# Project Build Dependencies
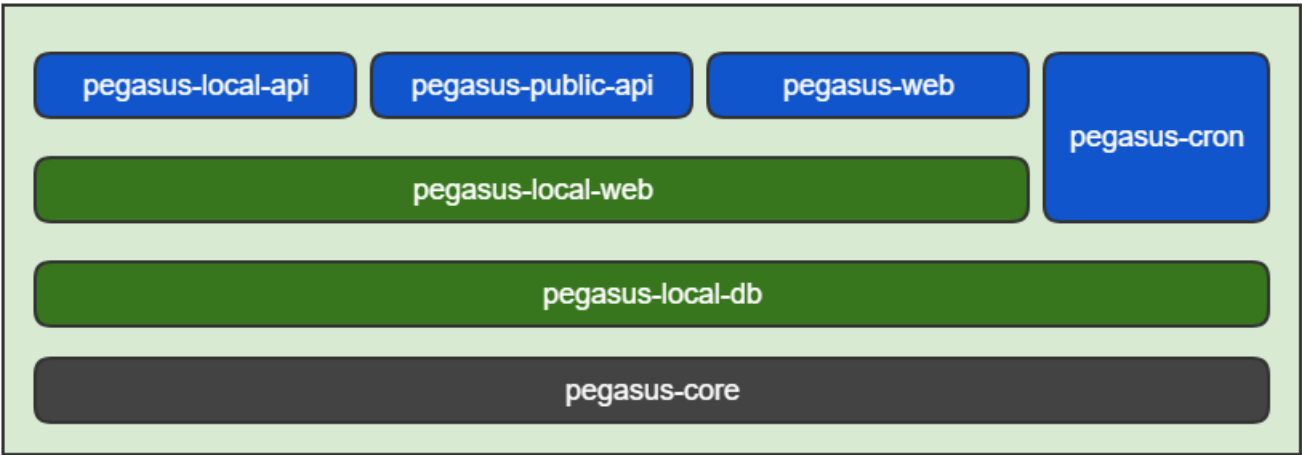


## Pegasus Java Client SDK

**acs-sdk-java - https://github.com/arrow-acs/acs-sdk-java**

This is a client SDK, written in Java, that a client application can leverage to connect to the **Pegasus Public API** for integration with Pegasus Platform

| Name | Type | Description | Dependencies |
|------|------|-------------|--------------|
| acs-core | Library | Client-side data models for Pegasus Public API | |
| acs-client | Library | REST API client for Pegasus Public API | acs-core |



## Kronos Java Client SDK

**acn-sdk-java - https://github.com/arrow-acs/acn-sdk-java**

This is a client SDK, written in Java, that a client can leverage to connect to the **Kronos Public API** for integration with Kronos Platform

