

Retek[®] Integration Bus[™] 11.0

Data Model

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Contact Method	Contact Information
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E-mail	support@retex.com
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Internet (ROCS)	rocs.retek.com Retek's secure client Web site to update and view issues
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Phone	+1 612 587 5800
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Toll free alternatives are also available in various regions of the world:

Australia	+1 800 555 923 (AU-Telstra) or +1 800 000 562 (AU-Optus)
France	0800 90 91 66
United Kingdom	0800 917 2863
United States	+1 800 61 RETEK or 800 617 3835

Mail	Retek Customer Support Retek on the Mall 950 Nicollet Mall Minneapolis, MN 55403
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When contacting Customer Support, please provide:

- Product version and program/module name.
- Functional and technical description of the problem (include business impact).
- Detailed step-by-step instructions to recreate.
- Exact error message received.
- Screen shots of each step you take.

Overview

Following is an overview of the two sections of the data model:

- Relational Integrity Diagrams
- Data Dictionary Language

Relational Integrity Diagrams

These diagrams show the relationship between the various tables within functional area. They include:

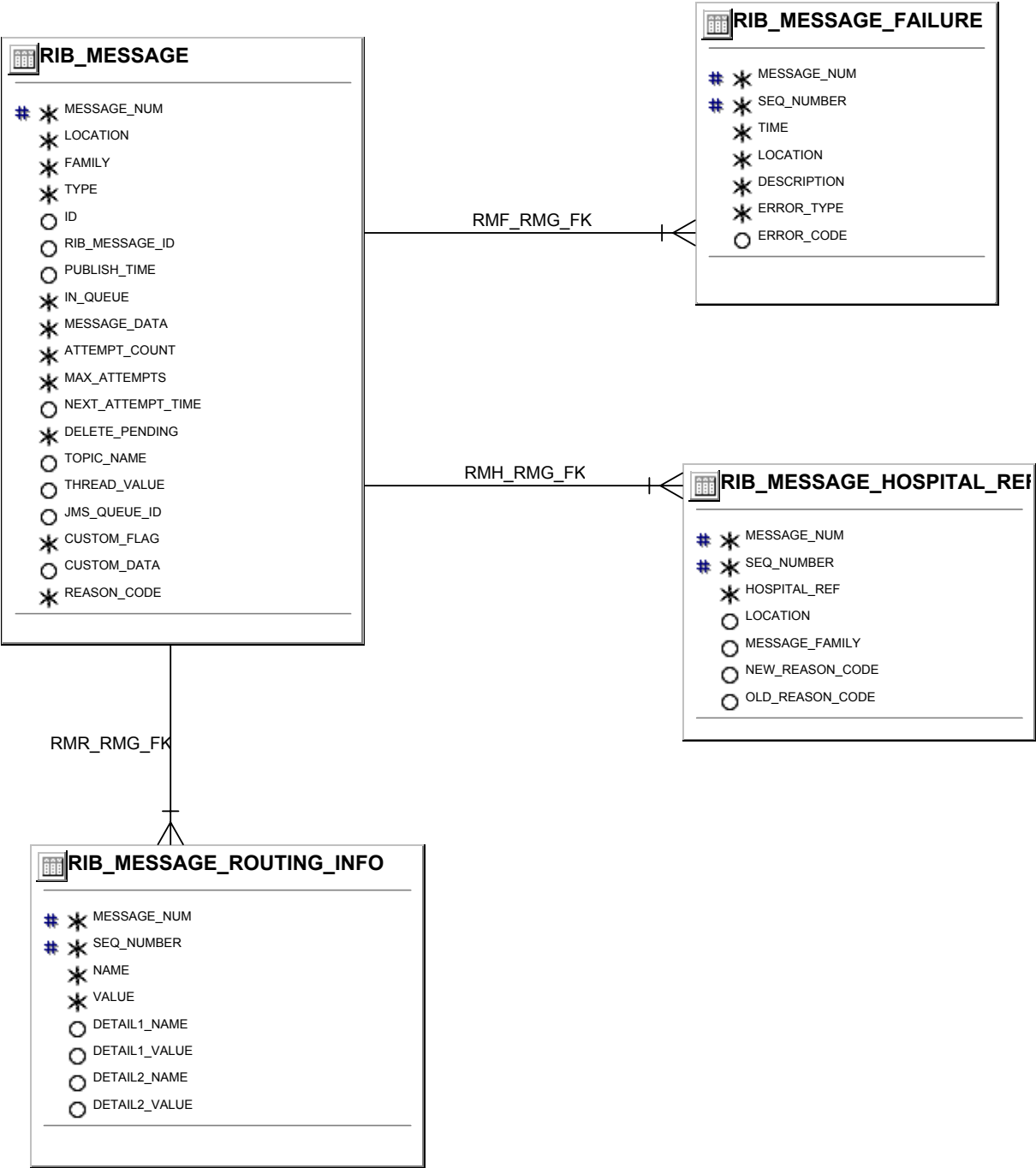
- Table names
- Column names
- Primary and foreign keys

