





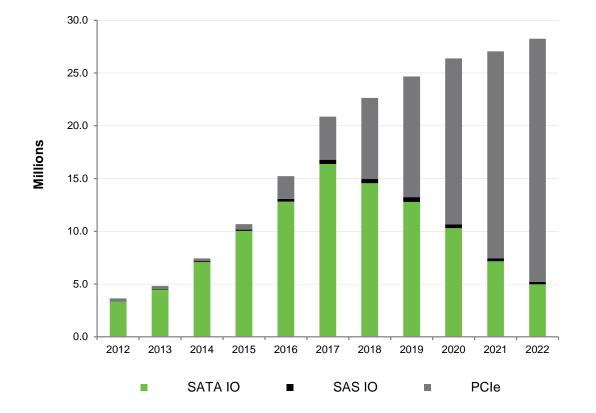
Innovative Next Gen NVMe Features

David Allen / NVMe[™] Board Member and Senior Dir. Product Marketing / Seagate

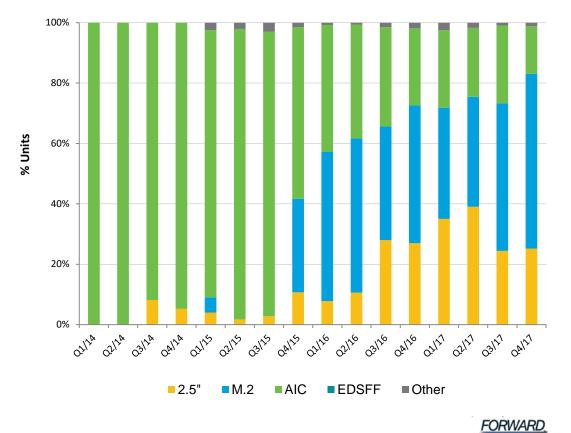
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NVMe Trends



Server-attached SSD Units



PCIe SSD Form Factor Mix

Source: Forward Insights, March 2016

NVMe innovation is driving its growth including its rich feature set and form factors.

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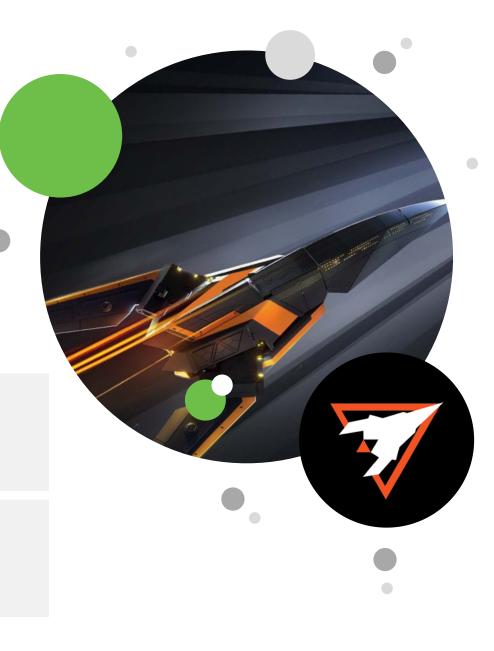
INSIGHTS

Seagate Empowers Customers to Unlock the Bits

New NVMe 1.4 Features Seagate Nytro[®] Q-Boost[™] features

IO Determinism

Streams



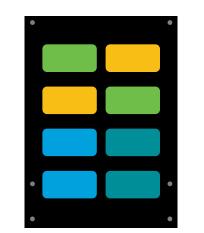
I/O Determinism

Enable hosts to treat a SSD as many small sub-SSDs and process I/O parallel in each small-sub SSD

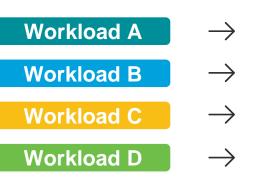
- Increase Read I/Ops and reduce max latency
- Read strict QoS profile

