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# GlobalFares™—The Next Generation

*Development Impacts for EDIFACT Select Messages*

FAR Request and Response Version 00.1

LFF Request and Response Version 99.1

ITP Request and Response Version 00.1

**GALILEO**  
INTERNATIONAL™



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## Overview

GlobalFares™—The Next Generation changes some features and functions currently used by EDIFACT Select. This document details the modifications required for EDIFACT Select to accommodate the changes brought by GlobalFares™—the Next Generation.

## GlobalFares™—The Next Generation

GlobalFares™—The Next Generation provides new state-of-the-art capabilities to price and shop for airfares. Travel agents, corporations, and consumers who use Galileo-powered products can benefit from improved capability to price complex itineraries and enhanced ability to shop for the best fare.

The new GlobalFares system is one of the most competitive products in the travel industry, encompassing more features of the Airline Tariff Publishing Company (ATPCO) Automated Rule, Routing, and Footnote products than systems used by any other global distribution service (GDS). The components of the new fares system are being implemented in phases over the coming year. Phase One will be available in the second quarter of 2001 and comprises North American Fare Quote.

### Benefits

The next generation of GlobalFares represents the migration of the current North American Fare Quote system to a fully automated product that has been jointly developed between Galileo International and EDS.

Some of the benefits of the new GlobalFares system are:

- Full implementation of ATPCO Automated Rules, Footnotes, and Routings.
- Faster time to market for new and adjusted fare and fare-related conditions.
- Seamless implementation to the end-user community, including the use of existing Apollo and Galileo formats.
- Rapid development time for new enhancements and industry mandates.

### Background

In July 2000, Galileo International and EDS signed an agreement to jointly develop new state-of-the-art software for use in airfare pricing and shopping. The next generation of GlobalFares provides airlines with a seamless method of distributing airfare information. The new fares system is customized to Galileo's specifications and was completed through a joint effort that leverages EDS's and Galileo's extensive industry knowledge and experience with pricing and reservation system software.

Travel agents, corporations, and consumers using Galileo-powered systems are able to price more complex itineraries and enhance their ability to shop for low airfares. At the same time, Galileo gains more efficient data uploading and processing capabilities. The next generation of GlobalFares is one of the most competitive products in the travel industry, encompassing more features of the Airline Tariff Publishing Company (ATPCO) Automated Rule, Routing, and Footnote products than systems used by any other global distribution service (GDS). Because Galileo International recognizes how quickly the marketplace is changing, the new fare quote system is designed to provide a more rapid response to carrier filings and changes to industry procedures and practices. The new GlobalFares system also offers more consistent processing between North American and International fares. As well as being more flexible and faster to update, the new system provides the following capabilities:

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- Increased support in shopping functions to handle up to 16 flight segments and up to 8 fare components, which allows better handling of complex itineraries.
  - Additional support for ticket designators, endorsement messages, improved surcharges processing, and enhanced rules text information.
  - New shopping functions, including calendar shopping for international itineraries, alternate city functionality, and flexible date ranges.
  - New automated capabilities that are transparent to users, but allow faster updates and more accurate pricing.
  - An automated rules process for ATPCO supplied fares, that uses Automated Rules in accordance with carrier filing and industry standards. This automation virtually eliminates discrepancies caused by human error and further enhances the level of service provided to customers.
  - Use of the ATPCO Automated Rules product, which includes complete and accurate code share application in accordance with industry standards.
  - Significantly reduced development time to implement changes in industry standards or practices as well as build new products for future.

## Development Impacts for EDIFACT Select

During the phased implementation of the new GlobalFares system, customers benefit in these areas:

- **All EDIFACT Select Customers**

All customers have access to the new fares system, *regardless of their EDIFACT message version*. This access offers all EDIFACT Select customers the ability to display and quote the most up-to-date fares and fare conditions, using the full implementation of ATPCO Automated Rules, Footnotes, and Routings.

No changes will be made to EDIFACT message definitions. *Nevertheless, we advise customers to review this document to determine whether changes to data content will affect their applications.*

- **EDIFACT Select Customers, Version 00.1**

For EDIFACT Select Version 00.1 customers, additional fares functionality is available through changes to data elements, which are described in this guide. In most cases, the changes involve content changes or minor version updates only.

