SIE.TKXDPM.20192-05

Oversea Order Placement System Supplementary Specification

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1. **Objective**

The purpose of this document is to define requirements of the Oversea Order Placement System. This Supplementary Specification lists the requirements that are not readily captured in the use cases of the use- case model. The Supplementary Specifications and the use-case model together capture a complete set of requirements on this system.

1. **Scope**

This specification defines the non-functional requirements of the system; such as reliability, usability, performance, and supportability, as well as functional requirements that are common across a number of use cases. (The functional requirements are defined in the Use Case Specifications.).

1. **References**

None.

1. **Functionality**

Sale can send multiple order list at a time.

Each merchandise must have an available list independently. With each, System must find which Site provided and check in-stock quantity. If single site is not enough for order list, make it multiple site. If there still not enough for order list, notify the error and log to System Error.

Sites are selected according to criteria with descending priority:

* + 1. Prefer ship than air delivery method.
    2. Prefer Site with larger quantity of merchandise.
    3. Smallest number of Site possible.

1. **Usability**

The desktop user-interface shall be Window 10 compliant.

1. **Reliability**

The system shall be available 24 hours a day 7 days a week, with no more than 1% down time.

1. **Performance**

The system would support up to 200 order list per second and 50 Site connection at any given time.

System must be able to complete any transactions within 1 minute.

1. **Supportability**

Mobile platform.

1. **Security**

Prevent Site and Sale from modification data of each other’s.

Ignore unregistered connection.

Backup data daily and auto recover if system fail.

1. **Design Constraints**

The system shall provide a Windows-based desktop interface.