

C3 MLP Documentation



C3 MLP

Magento Landing Pages

Documentation Version 08

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1. What is MLP?

Curbstone Magento Landing Pages (MLP) is an e-commerce integrator between the Curbstone credit card payment processing engine and the Magento 2.x e-commerce platform.



MLP provides for secure, PCI-compliant e-commerce transactions by separating the transmission, storage and processing of credit card transaction data from the Magento e-commerce shopping cart, allowing the shopping cart and its server to be 'out of scope' for PCI compliance. In this way only the secure MLP with the Curbstone processing engine running on the AS/400 is responsible for transmission, storage and processing of credit card transaction data and is 'in scope' for PCI compliance. As with all implementations of this type, the e-commerce side would only have to complete the minimal PCI SAQ A audit form that is very short.

2. Monitor Your Fees!

CRITICAL

READ IMMEDIATELY



Once Curbstone C3 goes live, **immediately start inspecting your bank DEPOSITS and card fees.** Confirm successful settlements in C3 Settlement Manager. Review daily Settlement e-mails for a 👍 result every day.

Monitor fees closely. Only you, the merchant, can know if you get the best possible rate from your acquirer. Curbstone does not see your processing charges or deposits.



We will gladly help with all issues that you convey.



Support
888-844-8533 24x7
<https://Curb911.com>

3. Important Reference Documentation

Two other Curbstone documents work with this document to provide the complete picture of the operation. The first is the Master Reference that contains the Data Structure, transaction types, and all the other tables and references you need to know how Curbstone works.

The second document is the C3 PLP Documentation that covers that actual operation for the Payment Landing Page (PLP) component that is embedded here and provides the operation of the iFrame for collecting the card data.

Log into the support site

<https://curb911.com/c3>

and you will have access to the current docs. Note that the last two digits on the docs are the version number. Make sure you have the latest docs, and check there occasionally to see if they have been updated.

This is what they look like today:

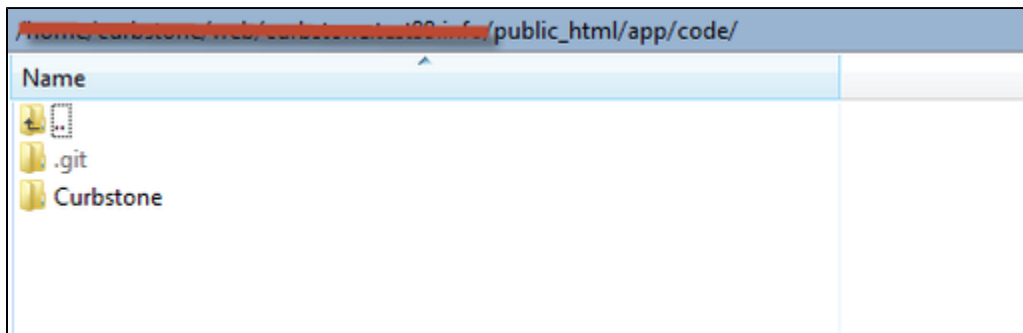


C3_PLP_Documentation_19.pdf

The version numbers will change over time.

4. Setup module

4.1. Upload module on <webroot>/app/code



4.2. Run commands on webroot to setup module.

```
php bin/magento setup:upgrade
```

```
-sh-4.2$ php bin/magento setup:upgrade
Cache cleared successfully
File system cleanup:
/home/curbstone/web/curbstone.test88.info/public_html/generated/code/Amazon
/home/curbstone/web/curbstone.test88.info/public_html/generated/code/Composer
/home/curbstone/web/curbstone.test88.info/public_html/generated/code/Curbstone
/home/curbstone/web/curbstone.test88.info/public_html/generated/code/Dotdigitalgroup
/home/curbstone/web/curbstone.test88.info/public_html/generated/code/Klarna
/home/curbstone/web/curbstone.test88.info/public_html/generated/code/Magento
/home/curbstone/web/curbstone.test88.info/public_html/generated/code/Symfony
/home/curbstone/web/curbstone.test88.info/public_html/generated/code/Temando
/home/curbstone/web/curbstone.test88.info/public_html/generated/code/Vertex
/home/curbstone/web/curbstone.test88.info/public_html/pub/static/adminhtml
/home/curbstone/web/curbstone.test88.info/public_html/pub/static/deployed_version.txt
/home/curbstone/web/curbstone.test88.info/public_html/pub/static/frontend
/home/curbstone/web/curbstone.test88.info/public_html/var/view_preprocessed/pub
Updating modules:
Schema creation/updates:
Module 'Magento Store':
```

```
php bin/magento cache:clean
```

```
-sh-4.2$ php bin/magento cache:clean
Cleaned cache types:
config
layout
block_html
collections
reflection
db_ddl
eav
customer_notification
config_integration
config_integration_api
full_page
translate
config_webservice
-sh-4.2$
```

