Life3R

Circular economy ecosystem to Recover, Recycle and Re-use F-gases contributing to the depletion of greenhouse gases - LIFE 3R

Deliverable: Work Package: Buyer-company account management

Action C3

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Abstract

This deliverable focuses on the work package applied for covering the relevant to **R-gas buyers account management** requirements. It is noted that buyers are considered to be the different F-Gas Distribution companies which utilise 3R ECOSYSTEM and especially 3R Marketplace platform by participating in the relevant bidding and trading processes. In the present case, buyers (gas distributors) and Daikin Europe N.V. (DENV) will have the role of user and administrator of the platform, respectively. In particular, the story map of a Distributor Co. admin regarding the management of company account, is the scope of this deliverable document.

Contents

1 Basic scenario

1.1 User Story Map

Any Distributor Co. administrator who either wants to register (new user) or make modifications to an existing company account (registered user) should click the box with the following message: "As Distributor Co. Admin I want to manage company admin account". After that, he / she will be able to choose one of the following functionalities:

1st option → Create company account on R-market.

2nd option →Login to company account (access to company dashboard).

3rd option →Reset password if necessary (forgotten password).
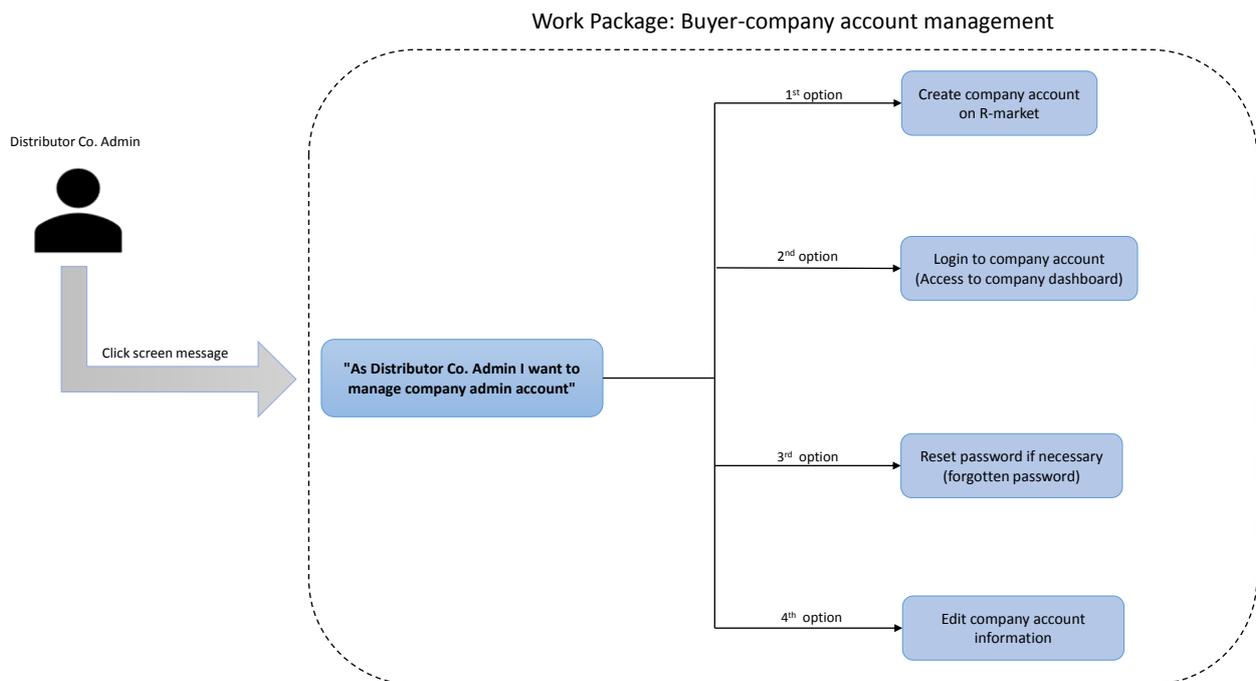
4th option →Edit company account information.

Figure 1: Overview of buyer-company account management.

1.2 Assumptions

Firstly, it has been assumed that large companies will have more than one administrator in charge of administrative tasks regarding buying activities on R-Market. Secondly, a definite separation of roles should be carried out so that not all administrators can have system administrative rightsover company account (change company data, password, user management). Therefore, two administrator categories are proposed:

- <u>System administrator</u> who will have a role with permissions to change company information, adduser/set user active-inactive/delete user etc.