The changes described in this guide identify the impacted messages, segments, and data elements. In general, the changes fall into one of the following categories:

- Changes that involve modifying the North American Fare Quote system to be consistent with the International Fare Quote system. Additionally, to facilitate the transition to the new fares system, certain out-of-date functions were retired; however, in most cases customers should not observe any impact to their applications for these types of changes.
- Updated functionality that required the need for changes to EDIFACT Select processing. None of the changes to the processing required EDIFACT message version updates. Many of the changes include updates to content responses. For example, additional options may be returned in a response, such as the 'U' in the Fare Display line to indicate unsaleable fares. Although the data structure does not change, this type of change is included in this group to highlight whether a review of an application is warranted.

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## Implementation of GlobalFares™—The Next Generation

The migration of customers to the new North American fare quote system will commence on June 16, 2001 and will be complete on **July 31, 2001**. Users of the North American fare quote system will be notified when their Pseudo City codes will be cut over to the new system.

In order to ensure a smooth transition to the new fares system, customers need to review current applications against the descriptions included in this guide to determine whether those applications require updates or modifications.

Galileo representatives are co-ordinating the implementation of the GlobalFares over the next several months and can provide customers further details on scheduling GlobalFares—The Next Generation implementation.

# FAR Request and Response, Version 00.1

## Fare Display

### 1. Seasons Validated in the Default Fare Display for North American City Pairs

Any seasonal rule restrictions are validated for North American city pairs. Some fare rules have seasonal provisions that allow travel only at certain times of the year (ATPCO Category 3). When a fare has such a provision and the date of travel in the TVL, C310, 9916 falls outside the allowed seasonal dates, the fare is not returned in the response. As with the display for international city pairs, this validation can be overridden by the long display option.

Request Message:	No change.
Previous Response:	Same.
New Response:	No change.
Customer Action:	Customers can select long display to obtain similar displays to those provided today by specifying code 744 in data element 9910 in composite C648 in the FQU segment table. FQU+++++744'

### 2. Tariff Display 'Short FD' Alert Message Eliminated

The alert message \* SHORT FD \* is no longer returned.

Request Message:	No change.
Previous Response:	IFT+3+*SHORT FD*
New Response:	The IFT line above is no longer returned.
Customer Action:	None.

### 3. Fares Unsaleable

Fares that cannot be sold from the requester's location (due to a Category 15 sales restriction) are nevertheless displayed, unless they are private fares. Such unsaleable fares are flagged with a 'U' in the fare display fare line. This enhancement affects mainly Visit USA (VUSA) fares, which are unsaleable within the United States. These are displayed (when requested using the fare display category VUS) with the 'U' indicator when the requester's location is within the area restricted by the fare rule.

Request Message:	No change.
Previous Response:	Same.
New Response:	FQU+++++784' is returned if a fare is unsaleable.
Customer Action:	Customers need to check that they can recognise FQU+++++784' as an acceptable value for that field.

### 4. Display of Ticketing Code

Fare displays include Ticketing Code and Ticket Designator. With this enhancement, the complete fare basis code always appears in the fare line of the display. If the fare has a Ticket Designator (TD) and/or a ticketing code (TC), these are on a separate line, using free form text .

Request Message:	No change.
Previous Response:	Same.
New Response:	Free form data line.

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Customer Action:	Customers should verify whether the Free Form Text Data Line can be accommodated.
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## 5. :RT Modifier Displays Doubled One Way Fares

Currently, the Round Trip indicator results in round trip fares being displayed. With this enhancement, one way fares that can be (and are) doubled for round trips are also displayed, thus showing more fares in the fare display.

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Request Message:	No change.
Previous Response:	Same.
New Response:	Content change, now contains OW fares doubled when the RT option is used.
Customer Action:	None.

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## 6. North American Fare Display Outputs Months (1M, 2M) to Match Rule Data

The North American Fare Display displays a month value, as appropriate, in the advance purchase and minimum and maximum stay fields if the ATPCO automated rule data is coded as number of months instead of days.

Example: Assume that Delta's KOE14NZ fare from LAX to BTM has a maximum stay of one month. Today, the display shows a maximum stay of 30 days. After this enhancement, the display correctly shows 1M.

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Request Message:	No change.
Previous Response:	Same.
New Response:	Advance Purchase and Minimum Stay is currently defined as 2-alpha characters; Maximum Stay is defined as 2-numeric characters. These field definitions are changed to 2-alphanumeric characters.
Customer Action:	Customers should ensure that these fields are not expected to always be either alpha or numeric only and accept 1M instead of 30 or 2M instead of 60.