5. Admin setting payment config

Path: Stores > Configuration > Sales > Payment method

Curbstone Iframe

Enabled
[store view]

Yes

Title
[store view]

Curbstone PLP Checkout

PLP Api Url
[store view]

https://c3plp.net/curbstone/plp/

Curbstone merchant code (MFMRCH)
[store view]

99998

Card entry method (MFMETH)
[store view]

02

Local Tax Flag (MFLTXF)
[store view]

X

Payment Action
[website]

Authorize & Capture

New Order Status
[store view]

Pending

Payment from Applicable Countries
[store view]

All Allowed Countries

6. Curbstone Data Structure Configuration

In the configuration file

`\app\code\Curbstone\Iframe\Model\Payment\CurbstonePayload.php`

are the fields for the Data Structure that you can control.

CurbstonePayload.php

```
<?php
/* Copr. 2018 Curbstone Corporation MLP V0.92 */
/* ... \Curbstone\iFrame\Model\Payment\CurbstonePayload.php */
namespace Curbstone\iFrame\Model\Payment;

use Magento\Directory\Helper\Data as DirectoryHelper;

class CurbstonePayload
{
    protected $request;
    protected $scopeConfig;
    /**
     * @var \Magento\Framework\UrlInterface
     */
}
```

```

protected $_urlInterface;

public function __construct(
    \Magento\Framework\App\Config\ScopeConfigInterface $scopeConfig,
    \Magento\Framework\App\Request\Http $request,
    \Magento\Framework\UrlInterface $urlInterface
) {
    $this->scopeConfig = $scopeConfig;
    $this->request = $request;
    $this->_urlInterface = $urlInterface;
}

public function payLoad(
    $billingAddress, $quote
) {
    $payload = array(
        'MFADD1' => isset($billingAddress->getStreet()[0]) ? isset
($billingAddress->getStreet()[0]) : '',
        'MFADD2' => isset($billingAddress->getStreet()[1]) ? isset
($billingAddress->getStreet()[1]) : '',
        'MFAMT1' => $quote->getSubtotal(), // purchase
        'MFAMT2' => $quote->getShippingAddress()->getData
('tax_amount'), // Tax
        'MFCITY' => $billingAddress->getCity(),
        'MFDSTZ' => $billingAddress->getPostcode(),
        'MFLTXF' => $this->scopeConfig->getValue('payment
/curbstone_iFrame/local_tax', \Magento\Store\Model\ScopeInterface::
SCOPE_STORE), // Local Tax Flag
        'MF METH' => $this->scopeConfig->getValue('payment
/curbstone_iFrame/entry_method', \Magento\Store\Model\ScopeInterface::
SCOPE_STORE), // Card entry method
        'MFMRCH' => $this->scopeConfig->getValue('payment
/curbstone_iFrame/merchant_code', \Magento\Store\Model\ScopeInterface::
SCOPE_STORE), // Curbstone merchant code
        'MFNAME' => $quote->getCustomerFirstname() . " " . $quote->
getCustomerLastname(),
        'MFORDR' => $billingAddress->getTelephone(), // order number
        'MFREFR' => $quote->getId(), // Invoice number
        'MFSTAT' => 'GA',
        'MFTYP2' => $this->scopeConfig->getValue('payment
/curbstone_iFrame/payment_action', \Magento\Store\Model\ScopeInterface::
SCOPE_STORE) == 'authorize' ? 'PA' : 'SA', // Payment action
        'MFTYPE' => 'RA',
        'MFUSD1' => ' ',
        'MFUSD2' => ' ',
        'MFUSD3' => ' ',
        'MFUSD4' => ' ',
        'MFUSD5' => ' ',
        'MFUSD6' => ' ',
        'MFUSD7' => ' '
    );
}

