





CEE Group Processor

Application Guide Version 1.8

Last update MAR23





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1. Introduction

CEE Group Processor is a tool that helps agency to create passive group booking in Galileo[™] GDS upon PNR data received from airline inventory system, usually by e-mail. Currently, the application supports 1A – Altea (Amadeus), TK – Turkish Airlines and EK – Emirates systems, but it's ready to be extended to other systems in the future.

1.1. Benefits

Application significantly improves working efficiency and brings following features to the agencies:

- Creates passive group booking automatically, including Passenger names, Flight details, Vendor locator and Group name, received by e-mail from the airline.
- Supports all formats of 1A PNR (Passenger or Flight list in the top).
- Can be extended to accept other systems PNR (currently only 1A, TK and EK).
- Automatic reading of clipboard text.
- Smart text processing there is no need to extract PNR to feed the application. Program finds the data automatically in entire e-mail text. However, only one group PNR could be present in source text.
- Editable source text window. All updates are immediately processed in background.
- Smart error handling.
- Real time booking process monitoring.
- Galileo Smartpoint Quick Commands integration.
- Two languages are available for user interface English and Czech.

2. Distribution

Application is distributed in single executable file *gp_setup_x.x.x.x.exe*, where *x.x.x.x* indicates current software version and build.

2.1. Installation

Run Group Processor distribution file from any folder and follow setup guide in following steps. Ignore and confirm any security warnings that may be issued by Windows.

2.1.1. Installation prerequisites

Group Processor communicates with the Galileo [™] GDS by sending commands in the background of Smartpoint using Galileo Desktop API. A Viewpoint TCP/IP stack must be configured on a PC.

2.1.2. Language selection.

Two different languages can be selected for installation process:

- English
- Czech

GP	Zvolte jazyk, který se má použít během instalace:
	instalace.
	English

Initial setup language defaults to Windows locales of particular PC, or to the language found in previous Group Processor installation footprint.





2.1.3. Welcome screen.

This screen is not interactive and informs about Group Processor version to install.

C Setup - CEE Group Processor						
(À CEE	Welcome to the CEE Group Processor Setup Wizard					
TRAVEL SYSTEMS	This will install CEE Group Processor version 1.7.0.0 on your computer.					
	It is recommended that you close all other applications before continuing.					
B	Click Next to continue, or Cancel to exit Setup.					
	Next > Cancel					

2.1.4. Destination folder selection

Setup defaults to store the application files in folder c:\fp\swdir\CEE_Apps\GroupProcessor and it's recommended to keep it. However, the application works fine from any place.

This dialog is disabled, when running application upgrade.

🕝 Setup - CEE Group Processor
Select Destination Location Where should CEE Group Processor be installed?
Setup will install CEE Group Processor into the following folder.
To continue, click Next. If you would like to select a different folder, click Browse.
c:\fp\swdir\CEE_Apps\GroupProcessor Browse Browse
At least 1,1 MB of free disk space is required.
Herebalt ay a mode dian applice to require the
< <u>Back</u> Cancel

2.1.5. Ready to install screen

This screen informs user about final installation details (Destination location and Start Menu folder). Start menu folder CEE Application/Group Processor is hard coded in the application and cannot be changed.

Setup - CEE Group Processor	• X
Ready to Install Setup is now ready to begin installing CEE Group Processor on your computer.	R
Click Install to continue with the installation, or dick Back if you want to review or change any settings.	
Destination location: c:\fp\swdir\CEE_Apps\GroupProcessor Start Menu folder: CEE Applications/Group Processor	*
×	
< Back Install	Cancel





2.1.6. Adding shortcut to the Smartpoint Quick Commands

Successful installation is confirmed by last message box where adding of Group Processor command #GRP to the Smartpoint can be selected. This option is enabled by default.

Add to Smartpoint Quick Commands option is disabled, when running application upgrade.

Setup - CEE Group Processor					
C CEEE TRAVEL SYSTEMS	Completing the CEE Group Processor Setup Wizard				
	Einish				

If Add to Smartpoint Quick Commands was selected, installation script confirms the command installation and #GRP shortcut is available after Smartpoint restart.

