



ISO QR-Bill Switzerland with Dunning

PREREQUISITES

- Magento 2.4.0 to 2.4.7 p3
- No Third-Party plugins required. This extension is self-sustained.

INSTALLATION STEPS

To install ISO Bill extension, follow the steps below.

Step 1: Download the package.

Step 2: Access your web server directories and unzip and upload the content of the app folder to the path rootFolder/app/

Step 3: Access your web server directories and unzip and upload the content of the lib file to lib/internal/ directory.

Step 4: Run below commands on terminal

- php bin/magento setup:upgrade
- php bin/magento setup:di:compile
- php bin/magento setup:static-content:deploy

Note: The Cron job should work properly for your shop



ADMIN CONFIGURATION

1. General Qr Bill Settings

Log in to the admin panel and navigate to Stores → Configuration → Sales → ISO QR Bill → General QR Bill Settings or Log in to the admin panel and navigate to Sales → QR Bill Invoice → Configuration.

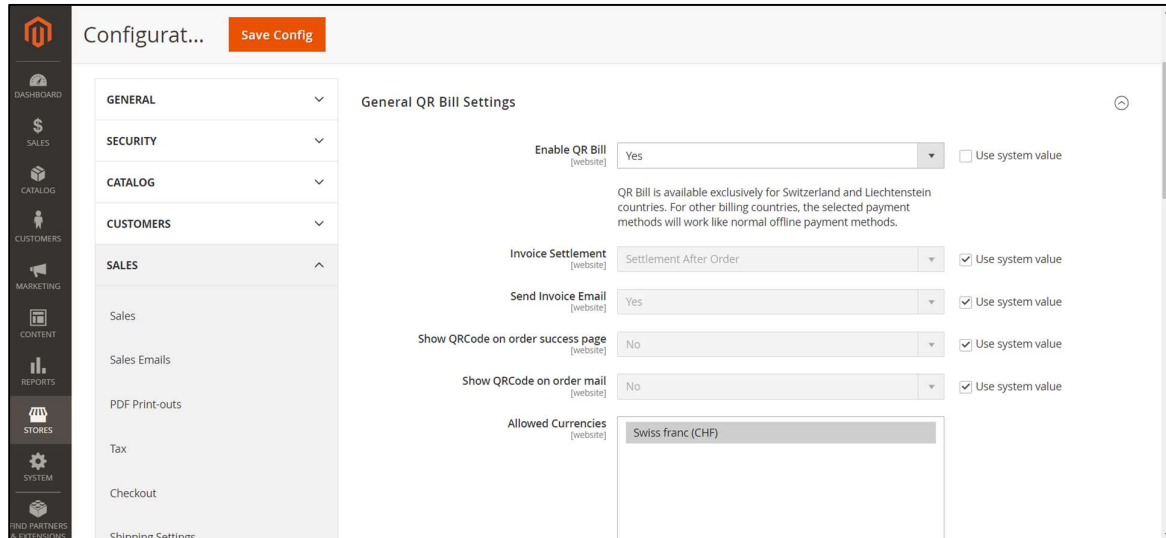


Figure 1

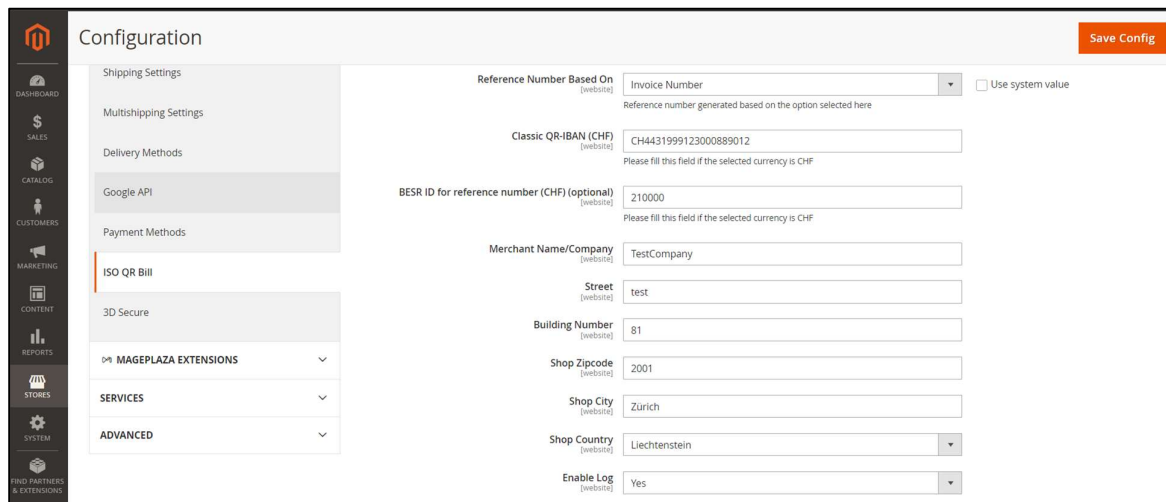


Figure 2



The screenshot shows a configuration page titled "Configurat..." with a "Save Config" button. On the left is a vertical navigation menu with icons for Dashboard, Sales, Catalog, Customers, Marketing, Content, Reports, Stores, System, and Find Partners & Extensions. The main content area contains several input fields and a list:

- Street [website]: zurich 91,
- Building Number [website]: 81
- Shop Zipcode [website]: 8050
- Shop City [website]: Zurich
- Shop Country [website]: Switzerland
- Enable Log [website]: No
- QR Bill applicable payment methods [website]:
 - Check / Money order
 - Purchase Order
 - Bank Transfer Payment
 - Cash On Delivery
 - QR Bill Invoice (highlighted)

Figure 3

Enabled QR Bill – Option to enable the extension.

Invoice Settlement - You can choose the invoice settlement method options. "No invoice settlement" means no invoice is created while placing order and "Settlement after order" means automatically invoice is created after placing order.

Send Invoice Email - You can choose whether you can notify the customer after invoicing the order. If it is set to "Yes" it will send the invoice mail and if it is set to "No" it will not send the invoice mail.

Show QRCode on order success page - Option to show QRCode on Order success page. To display the QR code on the order success page, this option should be set to "Yes," and the Invoice Settlement option should be set to "Settlement after order."

Show QRCode on order mail - Option to show QRCode in Order mail. To display the QR code in the order mail, this option should be set to "Yes," and the Invoice Settlement option should be set to "Settlement after order."

Allowed Currencies – This option to select all allowed currency for qrbill. Only CHF is allowed.

Reference Format - You can choose the reference format for ISO Bill. Format types are Classic Format and SCOR format. If you choose Classic format, then the field for entering Special QR-IBAN and BESR ID for reference number is displayed. For SCOR format, only you need to enter the Classic IBAN field.

Reference Number Based On - The QR Bill reference number is generated based on the option selected here. Two options are available "Order Number" and "Invoice Number"



Classic QR-IBAN (CHF) - This field will show if you choose Reference format "Classic format". This IBAN is the number you receive from your bank. Using this, the reference number for order invoice is created. This should be unique for bank account holders.

BESR ID for reference number (CHF) (optional)- This field will show if you choose Reference format "Classic format". If you have BESR ID (from bank) please fill this field otherwise skip as it is an optional field.

SCOR-IBAN (CHF)- This field will show if you choose Reference format "SCOR format". The IBAN is the number you receive from your bank. Using this, the reference number for order invoice is created. This should be unique for bank account holders.

Merchant Name/Company - Merchant name or company name (Name of the payment receiver). This name will be displayed in QR Bill slip.

Street - Street name where the shop is located

Building Number - Building number of the building in which the shop is located

Shop Zipcode - Zip code of the shop

Shop City - City of the shop

Shop Country - Country of the shop

Enable Log - If enabled error details will be written to qrBillErrorLog.log in rootfolder/var/log directory.

QR Bill applicable payment methods – This option can be used to select all offline payment methods compatible with QR bill.

Additional Information - This field is used for adding any additional information within the generated payment slip with QR code.

Click Here – This link for configure QR bill payment method.

Note:

- You should give correct IBAN number, and you must fill the IBAN field according to the selected currency.
- Qr bill will work only with CHF currency, check whether CHF currency is enabled in your shop. Check this @Admin panel -> Stores -> Configuration -> General -> Currency Setup -> Currency Options -> Allowed Currencies. On frontend, switch the currency to CHF during checkout.
- This payment method is available only for Switzerland and Liechtenstein countries, so during checkout ensure that you choose either Switzerland or Liechtenstein as billing country.
- If you have selected "Settlement after order" as the "Invoice Settlement" settings value then, the invoice is created automatically after placing the



order, and the customer will get an invoice email attached with the invoice pdf. If the “No invoice settlement” option is selected, then no invoice is created while placing order and the admin must create the invoice manually from backend. While creating invoice manually, make sure that invoice is created with “Not capture” option in Amount dropdown, otherwise the invoice become paid and further processing of payment and dunning will not work as expected.

