

SERVICE FEES OVERVIEW

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1.0 **BACKGROUND**

ATPCO provides an online data entry system for coding Service Fees, currently limited to Carrier-Imposed (YQ/YR) Fees, Ticketing charges, Optional Services, Branded Fares and Baggage. These are housed in an ATPCO data base and are available as a subscription product.

Customers will have the option to receive Carrier-Imposed (YQ/YR) Fees only, Ticketing Fees only, Optional Services only, Branded Fares only, Baggage only, all five products, or any combination.

Customers subscribing to Carrier-Imposed (YQ/YR) Fees product only will receive:

- Header record for Carrier-Imposed (YQ/YR) Fees (SER)
- Record S1 – Carrier-Imposed (YQ/YR) Fees record
- Record S2 – Carrier-Imposed (YQ/YR) Concurring record
- Record 3 Service Fees 100 series data tables
 - Table 178 User Zone
 - Table 186 Carrier/Flight
 - Table 190 Carrier Application
 - Table 196 Notes Text

Customers subscribing to Ticketing Fees product only will receive:

- Header record for Ticketing Fees (TKT)
- Record S4 – Ticketing Fees record
- Record 3 Service Fees 100 series data tables
 - Table 172 Account Code
 - Table 173 Ticket Designator
 - Table 178 User Zone
 - Table 183 Security

Customers subscribing to Optional Services product only will receive:

- Header record for Optional Services (OPT)
- Record S5 – Services record (Service Types F, T, R, Z and M)

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- Record S6 – Concurrence record (Service Types F, T, R and M)
- Record S7 – Provisions record (Service Types F, T, R and M)
- Record 3 Service Fees 100 series data tables
 - Table 165 Equipment Type
 - Table 170 Currency
 - Table 171 Carrier/Resulting Fare Class
 - Table 172 Account Code
 - Table 173 Ticket Designator
 - Table 178 User Zone
 - Table 183 Security
 - Table 186 Carrier/Flight
 - Table 191 Seat Characteristic Table*
 - Table 196 Notes Text
 - Table 198 RBD

Customers subscribing to the Baggage product only will receive:

- Header record for Optional Services (OPT)
- Record S5 – Services Record (Service Types A, B, C, E, and P)
- Record S7 – Provisions record (Service Types A, B, C, E and P)
- Record 3 Service Fees 100 series data tables
 - Table 165 Equipment Type
 - Table 170 Currency
 - Table 171 Carrier/Resulting Fare Class
 - Table 172 Account Code
 - Table 173 Ticket Designator
 - Table 178 User Zone
 - Table 183 Security
 - Table 186 Carrier/Flight
 - Table 191 Seat Characteristic Table*
 - Table 196 Notes Text
 - Table 198 RBD

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*Note: The Seat Characteristic Table (191) is only applicable for the Optional Service product where the Record S5 Group value is SA or in a bundled service that includes a Pre-Reserved Seat Assignment Sub Code (one that contains a Record S5 Group value of SA). This table will be received by customers subscribing to the Baggage product, but will not be used. All baggage S7 records will be received with value 00000000 in bytes 321-328.

Customers subscribing to Branded Fares product only will receive:

- Header record for Branded Fares (BFR)
- Record S8 –Branded Fares Record
- Record 3 Service Fees 100 series data tables
 - Table 166 Features
 - Table 172 Account Code
 - Table 178 User Zone
 - Table 183 Security
 - Table 189 Fare Identification
 - Table 196 Notes Text

Customers subscribing to all Service Fees products will receive four separate files, one for Carrier-Imposed (YQ/YR) Fees, one for Ticketing Fees, one for Optional Services and Baggage and one for Branded Fares.

Tables 165, 170, 171, and 191 are tables created specifically for the Optional Services and Baggage products. Tables 166 and 189 are tables created specifically for the Branded Fares project. There are 100 Series Tables that are shared across products. Tables 172 and 183 are shared by Ticketing Fees, Optional Services, Baggage and Branded Fares products. Table 186 is shared with Carrier-Imposed (YQ/YR) Fees, Optional Services and Baggage products. Table 196 is shared with Carrier-Imposed (YQ/YR) Fees, Optional Services, Baggage and Branded Fares products. Table 173 is shared by the Ticketing Fees and Optional Services Products. Table 178 data is shared by all products. Therefore, in subscriptions, the data content for these tables will be transmitted in multiple or all products. Subscribers should ignore duplicate data sent by ATPCO for any of these table entries.

