Haohan

DVR ActiveX Player

Software Architecture Specification

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# Document Control

## Document Version Control

It is the reader’s responsibility to ensure they have the latest version of this document. Questions should be directed to the preparer of this document above, or the project manager.

## Privacy Information

This document may contain information of a sensitive nature. This information should not be given to persons other than those who are involved in the project or who will become involved during the lifecycle.

## Document Revision History

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| **Revised By** | **Revised**  **Date** | **Version** | **CR#** | **Comments** |
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## Status

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| **Status** | 🞏 **Open** | 🞏**In Progress** | 🗹 **Ready for Review** | 🞏 **Pending Approval** | 🞏 **Approved** |

## Approved By

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| --- | --- | --- | --- |
| Department | Name | Date | Comments |
| Product Management |  |  |  |
| Data Architect |  |  |  |
| Application Architect |  |  |  |
| Director of Engineering |  |  |  |

# Introduction

## Feature Description

High level description of the deliverable.

## Scope

The documents scope is limited to the architecture of…

Integrating with products not identified in … is out of scope.

## Definitions, Acronyms and Abbreviations

|  |  |  |
| --- | --- | --- |
| **Term** | **Definition** | **Description** |
| MFC/GDI/Bitmap | Windows Application Framework |  |
| ActiveX |  |  |

# Overview

DVRPlayer是嵌入在浏览器内的，DVR客户端的ActiveX播放器。DVRPlayer具有以下功能：

1. 自动连接Media Server
2. 可选择某一时间段内的Media内容
3. 多窗口（当前版本，1/4个窗口）

## Use-Case View

DVR Player/ActiveX架构



类图



## UI Snapshots



# Architectural Goals and Constraints

Performance, scalability, extensibility, flexibility, robustness, etc

# Architectural Representation

## Overall Architectural View

Sequence Diagrams, State Diagrams, DFDs, etc…

## Class Modeling

### Service Layer

Service contracts, data contracts, protocols supported, validations, etc

### Business Layer

Classes, business rules, validations

### Data Access Layer

Classes

### Foundation/Shared Libraries

## Data Layer

### ER Diagram

### Stored procedures/Functions

### Data Dictionary

## Deployment/Network Diagram

## Additional Considerations

### Security

### Error Handling

### Logging and Tracing

### Live Health Checks

### Testability

#### UI Testing

#### Unit Testing

Unit testing will be implemented with the target code coverage of X%.

#### Integration Testing