Emerging Digital Solutions Award

The Emerging Digital Solutions winner is selected for their proven and scalable innovative digital solutions capable of transforming the wellbeing, prosperity, connectivity or productivity of others around the world.

This award will take into consideration the successful application of ICT in such areas as humanitarianism, health, social awareness and justice, rule of law, sustainable growth, business and commerce, health care, education, as well as the effective delivery of public services and transparency.

The Emerging Digital Solutions program recognizes early-stage or veteran companies whose solutions are new, and scalable to other locations throughout the world. The Emerging Digital Solutions program is looking for solutions that can be presented to interested policy makers, investors, corporations and social stakeholders with the potential to boost its development and deployment, aiming to significantly impact individuals, groups and societies.

YOUR NOMINEES (limit three nominations per award category). *Please specify whether the nominee(s) are for the private or public sector category*.

GRAVITY, a modern data platform

REASONS FOR NOMINATION (NOTE: It is important that you make a detailed description of the nominee and why you think the nomination is justified. The absence of a detailed summary of qualifications as they *relate* to the above-mentioned award description will make it difficult for the awards committee to make an appropriate assessment of the candidate):

The GRAVITY data platform is the middle layer between database systems (source end and consuming end), providing a data flow abstraction layer, allowing data distributed in different systems to be freely scheduled, integrated, and provisioned to meet the needs of many practical applications. In the past, the work of data management and scheduling had to rely on a single specific database or data warehousing system. The expansion flexibility was limited and the usage was limited. The specific architecture was therefore difficult to meet the requirements of "Massive Data Demand" and "High Concurrency" in performance. And the management of multiple data consumers is even more excruciating. The introduction of data platform

allows the database and data warehousing system to focus on the original business, without worrying about expansion or high concurrent operations, and also realizes the control of data permissions from the perspective of the middle layer.

It can be said that the purpose of the data platform is to realize a "software-defined" data system architecture, so that the existing data system will change from a traditional silo-type architecture to a new look that is extremely flexible, expandable, and that any system can support each other, and to meet the needs of any digital transformation.

In response to the data architecture needs of digital transformation, Brobridge Co. Ltd. has created the GRAVITY as the key infrastructure technology of the data system, which can easily solve the data exchange and supply problems of many applications in the enterprise, so that the enterprise can truly get rid of the isolated data islands and fully satisfy data requirements for all applications. Regardless of the database system used, there is no need to worry about database system scalability, concurrent query capabilities, and insufficient performance, allowing applications to use all kinds of enterprise data to their fullest.

After the introduction of "software-defined" data platform technology, the data system architecture is no longer bloated, complicated, and difficult to maintain. Various functions that used to rely on a huge cluster architecture can be easily implemented. GRAVITY can tailor an efficient and highly flexible data system more flexibly according to the actual situation of the application, without the need for large-scale transformation of the existing database system architecture. It can also expand the throughput, scalability, and fault tolerance capabilities of existing database systems to simultaneously meet the goals of "Massive Data Demand" and "High Concurrency", support ever-changing commercial applications, and achieve higher digital transformation value for enterprises.

The following are the top ten benefits from introduction of GRAVITY:

1. Improve the performance of existing database systems
2. Extend the life of the legacy system, increase its expansion and fault tolerance
3. Meet the high-efficiency data scheduling needs of application systems
4. Protect the existing database system from the performance impact of a huge number of applications
5. Simplify data control and governance across organizations and units
6. Realize real-time application of data

7. Integration of heterogeneous database systems
8. Cross-cloud, cross-database system, and cross-application data migration
9. Quickly implement hot backup and disaster recovery of various databases
10. The data system has shorter response time and expansion flexibility to meet the ever-changing and unpredictable needs of the business applications in the future

SUPPORTING INFORMATION: Please send any supporting information to the address above, including information from candidate (i.e. excerpt from program description, web site print-out, press release, etc.)

- Production web site: https://gravity.brobridge.com/zh-tw/
- CNCF Blog: https://www.cncf.io/blog/2020/08/13/49940/
- VMBlog: https://vmblog.com/archive/2021/04/26/data-mesh-saves-your-legacy-system.aspx
- IThome Magazine: https://www.ithome.com.tw/pr/140986

NOMINEE CONTACT INFORMATION (for award follow up and coordination)

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