

# **Mobile POS User Guide**

## LS Nav 2013 (7.1)



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## 1 Introduction

The Mobile POS is a simplified POS terminal that has a local database on the mobile device, containing the full item master as well as all other data necessary to drive the supported retail features. The Mobile POS application can interface fully with LS Nav.



## 2 Setting up the Mobile POS

The Mobile POS is set up just like any other POS Terminal. However, some specific setup is required for using the Mobile POS. The most important is:

- POS Terminal
- Functional Profile
- PLU Menu
- Currency
- Web Integration
- Web Stores

## 2.1 POS Terminal

A POS Terminal needs to be set up for Mobile POS just like any other POS. When setting it up the Mobile POS option is selected as **Terminal Type** on the **POS Terminal Card** at **LS Retail > Point of Sale > Design > Administration > General > Terminals**, create a new terminal by selecting the **New** button or select terminal from the **POS Terminal List**.

<b>/</b> ij 🗸 🚽	Home	Actions I	Vavigate									(	CRONUSv13 - Is70002_0	40613 - NUP	UR 🤅
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New	Edit \	iew Delete	Show	Show as	OneNote Notes	Links									
New	Ma	nage	05 215	View	Show Attache	d									
OS Ter	minal List	•					Туре	to filter (F3)	No.		▼ → ♥		POS General Infor	m	
orting:	No. 🔻	↓ <del>.</del>									No filters applie	d	Interface Drofiles	#UVDEC	
No.	Desc	ription		Placement	Terminal Type			Store No.	Run	Sales Typ		^	Menu Profile:	#HYPEF	, a
P0021	Cate	ing			POS Terminal			S0011	~	CATERING			Functionality Prof		
P0022	Elect	onic POS			POS Terminal			S0007					Style Profile:	#HYPEF	2
P0023	Furni	ture POS			POS Terminal			S0009					Hardware Profile:		
P0024	Hand	held POS			POS Terminal			S0010	~	OUTSIDE			Notes		
P0028	BAR-	Restaurant			POS Terminal			S0012	-	BAR REST					
P0031	POSI	with Dual Dis	olay	_	POS Terminal			S0001							
P0032	Mob	le POS - Hype	rstore		Mobile POS			S0001							
P0033	Mob	le POS - Fashi	on		Mobile POS			S0003							
P0034	iPho	e			Mobile POS			S0004							
P0035	Table	t			POS Terminal			S0001							
P0036	Table	t - Hospitality	Bar-R		POS Terminal			S0008	-	BAR REST					
P0037	Mob	le POS - Elect	ron		Mobile POS			S0007				~			
			I										1		_



Li Edi	t - POS Terminal Card - P	0032 · Mobile POS - Hyper	rstore – 🗆 🗙
HOME ACTIONS	NAVIGATE	150%	
View Kanage	o Current Copy from Current ninal Process	OneNote Notes Links	Refresh Clear Filter Page
P0032 · Mobile PO	S - Hyperstore		
General			<u>^</u>
No.: Description:	P0032 Mobile POS - Hyperstore	Exit After Each Trans.: AutoLogoff After (Min.):	10
Store No.:	S0001 V	Open Drawer at LI/LO:	00022
Placement:		EFT Store No.:	S0001
Terminal Type:	Mobile POS 🗸 🗸	Last 7-Report	30001
Profiles	#U 1/050	Terminal Statements	
Interface Profile:	#HYPER V	Terminal Connection:	
Menu Profile:	#HYPER ✓	Statement Method	Staff
Functionality Profile:	#MOBILE V	Pagaint Satura Lagation	
Style Profile:	#HYPER V	Staff Logged in:	
Hardware Profile:	¥	Forecourt Terminal ID:	
Manager Key on Return:		Terminal in Warranty Hotel:	
Return in Transaction:		Safe No.:	
Online Teres Realium	¥	Show Item Pictures:	
Backup Database		Show Item Html:	<u> </u>
buckup butubusci	¥	KeyLock Staff Perm. Group:	<b>~</b>
Dual Display			~
Display			*
Printing			*
Hospitality			*
Special Order			¥
			ОК

The **Terminal Type Mobile POS** is shown on the **POS Terminal List** when it has been set on the **Terminal Card**.

