



WHMCS CDN Module Guide

Document version	1.2
Document release date	8 th January 2013
	document revisions

Contents

1. Overview	3
2. Installing the OnApp CDN module	4
3. Configuring CDN as a WHMCS product/service	5
3.1 Add an OnApp server to WHMCS	5
3.2 Configure prices for edge groups in OnApp.....	6
3.3 Create a server group	7
3.4 Create a CDN product	7
3.5 Set up a cron job	8
4. Creating a CDN resource	9
4.1 Placing an order	9
4.2 Enable CDN	10
4.3 Add a new CDN resource	12
4.4 View/Edit/Delete CDN resources.....	14
4.5 Billing Statistics	15
4.6 CDN usage statistics	16
5. Version	17
6. CDN permissions for Admin role	18
7. CDN permissions for User role	19
8. Document revisions	20

1. Overview

The OnApp CDN module for WHMCS allows you to manage CDN billing, and create/edit/delete CDN resources directly from WHMCS.

Setting up and operating the CDN module includes the following major steps covered in this document:

1. Installing the OnApp CDN module
2. Configuring CDN as a WHMCS Product/Service

2. Installing the OnApp CDN module

To install the module:

1. Download the latest OnApp PHP Wrapper from the [OnApp website](#).
2. Extract it to the {WHMCS ROOT}/includes directory. The folder structure should be as follows:

```
{WHMCS root}/includes/wrapper
```

3. Download the latest OnApp CDN WHMCS module from the [OnApp website](#).
4. Extract the files using a .tar extraction program.
5. Upload the modules folder to the root of your WHMCS installation. The folder structure should be as follows:

```
{WHMCS root}/modules/servers/onappcdn/  
{WHMCS root}/templates/portal/onappcdn/  
{WHMCS root}/onappcdn.php
```

6. Skip this step if “portal” is your current Template. Otherwise:

- a. Copy files from this directory:

```
{WHMCS root}/templates/portal/onappcdn/
```

To this directory:

```
{WHMCS root}/templates/{current template name}/onappcdn/
```

- b. Then add a style link between header tags in:

```
{WHMCS root} / templates / {current template name} / header.tpl
```

as follows:

```
<link rel="stylesheet" type="text/css"  
href="modules/servers/onappcdn/includes/style.css" />
```

3. Configuring CDN as a WHMCS product/service

This chapter covers the basics on how to get started with OnApp CDN module.

Before setting up the OnApp CDN module, make sure that your WHMCS is properly configured – that you have configured general system settings, activated payment methods, and set up at least one product group.

Before configuring WHMCS CDN module, you need to:

- Enable CDN in the OnApp dashboard.
- Enable CDN in the OnApp Control Panel:
 - Create CDN edge groups and assign them to billing plans
 - Creating CDN resources.
 - Assign the billing plan to a user, and set their permissions.

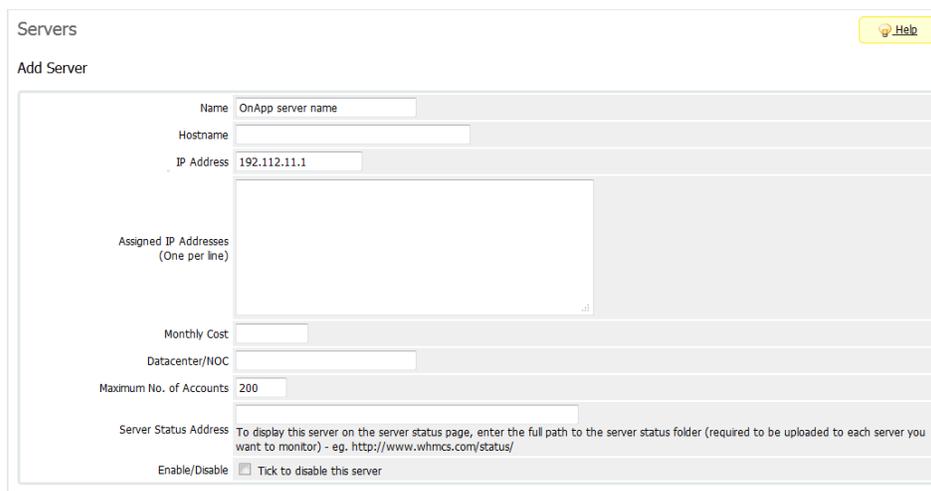
To get more detailed information about CDN, refer to [OnApp documentation](#).

