



# 공간정보API 사용자 가이드

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## 변경내역

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# 1. 개요

## 1) 전체 API 목록

| 분류         | 카테고리 | API                        | ID  | 설명                       | 비고 |
|------------|------|----------------------------|-----|--------------------------|----|
| 검색 엔진 API  | POI  | localSearch                | 901 | 지역정보 검색                  |    |
|            |      | autoMake                   | 902 | 자동완성(유사 검색어 조회)          |    |
|            |      | SearchPOI                  | 911 | 반경 내 POI 검색              |    |
|            |      | FingerSearch               | 913 | 다각형 좌표 범위 내 POI 검색(손검색)  |    |
|            |      | OneTouchPOI                | 914 | 원터치 POI 검색(타일 정보 검색)     |    |
|            |      | localSearchCount           | 918 | 지역정보검색 결과수 검색            |    |
|            | 테마   | ThemeSearch                | 903 | 테마코드 기반 반경 검색            |    |
|            |      | ThemaList                  | 905 | 테마정보 조회                  |    |
|            |      | SpThemaType                | 915 | 스페셜 테마 유형 조회             |    |
|            |      | SpThemeSearch              | 917 | 스페셜 테마코드 기반 반경 검색        |    |
|            |      | ThemaListBySvNo            | 919 | 테마정보 조회 (서비스번호)          |    |
|            | 주소   | AddrStepSearch             | 906 | 단계별 주소 조회                |    |
|            |      | AddrPointSearch            | 907 | 포함 주소 중심좌표 조회            |    |
|            |      | AddrNearestPosSearch       | 908 | 지점 좌표 주소 조회(지번 포함)       |    |
|            |      | AddrNearestPosSearch2      | 909 | 지점 좌표 주소 조회(지번 미포함)      |    |
| 스페셜 DB API | POI  | GetPoiWithinRectangle      | 101 | Rectangle 와 명칭으로 POI 조회  |    |
|            |      | GetPoiWithinPolygon        | 102 | Polygon 과 명칭으로 POI 조회    |    |
|            |      | GetPoiWithinCircle         | 104 | 반경안에서 명칭으로 POI 조회        |    |
|            |      | GetPoiWithinNearArea       | 105 | 가까운 POI 명칭 조회            |    |
|            |      | GetPoiAlongPath            | 106 | 경로와 명칭으로 POI 조회          |    |
|            |      | GetPoiWithName             | 107 | 명칭 또는 초성으로 POI 조회        |    |
|            |      | GetDetailPoiInfo           | 108 | Poi id 를 이용한 상세정보 조회     |    |
|            | 테마   | GetThemePoiWithinRectangle | 301 | Rectangle 와 테마코드로 POI 조회 |    |
|            |      | GetThemePoiWithinPolygon   | 302 | Polygon 과 테마코드로 POI 조회   |    |
|            |      | GetThemePoiWithinCircle    | 304 | 반경 과 테마코드로 POI 조회        |    |
|            |      | GetThemePoiWithinNearArea  | 305 | 가까운 POI 테마코드 조회          |    |
|            |      | GetThemePoiAlongPath       | 306 | Line 과 테마코드로 POI 조회      |    |
|            |      | GetThemePoi                | 307 | 테마코드로 POI 조회             |    |

|          |                           |            |               |  |
|----------|---------------------------|------------|---------------|--|
|          | <b>GetThemeCodeList</b>   | <b>308</b> | 테마코드 리스트 조회   |  |
| 지오<br>코딩 | <b>GetGeocodeByAddr</b>   | <b>501</b> | 지오코딩          |  |
|          | <b>GetAddrByGeocode</b>   | <b>502</b> | 리버스 지오코딩      |  |
|          | <b>GetNewStyleAddress</b> | <b>503</b> | 구주소 -> 새주소 변환 |  |
|          | <b>GetSubAddress</b>      | <b>504</b> | 단계별 주소 조회     |  |
| 기타       | <b>ConvertCoord</b>       | <b>601</b> | 좌표변환          |  |

