



**ALPHAREN CORE-Integrator (ARINT) System**

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# Core-Integrator System Overview

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## What is ARINT Core

**ALPHAREN Core Integrator** (aka **ARINT** or **arint**) system is a framework product for automation, integration and interoperability between *distributed systems* or *data sources* basically aimed to build *API oriented, middleware, frontend* and *backend* applications.

Practically it allows to create small-footprint and focused *business oriented microservices* or to transform "monolith" applications to micro-applications that will act as a *single one* but with a high degree of *maintainability*.

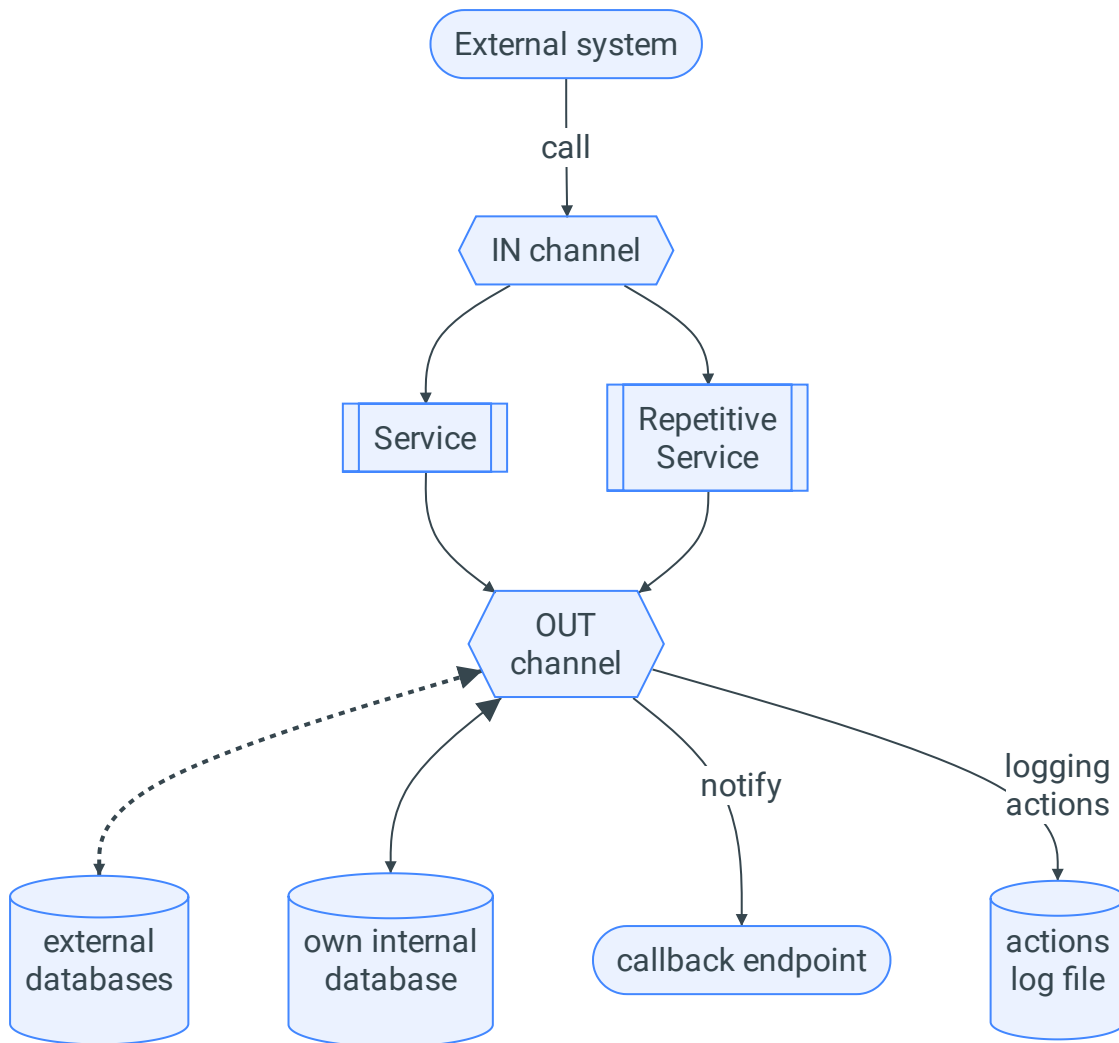
Product is available as *distinct software* or as *ready to run appliance* (including also some built-in components such as an internal database for business operations).



### ARINT as Service bus

ARINT acts as a high level *Service BUS* (ie, ESB or ESOA) to connect different micro-services and to make them to work **as one**. As example it is already used by all *RENware Software Systems* products. Of course it can be used for **CUSTOMER SYSTEMS and SERVICES** too.

**ARINT** generic process flow is:



#### Remarks to diagram

- practically an **IN channel** establish a way to address the ARINT system, how to call it
- a **Repetitive Service** is normally called once (ie, to start it) and it begins to repeat operations (in background) at *defined time intervals* and for a *defined period* (or indefinitely)

## Availability and system "presence"

- **ANYWHERE.** can work even the systems that must be integrated are in different non routable LANs (address systems at **http** protocol level)
- **ANYHOW.** is agnostic to format, composition, structure, encoding of information required / provided by systems that must be integrated
- **ANYTIME.** can work as a distributed high scalable cluster of "**ALPHA-REN Integrator Machines**"
- **SECURED.** can work with any public standard (ie, defined at least as **RFC**) of Internet security

Each ARINT system (cluster containing one or more servers) can run on premises or in cloud deployed as classic software or Docker application container, Kubernetes node / container or as any general containerization

"standard" method.

## Features

For [features list go here](#)

## Typical use cases

**ALPHAREN CORE-Integrator** is used for enterprise, business integrations, data science, IoT and other scenarios that require integrations of multiple systems.

Real-world, production **ALPHAREN CORE-Integrator** environments include:

- A platform for processing payments from consumer devices
- A system for a telecom operators integrating CRM, ERP, Billing and other systems as well as applications of the operator's external partners
- A data science system for processing of information related to securities transactions (FIX)
- A platform for public administration systems, helping achieve healthcare data interoperability through the integration of independent data sources, databases and health information exchanges (HIE)
- A global IoT platform integrating medical devices
- A platform to process events produced by early warning systems, (ex SAP EWS)
- Backend e-commerce systems managing multiple suppliers, marketplaces and process flows B2B platforms to accept and process multi-channel orders in cooperation with backend ERP and CRM systems
- Platforms integrating real-estate applications, collecting data from independent data sources to present unified APIs to internal and external applications
- A system for the management of hardware resources of an enterprise cloud provider
- Online auction sites
- E-learning platforms
- Ad-hoc data API for databases for example to protect them to direct access or to hide particular implementation details (especially in legacy old databases) allowing for a smooth and transparent transition to new redesigned implementations

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