3.1 Add an OnApp server to WHMCS

Before you can create a product, you first need to add an OnApp server to WHMCS.

To add an OnApp server to WHMCS:

1. Log in to your WHMCS **Admin Area**.
2. Go to **Setup >Product/Services>Servers**.
3. On the page that loads, click **Add New Server** link.
4. Fill in the form that appears:



Where:

Name– the optional OnApp server name.

Hostname– the hostname of the server you’re adding. If you connect to the server using secure connection, fill in this field using an https:// prefix.

IP Address – the IP address of the OnApp server.

Enable/disable – tick the box to disable the server.

You may leave other fields blank. Also leave this form blank:



5. Specify server details:



Type – choose Onappcdn from the drop-down box.

Username and **Password**– fill in login credentials which will be used to log in to your OnApp server to create CDN resources. Use Administrator role credentials to perform admin tasks (create/update OnApp user, etc).

Specify the OnApp Username using the following formula:

E-mail 'cdnuser'+{WHMCS service id}+'@'+{WHMCS Service hostname}

Secure– tick to use SSL for connections.

6. Click **Save Changes** to add the server to WHMCS.

3.2 Configure prices for edge groups in OnApp

Before creating the OnApp CDN product in WHMCS, you have to set up an edge group resource in your OnApp billing plan, with price set per GB. Make sure that prices set in WHMCS and OnApp are the same.

It’s not recommended to set more than one edge group in the OnApp billing plan, as the price in WHMCS is set per product, not for the edge group.

The price set in OnApp enables the module to use OnApp's bandwidth statistics, but it is the per-GB price set in WHMCS product settings that determines the actual pricing of the product.

Also note that there is a timezone issue in version 2.3.2 of the OnApp Control Panel: it only tracks billing statistics after a couple of hours, which may cause a mismatch in CDN bandwidth usage data. This will be fixed in the next release..

For details how to configure Billing Plan resources, refer to the [OnApp documentation](#) (the Admin Guide in particular).

3.3 Create a server group

You can also place your servers into a particular server group. This is optional, but it means you will be able to assign products to the whole server group, not just a particular server, and you'll be able to rotate new orders between servers in the group.

To create a server group:

1. Log in to your WHMCS **Admin Area**.
2. Go to **Setup >Product/Services> Servers**.
3. On the page that loads, click **Create New Group** link.
4. Fill in the form that appears:
 - a. Give a name to a server group.
 - b. Choose how the new orders will be rotated.
 - c. Specify the servers which should be placed into a group.
5. Click **Save Changes** to add the new server group to WHMCS.

3.4 Create a CDN product

Make sure you have enabled CDN permissions in OnApp for the User role before completing this step. See the list of [default permissions](#) elsewhere in this document.

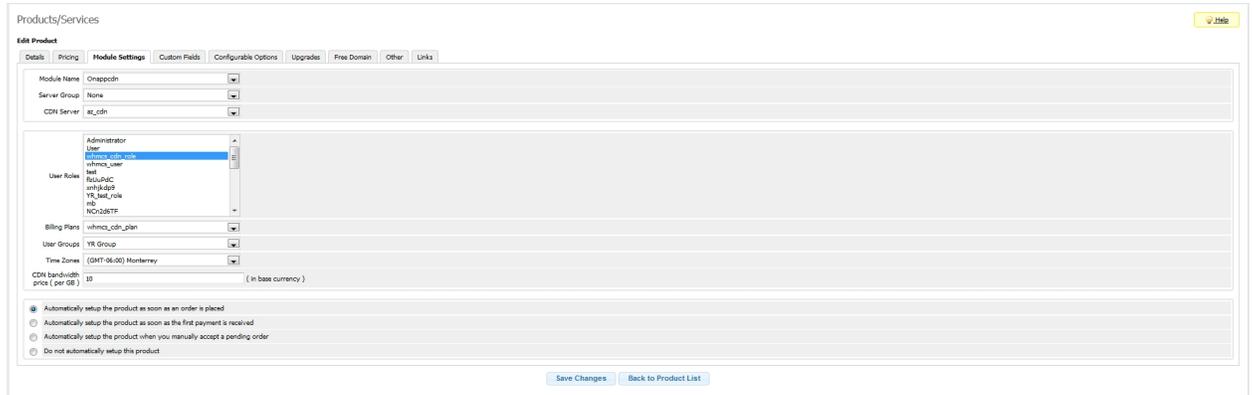
To create a product:

