

Sri Lanka Institute of Information Technology

**OSGI Assignment 1 Project Report**

Software Architecture (SA)-SE3030

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1. Description

A simple unit convertor for metrics such as length, weight and temperature developed using Eclipse Equinox with the help of java swing.

1. Diagram
2. Imported Service and Exported Services

Exported Service packages by each bundle

* ConversionLengthPublisher-conversionlengthpublisher
* ConversionWeightPublisher-conversionweightpublisher
* ConversionTemperaturePublisher-conversiontemperaturepublisher

Imported Service packages by each plugin

* ServiceSubscriber - conversionlengthpublisher
* conversionweightpublisher
* conversiontemperaturepublisher

1. Commands used to install and run

- create separate run configurations for each bundle (4 publishers and subscriber)

by selecting Run As => Run Configurations

- start the service publishers run by right clicking the manifest file and selecting Run As => OSGi Framework

-once all are started in the console type ‘lb’. This displays the list of bundles that are currently available.

-using the find tool (Ctrl +F) in the console find the 4 publishers and subscriber by searching for their bundle name and obtain their corresponding bundle id

-type ‘start <bundle id>’ to start a required bundle or ‘stop <bundle id>’ to stop a required bundle.

1. Sample Screenshots