



ISPAPI Registrar Module

Domain Management using WHMCS & HEXONET

Version 1.0.22 (or later version)

November 14, 2014



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The logo for HEXONET, featuring the word "HEXONET" in a bold, blue, sans-serif font. The "X" is stylized with a horizontal line through it.

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Supported Features

The registrar module supports the following functions and features:

- Domain Registration
 - Additional domain fields
- Domain Transfer (with AuthInfo code support)
- Domain Management
 - Domain locking
 - Update Contact Information (with UTF-8 support)
 - Change Nameservers
 - Nameserver Registration (Add, Modify, Delete)
 - Explicit Deletions supported in Admin panel
- Domain Renewal
 - Special handling for registries without explicit renewals (many ccTLDs)
- DNS Management
 - Record-Types: A, AAAA, MX, MXE, CNAME, TXT
 - Allows user defined TTL values and MX priorities
- Email forwarding
- URL forwarding
 - Redirect using HTTP
 - Forward using HTML Frame
- Optional TLS/SSL for API connection
 - Supports proxy server for accelerated API access
- Support for testing environment
- WHOIS Privacy management of .CA domain names
- Change of Registrant for .CA domain names
- Support for WHOIS Privacy / ID Protection
 - Uses privacy service WHOISTRUSTEE.com
 - ID Protection toggle in Admin area gets synchronized
 - Client area WHOIS Privacy management

- Support for all bulk update operations
- Support for IDNs
 - automatically selects IDNA2008 if supported by TLD (e.g. .de)
 - uses API based IDN conversion by default
 - can be configured to use PHP method instead
- Support for new domain sync method (_Sync)
 - Workaround for ccTLDs that need to get renewed before expiration
- Support for new transfer auto-completion (_TransferSync)
- ispapisync.php got deprecated

Installation

Copy all files from the **install/** subdirectory to your WHMCS installation root directory (**\$YOUR_WHMCS_ROOT**), while keeping the folder structure intact.

E.g.

```
install/modules/registrars/ispapi/ispapi.php  
=> $YOUR_WHMCS_ROOT/modules/registrars/ispapi/ispapi.php
```

Configuration

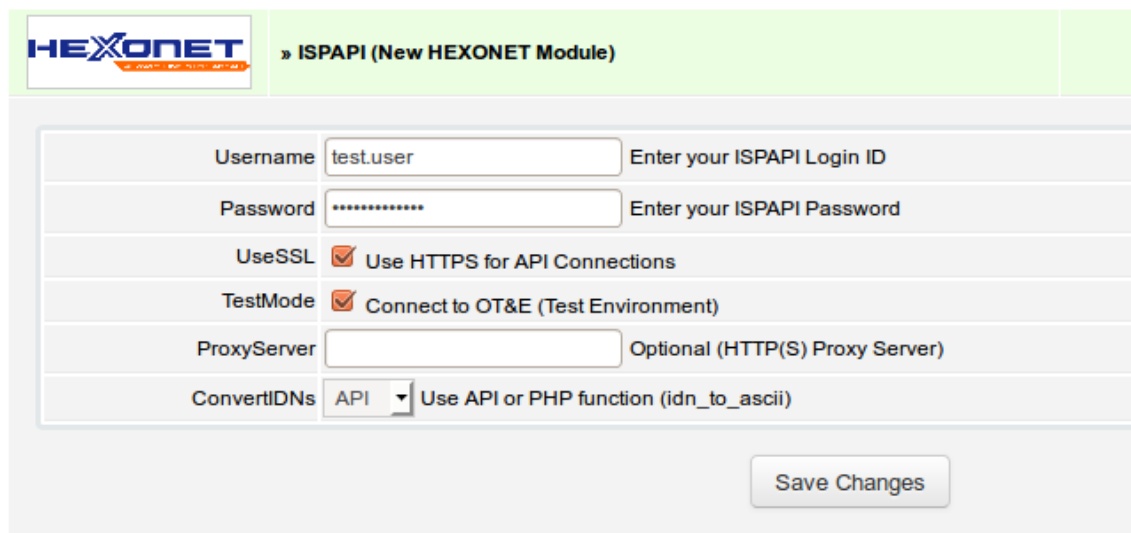
Reseller Credentials

Within the WHMCS Admin area, go to

Setup => **Products/Services** => **Domain Registrars**

Activate the new registrar **ISPAPI (New HEXONET Module)**, and enter your Hexonet credentials. You can create your account here: <https://www.hexonet.net/sign-up>

