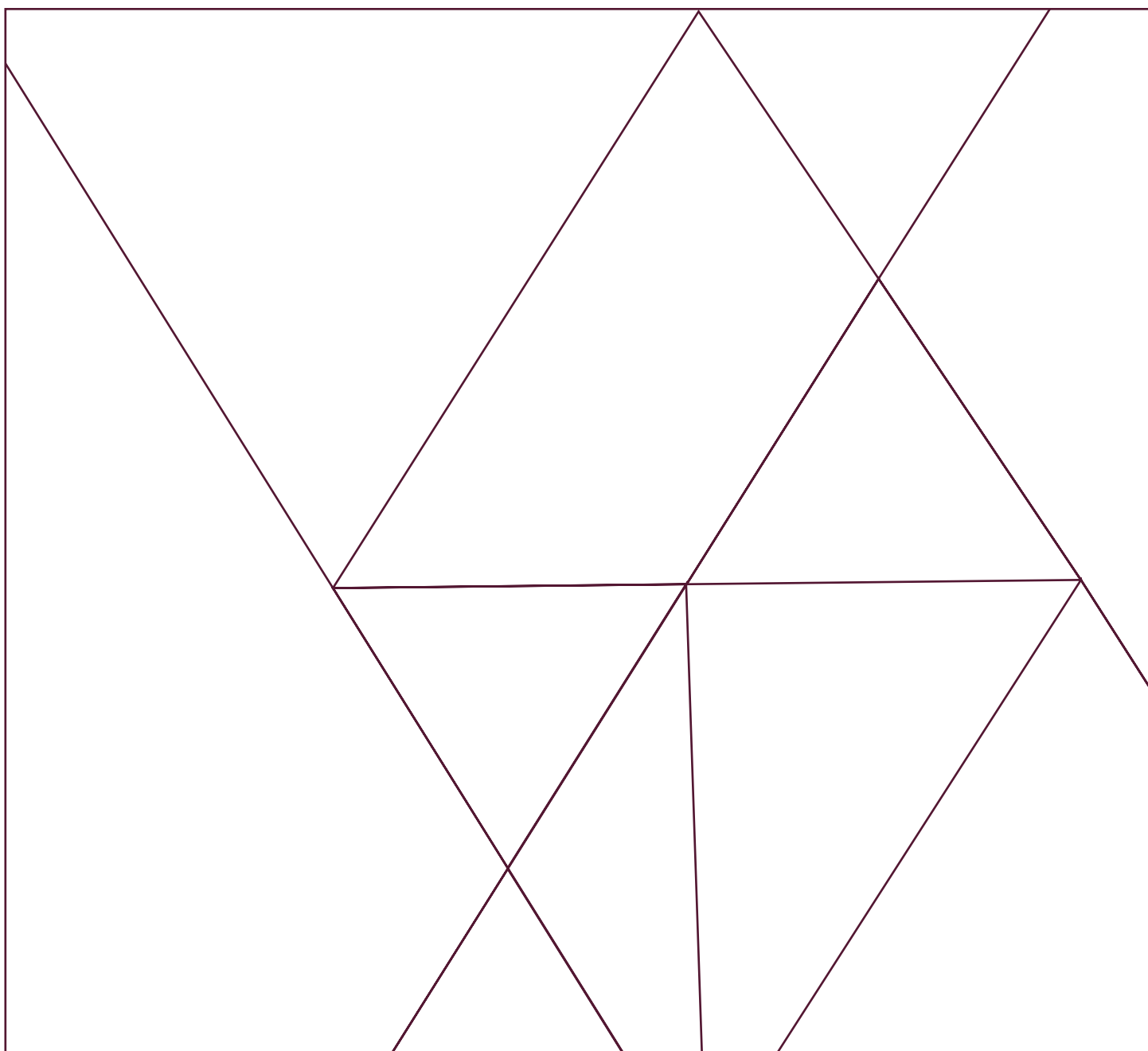


# Corporate Bond Securities



# Table of contents

<b>Table of contents</b>	<b>2</b>		<b>22</b>
<b>Purpose of this document</b>	<b>4</b>		<b>22</b>
<b>Generated files</b>	<b>4</b>		<b>22</b>
<b>File layouts</b>	<b>5</b>		<b>23</b>
AGENT	5	ISSUER_CUSIP	22
AMOUNT_OUTSTANDING	5	ISSUER_CUSIP_HIST	22
AMT_OUT_HIST	6	ISSUER_RESTRICTIVE	22
ANNOUNCED_CALL	6	ISSUER_SIC_CODE	23
BANKRUPTCY	6	MAINT_REPLACE	23
BANKRUPTCY_AGENT	7	NAME_CHANGE_HIST	24
BONDHOLDER_PROTECTIVE	7	NOTES	24
CALL_SCHEDULE	8	OTHER_SECURITY	24
CHANGE_FORMULA	9	OVERALLOTMENT	25
CHANGE_SCHEDULE	9	POISON_PUT_SCHED	25
CODE	9	PUT	25
CONTACT	10	PUT_SCHEDULE	26
CONVERTIBLE	10	RATING	26
CONVERTIBLE_ADDITIONAL_TERMS	12	RATING_HIST	26
CONVERTIBLE_HISTORY	13	REDEMPTION	27
CONVERTIBLE_ISSUER_HISTORY	13	RELATED_ISSUES	28
CONVERTIBLE_SOFT_CALL_SCHED	14	SF_SCHEDULE	28
COUPON_FORMULAINDEX	14	SINKING_FUND	29
COUPON_INFO	15	SUBS_RESTRICTIVE	29
CUSIP_CHANGE_HIST	15	TENDER_EXCH	30
EXCHANGE_LISTING	15	TREASURY	30
FOREIGN_CURRENCY	16	TREASURY_STRIPS	32
IPO_CLAWBACK	16	UNIT	32
ISSUE	16	WARRANT	32
ISSUE_AFFECTED	19	WARRANT_REDEMP_SCHED	34
ISSUE_AGENTS	19	INTRADAY AND DAILY UPDATE FILES	34
ISSUE_DEFAULT	20	<b>Code translation values</b>	<b>35</b>
ISSUE_ENHANCEMENT	20	<b>Relational diagram</b>	<b>62</b>
ISSUE_EXCHANGE	20		
ISSUER	21		

## Changes in this version (September 1, 2017)

- Updated code translation values table.
- Added abbreviated relational diagram.
- Added principal\_protected and principal\_protected\_percentage to the issue (ISSUE) table.
- Other minor changes and/or corrections.

# Purpose of this document

This document presents a brief overview of the FTSE Russell Corporate Bond Securities Data product to current or prospective clients. It describes the structure and layout of the output files generated for delivery to clients and can be used to evaluate the content and structure of the information available, or to answer specific questions you may have.

Please contact your FTSE Russell sales representative or customer service representative with any questions you may have regarding your current subscriptions to products or services or to request information regarding other products or services that may be of interest to you.

Contact information can be found at the end of this document to be used for any questions, requests or comments you may have regarding the FTSE Russell Corporate Bond Data product.

## Generated files

The standard corporate feed consists of fifty-five (55) files which are listed below along with their associated table:

<b>agent.*</b> – agent	<b>coupform.*</b> – coupon_formulaindex	<b>overallt.*</b> – overallotment
<b>amtout.*</b> – amount_outstanding	<b>coupinfo.*</b> – coupon_info	<b>poisnput.*</b> – poison_put_sched
<b>aouthist.*</b> – amt_out_hist	<b>cusiphst.*</b> – cusip_change_hist	<b>put.*</b> – put
<b>ancecall.*</b> – announced_call	<b>exchlist.*</b> – exchange_listing	<b>putsched.*</b> – put_schedule
<b>bnkrupcy.*</b> – bankruptcy	<b>forcrcncy.*</b> – foreign_currency	<b>rating.*</b> – rating
<b>bkrupagt.*</b> – bankruptcy_agent	<b>clawback.*</b> – ipo_clawback	<b>ratnghst.*</b> – rating_hist
<b>bondhold.*</b> – bondholder_	<b>issue.*</b> – issue	<b>redemptn.*</b> – redemption
protective	<b>issuer.*</b> – issuer	<b>relissue.*</b> – related_issues
<b>callschd.*</b> – call_schedule	<b>isscusip.*</b> – issuer_cusip	<b>sfsched.*</b> – sf_schedule
<b>chnghform.*</b> – change_formula	<b>isucuhst.*</b> – issuer_cusip_hist	<b>sinkfund.*</b> – sinking_fund
<b>chgsched.*</b> – change_schedule	<b>isurestr.*</b> – issuer_restrictive	<b>subrestr.*</b> – subs_restrictive
<b>code.*</b> – code	<b>isursicc.*</b> – issuer_sic_code	<b>tendexch.*</b> – tender_exch
<b>contact.*</b> – contact	<b>isuafctd.*</b> – issue_affected	<b>treasury.*</b> – treasury
<b>convtble.*</b> – convertible	<b>isuagent.*</b> – issue_agents	<b>treastrip.*</b> – treasury_strips
<b>convatrm.*</b> – convertible_	<b>isudeflt.*</b> – issue_default	<b>unit.*</b> – unit
additional_terms	<b>isunhanc.*</b> – issue_enhancement	<b>warrant.*</b> – warrant
<b>convhist.*</b> – convertible_history	<b>isuxchng.*</b> – issue_exchange	<b>wareschd.*</b> – warrant_redemp_
<b>convihist.*</b> – convertible_issuer_	<b>maintrep.*</b> – maint_replace	sched
history	<b>namehist.*</b> – name_change_hist	
<b>convsoft.*</b> – convertible_soft_call_	<b>notes.*</b> – notes	
sched	<b>othsecty.*</b> – other_security	
		<b>note:</b> file extension based on feed type

In each output file the data elements are separated by a “|” and all dates are in “MM/DD/YYYY” format unless specified otherwise. Intraday and daily update files will have two additional columns, “action” and “table\_name”, which appear at the beginning of each record and are further defined in the “File Layouts” section.

# File layouts

Following are the various table and field names contained on the Corporate Bond Securities Data Feed (FISD). Items listed as being reserved for future use are currently unavailable. Also, depending on your current use of FISD data, some tables and/or fields may not be available to you:

## AGENT

The table, AGENT, lists the name and address of all public or private companies, government agencies or other organizations named in the data feed. Agents include issuers, trustees, underwriters and bankruptcy trustees.

FIELD NAME	FORMAT	DESCRIPTION
<b>agent_id</b>	NUMBER	A unique FTSE Russell -generated number to identify each agent.
<b>legal_name</b>	VARCHAR2(128)	The agent's legal name.
<b>addr1</b>	VARCHAR2(64)	First line of the agent's street address.
<b>addr2</b>	VARCHAR2(64)	Second line of the agent's street address.
<b>city</b>	VARCHAR2(32)	The city of the agent's mailing address.
<b>state</b>	VARCHAR2(2)	State in agent's mailing address (if applicable).
<b>zipcode</b>	VARCHAR2(10)	The postal zip code of the agent's mailing address.
<b>province</b>	VARCHAR2(30)	The province in the agent's mailing address (if applicable).
<b>country</b>	VARCHAR2(16)	The country in the mailing address of the agent.
<b>main_phone</b>	VARCHAR2(20)	The agent's main phone number.
<b>main_fax</b>	VARCHAR2(20)	The agent's main fax number.
<b>note</b>	VARCHAR2(256)	A brief note about the agent.

## AMOUNT\_OUTSTANDING

The table, AMOUNT\_OUTSTANDING, contains the current dollar amount that remains in each issue and the date and reason for any changes that have occurred.

FIELD NAME	FORMAT	DESCRIPTION
<b>issue_id</b>	NUMBER	A FTSE Russell -generated number unique to each issue used to link each issue's data among the data feed tables.
<b>action_type</b>	VARCHAR2(4)	A four-letter code representing the type of action that took place to change the amount outstanding.
<b>effective_date</b>	DATE	The date on which the change to the issue's amount outstanding became effective. The date is set to the end of the quarter or the end of the fiscal year when the date is not available.
<b>action_price</b>	NUMBER(15,5)	Price, expressed as a percentage of the issue's par value, which the issuer has paid (will pay) for each bond tendered in the action.
<b>action_amount</b>	NUMBER(20,5)	The amount by which the issue's amount outstanding was adjusted. For example, the amount of the issue called, repurchased, or exchanged.
<b>amount_outstanding</b>	NUMBER(20,5)	The amount of the issue remaining outstanding.

## AMT\_OUT\_HIST

The table, AMT\_OUT\_HIST, provides a historical record of the changes in the amount outstanding for each issue in the data feed. Historical data has been maintained in the AMT\_OUT\_HIST table since April 1995.

FIELD NAME	FORMAT	DESCRIPTION
<b>transaction_id</b>	NUMBER	A FTSE Russell -generated number unique to each record, highest number will be the most current.
<b>issue_id</b>	NUMBER	A FTSE Russell -generated number unique to each issue used to link each issue's data among the data feed tables.
<b>action_type</b>	VARCHAR2(4)	A four-letter code representing the type of action that took place to change the amount outstanding.
<b>effective_date</b>	DATE	The date on which the change to the issue's amount outstanding became effective. The date is set to the end of the quarter or the end of the fiscal year when the date is not available.
<b>action_price</b>	NUMBER(15,5)	Price, expressed as a percentage of the issue's par value, which the issuer has paid (will pay) for each bond tendered in the action.
<b>action_amount</b>	NUMBER(20,5)	The amount by which the issue's amount outstanding was adjusted. For example, the amount of the issue called, repurchased, or exchanged.
<b>amount_outstanding</b>	NUMBER(20,5)	The amount of the issue remaining outstanding as of the effective date.

## ANNOUNCED\_CALL

The table, ANNOUNCED\_CALL, provides users with a schedule of future announced partial or full calls for every issue in the data feed.

FIELD NAME	FORMAT	DESCRIPTION
<b>call_date</b>	DATE	The date upon which the call will take place.
<b>action_type</b>	VARCHAR2(4)	A four-letter code representing the type of action that took place to change the amount outstanding.
<b>issue_id</b>	NUMBER	A FTSE Russell -generated number unique to each issue used to link each issue's data among the data feed tables.
<b>call_amount</b>	NUMBER(20,5)	Dollar amount of issue to be called.
<b>call_price</b>	NUMBER(15,5)	Price, expressed as a percentage of the issue's par value, which the issuer will pay for each bond tendered in the call.

## BANKRUPTCY

The table, BANKRUPTCY, provides users with detailed information on issuers that are or have been involved in bankruptcy proceedings.

FIELD NAME	FORMAT	DESCRIPTION
<b>filing_date</b>	DATE	Date on which the bankruptcy petition was filed.
<b>issuer_id</b>	NUMBER	A FTSE Russell -generated number unique to each issuer used to link each issuer's data among the data feed tables.
<b>filing_type</b>	VARCHAR2(4)	A four-letter code denoting the type of bankruptcy filing.
<b>plan_confirmed</b>	VARCHAR2(1)	A flag indicating that the reorganization plan has been confirmed by the court.
<b>plan_approved_date</b>	DATE	The date on which the company's plan becomes effective, and it emerges from bankruptcy.
<b>effective_date</b>	DATE	The effective date of this entry into the bankruptcy table.

## BANKRUPTCY\_AGENT

The table, BANKRUPTCY\_AGENT, lists the issue's bankruptcy trustee and exchange agent.

FIELD NAME	FORMAT	DESCRIPTION
<b>agent_id</b>	NUMBER	A unique FTSE Russell -generated number to identify each agent.
<b>issuer_id</b>	NUMBER	A FTSE Russell -generated number unique to each issuer used to link each issuer's data among the data feed tables.
<b>filing_date</b>	DATE	Filing date of bankruptcy petition.
<b>agent_type</b>	VARCHAR2(4)	A four-letter code describing the agent's role in the bankruptcy. (e.g., Trustee, Legal Counsel, etc.).

## BONDHOLDER\_PROTECTIVE

The table, BONDHOLDER\_PROTECTIVE, indicates whether or not certain covenants, designed to protect bondholders, are present in the issue's indenture. If the covenant is present in the indenture, the variable is set to "Y". Otherwise, its value is "N".

FIELD NAME	FORMAT	DESCRIPTION
<b>issue_id</b>	NUMBER	A FTSE Russell -generated number unique to each issue used to link each issue's data among the data feed tables.
<b>negative_pledge_covenant</b>	VARCHAR2(1)	The issuer cannot issue secured debt unless it secures the current issue on a pari passu basis.
<b>covenant_defeas_wo_tax_conseq</b>	VARCHAR2(1)	Gives the issuer the right to defease indenture covenants without tax consequences for bondholders. If exercised, this would free the issuer from covenants set forth in the indenture or prospectus, but leaves them liable for the remaining debt. The issuer must also set forth an opinion of counsel that states bondholders will not recognize income for federal tax purposes as a result of the defeasance.
<b>legal_defeasance</b>	VARCHAR2(1)	Gives the issuer the right to defease the monetary portion of the security. Legal defeasance occurs when the issuer places in an escrow account an amount of money or US government securities sufficient to match the remaining interest and principle payments of the current issue. This removes the debt from the issuers' balance sheet, but leaves the borrower still liable for covenants set forth under the indenture. This type of defeasance may have tax consequences for bondholders.
<b>defeasance_wo_tax_conseq</b>	VARCHAR2(1)	Gives the issuer the right to defease the monetary portion of the security without tax consequence for bondholders. This type of defeasance occurs when the issuer places in an escrow account an amount of money or US government securities sufficient to match the remaining interest and principle payments of the current issue. This removes the debt from the issuers' balance sheet, but leaves the borrower still liable for covenants set forth under the indenture. The issuer must also set forth an opinion of counsel that states bondholders will not recognize income for federal tax purposes as a result of the defeasance.
<b>cross_default</b>	VARCHAR2(1)	A bondholder protective covenant that will activate an event of default in their issue, if an event of default has occurred under any other debt of the company.
<b>cross_acceleration</b>	VARCHAR2(1)	A bondholder protective covenant that allows the holder to accelerate their debt, if any other debt of the organization has been accelerated due to an event of default.
<b>change_control_put_provisions</b>	VARCHAR2(1)	Upon a change of control in the issuer, bondholders have the option of selling the issue back to the issuer (poison put). Other conditions may limit the bondholder's ability to exercise the put option. Poison puts are often used when a company fears an unwanted takeover by ensuring that a successful hostile takeover bid will trigger an event that substantially reduces the value of the company.

FIELD NAME	FORMAT	DESCRIPTION
<b>voting_power_percentage</b>	NUMBER(15,5)	The issue's change of control provisions are triggered if an investor controls more than this percentage of the issuer's stock. Designed as a hostile takeover defense.
<b>voting_power_percentage_erp</b>	NUMBER(15,5)	The issue's change of control provisions are triggered if the issuer's employee retirement plan controls more than this percentage of the issuer's stock. Designed as a hostile takeover defense.
<b>rating_decline_trigger_put</b>	VARCHAR2(1)	A decline in the credit rating of the issuer (or issue) triggers a bondholder put provision.
<b>rating_decline_provision</b>	VARCHAR2(256)	Describes the consequences of a drop in the issue's credit rating below some preset minimum.
<b>declining_net_worth</b>	VARCHAR2(1)	If issuer's net worth (as defined) falls below minimum level, certain bond provisions are triggered.
<b>declining_net_worth_trigger</b>	NUMBER(20,5)	Issuer's minimum net worth (as defined) which triggers special provisions.
<b>declining_net_worth_percentage</b>	NUMBER(15,5)	Percentage of bonds to be redeemed.
<b>declining_net_worth_provisions</b>	VARCHAR2(256)	Additional requirements needed to trigger mandatory redemption.
<b>after_acquired_property_clause</b>	VARCHAR2(1)	Property acquired after the sale of current debt issues will be included in the current issuer's mortgage. Normally found in utility issuers with blanket mortgages.
<b>economic_cov_def</b>	VARCHAR2(1)	Gives the issuer the right to defease indenture covenants. If exercised, this would free the issuer from covenants set forth in the indenture or prospectus, but leaves them liable for the remaining debt. This type of defeasance may have tax consequences for bondholders.
<b>asset_sale_clause</b>	VARCHAR2(1)	Covenant requiring the issuer to use net proceeds from the sale of certain assets to redeem the bonds at par or at a premium. This covenant does not limit the issuers' right to sell assets.

## CALL\_SCHEDULE

The table, CALL\_SCHEDULE, lists the complete call schedule (date and price) for each issue in the data feed. Discrete calls at par for MTN takedowns may only include the first call date and price, depending on the number of call dates.

FIELD NAME	FORMAT	DESCRIPTION
<b>call_date</b>	DATE	Effective date of the bond call.
<b>issue_id</b>	NUMBER	A FTSE Russell -generated number unique to each issue used to link each issue's data among the data feed tables.
<b>call_price</b>	NUMBER(15,5)	Price, expressed as a percent of par, at which the issue may be called, for the period beginning at the current Call_date and ending with the next Call_date (if specified) or the security's maturity.



