

# *ASPluris™ V2.2*

## *Installation Manual*



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**Data Technology**  
Hardware • Software  
Design • Consulting

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## *Introduction*

This document is intended for installers and partners who are installing and configuring ASPluris for the end user. The information presented here is not necessary for the everyday use of ASPluris.

The logical order for installing ASPluris is:

1. Install the ASPluris Web Service.
2. Register the ASPluris Web Service.
3. Configure the Wi-Fi settings on each barcode terminal.
4. Configure the Web Service URL on each barcode terminal.
5. Configure Ostendo.
6. Modify the ASPluris.config file as required.

Instructions for each of these tasks is included in this document.

Note that we have included the **Using the Barcode Terminal** section from the ASPluris User Guide at the end for completeness.

## Installing the ASPluris Web Service

The ASPluris Web Service is normally installed on the computer where the Ostendo database is located, for speed and efficiency reasons.

To install the ASPluris Web Service, insert the installation CD into your CD/DVD drive – it should start automatically. If it doesn't, select RUN from the Windows Start menu, then type **x:\setup** (where **x:** is your CD/DVD drive letter).

If you have downloaded the ASPluris Web Service, simply run the setup.exe file.

Then just follow the on-screen instructions.

Once the installation is complete, you will need to register the ASPluris web service to enable the program modules and licences.

## ASPluris registration

To register the ASPluris service, go to the **computer where the service is installed**. Open a web browser (for example, Internet Explorer), then type the following URL into the address bar:

<http://localhost:5171/Web/Start.aspx>

This will open the **ASPluris Web Service** screen as shown in the screen fragment on the right.

Click on the **Registration** link at the bottom, to display the **ASPluris**

**Registration Form**, as shown on the next page.



This screen shows the registration and licence status of the **ASPluris Web Service**.

To register the service, or to enter a new registration code to enable more users or different modules, you need to provide the Hardware Fingerprint and the name of the company that the service will be registered to. This information, together with the number of users you want to have and which modules you want to use, will be used to create a Registration Code for this installation.

### ASPluris Registration Form

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**Current Registration:**

Registered:	Yes
Hardware Fingerprint:	A1B5-3395
Registered To:	ASP
Registration Code:	0P0H94-MWTC0F-TTX714-00CURE-WWV1QC

**Licence Information:**

Number Of Units:	6
Modules Enabled:	PickAndPack, ReceivePurchaseOrders, Manufacturing, LabelPrinting, Consolidation, ScanPack, StockAdjustment, PutAway
Version:	2.20
Host:	HV2012-W7x64

**Enter New Registration:**

Hardware Fingerprint:	<input type="text" value="A1B5-3395"/>
Registration Name:	<input type="text"/>
Registration Code:	<input type="text"/>
<input type="button" value="Register"/>	



Note the **Host:** information on this screen – you'll need it to configure your terminals – see page 6.

When you enter the **Registration Name** and the **Registration Code** into the fields at the bottom of this screen, the **ASPluris Web Service** will be registered and the licenced number of users and the licenced modules will be enabled.

Note that Registration Codes are specific to a particular program, the computer the program is running on, and the name the program is registered under. You cannot use a registration code on any other computer, or for any other program.

## ASPluris service management

The other three links, **Info**, **Units**, and **Log**, at the bottom of the **ASPluris Web Service** screen shown on the previous page, provide management information and facilities.

These facilities would normally only be used by your Ostendo or ASPluris Partner.

### *The Info screen*

The Info screen displays the current values of various configuration items. Note that you cannot change these values from this screen.

### *The Units screen*

If you have more physical terminals than you have licences for, you can use the **Units** screen to remove terminals so that other terminals can be connected.

The first time that a terminal is used with ASPluris, that terminal registers itself with ASPluris, and remains registered.

If you have, for example, seven actual terminals but an ASPluris licence for only six terminals, everything will be fine until you try to use the seventh terminal.

When the seventh terminal tries to register itself, ASPluris will refuse the registration, and the terminal will display a message to that effect.

If you want to use the seventh terminal, you will need to remove the registration for another terminal first. You can do this from the **Units** screen, as shown on the right.

#### ASPluris Units

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ASPluris Registered Terminals / Scanners	
Serial Number:	007E1200748AAAA1
Model	DTX8-CE
Running Since	29/07/2013 2:47:00 PM
Application	ASPluris Client
Application Version	2.1.0.18
User	John Redmond
Logged In	29/07/2013 2:47:10 PM
Last Operation	ReceiveDbStore
<input type="button" value="Delete Terminal"/>	
Serial Number:	00881800527AAAA1
Model	DTX8-CE
Running Since	30/07/2013 3:08:21 PM
Application	ASPluris Client
Application Version	2.1.0.18
User	Peter
Logged In	30/07/2013 3:08:22 PM
<input type="button" value="Delete Terminal"/>	

In this example screen (on the previous page), two terminals are registered.

To remove the registration for a terminal, simply click on the **Delete Terminal button** for that terminal. You can identify terminals by their **Serial Number**, which is shown on the Units screen, or possibly by the **User**.

Note that it is possible for you to delete the registration for a terminal that is actually in the middle of an operation, and then register a new terminal. If that leaves you without any spare terminal registrations, you need to be aware of what will happen.

The next time that the deleted terminal tries to send data back to ASPluris, it will fail and display an error message explaining that it was unable to register. However, the data is not lost – it is retained in the terminal until that terminal is again able to register and connect to ASPluris.

So, if you do manage to “pull the rug out from under” a terminal, you just need to put the rug back and everything will work properly again. That is, you need to delete the registration for another terminal to allow the “rug-less” terminal to connect again.

## *The Log screen*

---

The Log screen displays a comprehensive list of the results of the internal transactions and operations of the ASPluris program. This log information may be useful to your Ostendo or ASPluris Partner in resolving any problems that may arise.