2. Setup QR Bill invoice payment method

The QR Bill invoice payment method is a dedicated payment method for QR Bill invoices. We need to set up General QR Bill Settings to use QR Bill invoice payment during checkout. The QR Bill invoice payment method cannot be activated without configuring the General QR Bill Settings. Unlike other payment methods, QR Bill invoice payment relies on these settings, while other offline payment methods can operate independently without them.

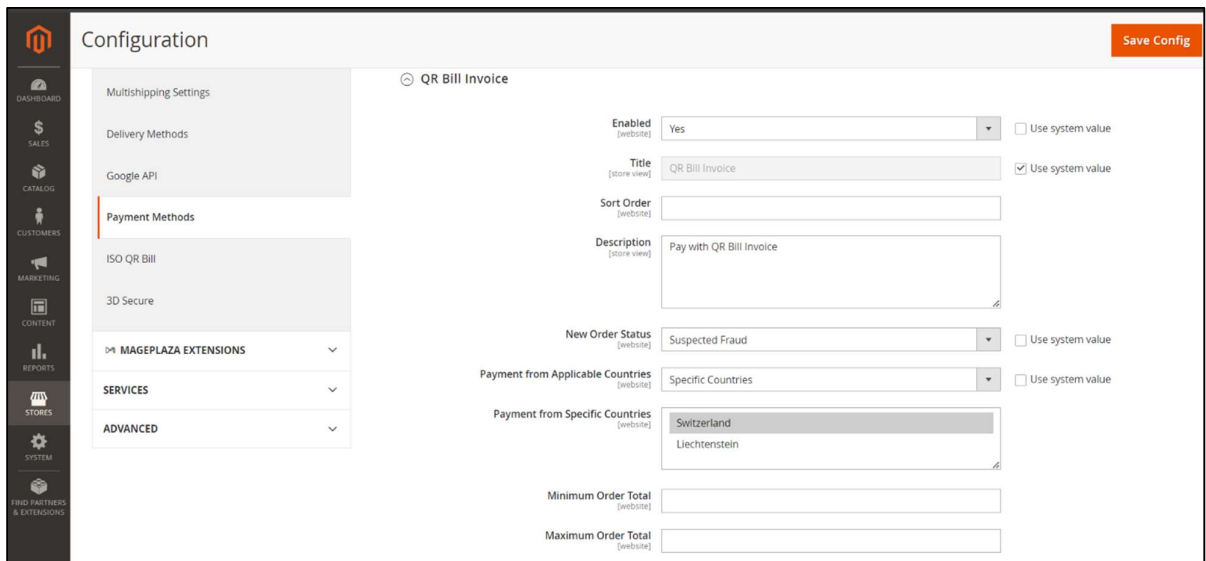


Figure 4

In the above image, we can see the QR Bill payment method configuration listed under “QR Bill Invoice”.



Order Placing with QR Bill

In this section, we discuss how to place an order with QR Bill feature enabled payment method. While placing an order, ensure that you select a country compatible with QR Bill (Switzerland or Liechtenstein) and use the allowed currency (CHF) specified in the General QR Bill settings. If the currency and country are compatible with QR Bill, you can select a QR Bill invoice supported payment method and place the order.

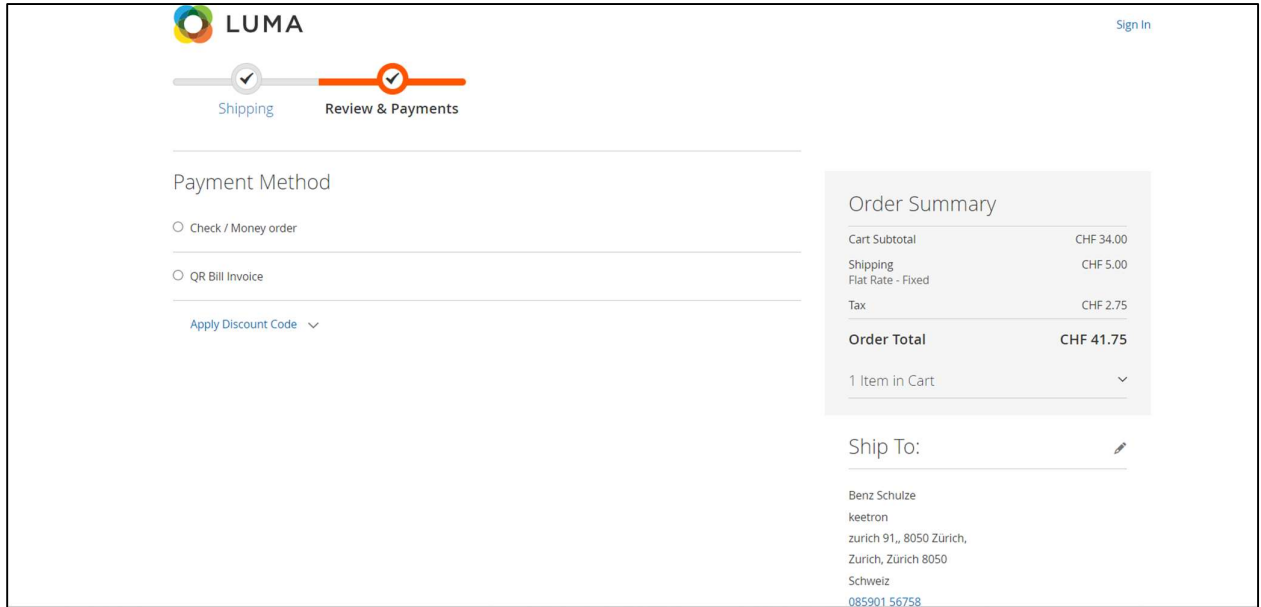


Figure 5

PAYMENT PROCESSING

This section explains the overall workflow and interfaces for managing payments. Below listed operation are the major steps involved in payment processing.

1. **Invoice generation** with QR Bill
2. **Payment processing** through CAMT file

1. INVOICE GENERATION

Once the user places an order through a Qr Bill applicable payment method, system will generate Invoice based on system configuration Invoice Settlement. Two options are available

1. **No invoice settlement** – Invoice is not created automatically after order. Merchant should manually create invoice. Steps are explained below



- Navigate to admin dashboard and open the order you want to create invoice
 - In the header of the sales order, choose the Invoice option.
 - Update the qty to invoice and tick the checkbox to send an email notification to the customer with a copy of the invoice
 - Select “Not capture” option in Amount dropdown to create invoice in pending state
 - Click Submit Invoice at the bottom of the page.
- Refer images figure6 & figure7

Invoice Settlement [website] No Invoice Settlement ▼

Figure 6

New Invoice ← Back Reset

Product	Price	Qty	Qty to Invoice	Subtotal	Tax Amount	Discount Amount	Row Total
Cassia Funnel Sweatshirt SKU: WH08-M-Purple Size: M Color: Purple	CHF 48.00	Ordered 1	1	CHF 48.00	CHF 3.70	CHF 0.00	CHF 51.70

Update Qty's

Order Total

Invoice History
Invoice Comments

Invoice Totals

Subtotal	CHF 48.00
Shipping & Handling	CHF 0.00
Tax	CHF 3.70
Grand Total	CHF 51.70

Amount
Not Capture ▼
 Append Comments
 Email Copy of Invoice

Submit Invoice

Figure 7

2. Settlement after order – Invoice will be created automatically after placing order and QR invoice slip will be sent to customer along with invoice email
Refer Figure 8 for sample QR bill



