

Note: The Attachments are provided as references. Financial Institutions were previously notified of any changes that may affect their institutions regarding file formats and Bulkdata Appl IDs.

Attachment 1: Incoming Bulkdata Appl IDs

These are INCOMING from Financial Institutions *to the FRB*.

APPL ID	Description of APPL ID		APPL ID	Description of APPL ID
CPRR	Incoming Return Retrievals in ANSI Format		ECO1	ECL Type 1 File from <u>Inter</u> -District Commercial Depositor
DRSD	Incoming Direct/Consolidated		ECO2	ECL Type 2 File from <u>Inter</u> -District Commercial Depositor
ECL1	ECL Type 1 File from Intra-District Commercial Depositor		ECO3	ECL Type 3 File from <u>Inter</u> -District Commercial Depositor
ECL2	ECL Type 2 File from <u>Intra</u> -District Commercial Depositor		FNST	Incoming Fine Sort Deposits
ECL 3	ECL Type 3 File from <u>Intra</u> -District Commercial Depositor		RORR	Return Retrieval SOPIV.8 Format

Assumptions:

- Defining ADF with header NOT stripped, Bulkdata default UDF naming convention, Auto post processing – these apply to incoming. Compression will be ANSI

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Attachment 2: Outgoing Bulkdata Appl IDs

These are OUTGOING from the FRB to *Financial Institutions*. Key: d = District #, o = Office Letter Code, n = Numeric Value

APPL ID	Description		APPL ID	Description
ADdn	Customer District Unique Account Totals		PDAT	Account Totals in Print Display Format
CKAT	Customer Account Totals File		PDdn	District Unique Account Totals
DMIC	Deposit		RRCK	Return Retrieval Acknowledgement for ANSI File
EMIC	Commingled Early MICR		RRCS	Return Retrieval Acknowledgement for SOPIV.8 File
FNSA	Food Coupons		SDSA	Same Day Settlement Account Totals Transmission #1
HDAT	High Dollar Account Totals		SDSB	Same Day Settlement Account Totals #2
HMCR	High Dollar Group Sort MICR File		SDSC	Same Day Settlement Account Totals #3
ISdo	Image Services File for Image		SDSM	Same Day Settlement File MICR File #1
MCdo	Match File for Image		SDSN	Same Day Settlement File MICR File #2
MICA	MICR File to DI ANSI Format		SDSO	Same Day Settlement File MICR File #3
MIdn	District Unique MICR File		TCPH	Treasury Direct
MICR	MICR File to DI SOPIV.8 Format		TRdo	Treasury Match File

Notes:

- Defining ADF with Header Stripped, Bulkdata Default UDF naming convention, Auto –post processing – this applies to incoming.
- Compression will be defined for ANSI.

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Attachment 3: ANSI X.9.37 File Format

Below are the details of file layouts for all record types in this format. In preliminary stages, your FRB Office would have notified you of any changes that may affect file exchanges. If you need assistance in identifying the file format used at your institution, or if you need further clarification regarding these format tables, please contact your FRB Test Representative.

Record Size = 80; Block Size = 10

File Header Record				
Position	Field Name	Picture	Req/Opt/Cond	Description
01-02	Record Type	9(02)	R	Record type identifier
03-04	Standard Level	9(02)	R	A code that identifies the version of the standard used to create file currently X9.37-1994.
05-05	Test File Indicator	X(01)	R	Indicates whether a test or production file is being transmitted.
06-14	Immediate Destination Routing Number	9(09)	R	Receiving institution Routing/Transit number.
15-23	Immediate Origin Routing Number	9(09)	R	Originating institution (FRB Office) Routing/Transit number.
24-31	File Creation Date	9(08)	R	Date when file was created.
32-35	File Creation Time	9(04)	R	Time when file was created.
36-36	Resend Indicator	X(01)	R	Indicates whether file has been previously transmitted.
37-54	Immediate Destination Name	X(18)	C	Short name of receiving institution.
55-72	Immediate Origin Name	X(18)	C	Short name of FRB Office creating file.
73-73	File ID Modifier	X(01)	C	Code that permits multiple files sent to the same institution to be distinguished.
74-75	Country Code	X(02)	C	Identifies country where file created.
76-79	User Field	X(04)	C	Field available for users.
80-80	Reserved	X(01)	R	Reserved for future use.

