

Promise introduction

Value, not volume
Transform storage device provider to solution provider

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Industry Trend and Opportunities



- Promise's Global Operation
- Promise at a Glance
 - Customers ,partners and products
 - Financial status
- Growth Strategy
- Three Segments case study
- Q&A

AGENDA

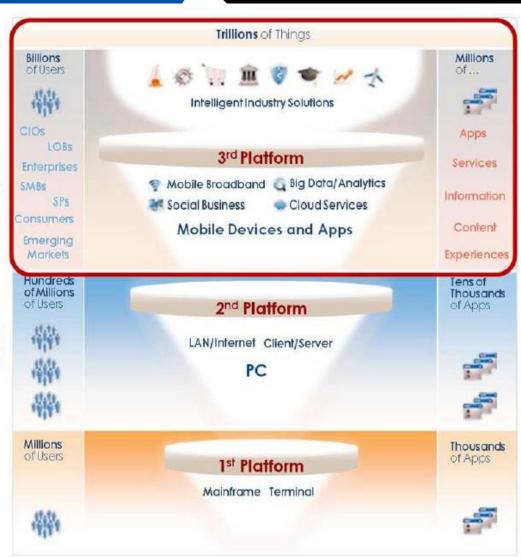
IT Trend - IDC predictions 2013 (2012/11)



- 2013 WW IT spending: \$2.1T (up 5.7%)
- By 2020, when the ICT industry reaches \$5 trillion.
- The 5 key technologies drive 98% of future ICT growth: IOT, Mobile, Cloud computing, Social business and Big Data Analytics. (22% to 40%)

1CT Innovation 2005–2020+

 Gartner: 80% couldn't get the benefit from Big Data by 2015. 1985–2005



Market Opportunities



- ECB storage
 - WW ECB market size will be US\$ 30B (2017, CAGR 5.6%, Gartner)
- Cloud
 - WW cloud market: \$ 67.6B(2017, CAGR 38%)
 - WW cloud storage: \$ 12.1B (2018, CAGR 40%, Market and Market)
- Big Data
 - WW \$10B in 2013. \$20B in 2016. (CAGR 39%)
 - China: \$0.08B to \$0.6B in 2016 (CAGR 51%, IDC)
 - Taiwan: \$0.024B in 2012 to 0.0365B by 2015.(CAGR 24%, III MIC)
- Surveillance Storage
 - WW \$6.4B in 2015 (CAGR 19%, PIDA)
- Rich media Storage
 - WW \$ 11.9B in 2018 (CAGR 14%, Coughlin)

Promise's Global Coverage







- ✓ Sales and Marketing
- √Technical support
- ✓ Logistics
- ✓ After Sales service



- ✓ Sales and Marketing
- √R&D
- √Technical support
- ✓ Logistics
- ✓ After Sales service

PROMISE USA

- ✓ Sales and Marketing
- √R&D
- √Technical support
- ✓ Logistics
- √ After Sales service





- √ Sales and Marketing
- √R&D
- √Technical support
- √ Manufacturing & Logistics
- ✓ After Sales service

WW employee no. 500 (46% in R&D) 2013 Rev.: US\$ 122M

Snapshot of Promise



Top 10 Storage vendor worldwide



- High Margin: 42.2% (entry barrier)
- RD/Rev. of Promise is 15% > Tier 1 IT vendor 6%~8%
- Promise brand v.s. ODM: 45% v.s. 55%
- 80%+ rev. from US & EMEA, WW brand, S&M, channel & service

Vendor	2013 Revenue US\$M	2013 Market Share	2013-2012 Growth rate
EMC	7,723.20	34.3%	3.69%
IBM	2,853.50	12.7%	-3.72%
NetApp	2,666.70	11.8%	6.32%
HP	2,081.30	9.2%	6.05%
Hitachi/HDS	1,997.00	8.9%	-6.60%
Dell	1,474.20	6.5%	-8.42%
Fujitsu	484.7	2.2%	5.90%
Oracle	223.6	1.0%	-30.06%
Promise	121.8	0.54%	15.92%

Source: Gartner 2014

Income statement, 2010~2014 Q1



(In NT\$ Millions)	2010	2011	2012	2013	2014 Q1
Net Revenue	2,614	2,828	3,108	3,617	884.6
Gross Margin	50.3%	40.2%	38.7%	42.2%	43.1%
Operating Expenses	1,301	1,253	1,052	1,156	307.6
Operating Margin	0.5%	-4.1%	4.9%	10.2%	8%
Net Income	6	(183)	101	331	83.4
Net Profit Margin	0.2%	-6.5%	3.2%	9.1%	9.4%
EPS(NT\$)	0.04	(1.25)	0.68	2.22	0.52
ROE	0.3%	-11.7%	6.4%	17.2%	3.66%
FX rate(NT\$/US\$)	31.518	29.390	29.574	29.689	30.27

