PMpro & German fiscal solutions

Explanation of Efsta implementation in PMpro and POS+ Available in PMpro from version 10.3.146.x Available in POS+ from version 6.5.26.0027

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1. Introduction

Lack of Fiscal regulation in Germany resulted in growing number of tax-related frauds, which, after years of hesitation, forced German government to take actions.

The first fundamental step forward ensuring the immutability of cash register data was the Act on Protection against Manipulation of Digital Records (Kassensicherungsverordnung) adopted back in 2016, enters into force on January 1st, 2020. According to this law, it is mandatory that electronic record-keeping systems must be additionally equipped with a so-called "Technische Sicherheitseinrichtung" – TSE. In addition to that, all existing cash registers in operation must also be reported to the respective German tax authorities.

Technical security device – TSE is consisting of three components: a security module, a storage medium and a digital interface, with three main functions: it transfers, protects and stores cash register transactions.

The TSE must be certified, which is the responsibility of TSE manufacturers. Certification of the actual point of sale system or POS application is not necessary. The TSE certification is valid for five years. Respective certificates may be renewed after expiration.

Immediately after goods are sold or services provided the receipt must be issued to a customer, but the customer is not obliged to take the receipt. Receipts can be issued in paper form or be made available electronically via an app or mail¹.

1.2 What does this mean?

This means that all receipts/invoices must be digitally signed by the TSE. Effectively, this means that every receipt has a digital signature in the form of a QR code. This TSE keeps journals in addition to the financial transaction journals, both of which must be produced during certain types of tax audits, and consequentially must be archived (implied but not mandatory). Mandatory retention period for both is 10 years, plus 5 years for data involved with a tax audit, or court proceedings. On request, financial transaction journal data has to be provided to a tax auditor in a specific format called DSFinV-K (Digitale Schnittstelle der Finanzverwaltung für Kassensysteme, or digital interface of fiscal authority for cashier systems)²

¹ <u>https://www.vatupdate.com/2021/10/24/fiscalization-in-germany/</u>

² EFSTA_usermanual_1.22_EN.pdf

2. Glossary

- TSE "Technische Sicherheitseinrichtung": The TSE is a so-called technical safety device. This is responsible for capturing the individual recordings in such a way that no manipulation is possible afterwards. It's like a secure container and all data that ends up in this container can no longer be changed. TSE is consisting of three components: a security module, a storage medium and a digital interface, with three main functions: it transfers, protects and stores cash register transactions. Only TSEs certified by BSI (Bundesamt für Sicherheit in der Informationstechnik) may be used (trying to use a non-certified device is illegal, and will be treated as attempted tax fraud, if found out).
- EFR: Electronic Fiscal Register. This is where the financial transactions are digitally registered and signed.

3. How to configure in PMpro

As soon as PMpro has been updated to the latest version (from 10.3.146), which will be done by your PMPro consultant, Efsta configuration becomes available. Your PMPro consultant will link the TSE to your Amadeus PMpro system. Once installed, you can double check the payments (most likely already linked):

1. Go to Setups \rightarrow Financial \rightarrow Pay methods and select the correct setting in DSFinV mapping:

inapping.				
Paymethod				×
Number	1	[Deactivate	
Description	Cash			
Code	CA	Decima	ls 2	
Paymethod Type / CC Range	Standard	\sim		\sim
Disable in folio	Credit card	required [Credit card	interface
CRS type				\sim
Exch. Rate	1,	000000	Disable in c	urrency exch
A/R Acct.	Unknown com	pany		\sim
Guarantee to IATA number				
Print Copy	2			
Product /Department		\sim		\sim
Amount /Percentage		0,00		0,00
Paymeth. stat. group	Standard	\sim		
Account nr.				
External driver		\sim		
Commission %		0,00		
Open drawer				
DSFinV mapping	Cash			~
User 1				
User 2				
User 5				
<u>O</u> K		<u>C</u> ancel		

4. How to configure in POS+

As soon as POS+has been updated to the latest version (from 6.5.26.0027), which will be done by your PMPro consultant, Efsta configuration becomes available. Your PMPro consultant will link the TSE to your Amadeus POS+ system. Once installed, you can double check the payments (most likely already linked):

