

Oracle® Retail MICROS Stores2
Stores2 for France
Release 1.39.6

March 2019

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Note: The rebranding for the latest version of this documentation set is in development as part of post MICROS acquisition activities. References to former MICROS product names may exist throughout this existing documentation set.

Introduction

Purpose

This document is a review of the document published with the version 1.39.4 of Stores2, related to the implementation of the fiscal requirements in France.

In the certification process of the end of 2018, few changes have been requested to the running fiscal implementation.

This document describes all settings needed on Stores2 from base version 1.39.4 (and the updates in version 1.39.6) to set up correctly the program in order to fulfill all France requirements for issuing fiscal documents in according to “NF 525” rules, active from the 1st January 2018.

Certification

Certification details are shown in the image below.

Editeur	Produit	Version	Environnement	Catégorie	Marque associée	Numéro de certificat	Date d'émission	Date de renouvellement
ORACLE FRANCE	Oracle Retail Stores2	1.39.6	Windows	Catégorie B	NF Logiciel Gestion de l'Encaissement (NF 525)	17/0164-R1	2018-12-18	2019-12-18

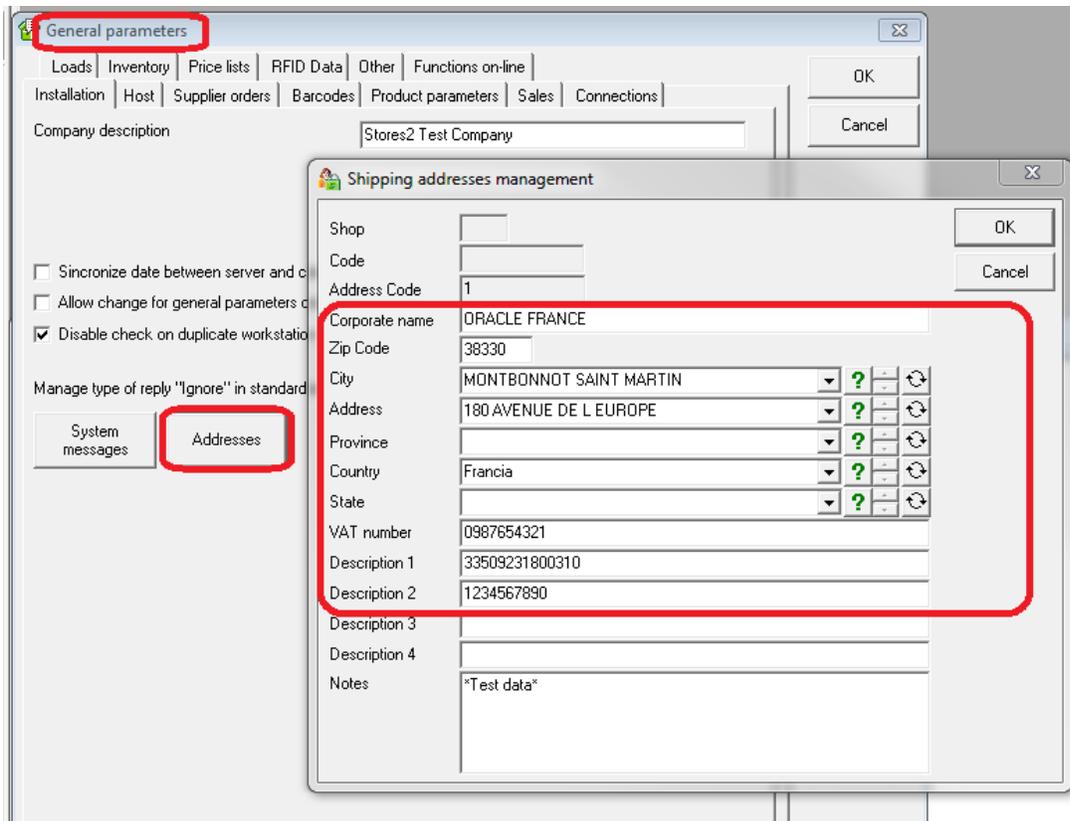
Settings

General settings

Addresses

In Stores2 general settings it is required the creation of a new global address with following features:

- The field “Description 1” shall be filled with the SIRET of the shop that in the second step will be associated with the global address;
- The field “Description 2” shall be filled with the NAF CODE of the shop that in the second step will be associated with the global address;
- All other fields shall be filled with store information.



The same procedure shall be repeated for all different companies located in France.

Countries

On the country "France" in general settings it is required to set all cryptography settings as in the image below.

The certification number shall be filled with the certification code provided from Infocert (**0164**) authority and is printed on receipts.

The certification logo is attached below.



LOGICIEL GESTION DE L'ENCAISSEMENT

Country management

Code: FR
Description: France
Currency: EUR Euro
TaxFree code: 250
Code mod. UNICO:
Majority: 0
Province length: 0

EU Area:

B2C management
ISO code:
ISO Code 2:
VAT Check:
 Not mandatory
 Mandatory
 Mandatory with control
Service for verify existence: No check

Fiscal code check:
 Not mandatory
 Mandatory
 Mandatory with control

Encryption
Certification No: 0164
Logo: D:\Francia\2Norme-NF.bmp
Algorithm: Crittografia Francia

Description	Beginning
Slovenia - 1	
Repubblica Ceca - 1	
<input checked="" type="checkbox"/> Francia - 1	01/01/2017

Certificates
Beginning date | End date | Certificates | Canc

CRM management
 CRM visibility web
ISO code:
ISO language:
Stores2:
Layout code: 99 Default

The Encryption algorithm "France" is the setting that activate the new behavior of the program.

Currencies

In settings of the currency "Euro" it is required to set the ISO code "EUR" in the acronym.

Currencies

Code: EUR

Description: Euro

Decimals: 2 Alternative decimal:

Symbol: €

Acronym: EUR

Buttons: OK, Cancel, Rounding group

Translations

Translations are "nice to have" but not mandatory if the default description is in English.

Tables "Servizi", "Reparti", "Prodotti", shall be managed with translations of descriptions.