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Cash Letter Header Record				
Position	Field Name	Picture	Req/Opt/Cond	Description
01-02	Record Type	9(02)	M	Record type identifier.
03-04	Collection Type Indicator	9(02)	M	A code that identifies the type of Cash Letter.
05-13	Final Destination Routing Number	9(09)	M	Receiving institution Routing/Transit number.
14-22	ECE Institution Routing Number	9(09)	M	Originating institution (FRB Office) Routing/Transit number.
29-30	Cash Letter Business Date	9(08)	M	The next business date after the Cash Letter creation date.
31-38	Cash Letter Creation Date	9(08)	M	Date when Cash Letter was created.
39-42	Cash Letter Creation Time	9(04)	M	Time when Cash Letter was created.
43-43	Empty Cash Letter Indicator	X(01)	M	Indicates whether Cash Letter contains any detail records.
44-44	Truncation Indicator	X(01)	C	Indicates whether all items in Cash Letter are truncated.
45-52	Cash Letter ID	X(08)	C	Code that identifies Cash Letter.
53-66	Originator Contact Name	X(14)	C	Contact name at originating FRB.
67-76	Originator Contact Phone Number	9(10)	C	FRB Office contact phone number.
* 77	User Field	9(01)	R	Specifies the type of ECL work being transmitted to DI. This value must be the same for all cash letters in this file. This value must also correspond to the Bulk Data ECL application ID for this ECL Type it is being sent under.
* 78-79		9(02)	R	Work type of ECL work being extracted. This value must be the same for all cash letters in this file. Please note that these values may be redefined to provide full deposit options for all Federal Reserve check deposits.
80-80	Reserved	X(01)	R	Reserved for future use.

- ANSI X.9.37 User area has been redefined by the Federal Reserve to be used to identify the ECL Type and ECL Work Type of the items being processed. These fields will always be populated from the Standard PBS profile.

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Bundle Header Record				
Position	Field Name	Picture	Req/Opt/Cond	Description
01-02	Record Type	9(02)	R	Record type identifier.
03-04	Collection Type Indicator	9(02)	R	Code that identifies bundle type.
05-13	Final Destination Routing Number	9(09)	R	Receiving institution Routing/Transit number.
14-22	ECE Institution Routing Number	9(09)	R	Originating institution (FRB Office) Routing/Transit number.
23-30	Bundle Business Date	9(08)	R	The next date after Cash Letter creation date.
31-38	Bundle Creation Date	9(08)	R	Bundle creation date.
39-48	Bundle ID	X(10)	C	Unique identifier of bundle. Value obtained from the Auxiliary On Us field from the batch ticket preceding the bundle. The value of the Auxiliary On Us field should be a random number between 6 and 10 digits in length.
49-52	Bundle Sequence Number	9(04)	C	Indicates the relative position of the bundle within the cash letter.
53-54	Cycle Number	X(02)	C	Denotes cycle under which bundle was created.
55-63	Return Location Routing Number	9(09)	C	Specifies location where preliminary return notifications and requests should be sent.
64-65	User Field	X(02)	C	Field available for users.
66-80	Reserved	X(15)	R	Reserved for future use.

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Check Detail Record				
Position	Field Name	Picture	Req/Opt/Cond	Description
01-02	Record Type	9(02)	R	Record type identifier.
03-17	Auxiliary On Us	X(15)	C	The 15 digit auxiliary On-Us field from the item MICR line (positions 48-62). *Most originating DIs limited to 12 char. in this field, which is typically only used on commercial or corporate checks. [Field 7 on MICR line]
18-18	External Processing Code	X(01)	C	The Extended Process Control field located in position 44 or 45 of MICR line. Used as an indicator for truncation or for qualified return checks. '0' indicates the field was blank on the check or was not available in the Check Processing software. [Field 6 on MICR line]
19-26	Payor Bank Routing Number	9(08)	R	The 8 digit routing & transit number from the item MICR line (Positions 35-42). [Field 5 on MICR line]
27-27	Payor Bank Routing Number Check Digit	9(01)	C	The check digit of the above eight digit routing and transit number on item.
28-47	On Us	X(20)	C	The On Us Field of the MICR document is located between positions 14 and 31 of the MICR-Line of the item. It is the information located between the Amount field and the Routing Transit field, usually including the Process Control or Transaction Code, Account Number and Optional Field 4. [Fields 2,3, & 4 on MICR line]
48-57	Item Amount	9(10)	R	The item amount field on the MICR line (positions 2-11). [Field 1 on MICR line].
58-72	ECE Institution Item Sequence Number	X(15)	R	Item Sequence Number (ISN/INF Number)
73-73	Documentation Type Indicator	X(01)	R	Code that indicates the type of document that supports check detail record.
74-74	Return Acceptance Ind.	X(01)	R	Code that indicates whether electronic returns will be accepted.
75-75	MICR Valid Indicator	9(01)	C	Indicates whether any field on the check MICR line has unreadable characters.