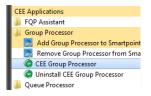
Smartpo	int 💌
1	Group processor added to default Quick Commands Group processor added to Quick Commands for user JP Please restart Smartpoint
	ОК

Note:

Smartpoint must be restarted to read new setup and to include CEE Group Processor #GRP command.

2.1.7. Start menu folder

Setup creates following four shortcuts in Start menu CEE Application/Group Processor program group. Actual appearance depends on Windows version.



- CEE Group Processor: runs Group Processor application
- Uninstall CEE Group Processor: uninstalls all parts of Group Processor, including individual setup file and Smartpoint command
- Add Group Processor to Smartpoint Quick Commands: this allows to add Group Processor #GRP command to the Smartpoint manually



 Remove Group Processor from Smartpoint Quick Commands: removes Group Processor command #GRP from Smartpoint setting leaving other shortcuts untouched

2.2. Application upgrade

If Group Processor has been already installed in a PC, setup shows instead of folder selection dialog a message box, asking user for upgrade confirmation. Also, option to create Smartpoint Quick Command on the last page is disabled.



2.3. Application uninstalling

For complete Group Processor uninstallation, run shortcut *Uninstall CEE Group Processor* from Startup menu and confirm the command:

C	EE Group	Processor Uninstall
	?	Are you sure you want to completely remove CEE Group Processor and all of its components?
L		Ano

Program uninstall is acknowledged by a message, optional Smartpoint Quick Command removal is silent:

CEE Group Processor Uninstall	×
CEE Group Processor was successfully removed t	rom your computer.
	ОК

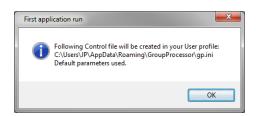
Note:

Uninstall deletes gp.ini file (see below) from active agent profile only.

3. Application setup

3.1. Application initialization

When PC user starts the application for the first time, an individual program setup *gp.ini* file with default parameters is created in his/her profile. This allows agents sharing the same PC to have private setting of Phone contact, remark and other fixed data. Program startup continues with Setup screen then.







Setup screen description

Setup screen can be invoked anytime with the Setup button (see Main screen description).

Application Setup								
CEE Group Processor version 1.7.0.0								
Company Rules	Language							
Phone Contact Mandatory Host Command Mandatory Default Phone Contact	English Czech Force English Keyboard							
Default Note	Default Airline							
	1A - Amadeus 🔹							
Default Custom Check (RULA)	Discard Save							

Following data can be altered and stored for future use:

- Phone Contact Mandatory ... A box with Phone contact on the main screen must be filled to continue with Group booking.
 default value: YES
- Host Command Mandatory .. Specific host command is mandatory before GP starts with booking process. This transaction must be issued manually on Main screen for each PNR, there is no box in Setup with default value for Host Command. *default value: NO*
- Default Phone Contact....... This value goes to the Phone contact box in the Main screen but can be altered there. *default value: blank*
- Default Note...... This value goes to the Note entry box in the Main screen but can be altered there.
 default value: blank
- Default Custom Check....... This value goes to the RULA Code box in the Main screen and can be overwritten there. *default value: blank*
- Language User interface can communicate with agents in Czech or English. default value: Czech for CZ localized Windows, English for others
- Force English Keyboard...... Force English keyboard layout on Czech PC regardless the Smartpoint setting. default value: NO, keep system keyboard layout
- Default Airline Airline or Inventory system that will be used for PNR decoding as default (system can be changed on the Main screen).
 default value: 1A Amadeus

An application version number is shown in the top part of the Setup screen.

Save button stores the setting to the gp.ini file, Discard button purges the changes.





