FUJIFILM order-it portable

Order Validation System (OVS)

Version 8.7.4 or later
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1. Introduction

The Order Validation System (OVS) permits to release orders which have been placed with an order-it kiosk not until they are authorized. The authorization is usually made at the cash desk by reading with a barcode scanner a validation code which is printed on the receipt. Additionally there is an option that the authorization must be confirmed by the customer by manually entering a validation code at the kiosk.

The Order Validation System is part of every order-it release. That means that no additional software packages are necessary for its activation. But it requires at least one barcode reader – other additional hardware is optional.

This manual intends to provide an overview of the Order Validation System. Its target reader is a technician who has to maintain and install order-it kiosks. You will see that the installation is quite easy and is made in a couple of minutes.
2. Workflow

There are two different ways to use the ‘Order Validation System’: with and without the input of a validation code by the customer.

2.1. Orders with validation

Step 1:

As usual, the Customer places an order with an order-it kiosk and receives an order receipt. In the receipt screen he is asked to take care of the receipt, to pay the order at the cash desk and to validate the order afterwards at the kiosk (see screenshot).
Workflow

Step 2:

Afterwards, the customer pays the sum which is shown on the receipt at the cash desk.

If the customer loses his receipt it can be printed once again by the kiosk administrator.

Step 3:

The personal at the cash desk authorizes the order by reading the barcode which is imprinted on the receipt with a barcode scanner.

Should the order not been authorized it will be automatically deleted after a certain retention time (see chapter 3.7.4.4).

Step 4:

The customer goes back to the order-it kiosk. Within the start screen a [Print prepaid order] button is displayed which leads to a particular screen for the manual input of a validation code (see the following screenshots).

Please note that the complete [Print prepaid order] section is only displayed when there are actually orders waiting for being confirmed by the input of a validation code.
If the customer does not come back to the kiosk in order to validate the order this one will be automatically be deleted after a certain time (see chapter 3.7.4.4). Within the storage period the order can also be produced by the kiosk administrator.

Step 5:

As soon as the correct validation code has been inserted the production of the order is invoked. That means that the order data are immediately sent to the printer.

### 2.2. Orders without validation

**Step 1:**

As usual, the Customer places an order with an order-it kiosk and receives an order receipt. In the receipt screen he is asked to take care of the receipt and to pay the order at the cash desk (see screenshot)
Step 2:

Afterwards, the customer pays the sum which is shown on the receipt at the cash desk.

Should the customer lose his receipt it can be printed once again by the kiosk administrator.

Step 3:

The personal at the cash desk authorizes the order by reading the barcode which is imprinted on the receipt with a barcode scanner.

Should the order not been authorized it will be automatically deleted after a certain retention time (see chapter 3.7.4.4). Within the storage period the order can also be produced by the kiosk administrator.
Step 4:

As soon as the order has been authorized its production is invoked. That means that either the order data are sent to the printer.
Installation and Configuration

3. Possible Solutions and Topologies

Depending on the number of used order-it kiosks the Order Validation System can be set up in various ways. However, the minimum requirements are one Barcode reader and the installation of the software “authorize-it” on only one of the used kiosks. The cash register in the following schemes is only for a better imagination – usually the barcode reader is located next to the cash register. Of course it could be also placed for example at an information counter.

3.1. Solution A: A Single Kiosk which is directly attached to a Barcode Scanner

The simplest solution for a basic OVS system is to attach a USB barcode scanner directly to an order-it kiosk (see Figure 1). Since the maximum length of a standard USB cable is 5 meters the possibilities of this solution are limited. Of course, it would be possible to use hubs or active extension cables for greater lengths.