Data will be distributed in subscriptions as a separate Services product, unrelated to any current ATPCO products, but available in the same subscription cycles as Passenger International Subscription products. The product will be available as an unpacked product only and will be available as both on-request all-adds and scheduled changes.

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2.0 DEFINITIONS AND ASSUMPTIONS

2.1 *Definitions*

<i>Marketing Carrier</i>	The carrier code that will appear on the flight coupon of the ticket (different from operating carrier for code share). The Marketing Carrier may be a primary and/or secondary carrier.
<i>S1</i>	Carrier-Imposed (YQ/YR) Fees, Marketing Carrier based, used to specify charges to be collected for the Marketing carriers within an itinerary.
<i>S2</i>	Validating Carrier based Service Fees record used to identify other airline Marketing carriers for whom the validating carrier concurs to the collecting fees as identified in the marketing carrier's Record S1 Service Fees.
<i>S4</i>	Ticketing Fee Service Fees record, Validating Carrier based, used to specify ticketing and/or booking fee charges to be collected.
<i>S5</i>	Sub Code Services record, used to provide basic information regarding an Optional Service in terms of who owns the service, the service description, and messaging, ticketing and booking requirements. This record defines the service associated to a specific Sub Code by identifying the Attributes: high-level Group Code as well as a specific Sub Group and/or Description(s) that further classify the service.
<i>S6</i>	Optional Services Concurrence record, specifies concurrence agreements for flight-related and fare-related (rule override) services. The Concurrence record is processed to determine an operating or marketing carrier's concurrence to another operating and/or marketing carrier's Optional Service.
<i>S7</i>	Optional Services Provisions record, specifies the travel, passenger, geographic, carrier, flight, fare, and sales requirements for each specific service as well as any fees and applicable rule validation (such as for fare-related services) associated to the service.

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<i>S8</i>	Branded Fares record, identifies a carrier program and the brands that are included in that program.
<i>Significant / Primary Carrier</i>	The marketing carrier on the governing or primary sector of a fare component
<i>Validating Carrier</i>	The carrier whose ticket stock was used to issue the ticket (plating carrier). This carrier is commonly the holder of the money for the ticket.

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3.0 DATA MAINTENANCE

The Service Fees product does not employ the use of action codes to specify update for any records. Presence of data that matches the key of the subscription record identifies if this is an “add” or a “change”. Processing will determine a record is an add or a change by attempting to match key data to existing data on the subscriber data base that has life during the effectiveness of the new record (that is, where the discontinue date of the matched data is greater than the effective date of the transmitted record).

Initial all-adds process should process the file as all “add” records.

Key fields for Services Records for matching for data base maintenance are as follows:

- S1 – Record Type (S1), Marketing Carrier, Service Type Code, Sequence Number
- S2 – Record Type (S2), Validating Carrier
- S4 – Record Type (S4), Validating Carrier, Service Type Code, Sequence Number
- S5 – Record Type (S5), Carrier/Vendor, Service Code, Sub Code, Service Type
- S6 – Record Type (S6), Carrier, Sequence Number
- S7 – Record Type (S7), Carrier/Vendor, Service Type Code, Sub Code, Service Type, Sequence Number
- S8- Record Type (S8), Carrier, Source, Sequence Number

Cancels will be sent with a discontinue date in the record and may or may/not be a no life record. Normal change processing will accommodate cancels.

For the Carrier-Imposed (YQ/YR) Fees and Ticketing Fees products online edits restrict the use of effective date of today (EDOT); all effective dates will be next day or later.

NOTE: Currently data can be coded and released at a later date. This will allow the effective date to be prior to receipt of data. ATPCO has implemented an S1 coding convention to make the effective date of the record current date plus 7 days to allow for review and release.