## Barcode Terminal Configuration

The barcode terminals connect to Ostendo using your Wi-Fi network, so before you can use the terminals, you'll need to configure the Wi-Fi settings on the terminals.

### *Wi-Fi Configuration*

---

To configure the Wi-Fi settings on the Casio DT-X8 scanner, you first need to exit from the ASPluris program. You can do this by going to the **Main Menu** and selecting **Logout**. Then, on the **Login** screen, tap the **X** icon to exit the program, then confirm by tapping the **Yes** button.

Next, tap on the **Start button** at the bottom left of the Windows Desktop. Select **Settings** from the menu that pops up, then select **Control Panel**. Scroll down to the bottom and select **WLAN settings**.

On the **Basic tab**, enter your wireless network's **SSID**, and select the Security (most likely **WPA** or **WPA2**).

If you selected **WEP** security, select your key length and enter your key. The terminal's **On-Screen Keyboard (OSK)** can make it easier to enter the key, but it's still unfortunately not an easy job.

If you selected **WPA** or **WPA2** security, select the **Authentication** (most likely **PSK**), and enter the **WPA/WPA2 key**. The **OSK** will also help here.

On the **IP tab**, the easiest option is to select **DHCP**, but you can also enter a static IP if required.

On the **WLAN tab**, the **Adapter Power** option can be left set to **Off** and the **Power Save** option can be left set to **Disable**. The **Standard** option must be set to the same as your Access Point (most likely **B/G**). The **RSSI level** can be left set to **Default**, which is **-78dBm**.

On the **Detail tab**, the **WLAN configure** option can be left set to **WLANConfig/NetSearch**, and the **Enable adhoc** and **Enable All** options can be left set to unchecked. Do not change anything in the **Advance Settings** section.

Tap the **OK** button to save your settings.

## Terminal Configuration

The only configuration item that is set directly on the barcode terminals is the URL of the web service. The host name part of this is shown on the **Registration screen** of the **ASPluris web service** configuration screen – see page 2.

The **Server URL** consists of the host name and the TCP/IP port number. In the example Registration screen on page **33**, the host name (of our example computer, not yours!) is:

HV2012-W7x64

By default, the ASPluris web service uses the TCP/IP port number **5171** (this can be changed using Microsoft IIS if it conflicts with another program already using that port).

Put them both together with a few slashes and stuff, and you get:

`http://hv2012-w7x64:5171/`

This is the **Server URL** that must be entered into the Setup screen of the scanner program. You can get to this screen by going to the Main Menu on the scanner and selecting **Logout**, then clicking on the **Configuration** icon at the bottom of the screen.



Remember to enter the host name of your own computer, not our example.

The screenshot shows a mobile application interface titled "Setup". At the top, there is a "Server URL:" label followed by a text input field containing "http://hv2012-w7x64:5171/". Below this is a button labeled "Clear Cached Data". At the bottom of the screen, there are three navigation buttons: a green left-pointing arrow, a green question mark, and a green checkmark.

There are also a number of options that affect how the barcode terminals work, and these are set in a configuration file called **ASPluris.config** which is located on the computer that runs the web service. These are not user configurable settings – they are designed to be configured by your Ostendo or ASPluris partner.

See **The ASPluris.config file** on page **12** for more information on the **ASPluris.config** file.

## Configuring Ostendo

Before ASPluris can be used with Ostendo, a number of modifications and additions must be made to the Ostendo database.

Open Ostendo, and go to the **File** menu. Select **System Configuration**, then select **User Defined Tables**, as shown on the right.

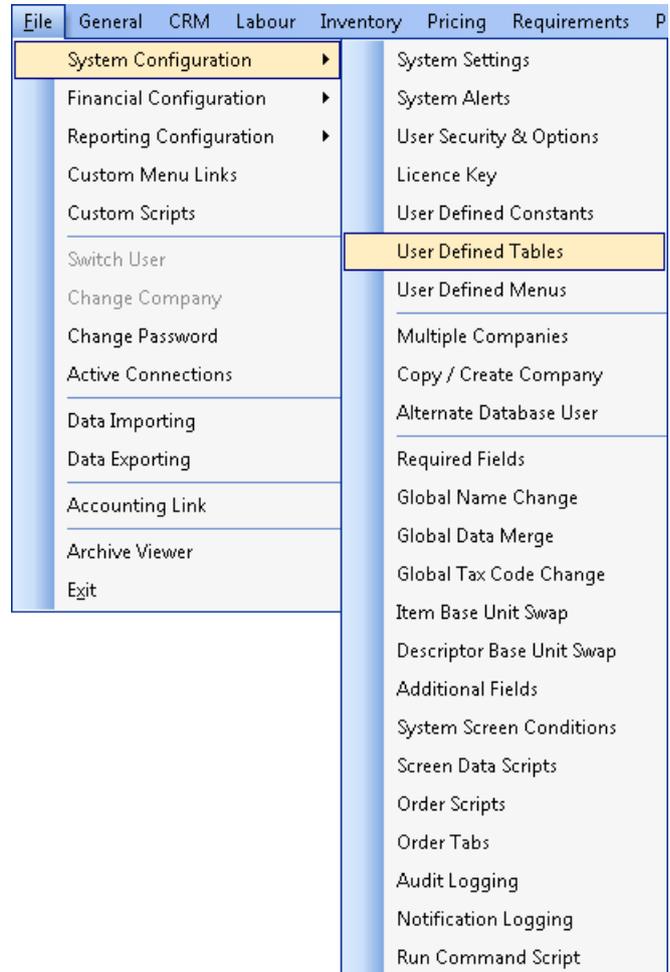
This will open Ostendo's **User Defined Tables** screen.

On the right side of this screen, click on the **Import** button.