Separate before paying in


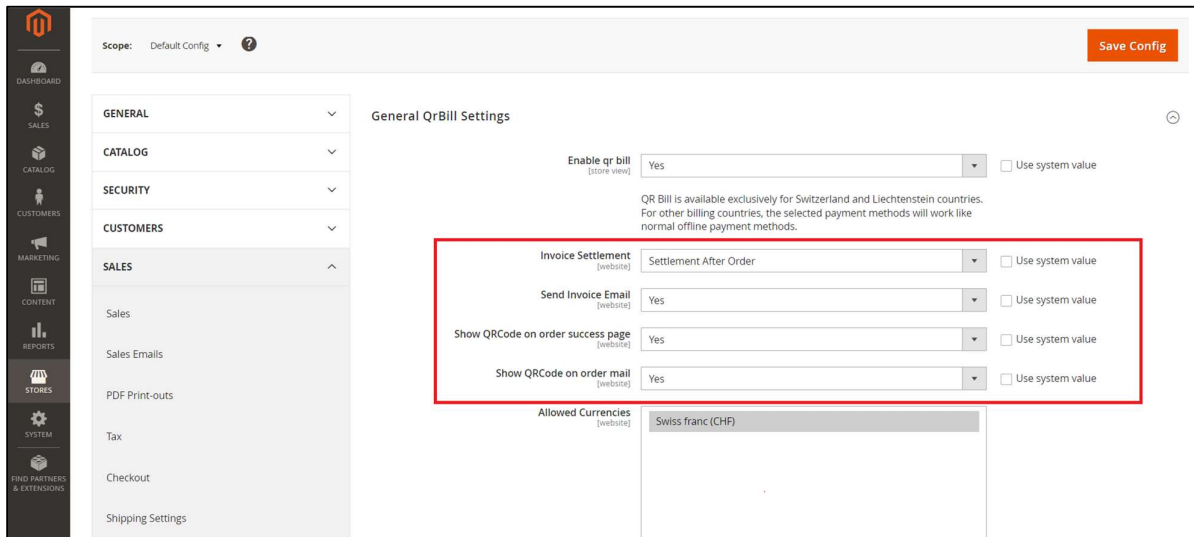
Receipt Account / Payable to CH44 3199 9123 0008 8901 2 Thinkaway 89999 Scot Hamper Reference 21 00000 00000 00000 00000 00329 Payable by Test Order Ship Schachen 244 9044 Wald <table><thead><tr><th>Currency</th><th>Amount</th></tr></thead><tbody><tr><td>CHF</td><td>38.00</td></tr></tbody></table> <p style="text-align: right;">Acceptance point</p>	Currency	Amount	CHF	38.00	Payment part  <table><thead><tr><th>Currency</th><th>Amount</th></tr></thead><tbody><tr><td>CHF</td><td>38.00</td></tr></tbody></table>	Currency	Amount	CHF	38.00	Account / Payable to CH44 3199 9123 0008 8901 2 Thinkaway 89999 Scot Hamper Reference 21 00000 00000 00000 00000 00329 Payable by Test Order Ship Schachen 244 9044 Wald
Currency	Amount									
CHF	38.00									
Currency	Amount									
CHF	38.00									

Figure 8

If we select "Settlement after order" in "General QR Bill Settings," then we have three more options to select in "General QR Bill Settings":



The screenshot shows the "General QR Bill Settings" configuration page. The "Invoice Settlement" dropdown is set to "Settlement After Order". Below it, three other settings are highlighted with a red box: "Send Invoice Email" (Yes), "Show QRCode on order success page" (Yes), and "Show QRCode on order mail" (Yes). The "Allowed Currencies" section shows "Swiss franc (CHF)".

Figure 9

- **Send Invoice Email:** If select Send invoice email "Yes" then invoice email will send after the order placed.
- **Show QRCode on order success page:** If we select Show QRCode on order success page to "Yes" the Qr code will show in the order success page itself.

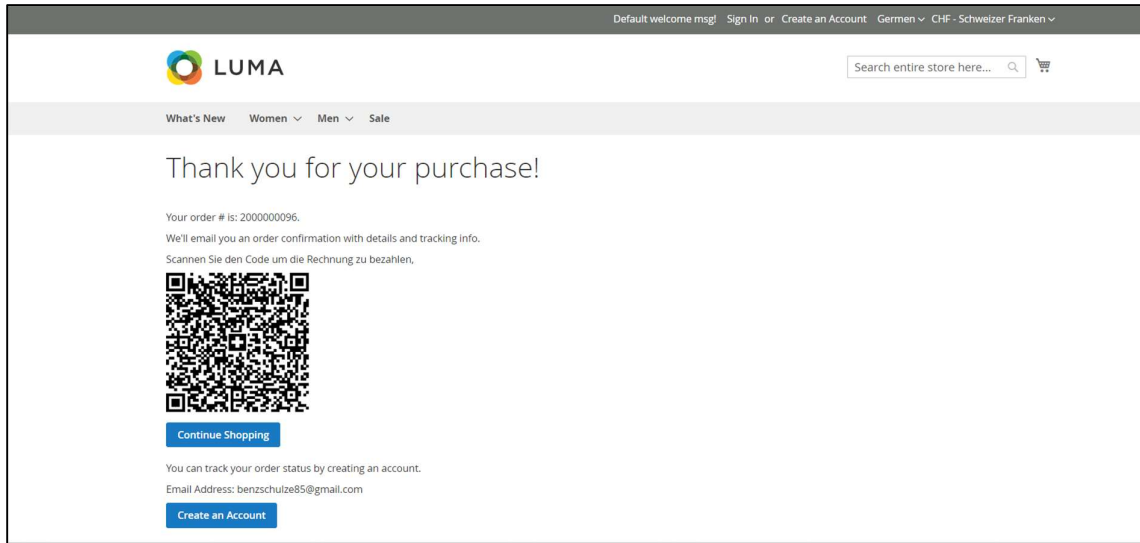


Figure 10

- **Show QR Code on order email:** If we select Show QrCode on order email to “Yes” the Qr code will show in the order confirmation email.



Benz Schulze,

Thank you for your order from Main Website Store. Once your package ships we will send you a tracking number.

If you have questions about your order, you can email us at pitsmail@smtp.displayme.net.

Your Order #2000000096

Placed on 28.05.2024, 14:53:19

Billing Info

Benz Schulze
keetron
zurich 91,
8050 Zürich,
Zurich, Zürich, 8050
Schweiz
T: 085901 56758

Shipping Info

Benz Schulze
keetron
zurich 91,
8050 Zürich,
Zurich, Zürich, 8050
Schweiz
T: 085901 56758

Payment Method

QR Bill Invoice

Scannen Sie den Code um die Rechnung zu bezahlen,



Shipping Method

Flat Rate - Fixed

Items	Qty	Price
Breathe-Easy Tank SKI I: WT09-M-White	1	CHF 34.00

Figure 11



2. PAYMENT PROCESSING

The payments made through QR bill can be updated to Magento shop through processing CAMT file. CAMT file is a statement of payments that are made through QR bill invoice from bank. This can be done in two ways

- Manual processing via uploading CAMT file
- Automatic Processing via Cron job

1. Manual processing

If you are choosing manual processing follow the below steps

- Navigate to configuration Sales → QR Bill Invoice → Process Bank Payments.
- Upload the payment statement from the bank in Camt054 format
- Click Process button in header section (Refer screenshot Figure 12 & Figure 13)

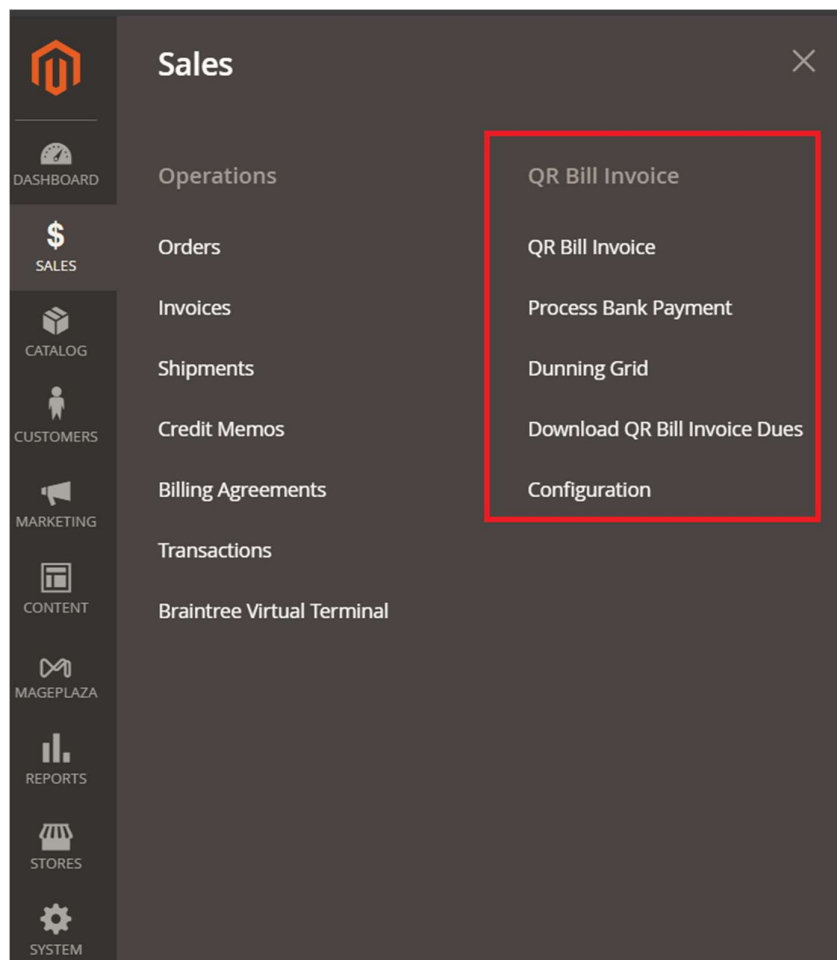


Figure 12



Figure 13

2. Automatic Processing

Automatic Processing of payments can be done through cron job. Follow the below steps

- Setup cron in your server and make sure it is working properly
- Upload payment statement from the bank in Camt054 format to your project rootfolder/pub/media/qrbill/cron/. Cron is configured to run every day at 12.00 am

Once the file is processed, files will be copied and moved to the backup folder for future reference rootfolder /pub/media/qrbill/cron/processed/.

