|  |
| --- |
| A blue rectangle with white letters  Description automatically generated |
| **Corporate Digital Banking**  **BSNeBIZ – New API to OCMS Project Server**  **CR24003** |
| Business Requirement and Functional Document |
|  |
| ***(PENRIL/BSN/BRFD\_BSNEBIZ(P2)037)***  ***Revision: 00*** |
| **14th March 2024**  Prepared By:  A close up of a logo  Description automatically generated  **Penril Datability (M) Sdn Bhd (816792-X)**  Suite A-07-07 Plaza Mon’t Kiara  No. 2, Jalan Kiara, Mon’t Kiara  50480 Kuala Lumpur, Malaysia  Tel: (603) 6201 2622Fax: (603) 6201 7622 |

# Document Amendment Log

| **Rev. No** | **Date Update** | **Description of Change** | **Update By**  **<Name, Dept>** | **Review By**  **<Name, dept>** | **Approved By**  **<Name, Dept>** |
| --- | --- | --- | --- | --- | --- |
| 00 | 18/12/2023 | Initial Release | Aziana Jaafar  Quality Engineer | Nurul Athirah  Quality Engineer | Norhaidah Dasuki  Senior Manager |
|  |  |  |  |  |  |

# Table of Content

[Document Amendment Log 1](#_Toc161392222)

[Table of Content 3](#_Toc161392223)

[Business Requirement & Functional Acceptance 4](#_Toc161392224)

[**Section A: Introduction** 5](#_Toc161392225)

[1 Introduction 5](#_Toc161392226)

[1.1 Objective 5](#_Toc161392227)

[1.2 Assumptions 6](#_Toc161392228)

[1.3 Impact Modules 7](#_Toc161392229)

[2 Secure Verification for Monetary Transaction at BSNeBiz 8](#_Toc161392231)

[2.1 Hardware Token (Vasco) 8](#_Toc161392232)

[2.1.1 Process Flow 8](#_Toc161392233)

[2.1.2 Screen Flow 9](#_Toc161392234)

[2.2 Mobile Token 10](#_Toc161392235)

[2.2.1 Process Flow 11](#_Toc161392236)

[2.2.2 Screen Flow 11](#_Toc161392237)

[**Section B: BSNeBiz – New API to OCMS Project Server** 14](#_Toc161392238)

[3 SOW01.0: Integration with OCMS Project Server 14](#_Toc161392239)

[3.1 SOW01.1 New Registration – with or without CIS 14](#_Toc161392241)

[3.1.1 Process Flow 14](#_Toc161392242)

[3.1.2 Screen Flow 14](#_Toc161392243)

[3.2 SOW01.2 Authentication 14](#_Toc161392244)

[3.2.1 Process Flow 14](#_Toc161392245)

# Business Requirement & Functional Acceptance

I/We hereby verify that this Business Requirement & Functional consist of all the requirements requested by BANK SIMPANAN NASIONAL. The implemented system will fulfill ONLY this requirement.

I/We also hereby AGREE that this satisfies our entire requirement for **Enhancement of Expired Password Flow, Email Content And Eye Icon To Password Field.** Any future changes to this agreed scope would be treated as an enhancement to the system. Any future changes to the project timeline will be subjected to the final approval of the project steering committee.

**BANK SIMPANAN NASIONAL:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Approved by** | **Role** | **Signature** | **Date** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

**Penril Datability (M) Sdn. Bhd.:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Approved by** | **Role** | **Signature** | **Date** |
| Norhaidah Bt Md Dasuki | Senior Manager, Profesional Service |  |  |
|  |  |  |  |
|  |  |  |  |

**Section A: Introduction**

# Introduction

This document served as the business requirement and system specification of implementing **BSNeBiz - New API to OCMS Project Server.**

This document shall explain all the features and functionalities, which is elaborating with screen captures, process flow, descriptions, input fields specifications and error messages. All screen designs provided in this document are samples and only illustration purpose for easy understanding. The screen designs are not final.

## Objective

The objective of this document is to capture user requirements of transactional and administration modules of implementing **BSNeBiz - New API to OCMS Project Server.** This document will facilitate development and implementation of the mentioned modules of Internet Banking System for BSNeBiz.

The base line features description and screen designs will become a reference blueprint for the development team to develop the transactional and administration module. Hence, it is crucial that all stakeholders need to ensure the correctness and adequacy of the requirements captured in this document.

All stakeholders involved are expected to review and sign off this document before the development starts. By signing off the document, the stakeholder has endorsed the correctness and accuracy and adequacy of the requirements documented in this document.

## Assumptions

**BSNeBiz - New API to OCMS Project Server**

This module will enhance the New Registration with or without CIS.

1. **New Registration with or without CIS**

New Registration with CIS (Customer Information System): Assuming that the OCMS Project Server may need to integrate with an external system for user registration, such as a CRM or customer database.

New Registration without CIS: Assuming that there's an option for users to register directly within the OCMS Project Server without needing integration with an external system.

1. **Authentication**

Username and Passphrase Authentication: Assuming that users may have the option to log in using a combination of a username and passphrase, where the passphrase could be a more secure form of authentication such as a one-time password or a token generated through another system.

Usernames and Password Authentication: Assuming that users can also log in using the traditional username and password combination.

## Impact Modules

To update impact module section



|  |  |  |  |
| --- | --- | --- | --- |
| System | Modules | Features | Description |
| BSNeBiz | Registration | Field | Integration (API) |
| Login Page | Field | Integration (API) |
|  |  |  |
|  |  |  |  |
|  |  |  |  |

Table 1: BSNeBiz - New API to OCMS Project Server Impact Module

# Secure Verification for Monetary Transaction at BSNeBiz

PIN is required as the second level security authentication for BSNeBiz Role’s Single User and Approver when perform any monetary transactions via online. PIN is a six random digits temporary security code, which is generated and verified by the authentication server.

**There are two types of Secure Verification assign to the user by Corporate Admin:**

1. Hardware Token (Vasco)
2. Mobile Token

## Hardware Token (Vasco)

Hardware token from VASCO is physical device that will be used by Single User and Approver to authorize a monetary transaction using the “Transaction Singing” function; also known as Challenge Response (CR).

### Process Flow



Diagram 1: Hardware Token Flow Diagram

### Screen Flow

***Step 1:***

1. When user in Transaction Confirmation page, BSNeBiz system will required Challenge Response code to proceed the transaction
2. User needs to use Hardware Token to generate the Challenge Response code.

A close-up of a white device

Description automatically generated

Figure 1: Hardware Token

***Step 2:***

1. Users press OK button for 2 seconds to turn on the Token.
2. User key in the 6 digits login PIN (User Password) and press OK.
3. BSN logo will be displayed on the token screen.

A close-up of a calculator

Description automatically generated

Figure 2: Turn on Token Flow

***Step 3:***

1. User press button 2 to change to Challenge Response program.
2. User key in the last 8 digits of recipient account number for Challenge Response.
3. Press OK and Challenge Response code will be displayed.

A close-up of a calculator

Description automatically generated

Figure 3: Get Challenge Response Code Flow

***Step 4:***

1. User use generated Challenge Response from the Token and input to the Challenge Response field in BSNeBiz – Transaction Confirmation pages.

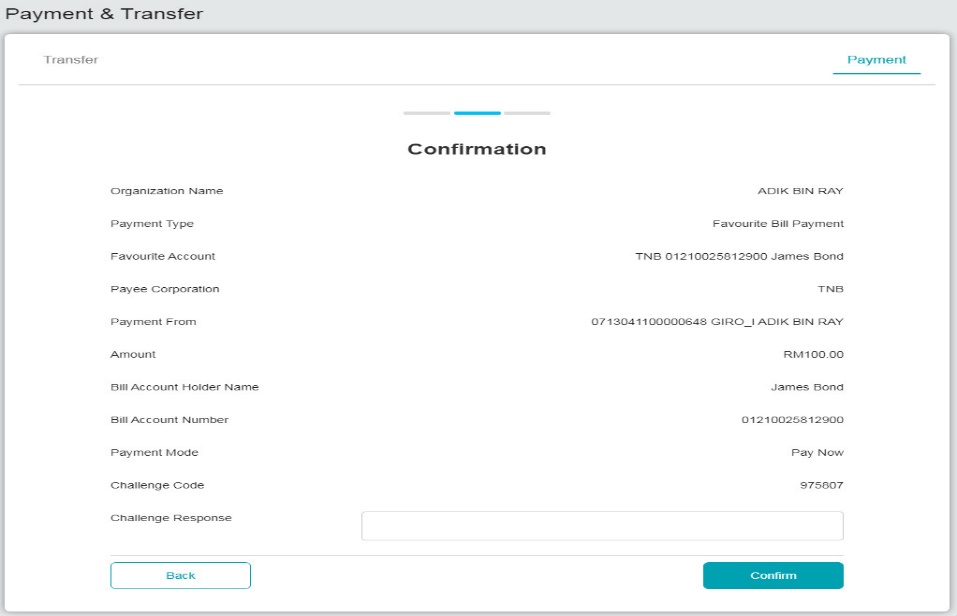


Figure 4: Confirmation page for Hardware Token verification

## Mobile Token

Mobile Token is a mobile application that has the same functionalities as the VASCO Hardware Token using mobile phone features and serves the same usage purpose.

### Process Flow



Diagram 2: Mobile Token Flow Diagram

### Screen Flow

***Step 1:***

1. When user in Transaction Confirmation page with QR code.
2. User needs to use Mobile Apps to scan the QR code to generate the Challenge Response code.

A screenshot of a login screen

Description automatically generated

Figure 5: Mobile Apps screen

***Step 2:***

1. User Login to the Mobile apps and Click on Challenge Respond icon.
2. User scans the QR code generated at IBS confirmation screen.

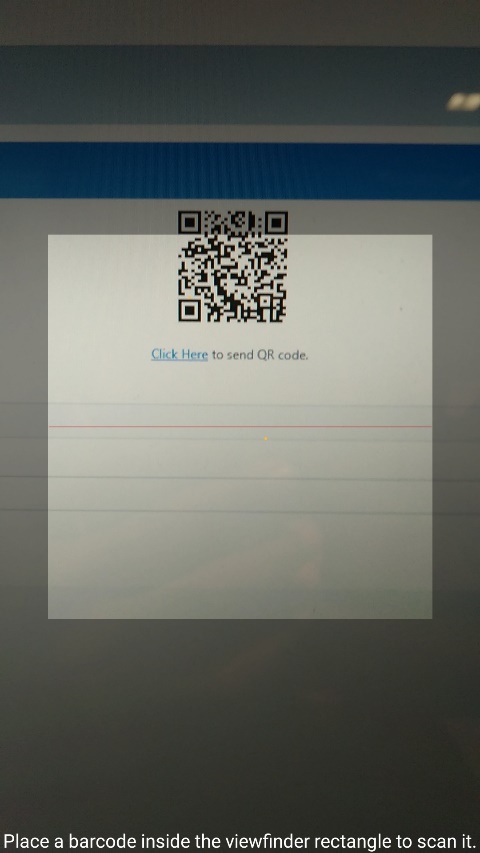


Figure 6: Mobile Apps QR Scan screen

***Step 3:***

1. BSN Application generate and display the Challenge Response code to be used.

A screenshot of a phone

Description automatically generated

Figure 7: Challenge Response Code display Screen

***Step 4:***

1. User use generated Challenge Response from the Mobile Token App and input to the Challenge Response field in BSNeBiz – Transaction Confirmation pages.

