

# Community Currencies (CC)

This feature has been introduced in Tiki6, and it allows to use community-defined currencies to support trading within Barter Networks using a community-trust based Payment system.



In its current design it requires an external free software package called **CCLite** to handle the transactions out of tiki. This is intentional, since the goal is that not only Tiki-based sites but also other Content Management Systems (Elgg, Joomla, Drupal, ...) can use the same CCLite installation to support intertrading among communities and softwares.

## Basic Terminology

- "Registry": Barter Network

# 1.1. Tiki/Cclite Installation Instructions

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 Instructions

## 1.1.1. Known limitations

- Users must exist in both web sites with exactly the same username (case sensitive)
  - As of July 2010, users must be registered in both sites. In the future we expect that Tiki is able to create users in the CCLite installation with the same or other name, and keep that information in a field of the Group tracker item for each registered user in the Tiki site.
- Registry names and their corresponding currencies must be defined in both sites with the same names (case sensitive)
- payments in community currency are allowed based on the budget of that user account in CCLite.
- there is too little error reporting (so far) when something goes wrong. Some improvements to the cclite code need to be added to make it better.

# 1.1.2. Requirements

- Tiki6.x (6.1+) and CClite 0.7+.
- PHP CURL extension
  - See your PHP Info page and check for a "curl" section: e.g. "example.com/tiki-phpinfo.php"
  - If it's not there:
    - See <http://php.net/manual/en/curl.setup.php> for general info
    - On Debian or Ubuntu do (usual warnings about sudo)