During the payment process, data in CAMT054 file and Magento system is thoroughly checked and validated and if correct it will be processed further. If there is any mismatch or error present in the Camt054 format, the error message will be displayed after file processing. If you try to update amount for a cancelled invoice, module will show error and prevent this action.

Four use cases can be seen while the payment is processed.

- If the reference number of payment file and invoice match, the invoice status and paid status is marked as "paid"
- If customers paid only a less amount, then paid status will be "Paid less" and invoice status will be Pending on the invoice grid
- If customers paid too much, then paid status will be "Paid more" and invoice



status will be Paid on the invoice grid

- If customer is paid without/incorrect reference number, then the invoice will not be processed.

PROCESS PAYMENT GRID

The processed payment details will be reflected in process payment grid. It gives detailed information about each invoice that are processed. Refer Figure 14 & 15 and find description for each field

The screenshot shows a web interface titled "Process Payments" with a "Process" button in the top right. Below the title, it indicates "181 records found" and a pagination control showing "20 per page" and "1 of 10". The main content is a table with the following columns: Id, Invoice Increment Id, ISR Reference Number, Invoice Status - (Direct Invoice Capture is also considered), Is payment processed correctly? (Either through CAMT54 file or by manual entry), Is Payment processed today?, Transaction Amount, Transactions From, Transactions To, Is Valid, Account Service Reference, and ISR Bank Slip Id. Three rows of data are visible, showing various invoice statuses and transaction details.

Id	Invoice Increment Id	ISR Reference Number	Invoice Status - (Direct Invoice Capture is also considered)	Is payment processed correctly? (Either through CAMT54 file or by manual entry)	Is Payment processed today?	Transaction Amount	Transactions From	Transactions To	Is Valid	Account Service Reference	ISR Bank Slip Id
181	000000368	RF59000000368	Paid	Not Ok (Paid More)	No	30.00	Nov 3, 2022 7:00:00 PM	Nov 10, 2022 6:00:00 PM	Yes	2s7nDCsCRXsEXdCxWNDFESFGDad780	a1cf5bd70hsdfer1bggfdb0bf
180	000000368	RF59000000368	Paid	Not Ok (Paid More)	No	77.54	Nov 3, 2022 7:00:00 PM	Nov 10, 2022 6:00:00 PM	Yes	2s7nDCsCRXsEXdCxWNHESFGDad780	a1cf5bd70hsdfer1bggfdb0bf
179	000000367	RF86000000367	Paid	Ok	No	77.54	Nov 3, 2022 7:00:00 PM	Nov 10, 2022 6:00:00 PM	Yes	2s7nDCsCRXsEXdCxWNHESWRRRad780	a1cf5bd70hsdfer1bggfdb0bf

Figure 14

1. **Invoice Increment Id** – Unique Id used to identify each invoice in Magento
2. **ISR Reference Number** - Unique id which is generated according to the Reference format given in configuration.
3. **Invoice Status** – This represents the current invoice status after payment processing. If amount is fully paid invoice status became “paid” otherwise it remains “pending”. If merchant directly captures the payment via invoice capture feature the status also changes to paid



4. **Is payment processed correctly?** – This field gives an idea about whether the payment processing is done correctly or not. It analyses the payment processed through CAMT 54 file and through any manual updates via option available at the field “Update Amount Manually” in QR Bill Invoice Grid. Below are the possible value
- Ok – Invoice is paid fully
 - Not Ok – This indicates that invoice processing is not correct. The possible reasons are invoice is not yet paid or paid amount is less than original amount. If paid amount is more than actual invoice amount it is also considered as not correct even if invoice became “paid”

NB: This column will not match with Invoice status if you capture the invoice directly.

5. **Is Payment processed today?** – This is to easily identify transaction which are processed today. Transaction processed today are marked as “yes” otherwise “no”
6. **Transaction Amount** – Amount processed through CAMT 54 file processing.
7. **Transaction From** – CAMT 54 file gives the list of transaction between a particular range. From date gives the transactions from that date onwards
8. **Transaction To** – To date gives the date up to which transactions are processed.

Process Payments											Process			
20 per page											<	1	of 10	>
Transaction Amount	Transactions From	Transactions To	Is Valid	Account Service Reference	ISR Bank Slip Id	Account IBAN	Payment Reference Number	Payment Booking Date	Camt Type					
30.00	Nov 3, 2022 7:00:00 PM	Nov 10, 2022 6:00:00 PM	Yes	2s7nDCsCRXsEXdCxWNDFESFGDad78O	a1cf5bd70hsdfer1bggfd0bf5c185f206b	CH9300762011623852957	CH9300762011623852957	Jan 10, 2023 6:00:00 PM	54					
77.54	Nov 3, 2022 7:00:00 PM	Nov 10, 2022 6:00:00 PM	Yes	2s7nDCsCRXsEXdCxWNHESFGDad78O	a1cf5bd70hsdfer1bggfd0bf5c185f206b	CH9300762011623852957	CH9300762011623852957	Jan 10, 2023 6:00:00 PM	54					
77.54	Nov 3, 2022 7:00:00 PM	Nov 10, 2022 6:00:00 PM	Yes	2s7nDCsCRXsEXdCxWNHESWRRad78O	a1cf5bd70hsdfer1bggfd0bf5c185f206b	CH9300762011623852957	CH9300762011623852957	Jan 10, 2023 6:00:00 PM	54					

Figure 15



9. **Is Valid** – This represent whether the CAMT 54 data for invoice is valid or not.
10. **Account service reference** – Reference number available in CAMT 54 file against each invoice. This number will be unique, and its validation is done to provide duplicate invoice processing.
11. **ISR Bank Slip Id** – CAMT 54 Slip Id
12. **Account IBAN** – IBAN number
13. **Payment Reference Number** – Reference ID of payment
14. **Payment Booking date** – Date at which payment booking done
15. **CAMT type** – CAMT file type

QR BILL INVOICE GRID

QR Bill Invoice grid list all invoices that are processed through QR payment method. This grid gives detailed information regarding order, invoice status, payment details and dunning details if applicable.

Refer screenshot Figure 16 and find description for each field

Id	Order #	Invoice #	QR Iban	Billing Amount	Billing Currency	Invoice Status - (Direct Invoice Capture is also considered)	Is payment processed correctly? (Either through CAMT54 file or by manual entry)	Amount Paid Through QR Bill	Amount Paid by other means	Update Amount Manually (Enter amount in order currency, Decimals are entered in format X.XX. For Example 0.25)	Reference Id	Reference Type	BESR ID for reference number	Billing Date	Action
<input type="checkbox"/>	312	000000404	000000371	CH9300762011623852957	51.70	CHF	Pending	Not Paid			RF75000000371	SCOR		Jul 27, 2023 2:33:57 AM	Select View
<input type="checkbox"/>	311	000000402	000000370	CH9300762011623852957	51.69	CHF	Pending	Not Paid			RF05000000370	SCOR		Jul 24, 2023 4:45:54 AM	Cancel Invoice Mark As Paid
<input type="checkbox"/>	310	000000402	000000369	CH9300762011623852957	51.70	CHF	Paid	Paid	51.70		RF32000000369	SCOR		Jul 24, 2023 4:26:46 AM	Download Invoice Disable Reminder
<input type="checkbox"/>	309	000000401	000000368	CH9300762011623852957	103.40	EUR	Paid	Paid More	107.54		RF59000000368	SCOR		Jul 24, 2023 3:37:02 AM	View Transaction

Figure 16



1. **Id** - Serial number
2. **Order #** - Order Id
3. **Invoice #** - Invoice Id
4. **QR Iban** - IBAN code given by the bank
5. **Billing Amount** - Original invoice amount
6. **Billing Currency** - Invoice currency, this is same as the currency used for creating order
7. **Invoice Status** - (Direct Invoice Capture is also considered) - Paid status of invoice with respect to Magento
8. **Is payment processed correctly? (Either through CAMT54 file or by manual entry)** - Paid status of invoice will be updated based on the amount paid via the 2 following methods.

a) Camt054 xml file processed @ Admin Panel > SALES > Process Bank Payment

b) Manually updated payment via option available at the field "Update Amount Manually" in QR Bill Invoice Grid

Possible values are listed below.

