The difference between DCF and EDCAF											
Consider DCF and ED	CAF STAs wanting to transmit, wit	h a third	d party sometim	nes making the	channel busy. Ir	n the example below, AIFS = DI	FS = 2 s	slots. Note the	different point t	hat channel acce	ess is won for the two
DCF											
Commentary	Medium busy (3rd party TX)	SIFS	DIFS slot 1	DIFS slot 2	Backoff slot 1	Medium busy (3rd party TX)	SIFS	DIFS slot 1	DIFS slot 2	Backoff slot 2	Transmit
Backoff counter (slots)	New backoff chooses value of 2	2	2	2	2	1	1	1	1	1	0
Notes	In DCF, the backoff counter is decremented at end of each idle slot following DIFS. As soon as it hits zero, channel access is won and the transmission begins.										
EDCAF											
Commentary	Medium busy (3rd party TX)	SIFS	AIFS slot 1	AIFS slot 2	Backoff slot 1	Medium busy (3rd party TX)	SIFS	AIFS slot 1	AIFS slot 2	Transmit	
Backoff counter (slots)	New backoff chooses value of 2	2	2	2	1	0	0	0	0	0	
Notes	In EDCAF, at slot boundaries followon.	owing A	IFS (including t	the one immedi	ately following A	IFS) either the backoff counter	decrem	ents, *or*, if tha	t counter is *al	ready* zero then	channel access is
Summary:	EDCAF is different to DCF - it is needs to suspend backoff.	ot simp	ly a generalisat	tion or enhance	ement. With all in	itial parameters apparently equ	al as in	the example al	pove, DCF will	fall behind by on	e slot each time it