3.1.2. Solution B: A Single Kiosk which is attached to a Barcode Scanner via LAN/WAN

The common way to extend USB connections is over a network. For this reason an obvious enhancement of the previously described solution is to attach a USB barcode scanner via a LAN/WAN to a single order-it kiosk. (see Figure 2). By this measure, the distance between the kiosk and the barcode scanner can be as long as the LAN/WAN permits. For the development and test of the OVS we have used a particular hardware solution for the connection of USB devices via a LAN/WAN (see section 3.2).
3.1.3. **Solution C: Multiple Kiosks which are attached to one or multiple barcode scanners via a LAN/WAN**

Since multiple order-it kiosks are generally connected via a LAN/WAN this network can also be used to make shareable one or more USB devices like barcode scanners. The following diagram shows the OVS configuration of a shop which is equipped with multiple order-it kiosks and multiple barcode scanners which are shared via the LAN/WAN (see Figure 3).

![Diagram showing OVS configuration of a shop with multiple kiosks and barcode scanners](image)

**Figure 3: Multiple kiosks which are attached to multiple barcode scanners via a LAN/WAN**
3.1.4. Solution D: Multiple Kiosks, Barcode Scanners and a Dedicated Host also used as OVS Server, connected via a LAN/WAN

If one kiosk is used as dedicated production host it can be also used to run authorize-it. This can be seen in the following diagram which is very similar to the previous one:

![Diagram showing multiple kiosks, barcode scanners, and a dedicated OVS server connected via a LAN/WAN](image)

**Figure 4:** Multiple kiosks, multiple barcode scanners and a dedicated OVS server connected via a LAN
3.2. **Hardware Requirements**

The following hardware items are required:

- At least one **order-it kiosk** which is connected to a barcode scanner either directly or via a USB device server.

- A receipt printer which is attached to this kiosk or built into it.

- At least one barcode scanner with USB interface
  
  The recommended barcode scanners are the Voyager 9520/40 hand-held, single laser scanners by Honeywell and Metrologic.

  Generally the used barcode scanner should be able to transmit at least one prefix and one suffix character. Ideally it should be possible to set the ‘Start of Text’ control character (ASCII 02H) as prefix character.

In addition it is required to have the following items if multiple kiosks and/or multiple barcode scanners should be used:

- A LAN/WAN which connects both the **order-it** kiosks and the barcode scanners.

- A USB device server which is connected with the barcode scanner(s).
  
  The recommended model are the following ones

  - A Silex Hi-Speed USB Device Server (SX-2000U2 or SX-2000WG).
  
  - A Silex Hi-Performance USB Device Server (SX-DS-4000U2).

  It can be expected that the OVS is also functional with other USB device servers. Since the solution has been developed and tested with the indicated two Silex models full support for solutions with other models cannot be provided.

3.3. **Software Requirements**

On the processing kiosk:

- **order-it portable** 8.6.5 or higher

- **authorize-it**

- Silex SX Virtual Link Software

On all other kiosks:

- **order-it** 8.6.5 or higher
3.4. **How to Setup the Four Sample topologies**

To setup the topologies explained in Chapter 3.1 (see page 10) several steps are required which are explained in the following subchapters. For the general setup of order-it portable kiosks please refer to order-it portable manual.

The following overview should help with a short guideline what has to be done for setup the OVS:

**A Single Kiosk which is directly attached to a Barcode Scanner (see page 10)**

For this system the following steps are required:

- The setup of a single kiosk (see page 17).
- The setup of the processing kiosk (see page 18)
- The preparation of the barcode scanner (see page 34)

**A Single Kiosk which is attached to a Barcode Scanner via LAN/WAN (see page 10)**

This topology requires the following steps:

- The setup of a single kiosk (see page 17).
- The setup of the processing kiosk (see page 18)
- The preparation of the barcode scanner (see page 34)
- The setup of USB device server software (explained for example on page 44)
The Installation of the SX Virtual Link Program to connect barcode reader via LAN/WAN

**Multiple Kiosks which are attached to one or multiple barcode scanners via a LAN/WAN (see page 11)**

This topology requires the following steps:

- The setup of a single kiosk (see page 17).
- The setup of additional kiosks (see page 18).
- Setup of *only one* kiosk as processing kiosk (see page 18) including setup of USB device server software for connecting barcode reader via LAN/WAN
- The preparation of the barcode scanner (see page 34)
- The setup of USB device server software (explained for example on page 44)
Installation and Configuration

The Installation of the SX Virtual Link Program\(^\text{1}\) to connect barcode reader via LAN/WAN

**Multiple Kiosks, Barcode Scanners and a Dedicated Host also used as OVS Server, connected via a LAN/WAN (see page 12)**

This topology requires the following steps:

- The Setup of a single kiosk (see page 17).
- The Setup of additional kiosks (see page 18).
- The Setup of a *dedicated host* as processing kiosk (see page 18)
- The preparation of the barcode scanner (see page 34)
- The setup of USB device server software (explained for example on page 44 \(^\text{1}\)
3.5. The Setup of a Single Kiosk

A single order-it kiosk which is directly attached to a Barcode Scanner (see chapter 3.1.1) is configured as follows:

3.5.1. Activation of the OVS within assist-it

The OVS can generally be used with all available output devices. It must be activated within assist-it. This is done by simply ticking one of the corresponding checkboxes for order validation (see Figure 5).

![Figure 5: assist-it – Order Settings](image)

If you prefer that the customer does not validate the orders at the kiosk as described in chapter 2.2 please check the checkbox ‘Print orders only after the receipt has been validated by a barcode reader. The production starts automatically after validation (OVS)’.

If the customer should come back to the kiosk to start his print job by entering a validation code please check ‘Print orders only after the receipt has been validated by a barcode reader. Additionally, the customer must insert a code at the kiosk in order to start the production (OVS)’.

3.5.2. Activation of Receipt Printing

Since the activation key for a particular order (validation ID) is printed on the receipt it is mandatory to enable receipt printing within assist-it. Please refer to the chapter “Configure receipt-printing” in the order-it portable manual.

As soon as the ‘OVS’ option has been enabled all standard receipts will come with a validation ID.

3.5.3. Configuration of authorize-it
Since a single kiosk acts as processing kiosk it is necessary to also configure it for the validation of orders. This is described in detail in subchapter 3.7.

### 3.6. The Setup of Additional Kiosks

Generally, the procedure is the same as explained for a ‘single kiosk’ in the subchapters 3.5.1 and 3.5.2 above.

In a multiple-kiosk environment it is essential that the kiosks have different computer names. Otherwise they cannot be discerned within the network. The use of different computer names for the different kiosks within the network can be best ensured by using the ‘Set Terminal ID as computer name’ function. Please refer to the chapter "Configuration – Edit the kiosk identification data" in order-it portable manual.

### 3.7. The Setup of the Processing Kiosk or Processing System (authorize-it)

The OVS is implemented as a co-operation of two components: order-it 8.6.8 (or higher) on all connected kiosks and ‘authorize-it’ on one single ‘processing’ kiosk or system.

It is very important to observe that ‘authorize-it’ should be installed on one and only one processing system. This system can be either an order-it kiosk, which is called ‘processing kiosk’, or a dedicated host.

authorize-it can be found in the ‘C:\Program Files\software.house\DI\kiosk’ directory. Therefore no particular installation is needed if authorize-it will be used on an order-it portable kiosk.

**Important note:** authorize-it must be always running at the kiosk or dedicated host which is connected to the barcode reader(s). If authorize-it does not run, the OVS cannot validate orders!
3.7.1. Automatic Start of authorize-it

In order to ensure the proper operation of the Order Validation System it is strongly recommended to include authorize-it into the start menu of the system which is used to run authorize-it.
3.7.2. Basic Configuration

By clicking the [Basic Configuration] button within the main screen (see Figure 6) the ‘Basic Configuration’ dialogue is invoked (see Figure 7).

