

APEX Cloud (Singapore)

Good practice: Enhancing Interoperability through a public API management platform

Relevant DFI commitment: Ensure that government and relevant authorities' access to personal data is based on law and conducted by international human rights law.

Type of the initiative: institution

Stakeholder Group: Government

Launch/adoption: 2022 - Now

Goals

Singapore's **APEX Cloud** initiative is a comprehensive platform to enhance data exchange, application programming interface (API) management, and interoperability across government agencies and private sector entities. APEX aims to streamline data integration, improve service delivery, and foster innovation by enabling secure, real-time access to APIs. Unlike traditional centralised data systems, APEX provides a flexible, bilateral connection model that supports scalability and responsiveness for modern data-driven governance.

Key goals of APEX include facilitating efficient API usage across government and private sectors, enabling data-driven decision-making, and improving citizen-centric services. By integrating with critical systems like Singapore's national digital ID (Singpass), APEX plays a central role in simplifying processes, enhancing service quality, and fostering collaboration to build a digitally empowered society.

Description

The **APEX Cloud** is a governmentwide API management solution that provides a centralised platform for publishing, managing, and discovering APIs. With over 2,000 APIs from more than 45 government agencies—approximately half of Singapore's public sector—APEX is a backbone for the country's digital infrastructure. It facilitates over 100 million monthly transactions, with peaks surpassing 300 million, demonstrating its scalability and critical role in Singapore's digital ecosystem. Key features of APEX include:

1. **Flexible API Management:** Unlike traditional enterprise service buses that centralise data flow, APEX supports bilateral system-to-system connections, offering greater flexibility and scalability. This design ensures secure and efficient data sharing across diverse systems.
2. **Integration with Singpass:** APEX underpins Singapore's national digital ID, enabling trusted and consented data sharing between government, citizens, and businesses. For example, Singpass integration saves up to S\$50 per electronic Know Your Customer (KYC) transaction for financial account openings, reducing costs and processing times.
3. **Enhanced Data Exchange:** APEX enables high-quality data submissions to government agencies and businesses by facilitating seamless real-time connections. This improves the efficiency and accuracy of digital interactions, benefiting users across sectors.
4. **Scalable Infrastructure:** The platform can handle millions of monthly transactions, supporting critical national initiatives and ensuring robust service delivery.
5. **Innovation Support:** APEX empowers developers and organisations to create innovative applications by leveraging shared APIs, fostering collaboration and technological advancement.

Through APEX, Singapore reinforces its position as a leader in innovative governance, digital transformation, and data-driven innovation. By simplifying API management and enhancing interoperability, APEX drives efficiencies, reduces costs, and improves access to trusted, secure, real-time data services for citizens, businesses, and government agencies.

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