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```
sudo apt-get install php5-curl sudo /etc/init.d/apache2 restart
```

# 1.1.3. Install Barter\_Market profile

- Go to `tiki-admin.php?page=profiles` (logged in as admin)
- Search for "barter" in the Profile box on the default repository
- Click the name "Barter\_Market" that should be the only result
- Fill in the options such as "Browser title", "Site subtitle" and "sitetitle" (leave the cclite and barter ones as they are to use `c2c.ourproject.org`)
- Once the profile has been applied:
  - Read the Instructions page (added by the profile)
  - Go to page `Profile_Barter_Offer_Template` and approve the plugin
  - When it's written, do the same on `Profile_Barter_Want_Template`
  - Clear smarty templates\_c on Admin -> Tiki Cache/Sys Admin

# 1.1.4. Install cclite

The installation of cclite is beyond the scope of this page. Check its own manual for the installation of you own cclite, if you need to. See:

<http://www.hughbarnard.org/?q=node/3>

For the time being, you can request to use the common installation some communities have at:

<http://c2c.ourproject.org>

# 1.1.5. Connect your server to cclite

- Send an email to [cclite@NOSPAM@intercanvis.net](mailto:cclite@NOSPAM@intercanvis.net) (or the contact email for any other cclite installation) containing the IP for your server and the Tiki server address
- You will be sent back the "merchant key" on return
- When you have the merchant key go to [tiki-admin.php?page=payment](http://tiki-admin.php?page=payment) and enter the merchant key and click "Change Settings"

# 1.1.6. Test a transaction

- Create another "normal" user in your Tiki (maybe we should have a default test user there)
- Go to <http://c2c.ourproject.org> and create a user with the same user name there
  - Validate that user (if relevant still?)
- Go back to your Tiki
  - Log in or switch user to your new non-admin user
  - Go to the Offers page,
    - pick one of the items and click "Buy now!",
    - and then "Trade with Cclite"
    - If it all works you should get a message saying

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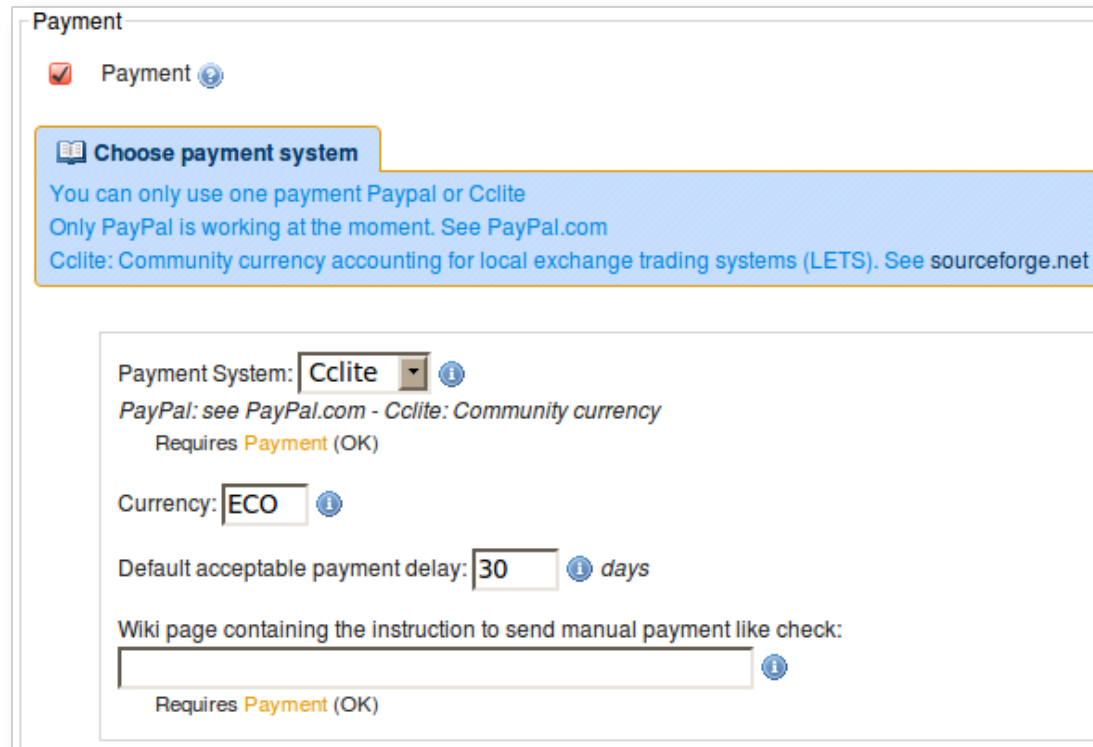
*Cclite payment initiated on 2011-01-26 17:25*

*Transaction Accepted*

*Ref: \*\*\*\*\**

# 1.2. Basic configuration (Tiki side)

You have to select CCLite as the payment system (done by the "Barter\_Market" profile for you).



The screenshot shows the 'Payment' configuration window in Tiki. At the top, there is a 'Payment' section with a checked checkbox and a help icon. Below this is a 'Choose payment system' section with a blue background and text stating: 'You can only use one payment PayPal or Cclite', 'Only PayPal is working at the moment. See PayPal.com', and 'Cclite: Community currency accounting for local exchange trading systems (LETS). See sourceforge.net'. The main configuration area includes a 'Payment System' dropdown menu set to 'Cclite', with a note 'PayPal: see PayPal.com - Cclite: Community currency' and 'Requires Payment (OK)'. Below this is a 'Currency' dropdown menu set to 'ECO', with a note 'Requires Payment (OK)'. The 'Default acceptable payment delay' is set to '30 days'. At the bottom, there is a text input field for a 'Wiki page containing the instruction to send manual payment like check:', with a note 'Requires Payment (OK)'.

Payment

☒ Payment ⓘ

**Choose payment system**

You can only use one payment PayPal or Cclite  
Only PayPal is working at the moment. See PayPal.com  
Cclite: Community currency accounting for local exchange trading systems (LETS). See sourceforge.net

Payment System: **Cclite** ⓘ  
*PayPal: see PayPal.com - Cclite: Community currency*  
Requires **Payment** (OK)

Currency: **ECO** ⓘ


Default acceptable payment delay: **30** ⓘ days

Wiki page containing the instruction to send manual payment like check:  
 ⓘ  