2. Go to File \rightarrow Setup tables \rightarrow Payment \rightarrow Paymethods. Edit each payment method and and select the correct setting in DSFinV mapping:

🔀 Paymethod	×
Number	1
Description	Cash
Currency	British Pound Sterling 🗸 🗸
Minimum amount	0.01
Paymethod type	Standard 🗸
Paymethod group	Cash 🗸
Print copies	1
Open cash drawer	Cash drawer 1 🗸
Surcharge article	~
Sur. Amount	
Sur. Percent.	
Active	
Ask for description	
Credit card interface	
No handheld paymeth	od
Front office paymethod	01 Cash 🗸
DSFinV mapping	Cash 🗸
<u>о</u> к	<u>C</u> ancel

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5. How does it work in PMPro?

5.1 Make a payment and closing the invoice immediately:

When you check out/close the folio and process a payment, there is no separate receipt, the QR code is added to the invoice immediately:

Test GERMANY

Bill	2017000564
Date	09/12/2021
Room	213
Arrival	09/12/2021
Departure	10/12/2021
Guest	Test
Company	

Test Hotel - BRILF, Breda

Date	Description	Supplement	Q ty.	Price	Amount
09/12	Accommodation		1	100,00	100,00
09/12	Accommodation		1	100,00	100,00
09/12	Cash				-200,00
			Total	_	200,00
			Paid		-200,00
			Balance	_	0,00
			Gross	Vat	Net
		VAT 19%	200,00	31,93	168,07

Ersttransaktion:2021-12-09 09:18:00

The QR code (example) translates to the following information:

V0; PMS/REC; Kassenbeleg-V1; Beleg **200.00_0.00_0.00_0.00^200.00:Bar**; 106; 256; 2022-11-17T08:18:50.000Z; 2022-11-17T08:18:50.000Z; ecdsa-plain-

The most important information is that what is in bold: The total amount, total VAT (x4) and the amount again and type (either **BAR** or **UNBAR**)

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If you want to print the fiscal receipt separately, you can by right clicking the payment (clicking anywhere else won't produce a receipt) of the reopened invoice clicking on Print \rightarrow Reprint payment receipt

Receipt Test		BILLNR	2017000564	
Germany		DATE ROOM ARRDATE DEPDATE GUEST	09/12/2021 213 09/12/2021 10/12/2021 Test	
Test Hotel - BRILF, Bre	eda			
Paymethod	DESCRIPT	SUPPLEMENT		AMOUNT
Cash				-200,00
				-200,00

Ersttransaktion:2021-12-09 09:18:00

The QR code is exactly the same.

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Posting and payment for a creditcard payment:

This is like the cash payment as the result of the signature can be BAR or UNBAR, depending on configuration (in this example, payment has been configured as Unbar).

Bill	2017000565
Date	09/12/2021
Room	213
Arrival	09/12/2021
Departure	10/12/2021
Guest	Test
Company	

Test GERMANY

Test Hotel - BRILF, Breda

Date	Description	Supplement	Q ty.	Price	Amount
09/12	Accommodation		1	100,00	100,00
09/12	Mastercard/Euro Card			_	-100,00
			Total		100,00
			Paid	_	-100,00
			Balance	_	0,00
			Gross	Vat	Net
		VAT 19%	100,00	15,97	84,03

Ersttransaktion:2021-12-09 09:22:00

Information in QR code:

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4.2 Make a pre-payment and close the invoice later

When a guest is making a payment that is not meant to settle the bill, but just an in between payment, this is considered a pre-payment according to the fiscalisation. When you post the payment, you'll get the following message:

Question		×	
	Teilzahlung voi	nehmen?	
C	Yes	<u>N</u> o	

NL: Deelbetaling uitvoeren?

EN: Make a partial payment?

When you click **Yes**: Payment receipt is printed and can be given to the guest. This is the correct procedure for a payment that is not meant to close the folio.

When you click **No**: Payment receipt is not printed, and it is assumed that this payment is for the check out of the folio. When you check out the folio, the QR code printed will include this payment (and any other payments made on check out).