There are two options for the POS in the **Terminal Setup**: Normal POS and Mobile POS.

Terminal Type:	Mobile POS 👻		
Profiles	POS Terminal		
Interface Profile:	Mobile POS		

Define Functional Profile when using Member Management, see chapter *Functional Profile*. The printing of Headers and Footers on a receipt is set up identically to other POS.



## 2.2 Functional Profile

Best practice is to set up and use a specific functional profile for the Mobile POS. When using the Mobile POS together with the LS Retail Member Management system, the Web Service definition in the functional profile should have **Local Request** = ON. **Note:** This also depends on each user's setup.

V. V	/iew - POS Fu	nctionality P	rofile Card	- #MOBI	LE · Demonstra	tion Profile			
HOME ACTIONS NAV	<b>A</b> 11	Edi	t - POS F	unc. Profile We	eb Servers - #	#MOBILE		x	
Trans. Serve	er Setup	- HON	IE NAVIO	ATE					0
POS Location	POS Location Web Requests Actions Distribution Web Servers			📑 Card		Lō,	<b>"</b>	ß	
Profile				🕀 Web	Request Type Serv	ver Ext. 🔟	-	×	
#MODUE Demonstratio	n Drofile	New	X Delete		D	16	la Chann Attachard	illi.	
#INIOBILE · Demonstratio	on Profile	New	Manage		Process	View	Show Attached	Page	^
General	POS Func. Profile Web Servers 🔹								
Profile ID: #MOBILE				Ту	pe to filter (F3)	Priority		-   →	~
Description:	Demonstration	Priority	/ 🔻 Local	Request	Max No. of	Dist. Locati	Description		
Allow MSR Cards:	~		10	✓	0				
Automatic Stock Update:			S						~
Disable Customer Prices:								O	< l
Numeric Keypad on Tender:	~								

#### 2.3 PLU Menu

A Mobile POS specific PLU menu is defined. The same PLU menu can be used for all stores or one menu for each store intended to be used with Mobile POS. The PLU menu is assigned to the Mobile POS in the **Web Stores setup**, see the chapter, Stores Using Mobile POS, in this document.

## 2.4 Displaying Currency on the Mobile POS

The currency that is used to display prices on the Mobile POS is set according to the Currency Code selected on the **General** tab of the store card: **LS Retail, BackOffice > Store Management > Lists > Stores**, select a mobile store. If a currency code is not selected on the store card, the **LCY Code** from the **General Ledger Setup** is used.

The placement of the Currency Symbol can be decided at the LS Retail > BackOffice > Lists > Store Management > Retail Currencies, select currency, POS Terminal tab.



🏄 Edit - Retail Currency Car	d - EUR			
Home Acti	ons Report		CRO	0NUS LS 2013(7.1)W1 Demo 🕡
View Celit View Delete Manage Proc	h. Foreign Currency Balance	Foreign ency Balance Report		te Notes Links
EUR				
General				*
Code:	EUR	Unrealiz	ed Losses Acc.:	9320 🗸
Description:	Euro	Realized	Losses Acc.:	9340 👻
Unrealized Gains Acc.:	9310	✓ EMU Cur	rency:	
Realized Gains Acc.:	9330		e Modified:	18.10.2013
		Last Date	e Adjusted:	
Rounding				0,01 Nearest 💌
Reporting				· · · · ·
POS Terminal				^
POS Currency Symbol:	€	Lowest A	Accept. Denomin. Am	nt.: 0,00
Placement Of Currency S	ymbol: Before the Am	iount 🔻		
				ОК

This field controls the placement of the POS Currency Symbol in price amounts displayed in the Mobile POS.

For example if the price is 100 EUR and **Placement Of Currency Symbol** = **After the Amount**, then the Mobile POS displays  $100 \notin$  and if one chooses **Placement Of Currency Symbol** = **Before the Amount** then the amount is displayed as  $\notin$  100.