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## 7. Non-Embellished ('Without Rules') Fare Display for North American City Pairs Eliminated

When a request is made to view a fare display for North American cities, some users are still set up to view the non-embellished fare display. Unlike the more detailed embellished display, this display does not contain any rule information, nor does it include applicable private fares unless specifically requested. (The non-embellished fare display defaults to the embellished fare display when private fares modifiers (for example, account code) are included in the request.) This GlobalFares release does not support the non-embellished fare display, so users receive the more enhanced embellished fare display in response to a fare display request.

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Request Message:	With or Without Rules option is no longer supported; action is as if 'With Rules' is always requested.
Previous Response:	Same.
New Response:	Same.
Customer Action:	Customers need to ensure that the non-embellished (without rules) display is not required.

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## 8. Neutral Units of Currency (NUC) Modifier

The modifier to display fares in NUC format is allowed with any fare display request, regardless of geography. The fares selected for display are converted to their NUC value and the display indicates that the NUC value is displayed.

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Request Message:	NUC is permitted for North American city pairs.
Previous Response:	Same.
New Response:	Data content – fares are converted to their NUC equivalent.
Customer Action:	This function is currently limited to International city pairs. Customers may remove any such restriction preventing users using this follow on entry from a North American Fare Display.

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## 9. Discount Percentage (DP) Passenger Information Code (PIC) Allows a 100% Discount

The Discount Percentage PIC allows a value of 100 (\*DP100/\*RP100) to be entered for the purpose of displaying or pricing a 100 percent discount.

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Request Message:	Query Amount field accepts a value of 100.
Previous Response:	Same.
New Response:	No change.
Customer Action:	Customers can remove any application client restriction.

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## 10. Multi Airport Fares for North American City Pairs

Users must allow for Multi Airport fares to display for North American city pairs in the same format as for International city pairs.

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Request Message:	No change.
Previous Response:	Same.
New Response:	City Pair Data Line, currently restricted to International city pairs, is extended to include North American city pairs, and is used to indicate the airport/city pair for the fares in the following response.
Customer Action:	Customers need to ensure the applications can support the City Pair Data Line.

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## FAR Request and Response, Version 00.1

### Fare Notes

Airlines have the capability to file fares via ATPCO to identify that an electronic ticket (E-Tkt) is required, permitted, or not permitted for a particular fare. Previously, GlobalFares™ did not validate and enforce this field of Category 15.

An alert is displayed in Fare Display Notes to indicate that a particular fare requires that an E-TKT be issued. A message is returned that an E-TKT must be, may be, or may not be required.

Request Message:	Same.
Previous Response:	Same.
New Response:	The response may include one of the following three messages: <ul style="list-style-type: none"><li>▪ IFT+4:703+TICKETS MUST BE ISSUED BY ELECTRONIC TICKETING'</li><li>▪ IFT+4:703+TICKETS MAY BE ISSUED BY ELECTRONIC TICKETING'</li><li>▪ IFT+4:703+TICKETS MAY NOT BE ISSUED BY ELECTRONIC TICKETING'</li></ul>
Customer Action:	Customers need to ensure the applications can support the new message.

## LFF Request and Response, Version 99.1

### Low Fare Finder

#### 1. Seasons Validated in the Default Fare Display for North American City Pairs

Any seasonal rule restrictions are validated for North American city pairs. Some fare rules have seasonal provisions that allow travel only at certain times of the year (ATPCO Category 3). When a fare has such a provision and the date of travel in the TVL, C310, 9916 falls outside the allowed seasonal dates, the fare is not returned in the response. As with the display for international city pairs, this validation can be overridden by the long display option.

Request Message:	No change.
Previous Response:	Same.
New Response:	No change.
Customer Action:	Customers can select long display to obtain similar displays to those provided today by specifying code 744 in data element 9910 in composite C648 in the FQU segment table. FQU+++++744'

#### 2. Tariff Display 'Short FD' Alert Message Eliminated

The alert message \* SHORT FD \* is no longer returned.

Request Message:	No change.
Previous Response:	IFT+3+*SHORT FD*
New Response:	The IFT line above is no longer returned.
Customer Action:	None.

---

### 3. Fares Unsaleable

Fares that cannot be sold from the requester's location (due to a Category 15 sales restriction) are nevertheless displayed, unless they are private fares. Such unsaleable fares are flagged with a 'U' in the fare display fare line. This enhancement affects mainly Visit USA (VUSA) fares, which are unsaleable within the United States. These are displayed (when requested using the fare display category VUS) with the 'U' indicator when the requester's location is within the area restricted by the fare rule.

---

Request Message:	No change.
Previous Response:	Same.
New Response:	FQU+++++784' is returned if a fare is unsaleable.
Customer Action:	Customers need to check that they can recognise FQU+++++784' as an acceptable value for that field.