If you want to use the “TestMode”, you have to create your OTE account here: <https://www.hexonet.net/signup-ote>



The screenshot shows the configuration interface for the ISPAPI (New HEXONET Module) in WHMCS. The form is titled "ISPAPI (New HEXONET Module)" and includes the following fields and options:

- Username:** A text input field containing "test.user" with the label "Enter your ISPAPI Login ID".
- Password:** A password input field with masked characters "*****" and the label "Enter your ISPAPI Password".
- UseSSL:** A checkbox labeled "Use HTTPS for API Connections" which is checked.
- TestMode:** A checkbox labeled "Connect to OT&E (Test Environment)" which is checked.
- ProxyServer:** A text input field with the label "Optional (HTTP(S) Proxy Server)".
- ConvertIDNs:** A dropdown menu set to "API" with the label "Use API or PHP function (idn_to_ascii)".

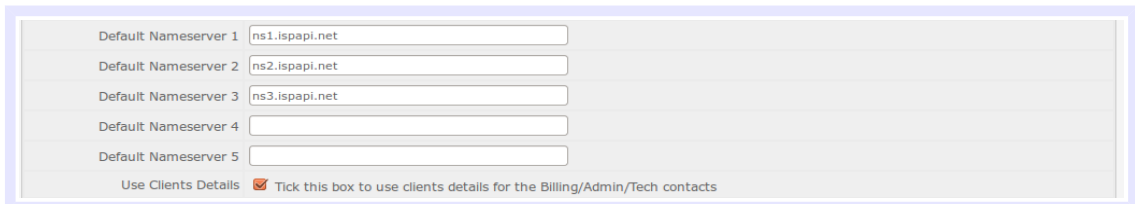
A "Save Changes" button is located at the bottom right of the form.

Make sure that the account you are using is set to renewalmode AUTOEXPIRE in your Control Panel, otherwise domains might be renewed without being paid for by the customer

Nameservers

If you want to use DNS/URL/Emailforwarding, domains must resolve to the ISPAPI nameserver cluster (**ns1.ispapi.net**, **ns2.ispapi.net**, **ns3.ispapi.net**).

You might want to enter them in **Setup** => **General Settings** => **Domains** as **Default Nameservers** for your customers:



Default Nameserver 1	ns1.ispapi.net
Default Nameserver 2	ns2.ispapi.net
Default Nameserver 3	ns3.ispapi.net
Default Nameserver 4	
Default Nameserver 5	

Use Clients Details ☒ Tick this box to use clients details for the Billing/Admin/Tech contacts

You can also create your own nameserver hostnames and use them, as long as they are registered and resolve to the correct IP addresses.

Cronjob configuration

In order to have your WHMCS always synchronized with our systems, you should make sure to run the WHMCS Domain Sync at least once per day:

```
php -q $YOUR_WHMCS_ROOT/crons/domainsync.php
```

More information about the Domain Sync can be found here:

http://docs.whmcs.com/Domains_Tab#Domain_Sync_Enabled

Hexonet widget activation

If you want to keep your WHMCS modules up to date, you should activate the Hexonet widget which will display a message with a download link as soon as a new version is available.

To activate it, go in **Setup** => **Staff Management** => **Administrator Roles** select your administrator role and activate the “Hexonet” widget.



Additional domain fields

The registration of some extension requires sometimes additional domain fields. (e.g. Legal Type and CIRA Agreement for .CA domain)

In order to provide this additional fields on the registration page and map them with our module you have to extend the **\$additionaldomainfields** array in the **includes/additionaldomainfields.php** file.

Our module supports the following new config fields: **Ispapi-Name**, **Ispapi-Options**, **Ispapi-Replacements**, **Ispapi-IgnoreForCountries** and **Ispapi-Eval**.