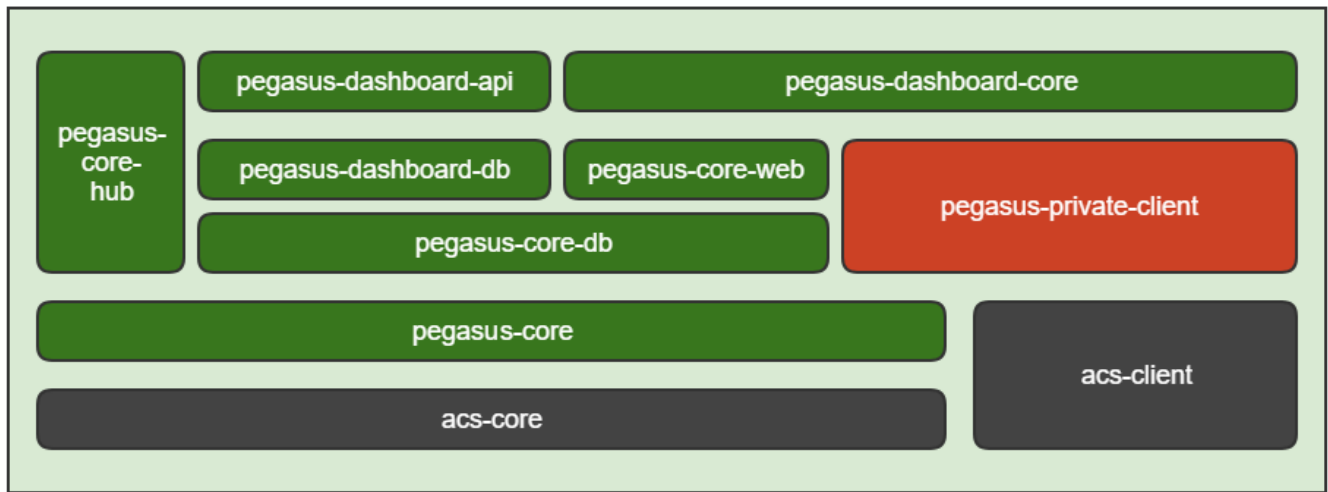| Name | Type | Description | Dependencies |
|------|------|-------------|--------------|
| acn-core | Library | Client-side data models for Kronos Public API | acs-core |
| acn-client | Library | REST API client for Kronos Public API | acn-core, acs-client |
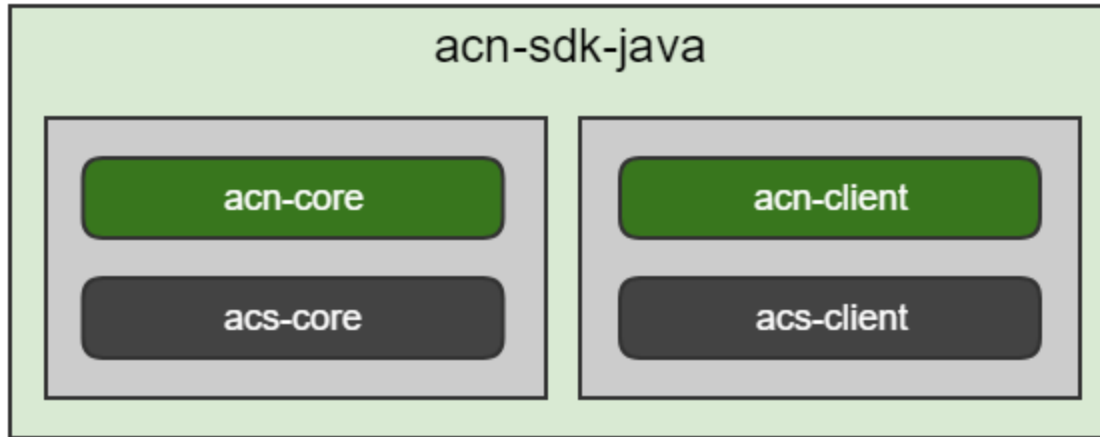
## Pegasus Platform Common Libraries