Processing

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- Header Record – Identifies the file as Carrier-Imposed (YQ/YR) Fees (SER), Ticketing Fees (TKT), Optional Services (OPT) or Branded Fares (BFR); changes/all-adds; pull date and time; and the number of records in the file. For an all-adds the subscriber should delete all current/future records before processing the file. The subscriber should maintain history as necessary for their own historical requirements. When there are no changes for a scheduled transmission the file will contain a header record with a record count of zero.
- S1 Record – S1 Travel dates are the effective / discontinue dates for this record. Change file transactions will require that the subscriber check for S1 Records on their data base that match the key of the S1 transaction record (Carrier Code / Service Type / Sequence number). If a record is not found, the new record will be added to the subscriber data base. If a record is found, the subscriber updates the discontinue date of their existing S1 data with the effective date of the new record minus one. This is done for all records that match the key of the S1 transaction record and that also have a discontinue date that is greater than or equal to the effective date of the new record (including infinity, which is represented by 99999). The subscriber will then insert the new S1 Record on the data base.
- S2 Record – Dates on the S2 record are maintenance dates only. Change file transactions will require that the subscriber check for S2 Records on their data base that match the key of the S2 transaction record (Carrier Code). If a record is not found, the S2 will be added to the subscriber data base. If a record is found, the subscriber updates the discontinue date of their existing S2 data records with the effective date of the new record minus one. This is done for all S2 Records that match the key of the record and that also have a discontinue date that is greater than or equal to the effective date of the new record (including infinity, which is represented by 99999). The subscriber will then insert the new S2 Record on the data base.
- Record 3 data for User Created Zone Table (178), Carrier / Flight Table (186), Carrier Application Table (190), Text Table (196) are processed in the same manner as Record 3 data in the Automated Rules Subscription product. These tables follow the format of their counterpart 900 tables in the Automated Rules system, but are a separate product. Future developments may not maintain format alignment. Record 3 data for Security (183) is similar to Table 983, but has some unique processing. New tables have been added for Equipment (165), Features (166), Currency (170), Carrier/Resulting Fare Class (171), Account Codes (172), Ticket Designator (173), Fare Identification (189), Seat Characteristic (191), and RBD (198).

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- S4 Record – S4 Travel dates are the effective / discontinue dates for this record. Change file transactions will require that the subscriber check for S4 Records on their data base that match the key of the S4 transaction record (Carrier Code / Service Type / Sequence number). If a record is not found, the new record will be added to the subscriber data base. If a record is found, the subscriber updates the discontinue date of their existing S4 data with the effective date of the new record minus one. This is done for all records that match the key of the S4 transaction record and that also have a discontinue date that is greater than or equal to the effective date of the new record (including infinity, which is represented by 99999). The subscriber will then insert the new S4 Record on the data base.
- S5 Record – S5 Maintenance dates are the effective / discontinue dates for this record. They define the first/last date the data in the record may be booked/ticketed/sold. Change file transactions will require that the subscriber check for S5 Records on their data base that match the key of the S5 transaction record (Carrier/Vendor, Service Code, Sub Code, Service Type). If a record is not found, the Record S5 will be added to the subscriber data base. If a record is found, the subscriber updates the discontinue date of their existing S5 data records with the effective date of the new record minus one. This is done for all S5 Records that match the key of the record and that also have a discontinue date that is greater than or equal to the effective date of the new record (including infinity, which is represented by 99999). The subscriber will then insert the new S5 Record on the data base.
- S6 Record – S6 Travel dates are the effective / discontinue dates for this record. Change file transactions will require that the subscriber check for S6 Records on their data base that match the key of the S6 transaction record (Carrier Code / Sequence number). If a record is not found, the new record will be added to the subscriber data base. If a record is found, the subscriber updates the discontinue date of their existing S6 data with the effective date of the new record minus one. This is done for all records that match the key of the S6 transaction record and that also have a discontinue date that is greater than or equal to the effective date of the new record (including infinity, which is represented by 99999). The subscriber will then insert the new S6 Record on the data base.
- S7 Record – S7 Ticket/Travel dates are the effective / discontinue dates for this record. Change file transactions will require that the subscriber check for S7 Records on their data base that match the key of the S7 transaction Record (Carrier Code / Service Type /Service Type Code/ Sub Code/ Sequence number). If a record is not found, the new record will be added to the subscriber data base. If a record is found, the subscriber updates the discontinue date of their existing S7 data with the effective date of the new record minus one. This is done for all records that match the key of the S7 transaction record and that also have a discontinue date that is greater than or

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equal to the effective date of the new record (including infinity, which is represented by 99999). The subscriber will then insert the new S7 Record on the data base.

- S8 Record – S8 Sale/Display dates are the effective / discontinue dates for this record. Change file transactions will require that the subscriber check for S8 Records on their data base that match the key of the S8 transaction record (Carrier Code / Source / Sequence number). If a record is not found, the new record will be added to the subscriber data base. If a record is found, the subscriber updates the discontinue date of their existing S8 data with the effective date of the new record minus one. This is done for all records that match the key of the S8 transaction record and that also have a discontinue date that is greater than or equal to the effective date of the new record (including infinity, which is represented by 99999). The subscriber will then insert the new S8 Record on the data base.