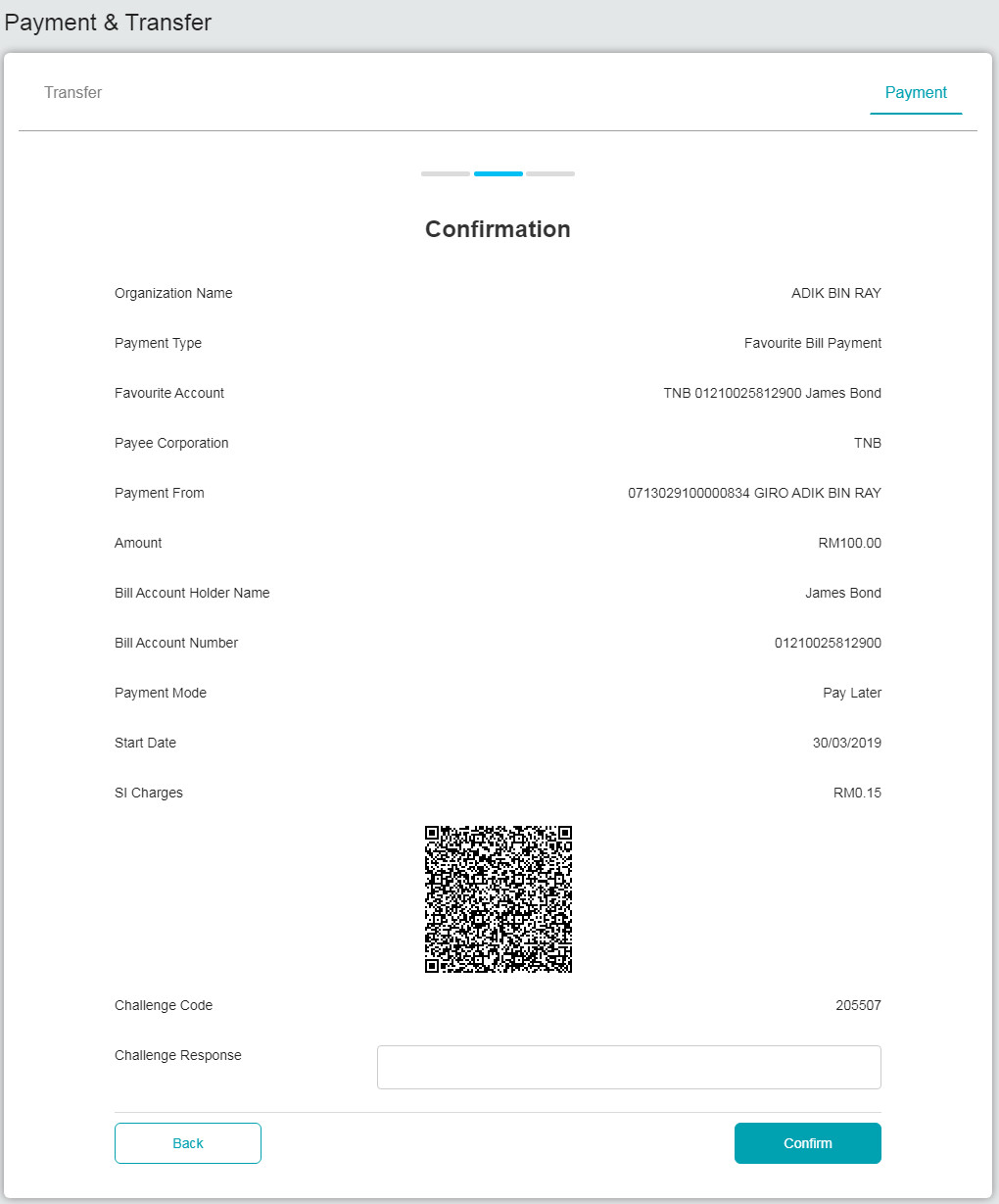


Figure 8: Confirmation page for Mobile Token verification

**Section B:** **BSNe Biz – New API to OCMS Project Server**

# 3 SOW01.0: Integration with OCMS Project Server



## SOW01.1 New Registration

OCMS will be sent the command as per BSNeBiz registration. CIS will be sent by OCMS.

### Process Flow



Diagram 3: Authentication - Register

### Screen Flow

***Step 1:***

1. Customer access to the OCMS login screen.
2. Customer clicks the “Register” button to go to CDB Main Screen.

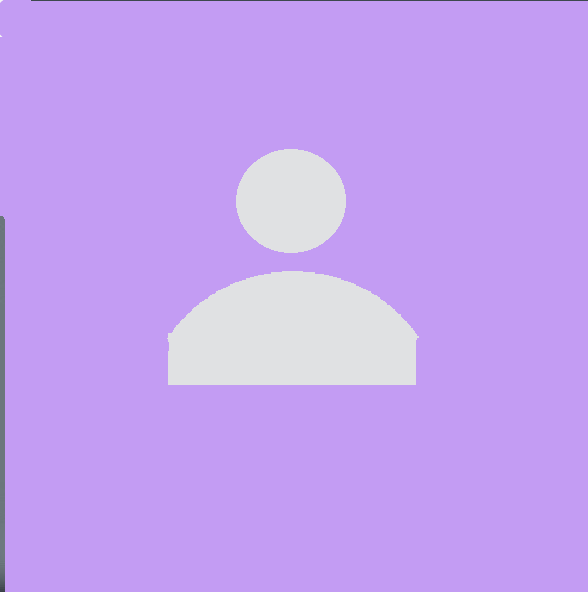


Figure 1: New Application Form – OCMS Login Screen

**Action:**

| **No** | **Action** | **Type** | **Description** |
| --- | --- | --- | --- |
|  | Register | Button | This action will direct user to CDB main page. |

Table 1: OCMS New Application Form

***Step 2:***

1. Customer access to the Registration form by clicking on the “New Application” hyperlink. CDB system displays the online Registration form.

A screen shot of a login page

Description automatically generated

Figure 2: BSNeBiz Login Screen

**Action:**

| **No** | **Action** | **Type** | **Description** |
| --- | --- | --- | --- |
| 1. 1. | New Application | Link | This action will be used to display New Application Form |

Table 2: New Application Action

***Step 3:***

1. Customer inputs the required organization and information fields, and clicks “Next” button, or click “Back” button to go to previous page.
2. CDB System will save the data input.

A screenshot of a computer

Description automatically generated

Figure 3: New Application Form – Organization and Information Screen

**Input Specification:**

| **No** | **Field** | **Field Type** | **Rule** | **Description** | **Required** |
| --- | --- | --- | --- | --- | --- |
|  | Organization Name | Text Box | Max length:64  Alphanumeric | The name of an organization | Yes |
|  | Business Registration No. | Text Box | Max length:16 Alphanumeric | The organization registration No. | Yes |
|  | Organization Address | Text Box | Max length:64  Alphanumeric | The organization address | Yes |
|  | Postcode | Text Box | Match length:5 Numeric | Display the postcode of the organization city located | Yes |
|  | City | Text Box | Max Length: 64  Alphanumeric | Displays the city that the organization is located | Yes |
|  | State | Drop down | List of State:  Select one only | Display the state of the organization located | Yes |
|  | State | Drop down | List of State:  Select one only | Customer’s registration that defines by state | Yes |
|  | Type of company | Radio button | Select one only | Non-government or government | Yes |
|  | Contact Person’s Full Name | Text Box | Max length:64  Alphanumeric | Organization Contact Person’s full name | Yes |
|  | Contact Person’s ID No. | Text Box | Max Length:12  Alphanumeric | Organization Contact Person’s ID No. | Yes |
|  | Contact Person’s Mobile No. | Text Box | Max Length:14  Numeric | Organization Contact Person’s Mobile No. | Yes |
|  | Contact Person’s Email | Text Box | Max length:40  Alpha, numeric, and/or Text combination as long contain this format: <value>@<value>.<value> | Organization Contact Person’s email | Yes |
|  | Corporate Administrator’s Full Name | Text Box | Max length:64  Alphanumeric | Organization Corporate Administrator’s full name | Yes |
|  | Corporate Administrator’s ID No. | Text Box | Max Length:12  Alphanumeric | Organization Corporate Administrator’s ID No. | Yes |
|  | Corporate Administrator’s Mobile Phone No. | Text Box | Max Length:14  Numeric | Organization Corporate Administrator’s Mobile Phone No. | Yes |
|  | Corporate Administrator’s Email | Text Box | Max length:40  Alpha, numeric, and/or Text combination as long contain this format: <value>@<value>.<value> | Organization Corporate Administrator’s email | Yes |

Table 3: New Application Form – Organization and Information Input Specification

**Action:**

| **No** | **Action** | **Type** | **Description** |
| --- | --- | --- | --- |
|  | Back | Button | Contain the action to forward back to previous page |
|  | Next | Button | * Contains the action to do field validation according to requirement mentioned in specification table, also checks for empty and duplicate fields. * Forward the action to save the input fields to database |

Table 4: New Application Form – Organization and Information Action

**List of available messages for the screen:**

| **No.** | **Event** | **Error Description in English** |
| --- | --- | --- |
|  | Did not fill in the required field. | Organization Name is required  Business Registration No.is required  Organization Address is required  Post code is required  City is required  State is required  State is required  Contact Person’s Full Name is required  Contact Person’s ID No.is required  Contact Person’s Mobile No.is required  Contact Person’s Email is required  Corporate Administrator’s Full Name is required  Corporate Administrator’s ID No.is required  Corporate Administrator’s Mobile No.is required  Corporate Administrator’s Email is required |
|  | Unselect the required field | Type of company is required |
|  | Fill in the below fields with special characters   * Postcode * Contact Person’s ID No. * Contact Person’s Mobile No. * Corporate Administrator’s ID No. * Corporate Administrator’s Mobile Phone No. | Please enter a valid number |
|  | Fill in the below fields with less than 9 digits   * Contact Person’s ID No. * Contact Person’s Mobile No. * Corporate Administrator’s ID No. * Corporate Administrator’s Mobile Phone No. | Contact Person’s ID No. cannot be less than 9 digits  Contact Person’s Mobile No. cannot be less than 9 digits  Corporate Administrator’s No. cannot be less than 9 digits  Corporate Administrator’s Mobile No. cannot be less than 9 digits |

Table 5: New Application Form – Organization and Information Available Error Message

***Step 4:***

1. Customer select the subscribing services, input the BSN Corporate Account No fields, select the type of access and clicks the “Next” button to go to next page, or click the “Back” button to go to the previous page.
2. CDB System will save the data input.

