```
1
     <?php
 2
 3
 4
    /**
 5
     * Rating Billing and Routing
 6
 7
     * Three main classes in this package :
 8
     * <0l>
 9
     * e164_call extended by call_ttl.
      * call ttl extended by call routes.
10
     * call_routes called by the invite.php (a simple XML-RPC server invoked by a
11
     remote client).
      * 
12
13
14
      * Those classes are used by the xml servers (invite.php, invite_stop.php) to calculate
     and produce:
15
     * <0l>
16
17
     * The Total Time to Live.
     * The Route(s) a call can/should take
18
      * Finally, calculate call costs and profits for Digifonica, Digifonica partners
19
     and End users (Partner clients)
      * 
20
21
22
      * @package Digifonica_RBR
23
      * @author Fuad A.
24
     * @copyright Digifonica
25
26
     */
27
28
     /**
29
     * needed for Voice Email Servers and supernode mapping
30
31
     */
32
     require_once("config.php");
33
34
35
36
         /**
37
          * Number and call type reconstructor.
38
39
          * e164 is a class specific to the digifonica model, and is used to generate a
     properly formated e164 number<br>
40
          st according to a caller profile. It goes further to establishing criteria about
     the callee and its type.<br>
41
          * This is a caller-callee reconstructor, no matter where the person resides in the
     world, s/he can dial local, <br>
          * national or internationa number the way s/he is used to.<br>
42
43
          * Using a caller profile, we identify if a callee (number being called) is local,
     national or internal call to <br>
          * the caller and not to the system.<br>
44
45
                                                                        Voip-Pal Ex. 2014
46
          * Three main classes in this package :
                                                                        IPR2016-01201
47
```



```
50
           * call_routes called by the invite.php (a simple XML-RPC server invoked by a
      remote client).
 51
           * 
 52
           *
 53
           * Those classes are used by the xml servers (invite.php, invite_stop.php) to
      calculate and produce:
 54
 55
           * <01>
 56
           * The Total Time to Live.
 57
           * The Route(s) a call can/should take
 58
           * Finally, calculate call costs and profits for Digifonica, Digifonica
      partners and End users (Partner clients)
 59
           * 
 60
           *
 61
           * @package Digifonica_RBR
 62
           * @author Fuad A.
 63
           * @copyright Digifonica
 64
           */
 65
      class e164_call {
 66
 67
 68
 69
          /**
 70
           * This is an array containing all possible call errors
 71
 72
           * @global Array $errors
 73
           *
 74
           */
 75
          private $errors = array(
 76
              1=> "1:CALLER PROFILE NOT FOUND",
              2=> "2:MALFORMED CALLEE, OR NETWORK CALLEE DOES NOT EXIST",
 77
 78
              3=> "3:WRONG NUMBER DIALED",
 79
              4=> "4:WRONG INTERNATIONAL NUMBER",
 80
              5=> "5:WRONG NUMBER LENGTH",
 81
              6=> "6:WRONG NUMBER LENGTH, LOCAL AREACODE MUST BE DIALED",
              7=> "7:WRONG NATIONAL NUMBER",
 82
 83
              8=> "8:CALLED A DID WITH NO MAPPING"
          );
 84
 85
 86
          /**
 87
           * This is an array containg all possible call types.
 88
           *
 89
           * @var Array
 90
           */
 91
          private $call_type = array(
              1=> "INTERNATIONAL",
 92
 93
              2=> "NATIONAL",
              3=> "LOCAL",
 94
              4=> "NETWORK",
 95
              5=> "FAIL",
 96
              6=> "LOCAL, NATIONAL STYLE",
 97
              7=> "NETWORK, CROSS DOMAIN"
 98
 99
          );
100
```



```
103
          */
104
          /**
105
106
           * Holds Original caller
107
108
           * @var String
109
           */
110
          public $original_caller;
111
           * Holds original caller domain
112
113
114
           * @var String
115
           */
116
          protected $original_caller_domain;
117
           * Original caller idd
118
119
120
           * @var String
121
           */
122
          protected $original_caller_idd;
123
          /**
124
           * Original caller ndd
125
126
           * @var String
127
128
          protected $original_caller_ndd;
129
130
           * Holds Original caller areacode.
131
132
           * @var String
133
           */
134
          protected $original_caller_areacode;
135
136
           * Holds Original caller country code.
137
138
           * @var String
139
          protected $original_caller_countrycode;
140
141
          /**
142
           * Holds Original flag if the caller had overlapping numbers
143
144
           * @var Boolean
145
146
          protected $original_caller_has_overlapping;
147
          /**
148
           * Holds Original caller area codes (Overlapping)
149
150
           * @var Array
151
           */
152
          protected $original_caller_areacodes=array();
153
154
          /**
155
           * holds the caller number (Could be a digifonica number or a PSTN number, this is
      not set during an incoming PSTN call or a call from another super node.
```

```
call e164.class.php
```

```
158
           */
159
          public $caller;
160
           * Holds the caller domain. (not set in the case of incoming call from PSTN or
161
      another supernode)
162
163
           * @var String
164
           */
165
          protected $caller_domain;
166
           * Contains callee domain, can be empty when a PSTN call is the callee, if callee
167
      domain is not present, class will atte,pt to guess it.
168
169
           * @var String
170
           */
          protected $callee_domain;
171
172
           * The caller Internationa Dialing Digit (IDD) extracted from the caller profile,
173
      to identify an international call. this can have multiple leading Zeroes( treating like
      string)
174
175
           * @var String
176
           */
177
          protected $caller_idd;
178
179
           * National Dialing Digit (NDD) for the user, this identify when a user is trying
      to make a National call. (can have leading zero, so treating it like a string)
180
181
           * @var String
182
           */
183
          protected $caller_ndd;
184
185
           * the caller area code, this is used to determine if the caller is making a local
      call and to find out overlapping area codes if any.
186
187
           * @var integer
188
          protected $caller_areacode;
189
190
          /**
           * Caller country code, used to determine if a user is making a national call.
191
192
193
           * @var Integer
194
           */
195
          protected $caller_countrycode;
196
197
           * Flag to identify that a user has overlapping area codes
198
           * Example: Vancouver has 604 and 778 and both can call each other for free, so a
      call between them is concidered local call.
199
200
           * @var Boolean
201
          protected $caller has overlapping;
202
203
204
           * This holds all area codes for the user, including overlapping area codes.
```



```
call_e164.class.php
```

```
207
           */
208
          protected $caller_areacodes;
209
210
          /**
211
           * Flag that the caller has been set.
212
213
           * @var Boolean
214
           */
215
          protected $caller_is_set;
216
          /**
           * this is a flag, used to store original callee only once, original callee must be
217
      stored in case of multiple call forwards.
218
219
           * @var Boolean
220
           */
221
          protected $callee_is_set;
222
223
          /*
224
          callee variables
225
          */
226
227
          /**
228
           * Holds the original callee number
229
230
           * @var String
231
           */
232
          protected $original_callee;
233
234
           * Original callee domain
235
236
           * @var String
237
238
          protected $original_callee_domain;
239
          /**
240
           * Stores Callee number
241
242
           * @var string
243
           */
244
          protected $callee;
245
246
           * This is the actual value of the call type, the textual representation is in the
      array $call_type
247
248
           * @var integer
249
250
          protected $callee_type; //look up for $call_type
251
          /**
252
           * Stores callee data
253
           * store as an associative array as follows:
254
           * <01>
255
           * ml_id
           * ml_dialing_code
256
257
           * country_code
258
           * ISO_3166_1_alpha_2
```



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