Data Dictionary Language

This section includes the Data Dictionary Language (DDLs) for the Retek Integration Bus (RIB) database. The DDLs include:

- Table names and descriptions
- Column summaries
- Primary and foreign keys (if applicable)
- Check constraints (if applicable)
- Index summaries (if applicable)
- Column detail information

Diagram : DD_RIB_HOSPITAL
Title : Rib Hospital Diagram



Oracle Designer

Report : TABLE DEFINITION
Filename : T:\RIB11.0\cktdci.pdf
Run by : RTKDBA
Report Date : 20 August 2004
Total Pages : 19

Parameter Values

Workarea : GLOBAL SHARED WORKAREA
Container : RIB 11.0
Container Version :
Recurse Sub-Containers : N
Tab/View/Snap Name : %
Diagram :

Includes
Tables : Yes
Views : Yes
Snapshots : Yes
Column Details : Yes

Tables Created
On/After :
and On/Before : 20 August 2004

Tables Changed
On/After :
On/Before : 20 August 2004

Table Definition

Container : RIB 11.0 Version :

Table Name : RIB_DOCTYPES Alias : RDO
 Display Title :

Description : This table contains the DTD (Document Type Definition) information for RIB messages used in CLOB-based APIs.

Volumes

Start Rows : End Rows :

Storage

Index-organized ? No

Column Summary

<u>Col.Seq.</u>	<u>Column</u>	<u>Nulls ?</u>	<u>Type</u>
10	DOC_NAME	NOT NULL	VARCHAR2 (255)
20	DOC_TYPE_URL	NOT NULL	VARCHAR2 (255)
30	ACTIVE_IND	NOT NULL	VARCHAR2 (1)
40	DOC_TYPE_DATA	NOT NULL	CLOB ()

Primary Key

<u>Name</u>	<u>Column</u>
PK_RIB_DOCTYPES	DOC_NAME

Index Summary

<u>Name</u>	<u>Seq.</u>	<u>Column</u>	<u>Index Type</u>
RIB_DOC_TYPES_I1	1		NOT UNIQUE

Column Detail

10 DOC_NAME
 Optional ? :No ; Varchar2 (255) ;() ; ; Uppercase ? :No ;
 Specifies the message name.

20 DOC_TYPE_URL
 Optional ? :No ; Varchar2 (255) ;() ; ; Uppercase ? :No ;
 Specifies a location on the network where the DTD can be found.

30 ACTIVE_IND
 Optional ? :No ; Varchar2 (1) ;() ; ; Uppercase ? :No ;
 Specifies whether the message is currently used in the system.

40 DOC_TYPE_DATA
 Optional ? :No ; Clob () ;() ; ; Uppercase ? :No ;

Table Definition

Container : RIB 11.0 Version :

Column Detail

Contains the DTD

Table Definition

Container : RIB 11.0 Version :

Table Name : RIB_ERRORS Alias : RBE
 Display Title :

Description : Contains error message codes and their corresponding message text.
 Similar to the RTK_ERRORS table, except the errors on RIB_ERRORS are
 owned by the RIB.

