

# Jazzradio API : Documentation

## Description :

An API (Application Programming Interface) is a standardized set of classes and methods for interacting with a web service such as ours, through any programming language. This is a RESTful API, that allows you to manipulate Infoconcert.com's datas to integrate them into your own application or website. You can use our API to display, for example, the concerts of the day in your department, display a list of concerts of an artist, display the upcoming festivals of the week, etc.

## Utilisation :

- create a variable Public/Private Keys
- create a variable with Request to be submitted ex : "news"
- Generate content verification signature
- Finally submit to api end point

example in PHP : <http://www.jazzradio.fr/api-docs/#RootofAPI>

## Exemple for ios ->

```

// This is the fonction which use HMAC authentication
- (NSURLResponse*)requesthttp {

    //we add the URL in the string urlApi :
    NSString *urlApi = @"http://jazzradio.fr/api/";
    NSURL *url = [NSURL URLWithString:urlApi];
    //Your Public/Private Keys :
    NSString *publicKey = @"xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx";
    NSString *privateKey = @"xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx";
    // Request to be submitted :
    NSString *request = @"news";

    double timeStamp = [[NSDate date] timeIntervalSince1970];
    NSString *Stime = [NSString stringWithFormat:@"%f", timeStamp];

    // Generate content verification signature
    const char *cKey = [privateKey cStringUsingEncoding:NSUTF8StringEncoding];
    const char *cRequest = [request cStringUsingEncoding:NSUTF8StringEncoding];
    unsigned char cHMAC[CC_SHA1_DIGEST_LENGTH];
    CCHmac(kCCHmacAlgSHA1, cKey, strlen(cKey), cRequest, strlen(cRequest), cHMAC);
    NSData *HMAC = [[NSData alloc] initWithBytes:cHMAC length:sizeof(cHMAC)];
    NSString *sig = [HMAC
base64EncodedStringWithOptions:NSDataBase64Encoding64CharacterLineLength];

    // Request
    NSMutableURLRequest *MutableURLRequest = [NSMutableURLRequest requestWithURL:url];
    [MutableURLRequest setHTTPMethod:@"GET"];
    [MutableURLRequest setValue:publicKey forHTTPHeaderField:@"X-Public-Key"];
    [MutableURLRequest setValue:sig forHTTPHeaderField:@"X-Request-Hash"];
    [MutableURLRequest setValue:Stime forHTTPHeaderField:@"X-Request-Timestamp"];
    [MutableURLRequest setValue:@"application/json;charset=UTF-8" forHTTPHeaderField:@"content-
type"];

    NSError *Error = nil;
    NSURLResponse *Answer = nil;

    // Show result
    [NSURLConnection sendSynchronousRequest:MutableURLRequest
                    returningResponse:&Answer error:&Error];
    if (Error != NULL)
    {
        NSLog(@"error : %@", Error);
    }
    else
    {
        NSLog(@"%@", Answer);
    }
    return Answer;
}

```