## 2) 공통 정의 사항

### A. 공통 파라미터

- 공간정보 API 를 사용하기 위해서는 AppID 와 인증키를 발급받아야 한다.
- 발급받은 AppID 와 인증키를 이용하여 HTTP 헤더의 "authorization"에 포함된다.  
헤더에 "authorization"의 이름으로 "Basic base64Encoding"을 값으로 입력 한다.  
base64Encoding 는 "AppID:인증키"를 Base64 인코딩 한 값이다.  
Ex> URLConnection conn = url.openConnection();  
conn.addRequestProperty("authorization","Basic T2xsZWg=\*\*\*\*\*");
- 입력 파라미터 params 의 value 는 json 형태이며 UTF-8 URL 인코딩 하여 입력 한다.  
Ex>
  1. API 의 입력 파라미터를 JSON 형태로 만든다. (GetGeocodeByAddr Sample)  
ex)params={"timestamp":"20111006174933765","addrctype":"0","addr":"%EC%82%BC%EC%84%B1%EB%8F%99"}  
addr 의 값도 한글이기 때문에 UTF-8 URL Encoding 되어있다.
  2. params 의 values 를 UTF-8 URL Encoding 으로 한다.  
ex)params=params=%7B%22timestamp%22%3A%2220111006174933765%22%2C%22addrctype%22%3A%220%22%2C%22addr%22%3A%22%25EC%2582%25BC%25EC%2584%25B1%25EB%258F%2599%22%7D
  3. API 를 요청 한다.  
ex)<http://openapi.kt.com/maps/geocode/GetGeocodeByAddr?params=%7B%22timestamp%22%3A%2220111006174933765%22%2C%22addrctype%22%3A%220%22%2C%22addr%22%3A%22%25EC%2582%25BC%25EC%2584%25B1%25EB%258F%2599%22%7D>

### B. URL 정보

- 조회 API URL : <http://openapi.kt.com>
- 응답 Format : json
- 예시 : <http://openapi.kt.com/maps/etc/RouteSearch>

### C. 공통 헤더

|                          |                   |
|--------------------------|-------------------|
| <b>transactionid</b>     | SDP 시스템이 발급한 일련번호 |
| <b>sequenceno</b>        | 시스템 내부 구간 순서      |
| <b>returncode</b>        | 결과 코드             |
| <b>returndescription</b> | 결과 메시지            |
| <b>errorcode</b>         | 에러 코드             |
| <b>errordescription</b>  | 에러 메시지            |
| <b>ID</b>                | 요청한 API의 고유번호     |
| <b>NO</b>                | 호출 고유번호           |
| <b>ERRCD</b>             | 에러코드(0:정상처리)      |
| <b>ERRMSG</b>            | 에러 메시지            |
| <b>RESDATA</b>           | 각 API의 결과 Data    |

## 2. API 규격

### I. 검색엔진 API

#### 1) POI

##### A. 지역정보 검색

| <b>localSearch</b> |  |
|--------------------|--|
| <b>기본정보</b>        | <ul style="list-style-type: none"> <li><b>기능:</b> 지역검색엔진을 통한 키워드 기반의 검색을 요청한다. (검색어가 전화번호일 경우, XY 좌표가 없으면 신대방동 좌표 기준으로 검색)</li> <li><b>방식:</b> GET/POST</li> <li><b>호출 URL:</b> <a href="http://openapi.kt.com/maps/search/localSearch">http://openapi.kt.com/maps/search/localSearch</a></li> </ul> |
| <b>요청 파라미터</b>     |  |
| Query              | 검색어 (UTF-8 인코딩)  |
| X                  | 검색시 사용할 X좌표값(UTM-K, option)<br>isarea=1 사용시 X 파라미터 필수입력  |
| Y                  | 검색시 사용할 Y좌표값(UTM-K, option)<br>isarea=1 사용시 Y 파라미터 필수입력  |
| S                  | 검색 결과 리턴 타입<br>(option, 파라미터 미입력시(즉, default 설정시) 상호와 주소가 모두 리턴됨)  |