4. Program usage

4.1. Main screen controls description

CEE Group Processor												
Input Data												
UIROE REREIO121 EEOPREI YTSW28 0. OPAROQUIADAPONTINHA NM:15 BKD:15 CNL:0 SPL:0 1. ALMEIDA/ALZIRAMER 2. ANTUNES/GLORIAMES 3.BRAGA/LAURAMES									ect Airline / Sys			
4. CARDOSO/JOSEF MR 5. CARDOSO/MARIAESTER MRS									1A - Amadeus 👻			
6.DUARTE/MARIAMRS 7.FERNANDES/MARIAJOSEMRS 8.FRANCISCO/ANTONIOMR 9.GABRIELA/JOAOMR 10.GABRIELA/SEVERINAMRS 11.GALHANO/ANTONIOMR 12.GALHANO/HERMINIAMRS 13.GALHARDO/MANUBLMR 14.GOMES/MARIAMADALENA MRS 15.GONCALVES/LUISA MRS										ок		
17 ARNK	MAX I LIS	SENC RKID	2 093	0 1120	E*							
19 TP1664 G 07	MAY 5 FNG	CLIS HK15	190	0 2035	E*				Process Booki	ng Exit		
Name List - 15 Pax								Nb	Nbr of Pax Vendor Locator			
ILLIMETDA/ALZIRAMRS IANTUNES/GLORIAMRS IRRAGA/LAURAMRS IRRAGA/LAURAMRS ICARDOSO/JOSEF JR									15 YTSW28 Group Name PAROQUIADAPONTINHA			
1CARDOSO/MARIA		5						≡ Ph	one contact	Setup		
1DUARTE/MARIAM	RS							13	132456789			
	1FERNANDES/MARIAJOSEMRS								Notification			
1FRANCISCO/ANT 1GABRIELA/JOAO												
1GABRIELA/JOAO 1GABRIELA/SEVE 1GALHANO/ANTON 1GALHANO/HERMT	RINAMRS IOMR							TRI TRI	ILA Code	Host Command		
Flight List												
Flight number	Class	Date	Day	Origin	Destination	Status	Pax	Termina	Departure	Amival		
TP1615	G	03MAY	1	LIS	FNC	HK	15	2	0930	1120		
TP1664	G	07MAY	5	FNC	LIS	HK	15		1900	2035		

Item	Description
Input Data	An editable text box with source Group PNR data. Once booking process starts, this text box converts to the Terminal window to monitor communication with the host.
Load PNR from Clipboard	Refreshes Input Data box with Clipboard text data.
Select Airline / System	List box to choose between available systems to decode source PNR.
ОК	Alert field to display PNR decoding errors. There is an OK sign, when no errors found.
Process Booking	This button starts the booking process. Button is disabled, when any errors encountered in PNR decoding.
Name List	List of Passenger names to book. A total number of PAX follows the header of the box. This box is not editable.
Nbr of Pax	Number of Passengers, excluding infants. Value cannot be changed in the box.
Vendor Locator	PNR Locator code, information only.
Group Name	Name of the Group, not editable.
Phone Contact	Phone number to include in the Galileo BF Phone field. Phone number must be entered, if set to mandatory and no default number is defined on Setup.



Setup button	This button invokes the Setup screen.
Notification	Notepad free text to include in the Galileo BF.
RULA Code	Adds RULA element to the PNR. Can be defined with or without PCC in format PCC/VALUE or just VALUE. RULA value is pre-filled with default data taken from Setup.
Host Command	 Transaction code to issue before booking starts. This command may be mandatory in accordance to the Setup setting. There is no default value for Host Command, which must be entered for each booking separately. GP performs no syntax check of data entered in this box.
Flight List	List of flights to book. A vertical scrollbar is shown, when flight segments number exceeds five. Flight is highlighted and marked with ERROR, if any fault is encountered in parsing process. At least one valid flight must be present to start booking process.

4.2. Source PNR editing and error handling

Application reads automatically text from the Clipboard at startup. The best way to start the booking is copying the e-mail or other text with source PNR to the Clipboard and invoking Group Processor with #GRP command in Smartpoint. Input Data text box can be refreshed anytime pressing the button "Load PNR from Clipboard".

There is no need to select exact PNR text from the e-mail or other source, but input text should contain only one group booking.

Source PNR is immediately parsed and the results are transferred to Name List, Nbr of Pax, Vendor Locator, Group Name and Flight List non-editable boxes.

If any errors are encountered during the parsing process, green OK sign is replaced with list of errors and "Process Booking" button is disabled. Source PNR text can be then edited within the Input Data box using standard editing keys including shortcuts Ctrl-A, Ctrl-X, Ctrl-C and Ctrl-V. Entered characters are automatically converted to upper case for better readability.

Changes to the source PNR are immediately evaluated.