- <u>Market administrator</u> who will have a role with permissions to do administrative tasks regarding buying of R-Gas.

Both administrators will be able to be served by one user account. Furthermore, it is possible that large companies may have need for more than one System administrator. Finally, Distributor companies will not have free access to registration on R-Market but instead they will need to be confirmed by Daikin System Administrator.

2 Analysis of different user stories

2.1 Create company account on R-Market

The Distributor Co. admin selects the first (1st)optionfrom the four (4)options /functionalities available to create an account that will allow him/her to enter the R-Market platform when he /she wishes. Then, all mandatory fields marked with "*" must be completed. A template of user interaction and design for "Distributor Co. Account Registration" form is depicted in **Figure 2**. It is noted that all fields aresensitive to non-English characters.

Figure 2: User interaction and design for "Distributor Co. Account Registration" form.

After registration data is submitted, a relevant request is sent to the Daikin System Administrator who responses positively or negatively via an email. Otherwise, Daikin System Administrator can approve registration and send to Distributor Co. an email with activation link or disapprove registration and send to Distributor Co. an email with notification that request for registration has been denied. This also means that Know Your Client (KYC) guidelines are not needed.

Regarding registration on the platform, the following restrictions apply:

- Cannot register with VAT number that is already assigned to different account in the database.

- Cannot register with licence number that is already assigned to different account in the database.

- Cannot register with email address that is already assigned to different account in the database.

2.2 Login to company account (Access to company dashboard)

The Distributor Co. admin selects the second (2nd) option from the 4 options / functionalities available to login to company account by introducing email and password. Both fields are mandatory and sensitive to non-English characters.A template of user interaction and design for "Distributor Co. Login" form is depicted in **Figure 3**:

Figure 3: User interaction and design for "Distributor Co. Login" form.

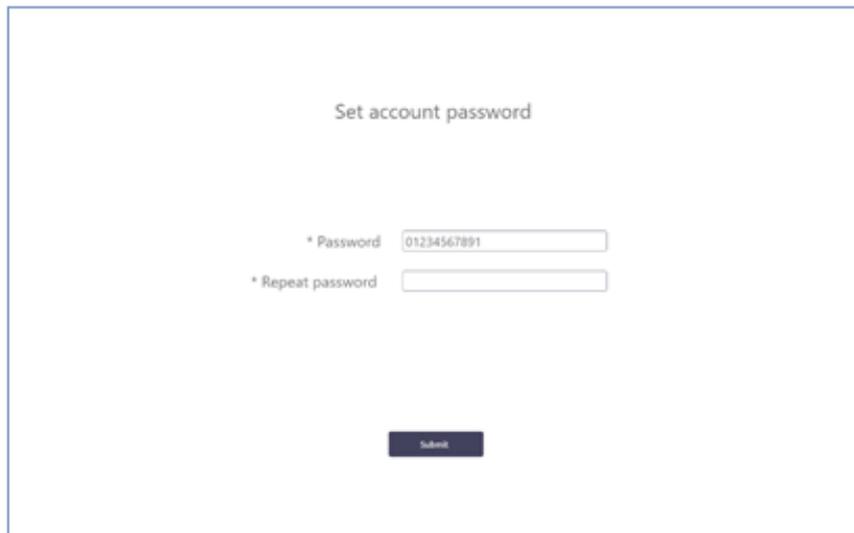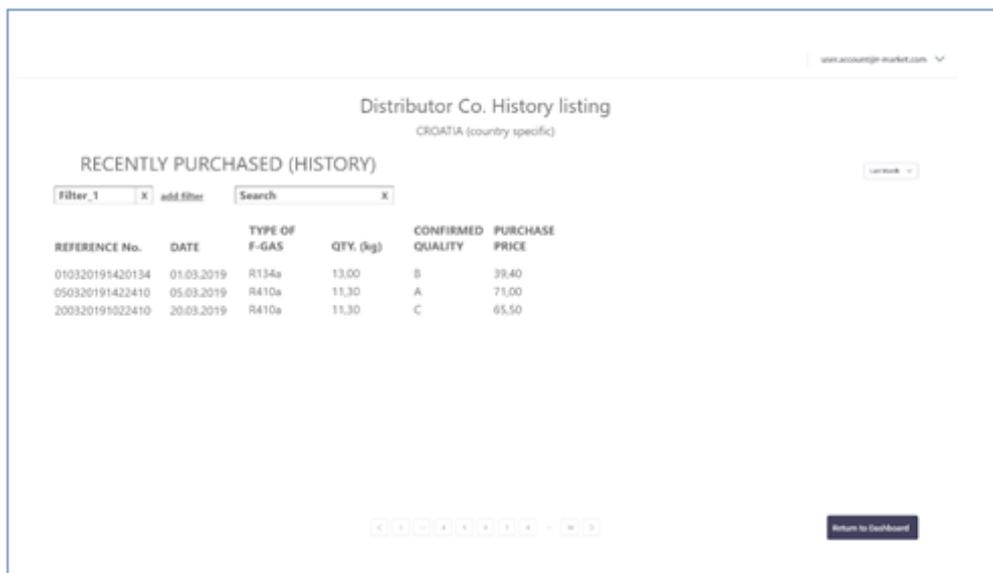In case of first login, new administrator needs to set up a password (**Figure 4**):