Worldwide customers and Partners



























































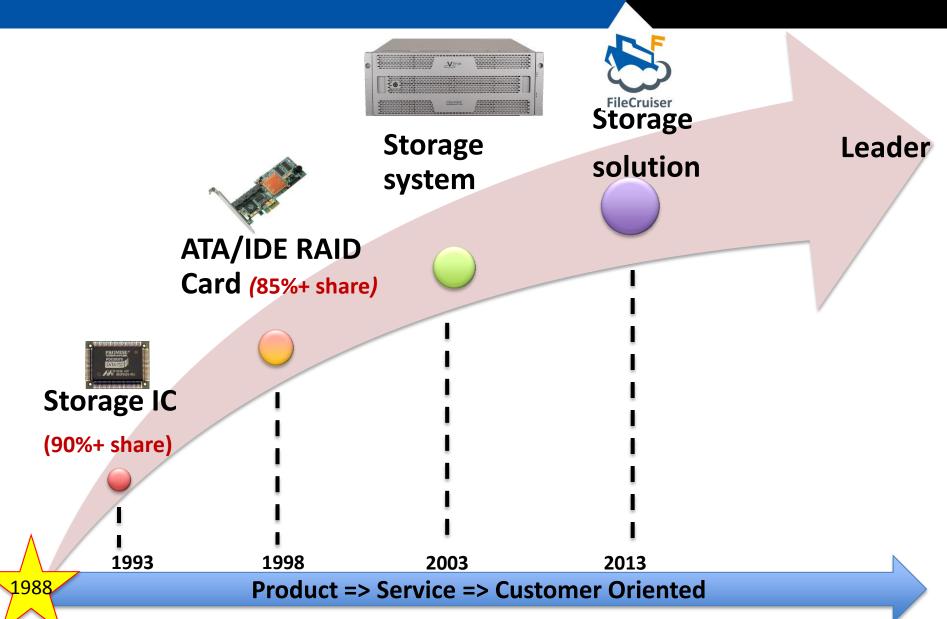






Positioning Change





Future Course



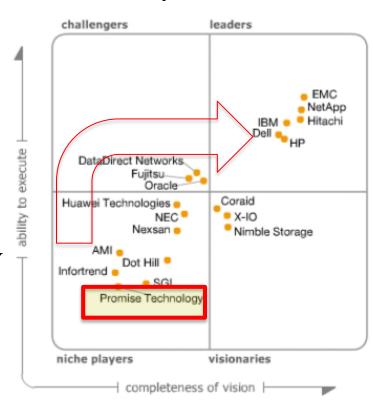
Re-Positioning

 From Device vendor to Solution vendor, provide storage solutions to compete with worldwide storage vendors.

How to achieve:

- Solution oriented: In-house design SW application and ally with 3rd ISVs.
- Provide industry application, not IT application
 - Surveillance: Vess A-Class
 - Rich Media: VTrak A-Class
 - Cloud storage: FileCruiser, Object Storage, Block Storage.

Gartner Report 2013-03-21



As of March 2013

Target Market & Strategy Planning



Surveillance

Cloud

Rich & Media

Customer oriented

Market

PIDA:

 2015 Worldwide surveillance storage will reach US\$ 3.8B with 19% CAGR.

Strategy

- Ally with WW VMS leader to develop next generation of VMS.
- Provide tailor made surveillance solution with better performance.

Market

Markets and Markets:

 2018 Worldwide cloud storage will reach US\$ 46.8B with 40% CAGR

Strategy

 Provide SAAS and IAAS with object cloud end to end solution to Government, enterprise and education industry.

Market

Coughlin (2012) :

1. The storage of R&M will grow to US\$ 11.9B in 2018 with 14% CAGR.

Strategy

- 1. Provide 4K & 8K HD ready SAN solution
- Penetrate back up and archive segment

Industry oriented storage solution



IT/Cloud storage

Platform – VTrak, Vess and Storage Server



Solutions – FileCruiser: File Sharing and Synchronization



Solutions – Scale-Out Object and Cloud Block Storage



Markets for Private Cloud

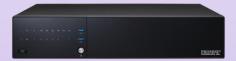
- Educations, Telecomm., Manufacturing, Enterprises, Transportations, Financial Institutes, Medicare, etc.