A screenshot of a computer

Description automatically generated

Figure 4: New Application Form – Services & Access Type Screen

**Input Specification:**

| **No** | **Field** | **Field Type** | **Rule** | **Description** | **Required** |
| --- | --- | --- | --- | --- | --- |
|  | Services | Checkbox | N/A | Master Checkbox | No |
|  | Online Transfer | Checkbox | N/A | Service to perform online transfer. Checked by default. | No |
|  | Collection Receivable | Checkbox | N/A | Service to perform collection receivable | No |
|  | Bulk Payment | Checkbox | N/A | Service that involves money transfer to perform salary or supplier payment | No |
|  | Auto Debit | Checkbox | N/A | Service facility that automatically settles outstanding bills by deducting corporate savings/current account on a fixed schedule. Checked by default. | No |
|  | Bulk Payment | Checkbox | N/A | Service that involves money transfer to perform salary or supplier payment. Checked by default. | No |
|  | Corporate Card | Checkbox | N/A | Service that to perform corporate card transaction | No |
|  | Statutory Body | Checkbox | N/A | Service that performs statutory body payments such as EPF, SOCSO and LHDN (PCB) | No |
|  | EPF | Checkbox | N/A | EPF will be enabled once statutory service has been selected. | Yes, if statutory body is enabled |
|  | SOCSO | Checkbox | N/A | SOCSO will be enabled once statutory service has been selected. | Yes, if statutory body is enabled |
|  | LHDN (PCB) | Checkbox | N/A | LHDN will be enabled once statutory service has been selected. | Yes, if statutory body is enabled |
|  | ZAKAT | Checkbox | N/A | Service that performs ZAKAT payment | No |
|  | Type of Access | Radio button | Select one | Type of access for company’s user authorizer | Yes |

Table 6: New Application Form – Services & Access Type Input Specification

**Action:**

| **No** | **Action** | **Type** | **Description** |
| --- | --- | --- | --- |
|  | Back | Button | Contain the action to forward back to previous page |
|  | Next | Button | * Contains the action to do field validation according to requirement mentioned in specification table, also checks for empty and duplicate fields. * Forward the action to save the input fields to database |

Table 7: New Application Form – Services & Access Type Action

**List of available messages for the screen:**

| **No.** | **Event** | **Error Description in English** |
| --- | --- | --- |
|  | Did not fill in the required field. | Service(s) is required |
|  | Fill in the below fields with special characters   * BSN Corporate Account | Please enter a valid account number |
|  | Fill in BSN Corporate Account with less than 9 digits | BSN Corporate Account cannot be less than 9 digits |
|  | Did not select any type of access | Type of access is required |

Table 8: New Application Form – Services & Access Type Error Message

***Step 5:***

1. CDB displays the Application’s Summary screen.
2. Customer confirms the registration by clicking on the “Next” button or clicks on the “Back” button to go back to the previous page.

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

Figure 5: New Application Form – Summary Screen

**Display Specification:**

| **No** | **Field** | **Field Type** | **Description** |
| --- | --- | --- | --- |
| **Organization Information and Information** | | | |
|  | Organization Name | Text | The name of an organization |
|  | Business Registration No. | Numeric | The organization registration No. |
|  | Organization Address | Text | The organization address |
|  | Postcode | Numeric | Display the postcode of the organization located |
|  | City | Text | Display the city of the organization located |
|  | State | Text | Display the state of the organization located |
|  | State | Text | Customer application that segregate by state |
|  | Type of company | Radio button | Display type of company selected by customer |
| **Contact Person** | | | |
|  | Contact Person’s Full Name | Text | Organization Contact Person’s full name |
|  | Contact Person’s ID No. | Numeric | Organization Contact Person’s ID No. |
|  | Contact Person’s Mobile No. | Numeric | Organization Contact Person’s Mobile No. |
|  | Contact Person’s Email | Text | Organization Contact Person’s email |
| **Corporate Administrator** | | | |
|  | Corporate Administrator’s Full Name | Text | Organization Corporate Administrator’s full name |
|  | Corporate Administrator’s ID No. | Numeric | Organization Corporate Administrator’s 2 ID No. |
|  | Corporate Administrator’s Mobile No. | Numeric | Organization Corporate Administrator’s Mobile No. |
|  | Corporate Administrator’s Email | Text | Organization Corporate Administrator’s email |
| **Services** | | | |
|  | Services | Checkbox | Master Checkbox |
|  | Online Transfer | Checkbox | BSN Account Number for Services |
|  | Collection Receivable | Checkbox | Services that perform collection receivable |
|  | Bulk Payment | Checkbox | Service that involves money transfer to perform salary or supplier payment |
|  | Auto Debit | Checkbox | Service facility that automatically settles outstanding bills by deducting corporate savings/current account on a fixed schedule. |
|  | Corporate Card | Checkbox | Service that to perform corporate card payment |
|  | Statutory Body | Checkbox | Service that performs statutory body payments such as EPF, SOCSO and LHDN |
|  | LHDN | Checkbox | Service that to perform ZAKAT payment |
| **Type of Access** | | | |
|  | Type of Access | Radio button | Type of access that require workflow or not |
| **Date & Time Stamp** | | | |
|  | Date & Time | Text | Date and time of application created |

Table 9: New Application Form – Summary Display field

**Action:**

| **No** | **Action** | **Type** | **Description** |
| --- | --- | --- | --- |
|  | Back | Button | Contain an action to forward back to previous page. |
|  | Next | Button | Contains an action that proceeds to the next course of action. |

Table 10: New Application Form – Summary Action

***Step 6:***

1. CDB display Terms & Conditions screen.

IF NO:

1. If customer tick on “NO, I DO NOT agree…”, system will prompt “Thank You!...”.

IF YES:

1. Customer, tick on “YES, I agree...” to accept the Terms and Conditions of the usage.
2. CDB display Applicant Declaration form. Customer input the details (Name, IC Number, Email) and click on “Save & Print” button.
3. The system will download the completed registration form as PDF file.
4. Customer clicks on “Submit” button to submit the application for processing.

A screen shot of a application

Description automatically generatedA screenshot of a computer

Description automatically generated

Figure 6: New Application Form – Applicant Declaration Screen

**Input Specification:**

| **No** | **Field** | **Field Type** | **Description** |
| --- | --- | --- | --- |
|  | Yes, I agree with Terms and Conditions | Radio button | Verification of information and consent on terms and conditions |
|  | No, I DO NOT agree with the Terms and Conditions | Radio button | Verification of information and consent on terms and conditions |
|  | Name | Text | Applicant’s name |
|  | IC Number | Numeric | Applicant’s IC number |
|  | Email | Text | Applicant’s email |

Table 11: New Application Form – Applicant Declaration Display field

**Action:**

| **No** | **Action** | **Type** | **Description** |
| --- | --- | --- | --- |
|  | Back | Button | Contain an action to forward back to previous page. |
|  | Save & Download | Button | Contains an action that save the applicant declaration details and download the application’s information in PDF file. |
|  | Submit | Button | Contains an action to submit the application and proceeds to the next course of action. |

Table 12: New Application Form – Applicant Declaration Action

**List of available messages for the screen:**

| **No.** | **Event** | **Error Description in English** |
| --- | --- | --- |
|  | Did not fill in the required field. | Name is required  IC is required  Email is required |

Table 13: New Application Form – Services & Access Type Error Message

***Step 7:***

1. CDB system display Result screen.
2. Customer clicks the “Back to login” button to go to OCMS main screen.

A screenshot of a congratulation

Description automatically generated

Figure 7: New Application Form – Result Screen

**Display Specification:**

| **No** | **Field** | **Field Type** | **Description** |
| --- | --- | --- | --- |
|  | Email | Hyperlink | A list of state group email and BSNeBiz support for document submission and inquiries. |

Table 14: New Application Form – Result Display Fields

**Action:**

| **No** | **Action** | **Type** | **Description** |
| --- | --- | --- | --- |
|  | Back to Login | Button | This action will direct user to OCMS main page. |
|  | Contact Us | Button | This action will direct user to numbers of BSN departments to contact . |

Table 15: New Application Form – Result Action

***Step 8:***

1. Customer access to the OCMS login screen.

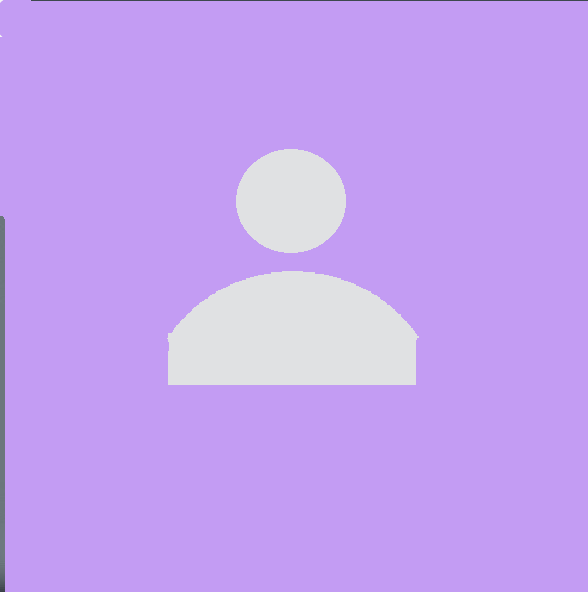


Figure 8: New Application Form – OCMS Login Screen

**Action:**

| **No** | **Action** | **Type** | **Description** |
| --- | --- | --- | --- |
|  | Register | Button | This action will direct user to CDB main page. |

Table 16: New Application Form – Register Action

## SOW01.2 Authentication

To key in username and return passphrase and key in username and password to login.

### Process Flow



Diagram 4: Registration process

### Screen Flow

### User Maintenance

This feature allows IBAM UKB (IBAM UKB ) to view and edit CDB users (with role Corporate UKB (CA)) within a specific Organization.

##### Create Organization User

This feature allows IBAM UKB (IBAM UKB ) to create CDB users (role Corporate Admin only) within a specific Organization.

###### Process Flow

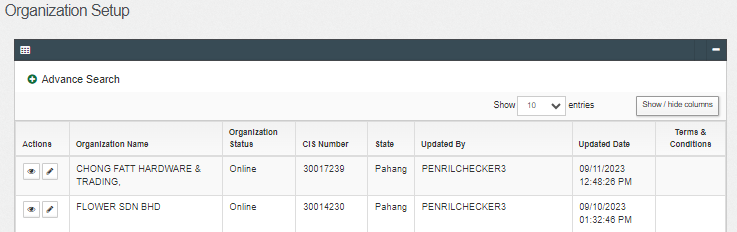


Diagram 10: Create Organization User Process Flow Diagram

###### Screen Flow

***Step 1:***

1. UKB clicks on **Organization Setup** navigation at the left side of the screen.
2. UKB clicks on **“Pencil”** icon button on the selected Organization.

****Figure37: Organization Setup Screen

**Action:**

| **No** | **Action** | **Type** | **Description** |
| --- | --- | --- | --- |
|  | “Pencil” icon | Button | Contain the action to display the selected Organization details |
|  | “Eye” icon | Button | Contain the action to display the selected Organization details |

Table 52: Organization Setup Action

***Step 2:***

1. UKB clicks on the **User Maintenance** tab.
2. IBAM shows the list of registered user under that Organization
3. UKB clicks on the **“Create”**  button.