**pegasus - https://git.arrowconnect.io/pegasus/pegasus**

These are platform common libraries that an application can leverage when built on top of the Pegasus Platform.  These are shared libraries and can be bundled with applications.  Some libraries use platform services such as redis, mongodb, rabbitmq, etc.  At runtime, these libraries will use the local platform services within the current zone that they are hosted.  Example of these common services - cache service, audit log service, file attachement service, etc.
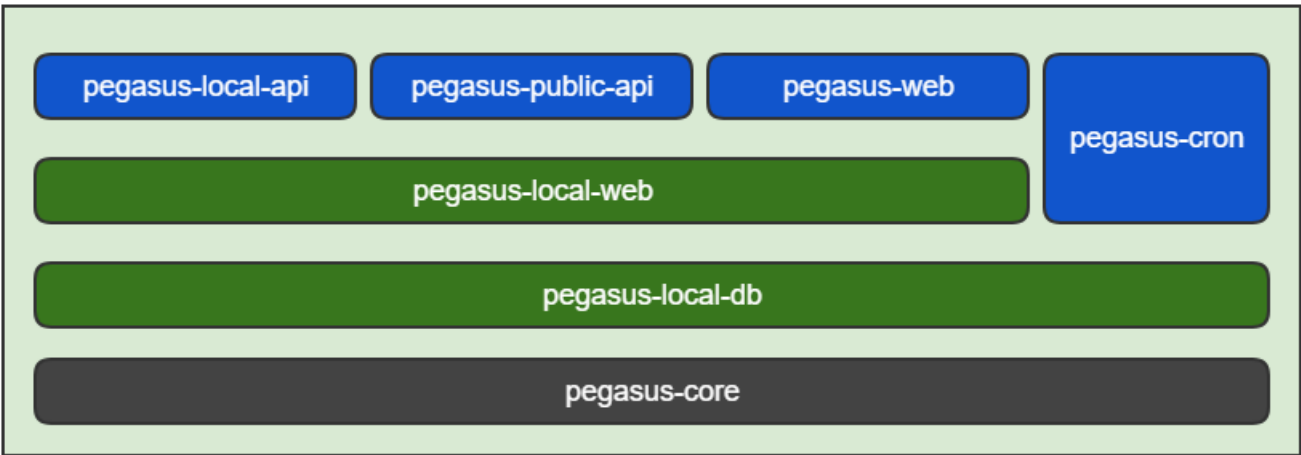
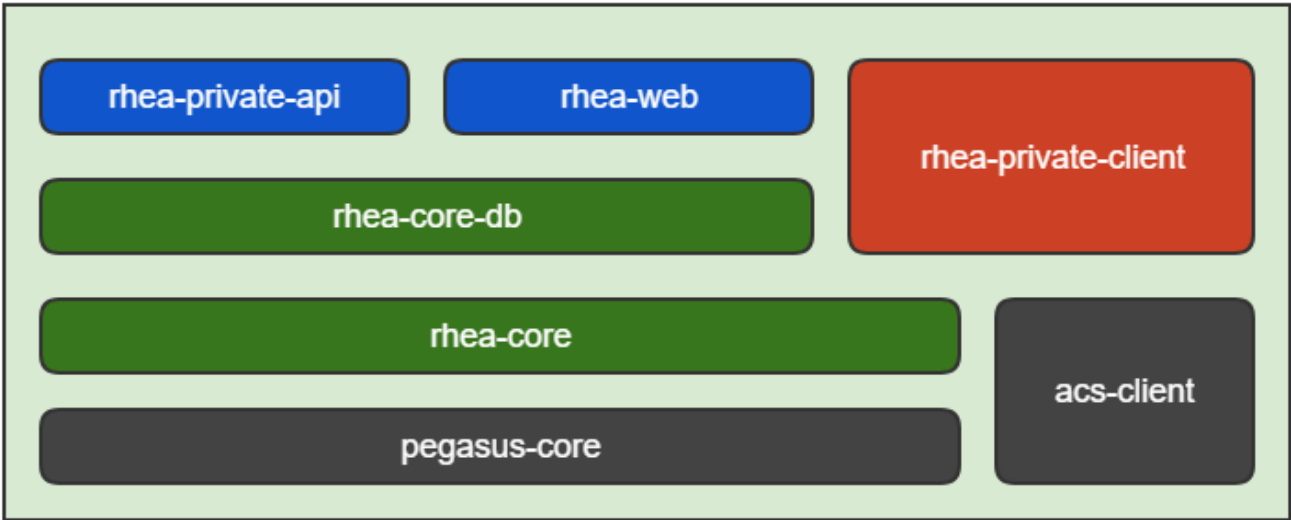| Name | Type | Description | Dependencies |
|---|---|---|---|
| pegasus-core | Library | Data models and common services | acs-core |
| pegasus-core-db | Library | Persistence layer of data models | pegasus-core |
| pegasus-core-hub | Library | Platform message hub service | pegasus-core |
| pegasus-core-web | Library | Platform WEB/REST layer for web-based applications | pegasus-core-db |
| pegasus-dashboard-core | Library | | pegasus-core-web, pegasus-private-client |
| pegasus-dashboard-db | Library | | pegasus-core-db |
| pegasus-dashboard-api | Library | | pegasus-dashboard-db |
| pegasus-dashboard-web-api | Library | | |
| pegasus-private-client | Library | Applications can use this library to integrate with **pegasus-local-api** (see below) | |