![Figure 6: Main Screen in Automatic Mode](image)

The default value for operation mode of authorize-it is ‘Automatic mode’. This operation mode is sufficient for a single kiosk where orders are validated by the customer. If orders should not be validated by the customer and in a configuration with multiple kiosks it is required to switch mode to ‘Manual configuration mode’.

![Figure 7: authorize-it - Basic configuration](image)
The target configuration depends upon two factors, first, the place where the orders are released and, second, whether orders should be validated by the input of a validation code or not.

3.7.3. Target Configuration for Solutions A and B (Single Kiosk) with and without Validation Code Input

With a single kiosk there is only the local order target directory which must be configured.

After having enabled the manual configuration mode an additional button with the label [Target Configuration] appears in the main screen (see Figure 8).

![Figure 8: Main Screen in Manual Mode](image)

After pressing the [Target configuration] button a dialog screen appears which permits to set and modify the processing of the orders in the order target directory (see Figure 9). Press the [Edit selected target] button.
Two settings are important for the use with a single kiosk: the order processing mode and the storage time for unapproved orders must be set and, finally, the target directory itself must be selected.

### 3.7.3.1. Select the Order Processing Mode

As described in chapter 2 there are two possibilities to invoke the printing of orders:

- When the validation code which is printed on the receipt is entered with a barcode scanner the printing is automatically started.
- After the authorization with the validation code it is additionally required that the customer manually enters a validation code at the kiosk which stores the order.

These two possibilities can be chosen by selecting one of the radio buttons (see Figure 10).
Please select the possibilities according to the settings in assist-it (see above in subchapter 3.5.1 on page 17).

3.7.3.2. Set the Storage Time for Unapproved Orders

The existence of a lot of orders which have been placed but have not been paid and hence not been produced can have the effect that the free space on drive D: is insufficient and that as a result an order-it kiosk cannot work anymore. To minimize this risk authorize-it must regularly ‘cleanup’ unapproved orders.

The storage time can be inserted in the ‘days’ and ‘hours’ fields. Note that these values are added up. To give an example: if you wish to define a storage time of 36 hours the ‘days’ value must be ‘1’ and the ‘hours’ value ‘12’. The default value is ‘1’ day and ‘0’ hours (see Figure 11).

Click [Accept] in order to save the configuration and to insert the target directory into the target list.

![Figure 11: authorize-it - input of the storage time for unapproved orders](image-url)
Installation and Configuration

3.7.4. Target Configuration for Solution C (Multiple Kiosks with a printer attached to each kiosk) with and without Validation Code Input

After having enabled the manual configuration mode an additional button with the label [Target Configuration] appears in the main screen (see Figure 12).

![Figure 12: Main Screen in Manual Mode](image)

After pressing the [Target configuration] button a dialog screen appears which permits to set and modify the processing of the orders in the order target directory (see Figure 9). First, press the [Edit selected target] button and make the configuration for the local target directory for the first connected kiosk.

The target configuration dialog permits to add or remove target directories which are scanned for new orders. Additionally the features of already existing target directories can be modified (see Figure 13).
Figure 13: authorize-it - target configuration dialogue

For every kiosk for which orders should be validated an order target directory must be available at this place. Proceed by pressing the [Add new target] button.

Four settings must be made for every order target directory that is for every connected kiosk: the order processing mode must be determined, the related kiosk ID must be selected, the storage time for unapproved orders must be set and, finally, the target directory itself must be selected.

3.7.4.1. Assign the Kiosk ID

By using the 'Kiosk id' combobox the kiosk number of the kiosk must be selected (see Figure 14 and Figure 15).
3.7.4.2. Select the Order Processing Mode

As described in chapter 2 there are two possibilities to invoke the printing of orders:

- When the validation code which is printed on the receipt is entered with a barcode scanner the printing is automatically started.

- After the authorization with the validation code it is additionally required that the customer manually enters a validation code at the kiosk which stores the order.