## CHANGE\_FORMULA

The table, CHANGE\_FORMULA, details on the coupon structure of floating rate notes, including the periodicity with which the coupon resets.

FIELD NAME	FORMAT	DESCRIPTION
<b>issue_id</b>	NUMBER	A FTSE Russell -generated number unique to each issue used to link each issue's data among the data feed tables.
<b>fix_frequency</b>	VARCHAR2(4)	A four-letter code indicating how often the coupon will be reset.
<b>determination_date</b>	DATE	The next date as of which the coupon for floating rate securities is calculated.
<b>greater_of</b>	VARCHAR2(1)	A flag indicating that the issue's coupon resets to the greater of the associated rate calculation formulas in the INDEX table.
<b>lesser_of</b>	VARCHAR2(1)	A flag indicating that the issue's coupon resets to the lesser of the associated rate calculation formulas in the INDEX table.
<b>see_note</b>	VARCHAR(1)	Indicates that the structure of the coupon formula could not be captured fully in within the table, COUPON_FORMULA_INDEX. More detailed information on the coupon formula is included in the associated text footnote.
<b>reset_date</b>	DATE	The next date as of which the issue will begin to accrue interest at the new coupon rate. The new coupon rate is calculated as of the determination date.
<b>determination_date_orig</b>	DATE	Used for historical purposes, this field represents the first date a new interest rate was calculated for this issue.
<b>reset_date_orig</b>	DATE	Used for historical purposes, this field represents the first date as of which the issue began to accrue interest at the first calculated coupon rate.

## CHANGE\_SCHEDULE

The table, CHANGE\_SCHEDULE, provides the schedule of interest rate changes for variable rate notes. Variable rate notes have a preset schedule of changing interest rates (e.g., a three-year issue which pays 6% interest in year one, 7% in year two and 8% in year three). Note that an issue may have multiple records in the table CHANGE\_SCHEDULE.

FIELD NAME	FORMAT	DESCRIPTION
<b>change_date</b>	DATE	The date on which the coupon will change.
<b>issue_id</b>	NUMBER	A FTSE Russell -generated number unique to each issue used to link each issue's data among the data feed tables.
<b>new_coupon</b>	NUMBER(7,5)	The effective interest rate from the current change_date to the next change_date (if applicable) or the issue's final maturity.

## CODE

The table, CODE, contains the various codes used throughout the Corporate Bond Securities Data Feed.

FIELD NAME	FORMAT	DESCRIPTION
<b>code</b>	VARCHAR2(4)	A one to four character string used to represent the longer Description field. These values are used to populate the various fields in the data feed requiring codes.
<b>type</b>	VARCHAR2(25)	The category into which the specific code fits (e.g., ACTION_TYPE, CURRENCY, etc.).
<b>description</b>	VARCHAR2(64)	A long description of the code.

## CONTACT

The table, CONTACT, lists the name, address, phone and fax numbers of key contacts at all agents in the data feed (when available).

FIELD NAME	FORMAT	DESCRIPTION
<b>contact_id</b>	NUMBER	A unique FTSE Russell -generated number to identify each contact.
<b>agent_id</b>	NUMBER	A unique FTSE Russell -generated number to identify each agent.
<b>phone</b>	VARCHAR2(20)	The contact's phone number.
<b>fax</b>	VARCHAR2(20)	The facsimile number of the contact.
<b>prename</b>	VARCHAR2(4)	The title abbreviation used before the contact's name (e.g., Mr., Ms., Dr.).
<b>firstname</b>	VARCHAR2(20)	The contact's first name.
<b>middleinit</b>	VARCHAR2(4)	The contact's middle initial.
<b>lastname</b>	VARCHAR2(20)	The contact's last name.
<b>postname</b>	VARCHAR2(4)	The contact's post name title (e.g., Ph.D. MD., DDS).
<b>position_title</b>	VARCHAR2(64)	The contact's job title.
<b>department</b>	VARCHAR2(64)	The name of the department in which the contact works.
<b>note</b>	VARCHAR2(256)	A brief note about the contact.

## CONVERTIBLE

The table, CONVERTIBLE, contains information on convertible and exchangeable issues in the data feed, including the commodity into which the issue is convertible or exchangeable, the conversion premium at issuance, and restrictions on conversion or exchange (if applicable).

FIELD NAME	FORMAT	DESCRIPTION
<b>issue_id</b>	NUMBER	A FTSE Russell -generated number unique to each issue used to link each issue's data among the data feed tables.
<b>conv_commod_issuer</b>	VARCHAR2(64)	The name of the issuer of the exchange commodity.
<b>conv_commod_type</b>	VARCHAR2(4)	A four-letter code indicating what the conversion commodity is (e.g., common stock, preferred stock, copper, gold bullion, etc.).
<b>conv_commod_cusip</b>	VARCHAR2(9)	The CUSIP of the conversion commodity.
<b>exchange</b>	VARCHAR2(4)	A four-letter code indicating the conversion commodity's principal securities exchange.
<b>ticker</b>	VARCHAR2(6)	The ticker of the conversion commodity.
<b>conv_price</b>	NUMBER(15,5)	Conversion price of the conversion commodity as of the AS_OF_DATE.
<b>qty_of_commod</b>	NUMBER(15,5)	The quantity of the conversion commodity that the bondholder will receive upon conversion as of the AS_OF_DATE.
<b>percent_of_outstanding_commod</b>	NUMBER(15,5)	The percentage of the total conversion commodity available through conversion of the issue as of the AS_OF_DATE.
<b>conv_cash</b>	NUMBER(15,5)	Additional cash payable by bondholder to effect conversion.
<b>conv_eff_date</b>	DATE	First date on which issue may be converted. It is the settlement date, if not specified.
<b>conv_exp_date</b>	DATE	Date on which conversion privilege expires. It is the day prior to the issue's maturity if no date is given.
<b>dilution_protection</b>	VARCHAR2(1)	A flag indicating whether or not the quantity of commodity will be adjusted for stock splits, dividends, distributions, or other specified events.
<b>commod_price</b>	NUMBER(15,5)	Market price of the conversion commodity as of the AS_OF_DATE.

FIELD NAME	FORMAT	DESCRIPTION
<b>conv_premium</b>	NUMBER(15,5)	The percentage difference between the conversion price and the market price of the conversion commodity as of the AS_OF_DATE.
<b>conv_redemp_exception</b>	VARCHAR2(1)	Flag indicating whether a soft call provision has been specified.
<b>conv_redemp_date</b>	DATE	End date of current soft call feature.
<b>conv_price_percent</b>	NUMBER(15,5)	Minimum percentage of the applicable conversion price at which the conversion commodity must trade at before restrictions on redemption are lifted.
<b>conv_part_trade_days</b>	NUMBER(3)	The number of trading days that the conversion security must trade at or above a certain price to allow redemption.
<b>conv_total_trade_days</b>	NUMBER(3)	Number of trading days during which the conversion commodity's price is measured for lifting redemption restrictions.
<b>conv_period_spec</b>	VARCHAR2(1)	Indicates whether or not the bondholder must submit their security for conversion in a specified time period prior to redemption.
<b>conv_period_days</b>	NUMBER(3)	Number of days prior to the announced redemption date that the bondholders are allowed to convert their bonds..
<b>agent_id</b>	NUMBER	A unique FTSE Russell -generated number to identify each agent.
<b>shares_outstanding</b>	NUMBER(15,5)	The total number of securities/shares of the conversion commodity outstanding as of the AS_OF_DATE.
<b>orig_conv_price</b>	NUMBER(15,5)	Conversion price of the conversion commodity when the issue was first offered.
<b>orig_commod_price</b>	NUMBER(15,5)	Market price of the conversion commodity when the issue was first offered.
<b>orig_conv_premium</b>	NUMBER(15,5)	The percentage difference between the conversion price and the market price of the conversion commodity when the issue was first offered.
<b>orig_shares_outstanding</b>	NUMBER(15,5)	The total number of securities/shares of the conversion commodity when the issue was first offered.
<b>orig_percent_outstanding_com</b>	NUMBER(15,5)	The percentage of the total conversion commodity available through conversion of the issue when the issue was first offered.
<b>orig_qty_of_commod</b>	NUMBER(15,5)	The quantity of the conversion commodity that the bondholder would have received when the security was first offered.
<b>as_of_date</b>	DATE	The date the current convertible information was added to the issue.
<b>reason</b>	VARCHAR2(10)	The reason for the change of the convertible information on the change_date.
<b>change_date</b>	DATE	The date the current convertible information was added to the issue.
<b>split_date</b>	DATE	The date of the last known conversion commodity split.
<b>split_ratio</b>	VARCHAR2(10)	The ratio to which the conversion commodity was split.
<b>conditional_conv_terms</b>	VARCHAR2(1)	A flag indicating the security has conditional conversion terms specified in the convertible_additional_terms table.
<b>soft_call_make_whole</b>	VARCHAR2(1)	A flag indicating the soft call feature contains a make whole payment provision specified in the convertible_additional_terms table.
<b>peps</b>	VARCHAR2(1)	A flag indicating the issue has additional conversion terms (dealing with a high and low conversion commodity selling price) specified in the convertible_additional_terms table.
<b>percs</b>	VARCHAR2(1)	A flag indicating the security has maximum payoff upon conversion specified in the convertible_additional_terms table.
<b>conv_prohibited_from</b>	DATE	Start date of current soft call feature.
<b>convert_on_call</b>	VARCHAR2(1)	A flag indicating whether the holder is able to convert their security if it is called for redemption.

## CONVERTIBLE\_ADDITIONAL\_TERMS

The table, CONVERTIBLE\_ADDITIONAL\_TERMS, contains additional and conditional conversion terms (when available) not specified in the CONVERTIBLE table.

FIELD NAME	FORMAT	DESCRIPTION
<b>issue_id</b>	NUMBER	A FTSE Russell -generated number unique to each issue used to link each issue's data among the data feed tables.
<b>coco_start_date</b>	DATE	Date at which conversion becomes conditional.
<b>coco_end_date</b>	DATE	Last date that the conditional conversion terms apply.
<b>coco_initial_trigger_percent</b>	NUMBER(6,3)	Stock price level initially required to trigger conditional conversion.
<b>coco_trigger_expressed_as</b>	VARCHAR2(4)	A four-letter code indicating how the coco_initial_trigger_percent is expressed.
<b>coco_change_rate</b>	NUMBER(6,3)	Annual percentage change of the coco_initial_trigger_percent.
<b>coco_min_trigger_level</b>	NUMBER(6,3)	The lowest number the trigger percent will reach.
<b>coco_change_frequency</b>	VARCHAR2(4)	A four-letter code indicating the change frequency of the trigger percent.
<b>coco_trade_days</b>	VARCHAR2(32)	The number of trading days that the conversion commodity must trade at or above the trigger percent.
<b>coco_trade_days_in_previous</b>	VARCHAR2(32)	The time period in which the coco_trade_days are measured.
<b>sc_make_whole_start_date</b>	DATE	The date from which a soft call make-whole payment becomes payable if the bond is called for redemption.
<b>sc_make_whole_end_date</b>	DATE	The final date at which a soft call make-whole payment is payable if the bond is called for redemption.
<b>sc_make_whole_decrement_type</b>	VARCHAR2(32)	A four-letter code indicating how the soft call make-whole payment decreases over time when the bond is called for redemption.
<b>sc_make_whole_initial_amount</b>	NUMBER(6,3)	The initial soft call make-whole payment amount that would be payable if the bond were called for redemption on the soft call make-whole start date.
<b>sc_make_whole_change_percent</b>	NUMBER(6,3)	The percentage (of the face value) by which the soft call make-whole payment payable is reduced on an annual basis if the bond is called for redemption.
<b>peps_max_conversion_ratio</b>	NUMBER(8,5)	Maximum value of the conversion ratio.
<b>peps_min_conversion_ratio</b>	NUMBER(8,5)	Minimum value of the conversion ratio.
<b>peps_higher_price</b>	NUMBER(8,5)	Conversion commodity price at which minimum conversion ratio applies.
<b>peps_lower_price</b>	NUMBER(8,5)	Conversion commodity price at which maximum conversion ratio applies.
<b>peps_issue_price</b>	NUMBER(8,5)	The face value or principal amount of the bond.
<b>percs_max_payoff</b>	NUMBER(8,5)	Maximum payoff bondholder will receive upon conversion or at maturity per PERCS.

## CONVERTIBLE\_HISTORY

The table, CONVERTIBLE\_HISTORY, provides a historical record of the changes made to conversion/exchangeable information in the convertible table. Historical data has been stored in the CONVERTIBLE\_HISTORY table since September 2001.

FIELD NAME	FORMAT	DESCRIPTION
<b>issue_id</b>	NUMBER	A FTSE Russell -generated number unique to each issue used to link each issue's data among the data feed tables.
<b>as_of_date</b>	DATE	The date the convertible information was added to the issue.
<b>conv_commod_issuer</b>	VARCHAR2(64)	The name of the issuer of the exchange commodity.
<b>agent_id</b>	NUMBER	A unique FTSE Russell -generated number to identify each agent.
<b>conv_price</b>	NUMBER(15,5)	Conversion price of the conversion commodity as of the AS_OF_DATE.
<b>qty_of_commod</b>	NUMBER(15,5)	The quantity of the conversion commodity that the bondholder will receive upon conversion as of the AS_OF_DATE.
<b>commod_price</b>	NUMBER(15,5)	Market price of the conversion commodity as of the AS_OF_DATE.
<b>conv_premium</b>	NUMBER(15,5)	The percentage difference between the conversion price and the market price of the conversion commodity as of the AS_OF_DATE.
<b>shares_outstanding</b>	NUMBER(15,5)	The total number of securities/shares of the conversion commodity outstanding as of the AS_OF_DATE.
<b>percent_of_outstanding_commod</b>	NUMBER(15,5)	The percentage of the total conversion commodity available through conversion of the issue as of the AS_OF_DATE.
<b>split_date</b>	DATE	The date of the last known conversion commodity split.
<b>split_ratio</b>	VARCHAR2(10)	The ratio to which the conversion commodity was split.

## CONVERTIBLE\_ISSUER\_HISTORY

The table, CONVERTIBLE\_ISSUER\_HISTORY, provides a historical record of the changes made to conversion commodity issuer information in the convertible table. Historical data has been stored in the CONVERTIBLE\_ISSUER\_HISTORY table since September 2001.

FIELD NAME	FORMAT	DESCRIPTION
<b>issue_id</b>	NUMBER	A FTSE Russell -generated number unique to each issue used to link each issue's data among the data feed tables.
<b>as_of_date</b>	DATE	The date the convertible information was added to the issue.
<b>conv_commod_issuer</b>	VARCHAR2(64)	The name of the issuer of the exchange commodity.
<b>agent_id</b>	NUMBER	A unique FTSE Russell -generated number to identify each agent.
<b>conv_commod_type</b>	VARCHAR2(4)	A four-letter code indicating what the conversion commodity is (e.g., common stock, preferred stock, copper, gold bullion, etc.).
<b>exchange</b>	VARCHAR2(4)	A four-letter code indicating the conversion commodity's principal securities exchange.
<b>conv_commod_cusip</b>	VARCHAR2(9)	The CUSIP of the conversion commodity.
<b>ticker</b>	VARCHAR2(6)	The ticker of the conversion commodity.
<b>reason</b>	VARCHAR2(6)	The reason for the change of the convertible information.
<b>dilution_protection</b>	VARCHAR2(1)	A flag indicating whether or not the quantity of commodity will be adjusted for stock splits, dividends, distributions, or other specified events.
<b>conv_eff_date</b>	DATE	First date on which issue may be converted. It is the settlement date, if not specified.
<b>conv_exp_date</b>	DATE	Date on which conversion privilege expires. It is the day prior to the issue's maturity if no date is given.
<b>conv_cash</b>	NUMBER(15,5)	Additional cash payable by bondholder to effect conversion.

## CONVERTIBLE\_SOFT\_CALL\_SCHED

The table, CONVERTIBLE\_SOFT\_CALL\_SCHED, lists the complete soft call schedule (dates and percentages) for each issue containing such a provision in the data feed.

FIELD NAME	FORMAT	DESCRIPTION
<b>prior_to_date</b>	DATE	End date of the applicable commodity_selling_percent.
<b>issue_id</b>	NUMBER	A FTSE Russell -generated number unique to each issue used to link each issue's data among the data feed tables.
<b>commodity_selling_percent</b>	NUMBER(9,4)	Price, expressed as percent of the applicable conversion_price, when the security may be called, for the period beginning at the from_date and ending on the prior_to_date.
<b>from_date</b>	DATE	Effective date for the applicable commodity_selling_percent.

## COUPON\_FORMULAINDEX

The table, COUPON\_FORMULAINDEX, contains the formula(s) (expressed as algebraic strings) used to calculate the interest rate in effect for floating rate securities during a given interest rate period. For those issues with coupon formulas which do not fit into this structure, the associated footnote (found in the table NOTES (page 31)) contains the coupon formula. Note that an issue may have more than one record in the table COUPON\_FORMULA\_INDEX.

FIELD NAME	FORMAT	DESCRIPTION
<b>line_id</b>	NUMBER	Allows for an issue to have more than one record in this table.
<b>issue_id</b>	NUMBER	A FTSE Russell -generated number unique to each issue used to link each issue's data among the data feed tables.
<b>effective_date</b>	DATE	Date as of which the issue begins to accrue interest at the rate set forth in the FORMULA field (adjusted for MINIMUM and MAXIMUM if applicable).
<b>valid_until_date</b>	DATE	Date as of which the interest rate set forth in the FORMULA field ceases to be in effect. If blank, the issue's interest rate formula does not change for the remainder of the issue's life.
<b>formula</b>	VARCHAR2(500)	Annualized interest rate for the issue, expressed as a decimal based algebraic formula (e.g. LIBOR_ONE_MONTH + .03125).
<b>minimum</b>	NUMBER(20,5)	Interest rate floor, in decimal format.
<b>maximum</b>	NUMBER(20,5)	Interest rate ceiling, in decimal format.

## COUPON\_INFO

The table, COUPON\_INFO, lists the initial interest rate and interest payment frequency for all issues in the data feed. The interest rate payment schedule for variable rate securities (those with a fixed schedule of changing interest rate payments) is found in the table CHANGE\_SCHEDULE (page 11). The interest rate calculation formula for floating rate notes is found in the CHANGE\_FORMULA (page 10) and COUPON\_FORMULAINDEX (page 17) tables and associated footnotes.

FIELD NAME	FORMAT	DESCRIPTION
<b>issue_id</b>	NUMBER	A FTSE Russell -generated number unique to each issue used to link each issue's data among the data feed tables.
<b>dated_date</b>	DATE	Date from which interest accrues or from which original issue discount is amortized.
<b>first_interest_date</b>	DATE	Date on which first interest payment will be made to the bondholder.
<b>interest_frequency</b>	VARCHAR2(4)	Code indicating how often interest payments will be made.
<b>coupon</b>	NUMBER(7,5)	The current applicable annual interest rate that the bond's issuer is obligated to pay the bondholders.
<b>pay_in_kind</b>	VARCHAR2(1)	Flag indicating that the interest on the issue may be paid in more of the same security, or in some cases, in other securities.
<b>pay_in_kind_exp_date</b>	DATE	Expiration date of the pay_in_kind option (i.e., interest payments may be made in other than cash prior to this date).
<b>coupon_change_indicator</b>	VARCHAR2(4)	Indicates the issue's coupon type, if not fixed.
<b>day_count_basis</b>	VARCHAR2(10)	Basis used for determining the interest paid during each interest period (e.g., 30/360, ACT/360, etc.).
<b>last_interest_date</b>	DATE	Date on which last interest payment (prior to maturity) will be made to the bondholder.
<b>next_interest_date</b>	DATE	<b>RESERVED FOR FUTURE USE.</b> Date on which the next interest payment will be made to the bondholder.

## CUSIP\_CHANGE\_HIST

The table, CUSIP\_CHANGE\_HIST, contains a history of issue level CUSIP changes. **THIS TABLE IS RESERVED FOR FUTURE USE.**

FIELD NAME	FORMAT	DESCRIPTION
<b>change_date</b>	DATE	The date on which the issue's CUSIP was changed to a different CUSIP.
<b>issue_id</b>	NUMBER	A FTSE Russell -generated number unique to each issue used to link each issue's data among the data feed tables.
<b>old_issue_cusip</b>	VARCHAR2(3)	The issue's prior CUSIP before it was changed.
<b>reason</b>	VARCHAR2(4)	A code indicating why the issue's CUSIP was changed.

## EXCHANGE\_LISTING

The table, EXCHANGE\_LISTING, lists the principal stock exchange and equity ticker symbol for the issuer of the security.