```

```

        'MFUSD8' => ' ',
        'MFUSDA' => 0,
        'MFUSDB' => 0,
        'MFUSDC' => 0,
        'MFUSER' => "",
        'MFZIPC' => $billingAddress->getPostcode(),
        'MPCUSF' => 'quoteEmail='.$this->request->getParam
('quoteEmail'),
        'MPCUST' => 4444888822220000,
        'MPTRGT' => $this->_urlInterface->getUrl('curbstone_iFrame
/index/callback'),
        'MFCUST' => '00001'
    );
    return $payload;
}
}

```

Note especially the User Defined fields starting with MFUSD* that are unique to your implementation.

The field MFTYPE that dictates the transaction type, and is defaulted to "RA". This is a request for authorization and likely should always be that.

The secondary transaction type is MFTYP2 and that is set by the admin config to do a "PRE-AUTHORIZATION" or a "SALE". The difference is that a pre-auth does not FLAG the transaction to be settled in the next settlement batch. A separate transaction must be generated by you, likely from your AS/400, to do that. The type is MFTYPE="RS" to flag to settle, where the MFUKEY from the pre-authorization is used in the MFUKEY field of the RS. At that time, you can also change the MFSETR settlement amount requested to be less than the original authorization amount in the MFAMT1 field. You can update the MFREF invoice number field and many others, including the MFUSD* user-defined fields.

7. Place order

7.1. With Authorize only

This is the use of the Curbstone "Pre-Auth" transaction type

MFTYPE= 'RA'

MFTYP2= 'PA'

This will not set the flag in the transaction to be included in the nightly settlement batch. You are required to generate a "Flag to Settle" transaction referring to it for it to be included.

MFTYPE= 'RS'

MFTYP2= ' '

MFUKEY= {mfukey from the original auth}

The settlement amount will be the amount approved, unless you override it using the MFSETR field. Other fields in the 'RS' will update those in the original authorization. Normally, this would be done from your hshot system, in most cases your IBM Power SYstem running IBM i operating system (aka AS /400).

This can also be performed from the web server software using the Curbstone DSI web services interface that is not covered in this document.

- Setting payment action on admin.

Payment Action
[website]

Authorize

- Place order on frontend

← → ↻

Secure | <https://curbstone.test88.info/index.php/checkout/#payment>

Apps

Inbox - wlecurbsto...

Curbstone PLP DEM...

Access Infor - Goog...

Curbstone-payment

LUMA

✓

Shipping

✓

Review & Payments

Payment Method:

●

Check / Money order

●

Curbstone PLP Checkout

✓

My billing and shipping address are the same

Wayne Le

Address

Plano, Texas 75093

United States

0126587496

Enter Credit Card Info

Card #

4111111111111111

Expires

5

2022

CVV

...

PAY

Click PAY to authorize payment


← → ↻

Secure | <https://curbstone.test88.info/index.php/checkout/onepage/success/>

LUMA

[What's New](#)
[Women](#)
[Men](#)
[Gear](#)
[Training](#)
[Sale](#)

Thank you for your purchase!

 Your order has been successfully created!

Your order # is: 000000053.

We'll email you an order confirmation with details and tracking info.

Continue Shopping

You can track your order status by creating an account.