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Position	Field Name	Picture	Req/Opt/Cond	Description
76-76	BFD Indicator	X(01)	R	Indicates whether DI on bundle header record is the Bank of First Deposit (BFD).
77-77	Check Detail Record Addendum Count	9(01)	R	Indicates the number of check detail addenda records to follow.
78-78	On Us Format Ind.	9(01)	R	Indicates how the On Us field is formatted
79-79	User Field	X(02)	C	Field available for users.
80-80	Reserved	X(01)	R	Reserved for future use.

Bundle Control Record				
Position	Field Name	Picture	Req/Opt/Cond	Description
01-02	Record Type	9(02)	R	Record type identifier.
03-04	Items within Bundle Count	9(04)	R	Total number of item detail records within Bundle
05-13	Bundle Total Amount	9(12)	R	Total dollar amount of the items in this bundle.
14-22	MICR Valid Total Amount	9(12)	C	Total dollar amount of the items in this bundle that have a value '1' in the MICR valid indicator in their detail records.
64-65	User Field	X(48)	C	Field available for users.
79-80	Reserved	X(02)	R	Reserved for future use.

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Cash Letter Control Record				
Position	Field Name	Picture	Req/Opt/Cond	Description
01-02	Record Type	9(02)	R	Record type identifier.
03-08	Bundle Count	9(06)	R	Total number of bundles within Cash Letter
09-16	Items within Cash Letter Count	9(08)	R	Total number if detail items within Cash Letter
17-30	Cash letter Total Amount	9(14)	R	Total amt of all detail items within Cash Letter. This should match the sum of total amounts in the Bundle Control records.
31-48	Final Destination Name	X(18)	C	Name of receiving institution.
49-66	ECE Institution Name	X(18)	C	Name of FRB Office creating file.
67-74	Settlement Date	9(08)	C	Settlement Date for items; This field contains a date, which is the same value that is in the Cash Letter Business Date field of the Cash Letter Header Record and the Bundle Business Date field of the Bundle header record.
75-80	Reserved	X(06)	R	Reserved for future use.

File Control Record				
Position	Field Name	Picture	Req/Opt/Cond	Description
01-02	Record Type	9(02)	R	Record type identifier.
03-08	Cash Letter Count	9(06)	R	Total number of Cash Letters within file.
09-16	Total Records Count	9(08)	R	Total amount of all records within file. This includes the file control record.
17-24	Total Items Count	9(08)	R	Total number detail items within file.
25-40	File Total Amount	9(16)	R	Total amount of items in the file.
41-54	Immediate Origin Contact Name	X(14)	C	FRB Contact Name.
55-64	Immediate Origin Contact Phone Number	9(10)	C	FRB Phone Number.
65-80	Reserved	X(16)	R	Reserved for future use.

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Attachment 4: FRB SOP 4.8 File Format

Below are the details of file layouts for all record types in this format. In preliminary stages, your FRB Office would have notified you of any changes that may affect file exchanges. If you need assistance in identifying the file format used at your institution, or if you need further clarification regarding these format tables, please contact your FRB Test Representative.