FIELD NAME	FORMAT	DESCRIPTION
<b>exchange</b>	VARCHAR2(4)	Code for the exchange on which the issuer's common stock is listed.
<b>issuer_id</b>	NUMBER	A FTSE Russell -generated number unique to each issuer used to link each issuer's data among the data feed tables.
<b>ticker</b>	VARCHAR2(6)	Equity ticker symbol for the issuer.

## FOREIGN\_CURRENCY

The table, FOREIGN\_CURRENCY, lists the issuing currency, par amount and exchange rate as of the issuance date for non- US dollar denominated securities in the data feed.

FIELD NAME	FORMAT	DESCRIPTION
<b>currency</b>	VARCHAR2(4)	Currency of denomination.
<b>issue_id</b>	NUMBER	A FTSE Russell -generated number unique to each issue used to link each issue's data among the data feed tables.
<b>amt_offered</b>	NUMBER(20,5)	Issue's par amount in the currency of denomination.
<b>conversion_rate</b>	NUMBER(20,5)	Conversion rate into US dollars as of the date of issuance for the currency of denomination.

## IPO\_CLAWBACK

The table, IPO\_CLAWBACK, lists the provisions applicable if the issuer has the right to call the issue with the proceeds of an initial or subsequent stock offering.

FIELD NAME	FORMAT	DESCRIPTION
<b>issue_id</b>	NUMBER	A FTSE Russell -generated number unique to each issue used to link each issue's data among the data feed tables.
<b>callable_until</b>	DATE	Last date on which the issuer could call the issue using the IPO clawback provisions.
<b>callable_at</b>	NUMBER(15,5)	Price, expressed as a percentage of par, at which issue may be called if funds used come from the initial or secondary public equity offering.
<b>percentage</b>	NUMBER(20,5)	Percentage of issue which could be called under IPO clawback provisions.

## ISSUE

The table, ISSUE, lists basic characteristics of each issue in the data feed, such as maturity, description of the issue (e.g., Canadian, SLOB, global offering) and initial offering terms.

FIELD NAME	FORMAT	DESCRIPTION
<b>issue_id</b>	NUMBER	A FTSE Russell -generated number unique to each issue used to link each issue's data among the data feed tables.
<b>issuer_id</b>	NUMBER	A FTSE Russell -generated number unique to each issuer used to link each issuer's data among the data feed tables.
<b>prospectus_issuer_name</b>	VARCHAR2(64)	The name of the issuer as in the prospectus.
<b>issuer_cusip</b>	VARCHAR2(6)	The unique six digit alphanumeric code assigned to the issuer by the Committee on Uniform Securities Identification Procedures.
<b>issue_cusip</b>	VARCHAR2(3)	The seventh through ninth digits of the unique nine-digit alphanumeric code assigned to each issue by the Committee on Uniform Securities Identification Procedures. The first six characters of CUSIP specify the issuer: characters seven and eight specify the issue, and the ninth digit is the check digit. If an issue has not yet been assigned a CUSIP, FTSE Russell creates an estimated CUSIP for temporary use using one of the following symbols: @ ? \$ ! & #.
<b>issue_name</b>	VARCHAR2(64)	Issue type description as taken from the prospectus.
<b>maturity</b>	DATE	Date that the issue's principal is due for repayment.
<b>security_level</b>	VARCHAR2(4)	Indicates if the security is a secured, senior or subordinated issue of the issuer.
<b>security_pledge</b>	VARCHAR2(4)	A flag indicating that certain assets have been pledged as security for the issue.
<b>enhancement</b>	VARCHAR2(1)	Flag indicating that the issue has credit enhancements (e.g., guarantees, letter of credit, etc.).
<b>coupon_type</b>	VARCHAR2(4)	The coupon type for the issue.



FIELD NAME	FORMAT	DESCRIPTION
<b>convertible</b>	VARCHAR2(1)	Flag indicating the issue can be converted to the common stock (or other security) of the issuer. Further information can be found in the CONVERTIBLE table.
<b>mtn</b>	VARCHAR2(1)	A flag denoting that the issue is a medium term note.
<b>asset_backed</b>	VARCHAR2(1)	Flag indicating that the issue is an asset backed issue that is collateralized by a portfolio of loans or assets other than single family mortgages.
<b>yankee</b>	VARCHAR2(1)	A flag indicating that the issue has been issued by a foreign issuer, but has been registered with the SEC and is payable in dollars.
<b>canadian</b>	VARCHAR2(1)	Flag indicating that the issuer is a Canadian entity issuing the bond in US dollars.
<b>oid</b>	VARCHAR2(1)	Original issue discount flag. Original issue discount issues are initially offered at less than par value.
<b>foreign_currency</b>	VARCHAR2(1)	Flag indicating that the issue is denominated in a foreign currency.
<b>slob</b>	VARCHAR2(1)	A flag denoting that the issue is a secured lease obligation issue (i.e., an issue secured by one or more leases issued in a sales leaseback transaction by an electric utility).
<b>issue_offered_global</b>	VARCHAR2(1)	A flag denoting that the issue is offered globally (i.e., the issue is being offered simultaneously in more than one country).
<b>settlement_type</b>	VARCHAR2(4)	A code indicating whether the issue will settled in same-day or next-day funds.
<b>gross_spread</b>	NUMBER(15,5)	The difference between the price that the issuer receives for its securities and the price that investors pay for them. This spread equals the selling concession plus the underwriting and management fees.
<b>selling_concession</b>	NUMBER(15,5)	The portion of the gross spread paid to other securities dealers in the offering syndicate for reselling the issue for the underwriter.
<b>reallowance</b>	NUMBER(15,5)	The portion of the selling concession that an underwriter foregoes if the issue is sold to another securities firm which is not a member of the underwriting syndicate.
<b>comp_neg_exch_deal</b>	VARCHAR2(4)	Code indicating the type of issue sale (e.g., competitive, negotiated or exchange offering).
<b>rule_415_reg</b>	VARCHAR2(1)	A flag indicating whether the issue is an SEC Rule 415 shelf registration. SEC Rule 415 allows issuers to pre-register an amount of securities for up to two years. On short notice, the issuer may take securities off of the shelf and offer them to the public. At the time of the actual sale of securities, the issuer may have to issue a new prospectus or supplement.
<b>sec_reg_type1</b>	VARCHAR2(4)	A code field containing the SEC registration type.
<b>sec_reg_type2</b>	VARCHAR2(4)	An additional SEC registration type, when applicable.
<b>rule_144a</b>	VARCHAR2(1)	A flag denoting that the issue is a private placement exempt from registration under SEC Rule 144a. Rule 144a issues are generally offered to a limited number of institutional investors, known as QIB's (Qualified Institutional Buyers).
<b>treasury_spread</b>	NUMBER(20,5)	The difference between the yield of the benchmark treasury issue and the issue's offering yield expressed in basis points.
<b>treasury_maturity</b>	VARCHAR2(20)	Maturity of benchmark Treasury issue against which the issue's offering yield was measured.
<b>offering_amt</b>	NUMBER(20,5)	The par value of debt initially issued.
<b>offering_date</b>	DATE	The date the issue was originally offered.
<b>offering_price</b>	NUMBER(15,5)	The price as a percentage of par at which the issue was originally sold to investors.
<b>offering_yield</b>	NUMBER(15,5)	Yield to maturity at the time of issuance, based on the coupon and any discount or premium to par value at the time of sale. Offering_yield is calculated only for fixed rate issues.

FIELD NAME	FORMAT	DESCRIPTION
<b>delivery_date</b>	DATE	The date the issue was or will be initially delivered by the issuer of the security.
<b>unit_deal</b>	VARCHAR2(1)	A flag indicating whether the issue is part of a unit deal. In a unit deal, the bond is sold as part of a package of securities. The Warrant table will have more information on the other securities in the package.
<b>form_of_own</b>	VARCHAR2(4)	Code indicating form of ownership. It can be book entry (bondholder is registered in computerized records in the name of a securities depository, the members of which, keep records of the securities they own or hold for their customers), registered (bondholder is registered with the trustee or issuer) and coupon or bearer (bondholder is not registered with the trustee or issuer: rather, coupon payments are made to holder of the security).
<b>denomination</b>	VARCHAR2(9)	The multiples or minimum of principal amount in which the bond can be purchased.
<b>principal_amt</b>	NUMBER(20,5)	The face or par value of a single bond (i.e., the sum that is to be paid at maturity, usually \$1000).
<b>covenants</b>	VARCHAR2(1)	Flag indicating that the issue's covenants are recorded in the COVENANTS table.
<b>defeased</b>	VARCHAR2(1)	Flag indicating that the issue has been defeased.
<b>defeasance_type</b>	VARCHAR2(4)	A code indicating the type of defeasance allowed (e.g., covenants or legal). Covenant defeasance removes the restrictions of indenture covenants, but leaves the issuer liable for the remaining debt. Legal defeasance removes the issue from the issuer's balance sheet but leaves the issuer liable for any covenants specified in the indenture.
<b>defeased_date</b>	DATE	The date on which the issue was defeased.
<b>defaulted</b>	VARCHAR2(1)	Flag indicating that the issuer is in default of the terms of this issue. Further information on the issue can be obtained from the ISSUE_DEFAULT table.
<b>tender_exch_offer</b>	VARCHAR2(1)	A flag denoting that at least one tender or exchange offer has been made (or is currently outstanding) for the issue. In a tender offer, bondholders are invited to tender their securities for cash. In an exchange offer, bondholders are invited to exchange their securities for another security.
<b>redeemable</b>	VARCHAR2(1)	A flag indicating that the bond is redeemable under certain circumstances.
<b>refund_protection</b>	VARCHAR2(1)	A flag denoting that the issuer is restricted from refunding this issue. An issue is refunded when the issuer redeems the issue from proceeds of a second bond issue.
<b>refunding_date</b>	DATE	The first date on which the issuer may refund the issue. An issue is refunded when the issuer redeems the issue from proceeds of a subsequent stock or bond issue.
<b>putable</b>	VARCHAR2(1)	Put option flag. A put option provides the bondholder with the option, but not the obligation, to sell the security back to the issuer at a specified price and time, under certain circumstances.
<b>overallotment_opt</b>	VARCHAR2(1)	Overallotment option flag. An underwriter may receive the option of offering an additional amount of the securities (typically 15% of the offering amount) for subsequent sale.
<b>announced_call</b>	VARCHAR2(1)	Indicates that the issuer has announced a call for this issue.
<b>active_issue</b>	VARCHAR2(1)	Flag indicating whether all or a portion of this issue remains outstanding. A value of "Y" indicates the issue currently has an amount outstanding greater than zero. A value of "N" indicates the issue currently has an amount outstanding of zero (i.e. the issue has been retired in full).
<b>dep_eligibility</b>	VARCHAR2(4)	Code indicating the depositories on which the offered bonds are eligible for trading (e.g., DTC, Euroclear, Cedel, etc.).
<b>private_placement</b>	VARCHAR2(1)	Flag indicating that the issue is only being offered privately to selected individuals and institutions and not to the general public.

FIELD NAME	FORMAT	DESCRIPTION
<b>bond_type</b>	VARCHAR2(4)	A code denoting the type of issue (e.g. US Agency Debenture, US Corporate MTN, etc.).
<b>subsequent_data</b>	VARCHAR2(1)	Flag indicating whether this issue has proceeded beyond the "initial input" phase. If flag is "Y", this issue contains subsequent data from a prospectus, pricing supplement, or other more detailed document or source.
<b>press_release</b>	VARCHAR2(1)	Flag indicating whether this issue contains a press release in the footnotes relating to a Fitch rating action. If flag is "Y", check footnotes for the press release.
<b>isin</b>	VARCHAR2(12)	The International Securities Identification Number associated with this issue.
<b>perpetual</b>	VARCHAR2(1)	Flag denoting an issue has no set maturity date.
<b>sedol</b>	VARCHAR2(7)	A unique seven character number assigned to securities by the Stock Exchange Daily Official List.
<b>exchangeable</b>	VARCHAR2(1)	Flag indicating the issue can be converted to the common stock (or other security) of a subsidiary or affiliate of the issuer.
<b>fungible</b>	VARCHAR2(1)	Flag denoting securities that are, by virtue of their terms, equivalent, interchangeable or substitutable. Fungible issues may be "reopened" in the future, on one or more occasions, increasing the total amount outstanding of the issue.
<b>registration_rights</b>	VARCHAR2(1)	Indicates the issue contains a registration rights agreement whereby the issuer agrees to file a registration statement (or an exchange offer registration statement) within a specified period.
<b>preferred_security</b>	VARCHAR2(1)	Flag indicating this issue is a preferred security (e.g. MIPS, PIES, TOPRS, Preferred Stock, etc.).
<b>principal_protected</b>	VARCHAR2(1)	Flag indicating whether this issue is a principal protected note.
<b>principal_protected_percentage</b>	NUMBER(15,5)	Percentage of the principal protected note that is guaranteed.

## ISSUE\_AFFECTED

The table, ISSUE\_AFFECTED, indicates whether a particular issue was affected by an issuer's bankruptcy filing, as well as the date on which the bankruptcy was filed and the settlement date of the bankruptcy. Further information on the issue's bankruptcy can be found in the table, BANKRUPTCY (page 8).

FIELD NAME	FORMAT	DESCRIPTION
<b>issuer_id</b>	NUMBER	A FTSE Russell -generated number unique to each issuer used to link each issuer's data among the data feed tables.
<b>filing_date</b>	DATE	Bankruptcy filing date.
<b>issue_id</b>	NUMBER	A FTSE Russell -generated number unique to each issue used to link each issue's data among the data feed tables.
<b>settlement</b>	VARCHAR2(64)	A brief description of the final reorganization plan.

## ISSUE\_AGENTS

The Table, ISSUE\_AGENTS, lists those entities which have a relationship to the issue, such as issue trustee, underwriter, exchange agent, etc.

FIELD NAME	FORMAT	DESCRIPTION
<b>issue_id</b>	NUMBER	A FTSE Russell -generated number unique to each issue used to link each issue's data among the data feed tables.
<b>agent_id</b>	NUMBER	A unique FTSE Russell -generated number to identify each agent.
<b>agent_type</b>	VARCHAR2(4)	A code denoting the relationship the agent has with the issue, such as trustee underwriter, exchange agent etc.

## ISSUE\_DEFAULT

The table, ISSUE\_DEFAULT, provides the reason for the bankruptcy filing. For issues in default, this table also indicates if the issue was reinstated after bankruptcy.

FIELD NAME	FORMAT	DESCRIPTION
<b>default_date</b>	DATE	The first date on which the issuer was in default, either due to technical default or missed interest or principal payment.
<b>issue_id</b>	NUMBER	A FTSE Russell -generated number unique to each issue used to link each issue's data among the data feed tables.
<b>default_type</b>	VARCHAR2(4)	Code indicating the type of default. Codes include: Bankruptcy, Interest, Covenant and Principal.
<b>reinstated</b>	VARCHAR2(1)	A flag indicating whether the issue was reinstated and consequently is no longer in default.
<b>reinstated_date</b>	DATE	The date on which the issue was reinstated.
<b>note</b>	VARCHAR2(256)	A short note about the default.

## ISSUE\_ENHANCEMENT

The table, ISSUE\_ENHANCEMENT, provides information on any credit enhancement for the issue (e.g., letter of credit, parent company guarantee, etc.).

FIELD NAME	FORMAT	DESCRIPTION
<b>agent_id</b>	NUMBER	A unique FTSE Russell -generated number to identify each agent.
<b>enh_type</b>	VARCHAR2(4)	The type of financial enhancement. Possible codes are: Insurance, Guarantee and Letter of Credit.
<b>issue_id</b>	NUMBER	A FTSE Russell -generated number unique to each issue used to link each issue's data among the data feed tables.
<b>eff_date</b>	DATE	Date on which the issue enhancement becomes effective.
<b>enh_amount</b>	NUMBER(20,5)	The amount of the enhancement, if applicable.
<b>exp_date</b>	DATE	Date on which the form of enhancement has or will expired, if not renewed.
<b>min_rating_level</b>	VARCHAR2(4)	The minimum rating required of the provider of the issue enhancement is order to maintain the rating of the bonds.
<b>has_guarantees</b>	VARCHAR2(1)	Flag indicating whether the issue has guarantees as to payment of principal, premium (if any) and interest.

## ISSUE\_EXCHANGE

The table, ISSUE\_EXCHANGE, lists the exchange(s) (if any) on which the bonds will be listed.

FIELD NAME	FORMAT	DESCRIPTION
<b>issue_id</b>	NUMBER	A FTSE Russell -generated number unique to each issue used to link each issue's data among the data feed tables.
<b>exchange</b>	VARCHAR2(4)	A code denoting the exchange on which the bonds will be listed.

## ISSUER

The table, ISSUER, contains information on the issuer's industry, current financial status and corporate parent.

FIELD NAME	FORMAT	DESCRIPTION
<b>issuer_id</b>	NUMBER	A FTSE Russell -generated number unique to each issuer used to link each issuer's data among the data feed tables.
<b>agent_id</b>	NUMBER	A unique FTSE Russell -generated number to identify each agent.
<b>cusip_name</b>	VARCHAR2(64)	The issuer's name as it appears in the records of the Committee on Uniform Securities Identification Procedures.
<b>industry_group</b>	VARCHAR2(4)	A code indicating the industry group to which the issuer belongs. Possible codes are: 1 - Industrial 2 - Finance 3 - Utility 4 - Government 5 - Miscellaneous
<b>industry_code</b>	VARCHAR2(4)	A code indicating the industry to which the issuer belongs. Possible codes are: <u>Industrial</u> 10 - Manufacturing 11 - Media/Communications 12 - Oil & Gas 13 - Railroad 14 - Retail 15 - Service/Leisure 16 - Transportation 32 - Telephone <u>Finance</u> 20 - Banking 21 - Credit/Financing 22 - Financial Services 23 - Insurance 24 - Real Estate 25 - Savings & Loan 26 - Leasing <u>Utility</u> 30 - Electric 31 - Gas 33 - Water <u>Government</u> 40 - Foreign Agencies 41 - Foreign 42 - Supranationals 43 - US Treasuries 44 - US Agencies 45 - Taxable Municipal <u>Miscellaneous</u> 60 - Miscellaneous 99 - Unassigned
<b>esop</b>	VARCHAR2(1)	A flag denoting that the issue will be repaid by pension contributions to an employees' stock ownership plan (ESOP). An ESOP is a method of employees purchasing stock in the firm for which they work.
<b>in_bankruptcy</b>	VARCHAR2(1)	A flag denoting that the issuer is currently in bankruptcy.
<b>parent_id</b>	NUMBER	A number representing the agent_id of this issuer's parent company.
<b>naics_code</b>	VARCHAR2(6)	The North American Industry Classification System code used to describe the business of this issuer.
<b>country_domicile</b>	VARCHAR2(4)	The Country of Domicile or country of permanent residence of this issuer.

## ISSUER\_CUSIP

The table, ISSUER\_CUSIP, contains the CUSIP assigned to this issuer by the Committee on Uniform Securities Identification Procedures. CUSIP is a unique nine-digit alphanumeric code assigned to each issue by this committee. The first six characters of CUSIP specify the issuer, characters seven and eight specify the issue, and the ninth character is the check digit.

FIELD NAME	FORMAT	DESCRIPTION
<b>issuer_cusip</b>	VARCHAR2(6)	The 6 digit number assigned to the issuer by the CUSIP bureau.
<b>issuer_id</b>	NUMBER	A FTSE Russell -generated number unique to each issuer used to link each issuer's data among the data feed tables.

## ISSUER\_CUSIP\_HIST

The table, ISSUER\_CUSIP\_HIST, is a record of any changes in the issuer's six digit CUSIP as it was entered into the data feed. CUSIP is a unique nine-digit alphanumeric code assigned to each issue by the Committee on Uniform Securities Identification Procedures. The first six characters of CUSIP specify the issuer. **THIS TABLE IS RESERVED FOR FUTURE USE.**

FIELD NAME	FORMAT	DESCRIPTION
<b>old_cusip</b>	VARCHAR2(6)	The old issuer CUSIP prior to being changed.
<b>issuer_id</b>	NUMBER	A FTSE Russell-generated number unique to each issuer used to link each issuer's data among the data feed tables.
<b>change_date</b>	DATE	The date on which the issuer's CUSIP was changed in the data feed.
<b>new_cusip</b>	VARCHAR2(6)	The new issuer CUSIP.
<b>reason</b>	VARCHAR2(4)	A code indicating the reason the issuer's CUSIP was changed.

## ISSUER\_RESTRICTIVE

The table, ISSUER\_RESTRICTIVE, contains several covenants that would restrict the ability of the issuer to take part in a transaction that may be detrimental to bondholders (e.g., restrictions on mergers, funded debt or dividend payments). In the data feed, the covenants are coded with either a "Y", indicating that the covenant is present in the issue's prospectus or "N", indicating that it is not present in the issue's prospectus.

