

## **PNRGOV EDIFACT Message construction presentation.**

**Alan Walker, 5<sup>th</sup> April 2017**

**The following presentation provides an overview of how PNRGOV EDIFACT messages may be constructed in regards to the order in which segments may be populated in the message.**

**It is to be noted that the presentation includes all groups and their segments.**

**In reality, supported data items will vary between different reservation systems & therefore the PNRGOV messaging will vary in content and the nested ordering. It is likely that each individual message will not include all the groups and segments that the PNRGOV EDIFACT message format supports.**

**For example, where check-in has not commenced, Group 6 and 7 would not normally be supplied, but the groups following Group 6 (G8 –G12 and LTS) may be included.**

**To improve readability on slides 2 & 3, where the PNRGOV EDIFACT Imp guide shows Groups referenced in the format of “GR.1”, “GR 1”, “GR.2” or “GR 2” etc, these Group references have been converted to read “G1” , “G2” etc.**

**The presentation is best ran as a slide show.**

UNA - Service String Advice  
 UNB - Interchange Header Segment  
 UNG - Functional Group Header  
 UNH - message header information  
 MSG - specifies the function of the message  
 ORG - specifies the sender of the message  
 TVL - the flight (departure date/time, origin, destination, operating airline code, flight number, and operation suffix) for which passenger data is being sent.  
 EQN - the total number of PNRs being sent for the flight push

**G1 - repeats for each passenger record sent**  
 SRC - contains no data  
 RCI - the record locator(s) for this passenger record  
 SSR - special service data that applies to all passengers/ flights  
 DAT - date of most recent ticket issuance and last PNR transaction date/time  
 IFT - other service information (OSI) for all passengers/flights  
 ORG - origination of the booking  
 ADD - contact information  
 EBD - excess baggage information for all passengers

**G2 - Repeats for each passenger in the record**  
 TIF - a passenger name; indication of type - only use for group; a given name, PTC code, possible traveler reference to SSRs, FF's and other info, and a traveling with infant indicator.  
 FTI - frequent traveler numbers for the passenger in the TIF  
 IFT - other service information (OSI) for this passenger  
 REF - unique passenger reference id  
 EBD - excess baggage information for this passenger(s)  
 FAR - fare info - PTC code, age, discounted fare type, percent of discount or country code, in-house fare type/corporate contract number, and fare basis code  
 SSR - special service data that applies to the passenger for all flights  
 ADD - emergency contact information and/or UMNDR delivery and collection addresses

**G3 - repeats for each ticket associated to this passenger**  
 TKT - ticket number, total number of booklets issued, in connection doc info  
 MON - ticket amount  
 PTK - pricing information for this ticket  
 TXD - tax amounts for this ticket  
 DAT - Date of ticket issuance for each ticket

**G4 - form of payment information**  
 TIF - type of form of payment, credit card info, and other form of payment information associated with a ticket.  
 IFT - sponsor information  
 ADD - credit card billing information

**G5 - repeats for each flight segment in the passenger record's itinerary**  
 TVL - date/time of departure, arrival time, origin and destination, marketing & operating airline code(s), flight number, reservation booking designator, operational suffix.  
 TRA - operating carrier code, flight number and RBD.  
 RPI - flight booking status and number of passengers for this flight  
 APD - type of aircraft  
 SSR - special service requests that apply to this flight  
 RCI - passenger record locator specific to this flight  
 IFT - other service information (OSI) for this flight

**G6 - Check in information for each flight in the itinerary**  
 DAT - check-in time  
 ORG - the agent info that checked-in the passenger

**G7 - boarding, seat number and checked bag info**  
 TRI - sequence/boarding number for this check-in  
 TIF - the checked-in name  
 SSD - actual seat number (row and column)  
 TBD - checked bag information

**G8 - split passenger record locator**  
 EQN - the number of passengers split to/from a passenger record  
 RCI - the split record locators

**G9 - non-air segments**  
 MSG - specifies the type of non-air segment such as car, hotel, rail  
 TVL - non-air segment information