1. Open your **WHMCS Control Panel**.
2. Go to **Setup>Products/Services**.
3. Click the **Create a New Product** link and fill in the form that appears:



- a. Choose the **Other Product/Service** type of product.
 - b. Select the group to which the product will belong on the customer order form.
 - c. Specify the product name.
4. Click **Continue**.

5. Complete the forms in the **Details** and **Pricing** tabs. For instructions, refer to the [WHMCS documentation](#).
6. Go to the **Module Settings** tab and select **OnAppCDN** from the drop-down menu.
7. Complete the form that appears with the details of your product:



- a. Choose **Onappcdn** as the **Module name**.
- b. Choose the **Server Group** from the **Servers** drop-down menu.
- c. Select the **CDN server**.
- d. Specify the **User Role, Billing Plan, User Group** and **Time Zone** that the Onapp CDN user will be created with (the OnApp CDN User is the actual CDN product)
- e. Set the **CDN Bandwidth price**.
8. Click the **Custom fields** tab and fill in the required details. For more information refer to the [WHMCS documentation](#).
9. Skip the **Upgrades** step.
10. Specify the links. Refer to the [WHMCS documentation](#) for details.

For more details on Products/Services in WHMCS, refer to the [WHMCS documentation](#).

3.5 Set up a cron job

To enable automation features you need to set up a cron job:

To collect bandwidth usage every 15 minutes

```
*/15 * * * * php
{WHMCS_ROOT}/modules/servers/onappcdn/crons/cron_bandwidth.php >>
cdn_bandwidth.log
```

To enable monthly billing

```
12 0 1 * * php
{WHMCS_ROOT}/modules/servers/onappcdn/crons/cron_whmcs_billing.php >>
cdn_billing.log
```

4. Creating a CDN resource

To create a CDN resource using the OnApp CDN module, customers order the product and specify the desired CDN resource settings. After creating the CDN resource, the clients can manage their CDN resources directly in their Client Area. The following sections cover these topics in detail.

4.1 Placing an order

You can configure CDN for a client in the Admin Area, or your customers can order the product themselves in the Client area.

To place an order for a particular customer:

- 1 Go to your WHMCS **Admin Area**.
- 2 Go to the **Clients > View/Search Clients**.
- 3 On the page that appears, click the client **ID/Name/Last name** to go to the customer details page.
- 4 Click the **Add new order** link at the **Product/Services** page.

Alternatively, your customers can purchase the OnApp product directly from their Client Area:

1. Log in to your **Client Area**.
2. Click the **Order** link in the **Quick Navigation** pane.
3. Click the **Order Now** button next to a product you would like to purchase.
4. If the desired product is not listed, try choosing another category.
5. Fill in the order form that appears, including product configuration.
6. Complete the order.

For more details on order management, refer to the [WHMCS documentation](#).

4.2 Enable CDN

After the CDN product has been ordered, the CDN user must be created and CDN must be enabled. To enable CDN:

1. Log in to your **Client Area**.
2. Click **My Services** link at the top menu.
3. On the page that appears, click the **View** icon next to the CDN product.

