

ICTCore:: Developer Guide

ICTCore PHP & packages requirement:

PHP Version 5.4 require with the following packages of PHP

php php-cli php-curl php-mcrypt php-mbstring php-xmlrpc php-process php-mysql php-xml php-pear php-pear-Pager php-pear-SOAP php-pear-HTTP-Request php-pecl-imagick php-pecl-json php-pecl-libevent

Others dependencies

coreutils acl sudo tzdata ntp cronie dos2unix shadow-utils

ICTCore is backend library for voice, fax, sms and email related services, it provide API interface to interact with other applications which are following:

freeswitch freeswitch-config-vanilla freeswitch-lua freeswitch-application-curl
freeswitch-sounds-en-us-callie-8000 freeswitch-asr tts-flite ictcore-freeswitch
ictcore-gateway-voice ictcore-gateway-fax

ICTCore APIs flows by using module

Here is describe that how it data will flow is following:

API Endpoint: Domain / web url corresponding address for ictcore/wwwroot installation directory. It will initialize the core library.

Example of an API (get a contact using id)

@url GET /contacts/\$contact id

When the above API url is called (ictcore/wwwroot/core/Api/ContactApi.php) this file will run and read method will called of **ContactApi** class with **ID** parameter.

Check if Role has permission

When ever user land on any method of class, at very first there will an mothod called name **authorize** with permission name parameter, it will check if Logged-in user has permission to done this task or not.

```
$this->_authorize('contact_read');
```

Use Module:

After check authorize permission, There is module class called with **ID** parameter, The **ID** parameter directly pass to **Module's construct** method.

Module description

In module class, There are some nessory information which need to be given are below:

- Table Name
- Primary key
- Table Fields

After giving **ID** parameter, Module with act accordingly and return data in API response.

ICTCore::Programs and Transmissions (Email to Fax)

There are programs name which will use for email to fax

- Email Recevied
- Fax send
- Transmission

In email to fax, When a email is sent for fax, At very first ICTCore create a **Program** named with the name of an **Application** named **email-recevied** . After save/create program It will also initialize the next task according to the reference. Means It will automatically create next transmission.

Direction

At this moment transmission direction will be **Inbound**, because email is received.

Transmissions

Scheduled Transmission

When a new transmission is trigger It will check that the current transmission is schedule or not, If It is scheduled, It will save in **Database** using transmission module with the provided scheduled data and exit.

No Scheduled/Instant Transmission

If transmission was not schedule, It will create new **Program** named **send-fax**.

Transmission Send

When the transmission is being send, It will also save the **retry** and **last_run** for the record.

Direction

At this moment transmission direction will be **Outbound**. Because fax is going to be sent

Note:

Whenever a new program is created, It will also trigger the transmission.

Applications

There is different type of applications which names are following

- Email to Fax
- Fax to Email
- Send Fax
- Send Email

Program

Program class is use to Manage **Applications**, Means When / Which **Applications** will be process or trigger. **Programs** also help to store and manage the **Application** data.

Services

ICTCore use 4 types of services are following before trigger/send any Transmission.

- Email
- Fax
- Sms
- Voice

These service classis are located in (ictcore/wwwroot/core/Services)

These services will automatically load according to **Application** name, e.g when email send or receive **Email** service will load with It's **Providers** config / Information.

Providers

ICTCore use the following types of providers.

- Emailcmd (for use receive send & receive email from server)
- HTTP (For SMS)
- Sip (For Voice)
- Smpp
- Smtpt

These service classis are located in (ictcore/wwwroot/core/Providers)

Gateway

After get the config/information from Providers, ICTCore handover the spool to relevant gateway.

These gateway classis are located in (ictcore/wwwroot/core/Gateway)