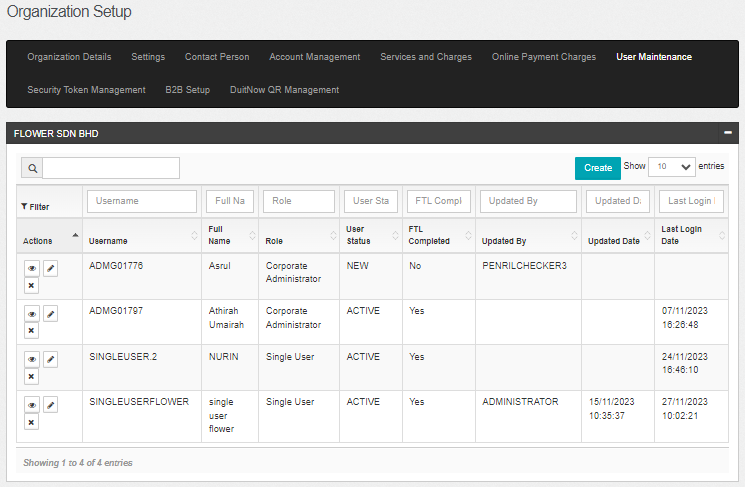
******

Figure 38: User Maintenance List Screen

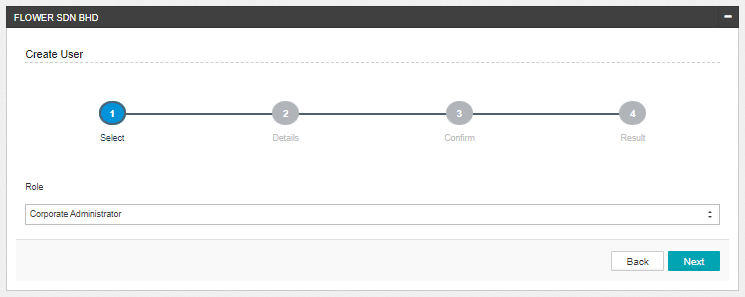
**Action:**

| **No** | **Action** | **Type** | **Description** |
| --- | --- | --- | --- |
|  | “Create” | Button | Contain the action to display Create User page |

Table 53: User Maintenance Action

***Step 3:***

1. IBAM display the Create User - Select screen.
2. UKB User only allow to create Corporate Administrator.

Figure 39: Create User - Select Screen

**Input Specifications:**

| **No** | **Field** | **Field Type** | **Rule** | **Description** | **REQUIRED** |
| --- | --- | --- | --- | --- | --- |
|  | Role | Dropdown List | N/A | Only allow to create CA role | M |

Table 54: Create User - Select Screen Input Specification

**Action:**

|  |  |  |  |
| --- | --- | --- | --- |
| **No** | **Action** | **Type** | **Description** |
|  | Next | Button | Contains an action to display Create User – Details screen |
|  | Back | Button | Contain an action to display back on previous screen. |

Table 55: Create User - Select Screen Action

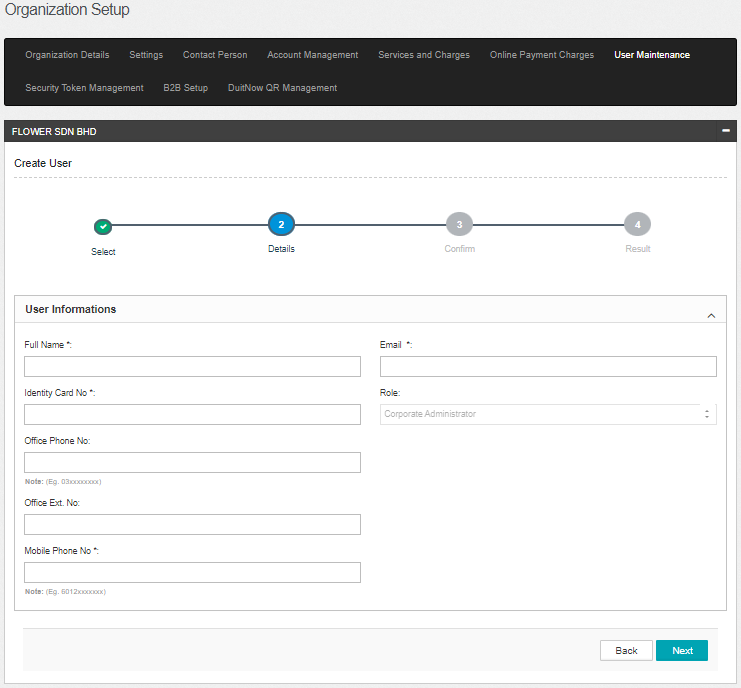


Figure 40: Create User – Details Screen

**Input Specifications:**

| **No** | **Field** | **Field Type** | **Rule** | **Description** | **REQUIRED** |
| --- | --- | --- | --- | --- | --- |
| 1. | Full Name | Text | Max length: 50  Alphanumeric with space @ - . / | User’s Full name | M |
|  | Identity Card No | Text | Max length: 20 Numeric | User Identity Card number | M |
|  | Office Phone No. | Text | Match length:13 Numeric | The user’s office phone number | M |
|  | Office Ext No | Text | Max length: 6 Numeric | The user’s phone extension no | O |
|  | Mobile No. | Text | Match length:13 Numeric | The user’s mobile number | M |
|  | Email | Text | Max length: 50  Alpha, numeric, and/or Text combination as long contain this format: <value>@<value>.<value> | The user’s email address | M |

Table 56: Create User – Details Screen Input Specification

**Display Fields:**

|  |  |  |  |
| --- | --- | --- | --- |
| **No** | **Field** | **Format** | **Description** |
|  | Role | Text | To display the role for the created user. |

Table 57: Create User – Details Screen Display Fields

**Action:**

| **No** | **Action** | **Type** | **Description** |
| --- | --- | --- | --- |
|  | Next | Button | Contain the action to display Create User - Confirm page |
|  | Back | Button | Contain the action to display back on previous screen. |

Table 58: Create User – Details Screen Action

***Step 4:***

1. IBAM display the Create User – Confirm page.

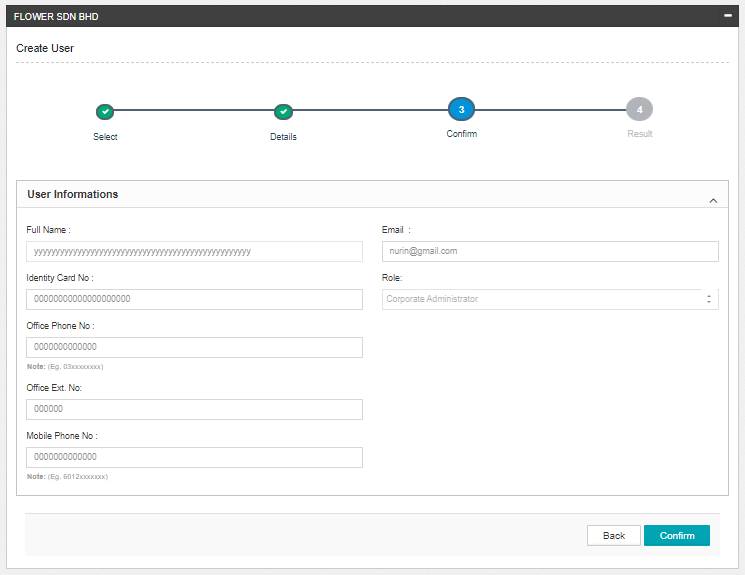


Figure 41: Create User– Confirm Screen

**Action:**

| **No** | **Action** | **Type** | **Description** |
| --- | --- | --- | --- |
|  | Confirm | Button | Contain the action to display Create User – Result page |
|  | Back | Button | Contain the action to display back on previous screen. |

Table 59: Create User– Confirm Screen Action

***Step 5:***

1. IBAM System validates and save the changes to IB Database and displays result page.
2. IBAM shows Successful message and pending for Authorization approval process.

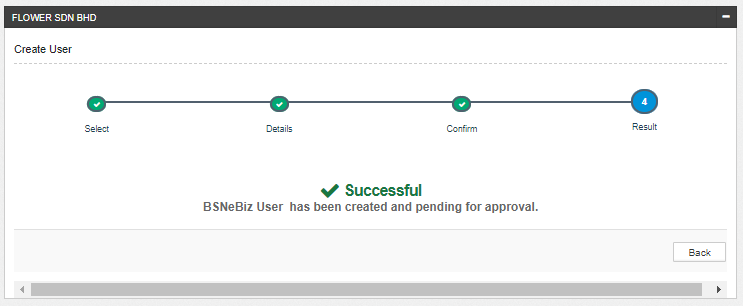


Figure 42: Edit User Details – Result screen

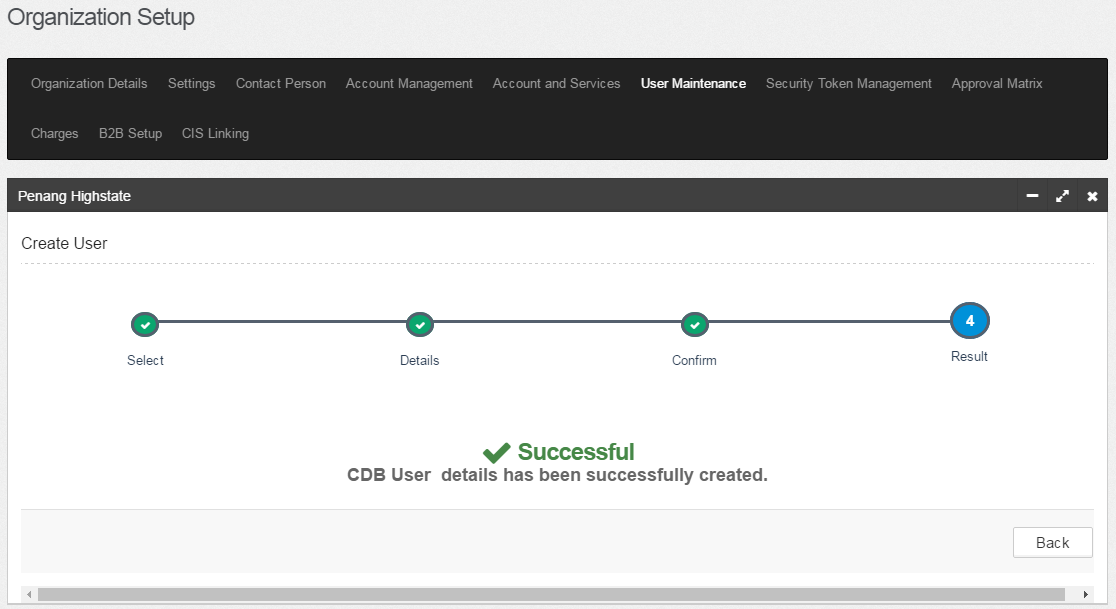


Figure43: Edit User Details – Result Screen with disable Checker Maker Permission

**Display Fields:**

|  |  |  |  |
| --- | --- | --- | --- |
| **No** | **Field** | **Format** | **Description** |
|  | Result Step | Alphanumeric | To display result step |
|  | Status | Alpha numeric | To display result status. |
|  | Result Message | Alpha numeric | To display result message. |

Table 60: Edit User Details – Result Screen Display Field

**Action:**

|  |  |  |  |
| --- | --- | --- | --- |
| **No** | **Action** | **Type** | **Description** |
|  | Back | Button | Contains an action to User Maintenance main page |

Table 61: Edit User Details – Result Screen Action

##### Edit Organization User

This feature allows IBAM UKB (IBAM UKB ) to edit CDB users within a specific Organization.

###### Process Flow

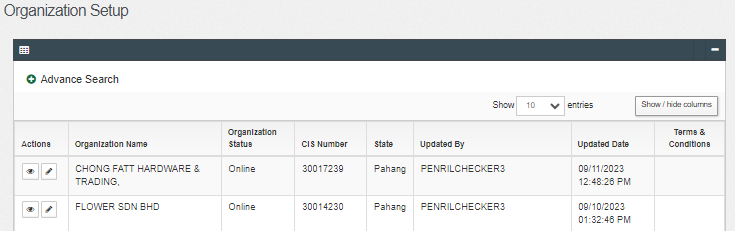


Diagram 11: Edit Organization User Process Flow Diagram

###### Screen Flow

***Step 1:***

1. UKB clicks on **Organization Setup** navigation at the left side of the screen.
2. UKB clicks on **“Pencil”** icon button on the selected Organization.

****Figure 44: Organization Setup Screen

**Action:**

| **No** | **Action** | **Type** | **Description** |
| --- | --- | --- | --- |
|  | “Pencil” icon | Button | Contain the action to edit the selected Organization details |
|  | “Eye” icon | Button | Contain the action to display the selected Organization details |

Table 62: Organization Setup Action

***Step 2:***

1. UKB clicks on the **User Maintenance** tab.
2. IBAM shows the list of registered user under that Organization
3. UKB clicks on the **“pencil’** icon button.