Figure 4: User interaction and design for "Set account password" form.

Moreover, any successful login enables access to R-Market platform. Basically, this is company dashboard that will automatically be opened, including the following elements:

▪ **Recently Purchased (HISTORY)**: Reference number/Date/Type of F-Gas/Quantity (kg)/ Confirmed Quality/Price Sold is the information that can be accessed in this thematic. It is noted that "Reference number" is a unique number associated to relative entry for future traceability. Meanwhile, there is also the choice "view all", a hyperlink that opens separate screen with all history listing (**Figure 5**), including date picker.

Figure 5: User interaction and design for "Distributor Co. History listing" form.

▪ **Recently on Stock**: Reference number/Extraction date/Type of F-Gas/Quantity of R-Gas (kg)/Presumed quality/Location/Status is the information that can be accessed in this thematic. It is noted that "Reference number" is a unique number associated to

the relative entry for future traceability. Meanwhile, there is also the choice "view all", a hyperlink that opens R-Market Stock tab.

- **Date Picker, Infographic and Summarized Revenues**.

A template of user interaction and design for "Distributor Co. Dashboard" tab is depicted in **Figure 6.** Dashboard is considered as country specific-currency.
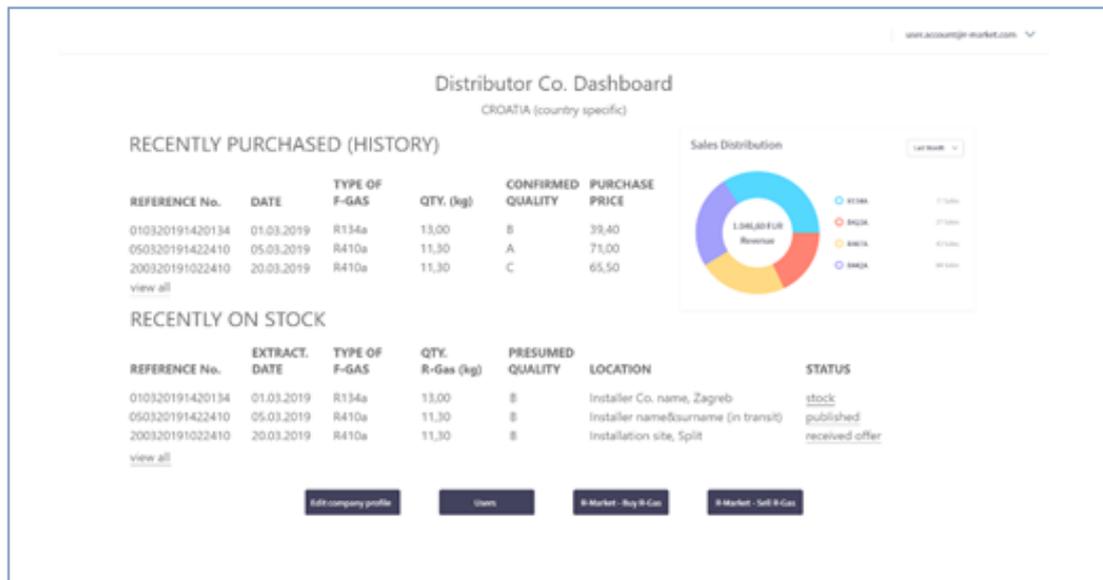

Figure 6: User interaction and design for "Distributor Co. Dashboard" tab.

