

Integration gateway development guide - Claude

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BY ANTHROPIC

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Based on the project knowledge, here's a comprehensive guide on how to write a new integration using Integration Gateway:

Writing a New Integration Using Integration Gateway

Integration Gateway is a cloud-managed service that enables integrations between InsuranceSuite and third-party or internal applications using Apache Camel routes. Here's how to develop a new integration:

Key Concepts

Integration Gateway utilizes Apache Camel as the underlying integration framework for implementing Enterprise Integration Patterns (EIP). It provides a flexible framework that makes cloud-native application development easy while running outside InsuranceSuite applications for better flexibility and business agility.

Development Steps

1. Set Up Your Development Environment

- Create new integration projects using the Integration Gateway infrastructure
- Develop implementations locally before deploying to Guidewire Cloud Platform (GWCP)
- Integration Gateway provides CI/CD pipelines and provisions applications with Guidewire Identity Federation Hub for authentication

2. Write Integration Logic Using Apache Camel Routes

Integration app microservices are implemented as one or more Apache Camel routes written using Camel Java DSL. The key development tasks include:

- **Write integration logic** - Implement business logic for your integration
- **Write mediation code** - Handle data transformation and routing between systems
- **Discover events** - Identify which App Events your integration needs to subscribe to
- **Discover APIs and generate clients** - Set up connections to external systems

3. Subscribe to App Events

When building integrations with App Events:

- Use the App Events Camel component that captures application events and their associated entity snapshots
- Routes subscribe to specific events and are triggered when those events occur
- Routes can filter, transform, and deliver events to downstream systems using any protocols that Apache Camel supports

4. Handle Data Access

If your integration needs to access Integration Data Manager:

- Configure access to Integration Data Manager pools through the Guidewire Cloud Home interface
- Grant the Integration Gateway application access to specific pools:
 1. Log in to Guidewire Cloud Home
 2. From the list of pools, choose "Edit Pool"
 3. Choose "Grant Access To Pool"
 4. Select your Integration Gateway application from the drop-down list

5. Configure Components

For Integration Data Manager access, include the component in your `build.gradle`:

gradle

```
implementation("com.guidewire.camel:gw-camel-idm:${integrationGatewayVersion}")
```

Configure the appropriate region URL in `route.properties`:

properties

```
gw.camel.idm.url=https://integrationdatamanager.api.omega2-andromeda.guidewire.net/
```

Integration Patterns Comparison

The Integration Gateway represents a shift from traditional InsuranceSuite integration methods:

Integration Method	Traditional Technology	Integration Framework Technology
Outbound requests	SOAP clients	REST API Client
Persistent connections	Guidewire messaging	App Events
Inbound requests	Web Services API	Cloud API
Mediation code	Gosu programs	Apache Camel routes in Integration Gateway

Best Practices

1. **Avoid Anti-patterns:** Don't use App Events for external system polling. Instead, perform polling entirely within the Integration Gateway application using Camel
2. **Ensure Persistent Poll State:** Capture polling state so it can resume correctly after any shutdown
3. **Scale Independently:** Integration Gateway provides independent scaling from InsuranceSuite core applications with observability through log analytics
4. **Minimize InsuranceSuite Impact:** Since integration logic moves to Integration Gateway, you eliminate Gosu code in InsuranceSuite applications

Deployment and Testing

After developing your integration:

1. Test integrations locally using the development environment
2. Deploy to Guidewire Cloud Platform using the provided CI/CD pipelines
3. Monitor through log analytics for observability

Additional Resources

For detailed implementation guidance, refer to:

- **Integration Gateway Framework** guide for complete development instructions
- **Integration Gateway Administration** for deployment and management
- **App Events** documentation for event subscription patterns

- Community Case Templates for tutorials including:
 - Creating record-mode integrations
 - Running record-mode integrations
 - Storing properties to Property Service
 - Replaying recorded events

This approach allows you to build flexible, scalable integrations that can be enhanced with minimal impact to InsuranceSuite, leading to better flexibility and business agility.