

ISPAPI Registrar Module

Domain Management using WHMCS & HEXONET

Version 1.0.44 (or later version)

October 14, 2016



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Table of Contents

Supported Features	4
Installation	
Configuration	7
Reseller Credentials	
Nameservers	
Cronjob configuration	8
Hexonet widget activation	
Additional domain fields	
UTF-8 Support	12
Domain Name WHOIS Privacy	
Support for the new WHMCS 'toggle ID protection' functionality	13
Client area WHOIS Privacy management	
Special features	
.CA Registrant WHOIS Privacy	
.CA Change of Registrant	
.IT Change of Registrant	
.SWISS Registrations	
SRV Records support	
Ispapi Domain Import Addon	

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 / .IT 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 .SWISS registrations
- Support for SRV records

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

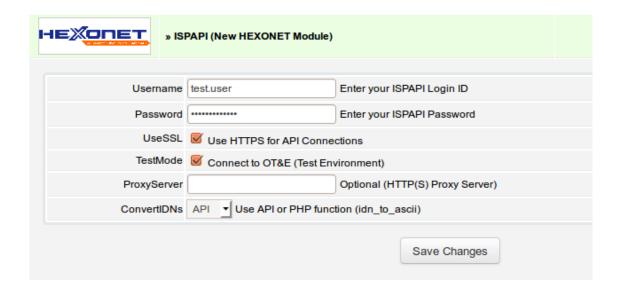
Reseller Credentials

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



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:



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.

Prior to WHMCS 7.0, this file was located at /includes/additionaldomainfields.php

From WHMCS 7.0 on, to add new additional domains fields, create a new file named additional fields.php within the /resources/domains/ directory.

Our module supports the following 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_sample.php" containing a lot of preconfigured extensions running with our systems. (updated on a regular basis) This file will assist you configuring the WHMCS additional domain fields.

Examples:



```
);
```

```
// 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@localprecense.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["OWNERCONTACTO"] = $my local presence;
           $command["ADMINCONTACTO"] = $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.

WHMCS >= 6 decided to strip the umlauts in domain names and contacts. This module is able to fix this issue and will keep the umlauts.

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.

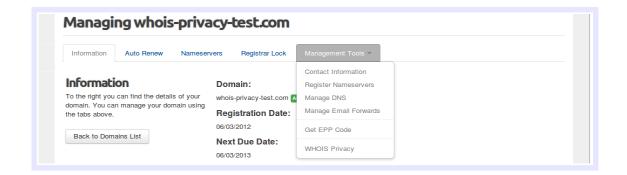
This functionality is compatible to the WHMCS API "domaintoggleidprotect" call.

If the ID Protection flag gets disabled in the Admin area, clients will not be able to re-renable 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.

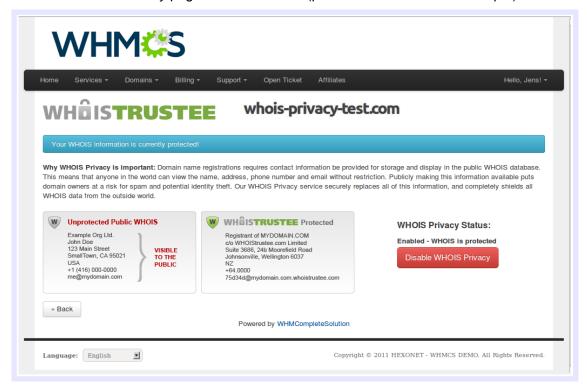
In the **Management Tools** section of a domain that got ID Protection enabled, there's a new item called **WHOIS Privacy**.



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):

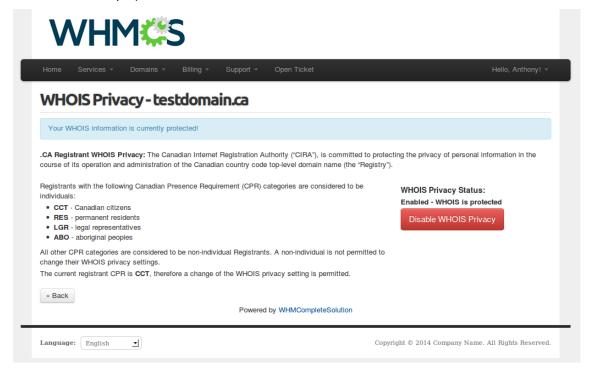




Special features

.CA Registrant WHOIS Privacy

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



.CA Change of Registrant

The Change of Registrant page for .CA domain names is available under the Management Tools of a .CA domain.

.IT Change of Registrant

.IT Change of Registrant requires a special procedure called TRADE. This function is available under the Management Tools of a .IT domain.

.SWISS Registrations

Our registrar module is now supporting .SWISS registrations. (This function requires WHMCS 6.x)

.SWISS domain names are different and cannot be registered with the normal **AddDomain** command.

In order to apply for a .SWISS domain name it is always required to request a domain application with the **AddDomainApplication** command and to provide the class 'GOLIVE'.

Moreover .SWISS registrations require 2 additional domain fields. Please add the following code at the end of the **includes/additionaldomainfields.php** file:

This function uses HOOKS and in order to activate these hooks you have to go to:

Setup => **Products/Services** => **Domain registrars**, click the "Configure" button in the ISPAPI module line and finally click "Save Changes".

Example of a .SWISS registration:

Customer register a .SWISS domain (like he will register a normal domain)



- Once the invoice paid, the domain application will be sent
- The domain will be set to **PENDING** until the application process has been completed
- A cron job is checking the application status once a day
 - If the application is **successful** the domain will be set to **ACTIVE** and the customer will be able to manage it.
 - If the application is **failed**, the domain will be set to **CANCELLED** and you will have to **refund the customer manually**.

In order to work automatically the WHMCS Cron job has to be configured properly. Please have a look at this page: http://docs.whmcs.com/Crons

Further information regarding .SWISS is available in our wiki: https://wiki.hexonet.net/wiki/SWISS



SRV Records support

WHMCS doesn't allow SRV records. Our module makes it possible!

In order to activate that your have to update the clientareadomaindns.tpl file in your template directory.

In this file you will find 2 <select> tags. In the first you will have to add the following code:

```
<option value="SRV"{if $dnsrecord.type eq "SRV"}
selected="selected"{/if}>SRV</option>
```

In the second you should add:

```
<option value="SRV">SRV</option>
```

Between the 2 tags there is an if statement, here you have to replace

```
{if $dnsrecord.type eq "MX"}
with
{if $dnsrecord.type eq "MX" || $dnsrecord.type eq "SRV"}
```

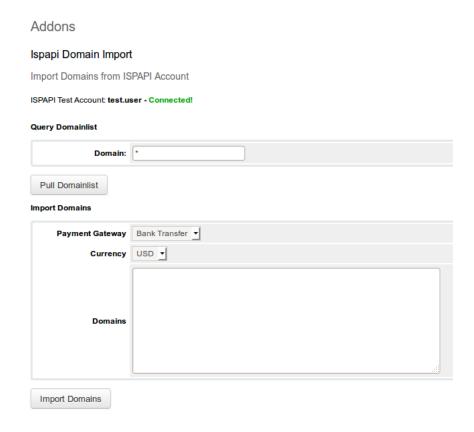
Now you are ready to support SRV records!

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



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.