Following events may be source of errors:

- Scrambled text or other mess in source PNR.
- Missing Vendor Record Locator.
- Discrepancy in total Passenger number, comparing to the Passenger list or booked seats on the flight segments.
- Other flight status than HK.
- Flight departure date must be closer than 335 days ahead.
- Flights with error data are simply ignored, but there must be at least one valid flight to continue with booking.
- PNR must not contain duplicated names.
- GP cannot book Passengers without first name and/or gender.

If more than three errors are encountered, the input is considered as not a PNR text





4.2.1. PNR parsing logic description

- Input text is searched for Vendor Record Locator, which is considered as start of PNR.
- All Passenger and Flight details are extracted by regular expressions.
- Identical names are reported as errors and highlighted in the source text.
- Passengers without first name and/or gender are reported and highlighted as errors.
- Program extracts infants from parentheses in Passenger list. This function is limited to 1A PNR.
- For each flight, program checks booked seats number, flight status and departure date limit.
- Segments like ARNK are ignored and may remain in the source.
- Program tolerates one missing index in the flight list numbering.
- If the flight is unknown by Galileo, it is still booked using itinerary and times retrieved from source PNR.
- Program correctly books flights with arrival date on next day, previous day or D+2.
- (Surnames grouping to the families has been discontinued in version 1.6).

4.2.2. Identical Passenger names and missing first names treatment

Unfortunately, Galileo[™] GDS cannot book duplicated names in the group and first names (or gender) are mandatory. Therefore, the source Passenger list is scanned, such names are highlighted and "Process Booking" button is disabled. Names must be manually altered to continue with booking.

Duplicity and missing first name example, together with missing mandatory Phone contact:

nput Data				_						
RP/PRGOKŪINV/P 0. OHURRA/PEY BKD:10 1.MAREK/MR 4.MAREK/CHD 7.RENATA/MRS	NM:10 CN 2.MAREK 5.MAREN	NL: 0 /MRS(INF/I <mark>(/CHD</mark> 6	BILL/04JU	SI N12) R	L3/1237z PL: 0 3.MAREK/N				Load PNR f t Airline / Sy - Amade	
9.RENATA/MAS RP/PRGOK0INV/P RF 0. OHURRA/PEY 11 OK 636 G	RGOKOINV NM:10		ok/rm	21FEB1	1025 ti	7bfqub la/e*	хх	Miss	icated nan ing first na	ame / gender
/OK /CZ/C 12 AP PPP 13 TK OK21FEB 14 SSR GRPF Y	/I/CAB Y/ /PRGOKŪIN	овкк/ /			/	LA/ L			rocess Book	
Name List - 10 Pax + 2 Ir	f							Nbro	f Pax	Vendor Locator
1MAREK/MR								<u>^</u> 10		7bfqub
1MAREK/MRS 1MAREK/MISS									p Name	
1MAREK/MISS								HUI	RA/PEY	
1MAREK/CHD								Phor	e contact	Setup
1RENATA/MR										N
1renata/mrs								Matt	cation	X
1RENATA								Notin	Callon	
1RENATA/MAST 1RENATA/MAST +								RUL	A Code	Host Command
INFANT MAREK/B	ILL*04JU	112								
Flight List										
Flight number	Class	Date	Day	Origin	Destination	Status	Pax	Terminal	Departure	e Antival
OK636	G	100CT	4	PRG	BRU	HK	10	2	1805	1935
									-	





4.2.3. Flight data error treatment

This screenshot indicates, how the application treats and highlights errors found in the flight data:

- Flight OK 101 incorrect flight status (HL)
- Flight OK 102 incorrect Passenger count (2 instead of correct 3)
- Flight OK 103 generic error in flight data format
- Flight OK 104 incorrect date (past the allowed window D+335)

Also, Group Processor ignores ARNK segment and tolerates missing flight with index 8 between OK 103 and OK 104.

Because there is no valid flight, the group booking is prohibited.