Description localization

Table name	Field name	Enabled
Prodotti	Descrizione	<input checked="" type="checkbox"/>
ProdottiVarianti	Descrizione	<input type="checkbox"/>
PromoTestata	Descrizione	<input type="checkbox"/>
PromozioniSrcGruppi	Descrizione	<input type="checkbox"/>
PromozioniTestate	Descrizione	<input type="checkbox"/>
PromozioniTestate	DescrizioneBuono	<input type="checkbox"/>
PromozioniTestate	DescrizioneProblemiTec	<input type="checkbox"/>
PromozioniTestate	DescrizioneSconfitta	<input type="checkbox"/>
PromozioniTestate	DescrizioneVittoria	<input type="checkbox"/>
RaggruppamentiListini	Descrizione	<input type="checkbox"/>
Reparti	Descrizione	<input checked="" type="checkbox"/>
ScalariMaglieHighe	Descrizione	<input type="checkbox"/>

Buttons: OK, Cancel

VAT Codes

The acronym of VAT codes shall be (1), (2), (3), (4) and will be used on the receipt row\VAT recap.

The Code type shall be 1, 2, 3, 4 and will be used on the archive export.

List of VAT codes

Status	Code	Description
ENG	VAT 20%	
FR1	Normal tax (20%)	
FR2	Reduced tax (10%)	
FR3	Reduced tax 2 (5,5%)	
FR4	Reduced tax 3 (2,1%)	
IT	IVA 22%	

VAT code management

Code: FR1

Description: Normal tax (20%)

Acronym: (1) Tax 1 Tax 2

Host code:

Vat type:

Code type: 1

Dates and rates

Beginning	End date	Rate	Ca
01/01/2000		20,0000	<input type="checkbox"/>

Buttons: OK, Cancel

Shop settings

Master data

In the main view of shop settings, all highlighted fields are mandatory.

Receipt option

The header of the receipt must contain all following information:

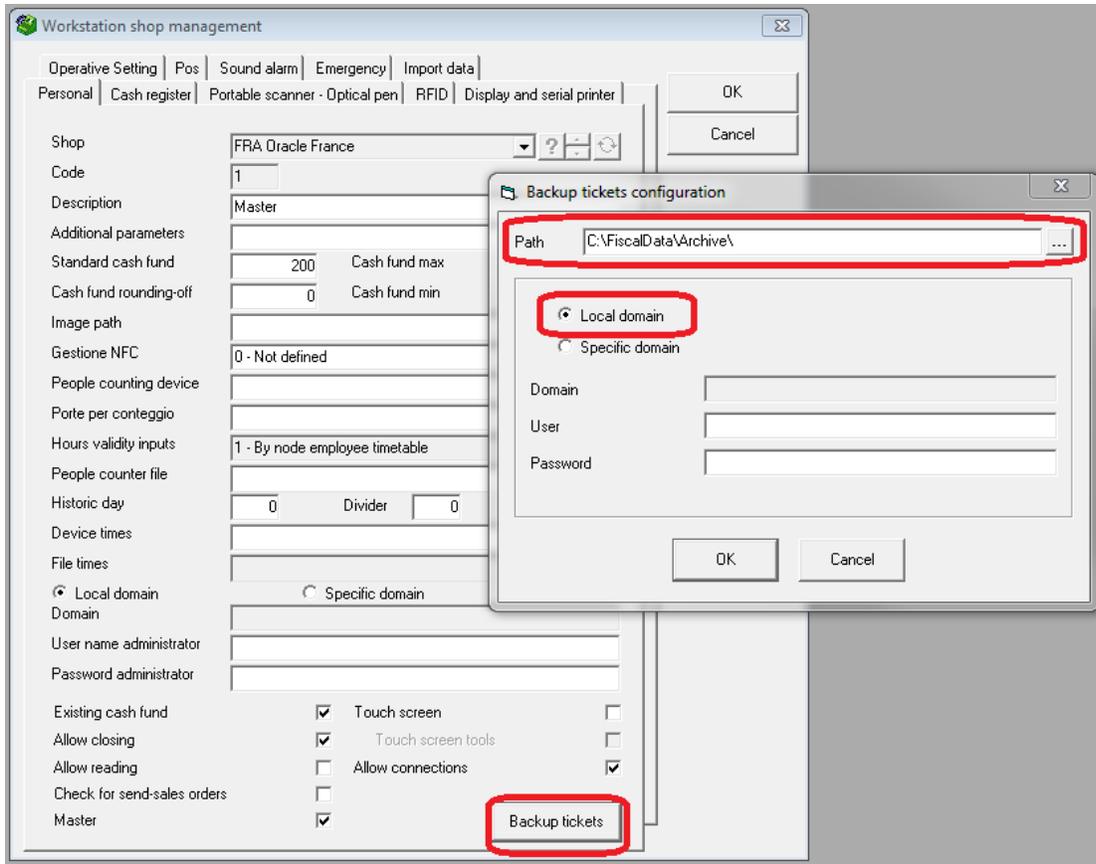
- Company name;
- Address;
- City;
- Postal code;
- Country;
- Siret number;
- NAF Code;
- TVA number;
- Shop code\description.

Heading for the receipt	Courtesy phrase for the receipt
ORACLE FRANCE 180 AVENUE DE L EUROPE MONTBONNOT SAINT MARTIN (38330) FRANCE SIRET: 33509231800310 NAF CODE: 1234567890 N.TVA: 098765421 Magasin: FRA Oracle France	