- Paid: Exact billing amount is paid
- Paid Less: Amount paid is less than billing amount
- Paid More: Amount paid is greater than billing amount
- Not Paid: No amount is paid

NB: This column will not match with Invoice status if you capture the invoice directly.

9. **Amount Paid Through QR Bill** - Amount paid through Camt054 xml file @Admin Panel > SALES > Process Bank Payment
10. **Amount Paid by other means** – This field indicates the payment made by other means like manually updating amount.
11. **Update Amount Manually** – In some scenarios merchant may need to update the paid amount manually. For example, If customer paid the amount directly or by some other payment modes. During such cases merchant can manually



update the paid amount by entering the amount in this field. If invoice is fully paid during this update, we will change the invoice to "Paid" status.

Note: The amount should be entered in billing currency of invoice. Merchant is not allowed to update amount manually for an invoice in paid or cancelled state.

12. **Reference Id** - unique id generating according to the Reference format given in configuration. This unique id is added on QR bill see (Figure 16) Reference Section.
13. **Reference Type** - Two types. Either Classic Format (QRR) and SCOR format. If you choose Classic format, then the reference id is generated based on Special QR-IBAN and BESR ID for reference number (optional). For SCOR format, only Classic IBAN field is used to generate reference id.
14. **BESR ID for reference number** - BESR ID given by the bank (for Classic format reference type)
15. **Billing Date** - Invoice creation date.
16. **Actions** – Actions column allows you to do following process quickly via grid
 - View – Click here to view the invoice details
 - Cancel invoice – Merchant can cancel invoice by clicking here. Then invoice paid status will become "Cancelled".
 - Mark as paid – If you want to manually change the payment status to paid you can use this option.
 - Download Invoice – This option allows you to download invoice pdf from grid.
 - View Transaction – View transaction option can be used to view the CAMT054 payment details. User will be redirected to "process payment grid" with respective payment details



3.DUNNING PROCESS

The ISO QR bill payment method works as a post payment method. Merchant sent the product to the customer along with the invoice to pay. If the customer has not paid the invoice, the merchant may need to send a reminder to the customer. The extension allows processing of dunning in different reminder levels as per merchant requirement.

QR bill payment module allows dunning processing in two methods

1. **Email:** A payment reminder email will be sent to the customer, reminding them of the payment deadline. The extension allows you to customize the title and content of the reminder email according to your business needs.
2. **Print:** When the "Print" option is selected, the merchant must send the dunning information to the customer by post. Backend configuration allows for customization of dunning information.

Dunning Configuration

Login to the Admin and choose Stores → Configuration → Sales → ISO QR Bill. Refer below screenshots and find description for each configuration



General Dunning Settings ⤴

Enable Dunning [global] Yes ▼

Dunning Type/ Reminder Handling Type [website] Automatic ▼ Use system value
Automatic option will process dunning automatically using Magento cron job and if you choose manual then you need to process dunning manually.

Dunning Cron Time [store view] */30 * * * *
User Crontab format (Eg. */5 * * * * for every 5 mins)

Reminder Email Sender Name [store view] Shop Admin Use system value

Reminder Email Sender [store view] .

Send Reminder Email Copy to [store view]

Reminder Email Template [store view] Reminder Notification (Default) ▼
Dunning Email template format

Dunning Fee Tax [website] Excluding Tax ▼ Use system value
This sets whether fee entered in dunning configuration include tax.

Tax Class for Dunning [website] Taxable Goods ▼ Use system value
Set this for dunning product tax class

Assign not paid customers after all reminder level to a particular Customer Group [website] Not assign to any group ▼

Invoice Marked for Collection Agency [store view] 2 Use system value
Number of days after dunning process, the invoice is marked for collection agency

Figure 17



General Dunning settings

1. **Enable Dunning:** Enable or disable dunning
2. **Dunning Type/ Reminder Handling Type:** It can be done in two methods. If you choose automatic, then dunning reminder emails send automatically using Magento cron job and if you choose manual then you need to process dunning manually
3. **Dunning Cron Time** - if you choose Dunning Type option 'Automatic' then this field will be displayed, and you can add the cron time to send reminder emails
4. **Reminder Email Sender Name** - Sender name for reminder emails
5. **Reminder Email Sender** - Sender Email address
6. **Send Reminder Email Copy to** - A copy of the reminder emails will be sent to this email address.
7. **Reminder Email Template** - Choose Reminder email template here
8. **Dunning Fee Tax** – This sets whether fee entered in dunning configuration include tax.
9. **Tax Class for Dunning** - This sets the tax class for dunning fee calculation.
10. **Assign not paid customer after all reminder level to a particular Customer Groups** - This will show all customer groups in your shop, and you can choose a customer group to assign not paid customer after processing all dunning levels.
11. **Invoice Marked for Collection Agency** - Number of days after which unpaid invoices that completes dunning process are moved to collection agency

Dunning Level Specific Settings

Dunning Level specific settings allows merchant to configure settings like interval, fees, and email content specific for each level. Dunning level specific settings can be given storeview wise. New dunning levels can be added by clicking on Add Button. Refer screenshot Figure 18 and find description for each configuration

Dunning Level Specific Settings

Levels [website]

Dunning Level	Interval	Fees	Email Title	Email Content	Pdf Title	Pdf Content	Mode of Reminder	Action
1	2	10	1st Reminde	Kindly transfer the amount due as soon as possible. Attention: We	1st Reminde	Kindly transfer the amount due as soon as possible. Attention: We	Email	
2	4	30	2nd Reminde	Kindly transfer the amount due as soon as possible. Attention: We	2nd Reminde	Kindly transfer the amount due as soon as possible. Attention: We	Print	
<input type="button" value="Add"/>								

Dunning Levels : Create multiple dunning levels in ascending order. Eg: level 1, 2, 3 etc

Position [store view]

Reminder PDF content Position : Specify the position where the reminder content will be shown on PDF.

Figure 18

1. **Dunning Level** – Set dunning level number. Use 1 for the first dunning level to apply. Increase the value accordingly for the consecutive dunning levels.
2. **Interval** - The time interval for dunning process. For example, if you give 5 for first dunning, then it counts 5 days from invoice date. If you set 3 as second dunning interval then it counts 3 days from first dunning processed date
3. **Fees** – Enter Dunning fee for each level in base currency
4. **Email Title** - Email title for the level
5. **Email Content** - Dunning email content which will show on dunning email
6. **Pdf Title** - Pdf title for the level
7. **Pdf Content** – Specify the content to be displayed on dunning pdf
8. **Reminder Type** - If you choose type “Email” then reminder is sent as an Email and if type is “print”, the dunning process will be done but it will not be sent as emails, instead merchant should take printout and send it to customer by post
9. **Reminder PDF content position** – This setting determines the position of reminder specific details in invoice PDF. It can be set to either top or bottom area.



EXECUTE DUNNING

QR bill payment module allows automatic and manual dunning execution. These are explained below.

1. **Automatic:** By automated payment handling, dunning process will be executed as per defined configuration. If “Email” option is chosen for particular dunning level, reminder emails will be sent automatically once the due date is reached. Magento cron job will handle the automated dunning.

