AuthorizationControl Service SD

**Abstract**

This document defines the AuthorizationControl Service functionality within Arrowhead generation 4.0.

1. Service Description Overview

This document describes an Arrowhead service, including its interfaces, functions and information model.

The AuthorizationControl Service provides 2 different interfaces to look up authorization rights:

* Intra-Cloud authorization: defines an authorization right between a consumer and provider system in the same Local Cloud for a specific Service.
* Inter-Cloud authorization: defines an authorization right for an external Cloud to consume a specific Service from the Local Cloud.

1. Abstract Interfaces

This Service provides two functionalities.

# IntraCloud

An IntraCloudAuthorization request will consist of a consumer System and its requested Service, and a list of potential provider Systems. The response will be a Map where the keys are the provider Systems and the values are booleans indicating wether the consumer System is authorized to use the Service of the provider System.

# InterCloud

An InterCloudAuthorization request will consist of a consumer Cloud and its requested (by its Gatekeeper) Service. The response is a simple boolean indicating wether the Cloud is authroized to get servicing from any of the provider Systems inside the Local Cloud.

1. Abstract Information Model

An IntraCloudAuthRequest contains the following information, as presented in Table 1.

Table 1 IntraCloudAuthRequest type description

|  |  |
| --- | --- |
| **Field** | **Description** |
| Consumer: ArrowheadSystem | The System which requested a Service |
| Providers: Set<ArrowheadSystem> | A list of provider Systems who can provide the Service |
| Service: ArrowheadService | The requested Service |

An InterCloudAuthRequest contains the following information, as presented in Table 2.

Table 2 InterCloudAuthRequest type description

|  |  |
| --- | --- |
| **Field** | **Description** |
| Cloud: ArrowheadCloud | The Cloud requesting a Service from the Local Cloud |
| Service: ArrowheadService | The requested Service |

1. Non-functional Requirements
2. Revision history

# Amendments

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | Date | Version | Subject of Amendments | Author |
| 1 | 2017-09-29 | M2 | Initial | Csaba Hegedűs |
| 2 | 2018-02-14 | M3 | Updating document to M3 | Csaba Hegedűs |
| 3 | 2018-05-22 | G4.0 | Updated document to G4.0 | Zoltán Umlauf |

# Quality Assurance

|  |  |  |  |
| --- | --- | --- | --- |
| No. | Date | Version | Approved by |
| 1 |  |  |  |
| 2 |  |  |  |