Requires **Payment** (OK)

Then you have to provide the details for the CCLite installation, so that Tiki and CCLite can talk to each other properly  
See an example below:



**Cclite**

 Experimental

Cclite is for creating and managing alternative or complementary trading currencies and groups

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Cclite Registries:  ⓘ

Registry names in Cclite  
Requires **Payment** (OK)

Cclite Registry Currencies:  ⓘ

Each registry in Cclite can have it's own currency. Must be one per registry. (case sensitive)  
Requires **Payment** (OK)

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Cclite Server URL:  ⓘ

<https://cclite.yourdomain.org/cclite/> ⓘ

Requires **Cclite Registries** (OK)

Cclite Merchant User:  ⓘ

Requires **Cclite Registries** (OK)

Cclite Merchant Key:  ⓘ

Requires **Cclite Registries** (OK)

Cclite Enable Payments:  ⓘ

Requires **Cclite Registries** (OK)

Hashing Algorithm:  ⓘ

Requires **Cclite Registries** (OK)

☒ Cclite Payment Notification ⓘ

Requires **Cclite Registries** (OK)

## 1.3. Basic configuration (CCLite side)

You have to provide some details for your basic cclite installation (See the CCLite manual).

And then, each registry that you create, needs to have some basic details also, which comprise a registry name, description, email, among others (*to be continued*):

User Menu | Partners | Create Currency | Show Currencies | Create Ad Ca

**cclite**

**Show Registry Balances**

**Create Rule/Credit Limit**

**Create Registry Partner**

**Upload Batch Files**

**Apply Service Charge**

**Open Office Directory**

**Create Batch Dirs**

**Modify c2c1**

search users

search ads

search trades

Registry Name: c2c1

Registry Description: Barter Network for 'Cornellà de Dalt'

Manager Email: cclite@yourdomain.com

Manager Email Password: .....

Email for Batch Transactions: cclite@yourdomain.com

Batch Email Password: .....

Global Commitment Limit: 100

Merchant Key: 1212121212

Allow Merchant from IP addresses (space separated list): 127.0.0.1 11.222.3.44

Update Latest News:

Note the registry must declared as an ODBC driver under Windows.

Go Cancel

## 1.4. Usage

The usage is pretty intuitive, once the profile "Barter Market" is applied to your Tiki installation.

You have a list of items offered or wanted shown in a page, and you select one of them. Then you have the option to:

- give the amount (in the community currency specified in the item) to person offering it, in order to close the transaction
- get in contact with that user first, to agree on details or state of that item offered or requested.

### Offering

#### bread

my nice bread with seeds. Mmmm, delicious! 😊



**Price: 15**

Transfer 15.00 ECO to xavi for bread (offer# 10)

**Buy now!**

- [Add comment about this offer](#)
- [Watch for changes or comments by others about this offer](#)

Once you click on the button "**Buy now**", you, you initiate a payment request, which you can pay with CCLite or by other means such as plain barter in exchange of some other good or service, etc. If you want to trade with CCLite-based community currency, you can click on the button "**Trade with CCLite**".

**Offering**

**bread**

my nice bread with seeds. Mmmm, delicious! 😊

**Price: 15**

**Transfer 15.00 ECO to xavi for "bread" (offer# 10)**

Status: **outstanding**

Initial amount: 15.00 ECO

Amount remaining: **15.00 ECO**

Payment request was sent on 2010-08-04 and is due by 2010-09-03.

**Trade with Cclite**

- [Add comment about this offer](#)
- [Watch for changes or comments by others about this offer](#)

This will initiate the payment, provided that you have enough amount in that currency in you CClite account. In such case, you'll see a message saying "Transaction accepted" followed by some code ("Ref: XXXX...."):

**Transfer 15.00 ECO to xavi for "bread" (offer# 10)**

Status: **outstanding**