FIELD NAME	FORMAT	DESCRIPTION
<b>issue_id</b>	NUMBER	A FTSE Russell-generated number unique to each issue used to link each issue's data among the data feed tables.
<b>consolidation_merger</b>	VARCHAR2(1)	Indicates that a consolidation or merger of the issuer with another entity is restricted.
<b>dividends_related_payments</b>	VARCHAR2(1)	Flag indicating that payments made to shareholders or other entities may be limited to a certain percentage of net income or some other ratio.
<b>funded_debt</b>	VARCHAR2(1)	Restricts issuer from issuing additional funded debt. Funded debt is any debt with an initial maturity of one year or longer.
<b>indebtedness</b>	VARCHAR2(1)	Restricts user from incurring additional debt with limits on absolute dollar amount of debt outstanding or percentage total capital.
<b>investments</b>	VARCHAR2(1)	Restricts issuer's investment policy to prevent risky investments.
<b>liens</b>	VARCHAR2(1)	In the case of default, the bondholders have the legal right to sell mortgaged property to satisfy their unpaid obligations.
<b>maintenance_net_worth</b>	VARCHAR2(1)	Issuer must maintain a minimum specified net worth.
<b>restricted_payments</b>	VARCHAR2(1)	Restricts issuer's freedom to make payments (other than dividend related payments) to shareholders and others.

FIELD NAME	FORMAT	DESCRIPTION
<b>sales_leaseback</b>	VARCHAR2(1)	Restricts issuer to the type or amount of property used in a sale leaseback transaction and may restrict its use of the proceeds of the sale. A sale leaseback transaction is a method of raising capital in which an organization sells some specific assets to an entity that simultaneously leases the asset back to the organization for a fixed term and agreed upon rate.
<b>sale_assets</b>	VARCHAR2(1)	Restrictions on the ability of an issuer to sell assets or restrictions on the issuer's use of the proceeds from the sale of assets. Such restrictions may require the issuer to apply some or all of the sales proceeds to the repurchase of debt through a tender offer or call.
<b>senior_debt_issuance</b>	VARCHAR2(1)	Restricts issuer to the amount of senior debt it may issue in the future.
<b>stock_issuance_issuer</b>	VARCHAR2(1)	Restricts issuer from issuing additional common stock.
<b>stock_transfer_sale_disp</b>	VARCHAR2(1)	Restricts the issuer from transferring, selling, or disposing of it's own common stock or the common stock of a subsidiary.
<b>subordinated_debt_issuance</b>	VARCHAR2(1)	Restricts issuance of junior or subordinated debt.
<b>transaction_affiliates</b>	VARCHAR2(1)	Issuer is restricted in certain business dealings with its subsidiaries.
<b>net_earnings_test_issuance</b>	VARCHAR2(1)	To issue additional debt the issuer must have achieved or maintained certain profitability levels. This test is a variations of the (more common) fixed coverage tests.
<b>fixed_charge_coverage</b>	VARCHAR2(1)	Issuer is required to have a ratio of earnings available for fixed charges, of at least a minimum specified level.
<b>leverage_test</b>	VARCHAR2(1)	Restricts total-indebtedness of the issuer.

## ISSUER\_SIC\_CODE

The table, ISSUER\_SIC\_CODE, lists the Standard Industry Classification code for the issuer. Many issuers will have more than one SIC code as the firm engages in more than one line of business.

FIELD NAME	FORMAT	DESCRIPTION
<b>issuer_id</b>	NUMBER	A FTSE Russell-generated number unique to each issuer used to link each issuer's data among the data feed tables.
<b>sic_code</b>	VARCHAR2(4)	The firm's two-digit Standard Industry Classification code.
<b>primary_sic</b>	VARCHAR2(1)	Flag indicating whether or not this is the firm's primary line of business.

## MAINT\_REPLACE

The table, MAINT\_REPLACE, lists the details of the issue's maintenance and replacement (M&R) fund requirements. An M&R fund is used to assure that mortgaged property is kept in good operating condition. Electric utility bond indentures usually require that a certain percentage of gross operating revenues, a percentage of the aggregate bonded indebtedness, or a percentage of the utility's property account be paid to the trustee for the M&R fund. A major portion of the M&R requirement is usually satisfied with normal maintenance expenditures. To the extent that there is an additional requirement, the company may contribute cash, the pledge of unbonded property additions, or bonds.

FIELD NAME	FORMAT	DESCRIPTION
<b>mr_date</b>	DATE	Date on which bonds may be called using money in the maintenance and replacement fund.
<b>issue_id</b>	NUMBER	A FTSE Russell-generated number unique to each issue used to link each issue's data among the data feed tables.
<b>mr_price</b>	NUMBER(15,5)	The price at which bonds may be called where funded by moneys in the maintenance and replacement fund.

## NAME\_CHANGE\_HIST

The table, NAME\_CHANGE\_HIST, provides details of historical name changes for each issuer in the data feed.  
*THIS TABLE IS RESERVED FOR FUTURE USE.*

FIELD NAME	FORMAT	DESCRIPTION
<b>change_date</b>	DATE	The date on which the issuer's name change was entered into the data feed.
<b>issuer_id</b>	NUMBER	A FTSE Russell-generated number unique to each issuer used to link each issuer's data among the data feed tables.
<b>old_name</b>	VARCHAR2(64)	The name of the issuer, as it appeared in the CUSIP files, before it changed.
<b>reason</b>	VARCHAR2(4)	The reason for the change in the issuer's name or CUSIP number.

## NOTES

The table, NOTES, contains the text footnote (if any) associated with the agent or issue. FTSE Russell has placed text footnotes in the data feed to capture important information not easily captured in other data feed fields. For example, special call provisions, unusual coupon formulas or non-standard sinking fund schedules may appear in this table.

FIELD NAME	FORMAT	DESCRIPTION
<b>issue_id</b>	NUMBER	A FTSE Russell-generated number unique to each issue used to link each issue's data among the data feed tables.
<b>note_id</b>	NUMBER	A FTSE Russell-generated number unique to each note.
<b>note_type</b>	VARCHAR2(4)	A code indicating the type of note (i.e., sinking fund schedule, call schedule or coupon formula).
<b>note</b>	VARCHAR2(2000)	The text portion of the note.

## OTHER\_SECURITY

The table, OTHER\_SECURITY, provides issuance details on a security (other than a warrant) issued with the debt issue as part of a unit offering. Unit offerings consist of two or more securities initially sold as a package. If the two securities are allowed to trade separately, the table OTHER\_SECURITY provides more information on any security which is not debt or a warrant. All unit offerings listed in the Corporate Bond Securities Data Feed consist of a debt security together with a warrant or other security.

FIELD NAME	FORMAT	DESCRIPTION
<b>other_sec_type</b>	VARCHAR2(4)	A four-character code indicating the type of the other security.
<b>issue_id</b>	NUMBER	A FTSE Russell-generated number unique to each issue used to link each issue's data among the data feed tables.
<b>other_sec_issuer</b>	VARCHAR2(64)	The name of the issuer of the other security.
<b>sec_cusip</b>	VARCHAR2(9)	The CUSIP of the other security offered as part of the unit.
<b>quantity</b>	NUMBER(20,5)	The quantity of other security offered with the unit.
<b>date_transferable</b>	DATE	The date on which each security offered as part of the unit may be sold separately.
<b>date_subj_adjustment</b>	VARCHAR2(1)	A flag indicating that the date on which the unit is free to trade as separate security is subject to adjustment.
<b>market_price</b>	NUMBER(15,5)	The market price of the unit's other security as of the issue's offering date.
<b>allocated_offering_price</b>	NUMBER(15,5)	Portion of the unit price allocated to the non-debt, non-warrant security in the unit.



## OVERALLOTMENT

The table, OVERALLOTMENT, provides details on the underwriter's overallotment option (if applicable). When an issue is sold, underwriters often have the option of selling additional securities to investors (typically 15% of the initial offering amount).

FIELD NAME	FORMAT	DESCRIPTION
<b>issue_id</b>	NUMBER	A FTSE Russell-generated number unique to each issue used to link each issue's data among the data feed tables.
<b>overallotment_expiration_date</b>	DATE	The last date for the issue's underwriters to exercise their overallotment option.
<b>exercised</b>	VARCHAR2(1)	A flag indicating that the issue's underwriters exercised their overallotment option.
<b>exercised_date</b>	DATE	The date on which the issue's underwriters exercised the overallotment option.
<b>amount</b>	NUMBER(20,5)	The amount of the underwriter's overallotment option.

## POISON\_PUT\_SCHED

The table, POISON\_PUT\_SCHED, details if an issue has a poison put. A poison put allows a bondholder to sell the issue back to the issuer at a preset price under certain circumstances. The poison put is designed to provide bond holders with an opportunity to sell the security back to the issuer should the credit quality of the issuer, or interest rates, change adversely.

FIELD NAME	FORMAT	DESCRIPTION
<b>pp_price</b>	NUMBER(15,5)	The price the issuer will pay if bondholders exercise their put option.
<b>issue_id</b>	NUMBER	A FTSE Russell-generated number unique to each issue used to link each issue's data among the data feed tables.
<b>pp_date1</b>	DATE	The first date on which the bondholders can exercise the poison put.
<b>pp_exp_date</b>	DATE	The expiration date on the poison put.

## PUT

The table, PUT, lists the notification period for any put options embedded in the security.

FIELD NAME	FORMAT	DESCRIPTION
<b>issue_id</b>	NUMBER	A FTSE Russell-generated number unique to each issue used to link each issue's data among the data feed tables.
<b>notification_period</b>	VARCHAR2(32)	A text field containing the information about the put notification period.
<b>next_put_date</b>	DATE	The next date upon which a bondholder can put back his bond.
<b>next_put_price</b>	NUMBER(15,5)	The price the issuer will pay the bondholder who exercises the put option on the next put date.

## PUT\_SCHEDULE

The table, PUT\_SCHEDULE, contains the put schedule for each issue (if applicable). A put allows an investor to resell the security back to the issuer for a specified price on a specified date. An issue may have more than one record in the PUT\_SCHEDULE table.

FIELD NAME	FORMAT	DESCRIPTION
<b>put_date</b>	DATE	The date upon which a bondholder can put back his bond.
<b>issue_id</b>	NUMBER	A FTSE Russell -generated number unique to each issue used to link each issue's data among the data feed tables.
<b>put_price</b>	NUMBER(15,5)	The price the issuer will pay the bondholder who exercises the put on the given date.

## RATING

The table, RATING, lists the Standard & Poor's, Moody's and Fitch ratings (and rating history since April 1995) for each issue in the data feed.

FIELD NAME	FORMAT	DESCRIPTION
<b>issue_id</b>	NUMBER	A FTSE Russell -generated number unique to each issue used to link each issue's data among the data feed tables.
<b>rating_type</b>	VARCHAR2(4)	A code representing the type of rating (e.g., NSRO credit rating, Fitch CMO Market Risk rating, Fitch credit rating, etc.).
<b>rating_date</b>	DATE	The date the rating was assigned to the security.
<b>rating</b>	VARCHAR2(8)	The rating assigned to this specific issue (e.g., AAA, Aaa, BBB+, etc.).
<b>rating_status</b>	VARCHAR2(4)	A code representing the status of the rating (e.g. positive watch, negative watch, etc.).
<b>reason</b>	VARCHAR2(4)	The reason for a change in rating, a suspension or withdrawal.
<b>rating_status_date</b>	DATE	The date the rating_status was assigned to the security.
<b>investment_grade</b>	VARCHAR2(1)	Flag indicating whether this security is considered to be "investment grade" based upon the specified rating(s). A Null value will appear if the issue is not rated by any rating agency or is in default.

## RATING\_HIST

The table, RATING\_HIST, lists the Standard & Poor's, Moody's and Fitch ratings (and rating history since April 1995) for each issue in the data feed.

FIELD NAME	FORMAT	DESCRIPTION
<b>issue_id</b>	NUMBER	A FTSE Russell -generated number unique to each issue used to link each issue's data among the data feed tables.
<b>rating_type</b>	VARCHAR2(4)	A code representing the type of rating (e.g., NSRO credit rating, Fitch CMO Market Risk rating, Fitch credit rating, etc.).
<b>rating_date</b>	DATE	The date the rating was assigned to the security.
<b>rating</b>	VARCHAR2(8)	The rating assigned to this specific issue (e.g., AAA, Aaa, BBB+, etc.).
<b>rating_status</b>	VARCHAR2(4)	A code representing the status of the rating (if applicable).
<b>reason</b>	VARCHAR2(4)	The reason for a change in rating or a suspension or withdrawal.

## REDEMPTION

The table, REDEMPTION, indicates if the issuer can redeem the issue before maturity. Issuers redeem an issue early typically via a call, IPO clawback, maintenance & replacement call or sinking fund call.

FIELD NAME	FORMAT	DESCRIPTION
<b>issue_id</b>	NUMBER	A FTSE Russell -generated number unique to each issue used to link each issue's data among the data feed tables.
<b>callable</b>	VARCHAR2(1)	A flag indicating that the issue is callable. The issue's call schedule is in the table CALL_SCHEDULE.
<b>initial_call_data</b>	VARCHAR2(256)	The text description of the issue's call features.
<b>sinking_fund</b>	VARCHAR2(1)	A flag indicating that the issue has a sinking fund.
<b>sudden_death_par</b>	VARCHAR2(1)	A flag denoting that the issuer has the right to call the issue at par under certain conditions not specified by the normal call schedule. Sudden death calls are triggered when tax laws are changed (Yankee issues), an asset is sold (asset backed issue), or other extraordinary events occur.
<b>sudden_death_premium</b>	VARCHAR2(1)	A flag denoting the issuer has the right to call the issue at a premium under certain conditions not specified by the normal call schedule. Sudden death calls are triggered when tax laws are changed (Yankee issues), an asset is sold (asset backed issue), or other extraordinary events occur.
<b>maint_replac</b>	VARCHAR2(1)	Indicates that the bond may be called through the issue's maintenance and replacement fund provision (M&R call found in electric utility issues). An M&R fund is used to assure that mortgaged property is kept in good operating condition. Electric utility indentures usually require that a certain percentage of gross operating revenues, a percentage of the aggregate bonded indebtedness, or a percentage of the utility's property account be paid to the trustee for the M&R fund. A major portion of the M&R requirement is usually satisfied with normal maintenance expenditures. To the extent that there is an additional requirement, the company may contribute cash, the pledge of unbonded property additions, or bonds.
<b>ipo_clawback</b>	VARCHAR2(1)	A flag denoting that the issue has an IPO clawback provision. An IPO clawback provides the issuer with the right (but not the obligation) to purchase the issue back from the investor with proceeds from an initial or subsequent stock offering.
<b>discrete_call</b>	VARCHAR2(1)	A flag that indicates if the issue is only callable on specific date(s) (European call option). Unless otherwise indicated, a callable issue can be called at any time after the first call date (American call option).
<b>make_whole</b>	VARCHAR2(1)	A flag indicating that a premium could be paid if the bond were to be called for redemption.
<b>call_notice_days</b>	NUMBER(3)	Represents the number of days which the holder of a bond must be notified in advance of a redemption by the issuing company.
<b>call_in_whole</b>	VARCHAR2(1)	A flag indicating whether an issue is callable only as a whole but not in part.
<b>index_redemption</b>	VARCHAR2(1)	A flag indicating whether an issue is subject to an indexed principal redemption.
<b>call_frequency</b>	VARCHAR2(1)	A code denoting the frequency at which this issue may be called at the option of the company (e.g. Annual, Continuously, etc.).
<b>make_whole_start_date</b>	DATE	The date as of which a make whole call option (if applicable) is effective.
<b>make_whole_end_date</b>	DATE	The date on which a make whole call option (if applicable) will expire.
<b>make_whole_spread</b>	VARCHAR2(50)	If applicable, the spread above a comparable treasury issue that will have to be paid if the make whole call option is exercised or pertinent information regarding the make whole spread.
<b>next_call_date</b>	DATE	The next date on which a call for redemption by the issuer would become effective.
<b>next_call_price</b>	NUMBER(15,5)	The call price associated with the next_call_date. See call_schedule table for more information.

FIELD NAME	FORMAT	DESCRIPTION
<b>next_sf_date</b>	DATE	The next date on which a sinking fund payment will take place (unless skipped).
<b>next_sf_amount</b>	NUMBER(20,5)	The dollar amount of the issue (in \$000's) that will be redeemed on the next_sf_date (unless skipped).
<b>next_sf_price</b>	NUMBER(15,5)	The price (expressed as a percentage of par) that will be paid when the bonds are redeemed on the next_sf_date (unless skipped).
<b>next_sf_skip</b>	VARCHAR2(1)	A flag indicating that the sinking fund payment for the next_sf_date is going to be skipped.

## RELATED\_ISSUES

The table, RELATED\_ISSUES, contains information allowing the relating (or linking) of issues on the Corporate Bond Securities Data Feed by identifier only. By utilizing the FTSE Russell ISSUE\_ID and CUSIP numbers, along with codes identifying the relationship, issues can be connected in such a way that a list of issues related to the current issue can be retrieved.

FIELD NAME	FORMAT	DESCRIPTION
<b>issue_id</b>	NUMBER	A FTSE Russell -generated number unique to each issue used to link each issue's data among the data feed tables.
<b>row_id</b>	NUMBER	A FTSE Russell -generated number unique to each record.
<b>how_related</b>	VARCHAR2(4)	A code indicating how this issue is related to the specified RELATED issue.
<b>related_issue_id</b>	NUMBER	The ISSUE_ID of the corresponding security (if available).
<b>related_issuer_cusip</b>	VARCHAR2(6)	The ISSUER_CUSIP of the corresponding security.
<b>related_issue_cusip</b>	VARCHAR2(3)	The ISSUE_CUSIP of the corresponding security.
<b>date_effective</b>	DATE	The date as of which the relation is effective.

## SF\_SCHEDULE

The table, SF\_SCHEDULE, provides the schedule of sinking fund payments for each issue. A history of sinking fund payments (from 1995) is also recorded.

FIELD NAME	FORMAT	DESCRIPTION
<b>sf_date</b>	DATE	The date on which a sinking fund payment will take place (unless skipped).
<b>issue_id</b>	NUMBER	A FTSE Russell -generated number unique to each issue used to link each issue's data among the data feed tables.
<b>skip_payment</b>	VARCHAR2(1)	A flag indicating that the sinking fund payment for this date is going to be (or was) skipped.
<b>sf_amount</b>	NUMBER(20,5)	The dollar amount (in \$000's) of an issue that will be redeemed on the associated date (unless skipped).
<b>sf_price</b>	NUMBER(15,5)	The redemption price (expressed as a percentage of par) that will be paid when the bonds are redeemed on the associated date (unless skipped).

## SINKING\_FUND

The table, SINKING\_FUND, provides commentary on the acceleration option for the issue's sinking fund option (if applicable).

FIELD NAME	FORMAT	DESCRIPTION
<b>issue_id</b>	NUMBER	A FTSE Russell -generated number unique to each issue used to link each issue's data among the data feed tables.
<b>sf_accel_pct</b>	NUMBER(20,5)	A field indicating by how much (in percent) the issuer can increase a sinking fund payment.
<b>accel_opt_info</b>	VARCHAR2(256)	Provides commentary on the acceleration option associated with the issue's sinking fund.

## SUBS\_RESTRICTIVE

The table, SUBS\_RESTRICTIVE, provides a YES/NO check list of possible covenant restrictions placed upon the issuer's subsidiaries. If the covenant is present in the indenture, the variable is set to the value "Y". Otherwise, it is set to the value "N".

FIELD NAME	FORMAT	DESCRIPTION
<b>issue_id</b>	NUMBER	A FTSE Russell -generated number unique to each issue used to link each issue's data among the data feed tables.
<b>borrowing_restricted</b>	VARCHAR2(1)	Indicates subsidiaries are restricted from borrowing, except from parent.
<b>dividends_related_payments</b>	VARCHAR2(1)	Limits the subsidiaries' payment of dividends to a certain percentage of net income or some other ratio. For captive finance subsidiaries, this provision limits the amount of dividends which can be paid to the parent. This provision protects the debtholder against a parent from draining assets from its subsidiaries.
<b>funded_debt</b>	VARCHAR2(1)	Restricts issuer's subsidiaries from issuing additional funded debt (debt with an initial maturity of longer than one year).
<b>indebtedness</b>	VARCHAR2(1)	Restricts the total indebtedness of the subsidiaries.
<b>stock_issuance</b>	VARCHAR2(1)	Restricts issuer from issuing additional common stock in restricted subsidiaries. Restricted subsidiaries are those which are considered to be consolidated for financial test purposes.
<b>preferred_stock_issuance</b>	VARCHAR2(1)	Restricts subsidiaries' ability to issue preferred stock.
<b>investments_unrestricted_subs</b>	VARCHAR2(1)	Restricts subsidiaries' investments.
<b>sale_xfer_assets_unrestricted</b>	VARCHAR2(1)	Issuer must use proceeds from sale of subsidiaries' assets (either certain asset sales or all asset sales over some threshold) to reduce debt.
<b>subsidiary_redesignation</b>	VARCHAR2(1)	Indicates if restricted subsidiaries may be reclassified as an unrestricted subsidiaries. Restricted subsidiaries are those which are considered to be consolidated for financial test purposes.
<b>subsidiary_guarantee</b>	VARCHAR2(1)	Subsidiary is restricted from issuing guarantees for the payment of interest and/or principal of certain debt obligations.
<b>sales_leaseback</b>	VARCHAR2(1)	Restricts subsidiaries from selling then leasing back assets that provide security for the debtholder. This provision usually requires that assets or cash equal to the property sold and leased back be applied to the retirement of the debt in question or used to acquire another property to increase the debtholders' security.
<b>liens</b>	VARCHAR2(1)	Restricts subsidiaries from acquiring liens on their property.
<b>fixed_charge_coverage</b>	VARCHAR2(1)	Subsidiaries are required to maintain a minimum ratio of net income to fixed charges.
<b>leverage_test</b>	VARCHAR2(1)	Limits subsidiaries' leverage.

