

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

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)

```
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 (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 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
“

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).

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

Currency: ⓘ

Default acceptable payment delay: ⓘ 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

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)

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*):

The screenshot shows the CCLite web interface. At the top, there's a navigation bar with links: User Menu, Partners, Create Currency, Show Currencies, and Create Ad Ca. Below this is a sidebar with a CCLite logo and a list of actions: Show Registry Balances, Create Rule/Credit Limit, Create Registry Partner, Upload Batch Files, Apply Service Charge, Open Office Directory, Create Batch Dirs, and Modify c2c1. Below the sidebar are search boxes for users, ads, and trades. The main content area is the 'Modify c2c1' form, which includes the following fields:

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	

At the bottom of the form, there's a note: "Note the registry must declared as an ODBC driver under Windows." and two buttons: Go and 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.

The screenshot shows the 'Our Barter Market' page in a Tiki Wiki CMS groupware. The page has a header with the Tiki logo and the text 'Our Barter Market Join us'. Below the header is a navigation bar with links: Home, About, Calendar, Forums, Files, and Help. The main content area is titled 'Offering' and shows a listing for 'bread'. The listing includes a description: 'my nice bread with seeds. Mmmm, delicious! 😊', a price of 15, and a transfer instruction: 'Transfer 15.00 ECO to xavi for bread (offer# 10)'. There is a 'Buy now!' button and two links: 'Add comment about this offer' and 'Watch for changes or comments by others about this offer'. A small image of a loaf of bread is also shown.

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: RFXJohXMNveBleXiTvNsWybJBw

- 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:

display	ok	noId	Status	Date	Source	Destination	Mirror	Currency	Type	Amount
Show			254 accepted	2010-08-04	folly	xavi	c2c1	ECO	debit	15
Show			253 accepted	2010-08-04	folly	xavi	c2c1	ECO	credit	15
Show			252 accepted	2010-07-28	xavibest jonnybradley	c2c1		ECO	debit	51
Show			251 accepted	2010-07-28	xavibest jonnybradley	c2c1		ECO	credit	51
Show			250 accepted	2010-07-28	xavibest	xavi	c2c1	ECO	debit	100
Show			249 accepted	2010-07-28	xavibest	xavi	c2c1	ECO	credit	100
Show			248 accepted	2010-07-28	jonnytesting	folly	c2c1	ECO	debit	2
Show			247 accepted	2010-07-28	jonnytesting	folly	c2c1	ECO	credit	2
Show			246 accepted	2010-07-23	admin	folly	c2c1	ECO	debit	2
Show			245 accepted	2010-07-23	admin	folly	c2c1	ECO	credit	2
Show			244 accepted	2010-07-23	admin jonnybradley	c2c1		ECO	debit	1

As seen in this detailed image, the last rows correspond to the recent transaction that we have seen in the previous images from the linked Tiki site:

display	ok	noId	Status	Date	Source	Destination	Mirror	Currency	Type	Amount
Show			254 accepted	2010-08-04	folly	xavi	c2c1	ECO	debit	15
Show			253 accepted	2010-08-04	folly	xavi	c2c1	ECO	credit	15

If we click in the "Show" button in CCLite, we will see the full details of that transaction, as stored in the CCLite server:

From	folly
Description	
To	xavi
Title	
Type	debit
Date	2010-08-04
Item	
Time Stamp	2010-08-04 20:39:27
To Registry	c2c1
Status	accepted
Currency	ECO
Amount	15
Trade Reference	RFXJoihXMNveBleXiTvNsWybJBw

[Online research](#) 1 offered

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 installed, 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

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

[CC](#) | [CommunityCurrencies](#) | [CommunityCurrency](#) | [Community Currency](#) | [CCLite](#)