

Administrative Flow: Error Report Handling and Best Practices

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Background

- While we have prescribed the processes by which data exchanges take place, and to some extent how nodes confirm receipt and processing information, we have so far left the handling of exceptions more or less to flow developers, with the result that error handling ranges from good to non-existent.
- Even where good exception handling exists, it is very much ad hoc.
- The concept of an admin flow is to apply flow design techniques to standardize a set of EN services which can be used to manage exchanges effectively.

Goal

- The goal is to specify a common set of services by which a node can be programmed to monitor the status of a transaction from receipt to final processing, and retrieve any available information needed by the person who will need to respond to the exception.

Capabilities of the flow include:

- Allowing retrieval of all problems for a given time frame and organization or set of users
- Allowing retrieval of reports produced by the target system
- Specifying a schema or framework to structure reports in a common and possibly machine-readable fashion
- Defining error types and processing expectations (e.g., warnings, errors leading to rejection of specific records, or errors which terminate processing and roll back the entire transaction)
- Expanding use of existing EN mechanisms (such as the notification URI to better define behavior and expectations)

The Admin flow implements two new features

- 1) A new generic error report.

The two flows which provide an enhanced version of error reporting are WQX and RCRA.

A new error report was developed taking into consideration the best of WQX and RCRA reports.

A generic style sheet to format the error report to a user friendly style

2) New GetTransactionDetail service

This service will provide ability to retrieve multiple transactions log Details based on query parameters