This will open a standard Windows **File Open** screen. Navigate to one the following folders – use the first one if you have a 64-bit operating system, or the second if you have a 32-bit operating system:

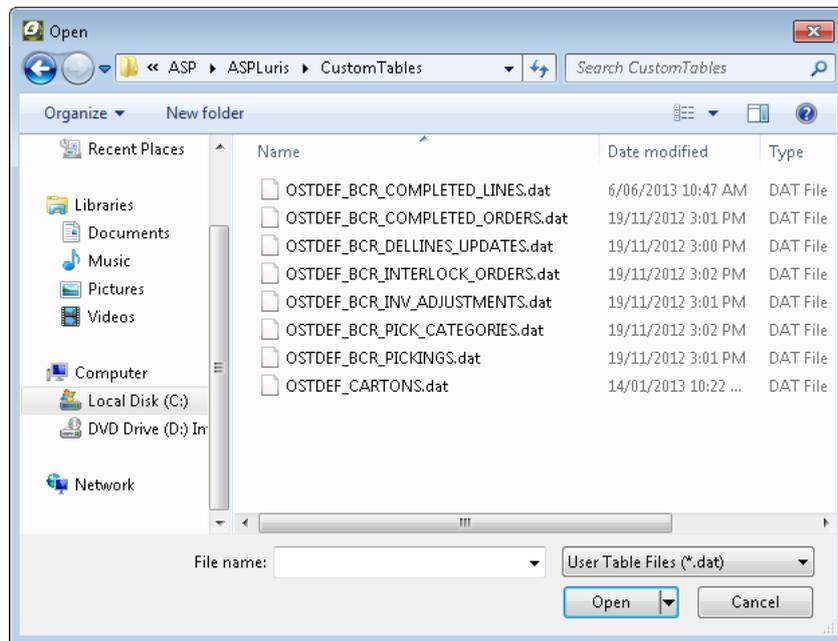
**C:\Program Files (x86)\ASP\ASPluris\CustomTables**

**C:\Program Files\ASP\ASPluris\CustomTables**



You can't actually go to the wrong folder – one of the above folders will simply not exist on your computer.

This will open a screen showing a number of custom tables that need to be added to Ostendo to support ASPluris (as shown on the next page). You need to select each of these files one by one to add them to the Ostendo database.



Double-click on the first file listed on the screen (as shown above) to run it. This screen will then close, and you'll need to click on the **Import** button to open it again.

Then, double-click on the second file listed on the screen to run that file. Click on the **Import** button again, then double-click on the third file.

Continue the same process until you've run every one of the files listed on the screen above.



If you do not run all of these files, ASPluris will not be installed correctly.

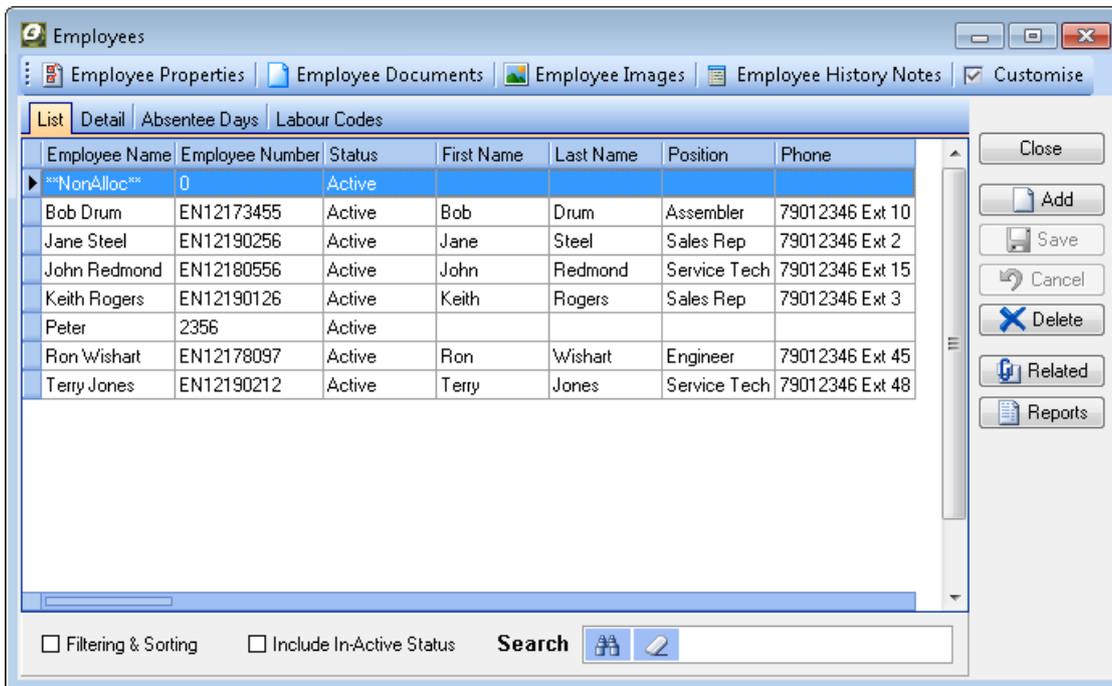
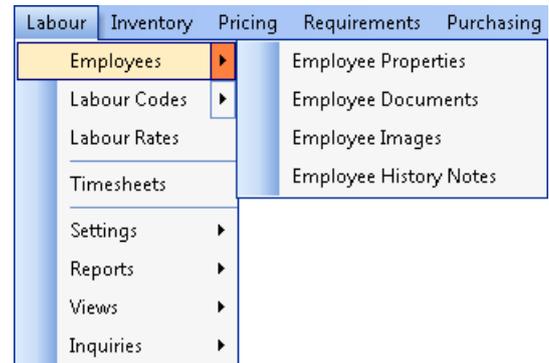
## Checking your Ostendo database

You'll also need to check a few things in your Ostendo database – employees, warehouses and locations, and barcodes.

### *Employees*

You should already have your employees entered into Ostendo, but if you don't, click on the **Labour** menu and select **Employees**.

This will open Ostendo's **Employees** screen, as shown below.



