

以智慧儲存解決方案,加速實現智慧製造願景 Double-barreled Solution[™] - Building Bridges to the Cloud

Apacer 宇瞻科技 垂直市場應用處 產品技術副理 朱家君 Ivan Chu

Apacer Size and market impact of AloT/IIoT

Impact on global economy

Services and ecosystems

Infrastructure

Sensors and devices

Source: The Industrial Internet of Things (IIoT): innovation, benefits, and barriers.

IoT market by 2020 \$ 110bn

Morgan Stanley (2015): \$90 billion to \$110 billion by 2020

CAGR until 2020

7.3%

Global IIoT Market report: global IIoT market to grow at a CAGR of 7.3% until 2020

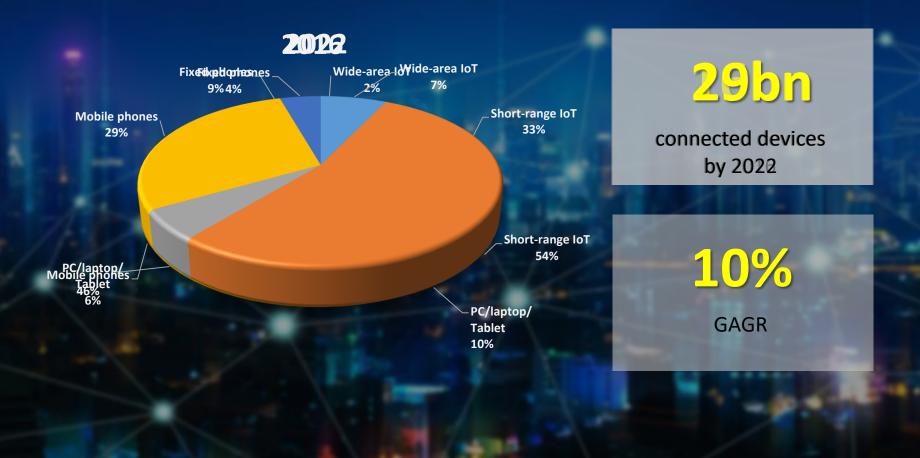
Impact on global economy by 2030

\$ 14.2tn

Accenture estimates the IIoT could add \$14.2 trillion to the global economy by 2030



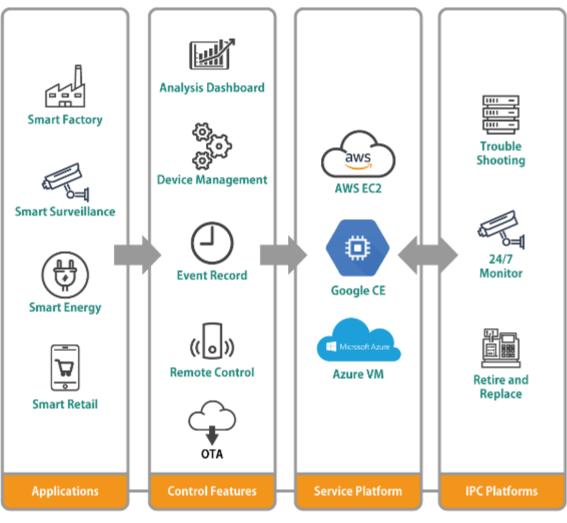
Why do you need the Double-barreled Solution™?



Source: Ericsson, Internet of Things forecast.