## TENDER\_EXCH

The table, TENDER\_EXCH, provides details on any current or historical tender or exchange offers for any issue in the data feed. **THIS TABLE IS RESERVED FOR FUTURE USE.**

FIELD NAME	FORMAT	DESCRIPTION
offer_date	DATE	The date the tender or exchange offer becomes effective.
offer_type	VARCHAR2(4)	A code indicating whether the offer is a tender or an exchange.
issue_id	NUMBER	A FTSE Russell -generated number unique to each issue used to link each issue's data among the data feed tables.
agent_type	VARCHAR2(4)	A code denoting the relationship the agent has with the issue, such as trustee underwriter, exchange agent etc.
agent_id	NUMBER	A unique FTSE Russell -generated number to identify each agent.
tendee	VARCHAR2(64)	The name of the company making the tender offer.
expiration_date	DATE	The last date on which the bondholder can tender or exchange his bonds taking into account any announced extensions.
extention_date	DATE	The last date bondholders can tender or exchange their bonds if the offer is extended, as provided in the offering prospectus.
offer_amt	NUMBER(20,5)	The amount of outstanding principal being tendered or exchanged.
amt_tendered_exch	NUMBER(20,5)	The total face value of the issue tendered or exchanged.
tender_price	NUMBER(15,5)	The price/spread that the issuer will pay for the bonds being tendered.
tender_premium	VARCHAR2(64)	The premium (if applicable) that the issuer will pay for the tendered securities in addition to the tender price.
spread_tender_commod	VARCHAR2(64)	The name of the commodity, usually a treasury issue, used as the basis for calculating the tender price. In a spread tender offer, the issuer offers debtholders a price that will guarantee them a yield a preset amount (the spread tender) above the yield of a specified security.
spread_tender_pts	NUMBER(20,5)	The number of basis points that the issuer will pay above the yield of spread tender commodity.
exch_commod_issuer	VARCHAR2(64)	The issuer of the commodity offered for exchange.
exch_commod_type	VARCHAR2(4)	A code denoting the type of commodity offered for exchange.
exch_commod_cusip	VARCHAR2(9)	The CUSIP of the commodity offered in exchange for the issue.
exch_commod_market_price	NUMBER(15,5)	The price, as indicated in the prospectus, of the commodity offered in exchange for the issue.

## TREASURY

The data feed table, TREASURY, lists characteristics of each issue such as the auction date, reopening information on bids, yields, prices, ratio's and the tail.

FIELD NAME	FORMAT	DESCRIPTION
auction_date	DATE	The date when the security was auctioned.
issue_id	NUMBER	A FTSE Russell -generated number unique to each issue's data among the data feed tables.
strips	VARCHAR2(1)	Separate trading of interest and principal of securities.
reopened	VARCHAR2(1)	An additional issue of a note or bond rather than offering a new issue.
bad_end_date	VARCHAR2(1)	Occurs when the maturity date falls on a non-business day.
total_bids_received	NUMBER(20,5)	Total tenders received for a specific auction.
accepted_bids	NUMBER(20,5)	Accepted bids is the total amount offers including the total of the non-competitive tenders and non-public purchases.

FIELD NAME	FORMAT	DESCRIPTION
<b>accepted_competitive</b>	NUMBER(20,5)	This is the amount that is accepted from the competitive bids, which is the total accepted bids minus the non-competitive tenders.
<b>accepted_non_competitive</b>	NUMBER(20,5)	These tenders from the public, are bid at the offered yield.
<b>other_bids</b>	NUMBER(20,5)	These are from the Federal Reserve Banks, and foreign monetary authorities, FIMA and SOMA, which are sold in addition to the accepted bids.
<b>low_price</b>	NUMBER(15,5)	Also called the stop price. This is the lowest price that will be sold to competitive bidders.
<b>avg_price</b>	NUMBER(15,5)	The average price of accepted competitive tenders set for non-competitive tenders.
<b>high_price</b>	NUMBER(15,5)	Highest price (lowest yield) which competitive tenders are awarded.
<b>low_yield</b>	NUMBER(15,5)	The low yield bidders are awarded all of their bids at that yield.
<b>avg_yield</b>	NUMBER(15,5)	This is the mean yield that was accepted.
<b>high_yield</b>	NUMBER(15,5)	Also called the stop yield. This is the highest yield that will be sold, and bidders will receive a percentage of their bid amount. The high yield price is the equivalent price at the yield.
<b>accepted_at_high_yield</b>	NUMBER(15,5)	Each bidder at the stop yield is awarded a percentage of the amount for which it bid (i.e., if the percent awarded was 62% and there as a bid for 100m. the amount awarded at this level would be \$62m).
<b>bid_coverage_ratio</b>	NUMBER(15,5)	Compares the total competitive bids received, to the bids accepted.
<b>tail</b>	NUMBER(15,5)	The tail is the difference between the high yield and the average.
<b>tendered_competitive</b>	NUMBER(20,5)	Total of formal bids submitted with the best prices and terms for a specific security.
<b>tendered_non_competitive</b>	NUMBER(20,5)	Total of formal bids submitted which would be awarded at an average price.
<b>tendered_public_subtotal</b>	NUMBER(20,5)	Total of all public formal bids submitted, excluding SOMA and FIMA.
<b>accepted_public_subtotal</b>	NUMBER(20,5)	Total accepted bids from all public formal bids submitted, excluding SOMA and FIMA.
<b>tendered_soma</b>	NUMBER(20,5)	Total of formal bids submitted by the Federal Reserve Bank.
<b>tendered_fima</b>	NUMBER(20,5)	Total of formal bids submitted by the Foreign Monetary Authorities.
<b>accepted_soma</b>	NUMBER(20,5)	Total of formal bids accepted that were submitted by the Federal Reserve Bank.
<b>accepted_fima</b>	NUMBER(20,5)	Total of formal bids accepted that were submitted by the Foreign Monetary Authorities.
<b>tendered_new_cash</b>	NUMBER(20,5)	Additional amounts tendered from foreign institutions during a specified auction.
<b>accepted_new_cash</b>	NUMBER(20,5)	Additional amounts accepted from foreign institutions during a specified auction.
<b>tendered_total</b>	NUMBER(20,5)	Total of all formal bids for the specific auction.
<b>accepted_total</b>	NUMBER(20,5)	Total of all formal bids that were accepted for the specific auction.

## TREASURY\_STRIPS

The data feed table, TREASURY\_STRIPS, lists the characteristics of a strippable security. This information includes the Auction date, tint CUSIP, corpus CUSIP, portions held in strip and unstripped form, and the reconstituted amount.

FIELD NAME	FORMAT	DESCRIPTION
<b>auction_date</b>	DATE	The date when the security was auctioned.
<b>issue_id</b>	NUMBER	A FTSE Russell -generated number unique to each issue used to link each issue's data among the data feed tables.
<b>tint_cusip</b>	VARCHAR2(9)	A nine digit number that is given to the interest portion that was stripped from a security.
<b>corpus_cusip</b>	VARCHAR2(9)	A nine digit number that is given to the principal portion that was striped from a security.
<b>held_in_strip_form</b>	NUMBER(20,5)	Portion of interest or principal held in strip form.
<b>held_in_unstrip_form</b>	NUMBER(20,5)	Portion of interest or principal held in unstripped form.
<b>reconstituted_amount</b>	NUMBER(20,5)	The portion of interest and principal that is reassembled back together.
<b>updated_date</b>	DATE	Date which information is updated.

## UNIT

The table, UNIT, lists detailed information on unit offerings. Unit offerings consist of a bond together with a second security, often a warrant (long-term option) to purchase the issuer's stock.

FIELD NAME	FORMAT	DESCRIPTION
<b>issue_id</b>	NUMBER	A FTSE Russell -generated number unique to each issue used to link each issue's data among the data feed tables.
<b>unit_cusip</b>	VARCHAR2(9)	The CUSIP of the unit.
<b>total_units_offered</b>	NUMBER(20,5)	Total number of units offered.
<b>principal_amt_per_unit</b>	NUMBER(20,5)	The principal amount of each unit.
<b>allocated_offering_price</b>	NUMBER(15,5)	From the prospectus, the value of the bond part of the unit. The unit's price is divided into the price allocated to the bond and the price allocated to the second security in the unit.

## WARRANT

The table, WARRANT, details the structure of warrants included in the data feed. A warrant provides an issuer with the right, but not the obligation, to purchase the underlying security or product at a specified price during a specified time period. Warrants are issued as part of a unit offering, attached to a bond. Issuing warrants helps lower the cost of capital for the issuing firm and may make the issue more attractive to investors, thereby improving its marketability.

FIELD NAME	FORMAT	DESCRIPTION
<b>exercise_commod_type</b>	VARCHAR2(4)	A code denoting the type of commodity the bondholder will receive upon exercising the warrant (e.g., the issuer's common stock, common stock of another firm, or gold or silver bullion).
<b>issue_id</b>	NUMBER	A FTSE Russell -generated number unique to each issue used to link data among the data feed tables.
<b>total_warrants</b>	NUMBER(20,5)	The total number of warrants offered.
<b>warrants_per_unit</b>	NUMBER(15,5)	The number of warrants offered per unit.



FIELD NAME	FORMAT	DESCRIPTION
<b>warrant_cusip</b>	VARCHAR2(9)	The CUSIP of the warrant. If the warrant may be traded independently of the debt with which it was offered, the warrant's CUSIP will be different from the CUSIP of either the debt or the original unit.
<b>exercise_commod_issuer</b>	VARCHAR2(64)	The name of this issuer of the commodity into which the warrant may be converted.
<b>commod_cusip</b>	VARCHAR2(9)	The CUSIP of the commodity into which the warrant may be converted (if applicable).
<b>percent_outstanding_commod</b>	NUMBER(15,5)	The percentage of the total exercise commodity purchasable through the exercise of all warrants.
<b>exercise_commod_qty</b>	NUMBER(15,5)	The quantity of the exercise commodity a warrant holder can purchase if the warrant is exercised.
<b>qty_subj_adjustment</b>	VARCHAR2(1)	A flag indicating the exercise commodity quantity is subject to adjustment. This feature protects the debtholder from possible dilution in the value of the warrant due to the issuance of more of the exercise commodity.
<b>market_commod_price</b>	NUMBER(15,5)	The market price of the exercise commodity as of the offering date of the issue.
<b>exercise_price</b>	NUMBER(15,5)	Effective purchase price of the exercise commodity with the warrant.
<b>price_subj_adjustment</b>	VARCHAR2(1)	A flag indicating that the exercise price (effective purchase price of the exercise commodity with the warrant) is subject to adjustment. This feature protects the debtholder from possible dilution in the value of the warrant due to the issuance of more of the exercise commodity.
<b>purchase_useability</b>	VARCHAR2(1)	A flag indicating that the note/debenture can be used, as an alternative to cash, to pay for the underlying commodity upon exercise of the warrant.
<b>date_transferable</b>	DATE	The date that the warrants can be sold separately from the debt portion of the offering.
<b>date_subj_adjustment</b>	VARCHAR2(1)	A flag indicating that the transferable date (the date on which the warrants may be sold separately from the debt portion of the offering) is subject to adjustment.
<b>exercise_effective_date</b>	DATE	The first date that the warrant can be exercised.
<b>exercise_expiration_date</b>	DATE	The last date that the warrant can be exercised.
<b>period_subj_adjustment</b>	VARCHAR2(1)	A flag indicating that the exercise period (period during which the debtholder may convert the warrant into the exercise commodity) is subject to adjustment.
<b>subj_triggering_event</b>	VARCHAR2(1)	A flag indicating that the exercise period can change subject to some triggering event.
<b>change_control_protection</b>	VARCHAR2(1)	A flag indicating that the warrant has change of control protection provision, potentially limiting a debtholder's losses if the credit worthiness or stock price of the company into which the warrant is convertible falls due to a change of control at the company.
<b>callable</b>	VARCHAR2(1)	A flag indicating that the warrant is callable.
<b>allocated_offering_price</b>	NUMBER(15,5)	Value of the warrant portion of the unit as allocated in the prospectus.
<b>agent_id</b>	NUMBER	A unique FTSE Russell -generated number to identify each agent.

## WARRANT\_REDEMP\_SCHED

The table, WARRANT\_REDEMP\_SCHED, details the mandatory redemption features of the warrants in the data feed.

FIELD NAME	FORMAT	DESCRIPTION
<b>exercise_commod_type</b>	VARCHAR2(4)	A code denoting the type of commodity the bondholder will receive upon exercising the warrant (e.g., common stock of the issuer, common stock of another firm or gold or silver bullion).
<b>redemption_date</b>	DATE	The date the warrants will be redeemed by the issuer.
<b>issue_id</b>	NUMBER	A FTSE Russell -generated number unique to each issue used to link each issue's data among the data feed tables.
<b>redemption_price</b>	NUMBER(15,5)	The price at which the warrants will be redeemed on the redemption date.

## INTRADAY AND DAILY UPDATE FILES

As mentioned earlier, intraday and daily update files will have two additional columns, "action" and "table\_name", which will appear at the beginning of each record. These fields are defined as follows:

FIELD NAME	FORMAT	DESCRIPTION
<b>action</b>	VARCHAR2(1)	A code denoting the specific action to perform when processing the row. Valid actions are "I" for insert, "U" for update and "D" for delete. Occasionally, you may receive actions that contradict data currently contained in your copy of the data (i.e. an insert action for a row that already exists or an update or delete action for a row that doesn't exist). Please add the appropriate checks in your loading process to handle these types of occurrences.
<b>table_name</b>	VARCHAR2(30)	The name of the data feed table affected by the action.

# Code translation values

Following are the various codes used throughout the Corporate Bond Securities Data Feed. Please note that depending on your current use of FISC data, some codes may not apply to you. Also note that the codes listed below may not reflect the most recent data. Please refer to the latest full data feed refresh file along with any post-refresh intraday update files for the latest table contents. Lastly, please be aware that codes denoted as an asterisk (\*) are included for reference only and do not represent mappable values.

TYPE	CODE	DESCRIPTION
1962	NOTE	CALLABLE - CHANGES IN TAX LAWS
7723	NOTE	RANGE IS 270 DAYS.
7942	NOTE	RANGE IS 365 DAYS.
7943	NOTE	RANGE IS 360 DAYS.
7944	NOTE	RANGE IS 210 DAYS.
7948	NOTE	RANGE IS 185 DAYS.
7949	NOTE	RANGE IS 180 DAYS.
7953	NOTE	RANGE IS 120 DAYS.
7955	NOTE	RANGE IS 90 DAYS.
7956	NOTE	RANGE IS 60 DAYS.
7957	NOTE	RANGE IS 30 DAYS.
9607	NOTE	THE MAKE WHOLE PREMIUM IS BASED ON...
9695	NOTE	RANGE IS 366 DAYS.
ACTION_TYPE	B	Balance of Issue Called
ACTION_TYPE	C	Issue Converted
ACTION_TYPE	D	Eminent Domain
ACTION_TYPE	E	Entire Issue Called
ACTION_TYPE	F	Issue Refunded
ACTION_TYPE	I	Initial Offering of An Issue
ACTION_TYPE	IA	Inactive Issue
ACTION_TYPE	ID	Issue Defeased
ACTION_TYPE	II	Initial Offering Increase
ACTION_TYPE	IL	Initial Load
ACTION_TYPE	IM	Issue Matured
ACTION_TYPE	IPO	IPO Clawback Option
ACTION_TYPE	IRM	Issue Remarketed
ACTION_TYPE	IRP	Issue Repurchased
ACTION_TYPE	L	Release Of Property
ACTION_TYPE	M	Maintenance And Replacement
ACTION_TYPE	N	Not Available
ACTION_TYPE	O	Optional Sinking Fund Increase
ACTION_TYPE	OA	Over-Allotment
ACTION_TYPE	P	Part of an Issue Called
ACTION_TYPE	PIK	Pay-in-kind

TYPE	CODE	DESCRIPTION
ACTION_TYPE	R	Reorganization
ACTION_TYPE	REV	Review
ACTION_TYPE	RO	Reopening
ACTION_TYPE	S	Sinking Fund Payment
ACTION_TYPE	SA	Sale of Asset
ACTION_TYPE	SD	Sudden Death
ACTION_TYPE	T	Issue Tendered
ACTION_TYPE	TR	Treasury Reconstitution
ACTION_TYPE	X	Issue Exchanged
AGENT_TYPE	EX	Exchange Agent
AGENT_TYPE	FA	Fiscal Agent
AGENT_TYPE	LU	Lead Underwriter
AGENT_TYPE	T	Trustee
AGENT_TYPE	U	Underwriter
BOND_TYPE	ABS	US Asset Backed Security
BOND_TYPE	ADEB	US Agency Debenture
BOND_TYPE	ADNT	US Agency Discount Notes
BOND_TYPE	AMTN	US Agency MTN
BOND_TYPE	ARNT	US Agency Retail Note
BOND_TYPE	ASPZ	US Agency Strips/Zero
BOND_TYPE	BBON	Brady Bonds
BOND_TYPE	C10Y	On-The-Run 10-Year Canadian Treasury
BOND_TYPE	C1Y	On-The-Run 1-Year Canadian Treasury
BOND_TYPE	C2Y	On-The-Run 2-Year Canadian Treasury
BOND_TYPE	C30Y	On-The-Run 30-Year Canadian Treasury
BOND_TYPE	C3M	On-The-Run 3-Month Canadian Treasury
BOND_TYPE	C5Y	On-The-Run 5-Year Canadian Treasury
BOND_TYPE	C6M	On-The-Run 6-Month Canadian Treasury
BOND_TYPE	CCOV	US Corporate Convertible
BOND_TYPE	CCPI	US Corporate Inflation Indexed
BOND_TYPE	CCUR	Foreign Currency Debenture
BOND_TYPE	CDEB	US Corporate Debentures
BOND_TYPE	CLOC	US Corporate LOC Backed
BOND_TYPE	CMTN	US Corporate MTN
BOND_TYPE	CMTZ	US Corporate MTN Zero
BOND_TYPE	CP	US Corporate Paper
BOND_TYPE	CPAS	US Corporate Pass Thru Trust
BOND_TYPE	CPIK	US Corporate PIK Bond
BOND_TYPE	CS	US Corporate Strip
BOND_TYPE	CTBD	Canadian Treasury Bond
BOND_TYPE	CTBL	Canadian Treasury Bill
BOND_TYPE	CUIT	US Corporate UIT

TYPE	CODE	DESCRIPTION
BOND_TYPE	CZ	US Corporate Zero
BOND_TYPE	EBON	Eurobond
BOND_TYPE	EMTN	Euro MTN
BOND_TYPE	FGOV	Foreign Governments and Agencies
BOND_TYPE	FGS	Foreign Government Strip
BOND_TYPE	IIDX	Inflation Indexed Security
BOND_TYPE	MBS	US Mortgage Backed Security
BOND_TYPE	MUNI	Municipal
BOND_TYPE	O10Y	On-The-Run 10-Year Treasury
BOND_TYPE	O13W	On-The-Run 13-Week Treasury
BOND_TYPE	O26W	On-The-Run 26-Week Treasury
BOND_TYPE	O2Y	On-The-Run 2-Year Treasury
BOND_TYPE	O30Y	On-The-Run 30-Year Treasury
BOND_TYPE	O3Y	On-The-Run 3-Year Treasury
BOND_TYPE	O4W	On-The-Run 4-Week Treasury
BOND_TYPE	O52W	On-The-Run 52-Week Treasury
BOND_TYPE	O5Y	On-The-Run 5-Year Treasury
BOND_TYPE	O7Y	On-The-Run 7-Year Treasury
BOND_TYPE	PS	Preferred Security
BOND_TYPE	PSTK	Preferred Stock
BOND_TYPE	RNT	Retail Note
BOND_TYPE	TPCS	Trust Preferred Capital Security
BOND_TYPE	TXMU	Taxable Muni
BOND_TYPE	UCID	US Corporate Insured Debenture
BOND_TYPE	USBD	US Government Bond
BOND_TYPE	USBL	US Government Bill
BOND_TYPE	USBN	US Corporate Bank Note
BOND_TYPE	USNT	US Government Note
BOND_TYPE	USSI	US Government Strips - Interest
BOND_TYPE	USSP	US Government Strips - Principal
BOND_TYPE	USTC	US Government Trust Certificate
CALL_FREQ	A	Annual
CALL_FREQ	C	Continuously
CALL_FREQ	D	Every 3 Years
CALL_FREQ	E	Every 5 Years
CALL_FREQ	F	Every 2 Years
CALL_FREQ	G	Daily
CALL_FREQ	H	Every 4 Years
CALL_FREQ	M	Monthly
CALL_FREQ	N	Other
CALL_FREQ	O	Once
CALL_FREQ	Q	Quarterly