These two possibilities can be chosen by selecting one of the radio buttons (see Figure 16).

3.7.4.3. Select a Target Directory

By clicking the button with a folder symbol (see Figure 17) a directory browser is invoked which permits to select the desired target directory (see Figure 18)
3.7.4.4. Set the Storage Time for Unapproved Orders

The existence of a lot of orders which have been placed but have not been paid and hence not been produced can have the effect that the free space on drive D:\ is insufficient and that as a result an order-it kiosk cannot work anymore. To minimize this risk authorize-it must regularly ‘cleanup’ unapproved orders.

The storage time can be inserted in the ‘days’ and ‘hours’ fields. Note that these values are added up. To give an example: if you wish to define a storage time of 36 hours the ‘days’ value must be ‘1’ and the ‘hours’ value ‘12’. The default value is ‘1’ day and ‘0’ hours (see Figure 19).
3.7.5. **Target Configuration for Solution D (Printer Host) without Validation Code Input at the Kiosks**

After having enabled the manual configuration mode an additional button with the label [Target Configuration] appears in the main screen (see Figure 20).

After pressing the [Target configuration] button a dialog screen appears which permits to set and modify the processing of the orders in the order target directory (see Figure 21). Press the [Edit selected target] button in order to edit the order target configuration of the first connected kiosk. Press the [Add new target] button in order to add a new order target for all further kiosks.
Four settings must be made for every order target that is for every connected kiosk: the order processing mode must be determined, the related kiosk ID must be selected, the storage time for unapproved orders must be set and, finally, the target directory itself must be selected.

3.7.5.1. Assign the Kiosk ID

By using the ‘Kiosk id’ combobox the kiosk number of the kiosk must be selected (see Figure 22 and Figure 23).
Installation and Configuration

3.7.5.2. Select the Order Processing Mode

As described in chapter 2 there are two possibilities to invoke the printing of orders:

- When the validation code which is printed on the receipt is entered with a barcode scanner the printing is automatically started.
- After the authorization with the validation code it is additionally required that the customer manually enters a validation code at the kiosk which stores the order.

These two possibilities can be chosen by selecting one of the radio buttons (see Figure 24).

![Figure 23: authorize-it - assign a kiosk id to a target directory](image)

![Figure 24: authorize-it - Selection the order processing conditions](image)

Please set the processing mode to “Start processing authorized orders immediately” since no input of a validation code by the customer should be made in this configuration.
3.7.5.3. **Select the Target Directory**

By clicking the button with a folder symbol (see Figure 25) a directory browser is invoked which permits to select the desired target directory (see Figure 26).

Since the orders are validated after having been transferred to the printer host the target directory is the ‘D:\it-Onsiteprint’ directory on the printer host for every connected kiosk.

After pressing the [OK] button the selected target directory is set.
3.7.5.4. The Workflow of Orders Coming from the Connected Kiosks

Note that orders coming from the other connected kiosks are validated at the printer host. Generally, they are validated by a barcode reader which is attached to the printer host. The workflow is as follows:

- When an order has been completed at a connected kiosk it is automatically transferred to the printer host.
- As soon as this order has been completely registered at the printer host it is displayed in the order list in repeat-it. Since it has not yet authorized it still has a 'Locked' status (see Figure 27).

Figure 27: repeat-it - An order is waiting to be validated

- After the shop clerk has read the barcode on the receipt with a barcode scanner the status changes to ‘Waiting’ and some seconds later the order is printed (see Figure 28).

Figure 28: repeat-it - The new order has been validated and is going to be printed
3.7.5.5. Set the Storage Time for Unapproved Orders

The existence of a lot of orders which have been placed but have not been paid and hence not been produced can have the effect that the free space on drive D:\ is insufficient and that as a result an order-it kiosk cannot work anymore. To minimize this risk authorize-it must regularly ‘cleanup’ unapproved orders.