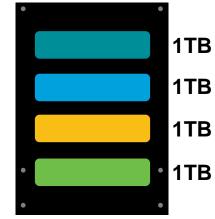






With I/O Determinism



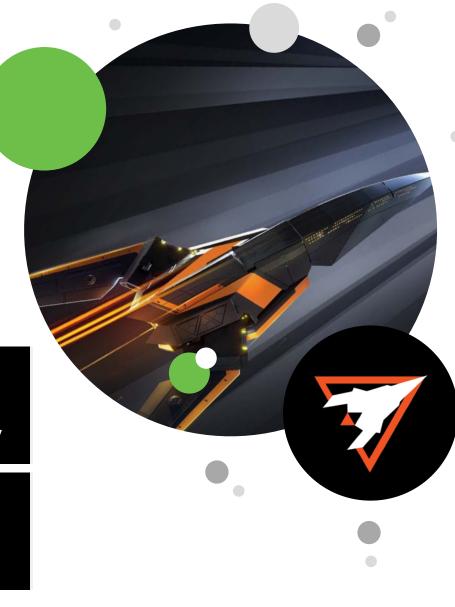


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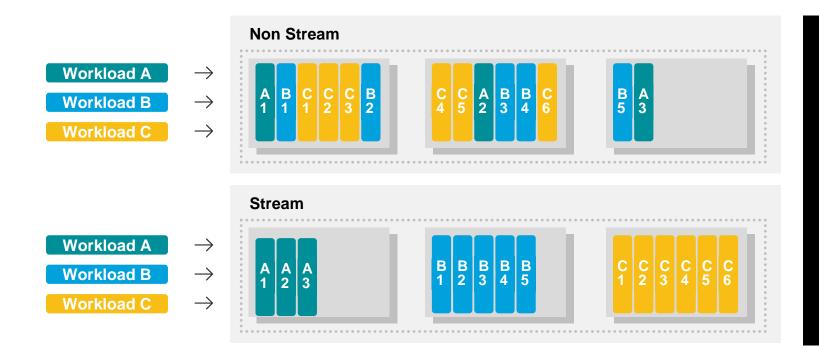
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Streams



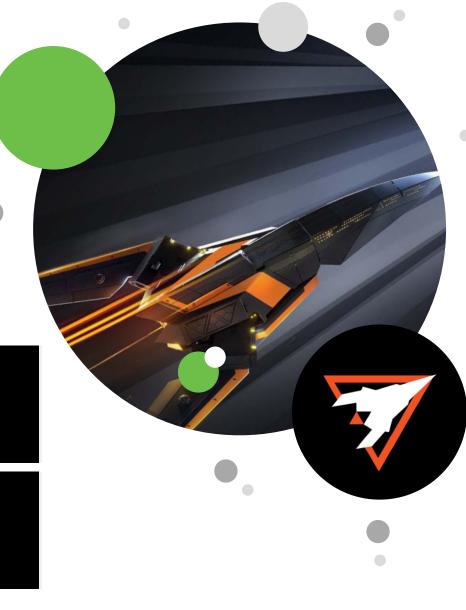
Data is groups according to a stream

- Minimize garbage collection
- Reduced Write Amplification

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Future Form Factors

For High Density Flash Expansion

Modular high density 1U Flash storage platform +

M.2 carrier

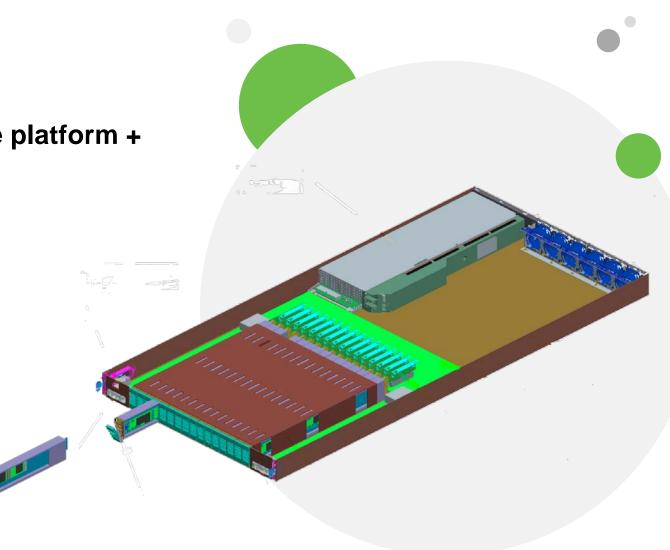
Enables flexible and modular design for OCP

High density NVMe scalability

High capacity in an extremely small footprint

Microsoft custom design

Seagate thought leadership



Questions?

Data is our DNA.



SEAGATE

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