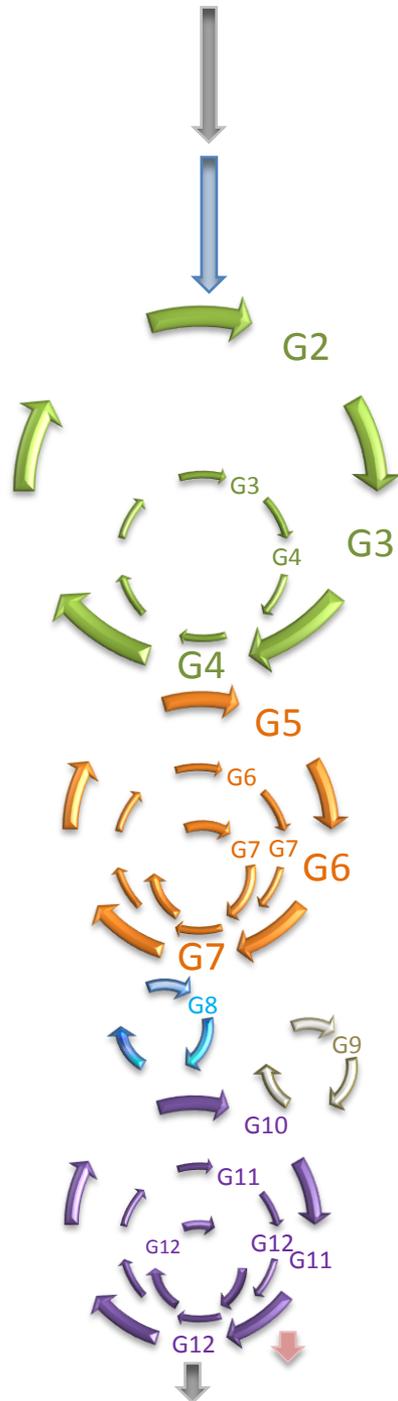
**G10 - repeats for each occurrence of a history credit**  
 ABI - originator of change and agent id  
 DAT - history time stamp

**G11 - one line in a history credit**  
 SAC - history action code  
 TIF - history passenger name changes  
 SSR - history special service requirement changes  
 IFT - history other service information changes  
 TBD - History Baggage Details

**G12 - history flight and non-air information**  
 TVL - dates, departure/arrival airport/city codes, vendor code, etc.  
 RPI - booking status and number of passengers

**LTS - unformatted history information**

UNT - Message Trailer Information  
 UNE - Functional Group Trailer  
 UNZ - Interchange Trailer



# PNRGOV EDIFACT Message flow - 24<sup>th</sup> January 2017

Headers occur only once for a PNRGOV EDIFACT message

G1<sup>999</sup> only occurs once for a PNR, then moves on to a circular (repeating as required) G2-G3-G4

G2<sup>999</sup>- G3<sup>999</sup>- G4<sup>1</sup> repeats for each passenger on the same PNR

When a G2 is complete, the message can move on to circular (repeating as required) G3-G4, or can go back to another G2 passenger

G3-G4 repeats for each ticket associated to each passenger on the same PNR

When a G3 is complete, the message can move on to single G4 or can go back to another G2 or G3.

When a G4 is complete, the message can move on to circular G5-G6-G7 or can go back to another G2 or G3.

When all the G2- G4's are complete on the PNR, the message moves on to a circular G5-G6-G7

G5<sup>999</sup>- G6<sup>999</sup>- G7<sup>999</sup> repeats for each flight segment on the PNR

When a G5 is complete, the message can move on to circular (repeating as required) G6-G7, or can go back to another G5

G6 (& G7) repeats for each check-in for each flight in the itinerary

When a G6 is complete, the message can move on to G7, or can go back to another G5

When G7 is complete, the message can go back to another G5 or G6 or moves on to a circular G8

When the G8<sup>99</sup> is complete, it moves on to circular G9

When the G9<sup>9</sup> is complete, History may be populated in either or both of a circular G10-G11-G12 and or through utilising LTS

G10<sup>99999</sup>- G11<sup>999</sup>- G12<sup>2</sup> repeats for each occurrence with a different history credit

When a G10 is complete, the message can move on to circular (repeating as required) G11-G12, or can go back to another G10

G11- G12 can repeat for the same history credit

G12 can repeat (twice) for the same history flight/non-air information

When the G10-G11-G12 is complete for the history credit, the message can go back to another G10-11-G12 or a new PNR at G1

Where LTS<sup>9999</sup> is used for History and is complete, go back to a new PNR at G1

When all PNRs are complete, add the footers

Footers occur only once for a PNRGOV EDIFACT message

The UNB and UNZ, UNG and UNE, and UNH and UNT work as pairs, header and trailer respectively. The UNG/UNE pair is optional.

**L0 - Control Data**  
**UNA: Service String**  
 used within the interchange  
 The UNA service string defaults. The UNA is  
**UNA:+.?\***

**UNB: Interchange Header**  
 Specifies the syntax and message preparation  
**UNB+IATA:1+AIRLINES**  
 Information from the response to PNRGO'

**UNG: Group Header**  
 Specifies the PNR and time of message preparation  
**UNG+PNRGOV+AIR**

**UNH: Message Header**  
 Specifies the PNR and all subsequent transfer means of declaring header  
**UNH+ MSG1+PNR**

The purpose of the "control" and recipient of the message for the MSG segment

**MSG: Message action**  
 Level 0 MSG: type of message  
**MSG+:22'**

**ORG: Originator of message**  
 Level 0 ORG: specifies originator  
**ORG+DL:ATL+5251**  
 For "update" pushes PNR is cancelled or replaced  
**ORG'**

**TVL: Travel product**  
 The flight (departure number, and operating carrier)  
**TVL+300310:1700:3**

**EQN: Number of Uniquely**  
 The total number of unique messages  
**EQN+98'**

or each record