Volumes

Start Rows : End Rows :

Storage

Index-organized ? No

Column Summary

<u>Col.Seq.</u>	<u>Column</u>	<u>Nulls ?</u>	<u>Type</u>
10	TYPE	NOT NULL	VARCHAR2 (2)
20	CODE	NOT NULL	VARCHAR2 (25)
30	LANG	NOT NULL	NUMBER (6, 0)
40	TEXT	NOT NULL	VARCHAR2 (255)
50	APPROVED_IND	NOT NULL	VARCHAR2 (1)

Primary Key

<u>Name</u>	<u>Column</u>
PK_RIB_ERRORS	TYPE CODE LANG

Foreign Keys

RBE_RBL_FK
 LANG references RIB_LANG.LANG
 Transferable ? Yes Update Rule : Restricted
 Mandatory ? Yes Delete Rule : Restricted

Check Constraints

<u>Name</u>	<u>Where Validate Clause</u>
CHK_RIB_ERRORS_APPROVED_IND	APPROVED_IND IN ('Y','N')
CHK_RIB_ERRORS_TYPE	TYPE IN ('BL','SY')

Column Detail

10 TYPE
 Optional ? :No ; Varchar2 (2) ;() ; ; Uppercase ? :No ;

Table Definition

Container : RIB 11.0 Version :

Index Summary

<u>Name</u>	<u>Seq.</u>	<u>Column</u>	<u>Index Type</u>
RIB_ERRORS_I1	1	CODE	NOT UNIQUE
RIB_ERRORS_I2	1	LANG	NOT UNIQUE

Column Detail

Represents the type of error that the message is describing. Valid values are:
'BL' - Business Logic, 'OR' - A system related error, 'SY'.

20 CODE

Optional ? :No ; Varchar2 (25) ;() ; ; Uppercase ? :No ;

Contains a code for the error message. When an error is initially raised, the code is specified

30 LANG

Optional ? :No ; Number (6, 0) ;() ; ; Uppercase ? :No ;

Specifies what language the message text was written in. This number corresponds to a record in the RIB_LANG table.

40 TEXT

Optional ? :No ; Varchar2 (255) ;() ; ; Uppercase ? :No ;

Contains the text of the message.

50 APPROVED_IND

Optional ? :No ; Varchar2 (1) ;() ; ; Uppercase ? :No ;

Indicates whether or not the message has been approved. Valid values are 'Y' and 'N'

Table Definition

Container : RIB 11.0 Version :

Table Name : RIB_LANG Alias : RBL
Display Title :

Description : Used in conjunction with the RIB_ERRORS table to decode messages.

Volumes

Start Rows : End Rows :

Storage

Index-organized ? No

Column Summary

<u>Col.Seq.</u>	<u>Column</u>	<u>Nulls ?</u>	<u>Type</u>
10	LANG	NOT NULL	NUMBER (6, 0)
20	DESCRIPTION	NOT NULL	VARCHAR2 (30)

Primary Key

<u>Name</u>	<u>Column</u>
PK_RIB_LANG	LANG

Column Detail

10	LANG	Optional ? :No ; Number (6, 0) ;() ; ; Uppercase ? :No ; Contains a number that uniquely identifies a language.
20	DESCRIPTION	Optional ? :No ; Varchar2 (30) ;() ; ; Uppercase ? :No ; Contains a description or name for the language.

Table Definition

Container : RIB 11.0 Version :

Table Name : RIB_MESSAGE Alias : RMG
 Display Title :

Description : The main table of the four RIB Hospital tables, which usually reside in the subscribing application's database. Holds the elements from the <ribMessage> node.

Volumes

Start Rows : End Rows :

