USER ACCEPTANCE TEST (UAT) PLAN, SPECIFICATION AND TEST CASES

ON

DATA MANAGEMENT SYSTEM

FOR

BUILDINGS ENERGY EFFICIENCY ORDINANCE

FOR

ENERGY EFFICIENCY OFFICE

FOR

ELECTRICAL AND MECHANICAL SERVICES DEPARTMENT (EMSD)

機電工程署 EMSD

By

AUTOMATED SYSTEMS (HK) LTD.
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1. INTRODUCTION

1.1 Identification

This document provides a UAT Test Plan, Specification & Result on Data Management System (DMS) for Buildings Energy Efficiency Ordinance (BEEO) for Energy Efficiency Office (EEO) of Electrical and Mechanical Services Department (EMSD).

1.2 Objective

The System Integration Test Plan is

   a) A description of the plans for testing DMS on BEEO enhancement.

   b) The testing environments

   c) System Test roles and responsibilities

   d) Application Functions

   e) Test descriptions, including test objectives.

2. TEST PREPARATIONS

All tests performed will be done in the testing environment located at the EMSD site.

In order to perform an efficient UAT test, test cases were prepared and available before UAT starts. The analysts of ASL are responsible for the test cases.

3. TEST SCHEDULE

The schedule testing period for System Integration Test will be from November 2021 to February 2022 by batch:

The scopes of functions delivered for testing and described in below table:

Testing Scope	Start Date	End Date
Perform Testing: **General (EA1, EA3, EE1, EE2, EE3 & EE4)** 1. **Return Profile (Role List) to WBRS** 2. **Validate the Application Data Transmitting from WBRS** 3. **Receive online submission from WBRS** 4. **Assign WBRS Records** 5. **Search WBRS Records** 6. **View WBRS Records** 7. **Perform Case Maintenance Operations** 8. **Download Submission Details** **Specific (EA1, EA3 & EE2)** 1. **Generate QR Code & e-Licence** 2. **Facilitate Signing and Approval Process** 3. **Generate and Distribute e-mail with e-Licence** **Specific (EA1, EE2 & EE3)** 1. **Facilitate Payment Workflow**	November 2021	February 2022
Prepare UAT Result Report	February 2022	February 2022

4. ROLES & RESPONSIBILITIES

Role	Responsibilities
Testing Team	1. Preparation of test cases 2. Coordinate testing 3. Carry out testing 4. Approval of testing result
Development Team (SA & Developers)	1. Assist in test cases preparation 2. Preparation of standard test cases 3. Bug/Problem Fixing

5. TESTING ASPECTS

In case of major problems, which disabled the system testing/running, the development team must fix the problems and restart the UAT as soon as possible. Otherwise, minor bugs are fixed when reported.

The following table listed the possible classification of UAT defects:

Critical	These are blocking problems that will seriously interrupt the UAT testing. Without solving these problems, the UAT test team cannot continue with the testing. The development team will treat these as the highest priority and will fix them in the shortest time possible. For example, system shutdown or reboot, application failure etc.
High	These problems will affect certain major functions or with erroneous results. Without fixing them, UAT test team can't go any further with this particular function testing. However, these problems will not affect the UAT test team to test on other functions.
Medium	These are medium problems that will not affect the testing of a particular function flow. UAT test team may find it helpful if these problems are fixed.
Low	These are lowest priority problems and will not affect the UAT testing. For example, change of label wording, adding field control etc.

6. TEST TERMINATION / EXIT CRITERIA

Tested System can be accepted when criteria below were completed and achieved:

- Issues of severity Critical and High should have been cleared before exit of UAT;
- System Unit Tests are passed;
- Schedule fixing plan for all Medium and Low issues;

7. TEST OBJECTIVES AND TEST CASES

7.1 Test Objectives

The purpose of the UAT is to verify the functions listed as follows:

Testing Area	Scope
DMS-BEEO	**General (EA1, EA3, EE1, EE2, EE3 & EE4)** 1. **Return Profile (Role List) to WBRS** 2. **Validate the Application Data Transmitting from WBRS** 3. **Receive online submission from WBRS** 4. **Assign WBRS Records** 5. **Search WBRS Records** 6. **View WBRS Records** 7. **Perform Case Maintenance Operations** 8. **Download Submission Details** **Specific (EA1, EA3 & EE2)** 1. **Generate QR Code & e-Licence** 2. **Facilitate Signing and Approval Process** 3. **Generate and Distribute e-mail with e-Licence** **Specific (EA1, EE2 & EE3)** 1. **Facilitate Payment Workflow**

7.2 Test Cases

Kindly refer to the Excel file named "T324 - EMSD DMS-BEEO – Unit Test Case v0.1" for the

test cases.

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