The storage time can be inserted in the ‘days’ and ‘hours’ fields. Note that these values are added up. To give an example: if you wish to define a storage time of 36 hours the ‘days’ value must be ‘1’ and the ‘hours’ value ‘12’. The default value is ‘1’ day and ‘0’ hours (see Figure 29).

Click [Accept] in order to save the configuration.

![Edit order target directory](image)

**Figure 29:** authorize-it - input of the storage time for unapproved orders

3.7.5.6. List of Order Target Directories

When authorize-it has been completely configured order target directories for every connected kiosk must be defined like in Figure 30.

![Target configuration](image)

**Figure 30:** authorize-it - list of target directories for the connected kiosks
Accordingly, the main screen of authorize-it will look as follows (Figure 31).

![Figure 31: authorize-it - Main screen for Solution D without validation code input](image)

### 3.7.6. Target Configuration for Solution D (Printer Host) with Validation Code Input at the Kiosks

The configuration of solution D with validation code input at each kiosk is different since the orders are released at the kiosks before being sent to the printer host. For that reason a target must be defined for every connected kiosk.

After having enabled the manual configuration mode an additional button with the label [Target Configuration] appears in the main screen (see Figure 32).

---

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<thead>
<tr>
<th>Status</th>
<th>01</th>
<th>01:00h</th>
<th>D: Wk2Dir</th>
<th>OK</th>
</tr>
</thead>
<tbody>
<tr>
<td>OK</td>
<td>02</td>
<td>01:00h</td>
<td>D: Wk2Dir</td>
<td>OK</td>
</tr>
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<td>01:00h</td>
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</tr>
<tr>
<td>OK</td>
<td>05</td>
<td>01:00h</td>
<td>D: Wk2Dir</td>
<td>OK</td>
</tr>
</tbody>
</table>

Current operating mode: Manual settings (multiple kiosks)

Current operating mode: Manual settings (multiple kiosks)
Installation and Configuration

Figure 32: Main Screen in Manual Mode

After pressing the [Target configuration] button a dialog screen appears which permits to set and modify the processing of the orders in the order target directory (see Figure 33). Press the [Edit selected target] button and make the configuration for the first target.

The target configuration dialog permits to add or remove target directories which are scanned for new orders. Additionally the features of already existing target directories can be modified.

Figure 33: authorize-it - target configuration dialogue

For every connected kiosk for which orders should be validated an order target must be added at this place. Proceed by pressing the [Edit selected target] button.
Installation and Configuration

Four settings must be made for every order target that is for every connected kiosk: the order processing mode must be determined, the related kiosk ID must be selected, the storage time for unapproved orders must be set and, finally, the target directory itself must be selected.

Note that no target should be created for the printer host itself! Target directories should only be defined for kiosks where customers place orders.

3.7.6.1. Assign the Kiosk ID

By using the „Kiosk id“ combobox the kiosk number of the kiosk must be selected (see Figure 34 and Figure 35).

![Figure 34: authorize-it - Edit order target directory](image)

![Figure 35: authorize-it - assign a kiosk id to a target directory](image)

3.7.6.2. Select the Order Processing Mode

As described in chapter 2 there are two possibilities to invoke the printing of orders:
- When the validation code which is printed on the receipt is entered with a barcode scanner the printing is automatically started.

- After the authorization with the validation code it is additionally required that the customer manually enters a validation code at the kiosk which stores the order.

These two possibilities can be chosen by selecting one of the radio buttons (see Figure 36).

![Figure 36: authorize-it - Selection the order processing conditions](image)

Since the customer should input a validation code the second option must be selected.
3.7.6.3. Select a Target Directory

By clicking the button with a folder symbol (see Figure 37) a directory browser is invoked which permits to select the desired target directory (see Figure 38).

![Figure 37: authorize-it - Selection of a target directory](image)

After pressing the [OK] button the selected target directory is set.

