

# System Requirements Specification

**OFFLINE CONTENTS FORWARD LOCK**  
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## Section 1. Introduction

### 1.1 Purpose

*To develop an offline .wma forward lock which does not require online nor offline licenses.*

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### 1.2 Business Context

*IKON has seen the potential growth of Digital Music Download in Malaysia. Due to the unsatisfying services provided by local internet provider in Malaysia, IKON has determine to proceed with the development of Music Download via Offline Kiosk which was launched in April 09 with local MP3 contents. To include International Music contents, IKON were required to develop Forward Lock to the International Music contents provided by recording labels.*

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### 1.3 Project Scope

*To create Content Forward Lock software for .wma*

*To tag the .wma contents with forward lock that is acceptable by most music player. Content acceptance will be able to forward the content 3 times.*

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## Section 2. General System Description

### 2.1 System Context

#### **Current songs uploading process:**

- Received MP3 from Labels.
- Generate Song Database in Server.
- Upload MP3 contents to Server.
- Encrypt MP3 contents using AES-256bit.
- Copy Encrypted Contents & New Database into Removable Storage Device.
- Update New Encrypted Contents & New Database onto Every Kiosk manually.
- Transmit Kiosk Contents upon Customer Download's request.
- Customer able to forward out 3 times from their Storage Device

#### **Customer's walk-in experience:**

- Purchase Download Code with outlet
- Select song using Song Menu provided to the outlet
- List down the favorite Song Code
- Scan Barcode at Music Download Kiosk
- Agree to Terms & Condition
- Key in Song Code
- Slot in Removable Storage Device
- Complete!!



Barcode Page (Main Screen)





Terms & Conditions



Key in Song Code



Download Page

## 2.2 Software Availability

- *Microsoft® Server 2003 / Microsoft® Vista Home Basic / Microsoft® XP Professional.*
- *Microsoft® Internet Explorer™ version 6 and above.*
- *Microsoft® .NET™ Framework 3.5.*
- *Sun® Java™ Virtual Machine 1.6.*
- *Sun® Glass Fish™ Application Server.*

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## 2.3 Major System Constraints

*Integration with Current System would be challenging. Independent programme would probably required.*

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## 2.4 Level of Security for DRM

- *Mild to Moderate*

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## 2.5 Expected Operational Scenarios

- *Receive .wma from Recording Label.*
- *Upload .wma into "Forward Lock" programme.*
- *Upload "Forward Lock" contents to Server.*
- *Encrypt "Forward Lock" contents using AES-256bit.*
- *Copy Encrypted Contents & New Database into Removable Storage Device.*
- *Update New Encrypted Contents & New Database onto Every Kiosk manually.*
- *Ready for Customer to download.*

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# Section 3. System Capabilities, Conditions, and Constraints

## 3.1 Business Requirements

*Content Forward Lock - Prevent the content from unlimited duplication but not limited to Administrator*

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## 3.2 Functional Requirements

*Subsection templates for each of the means of specifying functional requirements are provided below.*

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### 3.2 Forward Lock

*Tag .wma with forward lock.*

#### 3.2.nf.1 Content Forward Lock

*Content Forward Lock - Prevent the content from unlimited duplication*

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#### 3.2.nf.2 Content Forward Lock Inputs

*.wma (128 to 320bits).*

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#### 3.2.nf.4 Function X Outputs

*At programmer recommendation, output that is able to be played with most media player.*

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### 3.3 User Requirements

- 1. Able to create multiple time before final delivery*
- 2. 3 times forward lock after delivery to consumer*

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## Section 4. Revision History

*Identify changes to the SyRS.*

Version	Date	Name	Description