The Rounding is decided on the **Rounding** tab of the same card. The rounding in sales lines is controlled by the field **Amount Rounding Precision**. On the traditional POS, the user has full control via **Functionality Profile** but for the Mobile POS this approach is considered the best solution. However, this can be implemented differently but if the user wants to do so it requires a change in the code.



Aretail Currency Card - AED       CRONUS LS 2013(7.1)W1 Demo         Wew       Actions       Report       CRONUS LS 2013(7.1)W1 Demo         Wew       New       Exch.       Aged Accounts Receivable       Notes       Links         Wiew       New       Exch.       Foreign       Trial Balance       Notes       Links         Manage       Process       Report       Show Attached       Show Attached         General       Code:       AED       Unrealized Losses Acc.:       9320       Postor         Code:       AED       United Arab Emirates       Realized Losses Acc.:       9340       Postor         Unrealized Gains Acc.:       9310       EMU Currency:       Image       Image       Postor       Image         Invoice Rounding Precision:       0,25       Unit-Amount Rounding Precision:       0,001         Invoice Rounding Type:       Nearest       Unit-Amount Decimal Places:       2:5         Amount Rounding Precision:       0,01       Appln. Rounding Precision:       0,001										
Image       Actions       Report       CRONUS LS 2013(7.1)W1 Demo         Image       Image       Image       Aged Accounts Receivable Image       Image       Image <thimage< th="">       Image       Image</thimage<>	M Edit - Retail Currency Card - AE	0								
Image       Image <td< td=""><td>Home Actions</td><td>Report</td><td>CRONUS</td><td>LS 2013(7.1)W1 Demo 🔞</td></td<>	Home Actions	Report	CRONUS	LS 2013(7.1)W1 Demo 🔞						
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Realized Gains Acc.:       9330       Last Date Modified:         Last Date Adjusted:       Last Date Adjusted:         Rounding       0,25         Invoice Rounding Precision:       0,25         Unit-Amount Rounding Precision:       0,001         Invoice Rounding Type:       Nearest         Veal       Vinit-Amount Decimal Places:         2:5       Amount Rounding Precision:       0,001	Unrealized Gains Acc.:	9310 👻	EMU Currency:							
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Amount Decimal Places: 2:2	Amount Decimal Places:	2:2								
Reporting	Reporting			· · · · ·						
POS Terminal	POS Terminal			*						
ОК				ОК						



## 3 Web Integration, Setup

WI Setup card is at LS Retail > Web Integration > Setup.

40	E	dit - WI Setup	- 🗆 🗙
HOME ACTIONS			
View X Delete Manage	te Notes Links	Refresh Clear Filter Next Page	
WI Setup			
			^
WI in Use:	✓	Web POS Resource Locking:	
E-Commerce			^
Web Store Code:	S0013	✓ Web Store Customer No.:	44090 🗸
Web Store POS Termin	P0040	✓ Web Store Last Action Entry N	422589
Web Store Staff ID:	1301	Web Store Display Local:	
			ОК

**WI in Use**. This is used to turn on data synchronization between the NAV tables and the Mobile stores in order to activate the Mobile POS. It is further described in the chapter on Transferring Data between NAV and Mobile and the overview drawing in the Selling on the Mobile POS chapter.

**Web POS Resource Locking**. By default this option should be turned off, but can be used in case of locking problems to add the ability to activate resource locking. When the flag is set the WebPOS uses resource locking to control access to the WebPOS; that is, when turned on WebPOS requests all ask for the same resource in a locked state and therefore limit the WebPOS to service only one request at a time. This, in fact, acts as a request queue.

#### 3.1 Stores Using Mobile POS

The stores where Mobile POSs are used are selected from a list of all available stores. A possible scenario could for instance be that 30 stores out of 300 were selected and these would be the ones using Mobile POS.