---

### 4. Display of Ticketing Code

Fare displays include Ticketing Code and Ticket Designator. With this enhancement, the complete fare basis code always appears in the fare line of the display. If the fare has a Ticket Designator (TD) and/or a ticketing code (TC), these are on a separate line, using free form text .

---

Request Message:	No change.
Previous Response:	Same.
New Response:	Free form data line.
Customer Action:	Customers should verify whether the Free Form Text Data Line can be accommodated.

---

### 5. :RT Modifier Displays Doubled One Way Fares

Currently, the Round Trip indicator results in round trip fares being displayed. With this enhancement, one way fares that can be (and are) doubled for round trips are also displayed, thus showing more fares in the fare display.

---

Request Message:	No change.
Previous Response:	Same.
New Response:	Content change, now contains OW fares doubled when the RT option is used.
Customer Action:	None.

---

### 6. North American Fare Display Outputs Months (1M, 2M) to Match Rule Data

The North American Fare Display displays a month value, as appropriate, in the advance purchase and minimum and maximum stay fields if the ATPCO automated rule data is coded as number of months instead of days.

Example: Assume that Delta's KOE14NZ fare from LAX to BTM has a maximum stay of one month. Today, the display shows a maximum stay of 30 days. After this enhancement, the display correctly shows 1M.

---

Request Message:	No change.
Previous Response:	Same.
New Response:	Advance Purchase and Minimum Stay is currently defined as 2-alpha

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	characters; Maximum Stay is defined as 2-numeric characters. These field definitions are changed to 2-alphanumeric characters.
Customer Action:	Customers should ensure that these fields are not expected to always be either alpha or numeric only and accept 1M instead of 30 or 2M instead of 60.

## 7. Non-Embellished ('Without Rules') Fare Display for North American City Pairs Eliminated

When a request is made to view a fare display for North American cities, some users are still set up to view the non-embellished fare display. Unlike the more detailed embellished display, this display does not contain any rule information, nor does it include applicable private fares unless specifically requested. (The non-embellished fare display defaults to the embellished fare display when private fares modifiers (for example, account code) are included in the request.) This GlobalFares release does not support the non-embellished fare display, so users receive the more enhanced embellished fare display in response to a fare display request.

Request Message:	With or Without Rules option is no longer supported; action is as if 'With Rules' is always requested.
Previous Response:	Same.
New Response:	Same.
Customer Action:	Customers need to ensure that the non-embellished (without rules) display is not required.

## 8. Neutral Units of Currency (NUC) Modifier

The modifier to display fares in NUC format is allowed with any fare display request, regardless of geography. The fares selected for display are converted to their NUC value and the display indicates that the NUC value is displayed.

Request Message:	NUC is permitted for North American city pairs.
Previous Response:	Same.
New Response:	Data content – fares are converted to their NUC equivalent.
Customer Action:	This function is currently limited to International city pairs. Customers may remove any such restriction preventing users using this follow on entry from a North American Fare Display.

## 9. Discount Percentage (DP) Passenger Information Code (PIC) Allows a 100% Discount

The Discount Percentage PIC allows a value of 100 (\*DP100/\*RP100) to be entered for the purpose of displaying or pricing a 100 percent discount.

Request Message:	Query Amount field accepts a value of 100.
Previous Response:	Same.
New Response:	No change.
Customer Action:	Customers can remove any application client restriction.

## 10. Multi Airport Fares for North American City Pairs

Users must allow for Multi Airport fares to display for North American city pairs in the same format as for International city pairs.

Request Message:	No change.
Previous Response:	Same.

New Response:	City Pair Data Line, currently restricted to International city pairs, is extended to include North American city pairs, and is used to indicate the airport/city pair for the fares in the following response.
Customer Action:	Customers need to ensure the applications can support the City Pair Data Line.

## ITP Request and Response, Version 00.1

### Fare Quote

### Best Buy

### Low Fare Shop

#### 1. *Need Rules Validation* Alert Eliminated on All Relevant Displays

The agent alert of *Need Rules Validation* currently displays for any fare quote involving a North American fare that has a rule coded with a penalty or restriction, or when a FIC modifier is used. This message is no longer sent with the Fare Quote response.

Request Message:	No change.
Previous Response:	Same.
New Response:	No change. The 'Need Rules Validation' message is not sent in the response.
Customer Action:	None.

#### 2. Discount Percentage (DP) PIC Allows a 100% Discount

The Discount Percentage PIC allows a value of 100 (\*DP100/\*RP100) to be entered for the purpose of displaying or pricing a 100 percent discount. Field needs to be expanded to accommodate three characters.