- **Ispapi-Name** (string): Name of the parameter in Ispapi
- **Ispapi-Options** (string): Comma-separated list of parameter values, the order must match the ones in **Options**. The mapping of values from **Options** to **Ispapi-Options** is stored in **Ispapi-Replacements**
- **Ispapi-Replacements** (array): If the parameter value is a valid key of this array, it gets replaced by the respective value. Indirect use via Ispapi-Options is preferred, direct use makes sense to map older values for backwards compatibility.
- **Ispapi-Eval** (string): PHP code to execute, the parameter value after all replacements is stored in \$value

In our module you will find a file named "additionaldomainfields.php" containing a lot of preconfigured extensions running with our systems. (updated on a regular basis) This file will assist you configuring the WHMCS additionaldomainfields.php file located under: **includes/additionaldomainfields.php**.

Examples:

```
// Maps the "Application Purpose" value on the Ispapi parameter
// "X-US-NEXUS-APPPURPOSE".
// e.g. for "Government purposes": X-US-NEXUS-APPPURPOSE=P5
$additionaldomainfields[".us"][] = array(
    "Name" => "Application Purpose",
    "Type" => "dropdown",
    "Ispapi-Name" => "X-US-NEXUS-APPPURPOSE",
    "Ispapi-Options" => ",P1,P2,P3,P4,P5",
    "Options" => ",P1 - Business use for profit,P2 - Non-
profit business; club; association; religious organization; etc.,P3
- Personal Use,P4 - Educational purposes,P5 - Government purposes",
    "Default" => "",
    "Required" => true
);
```

```
// Maps the "Nexus Country" value on the Ispapi parameter
// "X-US-NEXUS-VALIDATOR", converting to uppercase.
// e.g. for "de": X-US-NEXUS-VALIDATOR=DE
$additionaldomainfields[".us"][] = array(
    "Name" => "Nexus Country",
    "Type" => "text",
    "Description" => "<div>Specify the two-letter country-code of
the registrant (if Nexus Category is either C31 or C32).</div>",
    "Size" => "2",
    "Default" => "",
    "Required" => false,
    "Ispapi-Name" => "X-US-NEXUS-VALIDATOR",
    "Ispapi-Eval" => '$value = strtoupper($value);'
);
```

```
// Custom local presence service for .it
$my_local_presence = array(
    "FIRSTNAME" => "John",
    "LASTNAME" => "Doe",
    "ORGANIZATION" => "Local Presence",
    "STREET" => "Via Presence 123",
    "CITY" => "Milano",
    "STATE" => "MI",
    "ZIP" => "12345",
    "COUNTRY" => "IT",
    "PHONE" => "+39.123456",
    "EMAIL" => 'info@localpresence.it'
);

$additionaldomainfields[".it"][] = array(
    "Name" => "Local Presence",
    "Type" => "dropdown",
    "Options" => ",Use Local Presence Service",
    "Default" => "",
    "Required" => false,
    "Ispapi-Options" => "0,1",
    "Ispapi-Eval" => 'if ( $value ) {
        $command["OWNERCONTACT0"] = $my_local_presence;
        $command["ADMINCONTACT0"] = $my_local_presence;
    }'
);
```

UTF-8 Support

For WHMCS < 5, if the system charset for WHMCS is set to utf8, the ISPAPI module will enable some workarounds to support UTF-8 for domain registrations, transfers and contact updates.

For WHMCS >= 5, it uses the original unmodified parameters as provided by the system.

In any case, the module should be able to handle umlauts and special characters in whois contacts, as long as the respective registry supports it.

For registries that don't support umlauts, some characters will be mapped automatically, e.g. é to e, ö to oe and so on.

Domain Name WHOIS Privacy

The registrar module fully supports the WHOIS Privacy service WHOISTRUSTEE.com:



Support for WHOIS Privacy (aka ID Protection in WHMCS) been integrated in two ways:

Support for the new WHMCS 'toggle ID protection' functionality

Whenever the ID protection flag gets enabled or disabled in the WHMCS Admin area, the module synchronizes the new protection status to the domain.