Vess A2600



Vess A2200



Rich media storage



Product Line by Segment





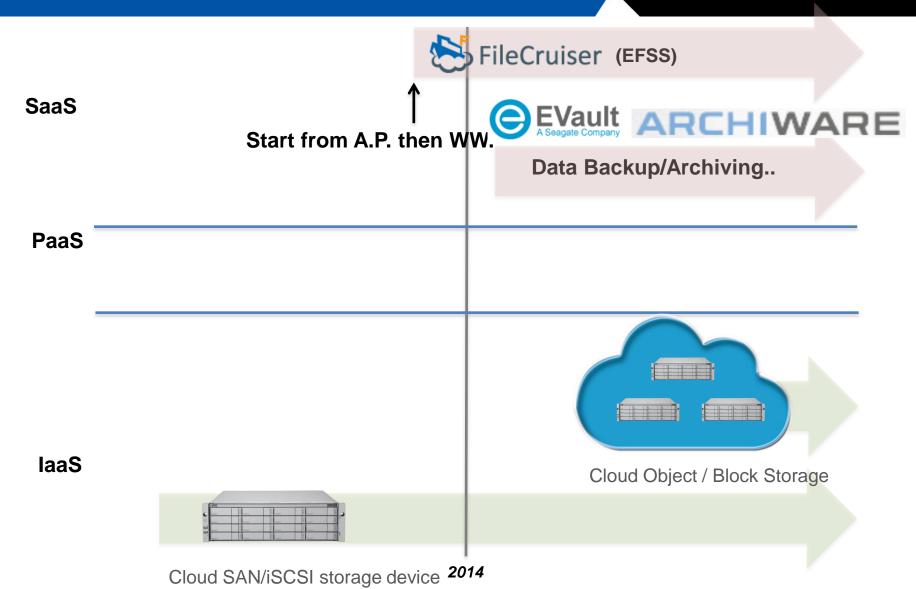
Security



Case study - Cloud

Cloud strategy





Internet Datacenter in US



- PROMISE VTrak installed in an Internet data center in the USA
- Installation of 9000+ VTrak chassis
- Over 100PB+ of usable storage and growing!





VTrak within CERN's IT Center



- CERN initially deployed over 200 VTrak J830s expansion chassis
- In 2013, will add over 300 more VTrak Jx30 units to CERN's growing deployment



"During a significant two-year deployment ramp-up, the flexibility and reliability provided by the PROMISE VTrak J830s units met our expectations. We are able to use them both for our bulk storage as well as in high availability configurations for critical services."

Olof Barring Technical Responsible for Procurement of Servers and Storage, IT Department, CERN



Case study – R&M

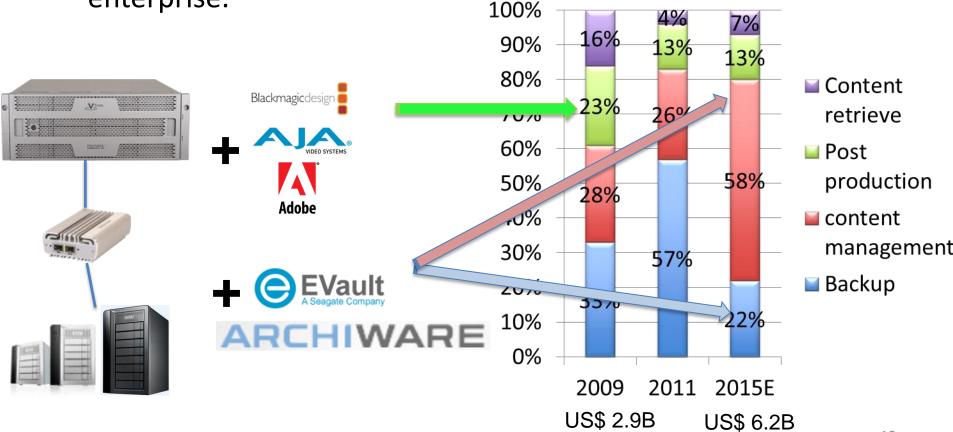
Rich media strategy



Ally with third party ISV to penetrate R&M application portion.

4K/8K opportunity: Thunderbolt 2 product from SMB to

enterprise.



