

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.

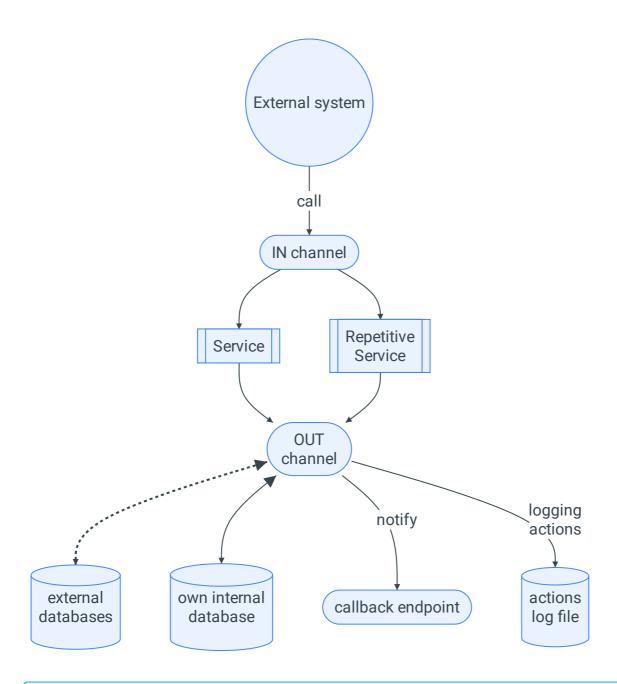
Product is available as distinct software or as ready to run appliance (including also some built-in components such as an internal database for business operations).



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

Last update: August 23, 2023