide 3	Michael Fischer, Digital Oce
July, 1995	Duration/ID Encoding	Doc: IEEE P802.11-95/13
July, 1995 Motions	Duration/ID Encoding	Doc: IEEE P802.11-95/13
	Duration/ID Encoding	Doc: IEEE P802.11-95/13
Motions Motion #1 • That th field p and th	Duration/ID Encoding ne modified encoding for roposed in document 95/ e modified text on Duration be placed into the draft s	the Duration/ID 139 be adopted on/ID encoding in
Motion #1 • That the field period and the 95/139 Motion #2 NOTE: The the encodia	ne modified encoding for roposed in document 95/ e modified text on Durati	the Duration/ID 139 be adopted on/ID encoding in standard. is fully independent of Motion #2 can be
Motion #1 • That the field price of the field price of the second seco	ne modified encoding for roposed in document 95/ e modified text on Duration be placed into the draft s e subject matter of Motion #2 in ng used for duration values.	the Duration/ID 139 be adopted on/ID encoding in standard. <i>is fully independent of</i> <i>Motion #2 can be</i> <i>pted.</i> nt 95/139 that are calculated for ypes be adopted

Presentation

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Michael Fischer