4K opportunity



	2013	2014	2015
4K Panel size in 39" to 48"	1М рс	5M pc	10M pc
4K Panel size in 50"+	2M pc	8.5M pc	22.5M
4K panel / total Panel	1.3%	5.7%	13.8%

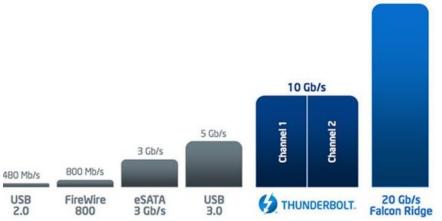


20 Gb/s

Source: TRI, 2013

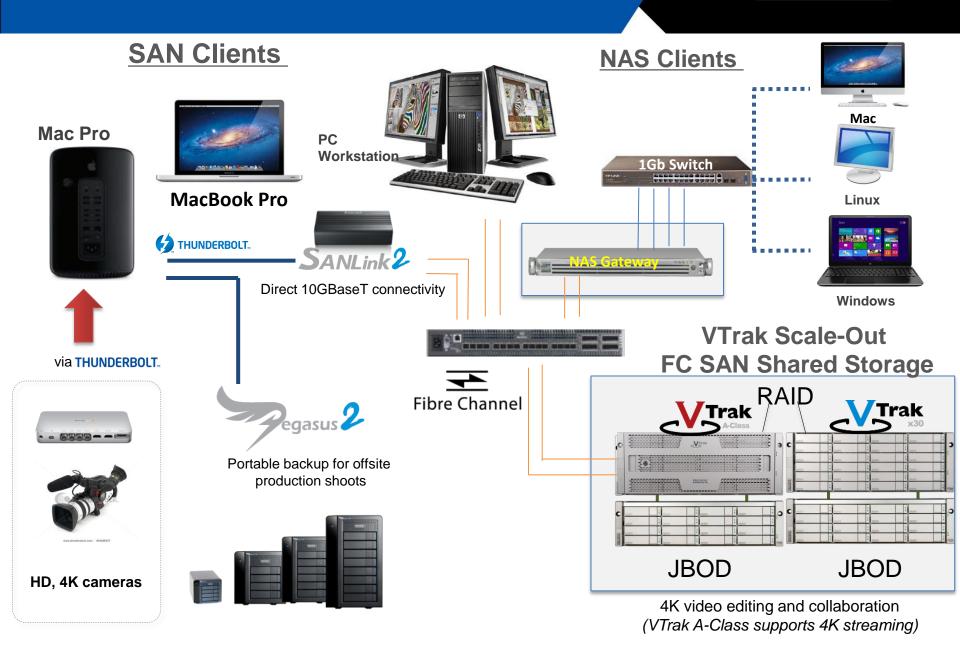
Table 2. Feature Film Metrics (24 fps, 10-bit deep, 3-color file assumed)

2K Resolution	4K Resolution
8.3 MB	53 MB
0 TD	8 TB
216	010
100-400 TB	400-1,600 TB
200 MB/s	1,274 MB/s
	,
	8.3 MB 2 TB 100-400 TB



VTrak A-Class FC Shared SAN + NAS Gateway





4K (Ultra HD)







Customer Story

ESPN

MONDAY NIGHT FOOTBALL

KEY HIGHLIGHTS

Challenges

- Required storage to ingest, edit, and deliver HD video clips for broadcasts of Monday Night Football
- Apple X-Serve RAID could no longer handle increased file sizes and data rates of production environment

Solutions

- PROMISE VTrak A-Class
- PROMISE Pegasus R6 (12TB)
- PROMISE SANLink

Benefits

- Significant bandwidth to work natively with 1080 px video on Sony FS-700 camera
- Seamless firmware and hardware upgrade path for future 4K acquisition and delivery requirements
- "Beyond outstanding" support to ensure Monday Night Football workflow is performed at the highest levels

PROMISE Storage at Forefront of National Sports Broadcasting



About ESPN

Known for its leading comprehensive sports programming around the world, ESPN has lead television sports broadcasting since 1979 and has introduced many technological innovations such as slow motion replays, animation, and computerized graphics (CQI) to audiences worldwide. Monday Night Football is ESPN's live broadcast of weekly professional football games with which it is ranked as one of history's highest-rated television programs as well as one of the longest-running prime time commercial network television series.