From this screen, you can add your employees, or make changes or delete existing employees.



Note that employees who will be using the barcode terminal(s) must be listed **Employees** in Ostendo, with their **Department Code** set to **WAREHOUSE**.

## Warehouses and Locations

You should also already have your Warehouses and Locations entered into Ostendo, but if you don't, click on the **Inventory** menu and select **Warehouses** and/or **Locations**.

From these screens, you can add your Warehouses and Locations, or make changes or delete existing Warehouses or Locations.

## Barcodes

Configuring barcodes in Ostendo is probably something that you will need your Ostendo partner's help with.

There are three ways to assign a barcode to an item. By default, an item's item code can be used as its barcode.

You can also assign a barcode to an item via the item's **Barcode** field. Both these barcodes use the item's default unit of measure.

You can also add other barcodes to an item, each with their own unit of measure. This allows you, for example, to have different barcodes for different quantities of a single product – perhaps one barcode for a single can of an item, and another barcode for a carton of 12 cans of the same item.

Your Ostendo partner will be best placed to advise you on how to achieve the best results for your business.

## The ASPluris.config file

The **ASPluris.config** file is located in the following folder on the computer where the ASPluris Web Service is installed:

**C:\ProgramData\ASP Microcomputers\ASPluris**



The ASPluris.config file is a plain text file, intended to be modified with a text editor such as Windows Notepad. **Do not, under any circumstances, open this file with a Word Processor or any other application.**

Note that changes made to the ASPluris.config will not take effect until you log out of a scanner and log in again.

You can view the settings in this file at any time by going to the computer where the service is installed and opening a web browser (for example, Internet Explorer). Type the following URL into the address bar:

<http://localhost:5171/Web/Start.aspx>

Then, click on the Info link. Note that you cannot change the settings from this screen.

---

## The [APPLICATION] section

---

The options in this section control the basic operation of the scanner program, and are listed under the [APPLICATION] section of the configuration file.

You must not manually change any settings shown here in **red** – they are set by the ASPluris service, and indicate and identify the application settings. They are listed here only for completeness.

**ServerDateTime=41507.0647699306**

**RegistrationModules=PickAndPack,  
ReceivePurchaseOrders, Manufacturing, LabelPrinting,  
Consolidation, ScanPack, StockAdjustment, PutAway**

**RegistrationIsDemo=False**

**RegistrationExpired=False**

**RegisteredTo=ASP**

**RegistrationDaysLeft=0**

**RegisteredUnits=6**

**ServiceVersion=2.2.1.2**

**Database=n/a**

**Company=ASP**

This setting is not documented in this release.

**PalletMatchPattern=**

If this setting includes a **RegEx** (see page **33**), scanned Pallet barcodes will be verified against the specified RegEx and only accepted if there is a match.

Leave this setting blank to allow any Pallet barcode.

## ConnectionString=

The connection string allows connection to different databases and/or hosts. The fields in this setting are in **key=value** pairs delimited by the semicolon, as shown below. Note that this string must appear as a single line – because of the limited space here, it has wrapped over several lines.

```
ConnectionString=initial
catalog=C:\ProgramData\ASP
Microcomputers\ASPLuris\Ostendo(demo).fdb;user
id=SYSDBA;password=masterkey;pooling=false;data
source=127.0.0.1
```

The main fields that may appear in the **Connection String** are:

```
initial catalog=C:\ProgramData\ASP
Microcomputers\ASPLuris\Ostendo(demo).fdb;
```

This field sets the database alias or the full path to the database file. Note that this string must appear as a single line – because of the limited space here, it has wrapped over several lines.

```
User ID=SYSDBA;
```

This field sets the username for connection to the database.

```
Password=masterkey;
```

This field sets the password for connection to the database.

```
Pooling=false;
```

If this option is set to **True**, Connection Pooling is enabled. Set this field to **False** to disable Connection Pooling.

```
Data Source=127.0.0.1;
```

This field contains the name or IP address of the machine on which the Firebird server is running (eg `localhost`).

```
Port=3050;
```

The port number which the database server listens on. If not specified, the default port of `3050` is used.

Other fields that may appear in the **Connection String** are not documented in this release.

**SSCC\_Prefix=9321264**

This setting is not documented in this release.

**HideModules=**

This setting is not documented in this release.

**CompressDataTransfer=False**

This setting is not documented in this release.

**PrintPalletBarcodes=False**

This setting turns printing pallet barcodes functionality on or off. The default setting is off (**False**). Set to **True** to turn on.

**PrintServerAddress=**

This sets the print server address, which is used for printing carton labels and/or pallet labels

**LocationMatchPattern=**

If this setting includes a **RegEx** (see page **33**), scanned Location barcodes will be verified against the specified RegEx and only accepted if there is a match.

Leave this setting blank to allow any Location barcode.

**WarehouseVisibility=**

This setting is not documented in this release.

## The [CLIENT] section

---

The options in this section control the basic operation of the scanner program, and are listed under the [CLIENT] section of the configuration file.

### Token=

This setting is not documented in this release.

### EmployeeDepartments=

If this setting is left blank, all employees will be listed on the login screen.

If one or more departments are specified, only employees from those departments will be listed. When more than one department is listed, separate the departments with semicolons.

### Employees=

If this setting is left blank, all employees will be listed on the login screen.

If one or more employee names are specified, only those employees will be listed. When more than one employee name is listed, separate the names with semicolons.

### UpdateUrl=www.asp.com.au

This setting is not documented in this release.

### AllowScanningEmployeeId=False

If this option is set to `True`, employee ID barcodes can be scanned as well as selected from a list.

If set to `False`, employee IDs must be selected from a list.

### ExitPassword=

If a (plain text) password is specified here, the user will be prompted for a password when they exit the scanner program.

If this option left blank, users can exit the scanner program without a password.

### Restrict\_QtyOnHand\_ToTheFollowingWarehouses=

This setting is not documented in this release.

