

LVIS Tower

Architecture Document

Revision History

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| --- | --- | --- | --- | --- |
| **No** | **Version** | **Date** | **Author** | **Sections Affected / Remarks** |
| 1 | 1.0 | 2/29/2016 | Jitendra | Initial Revision (pending security & deployment details) |
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# Introduction

Tower is a web-based application that allows users to manage LVIS system. The application allows users to onboard new lenders, setup configuration data, processes failed transactions from TEQ/Sharepoint (Technical Exception Queue) and queue the application transactions during the maintenance window of the applications connecting to LVIS, such as RealEC or FAST.

## Purpose of this document

The purpose of this document is to provide a high-level overview of the application architecture in terms of the different technologies used, how the application layers are organized and the standards adopted for cross-cutting concerns such as security, logging, exception handling etc.

## Scope

This document is limited to the architecture and design details of the new web application tool built for the business admins and the LVIS support staff. Where applicable, the existing systems such as the LVIS BizTalk application, TEQ/Sharepoint etc are referenced, but are outside of the scope of this document.

# Risks & Assumptions

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| **No** | **Item/Description** | **Status/Resolution** | **By** |
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# Context View



# Technologies Used

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| --- | --- |
| **Layer** | **Tools / Technologies Used** |
| Client Browser | HTML5, CSS3, AngularJS 1.5 |
| IIS / Web App | ASP.NET MVC 5 & Web API |
| Services Layer | .NET 4.5.2 Class Libraries |
| Data Layer | .NET 4.5.2 Class Libraries, Entity Framework 6 |
| Cross-cutting | * log4net v2.0.5 * Unity IoC v4.0.1 * Unity Interceptors v4.0.1 * Object Mapper v{TBD} |

# Layer Diagram



# High-level Data Flow Diagram



# Security

## Authentication

## Authorization

# Logging Standards

# Exception Handling

# Deployment View