

Amadeus Miscellaneous U-Lines

Segment Indicator

- Amadeus use U-lines within AIR files to identify unticketed or ancillary segments.
- U-lines can be used to enter information related to third-party transfer bookings. These are entered as passive MIS segments into the Amadeus PNR. The BMM booking import process is able to import passive MIS segments and create Other items in a travel folder.
- Below is an example of a BMM Other item with structured locations:

Other Segment (TGT) - Transfers & Ground Transport

Vendor Name	Penang Transfers Ltd		☐ Financial Vendor
From	18MAR24	Dep. Time	1230
To	18MAR24	Arr. Time	1730
Nights	0	Dep. Location	LPT
Region	International	Destination	CNX
No Pax	3	Pax	

- Below is an example of a BMM Other item with unstructured locations:

Other Segment (T_F) - Transfer

Vendor Name	Penang Transfers Ltd		☒ Financial Vendor	Travel 2/4	Acting As Agency For
From	23MAR24	Nights	5	Dep. Location	Penang International Airport
To	28MAR24	Region	International	Destination	Batu Ferringhi
No Pax	2	Pax	Orsman, Phil		
Product Description	Limo Return Transfer		Flight Basis	None	Journey Distance
					0

- Below is an example of a U-line in an AIR file for a passive MIS segment:

U-001;003MIS 1A HK01 07NOV;CHC;FREE TEXT;P1

- Miscellaneous segments are always tagged with the segment identifier tag of 'MIS'.
- The relevant other segment details are returned over a few lines of information which are described across the next sections. The number of information lines included in the import file depends on the information that is loaded into Amadeus by the user.
- The BMM import will rely on certain tags being present in the U-line to create an Other item in the BMM folder without any manual intervention.
- Where mandatory information is not present in the import file, the booking import will fail. The booking will remain in the Booking Import Queue, with error text explaining why the import failed.

U-Lines: Standard Elements mapping

- The highlighted snippets of information from the U-line are mandatory U-lines elements required by Amadeus:

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- However, not all these elements are consumed by Dolphin during the booking import process from Amadeus into the BMM.

- The table below illustrates how the standard elements of miscellaneous U-lines will be consumed by Dolphin during the import process.

Value	Description/Validation	BMM Other Item Field	Notes
U-	Message tag	n/a	
001	Tattoo number in the PNR	n/a	
;	Semicolon delimiter		
003	Segment number in the PNR	n/a	
MIS	- Segment identifier tag - Constant value of MIS	n/a	BMM import logic will be implemented to handle the MIS tag to then create an Other item.
	Blank delimiter		
1A	- Airline/supplier code 1A stands for Amadeus - We will only ever see the 1A value	n/a	
	Blank delimiter		
HK	Status code	Item status code	Mandatory field in the BMM.
01	Number in party	Number of passengers	
	Blank delimiter		
07NOV	- Date - DDMMM format	n/a	This element will be ignored as the date will be taken from the free text lines.
	Semicolon delimiter		
CHC	3-5 characters - City code - Mandatory in AIR files	Dep. Location	See the section Logic to handle Other item locations.
	Semicolon delimiter		
Free text lines	- Free flow data - Maximum 232 characters accepted, including spaces. - Tags will be used to enter data required for the creation of a Other segment in a BMM folder.		See more information on the supported tags within the free text lines in the next section.
	Semicolon delimiter		
P1	Optional passenger indicator	n/a	This is currently only supported for tickets that are passenger related. Therefore, if present, it will be ignored for the creation of Other items.

U-Lines: Free Text Element Mapping

- Below is an example of an AIR file's MIS segment which includes the free text element.
- The proposed tags within the element will ensure that the segment contains the necessary information required by the BMM to successfully create an Other item.
- All Other items pricing lines created following this process will have the **Form of Payment** dropdown set to **Paid to Branch**.
 - The option **Paid to Vendor** will not be supported.
- Each element (made of tag + data) in the free text lines will be separated with a slash delimiter as per below examples:

Example 1: MIS segment with sell currency and sell price

The below entry in the GDS (manual or via a smart key):

RU1AHK02LBA31JAN/**VC-123**/**VN-CORPORATE CABS**/**PC-TRF**/**SD-07NOV24**/**ST1215**/**ED-07NOV24**/**ET-1315**/**CF**
BJPG06W/**SC-NZD**/**SP-100.00**/**SL-CHRISTCHURCH AIRPORT CHRISTCHURCH**/**EL-WESTFIELD RICCARTON RICCARTON ROAD**
RICCARTON/**PD-TRANSFER**

is then converted into a U line within AIR files:

U-001;003MIS 1A HK01 07NOV;CHC; **VC-123**/**VN-CORPORATE CABS**/**PC-TRF**/**SD-07NOV24**/**ST1215**/**ED-07NOV24**/**ET-1315**/**CF**-**BJPG06W**/**SC-NZD**/**SP-100.00**/**SL-CHRISTCHURCH AIRPORT CHRISTCHURCH**/**EL-WESTFIELD RICCARTON RICCARTON ROAD RICCARTON**/**PD-TRANSFER**

Example 2: MIS segment with buy currency and buy price

The below entry in the GDS (manual or via a smart key):

RU1AHK02LBA31JAN/**VC-123**/**VN-CORPORATE CABS**/**PC-TRF**/**SD-07NOV24**/**ST1215**/**ED-07NOV24**/**ET-1315**/**CF**
BJPG06W/**BC-NZD**/**BP-90.00**/**SL-CHRISTCHURCH AIRPORT CHRISTCHURCH**/**EL-WESTFIELD RICCARTON RICCARTON ROAD**
RICCARTON/**PD-TRANSFER**

is then converted into a U line within AIR files:

U-001;003MIS 1A HK01 07NOV;CHC; **VC-123**/**VN-CORPORATE CABS**/**PC-TRF**/**SD-07NOV24**/**ST1215**/**ED-07NOV24**/**ET-1315**/**CF**-**BJPG06W**/**BC-NZD**/**BP-90.00**/**SL-CHRISTCHURCH AIRPORT CHRISTCHURCH**/**EL-WESTFIELD RICCARTON RICCARTON ROAD RICCARTON**/**PD-TRANSFER**

Example 3: MIS segment with buy currency and price and sell currency and price

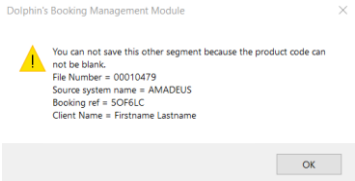
The below entry in the GDS (manual or via a smart key):

RU1AHK02LBA31JAN/**VC-123**/**VN-CORPORATE CABS**/**PC-TRF**/**SD-07NOV24**/**ST1215**/**ED-07NOV24**/**ET-1315**/**CF**
BJPG06W/**BC-NZD**/**BP-90.00**/**SC-NZD**/**SP-100.00**/**SL-CHRISTCHURCH AIRPORT CHRISTCHURCH**/**EL-WESTFIELD RICCARTON RICCARTON ROAD RICCARTON**/**PD-TRANSFER**

- The highlighted snippets of data will be used by the BMM to create/update the Other item:

Tag	Description	Example	BMM Field	Max number of characters in the BMM	Notes

VC	Vendor code	VC-123		64	This is the interface code that allows the BMM to match the vendor/supplier name included in the AIR file to an existing vendor profile in the BMM. The value after the “-“ will be treated as the vendor interface code. The following points describe existing logic which will be leveraged to support Amadeus MIS segments: • The BMM will look for an existing vendor profile with a matching interface code record (with source system = Amadeus). • If an existing vendor profile is not found then one will need to be created, subject to the user’s security profile settings. • If the user cannot create vendor profiles an error will be displayed and the PNR will remain in the booking import queue. • This vendor will be used as the itinerary AND financial vendor unless an RM*IFV remark is added to add a financial vendor.
VN	Vendor name	VN-CORPORATE CABS		130	This will only be used if the vendor profile is created when the PNR is imported. Or if the Update Existing Vendor Profile is ticked in the branch configuration settings.
PC	Product Code	PC-TRF		5	An Other product code must exist in the MIS segment in order to import it. If the PC- tag is missing from a MIS segment, the BMM will be unable to create the Other item, the import process will fail and the BMM user will be presented with the below message:

					 Dolphin's Booking Management Module  You can not save this other segment because the product code can not be blank. File Number = 00010479 Source system name = AMADEUS Booking ref = S0F6LC Client Name = Firstname Lastname OK
PD	Product Description	PD-TRANSFER	Other item > Product Description	150	
SD	Start date	SD-07NOV	Other item > From field		- The date will be mapped to the From field at item level. - BMM will interpret the date as DDMMYY. - The last two digits for the year are optional. The BMM will support reading these 2 digits from the date if specified. So, the SD element could be loaded as: SD07NOV24 or SD07NOV.
ST	Start Time	ST-1215	Other item > Dep Time field		- The time will be mapped to the Dep Time field at item level. - BMM will interpret these characters as HHMM. IMPORTANT NOTE: the Print As Separate Legs On Cust Docs setting available within Other product codes currently controls whether the time will be mapped in the BMM folder or not. If this setting is <u>ticked</u>, the item level Time fields are hidden. Time values provided in import files are not saved to the database if the UI fields are hidden. If this setting is <u>unticked</u>, the item level Time fields are displayed, and time values provided in import files will be saved. IMPORTANT NOTE: the logic related to the Time fields is being reviewed and it might

