**Epipog**

**Specification**

**Ejector Class Family**

**Nov. 4, 2016**

# 1. Base Class

The ejector object is the base class for handling non-parseable records from the input data. Derived objects are extended from the base class, depending on their requirement in the database pipeline. This base class is defined in the file Ejector.java. This base class defines the methods and interfaces for how non-parseable records are handled in the Epipog application and the operations that may be performed with the ejector object.

## 1.1 Fields

The base class defines the following fields:

protected int nEjected = 0; // number of records ejected

This field is an accumulator for the total number of non-parseable records that have been ejected.

## Types

The base class defines the following data types:

public enum EjectorType {  
 EJECTNOOP,  
 EJECTECHO  
}

This enumerated type are the setting flags for specifying which derived ejector object to use for handling non-parseable records from the input data.

EJECTNOOP : record is silently ignored.  
EJECTECHO : the record is echo to the console window

## 1.2 Methods

The base class contains the following implemented methods

***Accessors (Getter/Setter)***

public int NEjected();

The above method returns the number of non-parseable records that have been passed to the ejector object so far.

***Routing***

public void Eject( String record );

This method handles the non-parseable record. The method passes the record to the Route() method, which returns a unique identifier, and then the unique identifier is passed to the Alert() method for messaging an operator.

public Integer Route( String record );

This method handles the non-parseable record. In this base class, no action is taken.

public void Alert( Integer id );

This method handles messaging the operator. In this base class, no action is taken.

# 2 EjectorEcho Derived Class

This derived class extends base class “Ejector”, and implement the method for ejecting non-parseable records. They are implemented in the file EjectorEcho.java. This extended class implements the methods and interfaces handling non-parseable records, when the process is solely to echo them to a console.

## 2.2 Methods

The extended class contains the implementation of the following methods:

***Routing***

public Integer Route( String record );

This method overrides the base method and handles routing the non-parseable record. In this implementation, the contents of the record are echo’ed to the system console.

public void Alert( Integer id );

This method overrides the base method and handles messaging the operator. In this implementation, no action is performed.