

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 application but with a high degree of maintainability.

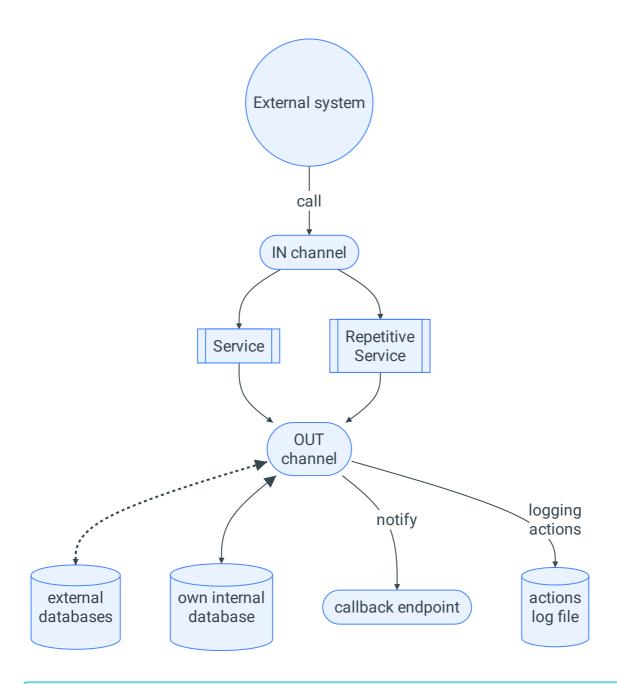
Product is available as distinct software or as ready to run appliance (including also some built-in components such as an internal database for business operations).



#### 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

- the IN channel establish the way to address the ARINT system (how to call it)
- the IN channel establish the security rules in calling the ARINT system (authemtication)
- 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 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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