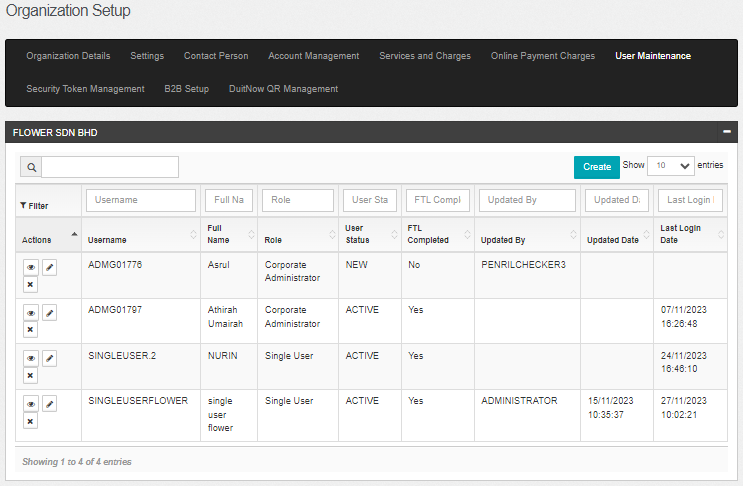
******

Figure 45: User Maintenance List Screen

**Action:**

| **No** | **Action** | **Type** | **Description** |
| --- | --- | --- | --- |
|  | “Pencil” icon | Button | Contain the action to display Edit User Details page |

Table 63: User Maintenance Action

***Step 3:***

1. IBAM display the Edit User Detail screen.
2. For Corporate User role, UKB User can choose either to edit in **User Information**, **Allow Service** or **Accessable Account**.
3. For Corporate UKB role, UKB User only can edit in **User Information**.

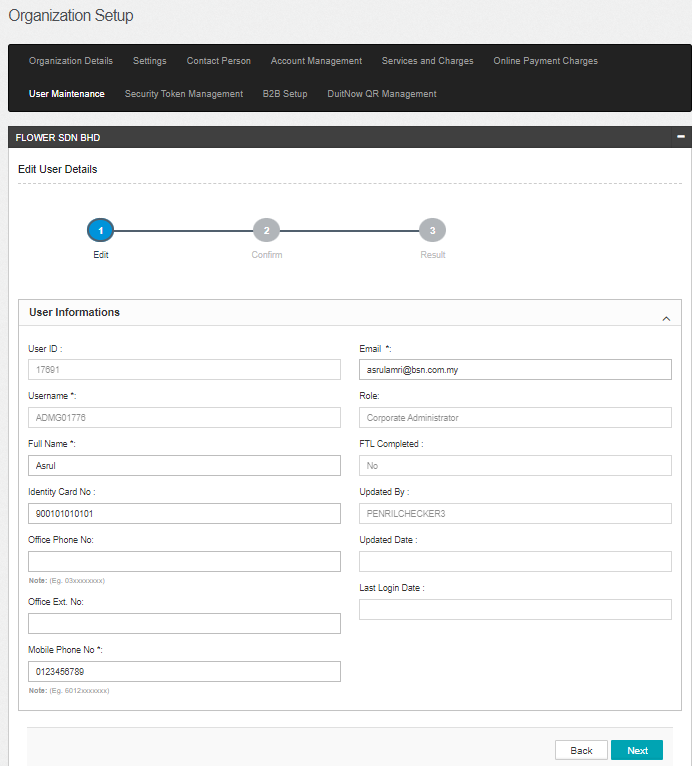


Figure 46: Edit User Details (User Information) Screen

**Display Fields:**

|  |  |  |  |
| --- | --- | --- | --- |
| **No** | **Field** | **Format** | **Description** |
|  | User ID | Text | Display the User ID for the selected user. |
|  | Username | Text | Display the Username for the selected user. |
|  | Role | Text | Display the role for the selected user. |
|  | FTL Completed | Text | Display the FTL status for the selected user. |
|  | Updated By | Text | Display the Username that updated the selected user. |
|  | Updated Date | Text | Display the Updated Date for the selected user. |
|  | Last Login Date | Text | Display the Last Login Date for the selected user. |

Table 64: Edit User Details Screen Display Field

**Input Specifications:**

| **No** | **Field** | **Field Type** | **Rule** | **Description** | **REQUIRED** |
| --- | --- | --- | --- | --- | --- |
|  | Full Name | Text | Max length: 64  Alphanumeric with Space | User’s Full name | M |
|  | Identity Card No | Text | Max length: 20 | User’s ID number | M |
|  | Office Phone No. | Text | Match length: 13  Numeric | The user’s office phone number | O |
|  | Office Ext. No | Text | Max length: 6 Numeric | The user’s phone extension no | O |
|  | Mobile Phone No. | Text | Match length: 13 Numeric | The user’s mobile number | M |
|  | Email Address | Text | Max length: 50  Alpha, numeric, and/or Text combination as long contain this format: <value>@<value>.<value> | The user’s email address | M |

Table 65: Edit User Details Screen Input Specification

**Action:**

| **No** | **Action** | **Type** | **Description** |
| --- | --- | --- | --- |
|  | Next | Button | Contain the action to display Edit User - Confirm page |
|  | Back | Button | Contain the action to display back on previous screen. |

Table 66: Edit User Details Action

***Step 4:***

1. IBAM display the Edit User – Confirm page.

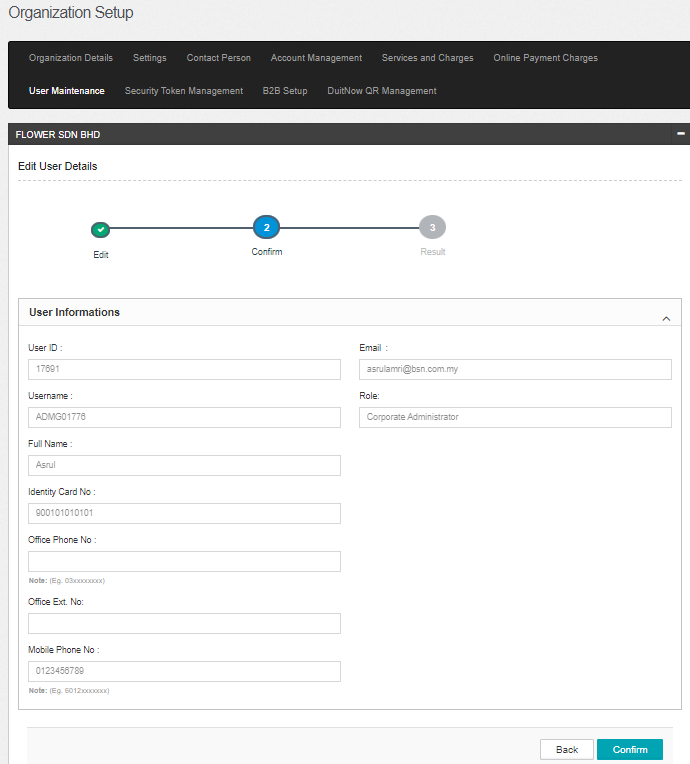


Figure 47: Edit User Details - Confirm Screen

**Action:**

| **No** | **Action** | **Type** | **Description** |
| --- | --- | --- | --- |
|  | Confirm | Button | Contain the action to display Edit User - Result page. |
|  | Back | Button | Contain the action to display back on previous screen. |

Table 67: Edit User Details Action

***Step 5:***

1. IBAM System validates and save the changes to IB Database and displays result page.
2. IBAM shows Successful message and pending for Authorization approval process.

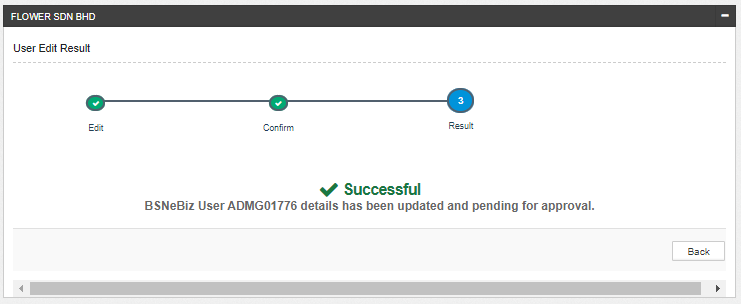


Figure 48 : Edit User - Result Screen

If User Maintenance Module Maker Checker Permission set as ‘Disable’

1. IBAM saves the update information and display the successful result page.
2. IBAM shows Successful message and will shows update information without any approval process.

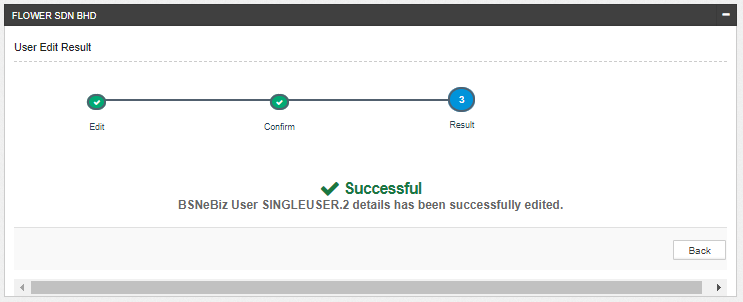


Figure 49 : Edit User - Result Screen with disable Checker-Maker Permission

**Display Fields:**

|  |  |  |  |
| --- | --- | --- | --- |
| **No** | **Field** | **Format** | **Description** |
|  | Result Step | Alphanumeric | To display result step |
|  | Status | Alpha numeric | To display result status. |
|  | Result Message | Alpha numeric | To display result message. |

Table 68: Edit User – Result Screen Display Field

**Action:**

|  |  |  |  |
| --- | --- | --- | --- |
| **No** | **Action** | **Type** | **Description** |
|  | Back | Button | Contains an action to User Maintenance main page |

Table 69: Edit User – Result Screen Action

##### Delete Organization User

This feature allows IBAM UKB to delete CDB users within a specific Organization.

###### Process Flow

Diagram 12: Delete Organization User Process Flow Diagram

###### Screen Flow

***Step 1:***

1. UKB clicks on **“x”** button.

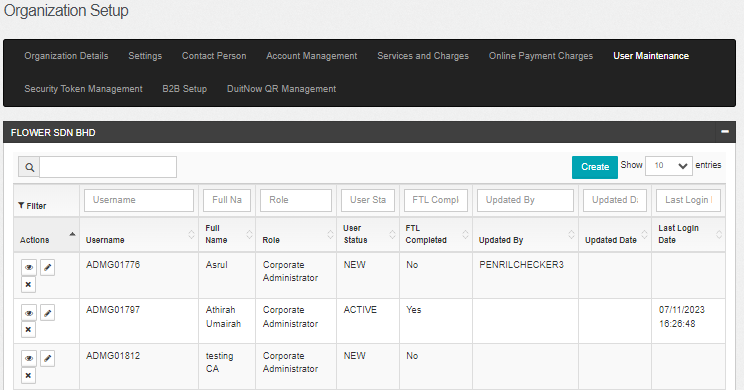


Figure 50 : User Maintenance Screen

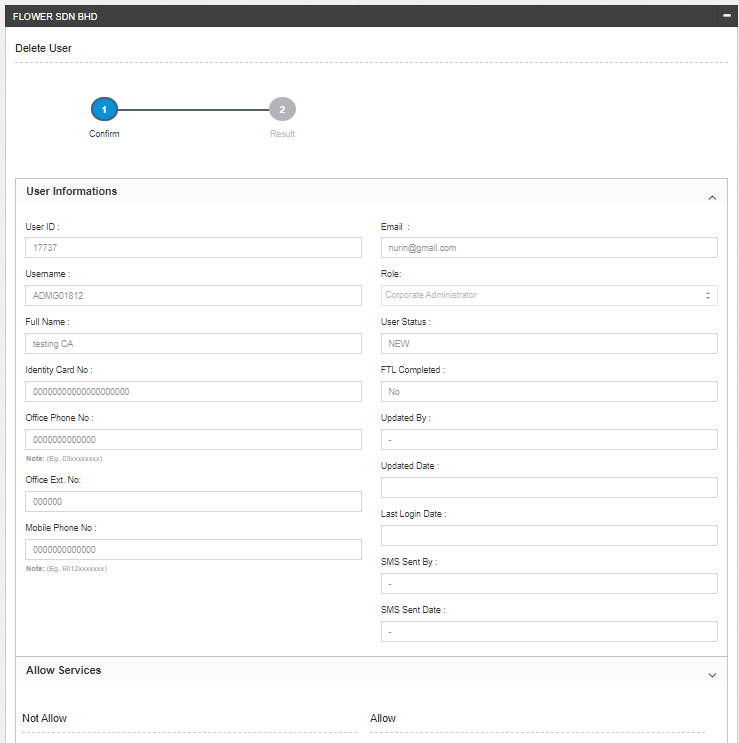
**Action:**

| **No** | **Action** | **Type** | **Description** |
| --- | --- | --- | --- |
| 1. | “X” icon | Button | Contain the action to Delete User – Confirm page |