Workstation settings

Archive folder

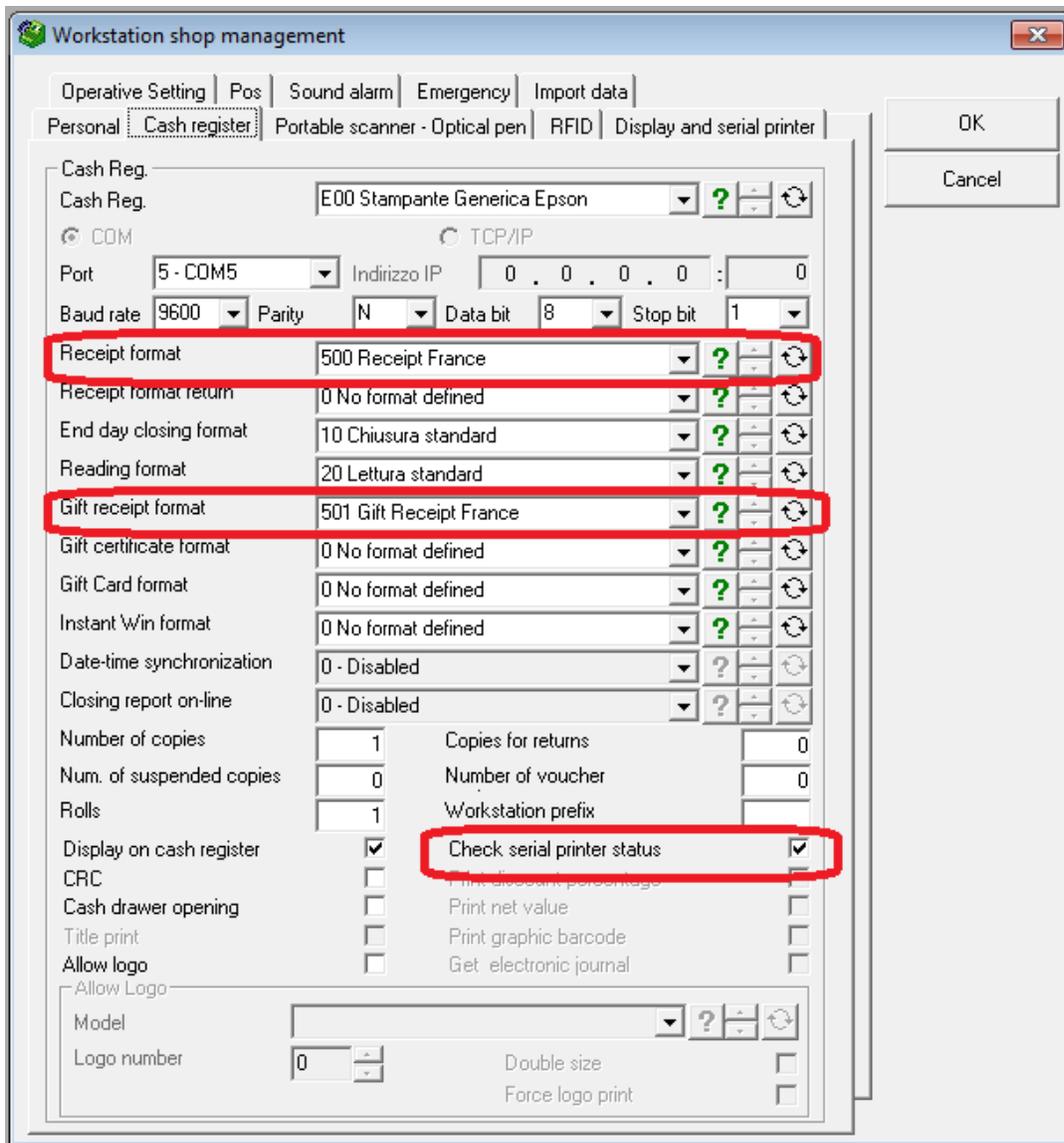
It is possible to define a local path where the program will save archive files. If the path will not be defined, the default path will be the folder "Closures" into Stores2 folder.



Print templates

For each workstation that can issue receipts, it is required to associate receipt and gift receipt templates.

It is also required to enable the check of the status of the serial printer.



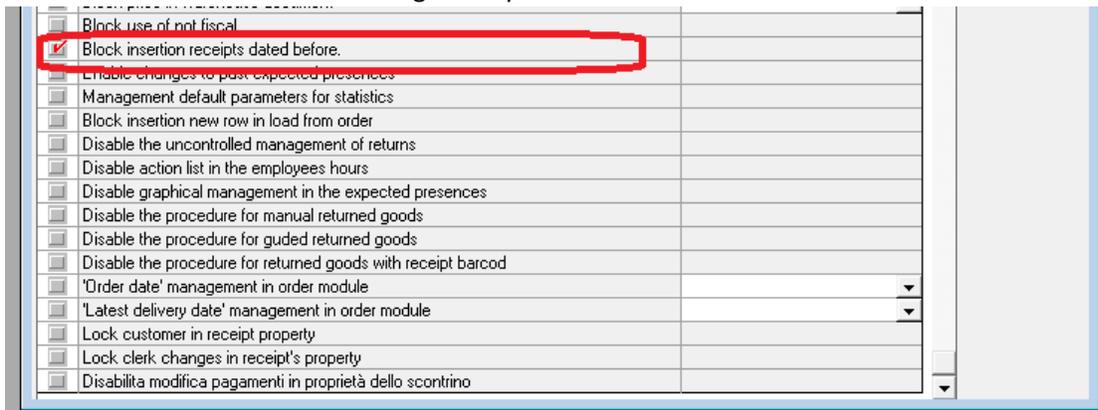
User settings

Password

The access to Stores2 need to be protected: all users must have a password.

Other settings

Users shall not be enabled to change receipts dates.



Print templates

It is required to have a template for receipts and (if used) a template for gift receipts

Receipt template

Mandatory fields on the header are:

- “Header” as the sample in the “workstation settings” defined above;
- Workstation number;
- Date and time;
- Cashier code and description;
- Indication of the “original” print;
- Version of the software;
- Receipt number.

Mandatory fields in the detail are:

- Item code and description;
- Quantity;
- Value included tax;
- Tax rate (or tax rate code).

Also the VAT recap is required and shall contains the following data:

- VAT code (if used in the detail);
- VAT rate;
- VAT excl. amount;
- VAT amount;
- VAT incl. amount.

Mandatory fields in the footer are:

- Total quantity;
- Total amount including VAT;
- Number of lines;

- Tenders;
- Signature (“B” + Cert # + Signature)

In case of customer associated to the receipt, customer data must be printed:

- First name;
- Last name;
- Address;
- City;
- Postal code;
- Country.