Initial amount: 15.00 ECO  
Amount remaining: **15.00 ECO**  
Payment request was sent on 2010-08-04 and is due by 2010-09-03.

[Refresh page](#)

**Payment info**

Cclite payment initiated on 2010-08-04 [20:39]  
Transaction Accepted  
Ref: RFXJohXMNveBleXITvNsWyJBw

- [Add comment about this offer](#)
- [Watch for changes or comments by others about this offer](#)

If the user is not registered in the CCLite site, a some message will be shown indicating it (for user "test" in this example below):

[Refresh page](#)

**Payment info**

Cclite payment initiated on 2010-08-04 [20:23]  
Connection to cclite server <http://c2c.ourproject.org> failed for test  
"login failed for test at c2c1:"

The previous successful transaction will be recorded also in the CCLite side, at the "**Transactions**" sections, once logged as manager or user with enough rights:

[Admin Menu](#) | [Forgotten Password?](#) | [Deutsch](#) | [Français](#) | [New Account](#) | [Modify](#)

You are managing

[Log out](#)

[Payment](#)

[Split Payment](#)

[Transactions](#)

[Balances](#)

[Goods/Services](#)

[My Ads](#)

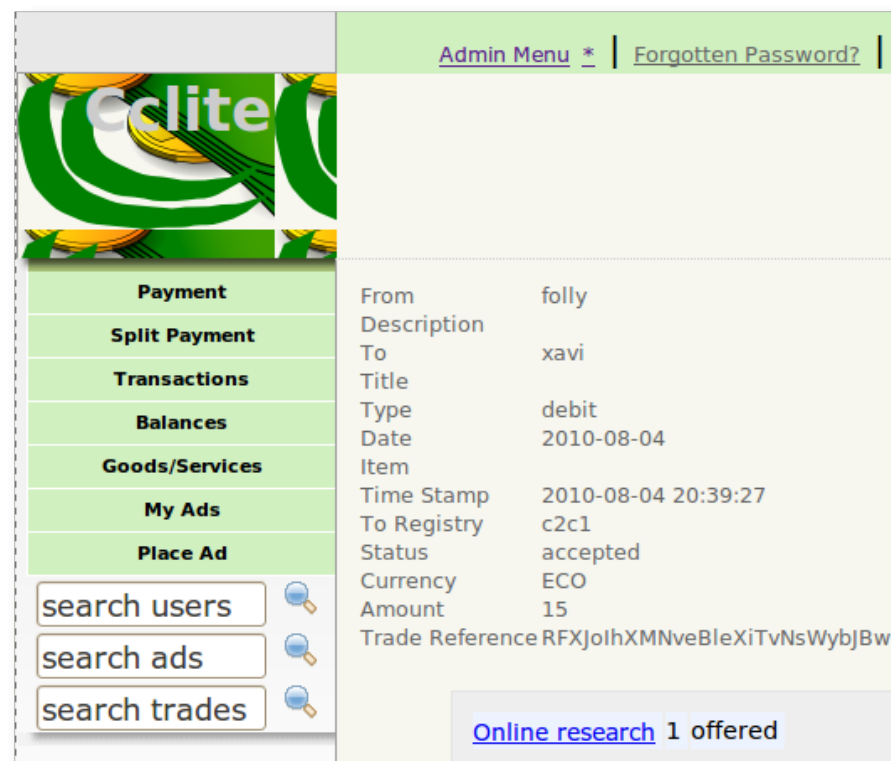
[Place Ad](#)

Pages [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [11](#) [12](#) [13](#) [14](#) [15](#) [16](#) [17](#)

Found 254 all in Trades

display ok noId Status Date Source Destination Mirror Currency Type Amount

<a href="#">Show</a>	254	accepted	2010-08-04	folly	xawi	c2c1	ECO	debit	15
<a href="#">Show</a>	253	accepted	2010-08-04	folly	xawi	c2c1	ECO	credit	15
<a href="#">Show</a>	252	accepted	2010-07-28	xawitest jonnybradley	c2c1	ECO	debit	51	
<a href="#">Show</a>	251	accepted	2010-07-28	xawitest jonnybradley	c2c1	ECO	credit	51	
<a href="#">Show</a>	250	accepted	2010-07-28	xawitest	xawi	c2c1	ECO	debit	100
<a href="#">Show</a>	249	accepted	2010-07-28	xawitest	xawi	c2c1	ECO	credit	100
<a href="#">Show</a>	248	accepted	2010-07-28	jonnytesting	folly	c2c1	ECO	debit	2
<a href="#">Show</a>	247	accepted	2010-07-28	jonnytesting	folly	c2c1	ECO	credit	2
<a href="#">Show</a>	246	accepted	2010-07-23	admin	folly	c2c1	ECO	debit	2
<a href="#">Show</a>	245	accepted	2010-07-23	admin	folly	c2c1	ECO	credit	2
<a href="#">Show</a>	244	accepted	2010-07-23	admin jonnybradley	c2c1	ECO	debit	1	



For more information for the time being, you can see it in action at  
<http://c2c.ourproject.org/tiki>

## 1.5. Add a new barter node to the network

The process to have a new node added to the network is:

1. Install Tiki (if not done already), and apply the Barter profile
2. Request the Merchant ID to the CClite admin, and update your Tiki payment configuration
3. Send to the CClite admin the ip of the server where your Tiki is sintalled, in order to have it added to the cclite configuration.
4. Create users with the same username in the CClite installation as they have in the Tiki

site

(in the future, this will be more flexible)

5. Let the users create their offers and wants in the tiki site.

6. Let them trade through cclite

Todo:

1. Show the list of transactions and status of the budget for users in their userpages

2. Show the list of items offered and wanted (as open, pending, closed) in their user pages.

## 1.6. Links

Profile to easily customize your Tiki6 site to work supporting Barter Networks:

- [http://profiles.tiki.org/Barter\\_Market](http://profiles.tiki.org/Barter_Market)

Related pages and sites:

- <http://intercanvis.net>

Development sites:

- <http://c2c.ourproject.org>
- <http://dev.tiki.org/cc>

CCLite:

- Sourceforge page: <http://sf.net/projects/cclite>



- Author's page: <http://www.hughbarnard.org/?q=node/3>
- Email list: <http://groups.google.co.uk/group/cclite>

Former implementation of CC in Tiki:

- Mod cc
- <http://cc.tiki.org>

Aliases

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CC | CommunityCurrencies | CommunityCurrency | Community Currency | CCLite