Storage

Index-organized ? No

Column Summary

<u>Col.Seq.</u>	<u>Column</u>	<u>Nulls ?</u>	<u>Type</u>
10	MESSAGE_NUM	NOT NULL	NUMBER (8, 0)
20	LOCATION	NOT NULL	VARCHAR2 (60)
30	FAMILY	NOT NULL	VARCHAR2 (25)
40	TYPE	NOT NULL	VARCHAR2 (30)
50	ID	NULL	VARCHAR2 (255)
60	RIB_MESSAGE_ID	NULL	VARCHAR2 (255)
70	PUBLISH_TIME	NULL	DATE
80	IN_QUEUE	NOT NULL	VARCHAR2 (1)
90	MESSAGE_DATA	NOT NULL	CLOB ()
100	ATTEMPT_COUNT	NOT NULL	NUMBER (4, 0)
110	MAX_ATTEMPTS	NOT NULL	NUMBER (4, 0)
120	NEXT_ATTEMPT_TIME	NULL	DATE
130	DELETE_PENDING	NOT NULL	VARCHAR2 (1)
140	TOPIC_NAME	NULL	VARCHAR2 (255)
150	THREAD_VALUE	NULL	NUMBER (22, 8)
160	JMS_QUEUE_ID	NULL	VARCHAR2 (255)
170	CUSTOM_FLAG	NOT NULL	VARCHAR2 (1)
180	CUSTOM_DATA	NULL	CLOB ()
190	REASON_CODE	NOT NULL	VARCHAR2 (10)

Primary Key

<u>Name</u>	<u>Column</u>
PK_RIB_MESSAGE	MESSAGE_NUM

Column Detail

10 MESSAGE_NUM

Table Definition

Container : RIB 11.0 Version :

Index Summary

<u>Name</u>	<u>Seq.</u>	<u>Column</u>	<u>Index Type</u>
RIB_MESSAGE_IX1	1	ID	NOT UNIQUE
RIB_MESSAGE_IX1	2	FAMILY	NOT UNIQUE
RIB_MESSAGE_IX1	3	LOCATION	NOT UNIQUE
RIB_MESSAGE_IX1	4	JMS_QUEUE_ID	NOT UNIQUE

Column Detail

Optional ? :No ; Number (8, 0) ;() ; ; Uppercase ? :No ;
 Unique primary key, generated from RIB_MESSAGE_SEQ sequence.

20 LOCATION

Optional ? :No ; Varchar2 (60) ;() ; ; Uppercase ? :No ;
 The collaboration (module) and e*Way (sub-module) of the publisher of this message.

30 FAMILY

Optional ? :No ; Varchar2 (25) ;() ; ; Uppercase ? :No ;
 The message family

40 TYPE

Optional ? :No ; Varchar2 (30) ;() ; ; Uppercase ? :No ;
 The message type.

50 ID

Optional ? :Yes ; Varchar2 (255) ;() ; ; Uppercase ? :No ;
 The Business Object ID

60 RIB_MESSAGE_ID

Optional ? :Yes ; Varchar2 (255) ;() ; ; Uppercase ? :No ;
 Unique identifier of where this message came from.

70 PUBLISH_TIME

Optional ? :Yes ; Date ;() ; ; Uppercase ? :No ;
 The timestamp of when this message was published

80 IN_QUEUE

Optional ? :No ; Varchar2 (1) ;() ; ; Uppercase ? :No ;
 Signifies whether message has been put back onto JMS.

90 MESSAGE_DATA

Optional ? :No ; Clob () ;() ; ; Uppercase ? :No ;
 The message data XML payload.

100 ATTEMPT_COUNT

Optional ? :No ; Number (4, 0) ;() ; ; Uppercase ? :No ;

Table Definition

Container : RIB 11.0 Version :

Column Detail

How many times this message has been retried.

110 MAX_ATTEMPTS

Optional ? :No ; Number (4, 0) ;() ; ; Uppercase ? :No ;

The maximum times this message will be retried (rib.properties).

120 NEXT_ATTEMPT_TIME

Optional ? :Yes ; Date ;() ; ; Uppercase ? :No ;

The next time this message will be retried (rib.properties).

130 DELETE_PENDING

Optional ? :No ; Varchar2 (1) ;() ; ; Uppercase ? :No ;

When set to 1, signals to Hospital Controller to delete this record and it's children.

140 TOPIC_NAME

Optional ? :Yes ; Varchar2 (255) ;() ; ; Uppercase ? :No ;

The JMS Topic where this message needs to be re-published to during retry.

150 THREAD_VALUE

Optional ? :Yes ; Number (22, 8) ;() ; ; Uppercase ? :No ;

The RIB thread that this message is being processed with.

160 JMS_QUEUE_ID

Optional ? :Yes ; Varchar2 (255) ;() ; ; Uppercase ? :No ;

The JMS hostname:port of the environment the message came from.

