

```
1  <?php
2
3
4  /**
5   * Rating Billing and Routing
6   *
7   * Three main classes in this package :
8   * <ol>
9   * <li>e164_call extended by call_ttl.
10  * <li>call_ttl extended by call_routes.
11  * <li>call_routes called by the invite.php (a simple XML-RPC server invoked by a
remote client).
12  * </ol>
13  *
14  * Those classes are used by the xml servers (invite.php, invite_stop.php) to calculate
and produce:
15  *
16  * <ol>
17  * <li>The Total Time to Live.
18  * <li>The Route(s) a call can/should take
19  * <li>Finally, calculate call costs and profits for Digifonica, Digifonica partners
and End users (Partner clients)
20  * </ol>
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 formatted e164 number<br>
40   * 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>
42   * national or internationa number the way s/he is used to.<br>
43   * Using a caller profile, we identify if a callee (number being called) is local,
national or internal call to <br>
44   * the caller and not to the system.<br>
45   *
46   * Three main classes in this package :
47   * <ol>
```

```
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remote client).
51      * </ol>
52      *
53      * Those classes are used by the xml servers (invite.php, invite_stop.php) to
calculate and produce:
54      *
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partners and End users (Partner clients)
59      * </ol>
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",
77          2=> "2:MALFORMED CALLEE,OR NETWORK CALLEE DOES NOT EXIST",
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",
82          7=> "7:WRONG NATIONAL NUMBER",
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(
92          1=> "INTERNATIONAL",
93          2=> "NATIONAL",
94          3=> "LOCAL",
95          4=> "NETWORK",
96          5=> "FAIL",
97          6=> "LOCAL,NATIONAL STYLE",
98          7=> "NETWORK, CROSS DOMAIN"
99      );
100
```

```
103     */
104
105     /**
106      * Holds Original caller
107      *
108      * @var String
109      */
110     public $original_caller;
111     /**
112      * Holds original caller domain
113      *
114      * @var String
115      */
116     protected $original_caller_domain;
117     /**
118      * Original caller idd
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      */
140     protected $original_caller_countrycode;
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.
```

```
158     */
159     public $caller;
160     /**
161     * Holds the caller domain. (not set in the case of incoming call from PSTN or
another supernode)
162     *
163     * @var String
164     */
165     protected $caller_domain;
166     /**
167     * Contains callee domain, can be empty when a PSTN call is the callee, if callee
domain is not present, class will atte,pt to guess it.
168     *
169     * @var String
170     */
171     protected $callee_domain;
172     /**
173     * The caller Internationa Dialing Digit (IDD) extracted from the caller profile,
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     */
189     protected $caller_areacode;
190     /**
191     * Caller country code, used to determine if a user is making a national call.
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 considered local call.
199     *
200     * @var Boolean
201     */
202     protected $caller_has_overlapping;
203     /**
204     * This holds all area codes for the user, including overlapping area codes.
```

```
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     /**
217      * this is a flag, used to store original callee only once, original callee must be
218      * stored in case of multiple call forwards.
219      *
220      * @var Boolean
221      */
222     protected $callee_is_set;
223
224     /**
225      * callee variables
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
247      * array $call_type
248      *
249      * @var integer
250      */
251     protected $callee_type; //look up for $call_type
252     /**
253      * Stores callee data
254      * store as an associative array as follows :
255      * <ol>
256      * <li>ml_id
257      * <li>ml_dialing_code
258      * <li>country_code
259      * <li>ISO_3166_1_alpha_2
```

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