In case of “reprint”, the program automatically will generate a “Reprint transaction”; the header of the reprint will be different from the original one and will contain information listed below:

- “Header” as the sample in the “workstation settings” defined above;
- Workstation number;
- Date and time of the reprint;
- User who reprinted the receipt;
- Reprint number (based on global number of reprints of the workstation);
- Version of the software;
- Original receipt number;
- Original receipt date and time;
- Original receipt cashier code and description;
- Print iteration of the receipt (the first reprint shall be the print #2 and so on);

Other data shall be the same of the original receipt except the signature that will be the signature of the reprint.

Below an image that shows the certificate configuration for the receipt.

Type line	Field	Line Before	Line After	Start	Length	Alignment	Sequence	Cancelled	Duty	Text
Heading	Title	0	2	1	40	Left	1			
Heading	Workstation	1	0	1	40	Left	2			
Heading	Date	2	0	1	20	Left	13			
Heading	Hour	0	0	21	18	Right	14			
Heading	Label cashier	1	1	1	15	Left	16			
Heading	Cashier	0	0	15	25	Left	17			
Heading	Original/Copy	1	1	1	40	Center	18			
Heading	Heading description	1	0	1	40	Center	19			
Heading	Additional phrase on copy receipt	1	0	1	40	Center	21			
Heading	Label product	1	0	1	18	Left	22			
Heading	Label amount	0	0	25	9	Right	23			
Heading	Label quantity	0	0	19	5	Right	24			
Heading	Label Vat rate	0	0	35	5	Right	25			
Details	Type of record	1	0	1	30	Left	3			
Details	Product code	1	0	1	18	Left	5			
Details	Price of row	0	0	25	9	Right	4			
Details	Quantity	0	0	19	5	Right	6			
Details	VAT rate description	0	0	35	5	Right	7			
Details	Description of product	1	0	1	30	Left	8			
Details	Vat Amount	0	0	28	9	Left	12			
Line discount	Description percentage discount	1	0	2	8	Left	2			
Line discount	Discount/Surcharge percentage	0	0	12	5	Left	2			
Line discount	Discount/Surcharge amount	0	0	25	9	Right	3			
Heading discount	Description subtotal	2	0	1	25	Left	1			
Heading discount	Subtotal	0	0	25	9	Right	2			
Heading discount	Description discount %	1	0	1	15	Left	3			
Heading discount	Discount/Surcharge heading percentage	0	0	18	4	Left	4			
Heading discount	Discount/Surcharge heading amount	0	1	25	9	Right	5			
VAT summary	Taxable amount heading for rate	2	0	12	9	Right	2			
VAT summary	Heading VAT summary	0	0	21	9	Right	3			
VAT summary	Gross value heading for rate	0	0	30	9	Right	4			
VAT summary	Description T axed	1	0	1	15	Left	5			
VAT summary	Taxable amount for rate	0	0	12	9	Right	6			
VAT summary	VAT amount	0	0	21	9	Right	7			
VAT summary	Gross value for rate	0	0	30	9	Right	8			
Payments	Currency symbol Overall total	0	0	35	1	Left	1			
Payments	Sold quantity description	1	0	1	20	Left	2			
Payments	Sold quantity	0	1	21	13	Right	3			
Payments	Returned qty description	1	0	1	20	Left	4			
Payments	Returned qty	0	1	21	13	Right	5			
Payments	Overall total	1	1	1	33	Left	6			
Payments	Payment details	1	1	1	33	Left	10			
Change	Amount of change	1	1	1	33	Left	1			
Footer	Description queue	1	0	1	33	Left	1			
Footer	Certification signature	1	1	1	40	Center	2			
Footer	Courtesy phrase	1	1	1	40	Center	3			
Footer	Owner's heading	2	0	1	13	Left	4			
Footer	Description of the owner	0	0	14	26	Left	5			
Footer	Destination - heading	1	0	1	13	Left	6			
Footer	Destination - Address	0	0	14	26	Left	7			
Footer	Destination - Postal code	1	0	14	10	Left	8			
Footer	Destination - City	0	0	25	15	Left	9			
Footer	Label fiscal code	1	0	1	13	Left	10			
Footer	Destination - State	1	0	14	20	Left	10			
Footer	Fiscal code	0	0	14	26	Left	11			
Footer	Fidelity	1	0	1	26	Left	12			
Footer	Destination - Notes	2	1	1	40	Left	13			
Footer	Ticket barcode	1	0	1	40	Center	14			

Receipt format

Inserimento descrizione

Description ORIGINAL REPRINT

Code 0

Confirm Cancel

Receipt format

Inserimento descrizione

Description Stores2 POS Version: %S2VER%
Ticket de caisse # %FRA%

Code 0

Confirm Cancel

Receipt format

Inserimento descrizione

Description %ROWS%

Code 0

Confirm Cancel

“Gift” template (optional)

An additional phrase shall be printed: “NON VALABLE FOR ENCAISSEMENT”.

It could be set up with resource code 10002 or writing the phrase into the Description field.

For coupons print there isn't a template: it will be printed at the end of the print using resource code 10002.

Code: 501
Description: Gift Receipt France
Format: Receipt
Columns: 40

Exclude cancelled
 Order by

Type line	Field	Line Before	Line After	Start	Length	Alignment	Sequence	Cancelled	Duty	Text
Heading	Heading description	1	1	1	40	Center	1			
Heading	Title	2	1	1	40	Left	3			
Heading	Workstation	1	0	1	40	Left	5			
Heading	Date	1	0	1	16	Left	7			
Heading	Hour	0	0	19	13	Left	8			
Heading	Number of receipt	1	0	1	25	Left	9			
Heading	Label cashier	1	1	1	9	Left	10			
Heading	Cashier	0	0	12	23	Left	11			
Heading	Owner's heading	2	0	1	20	Left	12			
Heading	Description of the own	1	0	1	40	Left	13			
Heading	Label product	2	1	1	25	Left	14			
Heading	Label quantity	0	1	36	3	Left	15			
Details	Description of product	1	0	1	25	Left	4			
Details	Quantity	0	0	37	3	Left	8			
Details	Product code	1	0	1	30	Left	9			
Footer	Additional phrase infor	2	0	1	40	Center	1			
Footer	Ticket barcode	1	0	1	40	Left	3			
Footer	Courtesy phrase	1	0	1	40	Left	4			

Receipt format dialog box:
Inserimento descrizione
Description: [Empty field]
Code: 10002
Buttons: Confirm, Cancel

Samples

Below some samples of receipt, reprint (duplicate) and gift receipt.

