



Ecquaria Integration Centre

The Ecquaria Integration Centre (EIC) is an integration solution that is compliant with the Singapore Government's standards for the application, infrastructure and architecture.

EIC is an integration component that enables cross-zone integration through API. It comes with security-related features such as:

- » Authentication
- » Authorisation
- » Content Inspection

EIC currently comes in modular components^[1] comprising of the following:

- » EIC API Gateway
- » EIC Identity Service
- » EIC Management Console

Benefits of EIC

- » Perform content inspection at the API level
- » Manage multiple instances and components from a single console in a multi-tenant deployment
- » Speed up deployment via configuration instead of customisation or development
- » Commitment to Government compliance

Features of EIC API Gateway

TLS/SSL Support

Applications consume APIs through configuration with both HTTP and HTTPS protocol support for endpoints.

Centralised Management Console

Manage multiple API Gateway instances across multiple deployments from a single console with multi-tenancy and RBAC controls.

Authentication

Provides multiple industry-standard authentication methods such as:

- » Basic Authentication
- » Authentication Key
- » HMAC Signing
- » JSON Web Token (JWT)

Authorisation

Ensure authorised use of APIs via configuration of security policies by setting options such as:

- » Access lists for APIs and versions
- » Access lists on method and path for even more granular control
- » Rate limits and Quotas

Content Inspection

Unique to EIC API Gateway, content inspection examines the contents of a request to determine whether it should be accepted.

The content inspection capabilities are:

- » Request Body Validation
- » Request Parameter Validation
- » Resource (URL) Path Validation

Forward Proxy Support

Configure a Forward Proxy easily using EIC Management Console.

Audit Logs

Capture and log requests for auditing and traceability.

Features of EIC Identity Service

SAML2.0 Service Provider

EIC Identity Service (EIS) acts as a SAML Service Provider (SP) for integration with SingPass and CorpPass Identity Provider (IdP) using the SAML2.0 protocol.

OIDC Relying Party

EIC Identity Service (EIS) also supports the OpenID Connect (OIDC) protocol and can be configured as a Relying Party (RP) to integrate with the SingPass and CorpPass OIDC Provider (OP).

Core Services

Core services for EIS are SAML Service, OIDC Service and JWT Service. These provide the necessary APIs for both SingPass and CorpPass assertion and JWT access token generation and verification.

Management Console

Manage and configure EIS SAML Service based on project needs such as metadata information, handling of the metadata file, token generation with validity.

Forward Proxy Support

Configure a Forward Proxy easily using EIC Management Console.

Audit Logs

Capture and log requests for auditing and traceability.

Summary of EIC



Single Management Console



Government Standards-Compliant



Supports Authentication, Authorisation and Content Inspection



Supports SAML 2.0 and upcoming OIDC protocol



Runs on: Government Commercial Cloud (GCC), Government Private Cloud (GPC)

[1]Each component is licensed separately while the Management Console is bundled with each

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