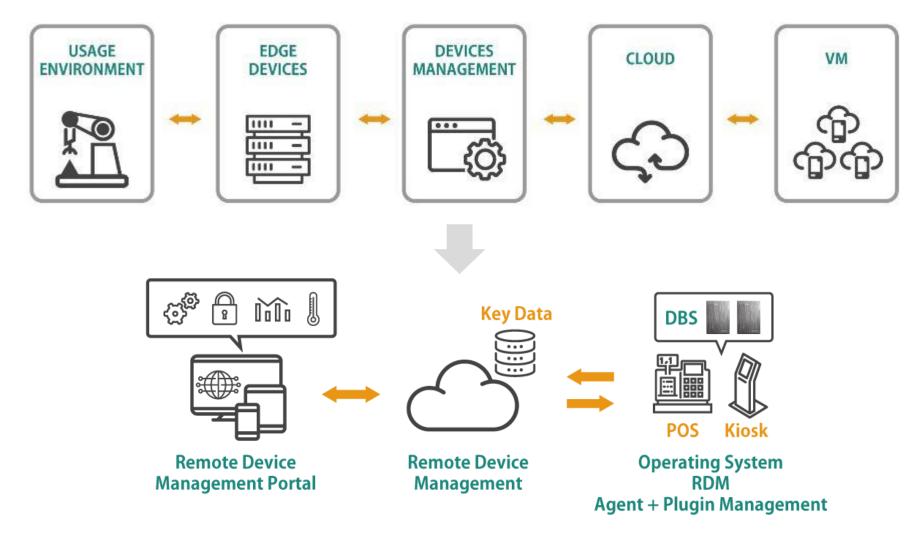
Apacer

IPC industry cloud service architecture



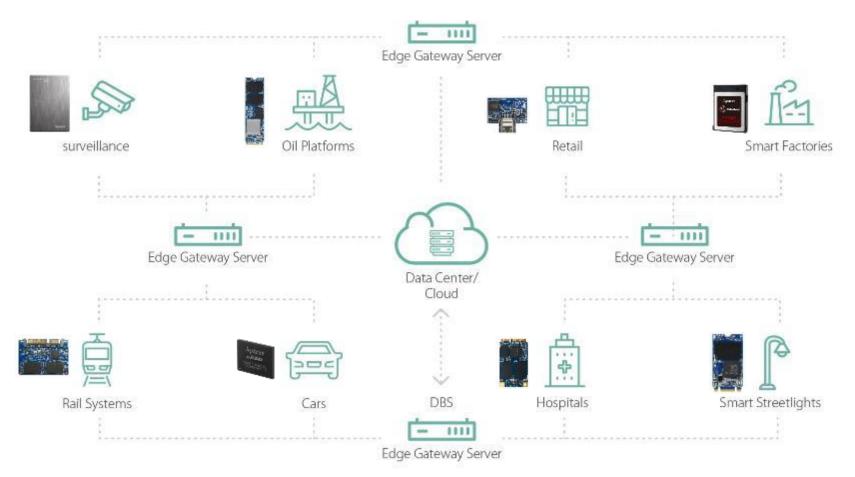
Apacer

IPC industry cloud service architecture



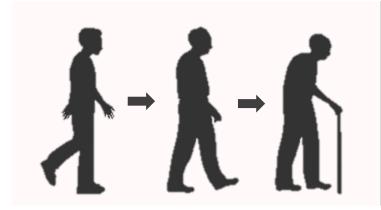
Building Bridges to the Cloud Edge-to-cloud software:

Users can monitor SMART info of every SSD via web or smartphone (iOS & Android).





Where does data live? In your storage (SSD).







An SSD's Life is Shorter Than A Person's.

	231444 5 321216	2 13245450154 34659782135 35656497652 1324545015 5 84987984301 64023100002 31200124556 8498798430 0 24568765435 13656462857 87976423120 2456876543
1111	SYSTEM FAILURE & Dat	ta is the core around which
1111	519878 4 34040	the system revolves.
	2 0 0 5 2 4 9 4 2 1 7 4 5 4 5 4 6 2 1 2 4 2 0 0 5 2 4 9 4 2 1 7 4 5 4 5 4 6 2 1 2 4 6 4 5 7 5 4 5 4 0 2 1 7 4 5 7 5 4 5 4 0 2 1 7 4 5 7 5 4 5 4 0 2 1 7 4 5 7 5 4 5 4 0 2 1 7 4 5 7 5 4 5 4 0 2 1 7 4 5 7 5 4 7 7 5 4 7 7 5 7 5	4 25375763520 24212124567 45456402124 253757635; 2 43597572672 54212054976 24575454012 4359757263
	21 2 4100 12245454440	0 40133727967 85323051564 42245454440 4013372797 3 97801322479 65246791630 55546520303 9780132241



Building Bridges to the Cloud

Which **RISK** is acceptable?



What solves all these problems? **Double-barreled Solution™**



How can Double-barreled Solution™ help you reduce risk? Building Bridges to the Cloud

Double-barreled Solution™

CoreAnalyzer2 – Know your application

Choose the most suitable F/W and SSD

Step 2

Step 1

SSDWidget 2.0 – Monitor your SSD Status

Anticipate and mitigate SSD failures remotely

Longer Lifetime, No Downtime



CoreAnalyzer2

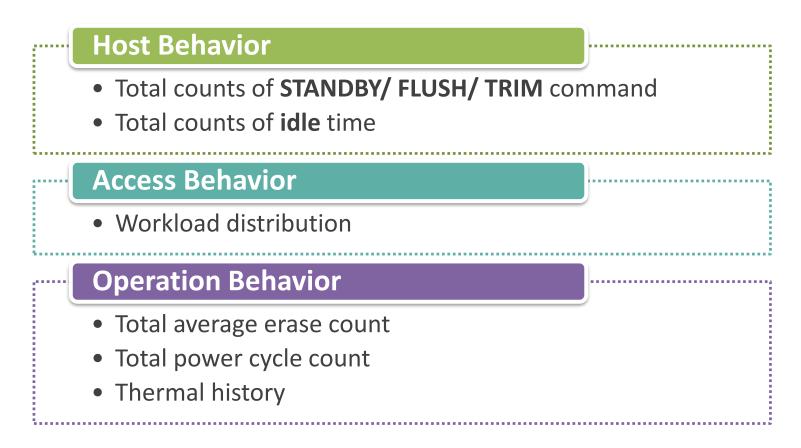
How does it work?