170 CUSTOM_FLAG

Optional ? :No ; Varchar2 (1) ;() ; ; Uppercase ? :No ; Default Value :F ;

Signifies whether the custom data tag is populated or not.

180 CUSTOM_DATA

Optional ? :Yes ; Clob () ;() ; ; Uppercase ? :No ;

The custom data/payload.

190 REASON_CODE

Optional ? :No ; Varchar2 (10) ;() ; ; Uppercase ? :No ; Default Value :SUB ;

A high level code representing why this record is in the Hospital. SUB (from subscriber), PUB (from publisher) or JMS (problem with JMS).

Table Definition

Container : RIB 11.0 Version :

Table Name : RIB_MESSAGE_FAILURE Alias : RMF
Display Title :

Description : A child table of the RIB Hospital. Holds the elements from the
<failure> nodes.

Volumes

Start Rows : End Rows :

Storage

Index-organized ? No

Column Summary

<u>Col.Seq.</u>	<u>Column</u>	<u>Nulls ?</u>	<u>Type</u>
10	MESSAGE_NUM	NOT NULL	NUMBER (8, 0)
20	SEQ_NUMBER	NOT NULL	NUMBER (2, 0)
30	TIME	NOT NULL	DATE
40	LOCATION	NOT NULL	VARCHAR2 (60)
50	DESCRIPTION	NOT NULL	VARCHAR2 (4000)
60	ERROR_TYPE	NOT NULL	VARCHAR2 (2)
70	ERROR_CODE	NULL	VARCHAR2 (25)

Primary Key

<u>Name</u>	<u>Column</u>
PK_RIB_MESSAGE_FAILURE	MESSAGE_NUM SEQ_NUMBER

Foreign Keys

RMF_RMG_FK

MESSAGE_NUM references RIB_MESSAGE.MESSAGE_NUM
Transferable ? Yes Update Rule : Restricted
Mandatory ? Yes Delete Rule : Restricted

Column Detail

10 MESSAGE_NUM
Optional ? :No ; Number (8, 0) ;() ; ; Uppercase ? :No ;
Unique primary key, generated from RIB_MESSAGE_SEQ sequence.

20 SEQ_NUMBER
Optional ? :No ; Number (2, 0) ;() ; ; Uppercase ? :No ;
Incrementing number for each subsequent failure

30 TIME

Table Definition

Container : RIB 11.0 Version :

Column Detail

Optional ? :No ; Date ;() ; ; Uppercase ? :No ;

Time of the Failure

40 LOCATION

Optional ? :No ; Varchar2 (60) ;() ; ; Uppercase ? :No ;

The collaboration (module) and e*Way (sub-module) of the publisher of this message.

50 DESCRIPTION

Optional ? :No ; Varchar2 (4000) ;() ; ; Uppercase ? :No ;

The error message or Exception itself.

60 ERROR_TYPE

Optional ? :No ; Varchar2 (2) ;() ; ; Uppercase ? :No ; Default Value :SY ;

The error type from the RIB_ERRORS table.

70 ERROR_CODE

Optional ? :Yes ; Varchar2 (25) ;() ; ; Uppercase ? :No ;

The error code from the RIB_ERRORS table.

Table Definition

Container : RIB 11.0 Version :

Table Name : RIB_MESSAGE_HOSPITAL_REF Alias : RMH
 Display Title :

Description : A child table of the RIB Hospital. Holds the elements from the
 <hospitalRef> nodes.

Volumes

Start Rows : End Rows :

Storage

Index-organized ? No

Column Summary

<u>Col.Seq.</u>	<u>Column</u>	<u>Nulls ?</u>	<u>Type</u>
10	MESSAGE_NUM	NOT NULL	NUMBER (8, 0)
20	SEQ_NUMBER	NOT NULL	NUMBER (2, 0)
30	HOSPITAL_REF	NOT NULL	VARCHAR2 (8)
40	LOCATION	NULL	VARCHAR2 (60)
50	MESSAGE_FAMILY	NULL	VARCHAR2 (25)
60	NEW_REASON_CODE	NULL	VARCHAR2 (10)
70	OLD_REASON_CODE	NULL	VARCHAR2 (10)