Email Address: wlecurbstone_test@gmail.com

Create an Account

- Order detail on admin: *Sales > Order > <Select your order>*

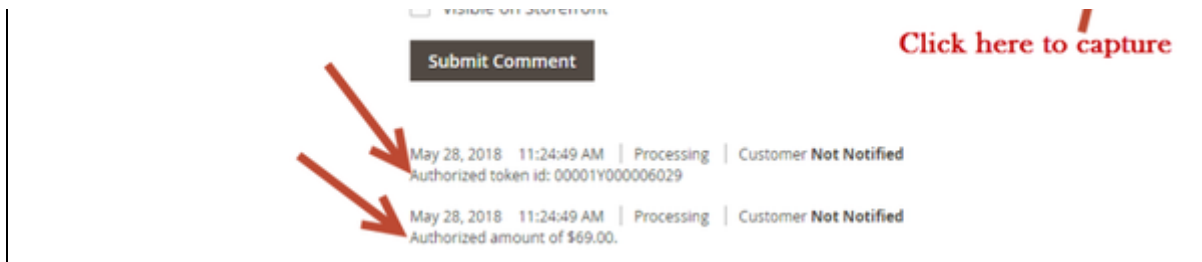
<input type="text" value="Search by keyword"/> Filters Default View Columns									
Actions		42 records found		20 per page					
<input type="checkbox"/>	ID	Purchase Point	Purchase Date	Bill-to Name	Ship-to Name	Grand Total (Base)	Grand Total (Purchased)	Status	Action
<input type="checkbox"/>	000000053	Main Website Main Website Store Default Store View	May 28, 2018 11:24:49 AM	Wayne Le	Wayne Le	\$69.00	\$69.00	Processing	View

#000000053

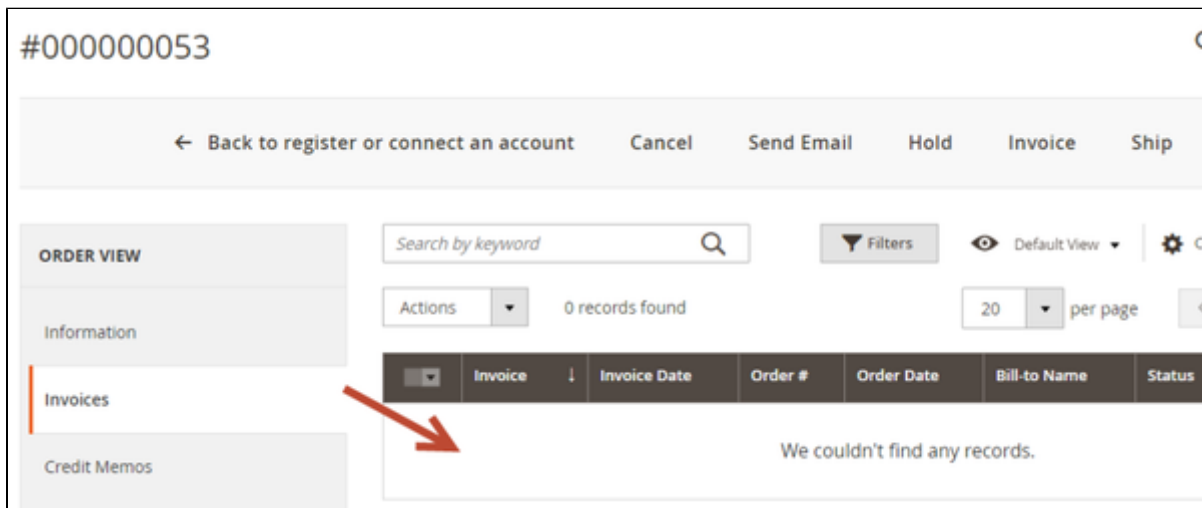
[← Back to register or connect an account](#)
[Cancel](#)
[Send Email](#)
[Hold](#)
[Invoice](#)

