GRS USER GUIDE

GRS: User Guide
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1. Summary

The GRS is a healthcare data management application that simplifies and automates configuration activities within the Facets.

- It allows configuration teams to upload design logs, validate records automatically, and migrate approved data between environments without manually updating Facets or SQL database.
- By integrating with both the Facets front-end application and the SQL back-end database, the GRS ensures data consistency, auditability, and process efficiency across all stages of configuration.

2. Introduction

Purpose

This guide provides step-by-step instructions for using the GRS. It is designed for Configuration, QA, and IT professionals who manage and validate design logs for healthcare products within the Facets.

Background

Before the **GRS** was developed, the configuration team manually entered or updated each record from the design log in Facets or SQL.

- **Facets:** Supported single-record edits but required significant manual effort.
- **SQL:** Supported bulk operations but required technical expertise.

This manual process was time-consuming, prone to errors, and lacked automated validation. To resolve these issues, the **software team developed the GRS** — a centralized interface that allows users to **upload, validate, correct,** and **migrate design logs** quickly and securely.

How GRS Simplifies Configuration Work:

- Automatically validates uploaded data.
- Highlights errors for easy correction.
- Migrates validated data to Facets environments.
- Reduces manual SQL or Facets work.
- Maintains complete audit trails.

3. System Overview

GRS Architecture

The GRS connects three key components:

1. **GRS Front-End:** Used by configuration users to upload and validate design logs.
2. **SQL Database (Back-End):** Stores validated records, supports bulk edits, and maintains audit history.
3. **Facets Application (Front-End):** Reflects validated and migrated data, allowing single-record edits.

Workflow

1. Upload design log (.csv or .xlsx).
2. System performs multi-stage validation:
    a. Format validation
    b. Business rule validation
    c. Relational validation
3. Validated data is stored in SQL database.
4. Configuration users correct failed records.
5. Admins migrate validated data to Facets via secure APIs.

Supported Environments

- 1D (Development) – Validation and testing.
- 1R (QA) – Quality review and approval.
- 1P (Production) – Final deployment.

4. User Roles and Permissions

Role	Responsibilities	Access Level
Configuration User	Uploads and validates design logs; corrects failed records.	Upload, Validate, Edit
QA User	Reviews and approves records for migration.	Validate, Comment
Admin	Approves migrations and manages user permissions.	Full Access

5. Interface Overview

The GRS interface includes the following sections:

- **Dashboard:** Displays overall validation, migration, and error statistics.
- **Upload Design Log:** Interface to upload .csv or .xlsx files.
- **Validation Table:** Displays results of validation with color-coded status.
- **Migration Panel:** Used to initiate data migration to Facets.
- **Activity Log:** Tracks all user actions (upload, edit, delete, migrate).

6. Working with GRS

6.1 Uploading Design Logs

1. Log in to the **GRS**.
2. Navigate to **Upload Design Log**.
3. Select the .csv or .xlsx file to upload.
4. Click **Upload**.
5. Review the validation summary.

Tip: Include version and date in the filename (e.g., DesignLog_2025-10-28_v2.xlsx).

6.2 Validating Records

- GRS automatically validates each record during upload.
- Failed records are shown in red with detailed error messages (e.g., VAL-PLAN-001: Invalid Plan Code).
- Correct the records directly in GRS or re-upload the corrected file.
- Re-run validation until all records pass.

6.3 Editing and Deleting Records

- To edit: Click the Edit icon, make corrections, and click Save.
- To delete: Click Delete and confirm the deletion.
- Every change is logged with user ID, timestamp, and record ID.

6.4 Migrating Validated Records

- Only validated records can be migrated.
- Migration path: 1D → 1R → 1P.
- Admins approve migration requests.
- The triggers secure REST API calls to push validated data into Facets staging schemas.