TYPE	CODE	DESCRIPTION
CALL_FREQ	S	Semi-Annual
CALL_FREQ	T	Twice
CHANGE_REASON	C	Official CUSIP Change
CHANGE_REASON	I	Initial
CHANGE_REASON	N	Name Change
COCO_CHANGE_FREQ	A	Annual
COCO_CHANGE_FREQ	NONE	Not Applicable
COCO_CHANGE_FREQ	Q	Quarterly
COCO_CHANGE_FREQ	S	Semi-Annual
COCO_DAYS_IN_PREVIOUS	PD	Preceding Days
COCO_DAYS_IN_PREVIOUS	Q	Quarter
COCO_DAYS_IN_PREVIOUS	S	Six-Months
COCO_TRADE_DAYS	11	1 out of 1
COCO_TRADE_DAYS	1520	15 out of 20
COCO_TRADE_DAYS	2020	20 out of 20
COCO_TRADE_DAYS	2030	20 out of 30
COCO_TRIG_EXPRESSED	ACP	Accreted Conversion Price
COCO_TRIG_EXPRESSED	AV	Accreted Value
COCO_TRIG_EXPRESSED	BMP	Bond Market Price
COCO_TRIG_EXPRESSED	CP	Conversion Price
COCO_TRIG_EXPRESSED	ISP	Initial Stock Price
COMMODITY_TYPE	ADS	American Depository Shares
COMMODITY_TYPE	CS	Common Stock
COMMODITY_TYPE	CSA	Class A Common Stock
COMMODITY_TYPE	CSB	Class B Common Stock
COMMODITY_TYPE	DEB	Note/Debenture
COMMODITY_TYPE	NA	Not Available
COMMODITY_TYPE	PC	Purchase Contract
COMMODITY_TYPE	PS	Preferred Stock
COMMODITY_TYPE	RS	Registered Shares
COMMODITY_TYPE	USD	US Dollar
CONTACT_TYPE	AO	Amount Outstanding
CONTACT_TYPE	AR	Annual Report
CONTACT_TYPE	CH	Corporate Headquarters
CONTACT_TYPE	IR	Investor Relations
CONTACT_TYPE	MA	Mailing Address
CONVERT_CHANGE_REASON	AM	Aquisition/Merger
CONVERT_CHANGE_REASON	I	Initial
CONVERT_CHANGE_REASON	NC	Name Change
CONVERT_CHANGE_REASON	REV	Review
CONVERT_CHANGE_REASON	TC	Ticker Change
COUNTRY	ABW	Aruba

TYPE	CODE	DESCRIPTION
COUNTRY	AFG	Afghanistan
COUNTRY	AGO	Angola
COUNTRY	AIA	Anguilla
COUNTRY	ALB	Albania
COUNTRY	AND	Andorra
COUNTRY	ANT	Netherlands Antilles
COUNTRY	ARE	United Arab Emirates
COUNTRY	ARG	Argentina
COUNTRY	ARM	Armenia
COUNTRY	ASM	American Samoa
COUNTRY	ATA	Antarctica
COUNTRY	ATF	French Southern Territories
COUNTRY	ATG	Antigua and Barbuda
COUNTRY	AUS	Australia
COUNTRY	AUT	Austria
COUNTRY	AZE	Azerbaijan
COUNTRY	BDI	Burundi
COUNTRY	BEL	Belgium
COUNTRY	BEN	Benin
COUNTRY	BFA	Burkina Faso
COUNTRY	BGD	Bangladesh
COUNTRY	BGR	Bulgaria
COUNTRY	BHR	Bahrain
COUNTRY	BHS	Bahamas
COUNTRY	BIH	Bosnia and Herzegovina
COUNTRY	BLR	Belarus
COUNTRY	BLZ	Belize
COUNTRY	BMU	Bermuda
COUNTRY	BOL	Bolivia
COUNTRY	BRA	Brazil
COUNTRY	BRB	Barbados
COUNTRY	BRN	Brunei Darussalam
COUNTRY	BTN	Bhutan
COUNTRY	BVT	Bouvet Island
COUNTRY	BWA	Botswana
COUNTRY	CAF	Central African Republic
COUNTRY	CAN	Canada
COUNTRY	CCK	Cocos (Keeling) Islands
COUNTRY	CHE	Switzerland
COUNTRY	CHL	Chile
COUNTRY	CHN	China (Peoples Republic of)
COUNTRY	CIV	Cote d'Ivoire (Ivory Coast)

TYPE	CODE	DESCRIPTION
COUNTRY	CMR	Cameroon
COUNTRY	COG	Congo
COUNTRY	COK	Cook Islands
COUNTRY	COL	Colombia
COUNTRY	COM	Comoros
COUNTRY	CPV	Cape Verde
COUNTRY	CRI	Costa Rica
COUNTRY	CUB	Cuba
COUNTRY	CXR	Christmas Island (Australia)
COUNTRY	CYM	Cayman Islands
COUNTRY	CYP	Cyprus
COUNTRY	CZE	Czech Republic
COUNTRY	DEU	Germany
COUNTRY	DJI	Djibouti
COUNTRY	DMA	Dominica
COUNTRY	DNK	Denmark
COUNTRY	DOM	Dominican Republic
COUNTRY	DZA	Algeria
COUNTRY	ECU	Ecuador
COUNTRY	EGY	Egypt
COUNTRY	ERI	Eritrea
COUNTRY	ESH	Western Sahara
COUNTRY	ESP	Spain
COUNTRY	EST	Estonia
COUNTRY	ETH	Ethiopia
COUNTRY	FIN	Finland
COUNTRY	FJI	Fiji
COUNTRY	FLK	Falkland Islands (Malvinas)
COUNTRY	FRA	France
COUNTRY	FRO	Faeroe Islands
COUNTRY	FSM	Micronesia (Federated States of)
COUNTRY	GAB	Gabon
COUNTRY	GBR	United Kingdom (Great Britain)
COUNTRY	GEO	Georgia
COUNTRY	GGY	Guernsey
COUNTRY	GHA	Ghana
COUNTRY	GIB	Gibraltar
COUNTRY	GIN	Guinea
COUNTRY	GLP	Guadeloupe
COUNTRY	GMB	Gambia
COUNTRY	GNB	Guinea-Bissau
COUNTRY	GNQ	Equatorial Guinea



TYPE	CODE	DESCRIPTION
COUNTRY	GRC	Greece
COUNTRY	GRD	Grenada
COUNTRY	GRL	Greenland
COUNTRY	GTM	Guatemala
COUNTRY	GUF	French Guiana
COUNTRY	GUM	Guam
COUNTRY	GUY	Guyana
COUNTRY	HKG	Hong Kong
COUNTRY	HMD	Heard and McDonald Islands
COUNTRY	HND	Honduras
COUNTRY	HRV	Croatia (Hrvatska)
COUNTRY	HTI	Haiti
COUNTRY	HUN	Hungary
COUNTRY	IDN	Indonesia
COUNTRY	IMN	Isle of Man
COUNTRY	IND	India
COUNTRY	IOT	British Indian Ocean Territory
COUNTRY	IRL	Ireland
COUNTRY	IRN	Iran (Islamic Republic of)
COUNTRY	IRQ	Iraq
COUNTRY	ISL	Iceland
COUNTRY	ISR	Israel
COUNTRY	ITA	Italy
COUNTRY	JAM	Jamaica
COUNTRY	JER	Jersey (Channel Islands)
COUNTRY	JOR	Jordan
COUNTRY	JPN	Japan
COUNTRY	KAZ	Kazakhstan
COUNTRY	KEN	Kenya
COUNTRY	KGZ	Kyrgyzstan
COUNTRY	KHM	Cambodia
COUNTRY	KIR	Kiribati
COUNTRY	KNA	Saint Kitts and Nevis
COUNTRY	KOR	Korea, Republic of (South)
COUNTRY	KWT	Kuwait
COUNTRY	LAO	Lao People's Democratic Republic
COUNTRY	LBN	Lebanon
COUNTRY	LBR	Liberia
COUNTRY	LBY	Libyan Arab Jamahiriya
COUNTRY	LCA	Saint Lucia
COUNTRY	LIE	Liechtenstein
COUNTRY	LKA	Sri Lanka

TYPE	CODE	DESCRIPTION
COUNTRY	LSO	Lesotho
COUNTRY	LTU	Lithuania
COUNTRY	LUX	Luxembourg
COUNTRY	LVA	Latvia
COUNTRY	MAC	Macau
COUNTRY	MAR	Morocco
COUNTRY	MCO	Monaco
COUNTRY	MDA	Moldova (Republic of)
COUNTRY	MDG	Madagascar
COUNTRY	MDV	Maldives
COUNTRY	MEX	Mexico
COUNTRY	MHL	Marshall Islands
COUNTRY	MKD	Macedonia (Former Yugoslav Rep)
COUNTRY	MLI	Mali
COUNTRY	MLT	Malta
COUNTRY	MMR	Myanmar
COUNTRY	MNG	Mongolia
COUNTRY	MNP	Northern Mariana Islands
COUNTRY	MOZ	Mozambique
COUNTRY	MRT	Mauritania
COUNTRY	MSR	Montserrat
COUNTRY	MTQ	Martinique
COUNTRY	MUS	Mauritius
COUNTRY	MWI	Malawi
COUNTRY	MYS	Malaysia
COUNTRY	MYT	Mayotte
COUNTRY	NAM	Namibia
COUNTRY	NCL	New Caledonia
COUNTRY	NER	Niger
COUNTRY	NFK	Norfolk Island
COUNTRY	NGA	Nigeria
COUNTRY	NIC	Nicaragua
COUNTRY	NIU	Niue
COUNTRY	NLD	Netherlands
COUNTRY	NOR	Norway
COUNTRY	NPL	Nepal
COUNTRY	NRU	Nauru
COUNTRY	NZL	New Zealand
COUNTRY	OMN	Oman
COUNTRY	PAK	Pakistan
COUNTRY	PAN	Panama
COUNTRY	PCN	Pitcairn

TYPE	CODE	DESCRIPTION
COUNTRY	PER	Peru
COUNTRY	PHL	Philippines
COUNTRY	PLW	Palau
COUNTRY	PNG	Papua New Guinea
COUNTRY	POL	Poland
COUNTRY	PRI	Puerto Rico
COUNTRY	PRK	Korea, Democratic People's Republic (North)
COUNTRY	PRT	Portugal
COUNTRY	PRY	Paraguay
COUNTRY	PSE	Palestine (Occupied Territory of)
COUNTRY	PYF	French Polynesia
COUNTRY	QAT	Qatar
COUNTRY	REU	Reunion
COUNTRY	ROM	Romania
COUNTRY	RUB	Russian Ruble
COUNTRY	RUS	Russian Federation
COUNTRY	RWA	Rwanda
COUNTRY	SAU	Saudi Arabia
COUNTRY	SDN	Sudan
COUNTRY	SEN	Senegal
COUNTRY	SGP	Singapore
COUNTRY	SGS	S Georgia / S Sandwich Islands
COUNTRY	SHN	Saint Helena
COUNTRY	SJM	Svalbard and Jan Mayen Islands
COUNTRY	SLB	Solomon Islands
COUNTRY	SLE	Sierra Leone
COUNTRY	SLV	El Salvador
COUNTRY	SMR	San Marino
COUNTRY	SOM	Somalia
COUNTRY	SPM	Saint Pierre and Miquelon
COUNTRY	SRB	Serbia
COUNTRY	STP	Sao Tome and Principe
COUNTRY	SUN	USSR
COUNTRY	SUR	Suriname
COUNTRY	SVK	Slovakia
COUNTRY	SVN	Slovenia
COUNTRY	SWE	Sweden
COUNTRY	SWZ	Swaziland
COUNTRY	SYC	Seychelles
COUNTRY	SYR	Syrian Arab Republic
COUNTRY	TCA	Turks and Caicos Islands
COUNTRY	TCD	Chad

TYPE	CODE	DESCRIPTION
COUNTRY	TGO	Togo
COUNTRY	THA	Thailand
COUNTRY	TJK	Tajikistan
COUNTRY	TKL	Tokelau
COUNTRY	TKM	Turkmenistan
COUNTRY	TMP	East Timor
COUNTRY	TON	Tonga
COUNTRY	TTO	Trinidad and Tobago
COUNTRY	TUN	Tunisia
COUNTRY	TUR	Turkey
COUNTRY	TUV	Tuvalu
COUNTRY	TWN	Taiwan (Province of China)
COUNTRY	TZA	Tanzania (United Republic of)
COUNTRY	UGA	Uganda
COUNTRY	UKR	Ukraine
COUNTRY	UMI	United States Minor Outlying Islands
COUNTRY	URY	Uruguay
COUNTRY	USA	United States of America
COUNTRY	UZB	Uzbekistan
COUNTRY	VAT	Vatican City State (Holy See)
COUNTRY	VCT	Saint Vincent and the Grenadines
COUNTRY	VEN	Venezuela
COUNTRY	VGB	Virgin Islands (British)
COUNTRY	VIR	Virgin Islands (US)
COUNTRY	VNM	Viet Nam
COUNTRY	VUT	Vanuatu
COUNTRY	WLF	Wallis and Futuna Islands
COUNTRY	WSM	Samoa
COUNTRY	YEM	Yemen
COUNTRY	YUG	Yugoslavia
COUNTRY	ZAF	South Africa
COUNTRY	ZAR	Zaire
COUNTRY	ZMB	Zambia
COUNTRY	ZWE	Zimbabwe
COUPON_CHANGE_IND	C	Combination
COUPON_CHANGE_IND	CFFI	Combo - Floating/Fixed
COUPON_CHANGE_IND	CFFL	Combo - Fixed/Floating
COUPON_CHANGE_IND	CFLS	Combo - Floating/Stepped
COUPON_CHANGE_IND	CSFL	Combo - Stepped/Floating
COUPON_CHANGE_IND	D	Deferred Interest
COUPON_CHANGE_IND	E	Extendable
COUPON_CHANGE_IND	F	Floating Rate

TYPE	CODE	DESCRIPTION
COUPON_CHANGE_IND	N	Fixed Listing
COUPON_CHANGE_IND	R	Reset Or Remarketed
COUPON_CHANGE_IND	S	Floating Rate - Rating Sensitive
COUPON_CHANGE_IND	T	Fixed Listing - Rating Sensitive
COUPON_CHANGE_IND	U	Step-Up/Down
COUPON_CHANGE_IND	X	Extendable Reset
COUPON_FREQUENCY	A	Annual
COUPON_FREQUENCY	D	Daily
COUPON_FREQUENCY	M	Monthly
COUPON_FREQUENCY	Q	Quarterly
COUPON_FREQUENCY	SA	Semi-Annual
COUPON_FREQUENCY	W	Weekly
COUPON_INDEX	CD	CD
COUPON_INDEX	CMT	CMT
COUPON_INDEX	COUP	Coupon
COUPON_INDEX	CP	Commercial Paper
COUPON_INDEX	CPI	Consumer Price Index
COUPON_INDEX	CYV	Current Years Value of Basket
COUPON_INDEX	EBOR	EURIBOR
COUPON_INDEX	FF	Federal Funds
COUPON_INDEX	L	LIBOR
COUPON_INDEX	MAX	Maximum
COUPON_INDEX	MIN	Minimum
COUPON_INDEX	P	Prime
COUPON_INDEX	PMAX	Periodic Maximum
COUPON_INDEX	PMIN	Periodic Minimum
COUPON_INDEX	PSA	PSA Muni Swap Index
COUPON_INDEX	PYV	Prior Years Value of Basket
COUPON_INDEX	RL	Reuters LIBOR
COUPON_INDEX	T	Treasury
COUPON_INDEX	TL	Telerate LIBOR
COUPON_INDEX_MAT	A	Annual
COUPON_INDEX_MAT	D	Daily
COUPON_INDEX_MAT	M	Monthly
COUPON_INDEX_MAT	Q	Quarterly
COUPON_INDEX_MAT	SA	Semi-Annually
COUPON_INDEX_MAT	W	Weekly
COUPON_TYPE	F	Fixed
COUPON_TYPE	V	Variable
COUPON_TYPE	Z	Zero
CURRENCY	AED	United Arab Emirates Dirham
CURRENCY	AFA	Afghanistan Afghani

TYPE	CODE	DESCRIPTION
CURRENCY	ALL	Albanian Lek
CURRENCY	AMD	Armenian Dram
CURRENCY	ANG	Netherlands Antilles Guilder (AKA Florin or Gulden)
CURRENCY	AON	Angolan New Kwanza
CURRENCY	ARS	Argentine Peso
CURRENCY	ATS	Austrian Schilling
CURRENCY	AUD	Australian Dollar
CURRENCY	AWG	Aruban Guilder (AKA Florin or Gulden)
CURRENCY	AZM	Azerbaijani Manat
CURRENCY	BAM	Bosnia and Herzegovina Convertible Marka
CURRENCY	BBD	Barbados Dollar
CURRENCY	BDT	Bangladesh Taka
CURRENCY	BEF	Belgian Franc
CURRENCY	BGL	Bulgarian Lev
CURRENCY	BHD	Bahraini Dinar
CURRENCY	BIF	Burundi Franc
CURRENCY	BMD	Bermuda Dollar
CURRENCY	BND	Brunei Dollar (AKA Ringitt)
CURRENCY	BOB	Bolivian Boliviano
CURRENCY	BRL	Brazilian Real
CURRENCY	BSD	Bahamian Dollar
CURRENCY	BTN	Bhutan Ngultrum
CURRENCY	BWP	Botswana Pula
CURRENCY	BYB	Belarussian Ruble
CURRENCY	BZD	Belize Dollar
CURRENCY	CAD	Canadian Dollar
CURRENCY	CHF	Swiss Franc
CURRENCY	CLP	Chilean Peso
CURRENCY	CNY	Chinese Renminbi (Yuan)
CURRENCY	COP	Colombian Peso
CURRENCY	CRC	Costa Rican Colon
CURRENCY	CUP	Cuban Peso
CURRENCY	CVE	Cape Verde Escudo
CURRENCY	CYP	Cyprus Pound
CURRENCY	CZK	Czech Koruna
CURRENCY	DEM	Deutsche Mark
CURRENCY	DJF	Djibouti Franc
CURRENCY	DKK	Danish Krone
CURRENCY	DOP	Dominican Republic Peso
CURRENCY	DZD	Algerian Dinar
CURRENCY	ECS	Ecuador Sucre
CURRENCY	EEK	Estonian Kroon

TYPE	CODE	DESCRIPTION
CURRENCY	EGP	Egyptian Pound
CURRENCY	ESP	Spanish Peseta
CURRENCY	ETB	Ethiopian Birr
CURRENCY	EUR	Euro
CURRENCY	FIM	Finnish Markka (AKA Finmark)
CURRENCY	FJD	Fiji Dollar
CURRENCY	FKP	Falkland Islands Pound
CURRENCY	FRF	French Franc
CURRENCY	GBP	British Pound (Pound Sterling)
CURRENCY	GEL	Georgian Lari
CURRENCY	GHC	Ghana Cedi
CURRENCY	GIP	Gibraltar Pound
CURRENCY	GMD	Gambian Dalasi
CURRENCY	GNF	Guinea Franc
CURRENCY	GRD	Greek Drachma
CURRENCY	GTQ	Guatemalan Quetzal
CURRENCY	GWP	Guinea-Bissau Peso
CURRENCY	GYD	Guyana Dollar
CURRENCY	HKD	Hong Kong Dollar
CURRENCY	HNL	Honduran Lempira
CURRENCY	HRK	Croatian Kuna
CURRENCY	HTG	Haitian Gourde
CURRENCY	HUF	Hungarian Forint
CURRENCY	IDR	Indonesian Rupiah
CURRENCY	IEP	Irish Punt or Pound
CURRENCY	ILS	Israeli Shekel (New)
CURRENCY	INR	Indian Rupee
CURRENCY	IQD	Iraqi Dinar
CURRENCY	IRR	Iranian Rial
CURRENCY	ISK	Icelandic Krona
CURRENCY	ITL	Italian Lira
CURRENCY	JMD	Jamaican Dollar
CURRENCY	JOD	Jordanian Dinar
CURRENCY	JPY	Japanese Yen
CURRENCY	KES	Kenyan Shilling
CURRENCY	KGS	Kyrgyzstanian Som
CURRENCY	KHR	Cambodian Riel
CURRENCY	KMF	Comoro Franc
CURRENCY	KPW	North Korean Won
CURRENCY	KRW	South Korean Won
CURRENCY	KWD	Kuwaiti Dinar
CURRENCY	KYD	Cayman Islands Dollar