☐ Notify Customer by Email
☐ Visible on Storefront

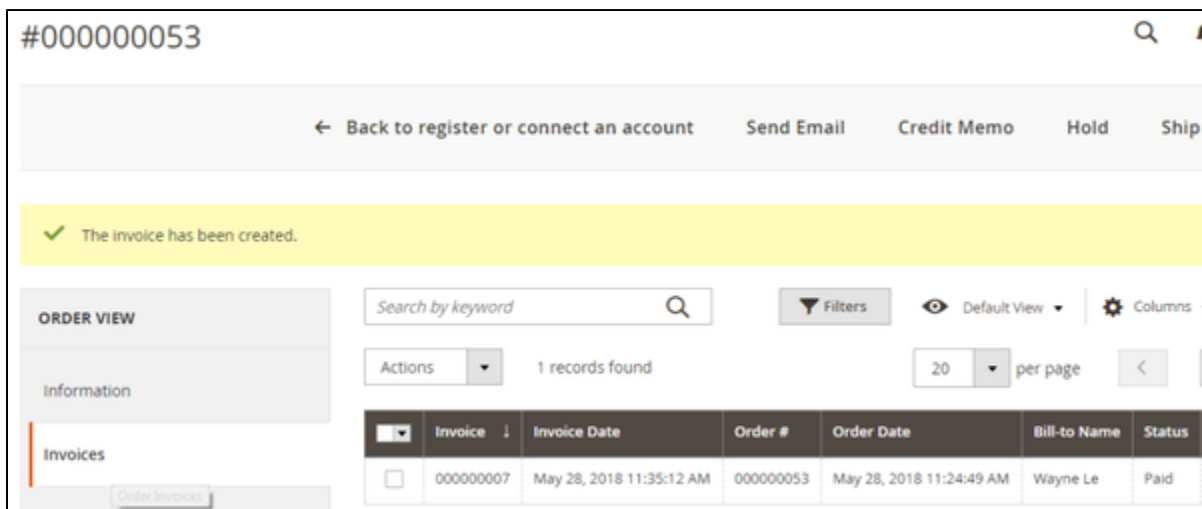
Total Paid
Total Refunded
Total Due



- No transaction invoice when Authorized only, need to invoice order to capture transaction.



- After invoice order (Capture transaction)



7.2. With Authorize and Capture (flag to settle)

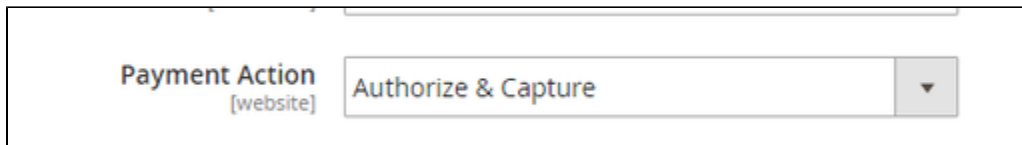
This is the use of the Curbstone "Sale" transaction type

MFTYPE= 'RA'

MFTYP2= 'SA'

