ALPHAREN CORE-Integrator (ARINT) System

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Basic concepts - in channels and calling a service

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In Channels overview

An **IN channel** is a communication channel defined for *calling (invoking) a service* and act as *request endpoint* seen from outside world.

> **Channel term**
>
> The *IN channel* is also named simple *Channel* meaning that if no other details / hints are given, a "channel" shuld be understood as "IN channel".

Channels can use multiple standard protocols, such as: REST, AMQP, HL7, IBM MQ, JSON RPC, SOAP, Web Sockets, File Transfer protocols, and others.

A channel at request will invoke an existing service.

REST channel definition

For a *REST* channel, the following parameters must be provided:

- Name
- URL path
- Data format
- Service
- Security definition

Name is the ARCLST name of the channel.

URL path is the address of channel endpoint. This is part of ARCLST route, ie `ARCLST_path.../URL_path`.

Data format is the format of data that will be exchanged through this channel. Usual (for REST channels at least) is to specify here *JSON*.

Service is the name of the service that will be called when channel is invoked.

Security represents the security domain that will be applied to this channel.

Other parameters could also be specified here, for example if there are supplementary parameters (like those with ? after the route), header info (for out channels) and so on.

Invoking the channel

General form of invoking path will be: `http://<user>:<password>@ARCLST_path:11223/URL_path`.

The request is normally made thru load balancer (port 11223). The password is those defined at security domain definition.

NOTE: *The first slash (/) from URL path is part of was entered in definition and not is automatically appended. This will allow for combining channels*.

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