**BarcodeTranslation=0**

This option controls whether translation (ie editing) is performed on barcodes. This option can be set to the following values:

- 0** – No translation is performed.
- 1** - Regular expression & grouping are performed.
- 2 and higher** - Customer specific translations are performed.

---

## The *[DISPATCH]* section

---

The options in this section control the operation of the Dispatch module, and are listed under the `[DISPATCH]` section of the configuration file.

The settings shown in blue below are the default settings, as described in the scanner program section of this manual.

If you make changes to these settings, the operation of the scanner program will change in the manner described below, which will result in differences from the operation described in this manual.

### `Dispatch_Location=`

If this option is left blank, the user needs to enter a warehouse location for each item scanned.

If set to `<DEFAULT>`, the default warehouse location will be used as set in item master.

If set to `<ORDER>`, the user will be prompted to enter the location where they are now, and subsequent items scanned will use that same location.

Otherwise, you can set this item to any specific warehouse location. This is useful if dispatching only from one location when using Consolidation. The value is set in the following format:

`Location Code or Warehouse Code:Location Code`

### `Dispatch_SortLines=`

This option sets how items are sorted on the Dispatch screen. This option can be set to the following values:

`ItemCode` - sort by item code (alphabetically).

`LocationSequence` - sort by next available pick location.

`LineNumber` - sort by order line number – that is, in the same way as they have been ordered in the delivery order.

If left blank, the items will be sorted by `LocationSequence`.

### **Dispatch\_DefaultQty=1**

When item is selected or scanned, this option sets the quantity to assign in the Quantity field (only for non-serialised items).

This option can be set to the following values:

`blank or 0` - the quantity must be manually entered.

`1 or any number` – the specified quantity is automatically entered.

`<ALL>` - When a user scans an item, the entire quantity for the item will be taken.

### **Dispatch\_ShowNotes=True**

If this option is set to `True`, and in the Ostendo delivery order, a note has been set, the note will be displayed on the scanner when the order is selected.

If this option is set to `False`, the message will not be displayed.

### **Dispatch\_UpdateInventory=True**

If this option is set to `True`, and a user enters or scans more of an item than is shown as available in the inventory, the scanner will prompt the user to adjust the inventory.

If this option is set to `False`, the user will not be allowed to scan or enter more of an item than is shown as available.

### **Dispatch\_UseAutoPickForNonserialisedItems=True**

If this option is set to `True`, it allows the user to scan item and automatically pick a quantity of 1, if the following conditions are met:

- The item is a non-serialised item.
- The default quantity is set to 1 or more.
- The item does not need any extra attributes to be entered (for example: expiry date, batch, colour, revision, size, grade, etc.)

### **Dispatch\_RestrictPickingFromWarehouses=**

If one or more warehouses are listed here, items can only be picked from the specified warehouses.

**Dispatch\_GroupPickedLines=True**

This setting is not documented in this release.

**Dispatch\_SplitPickingByCategory=False**

This setting is not documented in this release.

**Dispatch\_SplitPickingCategories=**

This setting is not documented in this release.

**Dispatch\_DefaultCategory=**

This setting is not documented in this release.

**Dispatch\_LockOrders=True**

If this option is set to **True**, the scanner will lock the order or category for picking so if someone else tries to pick it, they will get a warning message.

**Dispatch\_MarkOrderAsShipped=False**

If this option is set to **True**, orders will be marked as shipped in Ostendo after completing the picking in the scanner program.

**Dispatch\_PromptForVolumetricInfo=True**

If this option is set to **True**, after completing an order on the scanner, a screen will pop up asking for volumetric information (width, height and depth) of the package. This information, together with the weight, is then stored in Ostendo against delivery order.

**Dispatch\_AutoPickDescriptorLines=True**

This setting is not documented in this release.

**Dispatch\_PrintCartonLabels=False**

If this option is set to **True**, the user is prompted to print carton labels before starting Dispatch.

**Dispatch\_UseCartonLabels=False**

If this option is set to **True**, the user is prompted to scan carton labels during dispatch so that there is a list of what each carton contains.

**Dispatch\_ValidatePicksAgainstInventory=False**

If this option is set to **True**, the scanner program validate that each item is in inventory and prevents the user from picking the item if it isn't there.

`Dispatch_AdjustDeliveryLinesTable=False`

This setting is not documented in this release.

`Dispatch_AutoPickExpiryDate=False`

This setting is not documented in this release.

`Dispatch_AutoPickBatch=False`

This setting is not documented in this release.

`Dispatch_UseSmallestUoM=False`

This setting is not documented in this release.

`Dispatch_ListDisplayMode=0`

This setting is not documented in this release.

`Dispatch_ValidateCartons=False`

This setting is not documented in this release.

`StockAdjust_UseLastKnownExpiryDate=True`

Set this option to `True` to always use the earliest expiry date (last purchased expiry date from the item's purchase history) when picking items.

If this date is not known for the item, the user will be prompted to enter it.

`StockAdjust_UseLastKnownBatchValue=False`

Set this option to `True` to always use the earliest batch number (last batch number from the item's purchase history) when picking items.

If the batch number is not known for the item, the user will be prompted to enter it.

## The [SCANPACK] section

---

The options in this section control the operation of the Scan Pack module, and are listed under the [SCANPACK] section of the configuration file.

The settings shown in blue below are the default settings, as described in the scanner program section of this manual.

If you make changes to these settings, the operation of the scanner program will change in the manner described below, which will result in differences from the operation described in this manual.

### ScanPack\_Location=

If this option is left blank, the user needs to enter a warehouse location for each item scanned.

Otherwise, you can set this item to any specific warehouse location where orders will be Scan Packed from. The value is set in the following format: `Location Code` or `Warehouse Code:Location Code`

### ScanPack\_SortLines=

This option sets how items are sorted on the Scan Pack screen. This option can be set to the following values:

`ItemCode` - sort by item code (alphabetically).

