

ASX RELEASE

4 August 2020

## 4DS GRANTED 24<sup>th</sup>, 25<sup>th</sup> and 26<sup>th</sup> USA PATENTS

4DS Memory Limited (ASX:4DS) (**4DS**) (the **Company**), having been advised by the Company's USA patent attorney, is pleased to announce the granting of three additional USA patents bringing the Company's portfolio of granted USA patents to twenty six (26).

Details of the USA patent grants are as follows:

USA Patent 24 - "Resistive Memory Device Having a Template Layer"

USA Patent 25 - "Resistive Memory Device having Ohmic Contacts"

USA Patent 26 - "Resistive Memory Device having Side Barriers"

Like recent patent grants, the present inventions relate specifically to the operation of 4DS Interface Switching ReRAM as a high-speed Storage Class Memory as announced on 13 June 2017 – "4DS ReRAM Reaches Read Speed Comparable to DRAM".

This is a significant milestone, particularly with the Company having announced on the 24<sup>th</sup> June 2020 that it had achieved the best recorded speed at near DRAM speed, which exceeded Storage Class Memory requirements without the need for speed crippling error correction. Importantly, the granting of these patents further protects and supports the Company's entire intellectual property portfolio.

All three patents were placed on a "fast track" approval process which highlights the uniqueness and significance of all three.

These patents, along with the entire portfolio of USA patents, are 100% owned by 4DS having been developed in house and are free from any royalty and or licensing obligations.

The Company has filed an additional six (6) USA patent applications to protect its stream of innovations and to strengthen its intellectual property portfolio in the area of Interface Switching ReRAM for Storage Class Memory near to DRAM.

Chief Executive Officer and Managing Director Dr Guido Arnout stated "Having recently announced the best recorded speed at near DRAM speed, the granting of these patents is a significant milestone for the Company. The 4DS portfolio of USA patents around Interface Switching ReRAM are extremely valuable assets which protects and ring-fences the Company's position as it moves towards developing a megabit chip suitable for Storage Class Memory applications."

**ENDS**

Authorised for release by the Board.

### Contact information

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## About 4DS

4DS Memory Limited (ASX: 4DS), with facilities located in Silicon Valley, is a semiconductor development company of non-volatile memory technology, pioneering Interface Switching ReRAM for next generation gigabyte storage in mobile and cloud. Established in 2007, 4DS owns a patented IP portfolio, comprising 26 USA patents granted and 6 patent applications pending and or filed, which has been developed in-house to create high-density Storage Class Memory. 4DS has a joint development agreement with Western Digital subsidiary HGST, a global storage leader, which accelerates the evolution of 4DS' technology. 4DS also collaborates with imec, a world-leading research and innovation hub in nanoelectronics and digital technologies. The combination of imec's widely acclaimed leadership in microchip technology and profound software and information and communication technology expertise makes them unique.

For more information, please visit [www.4dsmemory.com](http://www.4dsmemory.com).

### Disclaimer

This release contains certain forward looking statements that are based on the Company's management's beliefs, assumptions and expectations and on information currently available to management. Such forward looking statements involve known and unknown risks, uncertainties, and other factors which may cause the actual results or performance of 4DS to be materially different from the results or performance expressed or implied by such forward looking statements. Such forward looking statements are based on numerous assumptions regarding the Company's present and future business strategies and the political and economic environment in which 4DS will operate in the future, which are subject to change without notice. Past performance is not necessarily a guide to future performance and no representation or warranty is made as to the likelihood of achievement or reasonableness of any forward looking statements or other forecast. To the full extent permitted by law, 4DS and its directors, officers, employees, advisers, agents and intermediaries disclaim any obligation or undertaking to release any updates or revisions to information to reflect any change in any of the information contained in this release (including, but not limited to, any assumptions or expectations set out in the release).

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