Client Area

[Portal Home](#) > [Client Area](#) > [My Products & Services](#)

My Products & Services

1 Records Found, Page 1 of 1

Product/Service ▲	Price	Billing Cycle	Next Due Date	
OnApp CDN Module - CDN Layla Test Produt	\$0.00 USD	Free Account	-	

Show: [10](#) [25](#) [50](#) [100](#) [All](#)

[« Prev Page](#) [Next Page »](#)

4. Click the **Create CDN** button at the bottom of the list:

Client Area

[Portal Home](#) > [Client Area](#) > [My Products & Services](#) > [Product Details](#)

Product Details

Registration Date:	20/04/2012
Product/Service:	AZ_CDN - test
Bandwidth:	50
CPU Cores:	1
CPU Priority:	1
Disk Size:	5
IP Addresses:	1
Port Speed:	1
RAM:	0 x ram
Payment Method:	Bank Transfer
First Payment Amount:	\$0.00 USD
Recurring Amount:	\$0.00 USD
Next Due Date:	-
Billing Cycle:	Free Account
Status:	Active

[Create CDN](#)

5. The CDN user will be created automatically. Click the **Enable CDN** button to enable CDN.

4.3 Add a new CDN resource

To create a CDN resource:

1. Log in to your **Client Area**.
2. Click **My Services** link at the top menu.
3. On the page that appears, click the **View** icon next to the CDN product.
4. Click **New CDN Resource** button.

Client Area

[Portal Home](#) > [Client Area](#) > [CDN Resources](#)

[CDN Resources](#)

New CDN Resource

Provide the details for a CDN Resource and select at least one Edge Group.

Cdn Resource Properties

The CDN hostname and origin site must be the domain name only

CDN Hostname	<input type="text" value="cdn.example.com"/>
Origins	<input type="text" value="exaple.com"/>
Resource Type	<input type="text" value="HTTP PULL"/>
Advanced Settings	<input type="checkbox"/>

Edge Groups

dublin, IE	<input checked="" type="checkbox"/>
------------	-------------------------------------

Language:

5. Complete the form that appears with the details. Specify the **CDN Hostname, Origins, Resource type** and **Edge Groups**.
6. Click the **Advanced Settings** box to specify the **IP Access, Country Access, Hotlink Policy, Url Signing, Cache Expiry** and **Password**:

7. Click the **Create CDN Resource** button to apply changes.

Advanced Settings

Ip Access

Ip Access Policy

Ip Access

Country Access

Country Access Policy

Country Access

Hotlink Policy

Hotlink Policy

Url Signing

Protect your files from unauthorized access with a key and optionally an expiration time. A signed URL looks like `http://example.com/filename?secure=DMF1ucDxtqgwYQ==_1822659070``.

Enable URL Signing

Cache Expiry

Cache expiry is set in minutes.

Cache Expiry

Password

Clear both fields to remove a user.

Enable Password

Edge Groups

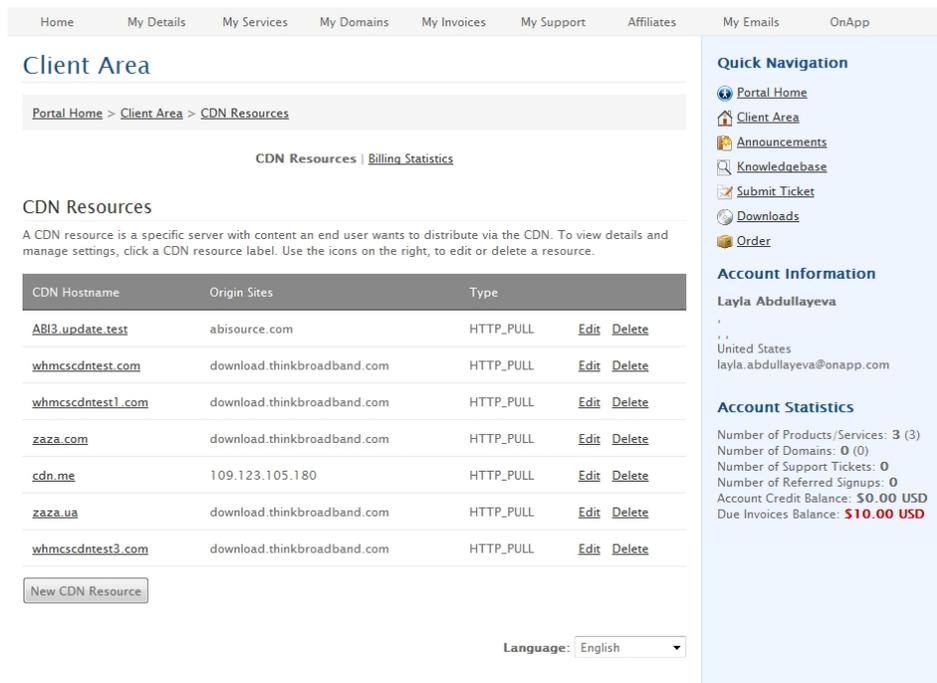
london, GB
dublin, IE

4.4 View/Edit/Delete CDN resources

Once your customers purchased a product based on the WHMCS CDN Module, they can manage their CDN resources directly in their Client Area.

