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SE Registry

example code

# Install Perl Example code v3

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## Perl example code v3 Document control

### Document information and security

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# 1 Introduction

## 1.1 This document

This document gives a short overview of the perl example code, how to install it and how to run the example code. We also covers the epp\_client\_se.pl program to run epp commands form the command line.

## 1.2 Font

In this document we use the following fonts:

- Small bold style** Used for library structure, file names and in- and out puts.
- BLOCK LETTERS** Computer names are always written with block letters.
- Courier** Commands and Responses are always written in Courier.

## 1.3 About .SE

.SE (The Internet Infrastructure Foundation) is responsible for the Internet top-level domain for Sweden. As the central registry, .SE manages domain name registrations and the administrative and technical operation of the national domain name system for .SE.

.SE is an independent non-profit organisation, supporting the positive development of the Internet in Sweden. Through .SE's Internet Fund, the Foundation annually donates means to projects supporting the development and utilisation of the Internet.

[For more information, please see: http://www.iis.se/english/index.shtml?lang=en](http://www.iis.se/english/index.shtml?lang=en)

## 2 Perl EPP Library – Net::DRI

### 2.1 Origin

Net::DRI is a general library for talking to different Provisioning system. Its not only doing EPP, but can handle a wide variety of protocols to different registry.

It can be found at <http://search.cpan.org/dist/Net-DRI/> where you can download the latest verion – currently 0.96.

We have updated the code to handle .SE EPP Server V3 and to be able to use client certificates.

### 2.2 Install

Net::DRI requires some additional modules. The README file describes exactly what you need. The following libraries was required to install on a RedHat/Centos System:

- libxml2
- libxml2-devel
- libidn
- libidn-devel
- expat-devel

It also required some additional CPAN Modules:

- IO::Socket::SSL
- Test::LongString
- Net::LibIDN
- XML::Parser
- XML::Twig
- Error

The easiest way to install it is to use CPAN to install the standard Net::DRI version, and then install the patched version on top of that.

Both a patched compleat install and a patchfiles is available at the iis web-place: <http://www.iis.se/en/domaner/bli-registrar/epp>

## 2.3 Client Certificates

As of v3 of the .SE EPP server you are required to use a client certificate when connecting to the server.

Information about the different certificates, where you can acquire them is on the iis web page - <http://www.iis.se/en/domaner/bli-registrar/epp>

You also need to use the epp test web, login and upload the public part of your certificate so that the epp server can verify you. The login to the epp test web is <https://epptestwebv3.iis.se>.

The perl example code requires a pem file to be use. We suggest you put in in the cert directory.

## 3 Example code

### 3.1 msg.pl

The example code **msg.pl** connects to the EPP server and checks the message queue. If there is messages in the queue it will issue a poll message and get the first message back and display the information about it.

It will not acknowledge the message so the message will stay in the message queue and the program can be run multiple times to check the connections and login.

### 3.2 Running msg.pl

The command line to run **msg.pl** is:

```
./msg.pl -C epp_user -W epp_pwd -F cert_path -w cert_pwd
```

where

*-C epp\_user* is the user name for login in to the epp server

*-W epp\_pwd* is the epp password

*-F cert\_path* is the path to the pem certificate file

*-w cert\_pwd* is the password for the pem file

### 3.3 Example run

```
./msg.pl -C ete## -W 'xxXXxx' -F cert/verisign.pem -w  
'yyYYyy'
```

```
messages in queue: 3
```

```
message: $VAR1 = {  
    'object_type' => 'contact',  
    'lang' => 'en',  
    'action' => 'info',  
    'content' => 'Transfer yask-12.se',  
    'qdate' => '2010-12-21T15:13:01',  
    'object_id' => 'bjrnpe5629-00001',  
    'id' => 'bjrnpe5629-00001'  
};
```

## 4 epp\_client\_se.pl

The **eg** directory contain a example command line client, **epp\_client\_se.pl**. This can be use to test commands to the epp server.

It has been modified to accept command line parameters for client certificate and passwords.

### 4.1 Common connection parameters

- -C test EPP UserID
- -W xxXXxx EPP Password
- -F cert\_path Path to pem certificate file
- -w cert\_pwd Password to perm file
- -L Use SSL
- -f test.log Log to file

### 4.2 Common parameter

- -o xxx Object (host, domain, contact, message)
- -c xxx Command (create, info, check ...)
- -p xxx EPP parameter argument string

### 4.3 epp\_client\_se.pl run

```
epp_client_se.pl -C ete## -W 'xxXXxx' -F path -w 'yyYYyy' -L -o domain  
-c info -p "%p=(name=>'yask.se')"
```

```
*** Executing EPP command: domain . info ***
```

```
result_code      : 1000  
native_code      : 1000  
result_message   : Command completed successfully  
language         : en
```

```
action           : info  
exist            : 1  
exDate           : 2011-12-08T00:00:00
```

```
--- Auth info ---
```

```
name             : yask.se  
IDN-name         : yask.se  
roid             : DOMAIN-1  
exDate           : 2011-12-08T00:00:00  
crDate           : 2010-12-08T00:00:00  
upDate           : 2010-12-08T00:00:00
```

```
trDate      : -
delDate     : -
deactDate   : -
clID        : Yask_1
crID        : Yask_1
upID        : Yask_1
--- Name servers ---
ns count    : 2
ns name     : ns2.yask.se
ns name     : ns1.yask.se
--- Contacts ---
registrant  : jansal1012-0001
--- Status summary ---
is_active   : 1
is_published : 1
is_pending  : -
is_linked   : -
can_update  : 1
can_transfer : 1
can_delete  : 1
can_renew   : 1
--- Flag details ---
flag        : ok
```

SUCCESS

Time used: 2secs

## 4.4 epp\_client\_se.pl manual

You can get a manual for the epp\_client\_se.pl command by running **perldoc** on the file.

```
perldoc epp_client_se.pl
```

```
EPP_CLIENT_SE(1)      User Contributed Perl Documentation      EPP_CLIENT_SE(1)
```

```
NAME
```

```
    epp_client_se.pl - A command line client program using Net::DRI towards the .SE  
    EPP registry.
```

```
DESCRIPTION
```

```
    The client supports creation and maintenance of host, contact and domain objects  
    for .SE. It supports transfer operations,
```