The stores for Mobile POS are selected and can be viewed on the page: LS Retail > Web Integration > Administrations > Web Stores



Home Home	Actions				ecomm2013082	7 - ecomm70003 🔞
New View List	Edit List Manage	e Create PO Startup Da	S Show Si as List	how as Chart	te Notes Links	
WI Store -		$\square$		Type to filter (	(F3) Store No.	• → •
Sorting: Store N	lo. ▼ Az↓▼					No filters applied
Store No.	Status	PLU Menu	PLU Menu ID	Last Action		
S0001 V	Enabled	#HYPER	MOBILE-PLU	191903		
S0003	Enabled	#FASHION	MOBILE-PLU	191903		
S0004	Enabled	#FASHION	MOBILE-PLU	191903		
S0007	Enabled	#ELECTRON	MOBILE-PLU	191903		
S0013	Enabled	#FASHION	MOBILE-PLU	191932		

The **PLU Menu Profile** and **PLU Menu ID** columns are used to select where PLU-menus are used. A PLU-menu is defined for each Mobile store and Mobile POS. The PLU-menu is used to display frequently sold items.

The **Last Action** column is a replication counter that shows the last action in replicating data from NAV to the Mobile POS.



## 4 Transferring Data between NAV and Mobile

The very first time the Mobile POS is used, the **Create POS Startup Data** action must be executed. It is located on the Web Store (WI Store) and must be run for one store at a time. This action copies data to the "MobileXXX" tables from where it will be replicated to the mobile device.

A scheduled job runs a codeunit, WI Mgt (10012860) to create the data for the Mobile POS. It takes the information from tables in the NAV database and inserts it to Mobile-specific tables within NAV. These tables do not have an interface and are solely used to provide data for the Mobile POS. The data retrieved from NAV is data connected with the following functionality:

- Items
- Item Prices, where the "almost price" is used
- Customers
- Discounts
- Units of Measure
- Staff
- Stores
- Terminals

The process where the "almost price" is used until the final price has been found goes through the following steps:

- 1. The customer is found and the Customer Discount Group is taken into account.
- 2. If he/she is a member according to the Member Management system, the **scheme** that he/she belongs to is used. This is further defined in the Member Management User Guide.
- 3. Next the valid price in the store is checked.
- 4. If the purchase is multibuy then the multibuy discount is added.
- 5. If a promotional discount is available then it is applied at this stage.
- 6. After all this has been checked, web-services are called and they will present the correct price at this point.
- 7. Only then periodic discount can be calculated.

This procedure is similar to the NAV POS but has been adapted for the Mobile POS as needed.

The replication starts when the LS Omni POS app is started on the iOS device. **It is important that the Store ID and Terminal ID are the same on the device as in NAV**. On the iOS device, tap on the Settings icon and open the "LS Omni POS" settings.

Carrier 奈 1:47 PM 📼	Carrier 🗢 1:47 PM 📼	Carrier 🗢 1:47 PM 📼
Settings LS Omni POS	Settings LS Omni POS	Settings LS Omni POS
Device Connected	Replication	Update Frequency (minutes) 60
Device	Store ID S0004	Full replication next OFF
None 🗸	Terminal ID P0033	Server settings
Verifone VX600		Base URL http://bunga.lsretail.local/
	Opdate Frequency (minutes) 60	Timeout (sec) 30
Training Mode	Full replication next OFF	Version (read only) 1010
Training Mode OFF	Server settings	
Barcode Scanner	Base URL http://bunga.lsretail.local/	Debug Settings
Continuous Scanning OFF	Timeout (acc) 20	Enabled ON
		Xamarin Studio Host automatic
Replication	Version (read only) 1.0.1.0	

The **Store ID** is used by the replication to get data for this store.

The **Terminal ID** must match the mpos terminal in NAV.

**Full replication next** is by default ON at first startup and is changed to OFF after the first successful replication. It can be changed back to ON to force a full replication the next time the app is started.





## 5 Selling on the Mobile POS



When you enter the Mobile POS a menu including a few options is available. For sales, the **Sale** option is selected.

Sales on the Mobile POS are similar to sales on the conventional POS. Details and exceptions, such as suspended and retrieved sales are listed in the following chapters.