|                                 |  |
|---------------------------------|--|
|                                 | <ul style="list-style-type: none"> <li>- 상호만 리턴 : s=P</li> <li>- 주소만 리턴 : s=A</li> <li>- 상호와 주소를 모두 리턴 : s 값을 입력하지 않음</li> </ul> |
| sr                              | DIS(거리순), RANK(정확도순), MATCH(일치)<br>(option, 기본 RANK)   |
| r                               | 반경(300, 500, 1000, 2000, 4000) (option)  |
| places                          | 장소검색건수조정(option, 기본 5, 최대 100)   |
| addrs                           | 주소검색건수조정(option, 기본 5, 최대 100)   |
| P                               | 페이지(option, 기본 0)  |
| addrcode                        | 주소선택 재검색시 사용(option, 사용 1, 기본 null)  |
| isarea                          | 지도에서 검색(사용자가 보고있는 지도 좌표)<br>(option, 사용 1, 기본 null)<br>isarea=1 사용시 X,Y 파라메터 필수입력)   |
| ishan                           | (option,<br>0 : 기존 검색과 동일<br>1 : 한영변환된 검색어로 검색 + 한영변환된 결과 리턴<br>2 : 입렵된 검색어로 검색 + 한영변환된 결과 리턴<br>)                               |
| <b>반환값</b>                      |  |
| <b>최상위 결과 영역</b>                |  |
| searchType                      | ISC 검색엔진 검색 타입(값은 A~H 중 1가지)<br>(세부 코드 내용은 지역검색기 매뉴얼 문서를 참조)   |
| addr                            | 주소검색 결과 영역   |
| place                           | 장소검색 결과 영역   |
| QueryResult                     | 질문분석기 결과 영역  |
| <b>주소검색 결과 영역(addr)</b>         |  |
| TotalCount                      | 검색결과 총수  |
| Count                           | 현재 포함된 검색결과수   |
| <b>Data 리스트 (Count 개수만큼 반복)</b> |  |
| index                           | 검색어에서 찾아진 주소 리스트 인덱스   |
| address_code                    | 주소코드   |
| dong_code                       | 동코드  |
| address                         | 주소   |
| poi_dic                         | 통상명여부(1/0)   |
| range_code                      | 반경값  |

|                                |   |
|--------------------------------|---|
| x                              | 중심 X좌표  |
| y                              | 중심 Y좌표  |
| <b>장소검색 결과 영역(place)</b>       |   |
| TotalCount                     | 검색결과 총수   |
| Count                          | 현재 포함된 검색결과수  |
| <b>Data 리스트 (Count개수만큼 반복)</b> |   |
| Rank                           | 랭킹번호  |
| Uid                            |   |
| DOCID                          | 도큐먼트 번호   |
| DID_CODE                       | 도큐먼트 코드번호   |
| NAME                           | 상호명   |
| IDX_NM                         | 색인용 상호명   |
| KWORD                          | 키워드   |
| X                              | UTM-K X좌표   |
| Y                              | UTM-K Y좌표   |
| ADDR_CODE                      | 주소맵핑용 code  |
| ADDR                           | 주소  |
| IDX_ADDR                       | 색인용 주소  |
| TEL                            | 전화번호  |
| IDX_TEL                        | 전화번호 색인용  |
| REF_TEL                        | 관련 전화 번호  |
| TEL_CNT                        | 관련전화번호 개수   |
| UJ_NAME                        | 업종명   |
| UJ_CODE                        | 업종코드  |
| UJ_CODES                       | 관련 업종 코드  |
| UJ_KWORD                       | 관련 업종 키워드   |
| THEME_NAME                     | 테마이름  |
| THEME_CODE                     | 테마코드  |
| ORG_DB_TYPE                    | 데이터 성격필드<br>MP: 일반 POI – 상세보기 가능 (Master POI ID 이용)<br>TR : 대중교통정류장(버스/지하철) - 대중교통 API이용<br>WI : Wi-Fi Zone (상세보기 없음)<br>OL: 주유소 (그룹GIS 내 유가정보 API 조회용)<br>MV: 영화관 (맥스무비 API 조회용) |
| ORG_DB_ID                      | 위 데이터들의 DB ID   |