Table 70: Delete Organization User Confirmation Action

***Step 2:***

1. IBAM display Delete User confirmation page.
2. UKB clicks on **Confirm** button.



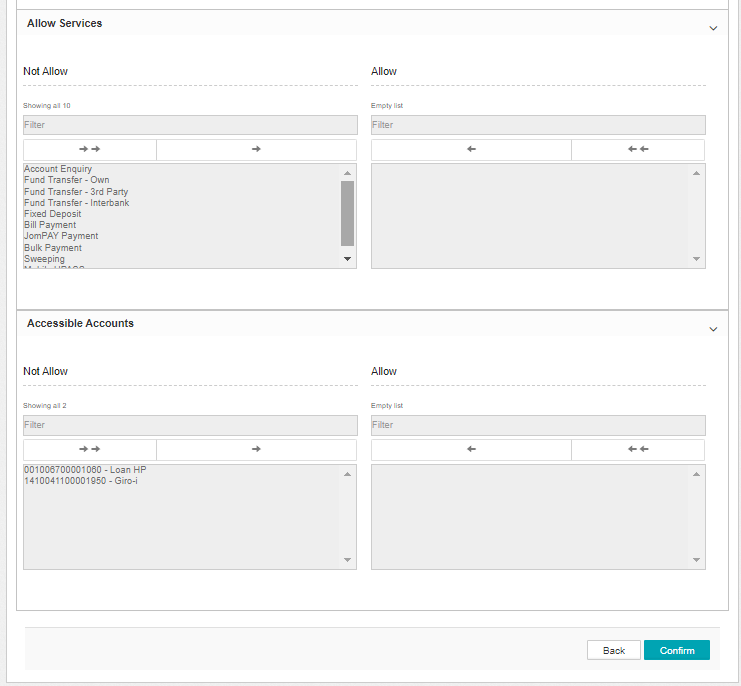


Figure 51 : Delete Organization User Confirmation Screen

**Action:**

| **No** | **Action** | **Type** | **Description** |
| --- | --- | --- | --- |
| 1. | Confirm | Button | Contain the action to Delete User – Result page. |
| 2. | Back | Button | Goes back to User Maintenance page. |

Table 71: Delete Organization User Confirmation Action

***Step 2:***

1. IBAM System validates and save the changes to IB Database and displays result page.
2. IBAM shows Successful message and pending for Authorization approval process.

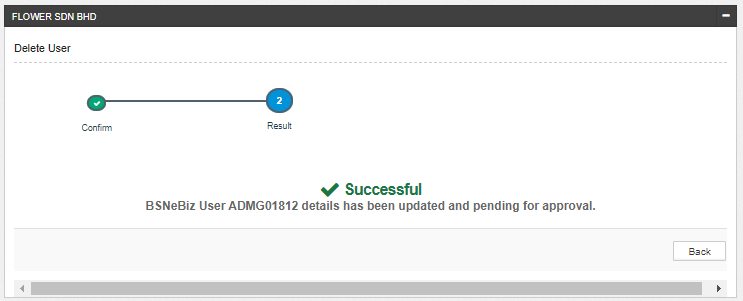


Figure 52 : Delete Organization User Result Screen

If User Maintenance Module Maker Checker Permission set as ‘Disable’

1. IBAM saves the update information and display the successful result page.
2. IBAM shows Successful message and will shows update information without any approval process.

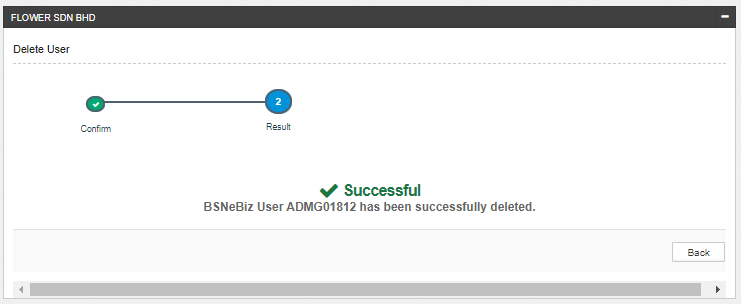


Figure 53 : Delete Organization User Result Screen with disable Checker-Maker Permission

**Display Fields:**

|  |  |  |  |
| --- | --- | --- | --- |
| **No** | **Field** | **Format** | **Description** |
|  | Result Step | Alphanumeric | To display result step |
|  | Status | Alpha numeric | To display result status. |
|  | Result Message | Alpha numeric | To display result message. |

Table 72: Delete User– Result Screen Display Field

**Action:**

|  |  |  |  |
| --- | --- | --- | --- |
| **No** | **Action** | **Type** | **Description** |
|  | Back | Button | Contains an action to User Maintenance main page |

Table 73: Delete User– Result Screen Action

##### Block Organization User

This feature allows IBAM UKB to block CDB users within a specific Organization.

###### Process Flow

Diagram 13: Block Organization User Process Flow Diagram

###### Screen Flow

***Step 1:***

1. On User Maintenance page, user clicks on “**eye**” icon button.
2. IBAM system displays the User Details page.
3. UKB click on “**Block**” button.

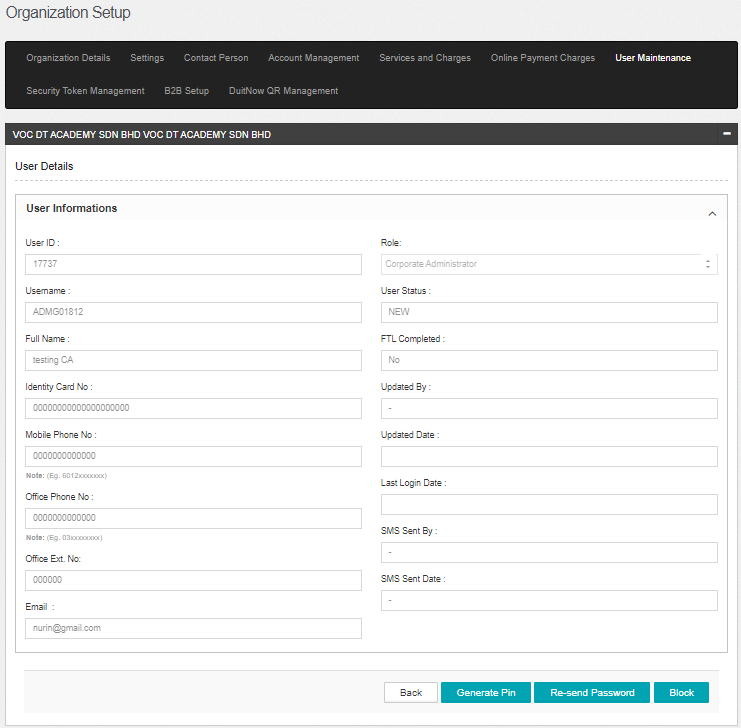
******

Figure 54 : User Details - Block Screen

**Action:**

| **No** | **Action** | **Type** | **Description** |
| --- | --- | --- | --- |
| 1. | Block | Button | Contain the action to display confirmation message pop up. |

Table 74: User Details – Block Action

***Step 2:***

1. IBAM display confirmation screen.

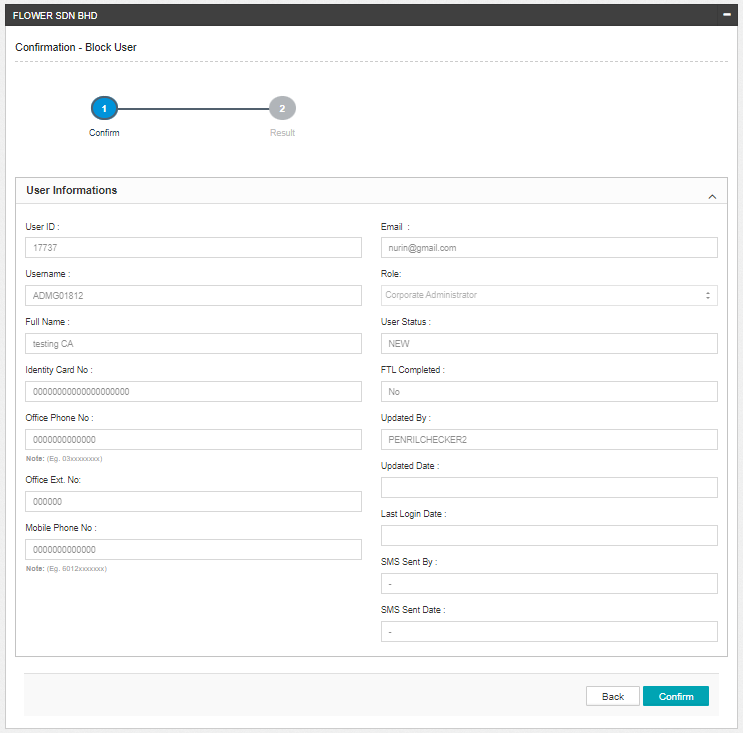


Figure 55: Block User Confirmation Pop up Screen

**Action:**

| **No** | **Action** | **Type** | **Description** |
| --- | --- | --- | --- |
| 1. | Confirm | Button | Contain the action to Block the Organization user and display the result screen. |
| 2. | Back | Button | Contain the action to display back to Organization user details page. |

Table 75: Block User Confirmation Screen Action

***Step 3:***

1. IBAM System validates and save the changes to IB Database and displays result page.
2. IBAM shows Successful message and pending for Authorization approval process.

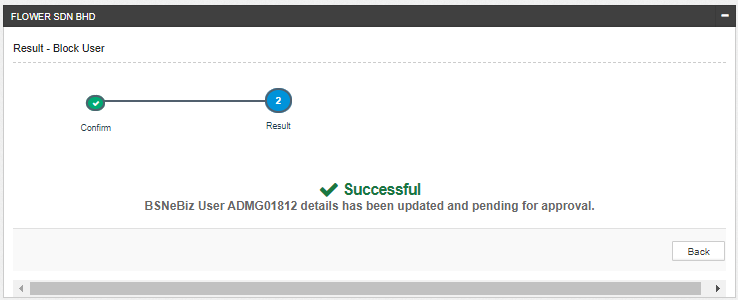


Figure 56: Block Organization – Result Screen

If User Maintenance Module Maker Checker Permission set as ‘Disable’

1. IBAM saves the update information and display the successful result page.
2. IBAM shows Successful message and will shows update information without any approval process.