4.0 PROCESSING

NOTE: The following section applies to Carrier-Imposed (YQ/YR) Fees and Ticketing Fees products. See Section 4.2 for processing Optional Services and Section 4.3 for processing Branded Fares.

4.1 *Determining Validating Carrier*

When tickets are issued by an airline, the validating carrier is static; that is, it is always either the airline driving the ticket or, in rare cases (such as when the issuing airline has no three-digit numeric airline code or when an airline agrees to its partner airline's code in some parts of the world), it is the airline that has agreed to perform the revenue accounting and settlement for the airline issuing the tickets. When tickets are issued by a brick and mortar or internet travel agency, the validating carrier may always be specified to the pricing/ticketing system by the travel agency or software employed by the travel agency, in accordance with IATA Reso 852 or other applicable industry regulations. This logic is not intended to supplant or in any way modify such industry regulations and never selects a validating carrier that would not be a valid choice per IATA Reso 852. In cases where the travel agency or software employed by the travel agency chooses not to specify the validating carrier to the pricing/ticketing system, the validating carrier will be selected using the following logic:

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The logic selects the validating carrier from among the carrier(s) associated with the most significant sector on the qualifying portion of travel. Carriers associated with a sector may include marketing carrier, carrier nominated as validating carrier by the marketing carrier, etc. The following sectors are **not** included in the qualifying portion of the ticketed journey:

- surface sectors
- open sectors specifying carrier YY
- sectors for which there no associated carriers that are eligible to act as validating carrier based on such considerations as participation in the settlement plan in the country of ticketing, travel agency plating authorization, required ticketing agreements with the other carriers on the journey, etc.

Apply the following steps to the qualifying portion of the ticketed journey to determine the sector to use for validating carrier selection:

1. If the qualifying portion of the ticketed journey contains no sectors that depart from one country and arrive at another country then the choice of validating carrier is based upon the first sector of the qualifying portion of the ticketed journey.
2. Otherwise, if the qualifying portion of the ticketed journey contains no sectors that cross IATA Sub-areas, then the choice of validating carrier is based upon the first international sector of the qualifying portion of the ticketed journey. **Note: only those IATA Sub-areas that are defined as list of countries are considered. IATA Sub-areas that are defined as *between other IATA Sub-areas, TC areas, and/or other groups do not apply.***
3. Otherwise, if the qualifying portion of the ticketed journey contains no sectors that cross TC areas, then the choice of validating carrier is based upon the first sector of the qualifying portion of the ticketed journey that crosses IATA Sub-areas.
4. Otherwise, if the sum of all of the TC crossings on the qualifying portion of the ticketed journey encompasses exactly two TC areas, then the choice of validating carrier is based upon the first sector of the qualifying portion of the ticketed journey that crosses TC areas.
5. Otherwise (the sum of all of the TC crossings on the qualifying portion of the ticketed journey encompasses all three TC areas, such as “around-the-world” journeys):
 - i. If the first two crossings of TC areas on the qualifying portion of the ticketed journey are between TC3 and TC2 and between TC2 and TC1, then the choice of validating carrier is based upon the first sector of the qualifying portion of the ticketed journey that crosses between TC2 and TC1.
 - ii. If the first two crossings of TC areas on the qualifying portion of the ticketed journey are **not** between TC3 and TC2 and between TC2 and TC1, then the choice of validating carrier is based upon the first sector of the qualifying portion of the ticketed journey that crosses TC areas.

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Once a sector is selected using Steps 1-5 above, the validating carrier is selected from among the carriers associated with that sector (marketing carrier, carrier(s) nominated as validating carrier by the marketing carrier, etc.) based on the eligibility of and agreements between the carriers associated with the sector.

Note 1: For the purposes of determining the sector to use for validating carrier selection:

1. USA and Canada are always considered one country.
2. When the qualifying portion of the ticketed journey contains points in two or more of Denmark, Norway and Sweden and no other country, Denmark, Norway and Sweden are treated as separate countries.
3. When the qualifying portion of the ticketed itinerary contains points in two or more of Denmark, Norway and Sweden as well as in at least one other country, Denmark, Norway and Sweden are treated as one country.

Note 2: This logic expressly does not override any applicable ATPCO Category 15 or 35 validating carrier requirements. It does not release travel agencies from their responsibility to choose a specific validating carrier when the negotiated fare being used contractually obligates the travel agent to do so, even when the validating carrier selection logic would have chosen a different validating carrier.