3.7.6.4. The Workflow of Orders Coming from the Connected Kiosks

With this configuration all orders are validated at each kiosk by the input of a validation code by the customer. The workflow is as follows:

- When an order has been completed it is still held on the kiosk it where it has been placed.
Installation and Configuration

- After the shop clerk has read the barcode on the receipt with a barcode scanner the order is get ready to be released by the input of a validation code.

- As soon as the customer has made the input of the validation code at the kiosk the order is transferred to the printer host.

- When it has been completely transferred to the printer host the order is printed by the attached ASK printer(s).

3.7.6.5. Set the Storage Time for Unapproved Orders

The existence of a lot of orders which have been placed but have not been paid and hence not been produced can have the effect that the free space on drive D:\ is insufficient and that as a result an order-it kiosk cannot work anymore. To minimize this risk authorize-it must regularly ‘cleanup’ unapproved orders.

The storage time can be inserted in the ‘days’ and ‘hours’ fields. Note that these values are added up. To give an example: if you wish to define a storage time of 36 hours the ‘days’ value must be ‘1’ and the ‘hours’ value ‘12’. The default value is ‘1’ day and ‘0’ hours (see Figure 39).

![Figure 39: authorize-it - input of the storage time for unapproved orders](image)

Click [Accept] in order to save the configuration and to insert the target directory into the target list.

3.7.6.6. List of Order Target Directories

When authorize-it has been completely configured order target directories for every connected kiosk must be defined like in Figure 40.
Accordingly, the main screen of authorize-it will look as follows (Figure 41).

Figure 41: authorize-it - Main screen for Solution D with validation code input
3.8. The Preparation of the Barcode Scanner

Starting from the default settings of the barcode scanner it is necessary to set a prefix character and a suffix character. These characters will be transmitted before respectively after the barcode. By this the OVS can discern barcodes from keyboard input.

**Important note:** The following steps must be passed through with a Voyager 9520/9540 barcode scanner (by Honeywell and Metrologic). If you use another barcode reader please check the corresponding installation and configuration instructions enclosed with the scanner!

For setup of a Voyager barcode scanner you can directly use the following reproduced barcodes.

1. Recall the barcode scanner to its default settings and to its default communication protocol.

   **Recall Defaults**

   ![Barcode for Recall Defaults]

2. Set the prefix character. The default prefix character is the ‘Start of Text’ control character (ASCII 02).

   **Enter Configuration Mode (3 beeps)**

   ![Barcode for Enter Configuration Mode]

   **Enable STX Prefix (1 beep)**

   ![Barcode for Enable STX Prefix]

   **Exit Configuration Mode (3 beeps)**

   ![Barcode for Exit Configuration Mode]

3. Set the suffix character. The default suffix character is the vertical slash character ('|', ASCII 124).

   **Enter Configuration Mode (3 beeps)**

   ![Barcode for Enter Configuration Mode]
4. Disable CR Suffix and LF Suffix. By default the scanner transmits a carriage return and a line feed (CRLF) after each bar code. This setting should be disabled.
Exit Configuration Mode (3 beeps)

3.8.1. The modification of the prefix and the suffix characters (optional)

Authorization codes are read by authorize-it from the system keyboard queue. In order to distinguish the authorization codes from normal keyboard input they must be enclosed by a prefix and a suffix character. That means that a prefix character must be transmitted before the barcode and a suffix character after the barcode. By this the OVS can discern barcodes from normal keyboard input.

Within the basic configuration dialog authorize-it permits to modify the prefix and the suffix character according to the requirements of the used barcode scanner.

Please note:

- The prefix and the suffix characters should be uncommon to avoid interference with common keyboard characters.
- The used barcode scanner must be configured to send the adjusted values too!
3.9. The Installation of the SX Virtual Link Program (only for use with USB device servers)

In case that a USB server is used a special link program must be installed on the processing order-it kiosk or on the processing host system. This program transfers the order number which is read by the attached barcode scanners directly to ‘authorize-it’.