7. Integration with SQL and Facets

7.1 Front-End and Back-End Relationship

The GRS bridges both systems:

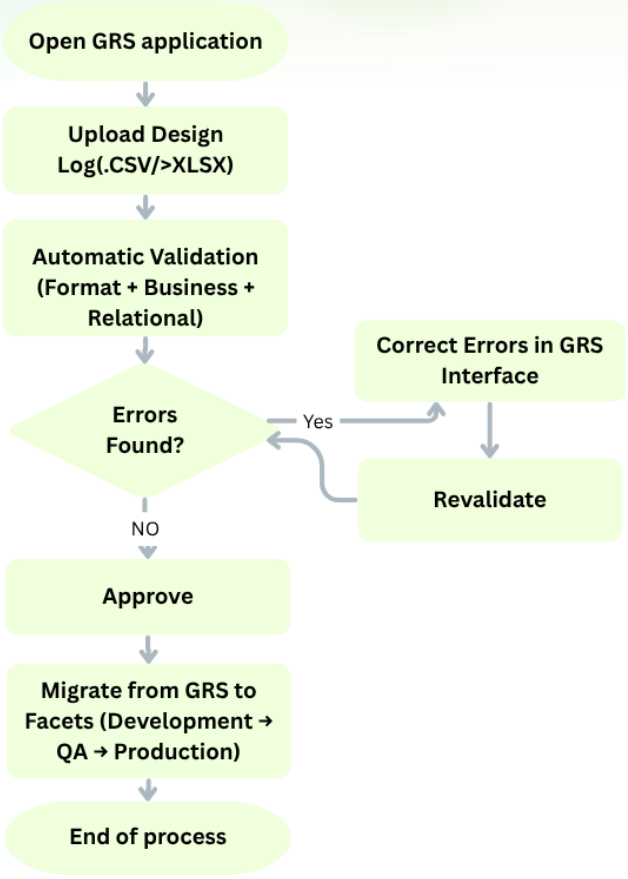
Function	System	Description
Single Record Editing	Facets Application	Used for individual record updates after migration.
Bulk Record Editing	SQL Database	Enables large-scale record updates at the database level.
Validation and Migration	GRS	Centralized platform for validation and migration.

7.2 GRS Process Flow

1. Open **GRS** Application
2. Upload **Design Log** (.CSV/.XLSX)
3. Automatic Validation (Format + Business + Relational)
4. Errors Found?
    - **If Yes:** Go to **Step 5**
    - **If No:** Go to **Step 7**
5. Correct Errors in GRS Interface
6. Revalidate: Return to **Step 4**
7. Approve
8. Migrate from GRS to Facets (Development → QA → Production)
9. End of process

GRS Process Flow Chart

“The following diagram illustrates the end-to-end workflow from upload to migration.”



8. Troubleshooting

Issue	Cause	Resolution
Upload Error 400	Header mismatch	Ensure file matches’ template.
Validation Timeout	File size too large	Split and re-upload smaller files.
Migration Blocked	Insufficient permissions	Contact Admin.
SQL Sync Delay	API or network lag	Wait for sync or retry later.

9. Best Practices

- Validate all records in **1D** before migrating to **QA**.
- Keep **backup copies** of all uploaded design logs.
- Avoid manual edits in Facets after migration.
- Monitor **Activity Logs weekly** for auditing.
- Ensure file templates are always up to date.

10. FAQs

Q1. Why was the GRS created?

A: To automate configuration data uploads, reducing manual Facets and SQL work.

Q2. Can I still update data in SQL or Facets?

A: Yes. SQL allows bulk updates, while Facets allows single-record edits. However, using GRS ensures validations and audit compliance.

Q3. How does GRS ensure accuracy?

A: Through layered validation rules and secure data synchronization between SQL and Facets.

Q4. How are deleted records tracked?

A: Deleted records are logged in SQL with user ID and timestamp for auditing.

11. Glossary

Term	Definition
1D / 1R / 1P	Development, QA, and Production environments.
Design Log	A configuration data file (.csv/.xlsx) uploaded to GRS.
Facets	A healthcare application used to manage member, provider, and plan configuration data across different environments
SQL Database	Back-end data storage used for validation and auditing.
API	Application Programming Interface enabling system communication.
Validation	Automatic checking of uploaded data against system rules.

12. Document Control

Version	Date	Author	Description
1.0	15-Sep-2025	Rama Krishna K	Initial Release
2.0	30-Sep-2025	Rama Krishna K	Structural Enhancements
3.0	15-Oct-2025	Rama Krishna K	SQL–Facets Integration
3.1	9-Nov-2025	Rama Krishna K	Reorganized Structure, Enhanced Clarity, Professional Formatting