After an ordinary sale on a Mobile POS it is posted and a receipt is either printed out on an OPOS printer or sent by e-mail to the customer. Mostly this happens just like on an ordinary POS and the functionality is similar but there are certain limitations:

- 1. No popups or infocodes can be shown contrary to what happens on the conventional POS.
- 2. On the Mobile POS cash and cards can be accepted.
- 3. Tender discounts cannot be used.









The **PLU-menu** on the Mobile POS can display the most frequently bought items as pictures.

💵 Vodafone IS 🗢	15:20 1 🗈					
Back F	Payment					
Total:	\$ 27,50					
Discount:	\$ 2,75					
Tax:	\$ 4,95					
Payment:	\$ 0,00					
Balance:	\$ 24,75					
Pay cash						
Pay card						
Send to register						

After the item(s) have been selected and sales are concluded, the Payment menu is entered. It shows the **Total** amount of the purchase, **Discount**, if that option is used and **Tax** as well as the **Balance**. For payment there are two options available:

- Pay card
- Send to register



If the **Pay card** option is selected, a simple procedure is entered and payment is done by card. If the **Send to register** option is selected, the payment is suspended but can be retrieved. This might happen for instance if a customer is buying a washing machine and the sale has been entered on the Mobile POS there, but then he or she wants to buy something else in another department of the store. Then the option **Send to register** is selected and the sale later retrieved in the other department and added in case something is bought there. In the chapter on suspending and retrieving sales this functionality is explained in more detail.

## 5.1 Suspending and Retrieving Sales

A sale can be suspended at any time on the Mobile POS. When a sale is suspended, it is simply on hold in the NAV system. Later it can be retrieved through web-services on the same POS or another one. When the sale is retrieved, it doesn't matter on which kind of POS it is done, a conventional POS or Mobile POS.





## 6 Operations on the Mobile POS

## 6.1 Sales History

The latest transactions on the Mobile POS will be displayed on the POS, giving an overview over the sales history. This information is derived from LS Nav.

Back	Select varia	nt	
Item name		Qty	Total
Dining Table	(6 persons)	-1	-750
Chair ANNA		-6	-1290

## 6.2 Offers and Coupons

The offers and coupons for the account used on the Mobile POS will be shown on the POS. This information is derived from the corresponding tables in LS Nav.

Back Loyalty cor	tact				
Gold	<b>8326</b> Points				
Tom Thomson	Colf				
10 Blickford street	Football				
	Camping				
1 Q1	Hiking				
tom@tom.com	Daskelball				
Coupons					
Special Trophy offer - 25% off					
Great deal on Trophies, both la	ge and small sizes				
Point offers					
Member offers					
General offers					
0-#T					
History Add to transaction					



#### 6.3 Contact and Item Lookup

You can use the lookup option in many ways. For instance you can look up a Loyalty Contact either by QR-code or Phone number or an Item by its Item number.

Vodafone	IS ᅙ 4:13 PM	1
Back	Lookup	
	Loyalty Contact	
	Scan QR code	
	Enter phone number	
	Item	
	ltem lookup	
L		



#### 6.4 Lookup for Items in Stock

If you need to look up how much is in stock for some item it can be looked up on the Mobile POS, both for items in stock or out of stock.

😑 🗳 👪 🔎 🏢
Hat Davi-s Casual \$ 37.50 Qty: 1 1 in stock \$ 37.50 - + Void Discount
Items: 19 Disc: \$ 0.00 Tax: \$ 186.75
■I Vodafone IS 📀 4:15 PM 🦪 🗖
Bag Linda. \$ 37.50 Qty: 1 Out of stock \$ 37.50
Bag Linda. \$37.50 Qty: 1 Out of stock \$37.50 - + Void Discount Bag Linda
Bag Linda. \$ 37.50 Qty: 1 Out of stock \$ 37.50 • Void Discount Bag Linda Smart and stylish bag for the lady in all ages



You can also look up Inventory in different stores.