Note 3: The validating carrier selection logic applies to original issue tickets only.

Note 4: The reference data necessary for the automation of all of the ticketing agreements mentioned above (carrier nominated as validating carrier by the marketing carrier, participation in the settlement plan in the country of ticketing, travel agency plating authorization, and ticketing agreements with other carriers on the journey) is not held by ATPCO. There is currently no industry standard for this data. As a result the selection of the validating carrier may vary by pricing system due to differences in this reference data.

Again, this validating carrier selection logic does not apply when the validating carrier is identified to the ticketing/pricing system, such as when the travel agency or software employed by the travel agency specifies the validating carrier or when ticketing takes place at an airline. The logic is not intended to in any way modify or supplant IATA Reso 852 or any other relevant industry regulation.

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4.2 Processing Optional Services and Baggage

Processing Optional Services and Baggage varies depending upon whether the service is Flight Related, Rule Buster Service, Ticket Related, Merchandise, Baggage Allowance and Baggage Charges (as specified in Record S5 Service Type field byte 21) and may vary depending upon whether systems are interrogating the Optional Services records for pricing or display purposes.

Flight Related vs. Rule Buster Service vs. Ticket Related vs. Merchandise Services vs. Branded Fares Only vs. Baggage Allowance vs. Baggage Charges vs. Carry-on Baggage Allowance vs Embargoes vs. Prepaid Baggage

The Record S5 – Sub Code Services Record specifies whether the service is Flight Related, Fare Related Service, Ticket Related, Merchandise, Branded Fares Only, Baggage Allowance, Baggage Charges, Carry-on Baggage Allowance, Embargoes, or Prepaid Baggage. Data in this field applies as either match data or action data depending upon how much information is known up-front prior to processing the optional service.

- If the system knows it only wants to interrogate flight related services (e.g. to display/sell based on a specific itinerary) that are not Fare Related Services, then
 - All marketing and operating carriers on the ticket for that portion of travel are candidate carriers for Optional Services processing.
 - Processing should only interrogate Record S5 data for the candidate carriers and only records that have Service Type byte 21 value F.
- If the system knows it only wants to interrogate Rule Buster Services (e.g. to display/sell based on a specific itinerary once fares are known), then
 - The fare owning carriers for each fare component on the ticket are candidate carriers for Optional Services processing.
 - Processing should only interrogate Record S5 data for the candidate carriers and only records that have Service Type byte 21 value R.
- If the system knows it only wants to interrogate ticket related services (e.g. to display/sell based on a specific ticket), then
 - All marketing and operating carriers on the ticket and the validating carrier of the passenger's ticket are candidate carriers for Optional Services processing
 - Processing should only interrogate Record S5 data for the candidate carriers and only records that have Service Type byte 21 value T.
- If the system knows it only wants to interrogate merchandise services (services that are not dependent upon specific travel and/or a specific ticket e.g. to display/sell other services offered by a carrier), then
 - All carriers in the system are candidate carriers for Optional Services processing
 - Processing should interrogate Record S5 data for all carriers and only records that have Service Type byte 21 value M

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- If the system knows it only wants to interrogate Branded Fares Only (services that are listed solely for use in the Branded Fares product S8 Record)
 - The marketing carrier for the service feature in the brand being processed
 - Processing should interrogate Record S5 data for the marketing carrier and only records that have Service Type byte 21 value Z
- If the system knows it only wants to interrogate baggage allowance, baggage charges, carry-on baggage allowance, embargoes and/or prepaid baggage related services (e.g. display/sell based on a specific itinerary), then
 - All marketing and operating carriers on the ticket are candidate carriers for Optional Services processing.
 - Processing should only interrogate Record S5 data for the candidate carriers and only records that have Service Type byte 21 values A, B C, E or P.
- If the system wants to interrogate all services, then
 - All carriers ,in the system are candidate carriers for Optional Services processing
 - Processing should interrogate Record S5 data for all carriers regardless of the value in Service Type byte 21. Data in bytes 65 will direct processing to the applicable path for applying the Optional Services data (e.g. to use the processing defined for Flight Related Services, Rule Buster Services, Ticket Related Services, Merchandise, Branded Fares Only, Baggage Allowance, Baggage Charges, Carry-on Baggae Allowance, Embargoes, or Prepaid Baggage.).

