

Error Handling (19.1)

Agile Data Engine provides a set of built-in error handling mechanisms:

- Promotion and deployment errors (including database schema changes) are captured and handled by a CI/CD module
- Workflow orchestration load errors are handled automatically by an integrated Airflow instance per environment
- Data quality checks - smoke tests, gatekeepers and alerts

Errors can be reported either via multiple selection of notification channels or directly in the ADE UI.

Error Handling (19.2)

Data quality tests

Smoke grey and black load steps can be used to execute data quality tests as part of load workflows.

- Grey - the test results are logged only, i.e. load workflow executions will continue regardless of smoke tests results.
- Black - test result will be logged, workflow task will be marked as failed and any subsequent, dependent loads will be stopped.
- Gatekeeper load steps are used as a checkpoint to test if the execution of a load should proceed or stop. If the test is fulfilled, execution of subsequent load steps proceeds. Gatekeeper tests help control the execution flow and prevent data quality errors to generate issues in downstream tasks.

Tests are defined in SQL and an additional load step is created to direct rows marked as 'error mart'. In production setups they are typically part of reusable load templates and automatically generated loads.