## Pegasus Libraries and Applications

**pegasus - https://git.arrowconnect.io/pegasus/pegasus**

| Name | Type | Description | Dependencies |
|------|------|-------------|--------------|
| pegasus-local-db | Library | This library is the CORE of the Pegasus Platform. It contains actual data models, persistence layer, and system logic of all Pegasus Platform services such as tenant management, user management, application management, authentication and authorization, etc. The library is the back-end for pegasus-local-api and pegasus-public-api applications | pegasus-core |
| pegasus-local-web | Library | WEB/REST layer for web-based applications | pegasus-local-db |
| pegasus-local-api | REST Application | Private REST API Application for integration with internal applications. This is the main API application that wraps around the core logic in pegasus-local-db library and exposes them as REST API methods. This application is hosted in PGS Zone only | pegasus-local-web |
| pegasus-public-api | REST Application | Public REST API Application for integration with external clients. This application is the equivalence of pegasus-local-api but for external clients. Control is more restricted and have less functionality than pegasus-local-api. This application is hosted in PGS Zone only | pegasus-local-web |
| pegasus-web | WEB Application | Main web portal. This application is hosted in PGS Zone only | pegasus-local-web |
| pegasus-cron | Server Application | CRON application for background processing. This application is hosted in PGS Zone only | pegasus-local-db |

## Rhea Libraries and Applications

**rhea - https://git.arrowconnect.io/kronos/rhea**

| Name | Type | Description | Dependencies |
|------|------|-------------|--------------|
| rhea-core | Library | Data models | pegasus-core |
| rhea-core-db | Library | Persistence layer for data models | rhea-core |
| rhea-private-api | REST Application | Private REST API Application for integration with internal applications such as Kronos Portal<br>This application is hosted in PGS Zone only | rhea-core, pegasus-core-web, pegasus-private-client |
| rhea-private-client | Library | Client library for applications that want to integrate with rhea-private-api application above | rhea-core, acs-client |
| rhea-web | Web Application | Main web portal.  This application is hosted in PGS Zone only | rhea-core-db, pegasus-core-web |



## Kronos Libraries and Applications

**kronos - https://git.arrowconnect.io/kronos/kronos**

| Name | Type | Description | Dependencies |
|------|------|-------------|--------------|
| kronos-core | Library | Constants | acs-core |
| kronos-core-cloud | Library | This is the main Kronos library that contains data models, persistence, and all system logic | kronos-core, pegasus-core-db, pegasus-private-client |
| kronos-api | REST Application | Public REST API Application for integration with external clients.  This is the main API<br>Application that wraps around all system logic in kronos-core-cloud and exposes as API methods.  This application is hosted in each Zone | kronos-core-cloud, pegasus-core-web |
| kronos-web | Web Application | Main web portal.  This application is hosted in each Zone | kronos-core-cloud, pegasus-core-web |
| kronos-engine | Server Application | This is the main server engine that processes incoming telemetry.  There are many processors<br>with different roles such as persistence, indexing, stream processing, etc.  This application is hosted<br>in each Zone | kronos-core-cloud, pegasus-core-hub |
| kronos-cron | Server Application | This is the main CRON application which manages many CRON processes such as managing firmware management<br>jobs, generating reports in MySQL, etc.  This application is hosted in each Zone | kronos-core-cloud |
| kronos-demo | Web Application | This is the old demo web application that are rarely used today | kronos-core-cloud, pegasus-core-web |
| kronos-sam | Web Application | This application is OBSOLETE | |