Processing must first match an applicable Record S5 in order to ascertain whether a service is offered and what are the applicable concurrence requirements for the service. The processing of the Records S6 and S7 are dependent upon the data in Record S5.

Optional Services Pricing vs. Display

Essentially, the processing of the Optional Services records is the same for pricing and display. However, it is possible that when interrogating the records for display purposes, processing may need to skip some processing steps, multiple match records, and/or assume a conditional match/pass of the data if all necessary information (e.g. itinerary data, passenger status, etc.) is not known at the time of display. Regardless of whether all information is or is not known at the time of display, processing must “re-price” all applicable Optional Services Records at the time of pricing.

When processing Optional Services records for display purposes, it is not required to process availability prior to displaying the services that are offered. Record S7 will specify whether or not an availability check is required when pricing the service.

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4.3 Processing Branded Fares

Processing will attempt to match a Record S8 based on the match fields identified. If a match is made to a Record S8, processing continues by identifying the brands and associated fares and features. If a match is not made to a Record S8, then branded fares are not applicable to the criteria being processed.

Record S8 can be used by systems during multiple stages in branded fares processing. Systems can use the data in Record (at a minimum) to perform the following functions:

- Identify all brands offered by a carrier within the match criteria on the Record S8
- Identify the brand in which a fare is applicable
- Identify the brand's rank in relation to other brands within a program
- Identify features (Optional Services) applicable to a brand
- Support shopping by brand
- Support shopping by features

Optional Services Records S5 (Sub Code Record) and S7 (Provisions) are necessary to identify/define the services (features) and any associated fees and requirements for the brands identified in the Record S8. Optional Services Record S6 (Concurrence) is necessary for certain types of services (depending upon the carrier owning the service) to verify concurrence for the service. Refer to data application documentation for Optional Services records for further information.

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5.0 **EXAMPLES**

NOTE: All examples utilize S1 for illustrative purposes. Date logic is the same for all services record types and processing should attempt to match to the key of the record to perform the update.

Examples are intended to support processing described in section *3.0 Data Maintenance*.

5.1 **Data base update – New Record**

EXAMPLE 1 – No Match to Key

Current data base:

S1 XX YQ F 00010000 23JAN06-OPEN

Transaction record (Sent 30JAN06):

S1 XX YQ F 00020000 31JAN06-OPEN

Resulting data:

S1 XX YQ F 00010000 23JAN06-OPEN

S1 XX YQ F 00020000 31JAN06-OPEN

EXAMPLE 2 – Match to Key – No overlap of effectiveness

Current data base:

S1 XX YQ F 00010000 23DEC05-31DEC05

S1 XX YQ F 00010000 01JAN06-31DEC05

Transaction record (Sent 30JAN06):

S1 XX YQ F 00010000 31JAN06-OPEN

Resulting data:

S1 XX YQ F 00010000 23DEC05-31DEC05

S1 XX YQ F 00010000 01JAN06-31DEC05

S1 XX YQ F 00010000 31JAN06-OPEN

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5.2 *Data base update – Change Record*

EXAMPLE 1 – Match to Key

Current data base:

S1 XX YQ F 00010000 23JAN06-OPEN

Transaction record (Sent 30JAN06):

S1 XX YQ F 00010000 31JAN06-OPEN

Resulting data:

S1 XX YQ F 00010000 23JAN06-30JAN06

S1 XX YQ F 00010000 31JAN06-OPEN

EXAMPLE 2 – Match to Key – Open up a cancelled record

Current data base:

S1 XX YQ F 00010000 23DEC05-31JAN06

S1 XX YQ F 00010000 01FEB06-31JAN06

Transaction record (Sent 30JAN06):

S1 XX YQ F 00010000 31JAN06-OPEN

Resulting data:

S1 XX YQ F 00010000 23DEC05-30JAN06

S1 XX YQ F 00010000 01FEB06-30JAN06

S1 XX YQ F 00010000 31JAN06-OPEN

5.3 *Data base update – Cancel a record*

EXAMPLE 1 – Match to Key

Current data base:

S1 XX YQ F 00010000 23JAN06-OPEN

Transaction record (Sent 30JAN06):

S1 XX YQ F 00010000 31JAN06-30JAN06

Resulting data:

S1 XX YQ F 00010000 23JAN06-30JAN06

S1 XX YQ F 00010000 31JAN06-30JAN06

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EXAMPLE 2 –Match to Key – Open up a cancelled record

Current data base:

S1 XX YQ F 00010000 23DEC05-31JAN06

S1 XX YQ F 00010000 01FEB06-31JAN06

Transaction record (Sent 30JAN06):

S1 XX YQ F 00010000 31JAN06-OPEN

Resulting data:

S1 XX YQ F 00010000 23DEC05-30JAN06

S1 XX YQ F 00010000 01FEB06-30JAN06

S1 XX YQ F 00010000 31JAN06-OPEN

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6.0 SUBS PRODUCT DATE RECONCILIATION

Date reconciliation for subscriptions is required when a sequence includes incomplete segments along with completed segments eligible for subs extraction. Dates must be adjusted to mitigate the incomplete segment. For subscription file when the last segment is complete/distributed do not adjust the previous discontinue dates, when the last segment is Incomplete adjust the previous discontinue dates appropriately based on the action and date (based on non-EDOT or EDOT of the last segment driving the change).

Examples follow:

Single completed segment followed by an incomplete segment

A sequence is created by a batch JB25 and the batch released (status=Completed).

SEQ#	FRST_SALE_DT	LAST_SALE_DT	Batch	Batch_Status	Fee
100000	02/15/2007	12/31/9999	JB25	C	\$5

Then the sequence is updated by an incomplete batch JB26 before the subs pull.

SEQ#	FRST_SALE_DT	LAST_SALE_DT	Batch	Batch_Status	Fee
100000	02/15/2007	03/11/2007	JB25	C	\$5
100000	03/12/2007	12/31/9999	JB26	I	\$6

During subs only the completed segments are extracted. In this example, we do not send 03/11/2007 as the discontinue date in subs, we send an open ended date of 999999 to the subscriber as shown below.

JB25 Release

Out to subs --> 070215999999

EDOT Effect: No effect of EDOT in case of single completed segment. The discontinued date continues to be sent as as open ended

SERVICE FEES OVERVIEW

Multiple completed segments followed by incomplete segment

If there are multiple completed segments followed by an incomplete segment, it will be handled exactly like the previous example of one completed segment followed by an incomplete segment. The last completed segment's discontinue date will be sent out as 999999 and the rest will be sent as they are.

EDOT Effect: For completed EDOT segments older than the newest completed segment, the discontinue date of each is set to the Effective date of the next (newer) segment.

Non-EDOT Example – Today is earlier than 03/12/2007

SEQ#	FRST_SALE_DT	LAST_SALE_DT	BATCH	BATCH_STATUS	Fee
150000	03/12/2007	03/23/2007	RC98	C	\$5
150000	03/24/2007	04/12/2007	RC98	C	\$6
150000	04/13/2007	04/20/2007	RC98	C	\$7
150000	04/21/2007	05/16/2007	RC98	C	\$8
150000	05/17/2007	12/31/9999	RC99	I	\$9

RC98 Release

Out to subs --> 070312070323
 070324070412
 070413070420
 070421999999

EDOT Example Today is 04/21/2007

SEQ#	FRST_SALE_DT	LAST_SALE_DT	BATCH	BATCH_STATUS	Fee	EDOT
150000	03/12/2007	03/23/2007	RC98		\$5	
150000	03/24/2007	04/13/2007	RC99		\$6	
150000	04/13/2007	04/21/2007	RC100		\$7	Y
150000	04/21/2007	05/16/2007	RC101	C	\$8	Y
150000	05/17/2007	12/31/9999	RC102	I	\$9	

SERVICE FEES OVERVIEW

RC101 Release

Out to subs --> 070421999999

Advance action on an incomplete segment following completed segments

There are multiple completed segments followed by an incomplete segment.

Non-EDOT Example Today is earlier than 03/12/2007

Before update

SEQ#	FRST_SALE_DT	LAST_SALE_DT	BATCH	BATCH_STATUS	Fee
150000	03/12/2007	03/23/2007	RC98	C	\$5
150000	03/24/2007	04/12/2007	RC98	C	\$6
150000	04/13/2007	04/20/2007	RC98	C	\$7
150000	04/21/2007	05/16/2007	RC98	C	\$8
150000	05/17/2007	12/31/9999	RC99	I	\$9

Incomplete segment's effective date is advanced to 07APR from 17MAY.

