
LANDWELLWEB_MYSQL EDITION

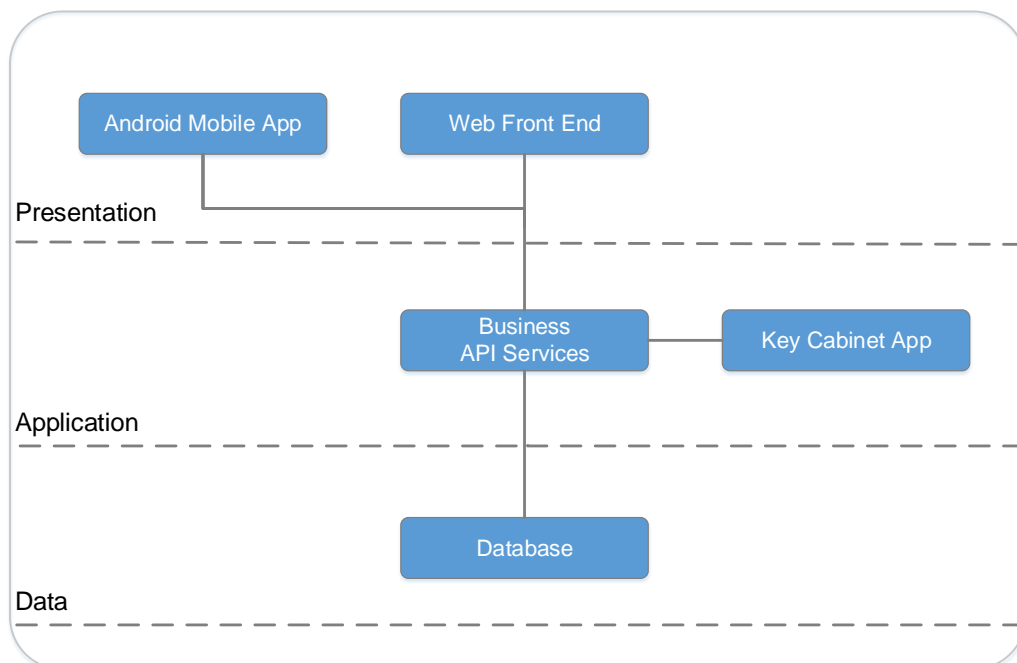
NETWORK ARCHITECTURE

1. INTRODUCTION

Landwell Web 2.0 is a web based Administration Software Tool that is used to administer Landwell key cabinets such as User Profiles, Credentials, Access Rights and Reporting.

This document outlines the technical elements of the Landwell Web 2.0, how it interacts with its associated hardware (such as key cabinets and lockers) and backend database, and guides the end users on how to install and deploy correctly.

2. NETWORK ARCHITECTURE



2.1 WEB FRONT END

Landwell Web 2.0 front end is a browser based internet site that is hosted Nginx web proxy service. The Web Front End provides the main user interface presented to the users of the system via a common web browser (such as IE, Chrome, or Firefox) and also links into the Landwell Web 2.0 Business API Services that take care of all of the business logic and data processing.

2.2 ANDROID MOBILE APP

Landwell mobile applications are software applications designed specifically for mobile devices, including smartphones and tablets running Android or Apple operating systems. They are also link into Landwell business API services.

2.3 BUSINESS API SERVICE

The Landwell Web 2.0 Business API Service is a JAR file, and take care of all of the business logic and data processing. It is the central core component that makes up Landwell Web 2.0 and interacts with the Web Front End, Key Cabinet App, Mobile Apps, and the Database.

2.4 KEY CABINET APP

It is an Android based application running on the terminal of key cabinets, which monitors devices through serial commands and makes them respond as expected, and and also links into the Landwell Web 2.0 Business API Services that take care of all of the business logic and data processing.

2.5 DATABASE

Landwell Web 2.0 works with MySQL Server database.

2.6 HOSTING

Although Landwell Web 2.0 is a web based solution, it's designed to be installed within a customer's own infrastructure rather than being a Landwell hosted solution.

3. COMMUNICATIONS

The various components that make up Landwell Web communicate using industry standard protocols such as HTTP, HTTPS, Web socket over TCP/IP. The below table provides an overview

of protocols and port used by the Landwell Web software. Therefore, please request your organization's technical team to add them to the whitelist of network security rules for the best user experience.

Protocol/Purpose	From	To	Port (TCP)	Remarks
Database	Business API Service	MySQL Server	3306	
HTTP	Client Browser Key Cabinet App Mobile App	Business API Service	8080	
HTTPS	Client Browser Key Cabinet App Mobile App	Business API Service	8181	Optionally, configured instead of HTTP
HTTP	Client Browser Key Cabinet App Mobile App	Front End (Web server)	80	
HTTPS	Client Browser Key Cabinet App Mobile App	Front End (Web server)	443	Optionally, configured instead of HTTP
WS	Client Browser	Websocket service	7006	
WSS	Client Browser Mobile App	Websocket service	6006	Optionally, configured instead of WS
WS	Key Cabinet App	Websocket service	7007	
WSS	Key Cabinet App	Websocket service	6007	Optionally, configured instead of WS
Message service	Front End	ActiveMQ	61614	
Message service	Front End	ActiveMQ	61615	Optionally, configured instead of

Note: The above values are for reference only, please refer to their actual configuration values.