|   |                   |
|---|-------------------|
| DATE  | 변경날짜              |
| R_CNT   | 리뷰카운트(현재 미사용)     |
| STAR_CNT  | 별점(현재 미사용)        |
| URL   | 홈페이지 URL          |
| IMGURL  | 대표이미지 URL         |
| POI_YN  | POI 여부(1/0)       |
| POI_ID_LIST   | 통상명 ID            |
| POI_LIST  | 통상명 리스트           |
| POI_KWORD   | 통상명 유의어 리스트       |
| DATASRC   | 출처 구분 코드          |
| H_CODE  | 행정동 코드            |
| B_CODE  | 법정동 코드            |
| H_ADDR  | 행정동 주소            |
| B_ADDR  | 법정동 주소            |
| STHEME_CODE   | 스페셜 테마 코드         |
| STHEME_INFO   | 스페셜 테마 정보         |
| <b>질문분석기 결과 영역(QueryResult)</b>   |                   |
| Querystr  | 질문 분석기에 입력된 Query |
| RemainedQuery   | 지역성 쿼리를 제외한 쿼리    |
| PoiQuery  | 대표로 분석된 POI명      |
| Kmwords   | Kma 분석 결과         |
| arrPQuery   | 질문 분석기 분석 결과      |
| <b>사용 예제</b>  |                   |
| <b>요청 URL</b>   |                   |
| http://openapi.kt.com//maps/search/localSearch?params={%22transactionid%22%3A%22%2C%22sequence no%22%3A%22%22%2C%22userid%22%3A%22%22%2C%22screenid%22%3A%22%22%2C%22timestamp%22 %3A%221317949634794%22%2C%22query%22%3A%22%25EC%258B%25A0%25EB%25A6%25BC%22}&   |                   |
| <b>결과값 예시</b>   |                   |
| <pre>{"sequenceno":"9999","errordescription":null,"returncode":"1","transactionid":"f752f6d5-f8cb-3953-b7a3-7f340c7f2c60","payload": "%7B%22RESULTDATA%22%3A%7B%22QueryResult%22%3A%7B%22Querystr%22%3A%22%EA%B0%80%EB%9D%BD%EB%8F%99+IT%EB%B2%A4%EC%B3%90%ED%83%80%EC%9B%8C%22%2C%22Kmwords%22%3A%22%EA%B0%80%EB%9D%BD%EB%8F%99+it%EB%B2%A4%EC%B3%90%ED%83%80%EC%9B%8C+it+%EB%B2%A4%EC%B3%90+%ED%83%80%EC%9B%8C+%22%2C%22PoQiQuery%22%3A%22%EA%B0%80%EB%9D%BD%EB%8F%99%22%2C%22RemainedQuery%22%3A%22it+%EB%B2%A4%EC%B3%90+%ED%83%80%EC%9B%8C%22%2C%22Local_Remained_query%22%3A%0%2C%22selectedad</pre> |                   |

```

dr%22%3A
%7B%22index%22%3A%220%22%2C%22address_code%22%3A%22009000018001000%22%2C%22address%22
%3A%22%EC%84%9C%EC%9A%B8%ED%8A%B9%EB%B3%84%EC%8B%9C+%EC%86%A1%ED%8C%8C%EA%B
5%AC+%EA%B0%80%EB%9D%BD1%EB%8F%99%22%2C%22dong_code%22%3A%221171063100%22%2C%22
poi_dic%22%3A%220%22%2C%22range_code%22%3A%220%22%2C%22y%22%3A%221944219%22%2C%22x
%22%3A%22965139%22%7D%2C%22arrPQuery%22%3A%5B
%7B%22index%22%3A%220%22%2C%22address_code%22%3A%22009000018001000%22%2C%22address%22
