## The Chinese University of Hong Kong Department of Computer Science and Engineering

# Onyx - cloud music library manager

Design Brief & Specification

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Date Revised: February 16, 2016

Literature Number:

DS0001a

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## 1 Design Brief

#### 1.1 Rationale

#### 1.2 Project Overview

#### 1.3 Onyx Features

- Access all music on any device
- Zero compression, lossless fidelity
- Gapless playback for non-stop mixes
- Designed to handle large libraries (> 10,000 songs)
- Powerful search engine to rediscover music
- Discover music beyond personal library (Music Pool)

## 2 Specification

### 2.1 System Architecture

### 2.2 Module Description

## 2.3 Employed Technologies

- NodeJS Server Runtime
- Forage Search Engine
- Redis Data Store
- npm Dependency Manager
- Webpack Module Bundler
- React UI Framework
- Concise CSS Framework
- Font Awesome Icons