Compliance Documentation

CSV Parser Module – Project Atlas

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1. Purpose

This document outlines the compliance measures implemented in the CSV Parser Module for Project Atlas. The module processes sensitive financial data and is designed to adhere to regulatory, security, and audit requirements defined by the organization and applicable financial data handling standards.

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2. Regulatory Considerations

The CSV Parser Module follows key principles required for financial data processing:

- Data minimization and controlled access
- Secure handling of sensitive financial fields
- Audit-ready logging and traceability
- Separation of concerns between parsing and validation logic

The module does not alter or store data beyond the scope of ingestion and validation.

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3. Data Handling Practices

- CSV files are processed only within approved infrastructure environments (local/staging)
- No external SaaS tools or third-party APIs are used
- Raw financial data is not persisted outside the pipeline
- Parsed data is passed directly to the legacy validation framework

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4. Logging and Audit Readiness

- Logs capture only metadata such as file name, row number, and error type
- Sensitive values (transaction IDs, amounts, personal identifiers) are never written to logs
- Logging follows predefined error-handling patterns used across the pipeline
- All validation failures are traceable through audit-friendly log messages

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5. Error Handling and Non-Compliant Data

- Malformed or incomplete rows are skipped by default
- Validation failures do not terminate the entire ingestion job
- Non-compliant records are isolated and excluded from downstream processing
- All errors are logged for post-processing review

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6. Legacy Framework Compliance

- The module integrates with the existing legacy validation framework using an adapter pattern
- No modifications are made to legacy validation logic
- Compliance rules remain centralized and consistent across the pipeline

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7. Access Control and Environment Constraints

- Access to AWS S3 is restricted to staging environments
- Production credentials and client data are not used during development or testing
- Unit tests rely only on mock or sample datasets

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8. Assumptions and Limitations

- Exact regulatory schemas may evolve over time
- Performance optimization is deferred in favor of correctness and compliance
- Large file benchmarks are not finalized and are out of scope

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9. Conclusion

The CSV Parser Module is designed with compliance-first principles, ensuring secure, auditable, and regulation-aligned processing of financial CSV data. Its controlled data handling, robust logging, and seamless legacy integration support regulatory audits and long-term maintainability within Project Atlas.