					change so that the Dep. Time and Arr. Time fields are always displayed regardless of how the product code is configured.
ED	End date	ED-07NOV [	Other item > To field		As above but for the To field.
ET	End Time	ET-1315	Other item > Arr. Time field		As above but for the Arr. Time field.
SL	Start Location	SL-CHRISTCHURCH AIRPORT CHRISTCHURCH	Other item > Dep. Location field		See the section Logic to handle Other item locations
EL	End location	EL-WESTFIELD RICCARTON RICCARTON ROAD RICCARTON	Other item > Destination field		See the section Logic to handle Other item locations
DE	Destination	DE-CHC	Other item > Destination field		See the section Logic to handle Other item locations
CF	Vendor confirmation number	CF-BJPG06W	Other item > Conf. field	31	
SC	Sell Currency	SC-NZD	Other item > pricing line	3	- Mandatory tag with the SP tag. - SC tag MUST be present with SP tag. - The BMM will need both tags to successfully add a pricing line. - If the SC or the SP tag is missing from the U-lines, the import process will fail, and the user will be presented with an error. See below.
SP	Sell Price	SP-100.00	Other item > pricing line		- Mandatory tag with the SC tag. - The value after the “-” will be treated as the sell price. - For more information, see the section Logic to Handle Other Item Sell/Buy Price.
BC	Buy Currency	BP-90.00	Other item > pricing line	3	- Mandatory tag with the BP tag. - BC tag MUST be present with BP tag as the BMM will need both tags to

					successfully add a pricing line. If the BC or the BP tag is missing from the U-lines, the import process will fail and the user will be presented with an error, see below.
BP	Buy Price	BP-90.00	Other item > pricing line		- Mandatory tag with the BC tag. - The value after the “-” will be treated as the buy price. - For more information, see the section Logic to Handle Other Item Sell/Buy Price.

Logic to Handle Other Item Sell/Buy Price

- The BMM will expect the SC+SP- OR the BC+BP- tags to be present in the MIS segment in the import file.
- If there is no SC+SP- nor BC+BP- tags in a MIS segment, the import will fail and remain in the booking import queue. See errors below.
- Existing functionality will be leveraged so that if only a BC+BP is specified, then BMM will set this as both the BC+BP and SC+SP in the pricing. Similarly, if only a SC+SP is specified then BMM will set this as both the BC+BP and SC+SP. Unless there is a default commission rate or pricing engine rule which will further manipulate these values.
- Errors will appear as follows:
 - Buy price missing and buy currency specified** "You cannot save this Other segment because the buy price is missing and the buy currency is specified"
 - Sell price missing and sell currency specified** "You cannot save this Other segment because the sell price is missing and the sell currency is specified"
 - Buy currency missing and buy price specified** "You cannot save this Other segment because the buy currency is missing and the buy price is specified"
 - Sell currency missing and sell price specified** "You cannot save this Other segment because the sell price is missing and the sell currency is specified"
 - No currency code at all** - "You cannot save this Other segment because the currency is not specified"
- Scenarios:
 - Buy price currency can be either same as the branch currency or different (vendor currency).
 - Sell price currency can be the same as the branch currency or the same as the buy price currency (vendor currency).
 - Sell price currency cannot be different to buy price currency unless it is the home currency.
 - If only buy currency is provided: this can be home or foreign.
- If only sell currency provided: this can be home or foreign and that currency code should be set as the vendor currency on the pricing.
 - Both buy and sell currency provided: buy currency can be home or foreign. Sell must be the same as the buy currency, unless it is the home currency, and the buy is foreign.
- The following are valid scenarios:
 - if no buy currency provided then sell currency can be anything and if different to branch currency it will be set as the currency code for the pricing.

- if buy currency provided then buy currency will be set as the currency code for the pricing and sell currency must match branch currency or the buy currency.
 - otherwise, the interfacing process will fail and the BMM user will display this error message: *"Invalid currency code. You cannot save this Other segment."*
- In all valid cases, where the currency code in the AIR file differs from the branch currency, the corresponding amount will be set in the vendor currency amount field otherwise the amount will be set in the branch currency amount field.

Logic to Handle Other Item Locations

- Other items in the BMM are extremely flexible as they are used to enter a variety of products, from balloon rides to cinema tickets and restaurant bookings. For this reason, there are more settings to configure within product codes that belong to the Other item type.