`LocationSequence` - sort by next available pick location.

`LineNumber` - sort by order line number – that is, in the same way as they have been ordered in the delivery order.

If left blank, the items will be sorted by `LocationSequence`.

### ScanPack\_DefaultQty=

This option can be set to the following values:

`blank or 0` - the quantity must be manually entered.

`1 or any number` – the specified quantity is automatically entered.

`<ALL>` - When a user scans an item, the entire quantity for the item will be taken.

### ScanPack\_ShowNotes=True

This setting is not documented in this release.

`ScanPack_UseAutoPickForNonserialisedItems=True`

This setting is not documented in this release.

`ScanPack_MarkOrderAsShipped=False`

This setting is not documented in this release.

`ScanPack_PromptForVolumetricInfo=False`

This setting is not documented in this release.

`ScanPack_PrintCartonLabels=False`

This setting is not documented in this release.

`ScanPack_UseCartonLabels=False`

This setting is not documented in this release.

`ScanPack_ValidateCartons=False`

This setting is not documented in this release.

---

## The [CONSOLIDATION] section

---

The options in this section control the operation of the Consolidation module, and are listed under the [CONSOLIDATION] section of the configuration file.

The settings shown in blue below are the default settings, as described in the scanner program section of this manual.

If you make changes to these settings, the operation of the scanner program will change in the manner described below, which will result in differences from the operation described in this manual.

`Consolidation_Dst_Location=Main:Primary`

If this option is left blank, the user will need to enter the warehouse location where Consolidation will occur.

Otherwise, you can set this item to any specific warehouse location where Consolidation will occur. The value is set in the following format: `Location Code` or `Warehouse Code:Location Code`

`Consolidation_Src_Location=`

If this option is left blank, the user will need to enter the warehouse location where the item is picked from.

If this option is set to `<DEFAULT>`, the default location for the item scanned will be used.

`Consolidation_ValidatePicksAgainstInventory=True`

This setting is not documented in this release.

`Consolidation_DefaultQty=`

This option can be set to the following values:

`blank` or `0` - the quantity must be manually entered.

`1` or `any number` – the specified quantity is automatically entered.

`<ALL>` - When a user scans an item, the entire quantity for the item will be taken.

---

## The [RECEIVING] section

---

The options in this section control the operation of the Receiving module, and are listed under the [RECEIVING] section of the configuration file.

The settings shown in blue below are the default settings, as described in the scanner program section of this manual.

If you make changes to these settings, the operation of the scanner program will change in the manner described below, which will result in differences from the operation described in this manual.

`Receiving_Location=Main:Primary`

If this option is left blank, the user will need to enter the warehouse location where Received stock is stored.

Otherwise, you can set this item to any specific warehouse location where Received stock will be stored. The value is set in the following format: `Location Code` or `Warehouse Code:Location Code`

`Receiving_IntoPallets=False`

This setting is not documented in this release.

`Receive_SortLines=`

This option sets how items are sorted on the Receive screen. This option can be set to the following values:

`ItemCode` - sort by item code (alphabetically)

`LocationSequence` - sort by next available pick location

`LineNumber` - sort by order line number – that is, in the same way as they have been ordered in the delivery order.

If left blank, the items will be sorted by `LocationSequence`.

`Receive_DefaultQty=`

This option can be set to the following values:

`blank or 0` - the quantity must be manually entered.

`1 or any number` – the specified quantity is automatically entered.

`<ALL>` - When a user scans an item, the entire quantity for the item will be taken.

---

## The [PUTAWAY] section

---

The options in this section control the operation of the Put Away module, and are listed under the [PUTAWAY] section of the configuration file.

The settings shown in blue below are the default settings, as described in the scanner program section of this manual.

If you make changes to these settings, the operation of the scanner program will change in the manner described below, which will result in differences from the operation described in this manual.

**Putaway\_Src\_Location=Main:Primary**

If this option is left blank, the user will need to enter the warehouse location where stock to put away is to be stored.

Otherwise, you can set this item to any specific warehouse location where stock to put away is to be stored. The value is set in the following format: **Location Code** or **Warehouse Code:Location Code**

**Putaway\_Dst\_Location=**

If this option is left blank, the user will need to enter the warehouse location where stock is put away to.

Otherwise, you can set this item to any specific warehouse location where stock is put away to. The value is set in the following format: **Location Code** or **Warehouse Code:Location Code**

**PutAway\_SortLines=**

This option sets how items are sorted on the Put Away screen. This option can be set to the following values:

**ItemCode** - sort by item code (alphabetically)

**LocationSequence** - sort by next available pick location

**LineNumber** - sort by order line number – that is, in the same way as they have been ordered in the delivery order.

If left blank, the items will be sorted by **LocationSequence**.

**PutAway\_DefaultQty=**

This option can be set to the following values:

`blank or 0` - the quantity must be manually entered.

`1 or any number` – the specified quantity is automatically entered.

`<ALL>` - When a user scans an item, the entire quantity for the item will be taken.

---

## The [TRANSFER] section

---

The options in this section control the operation of the Transfer module, and are listed under the [TRANSFER] section of the configuration file.

The settings shown in blue below are the default settings, as described in the scanner program section of this manual.

If you make changes to these settings, the operation of the scanner program will change in the manner described below, which will result in differences from the operation described in this manual.

### Transfer\_Src\_Location=

If this option is left blank, the user will need to enter the warehouse location where stock is transferred from.

Otherwise, you can set this item to any specific warehouse location where stock is transferred from. The value is set in the following format: `Location Code` or `Warehouse Code:Location Code`

### Transfer\_Dst\_Location=

If this option is left blank, the user will need to enter the warehouse location where stock is transferred to.