For the recommended Silex USB servers this program is ‘SX Virtual Link’. Further details can be found in the manual for the Silex USB device servers.

For the proper operation of the OVS it is recommended to modify settings which differ from the default settings for the SX Virtual Link program, namely the ‘Options’ and the ‘Favorites’ settings.

**Important note:** The following installation instruction is based on the Silex software enclosed with Silex USB Server SX-DS-4000U2. If you use another version of Silex software or hardware or a different USB server system from another vendor please check the corresponding installation instructions enclosed in the hardware/software package!

3.9.1. The Configuration of the ‘Options’

The ‘Options’ dialogue is invoked by simply clicking the [Options] button (see Figure 42).

![Figure 42: SX Virtual Link - [Options] button](image)

Within the ‘General’ register at least the following check boxes should be ticked (see Figure 43):
- ‘Launch SX Virtual Link at Windows startup’
- ‘Don’t show SX Virtual Link main window on program launch’
- ‘Automatically connect newly discovered USB devices’

![Figure 43: SX Virtual Link - General Options](image)

Proceed by clicking the [OK] button.

3.9.2. The Configuration of the ‘USB Device Properties

Additionally the properties of every barcode scanner which appears in the device server list must be modified. This is accomplished in the following way:

Right click the desired barcode scanner and click the [Properties] item within the pop-up menu (see Figure 44).
Within the displayed settings dialog for the selected USB barcode scanner device click the ‘Connect’ register (see Figure 45).

Within the ‘Connect’ dialog tick both check boxes in the ‘Auto Connect’ frame (as can be seen in Figure 46). By these settings it is ensured that ‘SX Virtual Link’ will always try to establish a connection.
Confirm these new settings by clicking [OK].
The operation window of authorize-it contains a list of all orders which have been validated during the run-time of authorize-it (see Figure 47).

Figure 47: authorize-it with information about validated orders
5. Common Problems and their Solution

5.1. By chance a barcode was inserted twice with the barcode scanner. What can I do?

There is no problem at all. The order will be produced only once. When authorize-it receives the barcode a second time the message in the operation window will be: “Unable to locate or authorize order”.

Note that it is possible however to produce an order once again. This can be made within the Administration Menu – Order Maintenance of every order-it kiosk.

5.2. Unapproved orders are deleted earlier or later than defined within the target configuration

authorize-it compares the time of unapproved orders with the system time of the processing kiosk. If the system time of the kiosks is deviating and the storage time for unapproved orders is rather short this can lead to problems. Please consider to regularly synchronize the system time of the kiosks either manually or by using time synchronization from Windows (please refer to Microsoft Windows help for further information about time synchronization in Windows).

5.3. The order was not produced. authorize-it displays: “Unable to locate or authorize order”

Either the order has already been produced or it cannot be found in the target directory. Please try to produce the order by using the Administration Menu – Order Maintenance menu of the kiosk.

5.4. The code which was sent by the barcode scanner is not accepted.

The authorize-it message is: “Invalid code length received”. This problem generally occurs if a wrong barcode has been sent. Please check whether the barcode scanner configuration is correct (see chapter 3.8).

5.5. Production of orders does not start automatically even though ‘Print orders only after the receipt has been validated by a barcode reader. The production starts automatically after validation (OVS)’ has been chosen in assist-it.

Please check whether authorize-it is running on the processing kiosk (see page 18). If it runs correctly please check the operation mode (‘this kiosk only’ for single kiosk configuration and ‘manual mode’ for multiple kiosk configurations – see chapters 3.7.3 for a single kiosk and chapters 3.7.4, 3.7.5, 3.7.6 for multiple kiosks). In case of ‘manual mode’ please check also the settings of the target directories and whether the processing mode is set to ‘immediately’ (see the same chapters).
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