Apple Xsan & Promise VTrak @ the Olympic Games





Promise VTrak series

To support that workflow in the Beijing studio, Televisa devised an integrated Apple Xsan network with 30 Mac Pros running Final Cut Studio and 50 Xserves connected via Fibre Channel using a QLogic 9200 Director-class switch, along with another 12 iMac editing stations connected over standard Ethernet. To hold all of the generated footage, Televisa's network includes 200 terabytes of storage using Promise Technology Raid arrays. The solution is designed to handle 22 simultaneous ingest channels of live footage and support the almost 50 Final Cut Pro editing workstations, mixed between offline-quality proxy editing and online editing. The daily workload is up to 12 hours from each of the 22 channels of incoming footage.





VTrak @ the World Cup

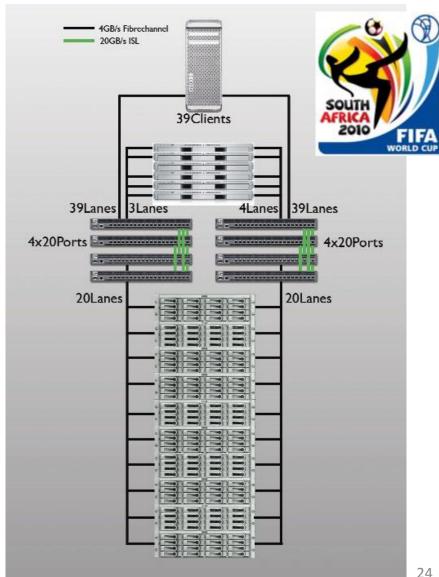


Solely HDTV (16:9) is used for the first time.

For the services of the International Broadcast Centre storage capacity is less critical than the reliably available data transfer rate.

10 Promise VTrak F-Class units with 16 SAS hard drives (3,5 Inch, 15.000 rpm, 450GB) in each of them are networked together and simultaneously utilized as a RAID 5 set. The expected data transfer rate for the access on about 66 TB usable storage capacity is 10 x 300 MB/s







Case study - Surveillance

SONY - Vess for SONY IP Surveillance Solutions







Sony Green partner certification Multi-path redundancy Easy Maintenance Quick setup & simple operation Green Power Management Capacity Expansion up to 80 TB



Outer Mongolia, Mongolia Mine Project



• Outer Mongolia • Mongolia Mine Project

- Customer used EMC Isilon as their Surveillance Storage. The system works fine initially, but after recording video for few days, the frame lost found at other storage vendor.
- EMC upgrade the storage to their enterprise level storage (cost \$50,000+ per unit), but the problem is still there.
- Customer replaced EMC with Promise VessRAID 1000, the problem solved.

Configuration

- Camera Qty: Around 5000
- Retention Period: 30 days
- NVR: Each manages up to 64 cameras, 7 days to record locally, rewrite pattern
- Backup Server: Each manages up to 8 NVR servers, 30 days to record
- Estimated Storage Required : 300TB with each backup server

Deployment

- − Location 1 − 512 cameras
- Location 2 512 cameras
- − Location 3 − 512 cameras
- − Location 4 − 512 cameras
- Location 5 512 cameras
- Location 6 460 cameras



China HangZhou Station Project



• China Hangzhou Station Project

- Customer used Dell storage as their surveillance storage, the solution works fine in the first month. When surveillance recorder starts to overwrite video data on the disk array volume, the video frame lost found at the deployed other storage vendor.
- Replaced Dell with Promise VessRAID 1000, the problem solved.

Configuration

- Camera Qty: Around 100+
- Image resolution: 720x480@D1
- Retention Period: 30 days
- NVR: Each manages up to 32 cameras, rewrite pattern
- Estimated Storage Required : 300TB with each backup server

Deployment

- − Location 1 − 32 cameras
- Location 2 32 cameras
- − Location 3 − 32 cameras
- Location 4 32 cameras



Ohio University



• Ohio University Project

- There are currently a couple of hundreds cameras deployed campus wide, customer uses a BOSCH solution with Infortrend storage as the initial proposed package.
- The other storage vendor has a reliability issue with BOSCH VRM.
- After customer replaced with 20+ units of Promise VessRAID 1000 iSCSI, the problem solved.

• Configuration

- Camera Qty: 200+
- Image resolution: 720x480@D1
- Retention Period: 30 days
- NVR: Each manages up to 32 cameras, rewrite pattern
- Estimated Storage Required : 300TB with each backup server



Marketing Presence





The World's Fastest Storage Solutions with Thunderbolt™ Technology! Windows THUNDERBOLT.



2013 Intel IDF San Fransico

2013 IBC Holland

2013 Computex Taipei







2013 CeBIT in Hannover Germany

2013 NAB Show in Las Vegas

2013 IFSEC in Birmingham, UK

Marketing Presence





PROMISE BUNDLOGY, INC.



