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Robot Arm (Provider) HTTP/JSON
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Robot Arm (Provider) HTTP/JSON System Description



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1 Overview

This document describes the Robot Arm Provider system.

The arm is both a provider and a consumer, but since it never works on its own it's labeled as a provider. The goal of the arm is to load or unload a piece of product to/from the tray. It will get data from the two Detectors.



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2 Services

The Detector systems produces and consumes the following services:

2.1 Consumed Services

2.1.1 Service Registry

This service is consumed to make sure that the system becomes accessible to other systems.

2.1.2 Authorization

Used alongside ServiceRegistry to register the services into the cloud.

2.1.3 Orchestration

This service is used to get the information for the consumption of an application system.

2.1.4 Get Detection

Data from one the Detector, used to know if the load/unload process can be safely executed. The request and consumption of this is called by the process of the service that this system produces.

2.2 Produced Services

2.2.1 Load/Unload

This service is produced when requested. It has an input parameter that determines if it needs to load or unload. It will try to load/unload a piece to/from the tray, and send data about the success/failure of this operation.



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3 References

This document alongside any other document linked to this project are based on template documents, that are the description of "Intercloud Contract Negotiation and Automation" system, by Emanuel Palm [emanuel.palm@ltu.se]. I just adapted the template to my system.

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4 Revision History

4.1 Amendments

No.	Date	Version	Subject of Amendments	Author
1				

4.2 Quality Assurance

No.	Date	Version	Approved by
1			