Receipt

ORACLE FRANCE
180 AVENUE DE L EUROPE
MONTBONNOT SAINT MARTIN (38330)
FRANCE
SIRET: 33509231800310
NAF CODE: 1234567890
N.TVA: 098765421
Magasin: FRA Oracle France
Caisse: 1

Date: 10/01/2018 Heure: 16:58:11
Caissier: ALE Ale Mauri

Original

Stores2 POS Version: 1.39.4

Ticket de caisse # TFRA0100000022

Produit	Qté	Montant	TVA
20171001 001 XS Shirt model 1	1	29,99	(1)
20171002 001 XS Shirt model 2	1	35,97	(1)
20171003 001 XS Shirt model 3	1	15,99	(1)
20172001 002 36 Jeans model 1	1	79,49	(1)
2017S04 UNICA Theater tickets	2	40,00	(4)

	Imposable	TVA	Montant
(1) 20%	134,53	26,91	161,44
(4) 2,1%	39,18	0,82	40,00

Qté vendue 6
Total général 201,44

Contanti EUR 201,44

Nombre de lignes 5
Signature: B99994LDN



Gift receipt

*** Gift Receipt ***

ORACLE FRANCE
180 AVENUE DE L EUROPE
MONTBONNOT SAINT MARTIN (38330)
FRANCE
SIRET: 33509231800310
NAF CODE: 1234567890
N.TVA: 098765421
Magasin: FRA Oracle France
Caisse: 1
Date: 10/01/2018 Heure: 16:58:11
Ticket de caisse: 00022
Utilisate ALE Ale Mauri

Produit	Qté
Shirt model 1 20171001 001 XS	1
Theater tickets 2017S04 UNICA	2

*** NON VALABLE POUR ENCAISSEMENT ***



Duplicata 1

ORACLE FRANCE
 180 AVENUE DE L EUROPE
 MONTBONNOT SAINT MARTIN (38330)
 FRANCE
 SIRET: 33509231800310
 NAF CODE: 1234567890
 N.TVA: 098765421
 Magasin: FRA Oracle France
 Caisse: 1

Date: 10/01/2018 Date: 16:58:25
 Utilisateur: ALE Ale Mauri

 ***** DPLICATA # DFRA01000008 *****

Stores2 POS Version: 1.39.4

 Ticket de caisse # TFRA0100000022
 du 10/01/2018 16:58:11
 Caissier original: ALE Ale Mauri
 Impression #2

Produit	Qté	Montant	TVA
20171001 001 XS Shirt model 1	1	29,99	(1)
20171002 001 XS Shirt model 2	1	35,97	(1)
20171003 001 XS Shirt model 3	1	15,99	(1)
20172001 002 36 Jeans model 1	1	79,49	(1)
2017S04 UNICA Theater tickets	2	40,00	(4)

	Imposable	TVA	Montant
(1) 20%	134,53	26,91	161,44
(4) 2,1%	39,18	0,82	40,00

Qté vendue 6
 Total général 201,44

Contanti EUR 201,44

Nombre de lignes 5
 Signature: B9999Jg33



* S C R F R A 1 8 F R A 0 0 0 H *

Duplicata 2

ORACLE FRANCE
 180 AVENUE DE L EUROPE
 MONTBONNOT SAINT MARTIN (38330)
 FRANCE
 SIRET: 33509231800310
 NAF CODE: 1234567890
 N.TVA: 098765421
 Magasin: FRA Oracle France
 Caisse: 1

Date: 10/01/2018 Date: 16:58:35
 Utilisateur: ALE Ale Mauri

 ***** DPLICATA # DFRA01000009 *****

Stores2 POS Version: 1.39.4

 Ticket de caisse # TFRA0100000022
 du 10/01/2018 16:58:11
 Caissier original: ALE Ale Mauri
 Impression #3

Produit	Qté	Montant	TVA
20171001 001 XS Shirt model 1	1	29,99	(1)
20171002 001 XS Shirt model 2	1	35,97	(1)
20171003 001 XS Shirt model 3	1	15,99	(1)
20172001 002 36 Jeans model 1	1	79,49	(1)
2017S04 UNICA Theater tickets	2	40,00	(4)

	Imposable	TVA	Montant
(1) 20%	134,53	26,91	161,44
(4) 2,1%	39,18	0,82	40,00

Qté vendue 6
 Total général 201,44

Contanti EUR 201,44

Nombre de lignes 5
 Signature: B9999I3HP



* S C R F R A 1 8 F R A 0 0 0 M *

Templates script

Below SQL scripts for the templates creation.



Receipt_GiftReceiptTemplates.sql

Invoices

Layout

Invoice layout shall contains:

- Header information like the receipt;
- Product name and version (*Stores2 POS version: 1.39.4*);
- NF 525 Logo (smaller than the one in the example below);
- The indication of document type (Invoice or credit note);
- Invoice\CN Number;
- Number of the receipt;
- Invoice\CN signature ("B" + Cert # + Signature).

Below an invoice example.

ORACLE FRANCE
 180 AVENUE DE L EUROPE
 MONTBONNOT SAINT MARTIN (38330)
 FRANCE
 SIRET: 33509231800310
 NAF CODE: 1234567890
 N°TVA: 098765421



Stores2 POS version: 1.39.4

FACTURE

Date 15/12/2017
 Numero ticket de caisse FRA0100000001
 Date ticket 15/12/2017
 Page 1 / 1

Number: FRA2017000001
 Signature: B9999fNT0

A l'attention de
 Paul Chevalier
 Rue des fleurs
 12345 Paris
 Francia
 Code
 Numéro 75

Code	Description	UM	Qté	Prix	Escompte			Valeur	TVA
					% ligne	Ligne	En-tête		
20171003	Shirt model 3		1	€ 15,99				€ 15,99	20,00%
2017S01	Water 0,5		1	€ 1,00				€ 1,00	5,50%

Notes

Récapitulatif TVA

Total quantité	Taux TVA	Imposable	Impôt	Montant
1	5,50	€ 0,95	€ 0,05	€ 1,00
1	20,00	€ 13,33	€ 2,66	€ 15,99

Total Facture € 16,99
 Signature pour acceptation _____

Not managed functions

Functions

“Test environment” and “Emergency mode” are not allowed.