Record Size = 94; Block Size = 10

File Header Record				
Position	Field Name	Picture	Req/Opt/Con d	Description
01-01	Record Type Code	9(01)	R	Record type identifier
02-03	Priority Code	9(02)	R	Priority code
04-04	Filler	X(01)	O	Filler area
05-13	Receiving ABA	9(09)	R	Receiving institution Routing/Transit number.
14-14	Filler	X(01)	O	Filler area
15-23	Originating ABA	9(09)	R	Originating institution (FRB Office) Routing/Transit number.
24-31	Process Date	9(08)	R	Date when work was extracted.
32-35	File Creation Time	9(04)	R	Time when work was extracted.
36-36	File ID Modifier	X(01)	R	Denotes transmission identifier to receiving institution. Sequential number derived from input extraction screen.
37-38	Record Size	9(02)	R	Denotes the logical size of records within the file.
39-40	Blocking Factor	9(02)	R	Denotes the blocking factor of the records within the file.
41-42	Filler	X(02)	O	Filler area
43-46	Destination FRB Prefix	9(04)	R	Federal Reserve Bank District & Office number. This field can identify the Federal Reserve Bank as the destination point or indicate the Federal Reserve office in which the Destination is located.

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Position	Field Name	Picture	Req/Opt/Cond	Description
47-64	Destination Institution Name	X(18)	R	Name of receiving bank.
65-68	Originating FRB Prefix	9(04)	R	Originating Federal Reserve Bank District & Office number. Four digit prefix for originating Federal Reserve Office or FRB office of originating DI
69-86	Filler	X(18)	O	Filler area.
87-94	Reserved	X(8)	O	Reserved for future use.

Batch Header Record				
Position	Field Name	Picture	Req/Opt/Cond	Description
01-01	Record Type Code	9(01)	R	Record type identifier
02-04	Service Class Code	9(03)	R	Service Class
05-29	Originating Institution Name	X(25)	R	Name of originating institution that processed batch.
30-38	Originating ABA	9(09)	R	Originating institution (FRB Office) Routing/Transit number that processed items.
39-46	Process Date	9(08)	R	Date when work was extracted.
47-50	Check Services Transaction Code	X(04)	R	Four character transaction code used to identify the type of transactions within this batch; Whether they are item detail records (MICR) or commingled summary (COMM) or account total (ACCT) records.
51-53	Batch Sequence	9(03)	R	A three character sequential count of the Batch Headers contained in the file.
54-62	Receiving ABA	9(09)	R	Receiving institution Routing/Transit number
63-64	Sort Code	X(02)	R	Indicates the type of work represented in the batch.
65-68	Key Block Number	9(04)	C	The two digit entry number that the batch of items belongs to. It is right justified zero filled. This indicator applies to MICR batches only otherwise it is initialized.

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Position	Field Name	Picture	Req/Opt/Cond	Description
69-72	C/L Type	X(04)	O	Type of Cash Letter. Not used for MICR Detail extractions
73-94	Filler	X(22)	O	Filler area

Item Detail Record				
Position	Field Name	Picture	Req/Opt/Cond	Description
01-01	Record Type Code	9(01)	R	Record type identifier
02-03	Transaction Code	9(02)	R	Record type transaction code
04-11	Routing/Transit Number	9(08)	R	The 8 digit routing & transit number from the item MICR line (Positions 35-42).
12-12	Check Digit	9(01)	R	The check digit of the above eight digit item routing and transit number.
13-29	Account Number	X(17)	R	The account number field from the item MICR line (positions 16-32). **
30-39	Amount	9(10)	R	The item amount field on the MICR line (positions 2-11).
40-54	Auxiliary On-Us	9(15)	R	The 15 digit auxiliary On-Us field from the item MICR line (positions 48-62). *Most originating DIs limited to 12 char. in this field, which is typically only used on commercial or corporate checks. **
55-60	Process Control or Transcode	9(06)	R	The Process Control or item transaction code field on the item MICR line (positions 13-18). **
61-61	Extended Process Control Field	9(01)	R	The Extended Process Control field located in position 44 or 45 of MICR line. Used as an indicator for truncation or for qualified return checks. '0' indicates the field was blank on the check or was not available in the Check Processing software.
62-69	Film Sequence Number or Image Locator Number.	9(08)	R	Audit information in the form of a microfilm sequence number or an image locator number.

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Position	Field Name	Picture	Req/Opt/Cond	Description
70-78	Unique Item Sequence Number	9(09)	R	Item Sequence Number (ISN or INF Number)
79-79	Addenda Record Flag	9(01)	R	Indicates whether this record has supporting information located in an addenda detail record.
80-94	Trace Number	9(15)	R	This field is composed of the eight digit routing/transit number of the origination DI combined with a seven digit sequential number assigned to each item in the file. The format is RRRRTTTTSSSSSSS.