Note: Configure cron in your server and make sure it is working properly

2. **Manual:** By manual option merchant should manually process dunning for due payments. If “Email” option is selected for dunning process merchant should manually send the dunning email. Follow the below steps for manual dunning process

- Run Dunning Reminder for all unpaid invoice
- Navigate to Sales → QR Bill Invoice -> QR Bill Invoice Grid
- Click on “Run Dunning Reminder” button in header section - This button action processes all open invoices and sends reminders to all customers with overdue payments. (Refer Figure 19)

QR Bill Invoice

312 records found (2 selected)

Run Dunning Reminder

Id	Order #	Invoice #	QR Iban	Billing Amount	Billing Currency	Invoice Status - (Direct Invoice Capture is also considered)	Is payment processed correctly? (Either through CAMTS4 file or by manual entry)	Amount Paid Through QR Bill	Amount Paid by other means	Update Amount Manually (Enter amount in order currency. Decimals are entered in format XXX For Example 0.25)	Reminder Status	Outstanding Status	Total Billing Amount (including dunning fee)	Current Dunning Level	Current Dunning Mode	Next Dunning Level	Next Dunning Due Date
----	---------	-----------	---------	----------------	------------------	--	---	-----------------------------	----------------------------	--	-----------------	--------------------	--	-----------------------	----------------------	--------------------	-----------------------

Figure 19



- Run Dunning Reminder for selected invoice through Mass Action
- Filter the invoice by field "Outstanding status - Open" to see which invoices needed to be processed (Refer figure 20)

Run Dunning Reminder

Active filters: Outstanding Status: Open

124 records found

Id	Order #	Invoice #	Billing Currency	Invoice Status - (Direct Invoice Capture is also considered)	Is payment processed correctly? (Either through CAMT54 file or by manual entry)	Amount Paid Through QR Bill	Amount Paid by other means	Update Amount Manually (Enter amount in order currency. Decimals are entered in format X.XX For Example 0.25)	Reminder Status	Outstanding Status	Total Billing Amount (including dunning fee)	Reference Id	Action
312	000000404	000000371	CHF	Pending	Not Paid				Enabled	Open	CHF 51.70	RF75000000371	Select
311	000000402	000000370	CHF	Pending	Not Paid				Enabled	Open	CHF 51.69	RF05000000370	Select
285	000000387	000000344	CHF	Pending	Not Paid				Enabled	Open	CHF 51.70	RF28000000344	Select

Figure 20

- Go through the list and "Disable Reminder" for invoices that may have been paid in the meantime or those you do not want to include in dunning process (Refer figure 21)

QR Bill Invoice

Run Dunning Reminder

Id	Order #	Invoice #	Billing Currency	Invoice Status - (Direct Invoice Capture is also considered)	processed correctly? (Either through CAMT54 file or by manual entry)	Amount Paid Through QR Bill	Amount Paid by other means	amount in order currency. Decimals are entered in format X.XX For Example 0.25)	Reminder Status	Outstanding Status	Total Billing Amount (including dunning fee)	Reference Id	Action
312	000000404	000000371	CHF	Pending	Not Paid				Enabled	Open	CHF 51.70	RF75000000371	Select
311	000000402	000000370	CHF	Pending	Not Paid				Enabled	Open	CHF 51.69	RF05000000370	View
285	000000387	000000344	CHF	Pending	Not Paid				Enabled	Open	CHF 51.70	RF28000000344	Cancel Invoice
282	000000386	000000341	CHF	Pending	Paid Less		0.01		Enabled	Open	CHF 51.70	RF12000000341	Mark As Paid
280	000000385	000000339	CHF	Pending	Not Paid				Enabled	Open	CHF 51.70	RF06000000339	Download Invoice
279	000000384	000000338	CHF	Pending	Paid Less		51.70		Enabled	Open	CHF 103.39	RF93000000338	Disable Reminder
278	000000383	000000337	CHF	Pending	Not Paid				Enabled	Open	CHF 51.70	RF23000000337	View Transaction
274	000000380	000000333	CHF	Pending	Paid Less	7.00			Enabled	Open	CHF 66.54	RF34000000333	

Figure 21

- Manually Select the invoices which need to be processed.
- Choose option "Run Dunning Reminder" from Mass Action dropdown. (Refer Figure 22).



- Confirm the popup message and click Ok to execute dunning. During the execution each item in the selected list will be checked and reminder mail will be sent, if dunning time has reached.

Filters Default View Columns

Actions 312 records found (2 selected) 20 per page 1 of 16

Run Dunning Reminder

<input type="checkbox"/>	Id ↑	Order #	Invoice #	QR Iban	Billing Amount	Billing Currency	Invoice Status - (Direct Invoice Capture is also considered)	Is payment processed correctly? (Either through CAMT54 file or by manual entry)	Amount Paid Through QR Bill	Amount Paid by other means	Update Amount Manually (Enter amount in order currency, Decimals are entered in format XXX For Example 0.25)	Reminder Status	Outstanding Status	Total Billing Amount (including dunning fee)	Current Dunning Level	Current Dunning Mode	Next Dunning Level	Next Dunning Due Date
<input checked="" type="checkbox"/>	312	000000404	000000371	CH9300762011623852957	51.70	CHF	Pending	Not Paid				Enabled	Open	CHF 51.70	0	NA	1	Jul 29, 2023 2:33:57 AM
<input checked="" type="checkbox"/>	311	000000402	000000370	CH9300762011623852957	51.69	CHF	Pending	Not Paid				Enabled	Open	CHF 51.69	0	NA	1	Jul 26, 2023 4:45:54 AM

Figure 22



DUNNING GRID

Dunning grid provides details about dunning process, amount and current processing status. Grid can be accessed via Sales → QR Bill Invoice -> Dunning Grid.
(Refer Figure 23)