2.3 Reset password (Forgotten password form)

The Distributor Co. admin selects the third (3rd) option from the 4 options/ functionalities available to access to Forgot Password form so he /she can reset his password if necessary (**Figure 7**). All mandatory fields marked with "*" should be completed by user.
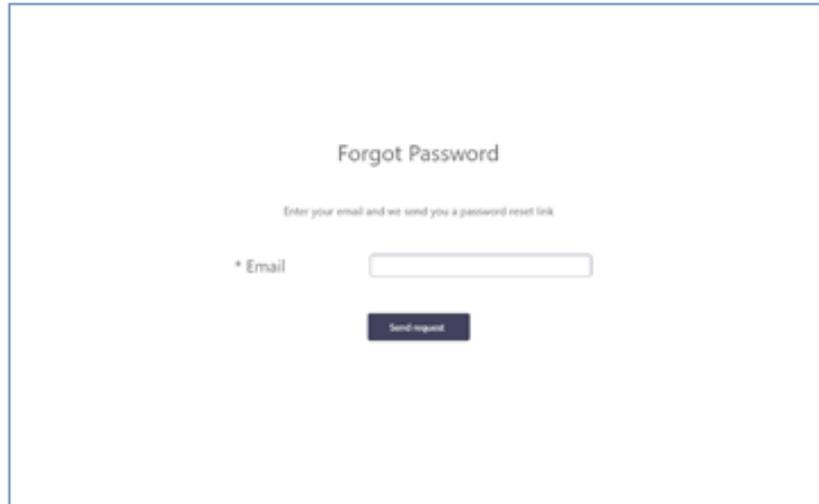
Figure 7: User interaction and design for "Forgot Password" form.

2.4 Edit company account information

The Distributor Co. admin selects the fourth (4ᵗʰ) and last option from the 4 options / functionalities available toedit company account form with a view to updating the relevant account data (**Figure 8**). It is noted that Company name, VAT number, IBAN, licence number and email account cannot be changed. All fields are insensitive to non-English characters, too.
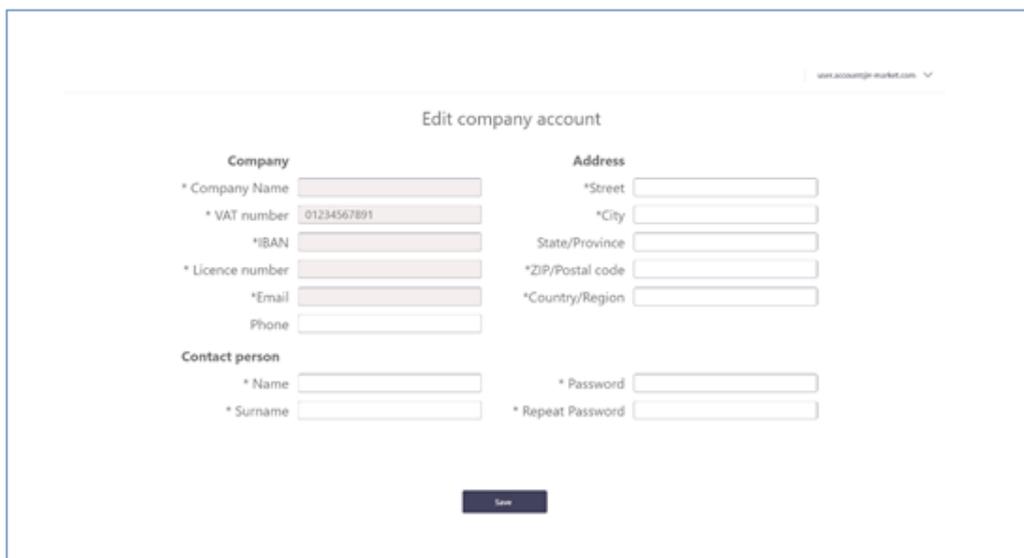

Figure 8: User interaction and design for "Edit company account" form.

3 Future work

Overall, the work package has made a very good progress. However, there are some functionalities from those described above that are still in early stage and should be further improved in the near future. Thus, the following **updates** are considered:

- ❖ Upload licence numbers.

- ❖ System administrator and Market administrator role separation.

- ❖ Add System administrator functionality.

- ❖ R-Gas sell functionalities.