RALLY FIELD TECHNICIAN APP – ADMIN PANEL SRS

(Software Requirements Specification)

1. INTRODUCTION

The Admin Panel is a secure web-based control system used by Rally administrators to manage buildings, risers, floors, images, PDFs, and technicians.

Only authorized admins can access this module.

2. OBJECTIVES

• Maintain accurate building metadata for technicians.

• Upload and manage ONT configuration PDFs.

• Manage floors and risers, including single and East/West riser logic.

• Upload parking and riser images.

• Manage users and their permissions.

• Override complexity and required technicians.

3. USER ROLES

ADMIN:

- Full access to all admin modules.

- Can create/edit/delete buildings, floors, risers, images, PDFs, and users.

TECHNICIAN:

- No access to admin panel.

- Mobile app usage only.

4. ADMIN PANEL MODULES

4.1 Dashboard

Displays:

- Total buildings

- Total risers

- Total ONT PDFs

- Total images

- Recent uploads and quick navigation shortcuts.

4.2 Manage Buildings

Fields:

- Building Name

- Address (line1, line2, city, state, country)

- Technology Type (GPON/DSL/Ethernet)

- Infrastructure Type

- Serviced By

- Techs Per Install (raw Excel string)

- Auto Complexity Score (read-only unless override)

- Required Technicians (auto/manual)

- Admin Notes

Functions:

- Search, filter buildings

- Edit existing building

- Enable "Override Complexity"

- Import from Excel (future phase)

4.3 Manage Floors

Features:

- Add floors (1, 2, 3 … PH)

- Bulk-add floors (1–60)

- Edit floor labels

- Set sorting order

4.4 Manage Risers

Supports:

A. Single Riser Buildings

B. Dual Riser Buildings (East + West Side)

Fields:

- Riser Name

- Riser Side (Single/East/West)

- Building Selection

- Floor Assignment

- Description

Riser Logic Saved:

- If single → technician sees only one.

- If dual → show "East Side Riser" and "West Side Riser".

- Vertical logic:

nearest_above = smallest riser floor > selected floor

nearest_below = largest riser floor < selected floor

4.5 Manage Images

Categories:

- Parking

- Riser

- Lobby

- Other

Fields:

- Building

- Category

- Title

- Description

- File Upload

4.6 Manage ONT PDFs

Fields:

- Building

- Technology (Nokia/Huawei/SmartOLT/Positron)

- PDF Title

- File Upload

Admin can:

- Upload new PDFs

- Delete or replace PDFs

4.7 Manage Users

Fields:

- Name

- Email

- Role (Admin/Technician)

- Status (Active/Disabled)

Admin can:

- Create user

- Disable user

- Send password reset link

5. LOGIC REQUIREMENTS

5.1 Complexity Calculation

Input raw formats:

- "1"

- "2"

- "60%1 and 40%2"

Weight:

- 1 tech = 30%

- 2 tech = 80%

Formula:

complexity = (p1 * 30 + p2 * 80) / 100

Required Technician Logic:

If $p2 \geq 50\% \rightarrow$ Required Techs = 2

Else $\rightarrow$ Required Techs = 1

Admin Override:

If override enabled $\rightarrow$ manual values stored and shown.

5.2 Riser Logic

System stores:

- Riser Side

- Riser Floor

- Building Relationship

When technician selects a floor:

1. Filter risers by building.

2. If dual risers $\rightarrow$ show East and West separately.

3. Vertical logic for nearest above/below.

5.3 Images & PDF Rules

- Uploaded files stored with URL.

- PDFs served through in-app viewer.

- Images accessible instantly with caching.

6. SECURITY REQUIREMENTS

• JWT authentication

• Strict role-based access control

• Input validation for all fields

• File size & type validation

7. ADMIN WORKFLOW

Login →

Dashboard →

Manage Building →

Add floors →

Add risers (Single/East/West) →

Upload images →

Upload ONT PDFs →

Save →

Technicians instantly receive updated information.

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