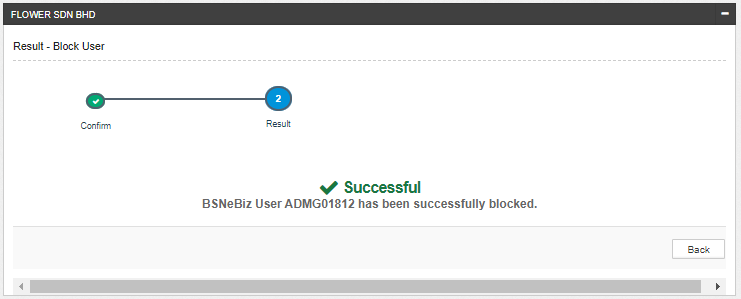


Figure 57: Block Organization – Result Screen with disable Checker Maker Permission

**Display Fields:**

|  |  |  |  |
| --- | --- | --- | --- |
| **No** | **Field** | **Format** | **Description** |
|  | Result Step | Alphanumeric | To display result step |
|  | Status | Alpha numeric | To display result status. |
|  | Result Message | Alpha numeric | To display result message. |

Table 76: Block User– Result Screen Display Field

**Action:**

|  |  |  |  |
| --- | --- | --- | --- |
| **No** | **Action** | **Type** | **Description** |
|  | Back | Button | Contains an action to User Maintenance main page |

Table 77: Block User– Result Screen Action

##### Activate Organization User

This feature allows IBAM UKB to activate CDB users within a specific Organization. Active button only display for user with status:

* Blocked

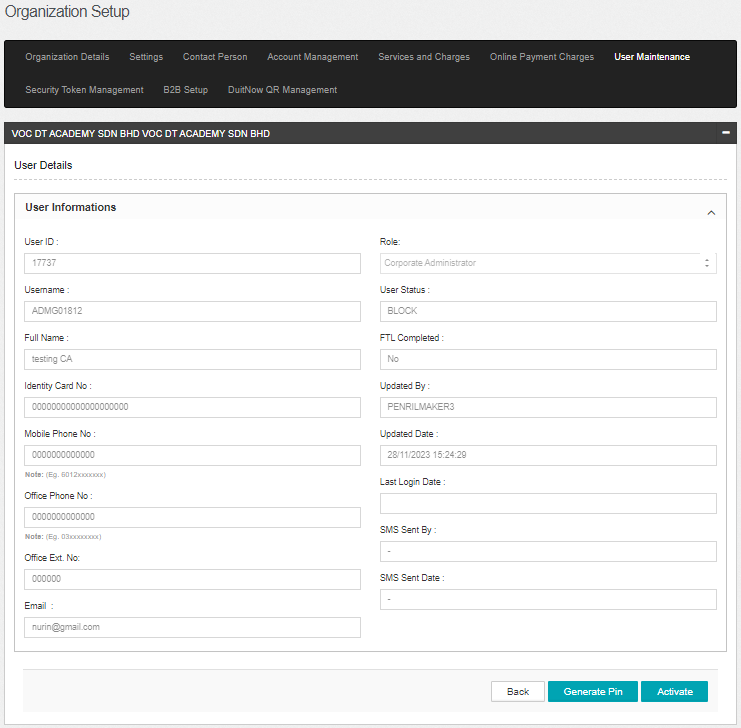
###### Process Flow

Diagram 14: Activate Organization User Process Flow Diagram

###### Screen Flow

***Step 1:***

1. On User Maintenance page, user clicks on “eye” icon button.
2. IBAM system displays the User Details page.
3. UKB click on “Activate” button.

Figure 58: User Details Screen

**Action:**

| **No** | **Action** | **Type** | **Description** |
| --- | --- | --- | --- |
| 1. | Activate | Button | Contain the action to display confirmation message pop up. |

Table 78: User Details Action

***Step 2:***

1. IBAM display confirmation screen

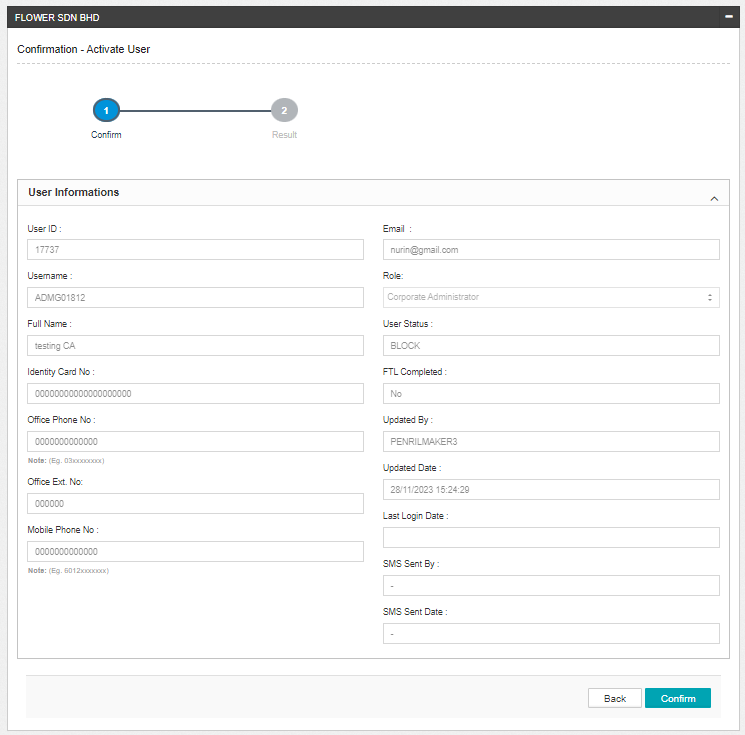


Figure59: Activate User Confirmation Pop up Screen

**Action:**

| **No** | **Action** | **Type** | **Description** |
| --- | --- | --- | --- |
| 1. | Confirm | Button | Contain the action to activate the Organization user. |
| 2. | Back | Button | Contain the action display back to Organization user details page. |

Table 79: Activate User Confirmation Screen Action

***Step 3:***

1. IBAM System validates and save the changes to IB Database and displays result page.
2. IBAM shows Successful message and pending for Authorization approval process.

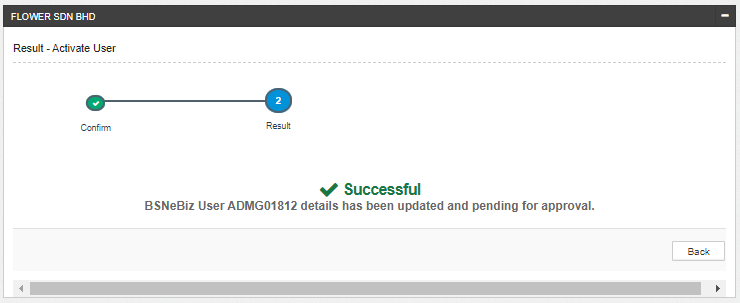


Figure 60: Activate User – Result Screen

If User Maintenance Module Maker Checker Permission set as ‘Disable’

1. IBAM saves the update information and display the successful result page.
2. IBAM shows Successful message and will shows update information without any approval process.

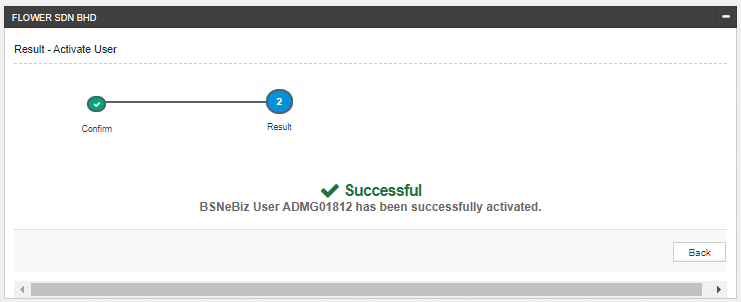


Figure 61: Activate User – Result Screen with disable Checker Maker Permission

**Display Fields:**

|  |  |  |  |
| --- | --- | --- | --- |
| **No** | **Field** | **Format** | **Description** |
|  | Result Step | Alphanumeric | To display result step |
|  | Status | Alpha numeric | To display result status. |
|  | Result Message | Alpha numeric | To display result message. |

Table 80: Activate User– Result Screen Display Field

**Action:**

|  |  |  |  |
| --- | --- | --- | --- |
| **No** | **Action** | **Type** | **Description** |
| 1. | Back | Button | Contains an action to User Maintenance page |

Table 81: Activate User– Result Screen Action

##### Unlock Organization User

This feature allows IBAM UKB to unlock CDB users within a specific Organization. “Unlock” button only display for user with status:

* Locked

###### Process Flow

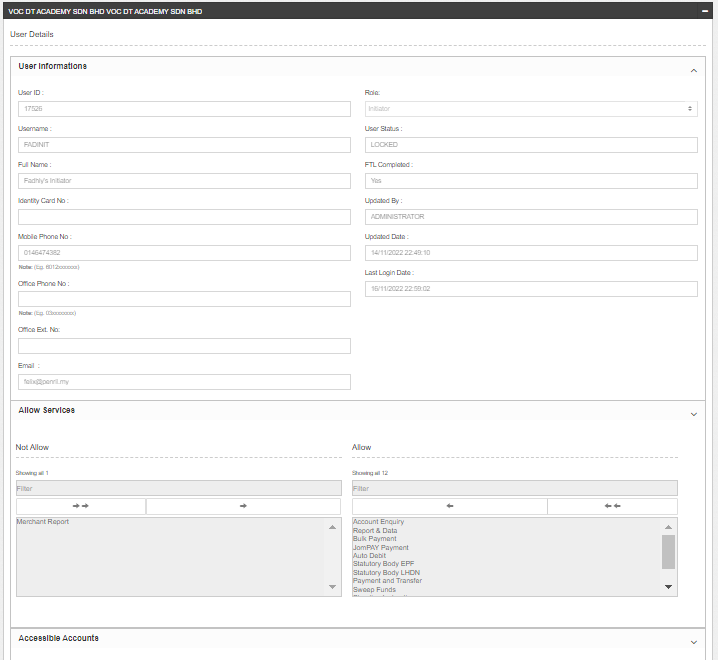


Diagram 15: Activate Organization User Process Flow Diagram

###### Screen Flow

***Step 1:***

1. On User Maintenance page, user clicks on “eye” icon button.
2. IBAM system displays the User Details page.
3. UKB click on “Unlock” button.