📶 Vodafone IS 🛜 4:17	PM 1
Back Inver	itory
Cronus Super Marke Southstreet 1000, M61 2YC	t South a, Manchester -10
Cronus Food Market North Avenue 10000, MK41	North SM 5AE, Bedford
Cronus Fashion Stor North Avenue 10010, MK41	e North I 5AE, Bedford 3
LS Retail Default Sto Central Avenue 10, W2 8H	re G, London -5
Cronus Restaurant Longhorn Street 10, WC1 3	DG, London

## 6.5 Cross-Selling Items

The Mobile POS supports cross-selling items. Select an item that has suggested cross-selling items. The list of cross-selling items is displayed via the cross-selling token







An item selected from the cross-selling item list is added to the transaction.

## 6.6 Online Application

The application functions in online mode only through a Real-time connection to the back-end system available either through Wi-Fi or a means provided by the cellular network (3G/4G). The application supports complex prices and discounts via a web service call to the back-end system, accessing a transaction calculation service which returns a fully calculated transaction, including tax group break-down information.

The application must be localizable for all current LS Retail markets.

#### 6.7 Mobile POS Print

The setup for the POS External Printers has to be set up for external printers. It includes a Hardware Profile from LS Nav. Three new fields have been added; two need to be filled out but the third is optional. These are for:

- **Printer Remote**: Place a check mark in this field to use external printer.
- **Printer Server Host**: This field needs to be filled out for an external printer.
- **Printer Server Port**: This field can optionally be filled out, but if it is not, the default port (16650) will be used.

On the Terminal Server: **POS External Printer** is selected and then it will be used for printing.

P



Please note, the Mobile POS uses an external print service that reserves and claims the printer. As the Nav stationary POS is not using this external print service, the same printer cannot be used for both Mobile and stationary POS, at the same time.

#### 6.7.1 Setting up OPOS External Printers for Mobile POS

- 1. Run PrintingStation-Install from the folder: LS Retail\LS7.00.02\Setup
- 2. Configure printing for the **Hardware Profile** used on the Mobile POS terminal as in the example:

// Edit - POS Hardware Profile Card - EIDUR_TMH6					
Home Action	s Navigate				
Vew Delete Manage Pro	Where Used occess Show Attached				
EIDUR_TMH6					
General					
Profile ID:	EIDUR_TMH6				
Printer					
Printer:	OPOS 🗸				
Printer Device Name:	тм-н6000ш				
Printer Description:					
Printer Impl. DLL:					
Printer Impl. Type Name:					
Printer Remote:					
Print Server Host:	lap_eidur				
Print Server Port:	0				
No. of LF at Receipt End:	25				
Left Margin on Receipt:	0				
No. of Lines on Invoice:	0				
No. of LF at Invoice Top:	4				
Print Discount Detail:					
Printer Bold:	<27><124><98><67>				





🏄 Edit - Po	OS Exterr	nal Printe	rs	1.000			
<u> /ii</u> -	Home	Actio	ns			Oskarsson Con	npany 🔞
New New	View List	Edit List Manage	Delete				
POS Ext	ernal P	rinters	• Тур	e to filter (F3)	ID	•	→ 🖌
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ID		Text		Hardware P			
EIDURH	16000	TM-H600	0II on lap	. EIDUR_T 👻			
						Γ	OK

4. Assign the External POS Printer to the Mobile POS:

🍌 Edit - POS Terminal Card	- P0037 · Mobile POS - Electron			- • ×
Home Actio	ns Navigate			0
View Copy Manage	to Current Copy from Current Terminal Process	2 Inks		
P0037 · Mobile POS -	Electron			
General				•
Dual Display				~
Display				~
Printing				^
Slip if Return: Receipt Barcode: Print Receipt BC Type: Receipt Barcode Width: Receipt Barcode Height: Print VAT Refund Checks Rec. Printing Off by Defan	None	<ul> <li>Print Receipt for Neg. Adj.:</li> <li>Print Suspend with Prepayment:</li> <li>Print Number of Items:</li> <li>Print Total Savings:</li> <li>Print Receipt Bitmap No.:</li> <li>Print Receipt Logo:</li> <li>Send Receipt as e-mail:</li> <li>External Printer ID:</li> </ul>	0 	
Hospitality				<b>~</b>
Special Order				~
Inventory Mgmt				•

**(S** LS Retail