TYPE	CODE	DESCRIPTION
CURRENCY	KZT	Kazakhstanian Tenge
CURRENCY	LAK	Laotian New Kip
CURRENCY	LBP	Lebanese Pound (Livre)
CURRENCY	LKR	Sri Lankan Rupee
CURRENCY	LRD	Liberian Dollar
CURRENCY	LSL	Lesotho Loti (plural Maloti)
CURRENCY	LTL	Lithuanian Litas
CURRENCY	LUF	Luxembourg Franc
CURRENCY	LVL	Latvian Lats
CURRENCY	LYD	Libyan Dinar
CURRENCY	MAD	Moroccan Dirham
CURRENCY	MDL	Moldovan Leu
CURRENCY	MGF	Malagasy Franc (Ariary)
CURRENCY	MKD	Macedonian Denar
CURRENCY	MMK	Myanmar Kyat
CURRENCY	MNT	Mongolian Tugrik
CURRENCY	MOP	Macau Pataca
CURRENCY	MRO	Mauritanian Ouguiya
CURRENCY	MTL	Maltese Lira
CURRENCY	MUR	Mauritian Rupee
CURRENCY	MVR	Maldives Islands Rufiyaa
CURRENCY	MWK	Malawi Kwacha
CURRENCY	MXN	Mexican Peso
CURRENCY	MYR	Malaysian Ringgit
CURRENCY	MZM	Mozambique Metical
CURRENCY	NAD	Namibian Dollar
CURRENCY	NGN	Nigerian Naira
CURRENCY	NIO	Nicaraguan Cordoba Oro
CURRENCY	NLG	Netherlands/Dutch Guilder
CURRENCY	NOK	Norwegian Krone
CURRENCY	NPR	Nepalese Rupee
CURRENCY	NZD	New Zealand Dollar
CURRENCY	OMR	Rial Omani
CURRENCY	PAB	Panamanian Balboa
CURRENCY	PEN	Peruvian Nuevo Sol
CURRENCY	PGK	Papua New Guinea Kina
CURRENCY	PHP	Philippines Peso
CURRENCY	PKR	Pakistani Ruppee
CURRENCY	PLN	Polish Zloty
CURRENCY	PLZ	Polish Zloty
CURRENCY	PTE	Portuguese Escudo
CURRENCY	PYG	Paraguayan Guarani



TYPE	CODE	DESCRIPTION
CURRENCY	QAR	Qatari Rial
CURRENCY	ROL	Romanian Leu
CURRENCY	RUB	Russian Ruble
CURRENCY	RWF	Rwandan Franc
CURRENCY	SAR	Saudi Riyal
CURRENCY	SBD	Solomon Islands Dollar
CURRENCY	SCR	Seychelles Rupee
CURRENCY	SDD	Sudanese Dinar (1992-)
CURRENCY	SEK	Swedish Krona
CURRENCY	SGD	Singapore Dollar
CURRENCY	SHP	Saint Helena Pound
CURRENCY	SIT	Slovenian Tolar
CURRENCY	SKK	Slovakia Koruna
CURRENCY	SLL	Sierra Leone Leone
CURRENCY	SOS	Somali Shilling
CURRENCY	SRG	Surinam Guilder
CURRENCY	STD	Sao Tome & Principe Dobra
CURRENCY	SVC	El Salvador Colon
CURRENCY	SYP	Syrian Pound
CURRENCY	SZL	Swaziland Lilangeni (plural Emalangeni)
CURRENCY	THB	Thai Baht
CURRENCY	TJR	Tajik Ruble
CURRENCY	TMM	Turkmenistanian Manat
CURRENCY	TND	Tunisian Dinar
CURRENCY	TOP	Tongan Pa'anga
CURRENCY	TRL	Turkish Lira
CURRENCY	TRY	New Turkish Lira
CURRENCY	TTD	Trinidad & Tobago Dollar
CURRENCY	TWD	Taiwan Dollar
CURRENCY	TZS	Tanzanian Shilling
CURRENCY	UAH	Ukrainian Hryvnia
CURRENCY	UGX	Ugandan Shilling
CURRENCY	USD	US Dollar
CURRENCY	UYU	Uruguayan New Peso
CURRENCY	VEB	Venezuelan Bolivar
CURRENCY	VND	Vietnamese Dong
CURRENCY	VUV	Vanuatu Vatu
CURRENCY	WST	Western Samoan Tala
CURRENCY	XAF	CFA Franc BEAC
CURRENCY	XCD	East Caribbean Dollar
CURRENCY	XEU	European Union (-1998) (European Currency Unit)
CURRENCY	XOF	CFA Franc BCEAO

TYPE	CODE	DESCRIPTION
CURRENCY	YER	Yemeni Rial
CURRENCY	YUM	Yugoslavian New Dinar
CURRENCY	ZAR	South African Rand
CURRENCY	ZMK	Zambian Kwacha
CURRENCY	ZRN	Zaire New Zaire (-1997)
CURRENCY	ZWD	Zimbabwe Dollar
DEAL_TYPE	COMP	Competitive
DEAL_TYPE	EXCH	Exchange
DEAL_TYPE	NEG	Negotiated
DEFAULT_TYPE	B	Bankruptcy
DEFAULT_TYPE	C	Covenant
DEFAULT_TYPE	I	Interest
DEFAULT_TYPE	P	Principal
DEFEASANCE_TYPE	C	Covenants
DEFEASANCE_TYPE	L	Legal
DEPOSITORY_ELIGIBILITY	CDS	Canadian Depository
DEPOSITORY_ELIGIBILITY	CED	Clearstream
DEPOSITORY_ELIGIBILITY	CEF	Clearstream, Fedwire, Euroclear
DEPOSITORY_ELIGIBILITY	DCE	DTC, Clearstream, Euroclear
DEPOSITORY_ELIGIBILITY	DCED	DTC, Clearstream, Euroclear, Canadian Depository
DEPOSITORY_ELIGIBILITY	DE	DTC, Euroclear
DEPOSITORY_ELIGIBILITY	DFEC	DTC, Fed, Euroclear, Clearstream
DEPOSITORY_ELIGIBILITY	DTC	Depository Trust Company
DEPOSITORY_ELIGIBILITY	DTCC	DTC, Clearstream
DEPOSITORY_ELIGIBILITY	EUCD	Euroclear, Clearstream
DEPOSITORY_ELIGIBILITY	EUR	Euroclear
DEPOSITORY_ELIGIBILITY	FED	Fedwire
DEPOSITORY_ELIGIBILITY	SICO	SICOVAM
DP_RATING	A	6
DP_RATING	A+	5
DP_RATING	A-	7
DP_RATING	AA	3
DP_RATING	AA+	2
DP_RATING	AA-	4
DP_RATING	AAA	1
DP_RATING	B	15
DP_RATING	B+	14
DP_RATING	B-	16
DP_RATING	BB	12
DP_RATING	BB+	11
DP_RATING	BB-	13
DP_RATING	BBB	9

TYPE	CODE	DESCRIPTION
DP_RATING	BBB+	8
DP_RATING	BBB-	10
DP_RATING	CCC	18
DP_RATING	DD	25
DP_RATING	NR	27
DP_RATING	SUSP	26
ENH_TYPE	G	Guarantee
ENH_TYPE	INS	Insured
ENH_TYPE	LOC	Letter of Credit
EXCHANGE	A	American Stock Exchange
EXCHANGE	ADX	Abu Dhabi Securities Exchange
EXCHANGE	AMST	Amsterdam Exchange
EXCHANGE	ARCA	New York Stock Exchange Arca
EXCHANGE	ASX	Australian Stock Exchange
EXCHANGE	B	Boston Stock Exchange
EXCHANGE	BA	Buenos Aires Stock Exchange
EXCHANGE	BE	Berlin Stock Exchange
EXCHANGE	BSE	Bombay Stock Exchange
EXCHANGE	C	Pacific Stock Exchange
EXCHANGE	CBOE	Chicago Board Options Exchange
EXCHANGE	DGSE	Duesseldorf Stock Exchange
EXCHANGE	DLAS	Delisted From AMEX
EXCHANGE	DLNA	Delisted From NASDAQ
EXCHANGE	DLNY	Delisted From NYSE
EXCHANGE	DLOT	Delisted From OTC
EXCHANGE	ENEX	Euronext
EXCHANGE	EXAM	Euronext Amsterdam
EXCHANGE	EXBR	Euronext Brussels
EXCHANGE	EXLI	Euronext Lisbon
EXCHANGE	EXPA	Euronext Paris
EXCHANGE	FFSE	Frankfurt Stock Exchange
EXCHANGE	H	Hong Kong Limited
EXCHANGE	HAN	Hannover Stock Exchange
EXCHANGE	IDX	Indonesia Stock Exchange
EXCHANGE	IRI	Irish (Dublin) Stock Exchange
EXCHANGE	ISE	Italian Stock Exchange
EXCHANGE	JSX	Jakarta Stock Exchange
EXCHANGE	KUA	Kuala Lumpur Stock Exchange
EXCHANGE	L	London Stock Exchange
EXCHANGE	MEX	Mexico Stock Exchange
EXCHANGE	MICE	Moscow Interbank Currency Exchange
EXCHANGE	MON	Montreal Stock Exchange

TYPE	CODE	DESCRIPTION
EXCHANGE	MSE	Madrid Stock Exchange
EXCHANGE	MUN	Munich Stock Exchange
EXCHANGE	N	New York Stock Exchange
EXCHANGE	NA	Not Applicable
EXCHANGE	NAS	Nasdaq Stock Exchange
EXCHANGE	NE	No Exchange
EXCHANGE	NMS	National Market System
EXCHANGE	NONE	No Ticker
EXCHANGE	NZ	New Zealand Stock Exchange
EXCHANGE	OOTC	Other OTC (Non-Bulletin Board)
EXCHANGE	OSLO	Oslo Bors Exchange
EXCHANGE	OTC	Over The Counter
EXCHANGE	P	Philadelphia Stock Exchange
EXCHANGE	PAR	Paris Stock Exchange
EXCHANGE	PHIL	Philippine Stock Exchange
EXCHANGE	PORT	Portal Market (Nasdaq)
EXCHANGE	QE	Qatar Stock Exchange
EXCHANGE	S	Singapore Stock Exchange
EXCHANGE	SAN	Santiago Stock Exchange
EXCHANGE	STO	Stockholm Exchange
EXCHANGE	STU	Stuttgart Stock Exchange
EXCHANGE	SWX	Swiss Stock Exchange
EXCHANGE	T	Toronto Stock Exchange
EXCHANGE	TAI	Taiwan Stock Exchange
EXCHANGE	THA	Thailand Stock Exchange
EXCHANGE	TSE	Tokyo Exchange Market
EXCHANGE	TSXV	TSX Venture Exchange
EXCHANGE	X	Luxembourg Stock Exchange
FILING_TYPE	C11L	Chapter 11 (Liquidation)
FILING_TYPE	C11R	Chapter 11 (Reorganization)
FILING_TYPE	C15L	Chapter 15 (Liquidation)
FILING_TYPE	C15R	Chapter 15 (Reorganization)
FILING_TYPE	C7	Chapter 7
FITCH_CALL_VUL	1	Unlikely To Be Called At Par
FITCH_CALL_VUL	1+	Will Not Be Called At Par
FITCH_CALL_VUL	2	Moderate Vulnerability To Call At Par
FITCH_CALL_VUL	3	High Vulnerability To Call At Par
FITCH_CALL_VUL	NR	Not Rated
FITCH_RATING	A	6
FITCH_RATING	A+	5
FITCH_RATING	A-	7
FITCH_RATING	AA	3

TYPE	CODE	DESCRIPTION
FITCH_RATING	AA+	2
FITCH_RATING	AA-	4
FITCH_RATING	AAA	1
FITCH_RATING	B	15
FITCH_RATING	B+	14
FITCH_RATING	B-	16
FITCH_RATING	BB	12
FITCH_RATING	BB+	11
FITCH_RATING	BB-	13
FITCH_RATING	BBB	9
FITCH_RATING	BBB+	8
FITCH_RATING	BBB-	10
FITCH_RATING	C	21
FITCH_RATING	CC	20
FITCH_RATING	CCC	18
FITCH_RATING	CCC+	17
FITCH_RATING	CCC-	19
FITCH_RATING	D	25
FITCH_RATING	DD	24
FITCH_RATING	DDD	23
FITCH_RATING	NR	27
FITCH_RATING	SUSP	26
FIX_FREQUENCY	A	Annual
FIX_FREQUENCY	D	Daily
FIX_FREQUENCY	EFY	Every Five Years
FIX_FREQUENCY	ETV	Every Two Years
FIX_FREQUENCY	M	Monthly
FIX_FREQUENCY	MF	Monthly - Third Friday
FIX_FREQUENCY	MM	Monthly - Third Monday
FIX_FREQUENCY	MW	Monthly - Third Wednesday
FIX_FREQUENCY	Q	Quarterly
FIX_FREQUENCY	QM	Quarterly - Third Monday
FIX_FREQUENCY	QW	Quarterly - Third Wednesday
FIX_FREQUENCY	SA	Semi-Annual
FIX_FREQUENCY	SAW	Semi-Annual - Third Wednesday
FIX_FREQUENCY	W	Weekly
FORM_OF_OWNERSHIP	BE	Book Entry
FORM_OF_OWNERSHIP	C	Coupon
FORM_OF_OWNERSHIP	COMB	Combination
FORM_OF_OWNERSHIP	GS	Global Security
FORM_OF_OWNERSHIP	NA	Not Available
FORM_OF_OWNERSHIP	O	Other

TYPE	CODE	DESCRIPTION
FORM_OF_OWNERSHIP	R	Registered
FORM_OF_OWNERSHIP	R/C	Registered or Coupon
HOW_RELATED	ADON	Add On
HOW_RELATED	AINV	Accredited Investor CUSIP
HOW_RELATED	EXCH	Exchange
HOW_RELATED	INS	Insured
HOW_RELATED	MERG	Merger
HOW_RELATED	NC	Name Change
HOW_RELATED	OCC	Official CUSIP Change
HOW_RELATED	PARC	Pre-Assigned Registered CUSIP
HOW_RELATED	PINE	Portion of Issue Not Extended
HOW_RELATED	REGS	Regulation S / 144a
HOW_RELATED	RMKD	Remarketing
HOW_RELATED	RORG	Reorganization
HOW_RELATED	STRP	Strip
HOW_RELATED	TEND	Tender
HOW_RELATED	ULS	Underlying Security/Trust
HOW_RELATED	UNIT	Unit Deal
INDUSTRY_CODE	10	Manufacturing
INDUSTRY_CODE	11	Media/Communications
INDUSTRY_CODE	12	Oil And Gas
INDUSTRY_CODE	13	Railroad
INDUSTRY_CODE	14	Retail
INDUSTRY_CODE	15	Service/Leisure
INDUSTRY_CODE	16	Transportation
INDUSTRY_CODE	17	Mining/Refining
INDUSTRY_CODE	20	Banking
INDUSTRY_CODE	21	Credit/Financing
INDUSTRY_CODE	22	Financial Services
INDUSTRY_CODE	23	Insurance
INDUSTRY_CODE	24	Real Estate
INDUSTRY_CODE	25	Savings And Loan
INDUSTRY_CODE	26	Leasing
INDUSTRY_CODE	30	Electric
INDUSTRY_CODE	31	Gas
INDUSTRY_CODE	32	Telephone
INDUSTRY_CODE	33	Water
INDUSTRY_CODE	40	Foreign Agencies
INDUSTRY_CODE	41	Foreign Governments
INDUSTRY_CODE	42	Supranationals
INDUSTRY_CODE	43	US Treasuries
INDUSTRY_CODE	44	US Agencies

TYPE	CODE	DESCRIPTION
INDUSTRY_CODE	45	Taxable Municipal
INDUSTRY_CODE	60	Miscellaneous
INDUSTRY_CODE	99	Unassigned
INDUSTRY_GROUP	1	Industrial
INDUSTRY_GROUP	2	Financial
INDUSTRY_GROUP	3	Utility
INDUSTRY_GROUP	4	Government
INDUSTRY_GROUP	5	Miscellaneous
INTEREST_FREQ	0	None
INTEREST_FREQ	1	Annual
INTEREST_FREQ	2	Semi-Annual
INTEREST_FREQ	4	Quarterly
INTEREST_FREQ	-1	N/A
INTEREST_FREQ	12	Monthly
INTEREST_FREQ	13	Variable
INTEREST_FREQ	14	Bi-Monthly
INTEREST_FREQ	99	Pays At Maturity
ISSUER_REPORT	10K	Ten K Report
ISSUER_REPORT	10Q	Ten Q Report
ISSUER_REPORT	20F	Twenty F Report
ISSUER_REPORT	8K	Eight K Report
ISSUER_REPORT	AR	Annual Report
ISSUER_REPORT	ARI	AR-10K Internet
ISSUER_REPORT	ARM	10K Mailing List
ISSUER_REPORT	ARML	AR Mailing List
ISSUER_REPORT	ARP	AR or 10K Phone
ISSUER_REPORT	CC	Company Contact
ISSUER_REPORT	FS	Financial Supplement
ISSUER_REPORT	IS	Info Statement
ISSUER_REPORT	NR	News Release
ISSUER_REPORT	P	Proxy Report
ISSUER_REPORT	Q	Quarterly Report
ISSUER_REPORT	RA	Rating Analyst
MOODY_RATING	A	6
MOODY_RATING	A1	5
MOODY_RATING	A2	6
MOODY_RATING	A3	7
MOODY_RATING	Aa	3
MOODY_RATING	Aa1	2
MOODY_RATING	Aa2	3
MOODY_RATING	Aa3	4
MOODY_RATING	Aaa	1

TYPE	CODE	DESCRIPTION
MOODY_RATING	B	15
MOODY_RATING	B1	14
MOODY_RATING	B2	15
MOODY_RATING	B3	16
MOODY_RATING	Ba	12
MOODY_RATING	Ba1	11
MOODY_RATING	Ba2	12
MOODY_RATING	Ba3	13
MOODY_RATING	Baa	9
MOODY_RATING	Baa1	8
MOODY_RATING	Baa2	9
MOODY_RATING	Baa3	10
MOODY_RATING	C	21
MOODY_RATING	Ca	20
MOODY_RATING	Caa	18
MOODY_RATING	Caa1	17
MOODY_RATING	Caa2	18
MOODY_RATING	Caa3	19
MOODY_RATING	NR	27
MOODY_RATING	SUSP	26
NEWS_SRC	10K	10 - K Report
NEWS_SRC	10Q	10 - Q Report
NEWS_SRC	8K	Current Report (8-K)
NEWS_SRC	AR	Annual Report
NEWS_SRC	BNS	Bankruptcy News Source
NEWS_SRC	BW	Business Wire
NEWS_SRC	CBR	Called Bond Record
NEWS_SRC	CC	Company Contact
NEWS_SRC	DJN	Dow Jones News
NEWS_SRC	DTC	Depository Trust Company
NEWS_SRC	FDF	Fitch Daily Feed
NEWS_SRC	FFW	Fitch Financial Wire
NEWS_SRC	FWP	Free Writing Prospectus (FWP)
NEWS_SRC	IDD	Investment Dealers Digest (IDD)
NEWS_SRC	INET	Internet
NEWS_SRC	MCB	Moody's Called Bond Record
NEWS_SRC	MCM	MCM CorporateWatch
NEWS_SRC	MCMI	MCM CorporateWatch (Internet)
NEWS_SRC	MDF	Moody's Daily Feed
NEWS_SRC	NR	News Release
NEWS_SRC	O	Other
NEWS_SRC	P	Prospectus