CoreAnalyzer2

Improving on CoreAnalyzer1, the functionality of CoreAnalyzer2 is enhanced with new features:



CoreAnalyzer2



Why do we need to monitor SSDs remotely?

Identify potential failures in advance

Data reliability concerns

Reduce manpower & maintenance costs

SSDWidget 2.0

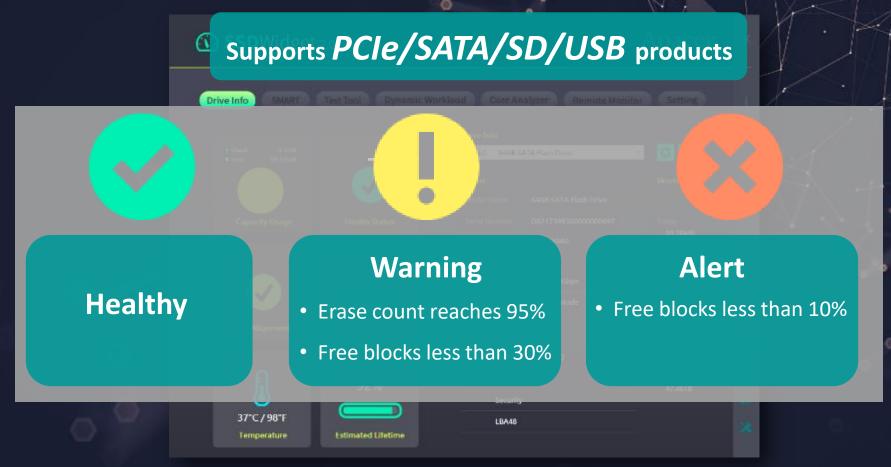
Disk Information -

🕥 SSDWidget	2.0 The Most Reliable S	itorage For Industries		Apacer	×
Drive Info					1
	Drive Info				
Used 66.32GB Free 52.82GB		Disk0 128GB SAT	FA Flash Drive	- 0 🖻	1
		Model		Workload	
		Model Name	128GB SATA Flash Drive		
Capacity Usage	Health Status	Serial Number	D0117429500000000312	Today	
		Firmware Version	SFDM1048	4.1MB	
		Flash Type	MLC	Daily	
	5	Transfer Mode	SATA 6.0Gbps	107.32MB	
	3000	Drive Status	Normal Mode		
4K Alignment	SSD P/E Cycle	Support Feature		Week 4.1MB	
	99%	S.M.A.R.T.	NCQ		
E.		TRIM		Total 284.568	•
U U		Security		284.308	9
40°C / 104°F		LBA48			
Temperature	Estimated Lifetime				

15

SSDWidget 2.0

User Interface -



00

SSDWidget 2.0

Remote Monitor -

SSDWidget 2.0 The M	fost Reliable Storage For Industries	Apacer	
Orive Into SMART Test Tool	Setting up an SSDV	Vidget 2.0 serve	er is required.
Group	ar Platform	PC01	-
IP ssdwidget.apa User Name rduser1@apa	over the Internet h		
	Connection Status:		0 0
			*



SSDWidget 2.0

Cloud Monitor -

Users can monitor SMART info of every SSD via web or smartphone (iOS & Android).

iOS / Android APP



iOS version will be updated later

iOS Androic SMART info downloaded **Database** SSDWidget 2.0 server utility is required **Private cloud**

SMART info uploaded



SSD B

SSD C



Building Bridges to the Cloud – DBS Cloud Edition Dashboard







Building Bridges to the Cloud - Dashboard

DBS Cloud Edition

Monitoring	Manageme	ent	Alert	
1. SSD operation 2. SSD health st	1. Firmware On behavior Tatus	1. 2. updates	Notificatio Real-time a	ns ^{Ctions}

Apacer

Building Bridges to the Cloud





Double-barreled Solution™

Help you to develop SSD monitoring service
Anticipate and Mitigate Failures

"If you want to go fast, go alone. If you want to go far, go together." 獨行者速,眾行者遠.

> If you want to go fast and far, Apacer will go with you. 宇瞻與您攜手,共創企業永續發展



The Most Reliable Storage For Industries

Thank you!

industrial.apacer.com

©Copyright Apacer Technology Inc. Confidential. Unauthorized use, dissemination, distribution, or reproduction of this document is not allowed without the permission of Apacer Technology Inc. Specifications of details may change without notice.

This document and its contents are confidential Copyright Apacer Technology Inc.