Checklist

Checklist

General settings

- Addresses
- Countries
- Currencies
- Translations
- VAT Codes

Shop settings

- Master data
- Sales settings
 - Main
 - Receipt option

Workstation settings

- Archive folder
- Print templates

User settings

- Password
- Other settings

Print templates

- Receipt template
- "Gift" template (optional)

Invoices

- Report layout

Not managed functions

- Test environment
- Emergency mode

Special functions

Definition

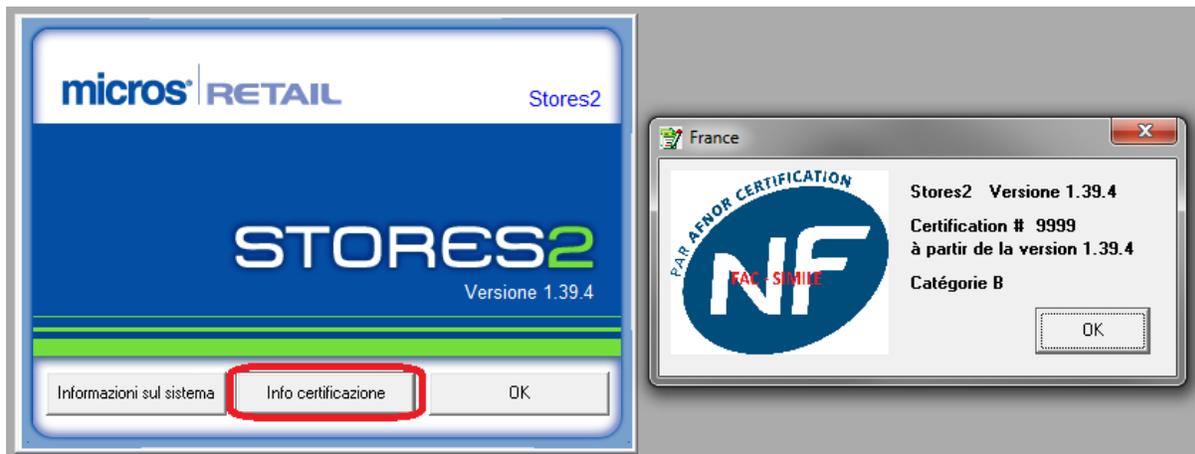
Special functions are related only to French shops.

French shops are those shops linked to a country where the cryptography algorithm is equal to “France”.

Declaration of certification

User interface

In the “About” form, a new button is shown. After the pressure of the button, the certification of declaration is shown.



Receipts

Signature

Each receipt of a workstation will have a signature linked with the previous receipt signature of the same workstation, starting from the first receipt issued after the activation of new rules.

Numbering

The numbering will be infinite, starting from 1. The number composition will be as following:

“T” + SHOP (3 digits) + Workstation (2 digits) + Number (8 digits)

Cancellation

It is allowed to cancel an existing receipt only if the related business day is already “open”.

The cancellation will decrement receipts totals.

Receipts totals

Definition

For each receipt, additional data related to receipt totals are saved into dedicated tables (SalesTotalsDetail, SalesTaxTotalsDetail).

Each record is signed and linked with the previous one.

The logic adopted to receipt totals is similar to the one adopted for grand totals.

Duplicates

Definition

The reprinted receipts must have a new electronic signature, which must be printed on the "re-printed receipt" (as per the original sales receipt).

It is important to know the number of the current copy, so it could be useful to have a property on the original transaction to keep that value. The reprint transaction must keep the specific reprint sequence number and must contain the reference to the original transaction.

Every time a user reprint a receipt, a new "Duplicata" transaction is saved, signed and linked with the previous reprint of the workstation in the new table "SalesReprints".

Numbering

The numbering will be infinite, starting from 1. The number composition will be as following:

"D" + SHOP (3 digits) + Workstation (2 digits) + Number (8 digits)

Invoices

Signature

Each invoice or credit note of the shop will have a signature linked with the previous signature of and invoice\credit note of the shop, starting from the first receipt issued after the activation of new rules.

Numbering

The numbering will be common between invoices and credit notes, starting from 1 every year.

The number composition will be as following:

SHOP (3 digits) + year (4 digits) + Number (6 digits)

Technical event log (JET)

Definition

Some special events are logged, chained and signed into a special technical event log, in the new table TechnicalEventLog.

Events logged from Stores2 are:

- "20 – Period fiscal archiving" when a new archive of a day or a month is created;
- "30 – Fiscal year archiving" when a new archive of a fiscal year is created;
- "40 – Terminal shut down / Logoff" when a user close Stores2;
- "50 – Period closing (daily/monthly)" after the closure of a period (day or month);
- "60 – Fiscal year closing" after the closure of a fiscal year;
- "80 – Terminal start up / Login" when a user open Stores2;
- "90 – Detection of an integrity defect (record or signature)" when chaining or sequence errors are found from the database tampering check;
- "150 – Printer not available (no paper, disconnected)" when there are problems with the printer entering in a new receipt or printing\reprinting a receipt;
- "190 – Ticket cancellation" when the user cancel a receipt in progress;
- "250 – New software version" when a new software update is in progress;
- "260 – Data initialization" the very first time the workstation use NF 525 settings;

- “280 – Tax audit operation” when a user run the JET events report.

Analysis

A new report for the analysis of JET entries has been defined.