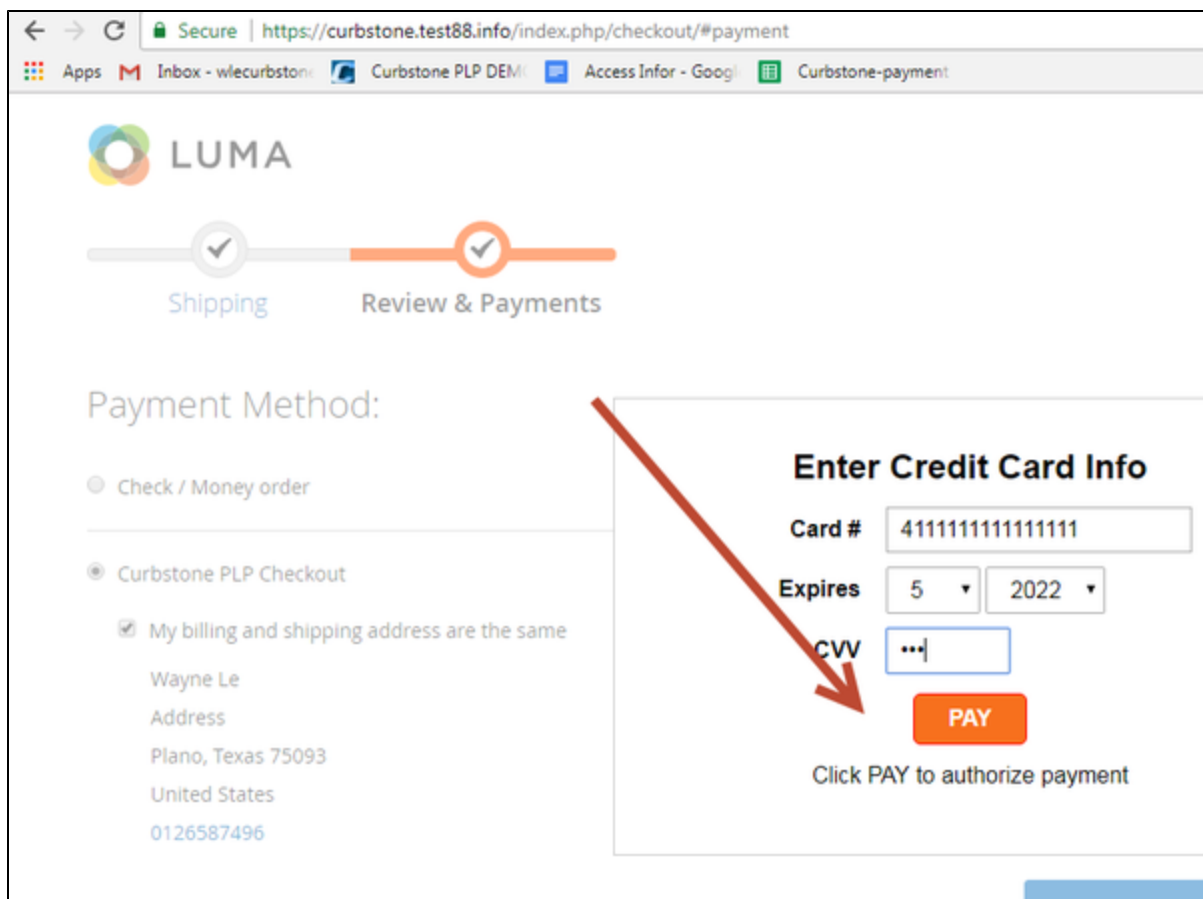
This will set the flag in the transaction to be included in the nightly settlement batch without any further action on your part. The settlement amount will be the amount approved.

- Setting payment action on admin.



A screenshot of a web interface showing a dropdown menu for "Payment Action [website]". The selected option is "Authorize & Capture".

- Place order on frontend




A screenshot of the LUMA checkout page. The page shows a progress bar with "Shipping" and "Review & Payments" steps. The "Payment Method:" section has two options: "Check / Money order" and "Curbstone PLP Checkout". The "Curbstone PLP Checkout" option is selected, and a checkbox "My billing and shipping address are the same" is checked. Below this, the shipping address is displayed: "Wayne Le", "Address", "Plano, Texas 75093", "United States", and "0126587496". A red arrow points from the "Enter Credit Card Info" section to the "PAY" button. The "Enter Credit Card Info" section includes fields for "Card #" (4111111111111111), "Expires" (5 / 2022), and "CV" (123). Below the fields is a red "PAY" button and the text "Click PAY to authorize payment".



A screenshot of the LUMA checkout page showing the success message. The page displays the LUMA logo and the text "LUMA".

[What's New](#)
[Women](#)
[Men](#)
[Gear](#)
[Training](#)
[Sale](#)

Thank you for your purchase!

 Your order has been successfully created!

Your order # is: 000000054.

We'll email you an order confirmation with details and tracking info.

Continue Shopping

You can track your order status by creating an account.

Email Address: wlecurbstone_test@gmail.com

Create an Account

- Order detail on admin: *Sales > Order > <Select your order>*


#000000054

[← Back to register or connect an account](#)
[Send Email](#)


☐ Notify Customer by Email

☐ Visible on Storefront

Submit Comment



May 28, 2018 11:39:00 AM | Processing | Customer **Not Notified**
 Captured token id: 00001Y000006030



May 28, 2018 11:39:00 AM | Processing | Customer **Not Notified**
 Captured amount of \$60.00 online.