%3A%22%EC%84%9C%EC%9A%B8%ED%8A%B9%EB%B3%84%EC%8B%9C+%EC%86%A1%ED%8C%8C%EA%B
5%AC+%EA%B0%80%EB%9D%BD1%EB%8F%99%22%2C%22dong_code%22%3A%221171063100%22%2C%22
poi_dic%22%3A%220%22%2C%22range_code%22%3A%220%22%2C%22y%22%3A%221944219%22%2C%22x
%22%3A%22965139%22%7D%2C
%7B%22index%22%3A%221%22%2C%22address_code%22%3A%22009000018003000%22%2C%22address%22
%3A%22%EC%84%9C%EC%9A%B8%ED%8A%B9%EB%B3%84%EC%8B%9C+%EC%86%A1%ED%8C%8C%EA%B
5%AC+%EA%B0%80%EB%9D%BD%EB%8F%99%22%2C%22dong_code%22%3A%2211710700%22%2C%22p
oi_dic%22%3A%220%22%2C%22range_code%22%3A%220%22%2C%22y%22%3A%221944073%22%2C%22x%2
2%3A%22966286%22%7D%2C
%7B%22index%22%3A%222%22%2C%22address_code%22%3A%22009000018004000%22%2C%22address%22
%3A%22%EC%84%9C%EC%9A%B8%ED%8A%B9%EB%B3%84%EC%8B%9C+%EC%86%A1%ED%8C%8C%EA%B
5%AC+%EA%B0%80%EB%9D%BD%EB%8F%99%22%2C%22dong_code%22%3A%221171062000%22%2C%22
22%2C%22poi_dic%22%3A%220%22%2C%22range_code%22%3A%220%22%2C%22y%22%3A%221944105%22
%2C%22x%22%3A%22966572%22%7D%2C
%7B%22index%22%3A%223%22%2C%22address_code%22%3A%22009000018002000%22%2C%22address%22
%3A%22%EC%84%9C%EC%9A%B8%ED%8A%B9%EB%B3%84%EC%8B%9C+%EC%86%A1%ED%8C%8C%EA%B
5%AC+%EA%B0%80%EB%9D%BD2%EB%8F%99%22%2C%22dong_code%22%3A%221171063200%22%2C%22
poi_dic%22%3A%220%22%2C%22range_code%22%3A%220%22%2C%22y%22%3A%221944451%22%2C%22x
%22%3A%22966999%22%7D%2C
%7B%22index%22%3A%224%22%2C%22address_code%22%3A%22008000001001000%22%2C%22address%22
%3A%22%EB%B6%80%EC%82%80%EA%B4%91%EC%97%AD%EC%8B%9C+%EA%B0%95%EC%84%9C%EA%B5
%AC+%EA%B0%80%EB%9D%BD%EB%8F%99%22%2C%22dong_code%22%3A%222644055000%22%2C%22poi
_dic%22%3A%220%22%2C%22range_code%22%3A%220%22%2C%22y%22%3A%221689911%22%2C%22x%22
%3A%221127612%22%7D%7D%2C%22Query%22%3A%22%EA%B0%80%EB%9D%BD%EB%8F%99+it%EB
%B2%A4%EC%B3%90%ED%83%80%EC%9B%8C%22%2C%22addr%22%3A
%7B%22Data%22%3A%5B%5D%2C%22Count%22%3A0%2C%22TotalCount%22%3A0%7D%2C%22searchType%
22%3A%22C%22%2C%22place%22%3A
%7B%22Name%22%3A%22gw_local_master%22%2C%22Count%22%3A%220%22%2C%22totalCount%22%3A%
220%22%2C%22RawDataLen%22%3A%220%22%2C%22KMAQuery%22%3A%22%EA%B0%80%EB%9D%BD
%EB%8F%99+it%EB%B2%A4%EC%B3%90+%ED%83%80%EC%9B%8C+it%EB%B2%A4%EC%B3%90%ED%83%
80%EC%9B%8C%22%7D%2C%22ERRMSG%22%3A%22%22%2C%22ERRCODE%22%3A%220%22%2C%22APIID
%22%3A%22901%22%7D","errorcode":null,"returndescription":"SUCCESS"}}

+++++++"payload" 값을 URL 디코딩(UTF-8) > ++++++