Filters:

Shop
Workstation
Events
Date from

- 20 Period fiscal archiving
- 30 Exercise fiscal archiving
- 40 Terminal Shut Down
- 50 Period Closing
- 80 Start of terminal
- 90 Detection of an integrity defect (record or signature)
- 260 Initialization of data

Date from [] to []

Layout:

JET Events

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Location	Wkstn	Reference	Date - time	Operator	Code	Description
FRA	1	FRA0100000012	16/12/2017 12:16:16	FRAFRAALE	40	Terminal Shut Down <i>Information: END Stores2 execution (Workstation: FRA-1)</i>
FRA	1	FRA0100000011	16/12/2017 12:05:31	FRAFRAALE	20	Period fiscal archiving <i>Information: Created archive file: C:\Oracle\Stores2\Closures\2017\2017-12\Archive_Period_FRA_01_20171215.xml</i>
FRA	1	FRA0100000010	16/12/2017 12:05:30	FRAFRAALE	50	Period Closing <i>Information: Closure of the day: 15/12/2017.</i>
FRA	1	FRA0100000009	16/12/2017 11:45:58	FRAFRAALE	90	Detection of an integrity defect (record or signature) <i>Information: Wrong sequence for receipts from 7 to 6</i>
FRA	1	FRA0100000008	16/12/2017 11:45:58	FRAFRAALE	90	Detection of an integrity defect (record or signature) <i>Information: The signature on database for sale <FRA0100000006> is different from the one re-calculated</i>
FRA	1	FRA0100000007	16/12/2017 11:45:49	FRAFRAALE	80	Start of terminal <i>Information: START Stores2 execution (Workstation: FRA-1)</i>
FRA	1	FRA0100000006	15/12/2017 11:43:57	FRAFRAALE	40	Terminal Shut Down <i>Information: END Stores2 execution (Workstation: FRA-1)</i>
FRA	1	FRA0100000005	15/12/2017 11:42:00	FRAFRAALE	280	Tax Audit Operation <i>Information: Run JET Event Log report.</i>
FRA	1	FRA0100000004	15/12/2017 11:41:32	FRAFRAALE	90	Detection of an integrity defect (record or signature) <i>Information: Wrong sequence for receipts from 2 to 6</i>
FRA	1	FRA0100000003	15/12/2017 11:41:31	FRAFRAALE	90	Detection of an integrity defect (record or signature) <i>Information: The signature on database for sale <FRA0100000006> is different from the one re-calculated</i>
FRA	1	FRA0100000002	15/12/2017 10:18:46	FRAFRAALE	80	Start of terminal <i>Information: START Stores2 execution (Workstation: FRA-1)</i>
FRA	1	FRA0100000001	15/12/2017 10:18:46	FRAFRAALE	260	Initialization of data <i>Information: The workstation has been configured to handle French fiscal requirements.</i>

The report can be created running attached SQL script.



JET_REPORT.sql

Database tampering check

Definition

The system must be able to check if the database has possibly been tampered with, in the parts relevant for the electronic signatures:

- Sales transactions
- Sales totals
- Invoices
- Receipt re-prints
- JET entries
- Daily, monthly and yearly closures

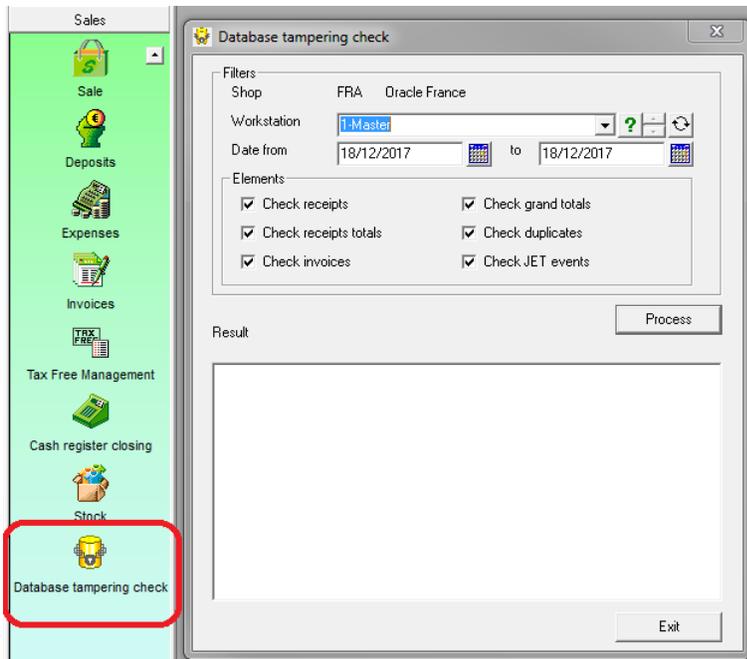
The database tampering check shall be executed “on request” and during the closure\archiving processes.

User interface

It is required to have a special function to execute the database tampering check for a defined range of dates.

The user shall be able to select the different types of data (receipts, invoice, closing, JET), a range of dates and the workstation to be checked. In case of errors, this must be notified to the user and a specific entry per each wrong transaction must be added in the log table.

A new special function, enabled only for French shops will be available in the “Sales” main menu.



Process

The database tampering check user interface shall be used for the check of signature chain and sequences for all the documents related to French fiscal requirements.

In case of issues, specific events will be logged into the JET and notified to the user who is performing the database tampering check.

The same function, without user interface, is performed during closure\archiving processes.

Grand totals (sales summary)

Definition

For each period (Fiscal year, month and day) additional data related to sales totals and tax totals are saved into dedicated tables (SalesTotals, SalesTaxTotals).

Process

When the user access in receipt management on a new business day, the program create a Workstation Sales Summary daily record for this day with zero totals.

If Workstation Sales Summary daily record is created, then Stores2 also check to determine whether a monthly record, a yearly record and a perpetual record should also be created.

During user access in receipt management, the following check are performed:

- If a sales summary daily record does not exist for this workstation on this business date, then Stores2 create a new sales summary record with zero totals for this workstation and business day.
- If a sales summary monthly record does not exist for this workstation on this fiscal year and month, then Stores2 create a new sales summary record with zero totals for this workstation and month.
- If a sales summary yearly record does not exist for this workstation on this fiscal year, then Stores2 create a new sales summary record with zero totals for this workstation and fiscal year.
- If a sales summary perpetual record does not exist for this workstation, then Stores2 create a new sales summary record with zero totals for this workstation and for the perpetual period.