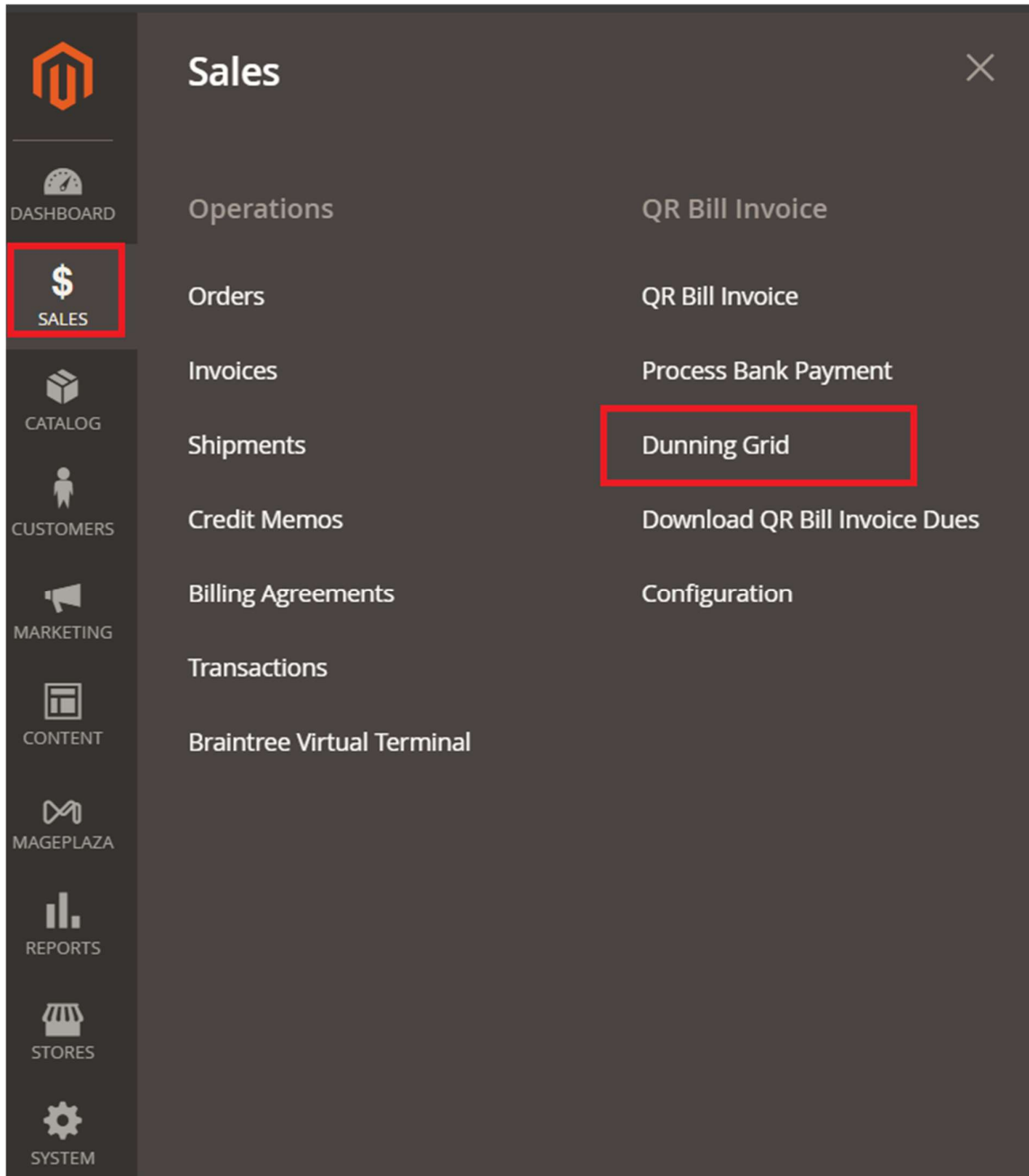


Figure 23



Refer Figure 24 and find description for each field

QR Bill Dunning

134 records found

20 per page 1 of 7

Id ↑	Order #	Invoice #	Invoice Status	Invoice Amount	Due Date	Fee Amount	Tax Amount	Invoice Amount with Dunning Fee	Amount Paid Through QR Bill	Amount Paid by other means	Paid Status	Dunning Level	Reminder Status	Outstanding Status	Action
273	000000378	000000332	Pending	CHF 51.70	Jul 17, 2023 5:15:16 AM	CHF 40.00	CHF 0.00	CHF 91.70	CHF 0.00	CHF 0.00	Not Paid	2	Completed	Open	Select ▾
272	000000377	000000331	Pending	CHF 42.00	Jul 17, 2023 4:58:55 AM	CHF 40.00	CHF 3.08	CHF 85.08	CHF 60.00	CHF 5.08	Paid Less	2	Completed	Open	View Dunning Details
270	000000376	000000330	Pending	€77.54	Jul 21, 2023 2:07:20 AM	€15.00	€1.16	€93.70	€0.00	€0.00	Not Paid	1	Enabled	Open	Download Dunning PDF
269	000000374	000000329	Pending	€77.54	Jul 16, 2023 1:12:36 AM	€60.00	€4.63	€142.17	€0.00	€0.00	Not Paid	2	Completed	Open	Send Email
257	2000000002	2000000002	Paid	CHF 48.47	Jul 8, 2023 7:00:00 PM	CHF 40.00	CHF 3.08	CHF 91.55	CHF 88.47	CHF 3.08	Paid	2	Not Applicable	Closed	Select ▾
256	2000000001	2000000001	Paid	€35.54	Jul 20, 2023 4:25:55 AM	€60.00	€4.63	€100.17	€100.17	€0.00	Paid	2	Not Applicable	Closed	Select ▾
255	000000366	000000318	Paid	CHF 48.47	Jul 20, 2023 3:06:06 AM	CHF 10.00	CHF 0.77	CHF 59.24	CHF 59.00	CHF 0.24	Paid	1	Not Applicable	Closed	Select ▾
254	000000365	000000317	Paid	CHF 48.47	Jul 20, 2023 2:49:57 AM	CHF 10.00	CHF 0.77	CHF 59.24	CHF 59.24	CHF 0.00	Paid	1	Not Applicable	Closed	Select ▾

Figure 24

1. **Id** - Serial number.
2. **Order #** - Order Id.
3. **Invoice #** - Invoice Id.
4. **Invoice Status** - Paid status of invoice with respect to magneto.
5. **Invoice Amount** - Original invoice amount.
6. **Due Date** - Due date for payment.
7. **Fee Amount** - Reminder Fee amount.
8. **Tax Amount** - Tax charged for the reminder fee amount.
9. **Invoice Amount with Dunning Fee** - Invoice amount with reminder fee and tax.
10. **Amount Paid Through QR Bill** - Amount paid through Camt054 xml file @ Admin Panel > SALES > Process Bank Payment.
11. **Amount Paid by other means** – The total amount paid by other means, if applicable.



12. **Paid Status** - Paid status of invoice with respect to the amount paid through

a) Camt054 xml file @ Admin Panel > SALES > Process Bank Payment.

b) Manually updated payment via option available at the field "Update Amount Manually" in QR Bill Invoice Grid.

13. **Dunning level** - This shows the stage of dunning process.

14. **Reminder Status** - Reminder status of the invoice.

15. **Outstanding Status** - This shows whether the outstanding status of the invoice is open or closed. Closed represents all paid and cancelled invoice which is not considered for further processing. Open represents all unpaid invoices.

16. **Action** - Merchant can view dunning details, download the dunning pdf, send reminder email and disable/enable dunning for invoice from this grid.

View Dunning Details from QR Bill Invoice Grid

QRBill invoice grid provides meaningful information regarding dunning execution for all unpaid invoices. Refer Figure 25 and find comments for each field

	Id ↑	Order #	Invoice #	Billing Amount	Invoice Status - (Direct Invoice Capture is also considered)	Reminder Status	Outstanding Status	Total Billing Amount (Including dunning fee)	Current Dunning Level	Current Dunning Mode	Next Dunning Level	Next Dunning Due Date	Dunning Status	Next Dunning Mode	Billing Date	Action
<input type="checkbox"/>	312	000000404	000000371	51.70	Pending	Enabled	Open	CHF 51.70	0	NA	1	Jul 29, 2023 2:33:57 AM	Waiting for settlement	Email	Jul 27, 2023 2:33:57 AM	Select ▲ View
<input type="checkbox"/>	311	000000402	000000370	51.69	Pending	Enabled	Open	CHF 51.69	0	NA	1	Jul 26, 2023 4:45:54 AM	Overdue	Email	Jul 24, 2023 4:45:54 AM	Cancel Invoice Mark As Paid
<input type="checkbox"/>	310	000000402	000000369	51.70	Paid	Not Applicable	Closed	CHF 51.70	NA	NA	NA		NA	NA	Jul 24, 2023 4:26:46 AM	Download Invoice Disable Reminder
<input type="checkbox"/>	309	000000401	000000368	103.40	Paid	Not Applicable	Closed	€103.40	NA	NA	NA		NA	NA	Jul 24, 2023 3:37:02 AM	View Transaction

Figure 25



1. **Reminder Status** – Current reminder status of the invoice. Possible values are listed below.
 - Disabled: Dunning process is disabled for that payment
 - Enabled: Dunning process is enabled for that payment
 - Completed: Dunning process is completed for that payment
 - Not Applicable: Dunning is not applicable for the payments which are already paid or in cancelled state
 - Disabled for Customer: Dunning process is disabled for that particular customer. See section: Exclude Customer From Dunning

2. **Outstanding status** - This shows whether the outstanding status of the invoice. Closed represents all paid and cancelled invoice which is not considered for further processing. Open represents all unpaid invoices.

3. **Total Billing Amount (Including dunning fee)** – If dunning is active, this field gives the final billing amount including dunning fee

4. **Current Dunning Level** – It indicates the current dunning level. Possible values are listed below
 - Level 0: No dunning is processed for that particular invoice.
 - Level 1, 2 etc.: Currently executed dunning level

5. **Current Dunning Mode** – The mode through which current dunning process is executed Possible values are listed below
 - Email : Dunning is processed via sending emails to customer
 - Print : Current Dunning is processed via Print. Merchant should take printout and send it to customer by post.
 - NA: Dunning not active

6. **Next Dunning Level** – It represents the next dunning level to be executed

7. **Next Dunning Due Date** – It indicates the date on which specified dunning level should be executed. It is calculated by adding dunning interval with billing date for level 1 reminders. For rest of the cases due date is obtained by adding interval with previous dunning processed date.

8. **Dunning Status** – It indicates that status of upcoming reminder process.
 - Waiting for settlement: Reminder Due date is not reached yet and waiting for the settlement to happen
 - Overdue – Payment due date is reached and reminder is not yet processed. During some scenarios merchant may opt manual reminder handling and forgot to manually process the dunning. such orders may get stuck in “overdue” status.



- Note: If “Automatic” reminder process is chosen by the merchant the process will be automated by magneto cron and hence this situation can be avoided.
- NA: Dunning not active

9. **Next Dunning Mode** – Mode of execution of next dunning level. It can be configured from general dunning configuration section. Possible values are listed below

- Email: Dunning should be processed via sending emails to customer
- Print: Next dunning is set to Print.
- NA: Dunning not active

Merchants can also use the filter option to easily identify the dunning status. Refer Figure 26 and find comments for each filter options

The screenshot shows the 'Run Dunning Reminder' interface. At the top right, there is a button labeled 'Run Dunning Reminder'. Below it, there are several filter options arranged in a grid. The 'Dunning Status' dropdown menu is open, showing three options: 'NA', 'Overdue', and 'Waiting for settlement'. Other filter options include 'Billing Date' (with 'from' and 'to' date pickers), 'Invoice #', 'QR Iban', 'Billing Amount', 'Billing Currency', 'Is payment processed correctly?(Either through CAMT54 file or by manual entry)', 'Reminder Status', 'Outstanding Status', 'Next Dunning Mode', and 'Reference Id'. At the bottom right, there are 'Cancel' and 'Apply Filters' buttons. The 'Apply Filters' button is highlighted with a red box.