To conclude, you

Whenever you make a payment, a fiscal receipt is printed. This receipt is always printed and must be given to the customer:

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aMadeus

Receipt				
Test Germany		BILLNR DATE ROOM ARRDATE DEPDATE GUEST	R00000046 09/12/2021 213 09/12/2021 10/12/2021 Test	
Paymethod	DESCRIPT	SUPPLEMENT		AMOUNT
Cash				-100,00
				-100,00

Ersttransaktion:2021-12-09 09:25:00

This fiscal receipt is not the invoice. When the customer eventually receives the invoice, the QR code is printed on the invoice as well:



Bill Date Room Arrival Departure Guest Company

2017000519 09/12/2021 114 27/11/2021 09/12/2021 Mr A Test

Mr A Test Street 1 G55 London

CRS Confirmation 1234321

Date	Description	Supplement	Qty.	Price	Amount
09/12	Accommodation		1	100,00	100,00
09/12	Cash			_	-100,00
			Total		100,00
			Paid	_	-100,00
ratum.	LARCH ROX - STATIST		Balance		0,00
			Gross	Vat	Net
- 1		VAT 20%	100,00	15,97	84,03
「穀粉					

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6. How does it work in POS+

When you close a check and process a payment, the QR code is added to the receipt (print screen not available as that only comes out on the POS printer):

Date & Time: 12 Bill: 201701855 Table: 7 (1) Gu Amadeus Suppo	2/3/201 3 uest: ort	17	16:49:	25 Roor	n:	
Description		Q	Price		Total	
Diet Coke 330m 7up 330ml Biddenden Larg	nl ;e	1 1 1	3.00 3.00 5.25		3.00 3.00 5.25	
Total:					11.25	
Cash					11.25	
VAT 20% 19.0	0% (11.2	25-	9.45)		1.80	
Ersttransaktion:2022-11-21 16:35:54 Anfang: 2022-11-21T15:35:59.000Z Ende: 2022-11-21T15:35:59.000Z TransaktionsNr:10 Signaturcount: 59 Algorithmus: ecdsa-plain-SHA256 Signatur: wVg9XjnGj5mhtklGCMhMO/1ZI W1mvUuZQ4qjVerbPmaL1MX00I 0y7+INTHs1lGq/LYI5oMD+3CH cj7+j8CYIDA== Zeitformat: unixTime Seriennummer: b99b2974e4584938b2155d670 a6afe8d5ebadd6e0d88607373 15c2fba7de15c8 Publickey BGHI35ohD/70Til+85DCoiLi+ GuoLX4LUB+YWj1slarflRCrtD JOd7Y2Ckcd0BChMKtToFexLCL g1ighhdRkvUY=					0	

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7. The Efsta local component (EFR)

The local component of Efsta allows you to check the settings and export the fiscal files.

You can open the local component on any internet browser on a pc in the network.

- 1. Open an internet browser
- 2. Enter the following URL in the address:
 - a. On the server: http://localhost:5618
 - b. On a workstation: <u>http://10.31.1.6</u>:5618 (where the number in green is the ip address of the server.

Please do not make any changes in the settings! Any changes might disable your connection the TSE.

7.1 Local component Status

Once the local component is opened, the first screen you see is the status:

Mandant: def Status Steuerung Basisdaten Profil Journal Lizenz Badge: 1111111111111 = EFR: 0000003QTM				
State				
version	EFR.zip 2.2.5	program version (<u>changelog</u>)		
uptime	22:50:03	uptime of application		
D	2022-11-22 11:43:06+01:00	local time (Online: synchronized)		
Recorder	online	connection state cloud		
RecSent	62	records sent / in queue		
Log		download *.log files		
ISEEN IO init C:/ProgramData/EFR/rn/BRILA_POS/dat/jouindex.dat control download OK HttpServer GT /control/exportDSFinVK?open=true&RN=BRILA_POS&from=&till=&iid=1669103655879&button=exportDSFinVK control download OK HttpServer GT /control?NN=BRILA_POS HttpServer GT /control?NN=BRILA_POS HttpServer GET /control?NN=BRILA_POS HttpServer GET /finder?RN=BRILA_POS HttpServer GET /control?RN=BRILA_POS HttpServer GET				

The status should indicate 'Online' with a green color.

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7.2 Local component Steuerung

In the **Steuerung** tab, you can export the fiscal files which are needed by the tax auditor here.

