

MEDIA FACTSHEET

Singapore Government Technology Stack

The Government Technology Agency of Singapore (GovTech) is developing the **Singapore Government Technology Stack** (SGTS) for agencies to build their digital applications.

Currently, most government agencies develop independent services and infrastructure to meet the needs of the specific citizen or business group that they serve.

The SGTS will provide a platform from which common digital services and infrastructure are made available to all Government agencies. This reduces the time and effort needed to (a) introduce new digital services; and (b) enhance and maintain existing ones. It therefore allows agencies to focus on designing solutions that best meet the needs of those they serve, without worrying about the underlying infrastructure. With SGTS, citizens can expect to experience a more seamless, consistent and connected user experience across the spectrum of government digital services.

GovTech is making SGTS available for the whole public sector progressively from 2018 to facilitate our national digital transformation initiatives. The centrally-managed SGTS will be integral towards the development of high-quality and citizen-centric digital services, the rapid development of services, as well as optimisation of resources by the Government.

Components of SGTS

In technical terms, the SGTS is a platform comprising layers of software and infrastructure components. The platform will allow these common assets to be scalable, reusable and interoperable.

SGTS is made up of the following components:

- (i) Library of microservices – Common services that agencies utilise to build their applications such as agency APIs¹ for authentication, notifications or payment

¹ Application Programming Interfaces or APIs enable the hosting, managing and sharing of data between agencies, especially real-time data.

- (ii) Application Infrastructure – Software services, such as APEX² and NECTAR³, that allow users to quickly develop and deploy applications
- (iii) Infrastructure – Scalable data centre service and secure connectivity
- (iv) Data – Various government data sources

Please refer to Annex A for an example of how an application can benefit from SGTS.

Benefits of SGTS

With SGTS, government agencies would be able to tap on a suite of tools and services hosted on a common infrastructure to ensure consistency and high quality of their applications. SGTS will also:

- Improve the speed at which government agencies deliver services on a common set of infrastructure
- Enable easy exchange of data across the government, aggregating data collection for richer insights that would help with policy development and monitoring of operations.
- Reduce overall cost to agency

Uses of SGTS

One of the early uses of SGTS was for the MyInfo bank pilot. The pilot was developed and delivered in four months using SGTS, instead of what would typically take a year.

Another example would be for the building of the Whole-of-Government citizen engagement portal, Ideas!, on SGTS. This allowed the team to focus on building a scalable web service with a good level of security provided by SGTS, without the need to develop its own infrastructure.

For media clarification, please contact:

² APEX is a centralised data sharing platform for agencies to share data conveniently and securely through the use of application programming interfaces (APIs).

³ NECTAR, a Platform-as-a-Service, provides cloud-level flexibility and enables agencies to develop, run, scale and manage applications without the complexity of building and maintaining infrastructure.

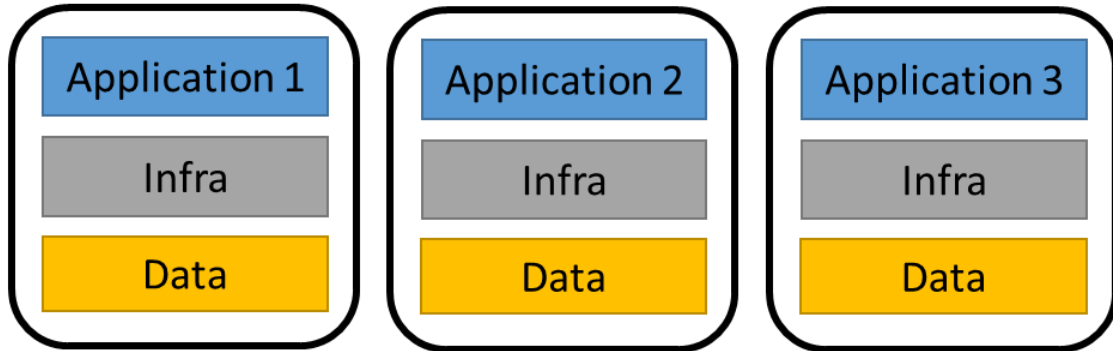


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ANNEX A

Previous silo-model



Using the Tech Stack