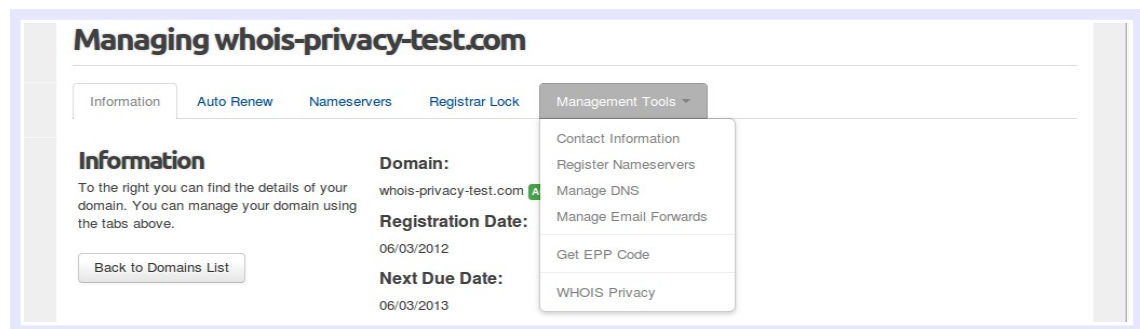
This functionality is compatible to the WHMCS API “domaintoggleidprotect” call.

If the ID Protection flag gets disabled in the Admin area, clients will not be able to re-enable WHOIS Privacy themselves, but it can only be re-enabled by an admin!

Client area WHOIS Privacy management

The registrar module registers a new client area function, which will only be visible when using a template thats compatible to the new WHMCS 5 default one.

In the **Management Tools** section of a domain that got ID Protection enabled, there's a new item called **WHOIS Privacy**.



Using that new function, a client can verify the current protection status, and enable or disable it automatically.

The new WHOIS Privacy page looks as follows (protection is enabled in example):

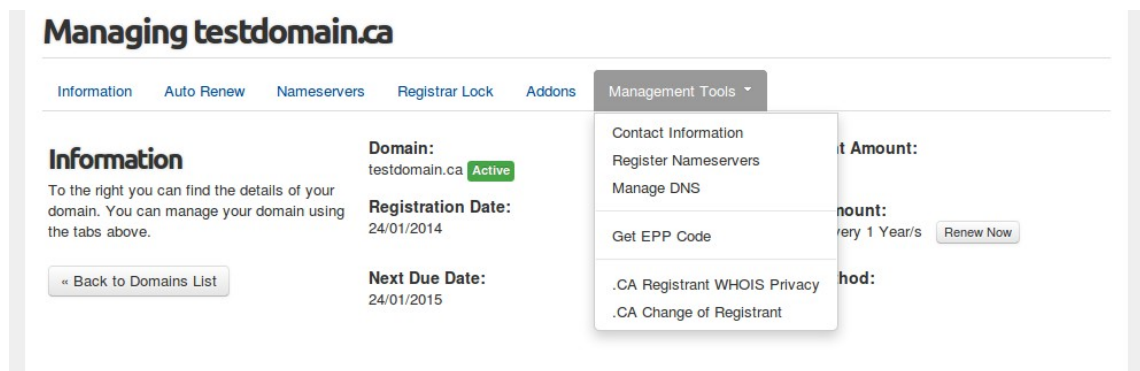
The screenshot displays the WHMCS interface for the WHOIS Privacy page. At the top, the WHMCS logo is visible, followed by a navigation bar with links: Home, Services, Domains, Billing, Support, Open Ticket, and Affiliates. A user greeting "Hello, Jens!" is on the right. The main heading reads "WHOIS TRUSTEE" and "whois-privacy-test.com". A blue banner states "Your WHOIS information is currently protected!". Below this, a paragraph explains the importance of WHOIS privacy, noting that domain registrations require contact information for public display, which can be risky. The page compares "Unprotected Public WHOIS" (where contact details like "Example Org Ltd." and "John Doe" are "VISIBLE TO THE PUBLIC") with "WHOIS TRUSTEE Protected" (where the registrant is "MYDOMAIN.COM" and contact info is redacted). A "WHOIS Privacy Status:" section shows "Enabled - WHOIS is protected" with a "Disable WHOIS Privacy" button. A "Back" button is at the bottom left. The footer includes a language selector set to "English" and a copyright notice: "Copyright © 2011 HEXONET - WHMCS DEMO. All Rights Reserved." The page is powered by WHMCompleteSolution.

