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DISH Wireless: next-generation telco

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State of the US mobile market: the power of three

US mobile market in numbers

	2018		2019	X _	2020		2021	
Mobile subscribers (millions)								
AT&T	151,921		165,889	Υ	182,558		201,791	
T-Mobile	63,656		67,894		102,064		108,539**	
Verizon	94,507		94,544		94,373		115,395	
Others	111,709		114,130		89,994		68,590	
Total (CTIA data)	421,793		442,457		468,989		494,315*	
Mobile penetration (%)	129.1%		134.8%		141.3%		148.6%	
Mobile service revenues (\$ millions)								
AT&T	70,521		71,056		72,564		78,254	
T-Mobile	43,310		44,998		68,397		71,133**	
Verizon	64,223		65,383		64,884		67,733	
ARPU (\$/month)								
AT&T	38.7		35.7		33.1		32.3	
T-Mobile	56.7		55.2		55.8		54.6	
Verizon	56.6		57.6		57.3		48.9	

- Three mobile incumbents generating >\$200bn in annual revenues
- A renewed "network" focus from AT&T and Verizon
- An emerging wireless enterprise ecosystem.
- T-Mobile still positioned as "uncarrier" even though it is now an incumbent.
- Customer experience still lagging

The long road to Las Vegas

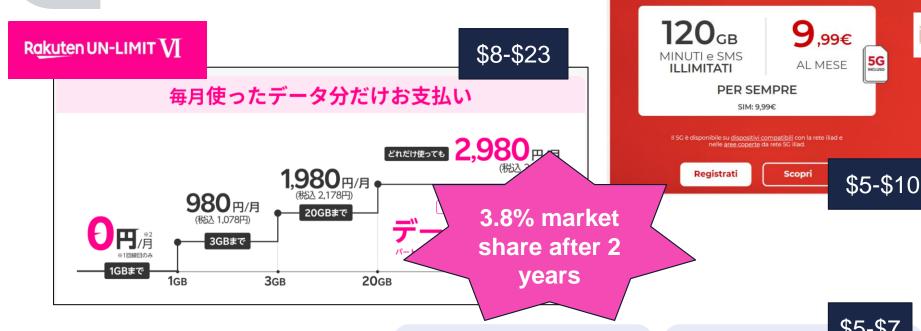
Our journey began with a bold idea: to bring TV to rural America.

DISH was founded on adventure and an unshakable desire to win. It's what drove us to launch satellites into space when people said we couldn't. To take on the world's largest industrial corporation when people said we shouldn't. And to connect millions of Americans to the TV they love when the cable companies wouldn't.





Fourth operator lessons from Japan, India and Italy



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DATA

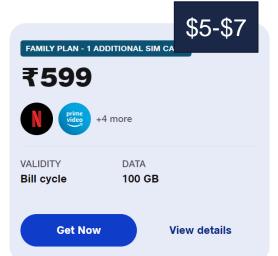
75 GB

View details

34% market

share after

4 years





10% market

share after 4

years

GIGA 1ZU

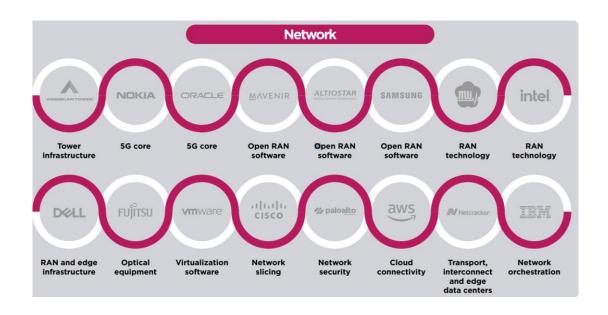
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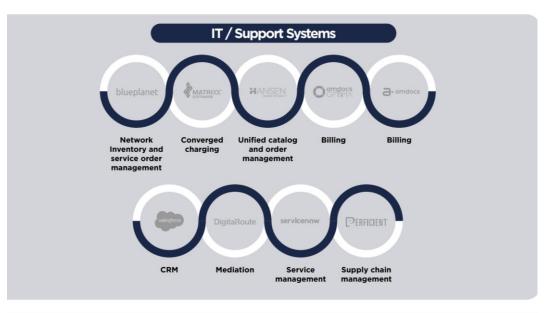
The enterprise market: giving customers what they want

- Targeting a 20% share of a \$30 billion market
- Three enterprise models: spectrum, network design and a slice of the network
- An edge-ready network
- Wholesale and MVNOs? Resellers? Partneships?
- Learning from an unsuccessful foray into IoT
- Giving enterprises what they want, including subscriber management?



Forging a new approach to technology and vendor relationships

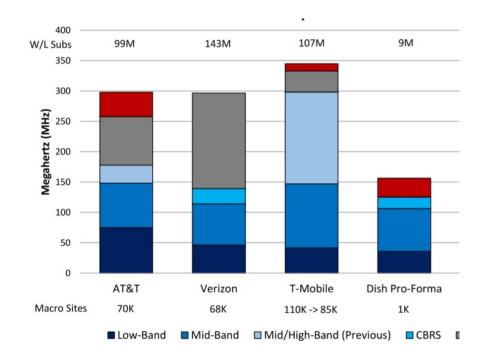






Forging a new approach to technology and vendor relationships

- The third way: sourcing R&D from the ecosystem.
- Building in the cloud: an AWS cloud and a VMWare cloud
- Making open RAN a reality
- Making the best use of an unusual spectrum portfolio
- Delivering on automation
- Standards, features and cost implications
- An asset-light business model
- A devolved approach to systems integration
- No more operator labs



An open, modular approach to support systems

"Every component needs to be a unique entity that can stand on its own..[it must not] try to take on too much we're not, we're not replicating data across all these different platforms."



- "I want the keys to the platform..everything we do is put into a sandbox first...we do all the configuration and testing..., we need ownership and control."
- "Everything we do is catalog-driven...I consider the catalog to be at the heart of everything we're doing.
- "Whatever we're building internally, we also have the mindset that we could expose it externally."







Make it Happen

- Customer experience: the only real differentiator in a commoditized consumer market?
- Building the right channels in B2B and becoming the connectivity partner of choice
- A sustainable approach to systems integration.
- Carrier aggregation and the right choice of devices
- Delivering on the vision to ensure the business gets fully funded
- Managing opex

Discussion and Q&A

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