Primary Key

<u>Name</u>	<u>Column</u>
PK_RIB_MESSAGE_HOSPITAL_REF	MESSAGE_NUM SEQ_NUMBER

Foreign Keys

RMH_RMG_FK

MESSAGE_NUM references RIB_MESSAGE.MESSAGE_NUM
 Transferable ? Yes Update Rule : Restricted
 Mandatory ? Yes Delete Rule : Restricted

Column Detail

10 MESSAGE_NUM
 Optional ? :No ; Number (8, 0) ;() ; ; Uppercase ? :No ;
 Unique primary key, generated from RIB_MESSAGE_SEQ sequence.

20 SEQ_NUMBER
 Optional ? :No ; Number (2, 0) ;() ; ; Uppercase ? :No ;
 Incrementing number for each record.

30 HOSPITAL_REF

Table Definition

Container : RIB 11.0 Version :

Column Detail

Optional ? :No ; Varchar2 (8) ;() ; ; Uppercase ? :No ;

The MESSAGE_NUM of a record in the hospital to potentially update.

40 LOCATION

Optional ? :Yes ; Varchar2 (60) ;() ; ; Uppercase ? :No ;

The collaboration (module) and e*Way (sub-module) of the publisher of this message.

50 MESSAGE_FAMILY

Optional ? :Yes ; Varchar2 (25) ;() ; ; Uppercase ? :No ;

The Message Family

60 NEW_REASON_CODE

Optional ? :Yes ; Varchar2 (10) ;() ; ; Uppercase ? :No ;

The reason code this message in the hospital should be changed to.

70 OLD_REASON_CODE

Optional ? :Yes ; Varchar2 (10) ;() ; ; Uppercase ? :No ;

The reason code this message originally went into hospital with.

Table Definition

Container : RIB 11.0 Version :

Table Name : RIB_MESSAGE_ROUTING_INFO Alias : RMR
 Display Title :

Description : A child table of the RIB Hospital. Holds the elements from the
 <routingInfo> nodes.

Volumes

Start Rows : End Rows :

Storage

Index-organized ? No

Column Summary

<u>Col.Seq.</u>	<u>Column</u>	<u>Nulls ?</u>	<u>Type</u>
10	MESSAGE_NUM	NOT NULL	NUMBER (8, 0)
20	SEQ_NUMBER	NOT NULL	NUMBER (2, 0)
30	NAME	NOT NULL	VARCHAR2 (25)
40	VALUE	NOT NULL	VARCHAR2 (300)
50	DETAIL1_NAME	NULL	VARCHAR2 (25)
60	DETAIL1_VALUE	NULL	VARCHAR2 (300)
70	DETAIL2_NAME	NULL	VARCHAR2 (25)
80	DETAIL2_VALUE	NULL	VARCHAR2 (300)

Primary Key

<u>Name</u>	<u>Column</u>
PK_RIB_MESSAGE_ROUTING_INFO	MESSAGE_NUM SEQ_NUMBER

Foreign Keys

RMR_RMG_FK

MESSAGE_NUM references RIB_MESSAGE.MESSAGE_NUM
 Transferable ? Yes Update Rule : Restricted
 Mandatory ? Yes Delete Rule : Restricted

Column Detail

10 MESSAGE_NUM
 Optional ? :No ; Number (8, 0) ;() ; ; Uppercase ? :No ;
 Unique primary key, generated from RIB_MESSAGE_SEQ sequence.

20 SEQ_NUMBER
 Optional ? :No ; Number (2, 0) ;() ; ; Uppercase ? :No ;
 Incrementing number for each record.

Table Definition

Container : RIB 11.0 Version :

Column Detail

30 NAME

Optional ? :No ; Varchar2 (25) ;() ; ; Uppercase ? :No ;
Contains the RoutingInfo <name> element

40 VALUE

Optional ? :No ; Varchar2 (300) ;() ; ; Uppercase ? :No ;
Contains the RoutingInfo <value> element.

50 DETAIL1_NAME

Optional ? :Yes ; Varchar2 (25) ;() ; ; Uppercase ? :No ;
Contains the first RoutingInfoDetail <name> element.