Special features for .CA domain names

The registrar module supports 2 more features for .CA domain names:

- .CA Registrant Whois Privacy
- .CA Change of Registrant

You will find these new features under “Management Tools”.



.CA Registrant WHOIS Privacy

The new WHOIS Privacy page for .CA domain names looks as follows (protection is enabled in example):

WHMCS

Home Services Domains Billing Support Open Ticket Hello, Anthony!

WHOIS Privacy - testdomain.ca

Your WHOIS information is currently protected!

.CA Registrant WHOIS Privacy: The Canadian Internet Registration Authority ("CIRA"), is committed to protecting the privacy of personal information in the course of its operation and administration of the Canadian country code top-level domain name (the "Registry").

Registrants with the following Canadian Presence Requirement (CPR) categories are considered to be Individuals:

- **CCT** - Canadian citizens
- **RES** - permanent residents
- **LGR** - legal representatives
- **ABO** - aboriginal peoples

All other CPR categories are considered to be non-individual Registrants. A non-individual is not permitted to change their WHOIS privacy settings.

The current registrant CPR is **CCT**, therefore a change of the WHOIS privacy setting is permitted.

WHOIS Privacy Status:
Enabled - WHOIS is protected

[Disable WHOIS Privacy](#)

[« Back](#)


Powered by [WHMCompleteSolution](#)

Language: English

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.CA Change of Registrant

The new Change of Registrant page for .CA domain names looks as follows:



Home Services Domains Billing Support Open Ticket Hello, Anthony!

Change of Registrant - testdomain.ca

First Name

John

Last Name

Doe

Company Name

MYCOMPANY

Address

#108 - 6422 114nd Street

Address 2

City

Surrey, Whiterock

State

BC

Postcode

V3W 1J8

Country

CA

Phone

+1.234567891

Fax

Email

Legal Type

Canadian Citizen

Legal type of registrant contact

CIRA Agreement

☐

Tick to confirm you agree to the CIRA Registration Agreement shown below

You have read, understood and agree to the terms and conditions of the Registrant Agreement, and that CIRA may, from time to time and at its discretion, amend any or all of the terms and conditions of the Registrant Agreement, as CIRA deems appropriate, by posting a notice of the changes on the CIRA website and by sending a notice of any material changes to Registrant. You meet all the requirements of the Registrant Agreement to be a Registrant, to apply for the registration of a Domain Name Registration, and to hold and maintain a Domain Name Registration, including without limitation CIRA's Canadian Presence Requirements for Registrants, at: www.cira.ca/assets/Documents/Legal/Registrants/CPR.pdf. CIRA will collect, use and disclose your personal information, as set out in CIRA's Privacy Policy, at: www.cira.ca/assets/Documents/Legal/Registrants/privacy.pdf

WHOIS Opt-out

☐

Tick to hide your contact information in CIRA WHOIS (only available to individuals)

Save Changes

« Back

Powered by WHMCompleteSolution

Language: English

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Ispapi Domain Import Addon

This package includes an domain importer addon. You can use it to automatically import domain names from your Hexonet account into your WHMCS.

To activate it, go in **Setup** => **Addon Modules** and activate the **Ispapi Domain Import**.

Once done, you will find a new menu item called Ispapi Domain Import under **Addons**

Addons

Ispapi Domain Import

Import Domains from ISPAPI Account

ISPAPI Test Account: **test.user** - **Connected!**

Query Domainlist

Domain:

Pull Domainlist

Import Domains

Payment Gateway	Bank Transfer
Currency	USD
Domains	<div></div>

Import Domains

Just enter the list of domains into the **Domains** field, or pull the list from your account, select a payment gateway, a default currency for new client accounts, and press **Import Domains**.

For each domain, the tool will create a new WHMCS client account using the selected currency and the registrant info, if there's no existing WHMCS client account using the same email address.

Also it will use the current renewal prices as the recurring amounts of imported domain names, using the respective client account currency.