After update

SEQ#	FRST_SALE_DT	LAST_DISC_DT	BATCH	BATCH_STATUS	Fee	
150000	03/12/2007	03/23/2007	RC98	C	\$5	
150000	03/24/2007	04/06/2007	RC98	C	\$6	
150000	04/13/2007	04/06/2007	RC98	C	\$7	nolife
150000	04/21/2007	04/06/2007	RC98	C	\$8	nolife
150000	04/07/2007	12/31/9999	RC99	I	\$9	

SERVICE FEES OVERVIEW

Notice how the 3rd and 4th segments with discontinue dates of 16MAY and 20APR have become nolife segments with the new discontinue date set to 06APR. This is done by online date logic and NOT by subs date reconciliation.

When subs executes, it will recalculate each segment's discontinue date to one day less than the next segment's effective date. What goes out in subs is shown below

RC98 Release

Out to subs for RC98 --> 070312070323

070324070412

070413070420

070421999999

RC99 Release

Out to subs for RC99 --> 070407999999

SERVICE FEES OVERVIEW

EDOT Example Today is 04/21/2007

Before Advance

SEQ#	FRST_SALE_DT	LAST_SALE_DT	BATCH	BATCH_STATUS	Fee	Edot
150000	03/12/2007	03/23/2007	RC98		\$5	
150000	03/24/2007	04/12/2007	RC98		\$6	
150000	04/13/2007	04/21/2007	RC99		\$7	
150000	04/21/2007	05/16/2007	RC100	C	\$8	Y
150000	05/17/2007	12/31/9999	RC101	I	\$9	

Incomplete segment's effective date is advanced to 01MAY from 17MAY.

After Advance

SEQ#	FRST_SALE_DT	LAST_DISC_DT	BATCH	BATCH_STATUS	Fee	Edot
150000	03/12/2007	03/23/2007	RC98		\$5	
150000	03/24/2007	04/30/2007	RC98		\$6	
150000	04/13/2007	04/30/2007	RC99		\$7	
150000	04/21/2007	04/30/2007	RC100	C	\$8	Y
150000	05/01/2007	12/31/9999	RC101	I	\$9	nolife

RC100 Release

Out to subs --> 070421999999

SERVICE FEES OVERVIEW

Cancelled segment for a sequence

Each segment's discontinue date is set to one day less than next segment's effective date. The last segment's discontinue date is set to one day less than its own effective date.

Non-EDOT Example Today is earlier than 01/29/2007

SEQ#	FRST_SALE_DT	LAST_SALE_DT	CANCEL_TG	BATCH	BATCH_STATUS
180000	01/29/2007	02/10/2007	N	RC97	C
180000	02/11/2007	02/14/2007	N	RC97	C
180000	02/15/2007	02/14/2007	Y	RC97	C

RC97 Release

Out to subs -->070129070210
 070211070214
 070215070214

In this case, no change is required between the database and what is sent out in subs

EDOT Example Today is 02/15/2007

SEQ#	FRST_SALE_DT	LAST_SALE_DT	CANCEL_TG	BATCH	BATCH_STATUS	Edot
180000	02/15/2007	02/15/2007	N	RC98	C	
180000	02/15/2007	02/15/2007	Y	RC99	C	Y

(Assume RC98 was released earlier in the day)

RC99 Release

Out to subs -->070215070215

Last Segment Preceded by Completed Cancel that is being Postponed

SERVICE FEES OVERVIEW

Assume 07/09 segment was created 07/09 with batch RC98 and released and distributed in subs. On 07/10 RC99 updates the data and then later that same day discontinues the data effective 07/22. Send the last completed segments discontinue date equal to its Effective Date for EDOT and minus 1 day for non-EDOT.

Existing Data

SEQ#	FRST_SALE_DT	LAST_SALE_DT	CANCEL_TG	BATCH	BATCH_STATUS	Edot
180000	07/09/2007	07/10/2007	N	RC98		Y
180000	07/10/2007	07/21/2007	N	RC99	C	Y
180000	07/22/2007	07/21/2007	Y	RC99	C	N

RC99 Release

Out to subs -->070710070721
 070722070721

Assume the next day or after the subs pull for RC99, user postpones discontinued data from 07/22 to 07/30 with a new batch and release RC100

SEQ#	FRST_SALE_DT	LAST_SALE_DT	CANCEL_TG	BATCH	BATCH_STATUS	Edot
180000	07/09/2007	07/10/2007	N	RC98		Y
180000	07/10/2007	07/21/2007	N	RC99		Y
180000	07/22/2007	07/29/2007	Y	RC99		N
180000	07/30/2007	07/29/2007	N	RC100	C	N

RC100 Release

Out to subs -->070730070729