******

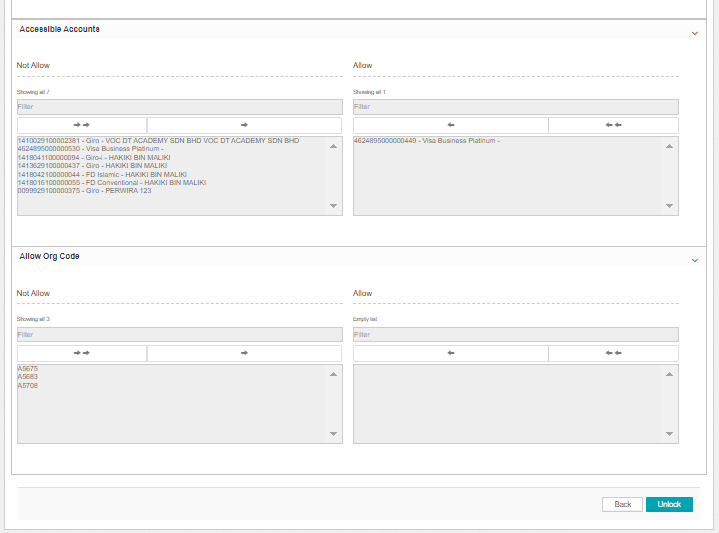
******

Figure 62: User Details Screen

**Action:**

| **No** | **Action** | **Type** | **Description** |
| --- | --- | --- | --- |
| 1. | Unlock | Button | Contain the action to display unlock confirmation screen. |

Table 82: User Details Action

***Step 2:***

1. IBAM display unlock confirmation screen.

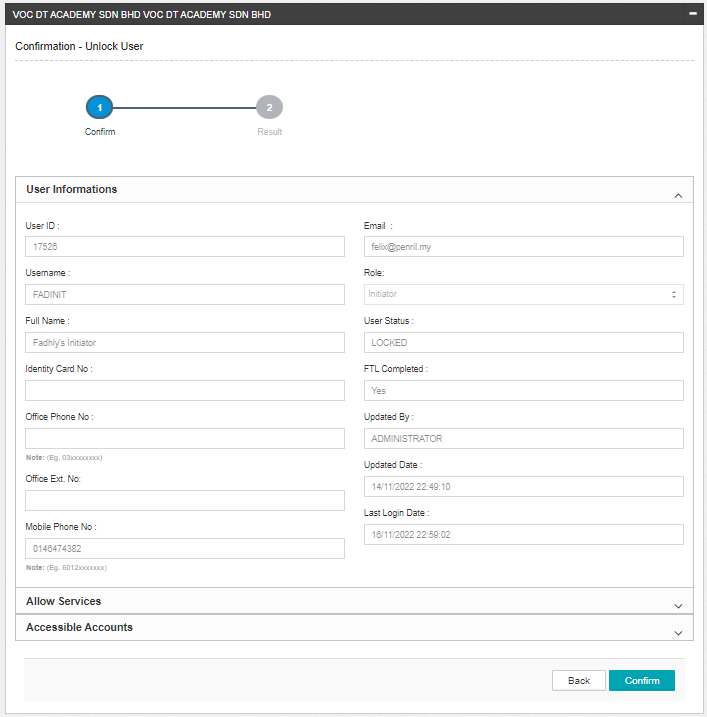


Figure 63: Unlock User Confirmation Screen

**Action:**

| **No** | **Action** | **Type** | **Description** |
| --- | --- | --- | --- |
| 1. | Confirm | Button | Contain the action to display the activate result screen. |
| 2. | Back | Button | Contain an action display back to Organization user details page. |

Table 83: Unlock User Confirmation Screen Action

***Step 3:***

1. IBAM System validates and save the changes to IB Database and displays result page.
2. Status will change to “Unlocked”.
3. IBAM shows Successful message and pending for Authorization approval process.

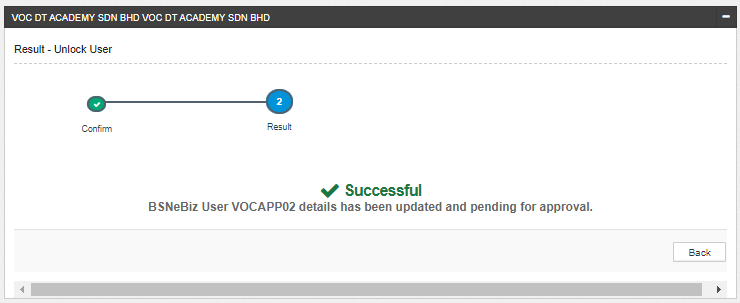


Figure 64: Unlock User – Result Screen

If User Maintenance Module Maker Checker Permission set as ‘Disable’

1. IBAM saves the update information and display the successful result page.
2. IBAM shows Successful message and will shows update information without any approval process.

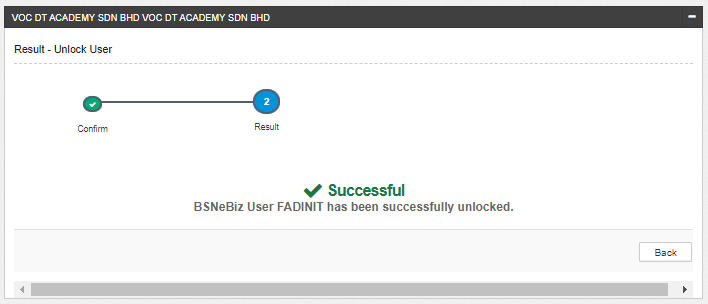


Figure 65: Unlock User – Result Screen with disable Checker Maker Permission

**Display Fields:**

|  |  |  |  |
| --- | --- | --- | --- |
| **No** | **Field** | **Format** | **Description** |
|  | Result Step | Alphanumeric | To display result step |
|  | Status | Alpha numeric | To display result status. |
|  | Result Message | Alpha numeric | To display result message. |

Table 84: Activate User– Result Screen Display Field

**Action:**

|  |  |  |  |
| --- | --- | --- | --- |
| **No** | **Action** | **Type** | **Description** |
|  | Back | Button | Contains an action to User Maintenance page |

Table 85: Activate User– Result Screen Action

##### Re-send Password

This feature allows IBAM UKB to re-send password for CDB users within a specific Organization. “Re-send” button only display for user with status:

* New
* Active
* Unlocked

###### Process Flow



Diagram 16: Re-send Password for Organization User Process Flow Diagram

###### Screen Flow

***Step 1:***

1. In User Maintenance page, user clicks on “**eye**” icon button.
2. IBAM system displays the User Details page.
3. UKB clicks on the “**Re-send Password**” button.

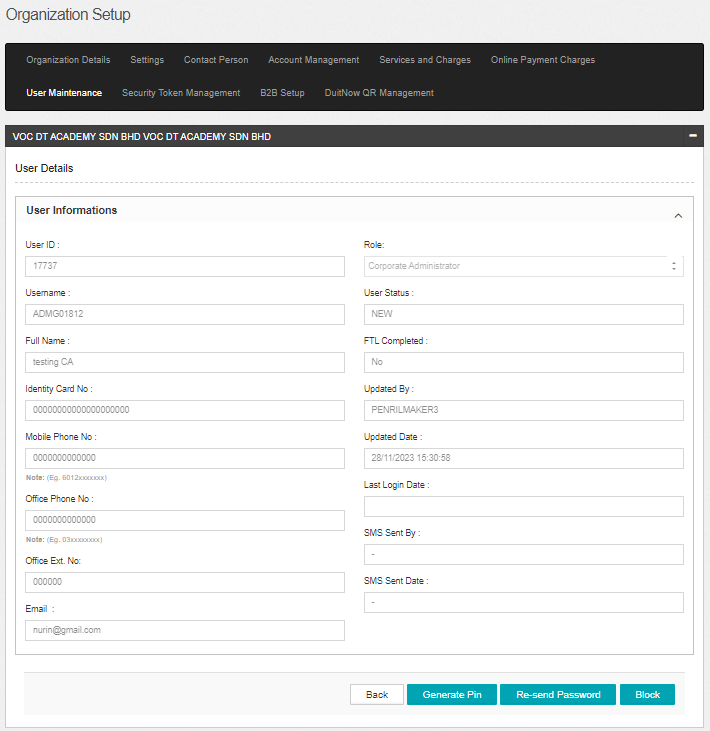


Figure 66: User Details Screen

**Action:**

| **No** | **Action** | **Type** | **Description** |
| --- | --- | --- | --- |
| 1. | Re-send Password | Button | Contain the action to display Organization Setup page. |

Table 86: User Details Action

***Step 2:***

1. IBAM system displays the Confirmation page.
2. UKB user clicks on the “Confirm” button to confirm action or “Back” button to return to the previous page.

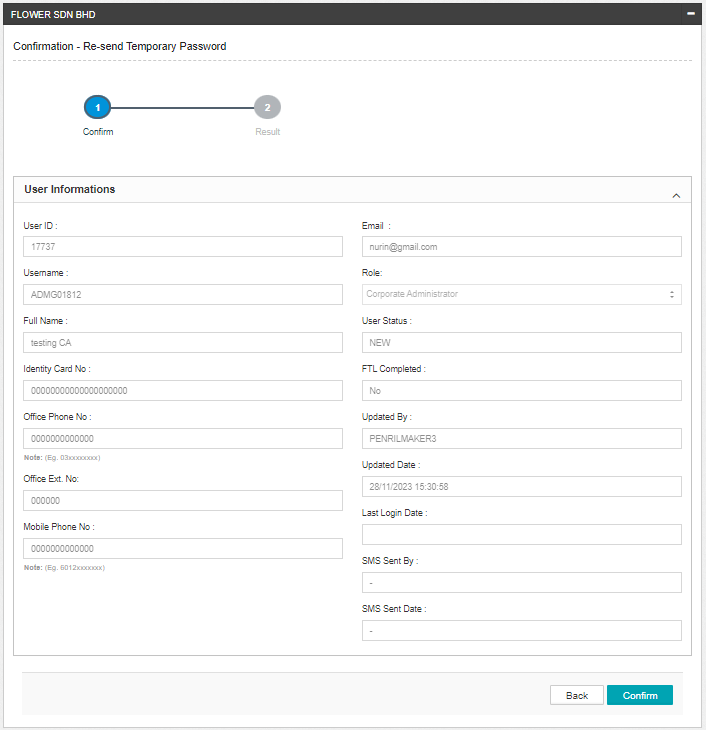


Figure 67: Re-send Password Confirmation Page

**Action:**

| **No** | **Action** | **Type** | **Description** |
| --- | --- | --- | --- |
|  | Confirm | Button | Contains an action that confirms the action and display the result screen. |
|  | Back | Button | Contain an action to display back on previous screen. |

Table 87: Organization Setup – Generate Pin Action

***Step 3:***

1. IBAM System displays result page and send the temporary password via email (after approved).
2. IBAM shows Successful message.

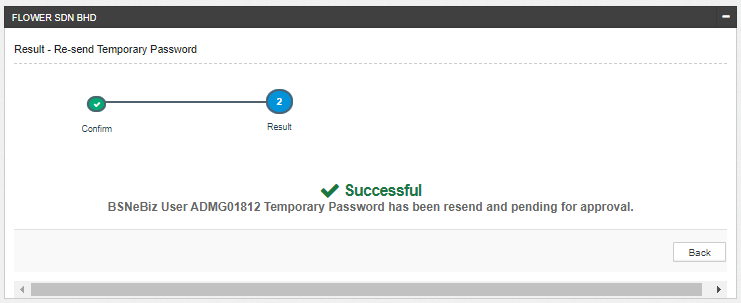
****

Figure 68: Re-send Password Result Screen

If User Maintenance Module Maker Checker Permission set as ‘Disable’

1. IBAM saves the update information and display the successful result page.
2. IBAM shows Successful message and will shows update information without any approval process.

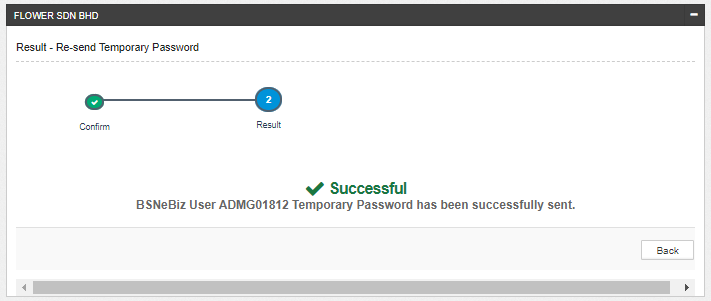


Figure 69: Re-send Password with disable Checker Maker Permission Result Screen

**Display Fields:**

| **No** | **Field** | **Format** | **Description** |
| --- | --- | --- | --- |
|  | Result Step | Alphanumeric | To display result step |
|  | Result Message | Alpha numeric | To display result message. |

Table 88: Re-send Password - Result Display Field

**Action:**

|  |  |  |  |
| --- | --- | --- | --- |
| **No** | **Action** | **Type** | **Description** |
|  | Back | Button | Contains an action to Organization Setup page |

Table 89: Re-send Password – Result Action