TYPE	CODE	DESCRIPTION
NEWS_SRC	PRN	PR Newswire
NEWS_SRC	QR	Quarterly Report
NEWS_SRC	RA	Rating Analyst
NEWS_SRC	RP	Refunding Prospectus
NEWS_SRC	RR	Research Report
NEWS_SRC	SDF	S&P Daily Feed
NEWS_SRC	SF	Sinking Fund Payment
NEWS_SRC	TB	Treasury Bulletin
NEWS_SRC	UND	Underwriter
NEWS_SRC	WSJ	Wall Street Journal
NEWS_SRC	XCI	Xcitek
NOTE_TYPE	AMT	Amount Outstanding Notes
NOTE_TYPE	BFS	Bankruptcy Filing Status
NOTE_TYPE	BPC	Bondholder Protective Covenants
NOTE_TYPE	CALL	Call
NOTE_TYPE	COUP	Coupon Change
NOTE_TYPE	COV	Other Covenants Restricting Issuer
NOTE_TYPE	GEN	General
NOTE_TYPE	II	Issue Info
NOTE_TYPE	IRC	Issuer Restrictive Covenants
NOTE_TYPE	MR	Maintenance and Replacment
NOTE_TYPE	PUT	Put
NOTE_TYPE	REF	Refunding
NOTE_TYPE	REOR	Reorganization
NOTE_TYPE	SF	Sinking Fund
NOTE_TYPE	SRC	Subs Restrictive Covenants
NOTE_TYPE	SUB	Other Covenants Restricting Subsidiary of Issuer
NOTE_TYPE	UNIT	Unit
OFFER_TYPE	E	Exchange Offer
OFFER_TYPE	T	Tender Offer
PROSPECTUS_SOURCE	CC	Company Contact
PROSPECTUS_SOURCE	DIS	Disclosure
PROSPECTUS_SOURCE	FED	Fed Filings
PROSPECTUS_SOURCE	INT	Internet
PROSPECTUS_SOURCE	O	Other
PROSPECTUS_SOURCE	TBD	To Be Determined
PROSPECTUS_SOURCE	UND	Underwriter
RATING_CHANGE_REASON	AFRM	Affirmed
RATING_CHANGE_REASON	CONF	Confirmed
RATING_CHANGE_REASON	CP	Company Performance
RATING_CHANGE_REASON	DEF	Defeased
RATING_CHANGE_REASON	DNG	Downgrade

TYPE	CODE	DESCRIPTION
RATING_CHANGE_REASON	IL	Initial Load From AccentR
RATING_CHANGE_REASON	IN	Initial
RATING_CHANGE_REASON	IR	Internal Review
RATING_CHANGE_REASON	MA	Merger/Acquisition
RATING_CHANGE_REASON	MC	Market Conditions
RATING_CHANGE_REASON	N	None
RATING_CHANGE_REASON	RIN	Reinstated
RATING_CHANGE_REASON	UPG	Upgrade
RATING_CHANGE_REASON	WITH	Withdrawn
RATING_STATUS	NA	N/A
RATING_STATUS	WNEG	Negative Watch
RATING_STATUS	WNOT	Not On Watch
RATING_STATUS	WOFF	Off Watch
RATING_STATUS	WPOS	Positive Watch
RATING_STATUS	WUND	Undetermined Watch
RATING_TYPE	DPR	Duff and Phelps Rating
RATING_TYPE	FR	Fitch Rating
RATING_TYPE	FT	Fitch Credit Trend
RATING_TYPE	MR	Moody's Rating
RATING_TYPE	SPR	Standard and Poor's Rating
RECORD_TYPE	01	ISSUE
RECORD_TYPE	02	COUPON_FORMULAINDEX
RECORD_TYPE	03	AMOUNT_OUTSTANDING_HISTORY
RECORD_TYPE	04	SINKING_FUND_SCHEDULE
RECORD_TYPE	05	CALL_SCHEDULE
RECORD_TYPE	06	COUPON_CHANGE_SCHEDULE
RECORD_TYPE	07	NOTES
RECORD_TYPE	08	CODE
REORG_TYPE	L	Liquidation
REORG_TYPE	R	Reorganization
SC_MAKE_WHOLE_DEC_TYP	A	Annual
SC_MAKE_WHOLE_DEC_TYP	CP	Coupon Payments
SC_MAKE_WHOLE_DEC_TYP	CPV	Coupon Present Value
SECURITY_LEVEL	JUN	Junior
SECURITY_LEVEL	JUNS	Junior Subordinate
SECURITY_LEVEL	NON	NONE
SECURITY_LEVEL	SEN	Senior
SECURITY_LEVEL	SENS	Senior Subordinate
SECURITY_LEVEL	SS	Senior Secured
SECURITY_LEVEL	SUB	Subordinate
SECURITY_PLEDGE	M	Mortgage
SECURITY_PLEDGE	N	Note

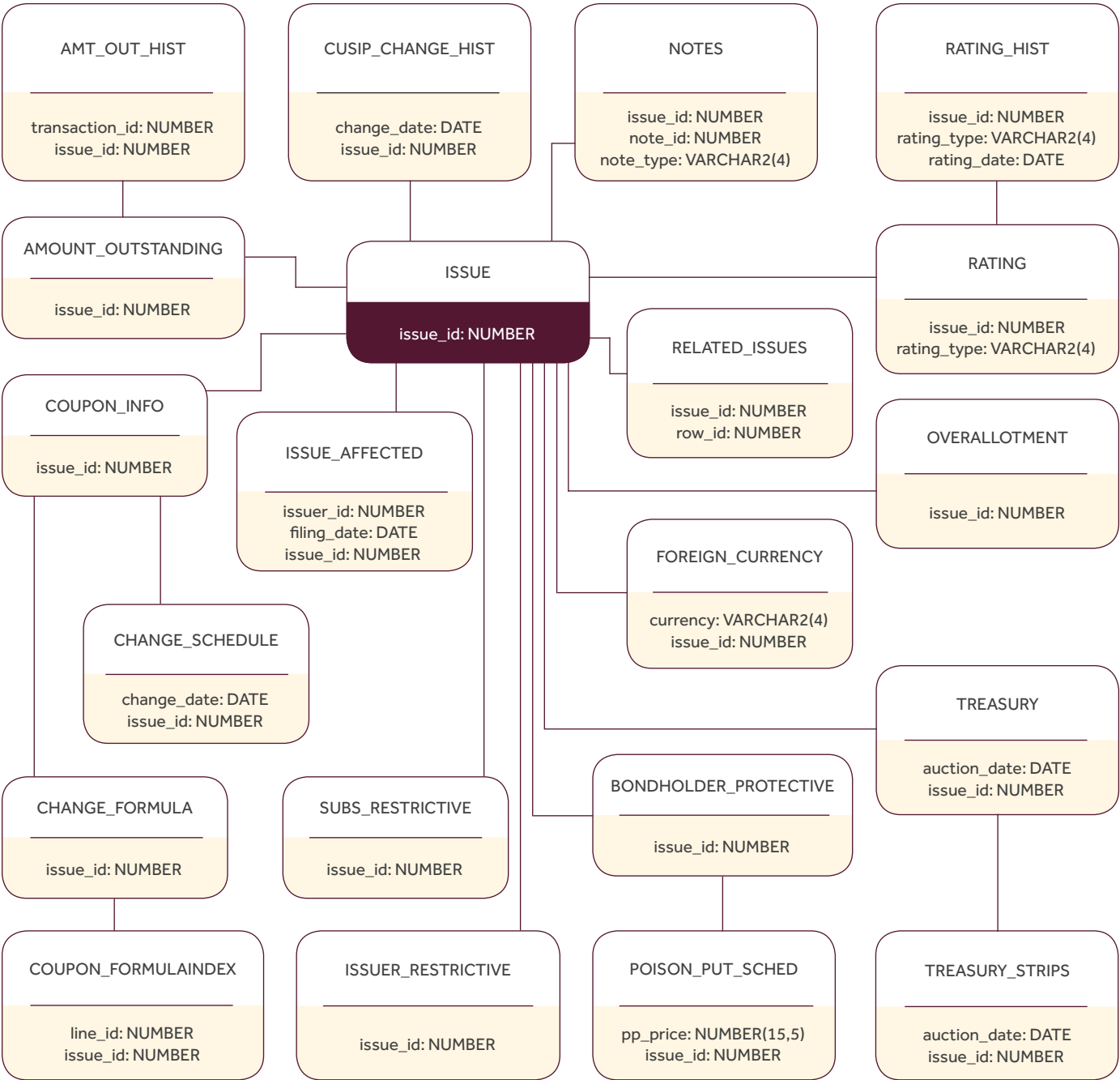
TYPE	CODE	DESCRIPTION
SEC_REG_TYPE	A	A
SEC_REG_TYPE	F-1	F-1
SEC_REG_TYPE	F-10	F-10
SEC_REG_TYPE	F-2	F-2
SEC_REG_TYPE	F-3	F-3
SEC_REG_TYPE	F-4	F-4
SEC_REG_TYPE	F-5	F-5
SEC_REG_TYPE	F-6	F-6
SEC_REG_TYPE	F-7	F-7
SEC_REG_TYPE	F-8	F-8
SEC_REG_TYPE	F-9	F-9
SEC_REG_TYPE	NA	Not Available
SEC_REG_TYPE	NR	Not Registered
SEC_REG_TYPE	NULL	(None)
SEC_REG_TYPE	R-1	R-1
SEC_REG_TYPE	RBNA	Registered But Type Not Available
SEC_REG_TYPE	RS	Regulation S
SEC_REG_TYPE	S-1	S-1
SEC_REG_TYPE	S-10	S-10
SEC_REG_TYPE	S-11	S-11
SEC_REG_TYPE	S-12	S-12
SEC_REG_TYPE	S-13	S-13
SEC_REG_TYPE	S-14	S-14
SEC_REG_TYPE	S-15	S-15
SEC_REG_TYPE	S-16	S-16
SEC_REG_TYPE	S-2	S-2
SEC_REG_TYPE	S-3	S-3
SEC_REG_TYPE	S-4	S-4
SEC_REG_TYPE	S-5	S-5
SEC_REG_TYPE	S-6	S-6
SEC_REG_TYPE	S-7	S-7
SEC_REG_TYPE	S-8	S-8
SEC_REG_TYPE	S-9	S-9
SEC_REG_TYPE	S-B	S-B
SEC_REG_TYPE	SB-1	SB-1
SEC_REG_TYPE	SB-2	SB-2
SETTLEMENT_TYPE	N	Next Day
SETTLEMENT_TYPE	S	Same Day
SP_RATING	A	6
SP_RATING	A+	5
SP_RATING	A-	7
SP_RATING	AA	3

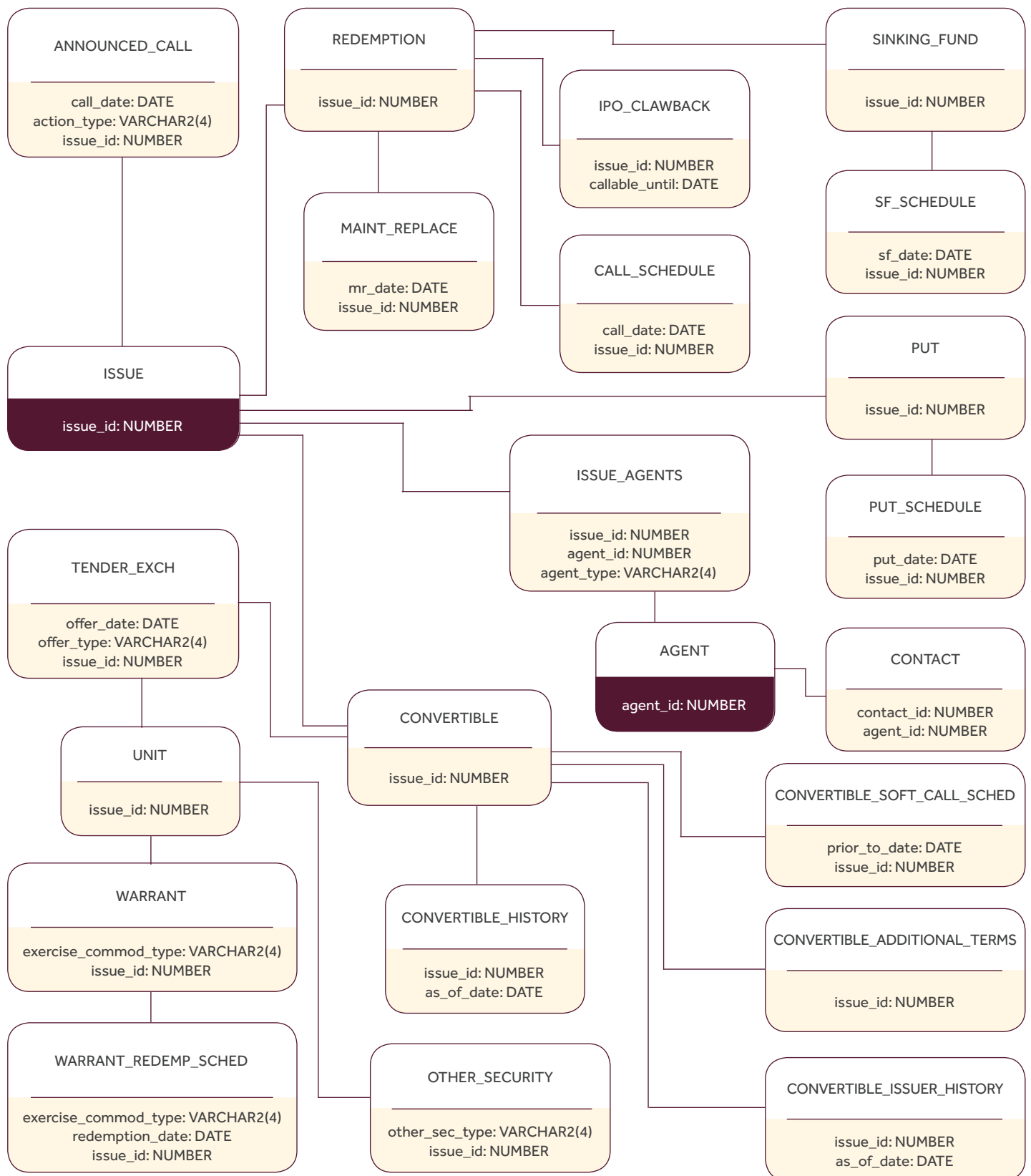
TYPE	CODE	DESCRIPTION
SP_RATING	AA+	2
SP_RATING	AA-	4
SP_RATING	AAA	1
SP_RATING	B	15
SP_RATING	B+	14
SP_RATING	B-	16
SP_RATING	BB	12
SP_RATING	BB+	11
SP_RATING	BB-	13
SP_RATING	BBB	9
SP_RATING	BBB+	8
SP_RATING	BBB-	10
SP_RATING	C	21
SP_RATING	CC	20
SP_RATING	CCC	18
SP_RATING	CCC+	17
SP_RATING	CCC-	19
SP_RATING	D	25
SP_RATING	NR	27
SP_RATING	SD	28
SP_RATING	SUSP	26
STATE	AK	ALASKA
STATE	AL	ALABAMA
STATE	AR	ARKANSAS
STATE	AZ	ARIZONA
STATE	CA	CALIFORNIA
STATE	CO	COLORADO
STATE	CT	CONNECTICUT
STATE	DC	DISTRICT OF COLUMBIA
STATE	DE	DELAWARE
STATE	FL	FLORIDA
STATE	GA	GEORGIA
STATE	HI	HAWAII
STATE	IA	IOWA
STATE	ID	IDAHO
STATE	IL	ILLINOIS
STATE	IN	INDIANA
STATE	KS	KANSAS
STATE	KY	KENTUCKY
STATE	LA	LOUISIANA
STATE	MA	MASSACHUSETTS
STATE	MD	MARYLAND

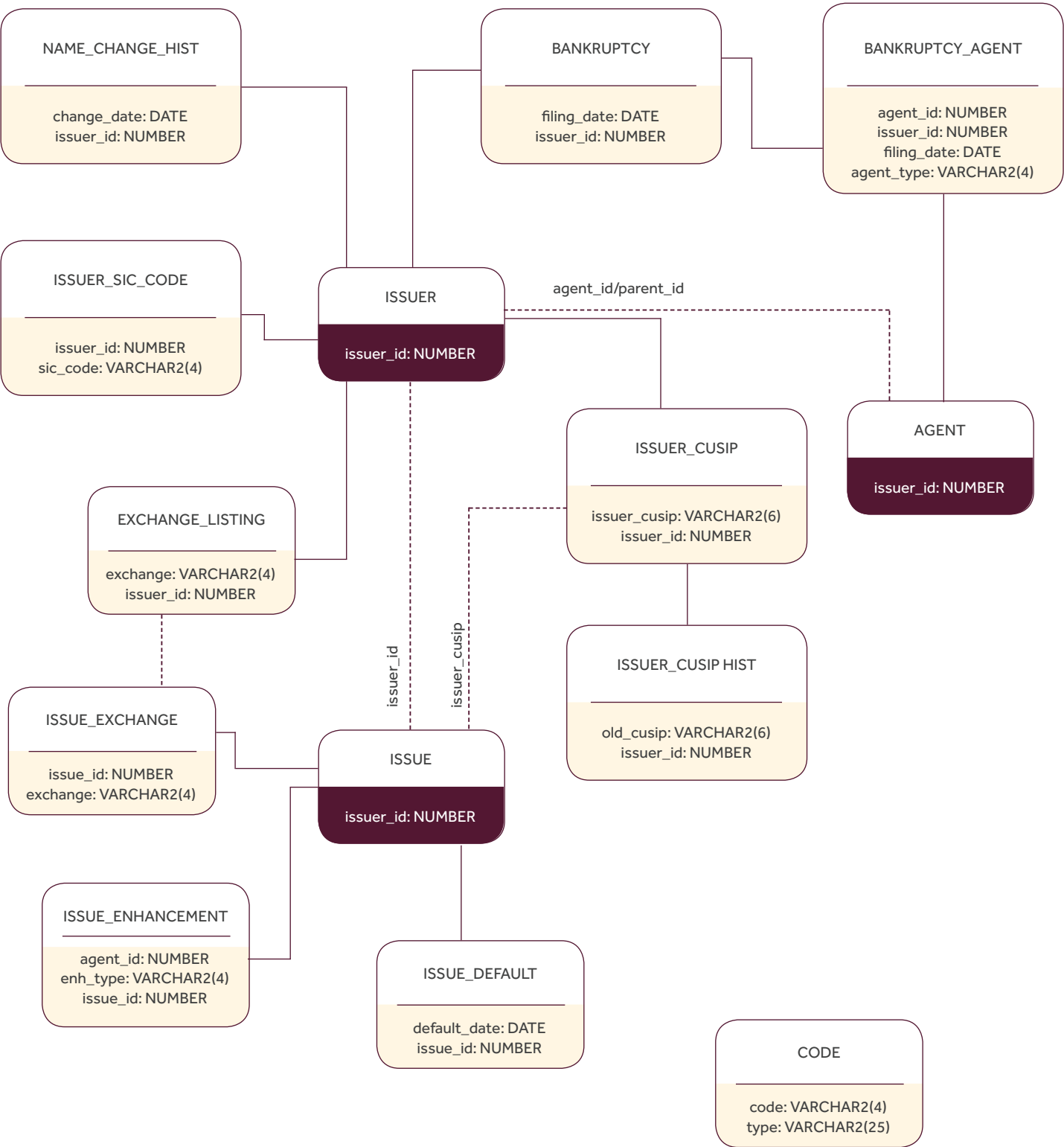
TYPE	CODE	DESCRIPTION
STATE	ME	MAINE
STATE	MI	MICHIGAN
STATE	MN	MINNESOTA
STATE	MO	MISSOURI
STATE	MS	MISSISSIPPI
STATE	MT	MONTANA
STATE	NC	NORTH CAROLINA
STATE	ND	NORTH DAKOTA
STATE	NE	NEBRASKA
STATE	NH	NEW HAMPSHIRE
STATE	NJ	NEW JERSEY
STATE	NM	NEW MEXICO
STATE	NV	NEVADA
STATE	NY	NEW YORK
STATE	OH	OHIO
STATE	OK	OKLAHOMA
STATE	OR	OREGON
STATE	PA	PENNSYLVANIA
STATE	PR	PUERTO RICO
STATE	RI	RHODE ISLAND
STATE	SC	SOUTH CAROLINA
STATE	SD	SOUTH DAKOTA
STATE	TN	TENNESSEE
STATE	TX	TEXAS
STATE	UT	UTAH
STATE	VA	VIRGINIA
STATE	VT	VERMONT
STATE	WA	WASHINGTON
STATE	WI	WISCONSIN
STATE	WV	WEST VIRGINIA
STATE	WY	WYOMING
TRANSACTION_TYPE	D	Delete
TRANSACTION_TYPE	I	Insert
TRANSACTION_TYPE	U	Update
USER_ROLE	N	Non-Technical
USER_ROLE	R	Read Only
USER_ROLE	S	Security
USER_ROLE	T	Technical

# Relational diagram

Following is an abbreviated relational diagram of the FTSE Russell Corporate Bond Data product. This describes the relationship between the various tables that make up the corporate feed. Please note that each table below only lists primary key fields. Please refer to each individual table definition for more information regarding field content and complete field lists.









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