Logic for Populating the 'Dep. Location' field

When 'Start Location Structured' is unticked in the Other product code:

- Taken from the SL tag in the free text line.
- Behaviour if there is no SL tag within the free text lines AND **Start Location Mandatory** setting is ticked in the OTH product code:
 - A booking import error will be displayed - *"Interfacing failed because: You cannot save this Other segment because the start location cannot be blank"*.
 - The Amadeus PNR will remain in the booking import queue.

When 'Start Location Structured' is ticked in the Other product code:

- Taken from the structured City Code field in the U-line:

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- Value will be 3-5 characters long.
- The city code is a mandatory U-lines element so it will always be present.
- Behaviour if the U-line city code does not exist in the BMM as an arrival point code OR it exists but is flagged as deleted:
 - The **Dep. Location** field will still be populated with the U-line city code.
 - However, the BMM will not be able to create a new arrival point code as it does not have the corresponding arrival point name/destination/country.
 - This in turn means that the **Dep. Location** code will not decode on customer documents/reports.

Logic for Populating the 'Destination' field

- The U-line contains only one structured city code field, which will be used as the start city code. The EL tag in the free text line will therefore be used to obtain the **Destination** field value, unstructured OR structured.

When 'End Location Structured' is unticked in the Other product code:

- Taken from the EL tag value.

When 'Start Location Structured' is ticked in the Other product code:

- Taken from the DE- tag value.
- The BMM will treat the DE value as a structured arrival point code.

- However only the first 5 characters will be used, and they will be treated as an arrival point code.
- Behaviour if the DE tag value does not exist in the BMM as an arrival point code OR it exists but is flagged as deleted:
 - The **Destination** field will still be populated with the value entered after the EL- tag in the free text lines.
 - However, the BMM will not be able to create a new arrival point code as it does not have the corresponding arrival point name/destination/country.
 - This in turn means that the Dep Location code will not decode on customer documents/reports.
- Behaviour if there is no EL- or DE- tag within the free text lines AND **End Location Mandatory** setting is ticked in the OTH product code:
 - A booking import error will be displayed - *"Interfacing failed because: You cannot save this Other segment because the end location cannot be blank"*.
 - The Amadeus PNR will remain in the booking import queue.

Examples

Example 1: unstructured start and end locations

U-001;003MIS 1A HK01 07NOV;CHC; VC-123/IVN-CORPORATE CABS/PC-TRF/ PD-TRANSFER/SD-07NOV/ST1215/ED-07NOV/ET-1315/SL-CHRISTCHURCH AIRPORT CHRISTCHURCH/EL-WESTFIELD RICCARTON RICCARTON ROAD RICCARTON/CF-BJPG06W/ SC-NZD/SP-100.00/BC-NZD/BP-90.00

Example 2: structured start and end locations

U-001;003MIS 1A HK01 07NOV;CHC; VC-123/IVN-CORPORATE CABS/PC-TRF/ PD-TRANSFER/SDT-07NOV 1215/EDT-07NOV 1315/DE-CHC/CF-BJPG06W/SC-NZD/SP-100.00/BC-NZD/BP-90.00

Example 3: structured start location and unstructured end location

U-001;003MIS 1A HK01 07NOV;CHC; VC-123/IVN-CORPORATE CABS/PC-TRF/ PD-TRANSFER/SDT-07NOV 1215/EDT-07NOV 1315/EL-WESTFIELD RICCARTON RICCARTON ROAD RICCARTON/CF-BJPG06W/SC-NZD/SP-100.00/BC-NZD/BP-90.00

Example 4: unstructured start location and structured end location

U-001;003MIS 1A HK01 07NOV;CHC; VC-123/IVN-CORPORATE CABS/PC-TRF/ PD-TRANSFER/SDT-07NOV 1215/EDT-07NOV 1315/SL-CHRISTCHURCH AIRPORT CHRISTCHURCH/DE-CHC /CF-BJPG06W/SC-NZD/SP-100.00/BC-NZD/BP-90.00

RM-lines

- RM lines allow Amadeus users to add additional information related to the passive segments. This is useful because the U-line free text section only allows up to 232 characters (including spaces) and therefore additional lines are required to enter all the required segment data.
- Each RM line allows up to 127 characters.
- The RM*IFV line is already supported for item financial vendor overrides for passive hotel and car segments. This will be extended to work on MIS segments as well.
- The RM*IFV/XXXXX;SZ line is related to the item financial vendor name.
- The RM*IFV/XXXXX;SZ line is only supported for Amadeus Hotel and Car passive segments.
- The RM*IFV/XXXXX;SZ line will be extended to apply to Amadeus passive Other segments as well.
- The RM*IFV/XXXXX;SZ line will be used to specify the financial vendor's name in case it is different than the itinerary vendor name.