ISC West/ USA

IFSEC/UK

NAB/ USA



Taiwan Solution Day K



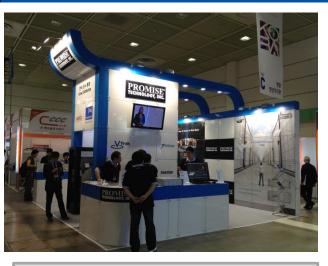
Korea Solution Day



Japan Solution Day

Marketing Presence









2013 KOBA Show in Korea

Blackmagic Roadshow in Japan

NAB Show in Las Vegas



Intel Storage Forum in Taipei



Intel IDF in BJ



Adobe Road Show

Partner's Words



"The high level of storage integration and energy-efficient performance of the Intel Xeon processor C5500/3500 provides a strong foundation for storage systems to manage the explosive growth of data. The performance and storage capabilities of this family of processors enables PROMISE to deliver faster processing and greater availability in a dense form factor."

David Tuhy, general manager, Intel Storage Group

""Intel is excited about the superior performance and simplicity Thunderbolt technology and PROMISE's Pegasus family of products will bring to consumers and media professionals trying to keep up with the explosion of digital media"

> Jason Ziller Director, Thunderbolt Planning and Marketing, Intel Corporation

"Thunderbolt sets new standards for speed, flexibility and expansion. The new Pegasus RAID with Thunderbolt delivers pro-level performance in an affordable package, perfect for use on location or in the studio."

Ron Okamoto

Apple's vice president of Worldwide Developer Relations

"As a leading provider of top notch security solutions, Sony is pleased to partner PROMISE Technology in offering to our customers, the iSCSI storage solutions, which are a perfect complement to our comprehensive range of security solutions."

> Yoshikazu Hirano General Manager of Security Solutions Asia Pacific, SONY

Summary – Promise's competitive advantages





2014 Growth engine



- 4 new products launched in 2013
 - Surveillance: VessA
 - R&M: Vtrak A class; Pegasus 2 (4K ready)
 - Cloud: FileCruiser
- New geography / customer acquisition
 - South America / Canada / Mid East / Africa / Russia
 - New ODM customers acquisition
- New ISV alliances
 - Asset management in R&M market
 - Backup applications in R&M and Cloud market
 - VMS certifications
 - Big Data partners engagement
- Solution team setup



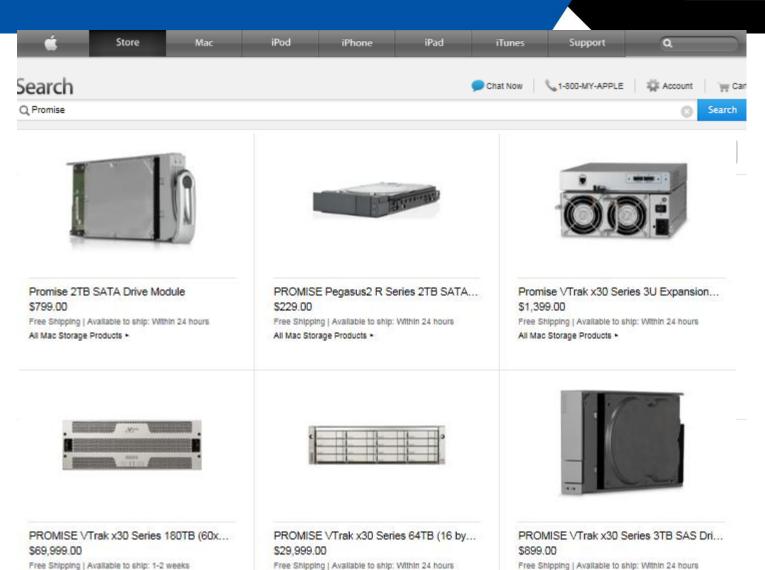
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Promise in Apple store

All Mac Storage Products .





All Mac Server Accessories >

All Mac Storage Products .

4K Opportunity (Con't)



	Hnit:	Millions

■ Unit: Millions					
Supplier	2013	2014	Products		
AUO	0.3	5	42",50",55"65"		
BOE	0	1	49", 55"		
ChinaStar	0.4	2	49", 55"		
Innolux	1.8	12	39",40",42",50",58",65",85"		
LG Display	0.1	2	49", 55", 65", 84"		
Samsung	0.1	4	40",48", 55", 65", 85", 98"		
Sharp	0.02	0.5	60", 70"		
Total	2.72	26.5	38		