Request Message:	No change. The field already accepts a value of 100.
Previous Response:	Same.
New Response:	No change.
Customer Action:	Customers need to confirm field can accommodate three characters.

#### 3. Ticketing Code and/or Ticket Designator Included in Fare Quote Linear

Itinerary pricing in GlobalFares currently appends ticket designators to fare basis codes in limited cases, such as senior discounts. Such designators, however, are displayed as a result of specific system programming rather than in response to individual carriers' rule filings. Ticketing codes are not supported at all. The ATPCO automated rules product provides carriers the flexibility of filing ticketing codes and ticket designators. With this enhancement, the pricing response includes any ticketing code and ticket designators that are filed for a given rule.

When a ticketing code is filed, it replaces or alters the published fare basis code. GlobalFares displays the appropriate ticketing code in the fare quote linear. When a ticket designator is filed, it is appended to the fare basis code. An oblique (/) separates the fare basis code and the ticket designator.

Request Message:	No change.
Previous Response:	Same.

New Response:	No change. The text format includes ticket designator and ticket code information in the text. In some cases, the ticketing code replaces the fare basis code; the ticketing designator displays in its own field.
Customer Action:	None.

#### 4. Rate of Exchange (ROE) and Neutral Units of Currency (NUC) Values Removed When the Itinerary is within One North American Country

With this release, fare quotes of itineraries that are wholly within one country use and display local currency values only, rather than using NUCs. Note: The ROE value is only returned when NUC values are used in the fare construction.

Request Message:	No change.
Previous Response:	Same.
New Response:	No change. The text data content reflects this change.
Customer Action:	If the application is designed to use content from the previous message, then the application may need to be modified to accommodate this change.

#### 5. 'R' Denoting Routing Fare Deleted from Linear Fare Quote Response for North American Itineraries

Linear fare quote no longer displays the 'R' denoting 'routing fare'.

Request Message:	No change.
Previous Response:	Same.
New Response:	No change. The text data content reflects this change.
Customer Action:	None.

#### 6. Fare Identification Code (FIC) (Fare Basis Codes) Fail Categories

The output describing categories that failed validation as a result of a FIC for North American Itineraries are enhanced to provide clearer information and to be consistent with the ATPCO automated rules product. Additional rule categories are required for output for failed categories for a FIC fare quote. These are Category 1 (Eligibility) and Category 9 (Transfers).

Request Message:	No change.
Previous Response:	Same.
New Response:	No change, though data content is more accurate.
Customer Action:	Customers need to code to additional fields to obtain full functionality.

#### 7. Fare Quote Output

Fare quote output for North American itineraries are enhanced to be consistent with the linear fare quote response for International itineraries.

Example 1 – Within US.

AA 1522 Y 15OCT MIAORD AK1 0714 0922

MIA AA CHI Q11.16 680.93Y26 USD692.09 END
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## Example 2 – Transborder

```
US 2348 K 18DEC YULPIT AK1 0633 0830
US 1929 H 18DEC PITSJU AK1 0905 1411
US 260 M 03JAN SJUPIT AK1 1730 2058
US 442 K 03JAN PITYUL AK1 2215 2346
```

```
YMQ US PIT Q23.52 152.71KE21NR US SJU 298.50HLXE7BN US PIT
Q3.02 396.50MHXE7MNR US YMQ Q23.52 141.50KSE21BMN
NUC 1039.27 END ROE1.4733
```

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Request Message:	No change.
Previous Response:	Same.
New Response:	No change. The text data content reflects this change.
Customer Action:	If the application is designed to use content from the previous message, the application may need to be modified to accommodate this change.

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## 8. Maximum Segments Increased from 8 to 16

The maximum number of segments allowed to be priced is increased from 8 to 16. This increases the number of segment ranges a user can select (the current limit is nine).

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Request Message:	The maximum number of segments that may be sent is now 16.
Previous Response:	Same.
New Response:	No change.
Customer Action:	If customers require the ability to select more than nine segment number ranges, they need to code to send the additional segments.

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## ITP Request and Response, Version 00.1

### Rules Text

## 1. Renumbering of Rule Text Paragraphs and Menu Changes

GlobalFares adopted the industry standard rule category display for North American fares and uses industry standard text language for both full text and summary text. These changes are content only.

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Request Message:	No change.
Previous Response:	Same.
New Response:	The changes are reflected in the text.
Customer Action:	If specific text fields are flagged as headers, applications need to be checked for consistency, in that the text content may change with this update.

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