Figure 26

1. **Dunning Status:** filter can be used to identify the overall dunning status for the particular dunning level. “Overdue” option will list all dunning which are not processed yet. ‘Waiting for settlement’ provide dunning list which are in process queue.

2. **Reminder Status:** filter can be used to identify the reminder status for that Invoice. Possible filter option values are listed below

- Enabled
- Disabled
- Completed
- Not Applicable
- Disabled for customer

3. **Next Dunning Mode:** This filter list the next dunning mode. It can be either email or print



Dunning History

Merchant can view the dunning history of an invoice in Invoice view page. Refer Figure 27 and find comments for each field

#000000206										
					← Back	Cancel	Login as Customer	Send Email	Capture	Print
									Grand Total (Incl. Tax)	[CHF183.75]
ISO Billing Dunning										
Dunning Date	Dunning Level	Dunning Fee	Dunning Base Fee	Level Status	Action					
2021-09-24 06:08:30	1	9.40	5.25	Active						
2021-09-24 06:09:54	2	15.04	8.40	Active						
2021-09-24 06:11:02	3	28.19	15.75	Active						
2021-09-24 06:12:09	4	37.59	21.00	Active	Remove					

Figure 27

1. **Dunning Date** : Date in which the dunning is processed. i.e., on this date the fee is added to the invoice and the reminder mail is send.
2. **Dunning level** - This shows the stage of dunning process
3. **Dunning Fee** - The dunning fee added to invoice in order currency
4. **Dunning Base Fee** - The dunning fee added to invoice in base currency of the shop
5. **Level status** - Shows whether the level is active or removed.
6. **Action** - This option is added to remove the reminder fees added to the invoice. Once the last added reminder level is removed, the option is enabled to remove next higher dunning level.



Remove Dunning Fee

In some cases, a merchant may be required to remove a dunning fee that has been added to an invoice. For instance, if a dunning process was not completed correctly due to incorrect configurations, or if the merchant wishes to remove the fee for other reasons.

It can be done from dunning history section in invoice view page. Once we remove the dunning, the system resets the dunning fee and reverts the dunning level to previous level. (Refer Figure 28)

The screenshot shows the 'ISO Billing Dunning' section of an invoice. A modal dialog box is open, displaying a warning message: 'qrbill.displayme.net says: This will permanently remove the dunning level from invoice, but it will not restrict the further dunning processing. Do you want to continue?'. The dialog has 'OK' and 'Cancel' buttons. Below the dialog, the 'ISO Billing Dunning' table is visible, with a 'Remove' link highlighted in a red box for the second dunning entry.

Dunning Date	Dunning Level	Dunning Fee	Dunning Base Fee	Level Status	Action
2023-06-27 12:50:02	1	10.00	10.00	Active	
2023-07-04 06:35:59	2	30.00	30.00	Active	Remove

Summary of invoice amounts:

CHF 22.00
CHF 4.77
CHF 40.00
CHF 23.69
Remaining Amount: CHF 40.00
Grand Total: CHF 66.77

Figure 28



Exclude Customer from Dunning

Dunning can be Exclude for selected customers based on business needs. After excluding, dunning process will not be done for those excluded customers. Go to Admin -> Customers -> All Customers -> Edit Customer -> Open Account Information Tab to see this field. (Refer Figure 29)

The screenshot shows the 'Edit Customer' form in the Admin interface. The form includes the following fields and controls:

- Date of Birth:** A text input field with a calendar icon.
- Tax/VAT Number:** A text input field.
- Gender:** A dropdown menu.
- Send Welcome Email From:** A dropdown menu with 'Default Store View' selected.
- Exclude Customer from QR Bill Reminder:** A toggle switch currently set to 'No', highlighted with a red box.

At the bottom of the form, there is a footer: agento Commerce Inc. All rights reserved.

Figure 29



Download QR Bill Invoice Due Report

The report lists all the invoice details that has completed all the stages of dunning process but not paid yet. Go to Admin → Sales → QR Bill Invoice -> Download QR Bill Invoice Dues

QR Bill Invoice Dues Report

Generate

Filter

Date From *

Date To *

Figure 30

Merchants can generate report by giving Date from and Date to and click on generate.

Order #	Invoice #	Reference ID	QR IBAN	Invoice Date	Invoice Amount	Dunning Fee	Invoice Amount	Invoice Currency	Amount Paid	Remaining Am	Dunning Level	Customer Name	Email	Telephone
#000000103	#000000064	Refid: RF2200	CH930076201	20-04-2023 17:13	79	40	119	CHF	0	119	2	chinchu das	testuser555@	9867452343
#000000107	#000000070	Refid: RF5400	CH930076201	20-04-2023 09:38	175.86	40	216.63	CHF	0	216.63	2	test test	testuser555@	3333333333
#000000111	#000000074	Refid: RF4300	CH930076201	20-04-2023 08:58	165.86	40	208.94	CHF	-12.15	221.09	2	test test	testuser555@	3333333333
#000000112	#000000075	Refid: RF1600	CH930076201	20-04-2023 05:29	23.69	60	87.16	EUR	0	87.16	2	test test	testuser555@	3333333333
#000000113	#000000076	Refid: RF8600	CH930076201	17-04-2023 05:34	35.54	-4.63	32.46	EUR	0	32.46	0	test test	testuser555@	3333333333
#000000114	#000000077	Refid: RF5900	CH930076201	27-04-2023 05:20	35.54	60	99.01	EUR	0	99.01	2	test test	testuser555@	3333333333
#000000115	#000000078	Refid: RF3200	CH930076201	27-04-2023 05:29	79.7	40	122.01	CHF	0	122.01	2	chinchu das	testuser555@	9867452343
#000000117	#000000080	Refid: RF7500	CH930076201	27-04-2023 07:02	34	40	74	CHF	0	74	2	zinha Kapoor	testuser555@	7894561234
#000000124	#000000087	Refid: RF8000	CH930076201	26-04-2023 09:04	23.69	40	64.46	CHF	-2.25	66.71	2	test test	testuser555@	3333333333
#000000125	#000000088	Refid: RF5300	CH930076201	02-05-2023 09:43	84.7	40	125.47	CHF	0	125.47	2	chinchu das	testuser555@	9867452343
#000000128	#000000091	Refid: 210000	CH443199912	28-04-2023 10:53	23.69	37.69	62.15	CHF	50	12.15	2	test test	testuser555@	3333333333
#000000129	#000000092	Refid: 210000	CH443199912	02-05-2023 10:59	23.69	40	66	CHF	0	66	2	test test	testuser555@	3333333333
#000000132	#000000094	Refid: 210000	CH443199912	27-04-2023 06:27	23.69	40	64.46	CHF	10	54.46	2	test test	testuser555@	3333333333
#000000133	#000000095	Refid: 210000	CH443199912	24-04-2023 10:07	23.69	40	64.46	CHF	0	64.46	2	test test	chinchumol.da	3333333333
#000000134	#000000096	Refid: 210000	CH443199912	27-04-2023 12:54	23.69	40	64.46	CHF	0	64.46	2	test test	testuser555@	3333333333
#000000136	#000000097	Refid: 210000	CH443199912	28-04-2023 13:17	23.69	40	64.46	CHF	0	64.46	2	test test	testuser555@	3333333333
#000000140	#000000100	Refid: RF2000	CH930076201	02-05-2023 06:21	23.69	40	64.46	CHF	0	64.46	2	test test	testuser555@	3333333333
#000000141	#000000101	Refid: RF9000	CH930076201	02-05-2023 06:25	23.69	40	64.46	CHF	0	64.46	2	test test	testuser555@	3333333333
#000000143	#000000103	Refid: RF3600	CH930076201	02-05-2023 07:32	28.69	39.23	70.23	CHF	0	70.23	2	test test	testuser555@	3333333333
#000000144	#000000104	Refid: RF0900	CH930076201	26-04-2023 07:57	41.62	37.69	80.08	CHF	0	80.08	2	test test	testuser555@	2222222222
#000000145	#000000105	Refid: RF7900	CH930076201	04-05-2023 05:56	23.69	40	64.46	CHF	0	64.46	2	test test	testuser555@	3333333333

Figure 31



Note: -

In Magento from version 2.4.7-p1 to 2.4.7-p3, manual capture and cancelation of invoices may not function as expected. This is Magento issue identified and the following patches address the solution:

Patch for Invoice Cancelation, <https://github.com/magento/magento2/pull/39314> : Addresses issues related to cancelling invoices.

Patch for Manual Invoice Capture, <https://github.com/magento/magento2/pull/39297> : Resolves manual invoice capture problems.

SUPPORT

If you have questions, use our contact form in webshopextension.com or email at support@webshopextension.com