To view the list of CDN resources:

1. Log in to your **Client Area**.
2. Click the **My Services** tab at the top menu.
3. Click the **View** icon next to the CDN service.
4. On the screen that appears, click the **CDN Resources** link at the bottom of the page.



The screenshot shows the OnApp Client Area interface. At the top, there is a navigation menu with links: Home, My Details, My Services, My Domains, My Invoices, My Support, Affiliates, My Emails, and OnApp. Below the menu, the page title is "Client Area". A breadcrumb trail shows "Portal Home > Client Area > CDN Resources". Underneath, there are links for "CDN Resources" and "Billing Statistics".

The main content area is titled "CDN Resources" and includes a brief description: "A CDN resource is a specific server with content an end user wants to distribute via the CDN. To view details and manage settings, click a CDN resource label. Use the icons on the right, to edit or delete a resource." Below this is a table with the following data:

CDN Hostname	Origin Sites	Type	
ABI3_update_test	abisource.com	HTTP_PULL	Edit Delete
whmcsdntest.com	download.thinkbroadband.com	HTTP_PULL	Edit Delete
whmcsdntest1.com	download.thinkbroadband.com	HTTP_PULL	Edit Delete
zaza.com	download.thinkbroadband.com	HTTP_PULL	Edit Delete
cdn.me	109.123.105.180	HTTP_PULL	Edit Delete
zaza.ua	download.thinkbroadband.com	HTTP_PULL	Edit Delete
whmcsdntest3.com	download.thinkbroadband.com	HTTP_PULL	Edit Delete

Below the table is a "New CDN Resource" button and a language dropdown menu set to "English".

The right sidebar contains "Quick Navigation" links: Portal Home, Client Area, Announcements, Knowledgebase, Submit Ticket, Downloads, and Order. Below that is "Account Information" for Layla Abdullayeva, showing contact details and "Account Statistics" such as Number of Products/Services: 3 (3), Number of Domains: 0 (0), Number of Support Tickets: 0, Number of Referred Signups: 0, Account Credit Balance: \$0.00 USD, and Due Invoices Balance: \$10.00 USD.

5. The page that appears will list your CDN resources. Click the resource name to view its details.
6. To view the CDN resource's advanced details, click the **Advanced Details** tab.
7. To pre-populate HTTP Pull content to the CDN, click the **Fetch** tab, set the prefetch path and click **Prefetch** button:
8. To set the Purge tool, click the **Purge** tab, specify paths on the CDN Resource to purge (one per line) and click **Purge** button.
9. To view Bandwidth statistics, click the **Bandwidth Statistics** tab:
10. To edit/remove the CDN resource, click the edit/delete links next to it.

For more details on CDN, refer to the [OnApp documentation](#) (particularly the Admin Guide).

4.5 Billing Statistics

CDN billing statistics are generated for the total amount of customers' CDN resources. They are measured and charged per MB.

To view CDN billing statistics:

1. Login to your **Client area**.
2. Click the **My Services** tab.
3. Click the **Details** icon next to the CDN product.
4. Click the **CDN Resources** tab at the bottom of the list.
5. On the page that appears, click the **Billing Statistics** tab.

Client Area

[Portal Home](#) > [Client Area](#) > [CDN Resources](#) > [Billing Statistics](#)

[CDN Resources](#) | [Billing Statistics](#)

Billing Statistics

Here you can view daily usage costs and total amounts of all your cdn resources.