```

Result Data=

```

{"RESULTDATA":
{"QueryResult":
{"Querystr":"가락동 IT 벤쳐타워","Kmwords":"가락동 it 벤쳐타워 it 벤쳐 타워",
"PoiQuery":"가락동","RemainedQuery":"it 벤쳐 타워","Local_Remained_query":0,"selectedaddr":"
{"index":0,"address_code":"009000018001000","address":"서울특별시 가락 1 동","dong_code":"1171063100","poi_dic":0,"range_code":0,"y":"1944219","x":"965139"},"arrPQuery":[
{"index":0,"address_code":"009000018001000","address":"서울특별시 가락 1 동","dong_code":"1171063100","poi_dic":0,"range_code":0,"y":"1944219","x":"965139"}, {"index":1,"address_code":"009000018003000","address":"서울특별시"
}

```

```
가락동","dong_code":"1171010700","poi_dic":"0","range_code":"0","y":"1944073","x":"966286"},  
{"index":"2","address_code":"009000018004000","address":"서울특별시 가락분동","dong_code":"1171062000","poi_dic":"0","range_code":"0","y":"1944105","x":"966572"},  
 {"index":"3","address_code":"009000018002000","address":"서울특별시 가락 2 동","dong_code":"1171063200","poi_dic":"0","range_code":"0","y":"1944451","x":"966999"},  
 {"index":"4","address_code":"008000001001000","address":"부산광역시 가락동","dong_code":"2644055000","poi_dic":"0","range_code":"0","y":"1689911","x":"1127612"}],"Query":"가락동 it 벤쳐타워","addr":  
 {"Data":[],"Count":0,"TotalCount":0},"searchType":"C","place":  
 {"Name":"gw_local_master","Count":0,"TotalCount":0,"RawDataLen":0},"KMAQuery":"가락동 it 벤쳐 타워  
 it 벤쳐타워"},"ERRMSG":"","ERRCODE":0,"APIID":901}"
```

## B. 지역정보 결과 갯수 검색

| 기본정보  | localSearchCount  |
|---|---|
|   | ● 기능: localSearch에서 검색된 결과 수(TotalCount)를 조회한다.                                   |
|   | ● 방식: GET/POST  |
| ● 호출 URL: <a href="http://openapi.kt.com/maps/search/localSearchCount">http://openapi.kt.com/maps/search/localSearchCount</a> |   |
| 요청 파라미터   |   |
| Query   | 검색어 (UTF-8 인코딩)   |
| X   | 검색시 사용할 X좌표값(UTM-K, option)<br>isarea=1 사용시 X 파라메터 필수입력                           |
| Y   | 검색시 사용할 Y좌표값(UTM-K, option)<br>isarea=1 사용시 Y 파라메터 필수입력                           |
| r   | 반경(300, 500, 1000, 2000, 4000) (option)   |
| addrcode  | 주소선택 재검색시 사용(option, 사용 1, 기본 null)   |
| isarea  | 지도에서 검색(사용자가 보고있는 지도 좌표)<br>(option, 사용 1, 기본 null)<br>isarea=1 사용시 X,Y 파라메터 필수입력 |
| 반환값   |   |
| 최상위 결과 영역   |   |
| Querystr  | 질문 분석기에 입력된 Query   |
| searchType  | ISC 검색엔진 검색 타입(값은 A~H 중 1가지)<br>(세부 코드 내용은 지역검색기 매뉴얼 문서를 참조)                      |
| 장소검색 결과 영역(place)   |   |
| TotalCount  | 검색결과 총수   |
| 사용 예제   |   |

```
http://openapi.kt.com/maps/search/localSearchCount?params=%7B%22timestamp%22%3A%22201204130920233765%22%2C%22sequenceno%22%3A%22%22%2C%22query%22%3A%22%25EA%25B0%2595%25EB%2582%25A8%25EC%2597%25AD%2B%25EB%25A7%259B%25EC%25A7%2591%22%2C%22transactionid%22%3A%22%22%2C%22userid%22%3A%22%22%2C%22screenid%22%3A%22%22%7D
```

