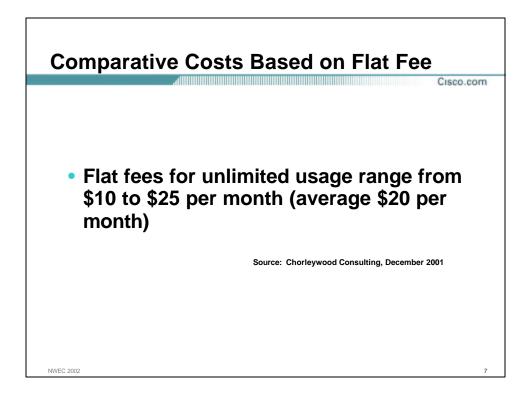


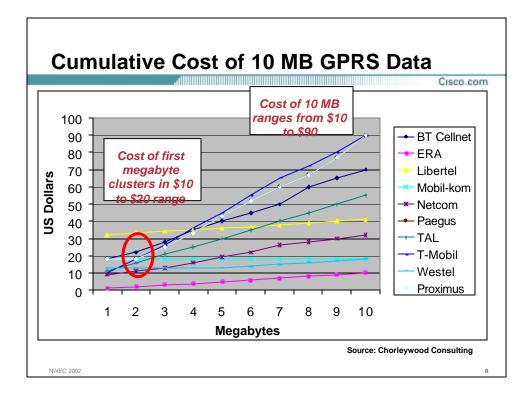
	Pros	Cons
Flat Fee		
	Easy to understand	Rule: 80 percent of resources used by 20 percent of customers
	Little impact on system	
	performance	Heavy users subsidized by regular users
	Generates predictable	
	revenues	Cannot profit from power users
	Low investment	Stimulate demand but not profit or effective use of spectrum

## **IP Billing Mechanisms**

	Pros	Cons
Jsage-		
based	· ····································	Consumers do not understand
	services based on volume or time	charging for bytes or packets
		Bytes or packets do not reflect
	Users pay only for what they use	value of service
	Leads to higher margins	

		Cisco
	Pros	Cons
Content-		
based	Account for the varying costs of content development	Different paradigm for user to comprehend
	Allow for charging based on consumers perception of the service value including timely or location-specific delivery	May be viewed as complex compared to flat fee
	Lead to higher margins and discriminative use of spectrum	
	True retail model allowing consumers to retain cost control	





											Cisi	co.com
_				Ту	pe of Cha	rge						
	User activity per month	Bytes	Subscrip- tion per month	Retail \$	Charge per Event	Per KB Charge	Total price to end user	Total price to adverti- ser	Alloca- tion to Opera-tor	Alloca- tion to Partner	Revenue to Operator	Revenue to Partne
1	Monthly network fee	-	\$5				\$5.00		100%	0%	\$5.00	\$0.00
2	Download of MP3 file #1	3,000,000			\$1	\$0.0010	\$4.00		30%	70%	\$1.20	\$2.80
3	MP3 file #2 Premium	2,500,000			\$2	\$0.0015	\$5.75		30%	70%	\$1.73	\$4.03
4	Download of MP3 file #1	3,500,000			\$1	\$0.0010	\$4.50		30%	70%	\$1.35	\$3.15
5	Check e-mail	300,000	Free as part of subscription		-	-	\$0.00		100%	0%	\$0.00	\$0.00
6	Check stock quotes	400,000	\$2		-	\$0.001	\$2.40		50%	50%	\$1.20	\$1.20
7	Check e-mail	1,000,000	Free as part of subscription		-	-	\$0.00		100%	0%	\$0.00	\$0.00
8	Advertiser pushes entertainment ad	200.000	Recurring ad-			\$0.0017		\$2.34	100%	0%	\$2.34	\$0.00

_			1								Cisc	o.com
	User activity per month	Bytes	Subscription per month	Ty Retail \$	pe of Char Charge per Event	rge Per KB Charge	Total price to end user	Total price to adverti- ser	Alloca- tion to Opera-tor	Alloca- tion to Partner	Revenue to Operator	Revenue to Partne
	Browse www.hikingboots.c om (partner site)	1,000,000	Free as part of subscription		No charge if partner site	\$0.0017	\$1.70		50%	50%	\$0.85	\$0.85
	Purchase of hiking boots (partner site)	100,000		\$112.00			\$112.00		9%	91%	\$10.08	\$101.92
11	Browse www.flowers.com (not a partner)	1,000,000			\$3	\$0.0025	\$5.50		100%	0%	\$5.50	\$0.00
	Purchase of flowers from www.flowers.com (not a partner)	100,000		\$80.00			\$80.00		0%	100%	\$0.00	\$80.00
13	Advertiser pushes computer ad	100,000	Recurring ad- space fee \$2			\$0.0017		\$2.17	100%	0%	\$2.17	\$0.00
14	Browse weather.com (partner site)	200,000			\$2	access for event charge	\$2 \$222.85	\$5	60%	40%	\$1.20 \$32.62	<u>\$0.80</u> <b>\$194.75</b>

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	Conte	ent Billing
	User Cost =	Operator Revenues =
	\$20.60	\$32.62 from network, retail and advertising
Average Flat Fee per month = 520 per subscriber	Perceived value to user without increase over Flat Fee	40% increase over Flat Fee revenues, without increasing cost to user
Average Volume-based tariff ber month = \$30 to \$40 per subscriber	User spends less than Volume-based tariffs	Comparable to Volume- based tariffs, without increasing costs to user

## Assumptions: Costs and Delta Revenues

4		Cisco.con
Costs for 25,000 to 1,000,000 Subscrib	ers	
Network elements required to record content information	17% of total	
IP billing/rating engine	55% of total	
Mediation platform	12% of total	
Systems implementation/integration	16% of total	
Total Costs	\$2.1M - \$8.4M	
	Yearly Difference in Revenues	
	Revenues @ \$20 monthly Flat Fee	\$ 20.00
	Revenues @ \$32.62 with Content-Billing	\$ 32.62
	Delta per month per subscriber	\$ 12.62
	Difference per Year per subscriber	\$ 151.44
Note: Costs used are very conservative and re	present the average to high end of possible prices for e	ach component.
NWEC 2002		