1 All

Items per page: 25

Date	CDN Resource	Traffic	Price in base currency (per GB)	Currency Rate	CDN bandwidth price (per GB)	Cost
2012-04-28	zaza.com	125.833 MB	5	1	\$ 5 USD	\$ 0.6292 USD

1 All

Total Amount: \$ 0.63 USD
 Paid Invoices Amount: \$ 0 USD
 Unpaid Invoices Amount: \$ 0.52 USD
 Not Invoiced Amount: \$ 0.11 USD

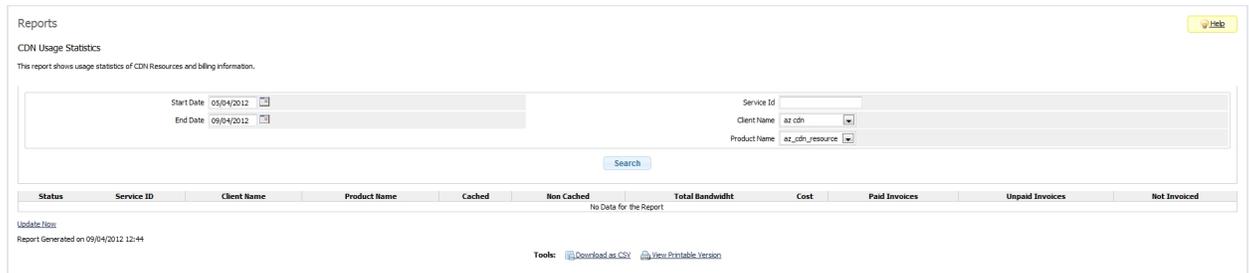
Language: English

4.6 CDN usage statistics

CDN usage statistics report shows billing information and usage statistics for CDN Resources.

To view CDN usage statistics:

1. Go to to your WHMCS **Admin** area
2. Go to **Reports>Reports**
3. On the screen that appears, click **CDN Usage statistics** link:



Reports

CDN Usage Statistics

This report shows usage statistics of CDN Resources and billing information.

Start Date: 05/04/2012
End Date: 09/04/2012

Service ID:
Client Name: az cdn
Product Name: az_cdn_resource

Search

Status	Service ID	Client Name	Product Name	Cached	Non-Cached	Total Bandwidth	Cost	Paid Invoices	Unpaid Invoices	Not Invoiced
No Data for the Report										

Update Now:
Report Generated on 09/04/2012 12:44

Tools: [Download as CSV](#) [View Printable Version](#)

4. Set the required search parameters on the CDN Usage statistics page and click the **Search** button.

5. Version

To determine which version of the module you are using, open the following file:

```
{WHMCS root}/modules/servers/onappcdn/version
```

6. Default CDN permissions for Admin role

The list of CDN permissions for the Admin role in OnApp:

- See list of all billing plans (billing_plans.list)
- See details of any billing plan (billing_plans.read)
- Any action on CDN resource (cdn_resources)
- See details of CDN usage statistics (cdn_usage_stats)
- User can see CDN usage statistics (cdn_usage_stats.read)
- See list of all currencies (currencies.read)
- See all edge groups (edge_groups.read)
- See all groups (groups.read)
- See all permissions (permissions.read)
- See all roles (roles.read)
- View OnApp version (settings.version)
- See list of all user groups (user_groups.list)
- See details of any user group (user_groups.read)
- Create a new user (users.create)
- Destroy any user (users.delete)
- User can log in as any user (users.login_as)
- See all users (users.read)
- Suspend/unsuspend user (users.suspend)
- Unlock locked user (users.unlock)
- Update any user (users.update)

7. Default CDN permissions for User role

The list of default CDN permissions for the User role in OnApp:

- Create a new CDN resource (cdn_resources.create)
- Destroy own CDN resources (cdn_resources.delete.own)
- See own CDN resources (cdn_resources.read.own)
- Update own CDN resources (cdn_resources.update.own)
- User can see own CDN usage statistics (cdn_usage_stats.read.own)
- See own base resources (base_resources.read.own)
- See own billing plan (billing_plans.read.own)
- View OnApp version (settings.version)
- See own users (users.read.own)

8. Document revisions

v1.2, 8th January 2013

- Added [CDN permissions for Admin role](#) section.

v1.1, 7th May 2012

- Corrected screenshots and information in the [Creating a CDN resource](#) chapter.

v1, 4th May 2012

- First release