If you have both POS+ and PMpro, first select the correct system by clicking on Mandant:

	Mandant:	def 🗸	Status	Steuerung	Basisdater
I		def			
I	Kasse /	BRILA PMS			
	TaxId	BRILA_POS	111		
	clientI	d			

Then open the tab Steuerung.

- 1. **TSE -** Export.tar: Transactions since last night audit, directly from TSE hardware (according to <u>Technical Guideline BSI TR-03153</u>
- 2. Backup Tse_backup.zip: TSE backup data from journal
- 3. Gobd GOBD.zip: legacy data format according to Bundes Finanz ministerium: GoBD
- 4. **DSFinV**-K Export.zip: Export according to: <u>BZSt</u>: Digital interface of the financial administration for cash registers from the local cash register transaction journal
- 5. Journal jou.zip: Full local JSON journal export

By clicking on the buttons, the exports are immediately added to your downloads folder:

Mandant: def	Status Steuerung Basisdaten	Profil Journal Lizenz	Badge: 111111111111 — EFR: 0000003QTM		
Kasse / Cash Register					
TaxId	11111111111	USt-IdNr. des Unternehmens / company VA	F Registration Number		
clientId		Kassen-Seriennummer It. / cash register se standardmäßig wird die KSNr <esr tl="1</td"><td>rial number according to: 7.5 <u>BSI: TR-03151</u> IT= verwendet / by default ID of cash register <esr is="" td="" tl="TT=" used<=""></esr></td></esr>	rial number according to: 7.5 <u>BSI: TR-03151</u> IT= verwendet / by default ID of cash register <esr is="" td="" tl="TT=" used<=""></esr>		
	SignServer	darf dieses EFR generell als SignServer für a within LAN?	andere Kassen im LAN dienen? / may this EFR serve as SignServer for other EFRs		
	speichern	im Profil speichern / save in Profile			
TSE	hinzufügen Portscan	Technische Sicherungseinrichtung gemäß / I lokale Devices (z.B. USB) und installierte Tr installed drivers	technical security system according to "Kassensicherungsverordnung" eiber werden automatisch erkannt / auto detect of local devices (e.g. USB) and		
Sorial		Driver Mode Info	a, in not instea		
b99b2974e4584	938b2155d670a6afe8d5ebadd6e0d8860737315c2fba7de15c8	TSE_Fiskaly remote Expiry:2023-10-30 clients:PM	MS/REC,BRILA/POS,BRILA/PMS		
	zugeordnet	"zugeordnet": diese TSE wird zur Aufzeichn [Zuordnung setzen]: fixiere TSE-Zuordnung	ung genutzt / this TSE is assigned for recording für diesen Mandanten / fixed assignment for this client		
	konfigurieren	zum Konfigurieren der TSE / configure TSE	parameters		
Export		die gewünschte Export-Datei ist dem befugt	en Prüfungsorgan auszuhändigen / hand over the export file to the auditor		
TSE	1 export.tar	Transaktionen seit letztem Kassenabschluss transactions since last Z report directly from	direkt von der oben ausgewählten TSE entsprechend: 5.1 <u>BSI: TR-03153</u> n TSE hardware		
	von mm/dd/yyyy 🗂 bis mm/dd/yyyy 🗂	Datums-Filter / filter by date			
Backup	TID von bis 2 se_backup.zip	Filter nach / filter by: TID (transactionNumb TSE Backup-Daten (BSI TR-3153) aus dem TSE backup data from journal	ser) lokalen Kassen-Transaktionsjournal		
GoBD	3 gobd.zip	altes Datenformat (durch DSFinV-K ersetzt)	entsprechend / legacy format according to: BMF: GoBD		
DSFinV-K	inklusive offenem Tag export.zip	"inklusive offenem Tag": auch Belege nach o entsprechend / according to: <u>BZSt: Digitale</u> aus dem lokalen Kassen-Transaktionsjourna alternativ: Export aus dem Cloud-Archiv ist	dem letzten Kassenabschluss werden exportiert / include documents after last Z report <u>Schnittstelle der Finanzverwaltung für Kassen</u> I / from local journal über das efsta-Portal abzurufen / option: for export from cloud archive use Portal		
Journal	5 jou.zip	vollständiges lokales Transaktionsjournal in	JSON Format / full local JSON journal export		

All other tabs are managed by your PMpro consultant.

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