Account Totals (Detail level) Record				
Position	Field Name	Picture	Req/Opt/Cond	Description
01-01	Record Type Code	9(01)	R	Record type identifier
02-03	Transaction Code	9(02)	R	Record type transaction code
04-12	Receiving ABA	9(09)	R	Receiving institution Routing/Transit number
13-29	Key Account / Low Account in Range	X(17)	R	Key Account number or Low Account in Key Account Range.
30-41	Total Amount for Key Account / Account Range	9(12)	R	Sum total of amounts on all items belonging to the Key Account or Account Range.
42-58	High Account in Account Range	9(17)	R	High Account in Key Account Range (for specific Key Account has same value as Low Account number).
59-73	Low Auxiliary On-Us	9(15)	C	For a specific Key Account, Low Auxiliary On-Us range value.
74-88	High Auxiliary On-Us	9(04)	C	For a specific Key Account, High Auxiliary On-Us range value.
89-94	Total Item Count	9(12)	R	Total number of items belonging to the Key Account or Account Range.

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Bundle Total Record				
Position	Field Name	Picture	Req/Opt/Con d	Description
01-01	Record Type Code	9(01)	R	Record type identifier
02-03	Transaction Code	9(02)	R	Record type transaction code
04-12	Receiving ABA	9(09)	R	Receiving institution Routing/Transit number
13-29	Filler	X(17)	O	Filler area
30-32	Bundle Number	9(03)	R	Sequential bundle number (001-999) within an Entry/Block of work.
33-36	Item Count	9(04)	R	The number of items contained in this bundle.
37-40	Block Number	9(04)	R	The four digit tray number.
41-44	Key Block Number	9(04)	R	The four digit block number.
45-56	Bundle Amount	9(12)	R	Total dollar amount of the items in this bundle.
57-79	Filler	X(23)	O	Filler area.
80-94	Trace Number	9(15)	R	The 15 digit trace number that may contain any number used for identifying the location of this bundle in a data base for audit purposes.

Commingle Detail Record				
Position	Field Name	Picture	Req/Opt/Co nd	Description
01-01	Record Type Code	9(01)	R	Record type identifier
02-03	Transaction Code	9(02)	R	Record type transaction code
04-11	Routing/Transit No.	9(08)	R	The Routing/Transit number used to identify the total dollars accumulated for all detail items associated with this commingled DI's R/T.
12-12	Check Digit	9(01)	R	Check Digit of the above routing/transit number.
13-27	Filler	X(15)	O	Filler area.
28-39	Aggregate Total	9(12)	R	Total amount of all the items in the file which have been accumulated for the above routing/transit number.

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Position	Field Name	Picture	Req/Opt/Cond	Description
40-45	Number of Items	9(06)	R	Total number of items in the file which are accumulated for the above routing/transit number.
46-94	Filler	X(49)	O	Filler area.

Batch Control Record				
Position	Field Name	Picture	Req/Opt/Cond	Description
01-01	Record Type Code	9(01)	R	Record type identifier
02-04	Service Class Code	9(03)	R	Service Class
05-10	Detail Item Count	9(06)	R	Total count of the item detail records in the batch.
11-20	Filler	9(10)	O	Filler area.
21-32	Total Dollar Amount (Debits)	9(12)	R	Total Dollar amount of the debits contained in this batch of details.
33-44	Total Dollar Amount (Credits)	9(12)	O	This is a reserved field not used by MICR Capture.
45-69	Contact Name	X(25)	O	This is a reserved field not used by MICR Capture.
70-79	Contact Phone Number	9(10)	O	This is a reserved field not used by MICR Capture.
80-88	Originating ABA	9(09)	R	Originating institution (FRB Office) Routing/Transit number that processed items.
89-94	Filler	X(06)	O	Filler area.