Otherwise, you can set this item to any specific warehouse location where stock is transferred to. The value is set in the following format: `Location Code` or `Warehouse Code:Location Code`

### Transfer\_SortLines=

This option sets how items are sorted on the Transfer screen. This option can be set to the following values:

`ItemCode` - sort by item code (alphabetically)

`LocationSequence` - sort by next available pick location

`LineNumber` - sort by order line number – that is, in the same way as they have been ordered in the delivery order.

If left blank, the items will be sorted by `LocationSequence`.

**Transfer\_Src\_DefaultQty=**

This option can be set to the following values:

`blank or 0` - the quantity must be manually entered.

`1 or any number` – the specified quantity is automatically entered.

`<ALL>` - When a user scans an item, the entire quantity for the item will be taken.

**Transfer\_Dst\_DefaultQty=**

This option can be set to the following values:

`blank or 0` - the quantity must be manually entered.

`1 or any number` – the specified quantity is automatically entered.

`<ALL>` - When a user scans an item, the entire quantity for the item will be taken.

**Transfer\_PickMode=0**

This setting is not documented in this release.

**Transfer\_PutMode=0**

This setting is not documented in this release.

---

## *The [STOCKADJUST] section*

---

The options in this section control the operation of the Stock Adjust module, and are listed under the [ STOCKADJUST ] section of the configuration file.

The settings shown in blue below are the default settings, as described in the scanner program section of this manual.

If you make changes to these settings, the operation of the scanner program will change in the manner described below, which will result in differences from the operation described in this manual.

### `StockAdjust_Location=`

If this option is left blank, the user will need to enter the warehouse location where stock is adjusted.

Otherwise, you can set this item to any specific warehouse location where stock is adjusted. The value is set in the following format:

`Location Code or Warehouse Code:Location Code`

### `StockAdjust_DefaultQty=`

This option can be set to the following values:

`blank or 0` - the quantity must be manually entered.

`1 or any number` – the specified quantity is automatically entered.

`<ALL>` - When a user scans an item, the entire quantity for the item will be taken.

---

## The [BARCODERULES] section

---

The options in this section control the translation of barcodes, and are listed under the [BARCODERULES] section of the configuration file.

**Count=0**

This setting indicates how many barcode translation rules are in this section of the configuration file. The default setting of zero means there are no rules.

Each barcode rule contains three parts – the **Symbology**, the **Match** specification, and the **Replace** specification. Rules are specified as follows:

```
[BarcodeRule_0]
Symbology=
Match=
Replace=
```

Rules are numbered starting at zero, and are run in numeric order. When a rule matches, no further translation occurs.

The **Symbology** must be one of the following values:

```
Code 39
Codabar
EAN Addon
EAN
UPC Addon
UPC
Industrial 2 of 5
Interleaved 2 of 5
Code 93
Code 128
MSI
IATA
RSS-14
RSS Limited
RSS Expanded
RSS-14 Stacked
RSS Expanded Stacked
```

Note that it is not possible for a single rule to match more than one symbology – if you need to match more than one symbology, you will need to have a separate rule for each symbology.

The **Match** specification is a regular expressions (regex). ASPluris uses the Microsoft .Net definition of regular expressions, which is documented at the following URL:

<http://msdn.microsoft.com/en-us/library/hs600312.aspx>

The **Replace** specification uses Regex Grouping. Sections of the **Match** rule are placed in parentheses (round brackets), and these groups are specified in the Replace pattern, along with other characters as required.

### *Examples*

```
[BarcodeRule_0]
Symbology=Code 128
Match=^(00123456789)A$
Replace=$1
```

The above rule matches the Code 128 barcode **00123456789A** and removes the **A** at the end, translating the barcode to **00123456789**

```
[BarcodeRule_1]
Symbology=Code 128
Match=^(00123456789)(A)$
Replace=$2$1
```

This rule matches the same Code 128 barcode, but moves the **A** at the end to the front, translating the barcode to **A00123456789**

```
[BarcodeRule_2]
Symbology=Code 39
Match=^(.)(.)*(.)$
Replace=$2
```

The above rule removes the first and last characters of any Code 39 barcode.

```
[BarcodeRule_3]
Symbology=Interleaved 2 of 5
Match=^(.{2})(.)(.*)$
Replace=$1-$3
```

The above rule removes the third character of any Interleaved 2 of 5 code and replaces it with a dash.

Note that every match rule above uses a **^** character at the start and a **\$** character at the end of the Regex – this ensures that the match occurs over the whole barcode, and not just part of a longer code. We strongly recommend that you use this convention.

Remember that barcode rules apply only to *scanned* barcodes (and not to barcode numbers typed into the scanner using the keypad), and that they apply to all barcodes everywhere in the scanner program, including the scanner's **Barcode Test** function (see the **ASPluris User Guide**). This means that when you add a barcode rule, you can test that it works as expected using the Barcode Test function from the Main Menu.

---

## The [DATABASE\_INFO] section

---

The items in this section control the basic operation of the scanner program, and are listed under the [DATABASE\_INFO] section of the configuration file.

Do not manually change any settings shown here in **red** – they are set by the ASPluris service, and indicate and identify the application settings. They are listed here only for completeness.

**DB\_DATASOURCE=127.0.0.1**

**DB\_SERVERVERSION=WI-V2.5.1.26351 Firebird 2.5**

**DB\_SERVERVERSIONNO=2.5.1.26351**

**DB\_DATABASE=C:\Ostendo\TRAINING\Demo\Ostendo.fdb**

## *The ASPluris Label Printer program*

The **ASPluris Label Printer** is an optional add-on that runs on a PC on the same network as the ASPluris Service. This program creates and prints labels defined by templates.

This add-on is not documented in this release.

## Using the Barcode Terminal

The initial release of ASPluris uses the **Casio DT-X8** barcode terminal. Other terminals will be available in the future.

### Casio DT-X8 series

The Casio DT-X8 series terminals provide all the durability and performance features required for extremely demanding and tough work environments. The DT-X8 series has been designed to meet a drop resistance of three metres to concrete, ensuring that it can survive impacts from the kind of heights likely to be encountered in typical work environments such as warehouses.

