



**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" should 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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