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File Control Record				
Position	Field Name	Picture	Req/Opt/Con d	Description
01-01	Record Type Code	9(01)	R	Record type identifier
02-07	Batch Count	9(06)	R	The total number of batches in this file.
08-13	Block Count	9(06)	R	The number of blocks in the file, including all control, detail and filler records (file is blocked 10).
14-21	Detail Count	9(08)	R	The total number of detail records in the file.
22-31	Hash Total of ABA's	9(10)	R	The routing/transit number in each detail entry is hashed to provide a check against inadvertent alteration of data contents due to hardware failure or program error.
32-43	Total Dollar Amount (Debits)	9(12)	R	The total dollar amount of all debits item records contained in the file.
44-94	Filler	X(51)	O	Filler area.

Note: The Attachments are provided as references. Financial Institutions were previously notified of any changes that may affect their institutions regarding file formats and Bulkdata Appl IDs.

Attachment 5: Cash Letter Autocharge Debits Interface File Format

The standard check software suite generates two files for interfacing into local District systems (i.e., voice response, etc). These are Cash Letter Autocharge Debits and Cash Letter Available Credits (next page). The file format for Cash Letter Autocharge Debits is provided below. In both cases, a file can either contain records for ‘Forward’ OR ‘Returns’ transactions, not both. Files are generated by office, i.e., files do not contain data for multiple offices.

Cash Letter Autocharge Debits Interface File					
[Record Size = 50]					
Position	Field Name	Picture	Req / Opt / Cond	Description	Edits / Values
001 – 006	Process Date	X(006)	R	CLS Process Date (YYMMDD format)	Date from CLS IMS database
007 – 015	Correspondent ABA	9(009)	R	9 digit ABA for a bank that takes settlements for other respondent banks ; The check digit can be auto-generated	- Has to be declared on CLS Name and Address - Check Digit validated Also, - Autocharge Debit or Credit segment set to yes - Voice Flag set to a Y
016 – 024	Respondent ABA	9(009)	R	9 digit ABA of the respondent bank. The check digit can be auto-generated	- Has to be declared on CLS Name and Address - Check Digit validated
025 – 032	Forward Amount	S9(013)V99 COMP-3	C	Transaction dollar amount	Numeric check
033 – 040	Return Amount	S9(013)V99 COMP-3	C		Numeric check
041 – 041	Work Type	X(001)	R	Defines the type of work that was processed	C = City N = Country R = Regional
042 – 042	Office	9(001)	R	Defines the Office within a District	1-9
043 – 050	Filler	X(008)	R	Reserved for future use	None

Note: The Attachments are provided as references. Financial Institutions were previously notified of any changes that may affect their institutions regarding file formats and Bulkdata Appl IDs.

Attachment 6: Cash Letter Available Credits Interface File Format

The standard check software suite generates two files for interfacing into local District systems (i.e., voice response, etc). These are Cash Letter Autocharge Debits (previous page) and Cash Letter Available Credits. The file format for Cash Letter Available Credits is provided below. In both cases, a file can either contain records for ‘Forward’ OR ‘Returns’ transactions, not both. Files are generated by office, i.e., files do not contain data for multiple offices.

Cash Letter Available Credits Interface File [Record Size = 54]					
Position	Field Name	Picture	Req / Opt / Cond	Description	Edits / Values
001 – 006	Process Date	X(006)	R	CLS Process Date (YYMMDD format)	Date from CLS IMS database
007 – 015	Correspondent ABA	9(009)	R	9 digit ABA for a bank that takes settlements for other respondent banks ; The check digit can be auto-generated	- Has to be declared on CLS Name and Address - Check Digit validated Also, - Autocharge Debit or Credit segment set to yes - Voice Flag set to a Y
016 – 024	Respondent ABA	9(009)	R	9 digit ABA of the respondent bank. The check digit can be auto-generated	- Has to be declared on CLS Name and Address - Check Digit validated
025 – 025	Office	9(001)	R	Defines the Office within a District	1-9
026 – 026	Forward-Return Flag	X(001)	R	Flag indicating whether for a forward or returns transaction	F = Forward R = Returns
027 – 033	Immediate Amount	S9(011)V99 COMP-3	C	Amount available immediately	Numeric Edit
034 – 040	Day 1 Amount	S9(011)V99 COMP-3	C	Amount available after 1 day	Numeric Edit
041 – 047	Day 2 Amount	S9(011)V99 COMP-3	C	Amount available after 2 days	Numeric Edit
048 – 054	Day 3 Amount	S9(011)V99 COMP-3	C	Amount available after 3 days	Numeric Edit