The Casio DT-X8 series is dust/splash-proof to IP67, has a 2.7 inch touch-screen LCD that is highly visible even in daylight, and a vibrator alert. A high performance laser scanner is standard, with 2D and long range imager models available. This manual refers to the standard laser scanner.



To turn the terminal on, press and hold down the power button (just above the R key below the display) until the screen displays “Power On”. To turn the terminal off, press and hold down the power button until the screen goes black.

### Reading Barcodes

Ensure that the terminal is turned on, and at a place in the program where barcodes can be scanned, then press one of the orange edged trigger buttons on the sides of the terminal, or the round button inside the orange circle below the display screen.

Hold the terminal about 3 to 30cm back from the barcode, and direct the scanning beam onto the barcode. When the barcode has been read successfully, the terminal will beep and the indicator LED will flash briefly.

If the terminal fails to read the barcode, change the scanning angle or the distance from the barcode, and try again.

## The Barcode Terminal keypad

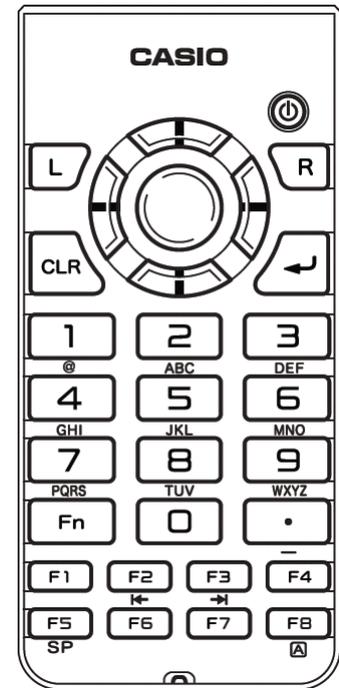
The keyboard layout of the Casio DT-X8 terminal is shown on the right.

The **Power button** is just above the R button near the top right.

The **Enter key** is at the bottom right of the circular array of keys.

The **CLR key**, which is used most often as a **backspace key**, is at the bottom left of the circular array of keys.

To type a **space** character, press the **F5/SP key** at the bottom left of the keypad. To type a **dash** (or negative sign) character, press the **F4/- key** near the bottom right.



In most applications, the only time you'll need to use the keypad is to enter data such as quantities, and these are usually numeric only. The barcode terminal was designed to make this kind of data entry fast and simple. **Numeric input** is the default mode, and this is indicated by a small **1** icon near the top right of the display, below the battery status icon.

In this mode, you can enter numbers just by pressing the numeric keys.

If you need to enter letters or other characters, the barcode terminal has an upper case and a lower case **Alphanumeric Input** mode, indicated by a small **A** or **a** icon near the top right of the display.

To change modes, you must be at a prompt that allows keyboard input. Then, press and release the **F8/A** key at the bottom right of the keypad to change between **numbers 1**, **upper case letters A**, and **lower case letters a**. Each press of the **F8/A** key cycles through the available modes, with the current mode indicated by the icon near the top right of the display.

In **numeric 1** mode, the keypad enters the numbers shown on the key. In **upper case A** or **lower case a** mode, the letters shown in white on each numeric key can be entered. Pressing a key once enters the first letter on the key, pressing a key twice quickly enters the second letter, and so on, similar to an old-style mobile phone keypad.

To enter a dash, press the **F4/-** key. To enter a space, press the **F5/SP** key. Various punctuation marks can also be entered using the **1/@** key in upper or lower case mode.

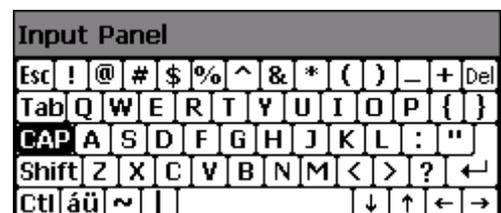
## *The On Screen Keyboard (OSK)*

Because the ASPluris application runs in full screen mode, the Windows On Screen Keyboard (OSK) is normally hidden. However, when you need to make configuration changes to Windows (such as Wi-Fi settings), the OSK can be very helpful.

When the terminal is displaying the Windows Desktop, the task bar is displayed at the bottom of the screen. The On Screen Keyboard can be displayed by tapping on the keyboard icon second from the right, and tapping on Keyboard entry on the menu that pops up, as shown on the right.



This will open the OSK, which is shown on the right. You can move the OSK around on the screen by tap-and-drag on the dark grey section at the top.



To close the OSK, just tap on the task bar keyboard icon again, then tap on the Hide Input Panel entry on the menu that pops up

## *Battery Status Icon*

The battery icon at the top right of the screen can show five states.



This icon means that the terminal is in its cradle, and the cradle is connected to its power supply.



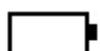
This icon shows that the battery is between approximately 75% and 100% charged.



The battery is between approx. 50% and 75% charged.



The battery is between approx. 25% and 50% charged.



The battery is between approx. 0% and 25% charged. You should stop using the terminal and charge the battery immediately.

Please note that the battery status icon is indicative only.

## *Battery Charging*

---

When the terminal is put into its cradle, and the cradle is connected to a power supply, the terminal's battery will be charged. An indicator above the display shows charging status.

**Orange**            The battery is being charged.

**Red Flashing**    Charging is halted due to a battery pack error, or the surrounding temperature is out of the charging temperature range. Charging will begin again when the temperature returns to within the charging temperature range of approx 0°C to 40°C.

**Green**             Battery charging is complete.

## *Power Saving and Auto Off*

---

To conserve battery power when the terminal is not in active use, the Windows CE Operating System lowers the display brightness a preset amount of time, and then turns off after a further preset time. To restore the terminal to its prior state, just press the Power button briefly.

These battery saving functions are controlled by the Windows CE Power settings. We advise against changing any Windows CE settings.

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