



ALPHAREN Integrator (ARINT) System

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Development Overview

Product 0000-0156 0.0 to current version

- 210728 me new doc

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Preliminaries

Development process over ARSRV implies basically the following components:

- **SRV** - service
- **CHN** - channel

Fundamentally and very high level, a service (SRV) use a channel (CHN) to communicate with external environment.

CHN - channel

A channel must be defined in **ARSRV** management interface before use.

The CHN establish:

- an own name which uniquely identifies it
 - the endpoint address
 - the protocol used
 - data formats in messages exchanged thru the channel
 - auth and other security parameters
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SRV - service

A service must be written in Python then deployed to **ARSRV** in order to be used.

A service has the following high level flow:

- defines a handler in order to be accessed by ARSRV
 - obtain any required parameters in order to properly do its job
 - connects to a channel to read required input
 - make the necessary transformation over obtained data
 - connects to a channel to write computed output
 - log any process details for future references and errors debugging
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File names

Development documents (except the current one) will be named as follows:

- `06.DEV` as prefix
 - *optional* a code which specify (only if is case) at which subcomponent or protocol, and so on
 - name of the document
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Services names

The producer reserve a name space for its services (as built in AR Integrator or as future updates) starting with characters **AR**.

The users are free to name how they wants their own developed services, but not start with AR characters. Respecting this rule will allow producer future updates to overwrite *client own developed services*.

This rule should apply as general validity for any components names, for example channel names.

Anyway the customer must be aware that names starting with `AR` characters are reserved and are subject of future changes without any notice or change log.

Last update: August 18, 2023