60 DETAIL1_VALUE

Optional ? :Yes ; Varchar2 (300) ;() ; ; Uppercase ? :No ;
Contains the first RoutingInfoDetail <value> element.

70 DETAIL2_NAME

Optional ? :Yes ; Varchar2 (25) ;() ; ; Uppercase ? :No ;
Contains the second RoutingInfoDetail <name> element.

80 DETAIL2_VALUE

Optional ? :Yes ; Varchar2 (300) ;() ; ; Uppercase ? :No ;
Contains the second RoutingInfoDetail <value> element.

Table Definition

Container : RIB 11.0 Version :

Table Name : RIB_SETTINGS Alias : RST
 Display Title :

Description : Table resides in database, and only current implementation is for non-J2EE applications. Contains the message publishing aggregation configuration for each message family (Oracle Object interfaces only).

Volumes

Start Rows : End Rows :

Storage

Index-organized ? No

Column Summary

<u>Col.Seq.</u>	<u>Column</u>	<u>Nulls ?</u>	<u>Type</u>
10	FAMILY	NOT NULL	VARCHAR2 (25)
20	MAX_DETAILS_TO_PUBLISH	NOT NULL	NUMBER (6, 0)
30	NUM_THREADS	NOT NULL	NUMBER (4, 0)
40	MINUTES_TIME_LAG	NOT NULL	NUMBER (4, 0)

Primary Key

<u>Name</u>	<u>Column</u>
PK_RIB_SETTINGS	FAMILY

Column Detail

10 FAMILY
 Optional ? :No ; Varchar2 (25) ;() ; ; Uppercase ? :No ;
 The Message Family

20 MAX_DETAILS_TO_PUBLISH
 Optional ? :No ; Number (6, 0) ;() ; ; Uppercase ? :No ;
 How many details to include in a message before publishing it.

30 NUM_THREADS
 Optional ? :No ; Number (4, 0) ;() ; ; Uppercase ? :No ;
 The number of threads to use when publishing. Also used to determine the thread value when publishing.

40 MINUTES_TIME_LAG
 Optional ? :No ; Number (4, 0) ;() ; ; Uppercase ? :No ;
 The number of minutes that a publishing application may wait before publishing an 'incomplete' business object create message.

Container : RIB 11.0 Version :

Description : Table defines, on a per message family/ message type basis, whether informational and debugging log entries should be output using the DBMS_OUTPUT Oracle packages and/or written to a log file.

Start Rows : End Rows :

Index-organized ? No

<u>Col.Seq.</u>	<u>Column</u>	<u>Nulls</u> ?	<u>Type</u>
10	FAMILY	NOT NULL	VARCHAR2 (25)
20	TYPE	NOT NULL	VARCHAR2 (25)
30	DO_DBMS_OUTPUT	NOT NULL	VARCHAR2 (1)
40	DO_LOG_OUTPUT	NOT NULL	VARCHAR2 (1)

<u>Name</u>	<u>Column</u>
PK_RIB_TYPE_SETTINGS	FAMILY TYPE

```
FK_RIB_SETTINGS_FAMILY
    FAMILY references RIB_SETTINGS.FAMILY
Transferable ? Yes           Update Rule : Restricted
Mandatory ?      Yes        Delete Rule : Restricted
```

```

10  FAMILY
    Optional ? :No ; Varchar2 (25) ;() ; ; Uppercase ? :No ;
    The Message Family

20  TYPE
    Optional ? :No ; Varchar2 (25) ;() ; ; Uppercase ? :No ;
    The Message Type

30  DO_DBMS_OUTPUT
    Optional ? :No ; Varchar2 (1) ;() ; ; Uppercase ? :No ; Default Value :N ;
    Set to 'Y' if DBMS_OUTPUT is on, 'N' if not. Defaults to 'N'.

```

Table Definition

Container : RIB 11.0 Version :

Column Detail

40 DO_LOG_OUTPUT

Optional ? :No ; Varchar2 (1) ;() ; ; Uppercase ? :No ; Default Value :N ;
Set to 'Y' if Log to file is on, 'N' if not. Defaults to 'N'.

Oracle Designer

TABLE DEFINITION

End of Report