CEE Group Processor	•									×
Input Data										
P/PAROK0100/ML 0. 0FLIGHT/TES BKD:3 1.BENOIST/MU	ST NM:3 CN	L: 0			L: 0	6P6PST ES MRS		Selec	Load PNR fro t Airline / Syst	:em
4 OK 101 G : /OK /FR/C, 5 OK 102 G : /OK /FR/C, 6 ARNK 7 OK 103 G /OK /FR/C, 9 OK 104 G 0	/I/CAB Y 18JAN 5 1 /I/CAB Y *** ERR /I/CAB Y 08FEB 7 1	/ // BTSKSC HK / // OR IN FLI / // BTSPRG HK	2 / / 2 / / GHT DATZ / / 3 :	1 1810 : / A *** / 1 1410 :	2000 /	E* E* E*		Ignor	- Amadeu red flights: 4 alid flight(s)	
/OK /FR/C,	/I/CAB Y	/ //	//	/	/			Pr	ocess Bookin	g Exit
Name List - 3 Pax								Nbr o	fPax V	endor Locator
1BENOIST/MURIE	L MRS							3	(5P6PST
1BEUVE/ERICK M								Group	Name	
1BEUVE/AGNES M	RS							FLI	GHT/TEST	
								Phone	e contact	Setup
									465798	(Sec. 6)
								_		26
								Notific	cation	
								RUL/	A Code I	Host Command
Flight List										
Flight number	Class	Date	Day	Origin	Destination	Status	Pax	Terminal	Departure	Arrival
	G	17JAN	4	PRG	BTS	HL	3	1	0950	1135
OK101 ERROR	6									
OK101 ERROR OK102 ERROR	G	18JAN	5	BTS	KSC	HK		1	1810	2000
	_		5	BTS	KSC	HK		1	1810	2000





4.3. Galileo group booking process

If there are no errors in PNR processing, booking can be initiated with button "Process Booking".

Program first checks if the agent is correctly signed into Galileo and that there is no open BF in the workspace. If so, an alert is displayed, and program brings agent back to the Smartpoint.

Cannot proceed	Cannot proceed	Cannot proceed
Please close or ignore active BF	Sign into Galileo please!	ign into emulation please!
ОК	ОК	ОК

Application also checks host communication reliability during entire booking process.

If all checks pass, program turns Input Data box to Host Communication terminal emulation and starts the booking. Entire process is monitored in the terminal box. Commands sent to host, host replies and internal program comments are colorized for better readability (see the example in the next page).

When the booking is finished, agent can stay in application to investigate communication stream in the terminal window or return to the Smartpoint immediately. When closed, the agent should issue command *ALL + ENTER in Smartpoint to display created Booking file.

Group booking and ticketing must be finalized manually in the Smartpoint.

ost Communication								_		
7.1FERNAND 9.1GABRIEL				ISCO/ANT			· · · · · · · · · · · · · · · · · · ·		Load PNR fro	m Clipboard
11.1GALHANO								Calar	t Airline / Syst	
13.1GALHARD									- Amadeu	
15.1GONCALV								AL	- Amadeu	.s •
1. TP 1615 2. TP 1664						SU TH				
FONE-PRGT*12		NCLIS ANI	9 TAOO	2035		In				
rktg-t*									0	ĸ
NOTE-									0	n
1. TEST RE										
VLOC-1A*YTSW	28/23MAR 2	321								
*** Finished	***		*** OK	***			×		rocess Bookin	a Exit
								-	rocess bookin	
lame List - 15 Pax				Booking	g file successfu	lly created		Nbro	fPax V	endor Locator
IALMEIDA/ALZ	TDAMOS	_		Return t	o Smartpoint?					TSW28
LANTUNES/GLO				Recum	o smartpoint.				o Name	13W20
1BRAGA/LAURA	MRS						_			ONTINHA
1CARDOSO/JOS					Ano	Ne			~	Setur
1cardoso/mar 1duarte/mari		S					-	_	Phone contact 123456789	
1FERNANDES/M		s						123	456789	20
IFRANCISCO/A	NTONIOMR								cation	
IGABRIELA/JO								TES	T REMARK	
1gabriela/se 1galhano/ant								RUL	A Code I	Host Command
IGALHANO/HER								-		
light List										
Flight number	Class	Date	Day	Origin	Destination	Status	Pax	Terminal	Departure	Arrival
TP1615	G	03MAY	1	LIS	FNC	HK	15	2	0930	1120
TP1664	G	07MAY	5	FNC	LIS	HK	15		1900	2035



Booking flow example, as displayed in Host Communication window:

Creating Passive Segments for a Group >N.G/15PAROQUIADAPONTINHA * >P.T*123456789 *	
>T.T* * >RL.1A*YTSW28 * >NP.TEST REMARK * >OTP1615G03MAYLISFNCAK15	
FLIGHT NOT FOUND - DEP/ARR TIMES REQUIRED	
>0TP1615G03MAYLISFNCAK15/09301120 1. TP 1615 G 03MAY LISFNC AK15 0930 1120 FLIGHT NOT FOUND - CHECK FLIGHT DETAILS OFFER CAR/HOTEL CAL HOA	SU
>0TP1664G07MAYFNCLISAK15 FLIGHT NOT FOUND - DEP/ARR TIMES REQUIRED	
>0TP1664G07MAYFNCLISAK15/19002035 1. TP 1615 G 03MAY LISFNC AK15 0930 1120 2. TP 1664 G 07MAY FNCLIS AK15 1900 2035 FLIGHT NOT FOUND - CHECK FLIGHT DETAILS OFFER CAR/HOTEL CAL HOA	SU TH
>R.GROUP-PROCESSOR * >ER	
MINIMUM CONNECT TIME UNAVAILABLE SEGMENTS 01/02	
>ER CP9K4S/5N QSBGN V5A5N AG 99999992 020CT 1.G/15PAROQUIADAPONTINHA	
1. TP 1615 G 03MAY LISFNC AK15 0930 1120 2. TP 1664 G 07MAY FNCLIS AK15 1900 2035	SU TH
** VENDOR LOCATOR DATA EXISTS ** *VL FONE-PRGT*123456789 TKTG-T* NOTE-	
1. TEST REMARK 5N 020CT 1423Z	
Continue with Passenger Names >N.1ALMEIDA/ALZIRAMRS * >N.1ANTUNES/GLORIAMRS * >N.1BRAGA/LAURAMRS * >N.2CARDOSO/JOSEFMR/MARIAESTERMRS * >N.1DUARTE/MARIAMRS * >N.1FERNANDES/MARIAJOSEMRS * >N.1FERNANDES/MARIAJOSEMRS * >N.1FRANCISCO/ANTONIOMR * >N.2GABRIELA/JOAOMR/SEVERINAMRS * >N.2GALHANDO/MANUELMR * >N.1GOMES/MARIAMADALENAMRS * >N.1GONCALVES/LUISAMRS * >R.GROUP-PROCESSOR * >ER CP9K4S/5N OSBGN V5A5N AG 99999992 020CT	
G/00PAROQUIADAPONTINHA 1. TP 1615 G 03MAY LISFNC AK15 0930 1120	SU
2. TP 1664 G 07MAY FNCLIS AKI5 1900 2035 ** VENDOR LOCATOR DATA EXISTS ** *VL FONE-PRGT*123456789 TKTG-T* NOTE- 1. TEST REMARK 5N 020CT 1423Z	TH
result:	
CP9K4S/5N QSBGN V5A5N AG 99999992 020CT G/00PAROQUIADAPONTINHA	
1.1ALMEIDA/ALZIRAMRS 2.1ANTUNES/GLORIAMRS 3.1BRAGA/LAURAMRS 4.2CARDOSO/JOSEFMR/MARIAESTERM 6.1DUARTE/MARIAMRS 7.1FERNANDES/MARIAJOSEMRS 8.1FRANCISCO/ANTONIOMR 9.2GABRIELA/JOAOMR/SEVERI 11.2GALHANO/ANTONIOMR/HERMINIAMRS 13.1GALHARDO/MAN 14.1GOMES/MARIAMADALENAMRS 15.1GONCALVES/LUISAMRS	NAMRS
1. TP 1615 G 03MAY LISFNC AK15 0930 1120	SU
2. TP 1664 G 07MAY FNCLIS AK15 1900 2035 FONE-PRGT*123456789 TKTG-T*	TH
NOTE- 1. TEST REMARK 5N 020CT 1423Z VLOC-1A*YTSW28/020CT 1423	
*** Finished ***	





5. Support and Troubleshooting

Please contact administrators at *helpdesk@cee-systems.com* if any problems encountered during this tool usage.

Please be ready to send following details:

- Description of the problem
- Application version (from Setup window)
- Copy of source PNR
- Screenshot of incorrect application reply, if available