Every time a receipt is issued, the program will update sales summary and tax summary of related periods with the receipt amount.

Grand total and perpetual grand total will be calculated adding absolute amount of returns to sales (so, in case of return of 50 and sale of 100, the total amount will be 150) while Sales total will be calculated deducting returns from sales (so, the total amount of the previous example will be 50).

Closures

Definition

A workstation shall have a closure performed against each day, which includes those days where either the store or the workstation was not opened.

The Workstation Daily Closure needs to close the daily summary and assign an electronic signature.

It has been decided to incorporate this function during the access of the user in receipt management function.

Also if the previous business date has not yet been closed, then a workstation daily closure will take place on the previous business date, plus any other dates prior to today's date.

The daily closure process will generate an electronic signature for the daily summary record that is being closed, and stamps it on the record.

Process

Every time the user opens the receipt management, Stores2 checks if the last daily closure is older than the day before. If so, the program will link and sign every day starting from the last one closed, eventually creating 0 records for days without receipts registered.

Before closure, an automatic database tampering check for the day is performed. In case of detection of integrity defects from the check, the user will be notified from a warning message. The process will not be stopped.

In case of new month or new fiscal year, the process will be the same. Totals of periods will be consolidated, linked and signed.

For each closure performed, a JET entry (50 or 60) is written into the Technical Event Log.

Archives

Definition

At workstation daily closure, the France POS regulations require that an xml daily archive file is produced on the Xstore filesystem, containing all relevant transactions for that day:

- All the detailed sales transactions: <Ticket>
- All the total sales transactions: <GrandTotalsTicket>
- All the closures (Daily, Monthly, Exercise): <GrandTotalPeriod>
- All the duplicates (Receipt re-prints): <Duplicatas>
- All the invoices (archived from the master workstation) <Invoices>
- JET entries: <AuditTrails>

A corresponding signature file must also be created, that contains just an electronic signature for the XML file produced.

In workstation properties should be possible to set the name of the local folder to hold the archive files on the workstation.

A sub-folder will be required for the year and sub-folders under each year for the months.

The daily archive file should be named as follows Archive_Period_SSS_WW_YYYY(MM(DD)).xml , where:

- SSS: store number, formatted to 4 digits;
- WW: workstation number, formatted to 2 digits;
- YYYYMMDD: complete date in case of daily closure.

Same archive file pairs are also required for monthly and yearly closures.

In the monthly and yearly archive files, only the appropriate closure record will be included (ie monthly closure totals, and yearly closure totals), thus, they will not contain the sales transactions, and JET entries etc.

The requirements below should take place at the end of workstation daily closure process (which currently takes place during Workstation Open).

Process

After the closure, data related to the day are exported into archive files.

For each archive file, an additional file with calculated signature is created; it is used for the verification post modification of the xml file for inalterability purpose.

Below a sample of XML archive of a day, the signature file and the XML schema.



Updates in 1.39.6

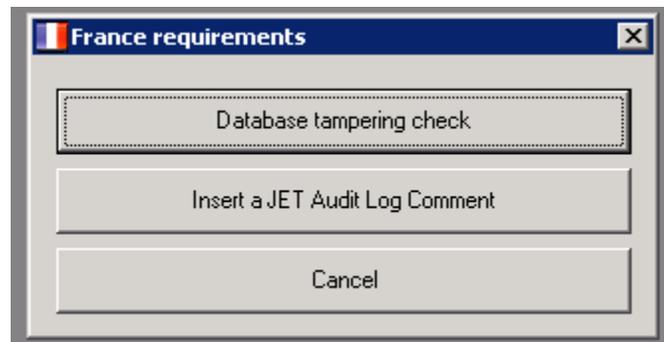
Menu entries

Starting from version 1.39.6, the button for the database tampering check menu  has

been replaced by the button “France requirements”.



Pressing the new button, the user will access to the “France requirements” menu, where the user could choose the Database tampering check option (so to open that function) or the new function “Insert a JET Audit Log Comment”



Technical Event Log

Starting from the version 1.39.6 of Stores2, new events have been added:

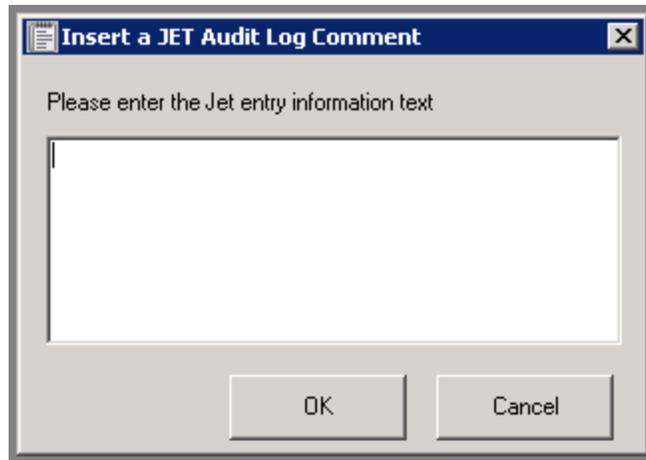
- ~~“190 – Ticket cancellation” when the user cancel a receipt in progress;~~
- “320 – Ticket cancellation” when the user cancel a receipt in progress; will replace the 190;
- “330 - Period closing (daily/monthly) - Start” before the closure of a period (day or month);
- “999 - Editors functions” will be used to log the entries from the user interface, by selecting the new “Insert a JET Audit Log Comment”.

Insert a JET Audit Log Comment [X]

Please enter the Jet entry information text

[Empty text input area]

OK Cancel



Totals and archive

The receipt totals and grand totals have an information called “Perpetual grand total” that is the sum of sales and returns (sale = 100, return = 50, perpetual grand total = $100 + 50 = 150$).

It is required to have a new grand total called real perpetual grand total (sale = 100, return = 50, perpetual grand total = $100 - 50 = 50$).

This information will also be used during the signature process, so a “signature version” will be tracked.

In the archive, the RealPerpetual and the SignatureVersion have been added to the nodes GrandTotalPeriod and GrandTotalTicket.

The updated schema is attached to this document.