#### 요청 URL

```
{"sequenceno":"9999","errordescription":null,"returncode":"1","transactionid":"d0e95742-64aa-30af-8473-9c2f9fa87b5e","payload":%7B%22RESULTDATA%22%3A%7B%22Querystr%22%3A%22%EA%B0%95%EB%82%A8%EC%97%AD+%EB%A7%9B%EC%A7%91%22%2C%22Query%22%3A%22%EA%B0%95%EB%82%A8%EC%97%AD+%EB%A7%9B%EC%A7%91%22%2C%22searchType%22%3A%22H%22%2C%22place%22%3A%7B%22Name%22%3A%22gw_local_master%22%2C%22TotalCount%22%3A%2240%22%2C%22RawDataLen%22%3A%224286%22%7D%2C%22KMAQuery%22%3A%22%EA%B0%95%EB%82%A8+%EC%97%AD+%EA%B0%95%EB%82%A8%EC%97%AD+%EB%A7%9B%EC%A7%91%22%7D%2C%22ERRMSG%22%3A%22%22%2C%22ERCODE%22%3A%220%22%2C%22APIID%22%3A%22918%22%7D","errorcode":null,"returndescription":"SUCSES"}}

+++++<"payload" 값을 URL 디코딩(UTF-8)> ++++++
```

```
{"RESULTDATA": {"Querystr":"강남역 맛집","Query":"강남역 맛집","searchType":"H","place": {"Name":"gw_local_master","TotalCount":"40","RawDataLen":"4286"}, "KMAQuery":"강남역 맛집"}, "ERRMSG":"","ERRCODE":"0","APIID":"918"} 강남역
```

### C. 자동완성(유사 검색어 조회)

|         |   |                   |
|---------|---|-------------------|
| 기본정보    | autoMake  |                   |
|         | <ul style="list-style-type: none"> <li>기능: 검색어 입력시 유사 검색어를 요청한다.</li> <li>방식: GET/POST</li> <li>호출 URL: <a href="http://openapi.kt.com/maps/search/autoMake.format">http://openapi.kt.com/maps/search/autoMake.format</a></li> <li>오타에 대한 자동처리가 현재 검색엔진에서 지원되지 않음</li> <li>검색을 수행한 정보로 만들어지므로 처음 입력된 검색어의 경우 자동완성 테이타가 없을 수 있음</li> </ul> |                   |
| 요청 파라미터 |   |                   |
| Query   |   | 검색어(URL인코딩 UTF-8) |
| 반환값     |   |                   |