- Transaction invoice will be create automatically with Authorized and Captured

#000000054

[← Back to register or connect an account](#)
[Send Email](#)

☐ Notify Customer by Email

☐ Visible on Storefront

Submit Comment



May 28, 2018 11:39:00 AM | Processing | Customer **Not Notified**
 Captured token id: 00001Y000006030



May 28, 2018 11:39:00 AM | Processing | Customer **Not Notified**
 Captured amount of \$60.00 online.

#000000054

Back to register or connect an account Send Email Credit Memo Hold Ship Reorder

ORDER VIEW

Information

Invoices

Credit Memos

Search by keyword

Filters

Default View

Columns

Export

Actions

1 records found

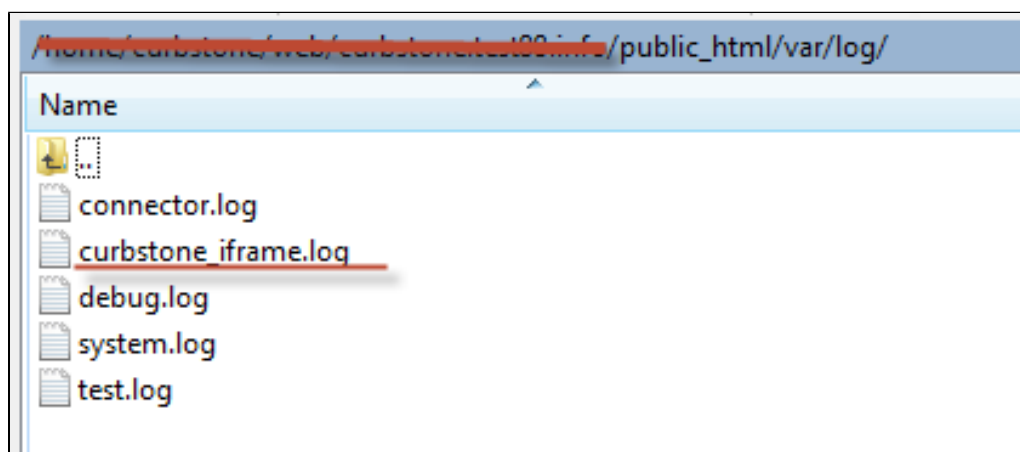
20 per page

1 of 1

Invoice	Invoice Date	Order #	Order Date	Bill-to Name	Status	Amount	Action
<input type="checkbox"/> 00000008	May 28, 2018 11:39:00 AM	00000054	May 28, 2018 11:39:00 AM	Wayne Le	Paid	\$60.00	View

8. Log files

Path to log file: <webroot>/var/log/curbstone_iframe.log



```

curbstone_iframe.log
1 2018-05-28T18:00:01+00:00 INFO (6): Request load Iframe Data:
2 2018-05-28T18:00:01+00:00 INFO (6): Array
3 (
4     [MFADD1] => 1
5     [MFADD2] =>
6     [MFAMT1] => 59.0000
7     [MFAMT2] => 0.0000
8     [MFCITY] => 23213 2daed
9     [MFDST2] => 21312
10    [MFLTXF] => X
11    [MFMRCH] => 02
12    [MFMRCH] => 99998
13    [MFNAME] =>
14    [MFORDR] => 12312312321
15    [MFREFR] => 56
16    [MFSTAT] => GA
17    [MFTYP2] => SA
18    [MFTYPE] => RA
19    [MFUSD1] => 1
20    [MFUSD2] => 2
21    [MFUSD3] => 3
22    [MFUSD4] => 44
23    [MFUSD5] => 5555555
24    [MFUSD6] => 6666666666
25    [MFUSD7] => 7777777777777777
26    [MFUSD8] => 8888888888888888
27    [MFUSDA] => 123456789012345
28    [MFUSDB] => 123456789012345
29    [MFUSDC] => 123456789012.34
30    [MFUSER] =>
31    [MFZIPC] => 21312
32    [MPCUSF] => quoteEmail=admin@amgil.com
  
```

33	[MFCUST] => 4444888822220000
34	[MPTRGI] => https://curbstone.test88.info/index.php/curbstone_iframe/index/callback/
35	[MFCUST] => 00001

8.1.1. End of Document