A Multi-Sided Business Platform for Plug and Produce Industrial Product Service Systems

Market4.0 marketplace platform & Redmine
Kostas Sipsas – INTRASOFT Intl.

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Market4.0 marketplace platform and Redmine

1. Overview of functionalities (business related)
2. APIs for development (development related)
3. Redmine

Market4.0 marketplace platform functionality overview

Customer
- Registration.
- Company definition.
- Profile management.
- Search for/browse equipment/production services.
- Purchase form the portal.
- Add feedback.
- Search for/browse apps.
- Purchase and setup of apps.
- Use of apps.

Supplier
- List equipment/ production services.
- View orders.
- Use of apps.

Developer
- List apps.
- View orders.

✓ Roles are used to simplify the user interface. This applies mainly for the customer role.

✓ Suppliers and developers roles overlap and practically have access to all functionalities.

✓ The role can be changed from the user profile.

✓ All role actions are persisted and will not be lost when roles change.

Start with the Market4.0 marketplace

http://platform.market40.eu

- ✓ All functionalities from the previous slide are available.
- ✓ An important step to take advantage of most functionalities is to register a user and define the company.
- ✓ Payments are not live. You may use the following test details:
  - Card number 4242 4242 4242 4242, any future date, any CVC, any post code
  - Bank account: DE89370400440532013000
- ✓ We will provide a user guide describing in detail all the functionalities.

Developing with Market4.0 marketplace platform

1. Automate catalogue data entry.
2. Develop your own IDS ordering app and integrate it with the marketplace cart.

Automate catalogue data entry

1. Use the available Restful APIs.
2. For automated data entry you are mainly interested in the methods exposed by:
   - secure-offering-controller
   - property-and-category-controller
   - image-controller
3. Find the description of the API here: http://platform.market40.eu/swagger-ui.html

Important notes

❖ Methods that require authorization need the header: "*Authorization: Bearer token_value*"

❖ Internationalization requires the header: "*Accept-Language: Alpha-2_country_code*"
  Right now we only support codes: EN, ES, FR, IT, DE. This excludes user generated content.

Integration with the marketplace cart

➢ The marketplace uses its own connector to communicate with IDS apps. For the case of the ordering apps it will send an appropriate IDS message with a payload of the class `TenderBidListDto` in JSON.

➢ The ordering app through its connector has to be able to intercept and interpret the message payload. You may find the message spec at: http://platform.market40.eu/swagger-ui.html

```
TenderBidListDto ∨ {
    bids
                        ∨ [TenderBidDto ∨ {
                            id                  integer($int32)
                            cartItems
                                                ∨ [CartItemDto > {...}]
                            origin              CompanyDto > {...}
                            destination         CompanyDto > {...}
                            status              string
                            startDate           string($date-time)
                            dueDate             string($date-time)
                        }]
    id                  integer($int32)
    destination         string
    status              string
}
```