|   |        |
|---|--------|
| forward   | 전방비교결과 |
| initsyllable  | 초성비교결과 |
| <b>사용 예제</b>  |        |
| <b>요청 URL</b>   |        |
| <pre>http://openapi.kt.com/maps/search/autoMake?params=%7B%22timestamp%22%3A%2220120413092033765% 22%2C%22sequenceno%22%3A%22%22%2C%22query%22%3A%22%25EB%258B%25A4%25EC%259D%258C% 22%2C%22transactionid%22%3A%22%22%2C%22userid%22%3A%22%22%2C%22screenid%22%3A%22%22%7 D</pre>   |        |
| <b>결과값 예시</b>   |        |
| <pre>{"timestamp":"20120413092033765","sequenceno":"","query":"KT","transactionid":"","userid":"","screenid":""} url:http://openapi.kt.com/maps/search/autoMake?params=%7B%22timestamp%22%3A%222012041309203376 5%22%2C%22sequenceno%22%3A%22%22%2C%22query%22%3A%22KT%22%2C%22transactionid%22%3A%2 2%22%2C%22userid%22%3A%22%22%2C%22screenid%22%3A%22%22%7D {"sequenceno":"9999","errordescription":null,"returncode":"1","transactionid":"dd5efa94-2ea5-3d6c-99d8- 0386b7dc6a4e","payload": %7B%22RESULTDATA%22%3A %7B%22initsyllable%22%3A%5B%5D%2C%22forward%22%3A%5B%22ktx+%EA%B4%91%EB%AA%85%EC%97 %AD%22%2C%22ktx+%EB%B6%80%EC%82%80%22%2C%22ktf%ED%83%80%EC%9B%8C%22%2C%22kth%22 %2C%22kt%26g%EC%83%81%EC%83%81%EB%A7%88%EB%8B%8B%22%2C%22ktb%EB%84%A4%ED%8A%B8 %EC%9B%8C%ED%81%AC%22%2C%22ktf%EB%8B%8C%EB%94%A9%22%2C%22kt%22%2C%22ktbnetwork%2 2%2C%22ktx%EB%8F%99%EB%8C%80%EA%B5%AC%EC%97%AD%22%5D%2C%22query%22%3A%5B%22KT% 22%2C%22KT%22%5D%7D%2C%22ERRMSG%22%3A%22%22%2C%22ERRCODE%22%3A%220%22%2C%22APII D%22%3A%22902%22%7D","errorcode":null,"returndescription":"SUCCESS"}</pre> <p style="text-align: center;">+++++&lt;"payload"&gt; 값을 URL 디코딩(UTF-8)&lt;=====</p> <p>"</p> <pre>{"RESULTDATA": {"initsyllable":[],"forward":["ktx 부산","ktf 타워","kth","kt&amp;g 상상마당","ktb 네트워크","ktf 빌딩","kt","ktbnetwork","ktx 동대구역"],"query":["KT","KT "]},ERRMSG:"",ERRCODE:"0",APIID:"902"}</pre> |        |

#### D. 반경 내 POI 검색

| 기본정보    | SearchPOI   |
|---------|---|
|         | <ul style="list-style-type: none"> <li>● 기능: X, Y 좌표를 중심으로 지정한 반경 내의 POI 정보를 거리순으로 찾아준다.</li> <li>● 방식: GET/POST</li> <li>● 호출 URL: <a href="http://openapi.kt.com/maps/search/SearchPOI.format">http://openapi.kt.com/maps/search/SearchPOI.format</a></li> <li>● 참고 : 유선 올레맵 서비스의 빠른 길찾기 기능에 사용될 수 있다.</li> </ul> |
| 요청 파라미터 |   |

|                              |  |
|------------------------------|--|
| Radius                       | 반경 값   |
| X                            | 사용자 중심 X 좌표  |
| Y                            | 사용자 중심 Y 좌표  |
| COUNT                        | 빠른 길찾기 검색 결과 수 (옵션 기본 10, MAX 100)   |
| P                            | 페이지 (옵션 기본 0)  |
| <b>반환값</b>                   |  |
| <b>검색결과 정보</b>               |  |
| TotalCount                   | 검색결과 총수  |
| Count                        | 현재 포함된 검색결과수   |
| <b>검색결과 리스트 (Count만큼 반복)</b> |  |
| Rank                         | 랭킹번호   |
| Uid                          |  |
| DOCID                        | 도큐먼트 번호  |
| DOC_CODE                     | 도큐먼트 코드번호  |
| NAME                         | 상호명  |
| IDX_NM                       | 색인용 상호명  |
| KWORD                        | 키워드  |
| X                            | UTM-K X좌표  |
| Y                            | UTM-K Y좌표  |
| ADDR_CODE                    | 주소맵핑용 code   |
| ADDR                         | 주소   |
| IDX_ADDR                     | 색인용 주소   |
| TEL                          | 전화번호   |
| IDX_TEL                      | 전화번호 색인용   |
| REF_TEL                      | 관련 전화 번호   |
| TEL_CNT                      | 관련전화번호 개수  |
| UJ_NAME                      | 업종명  |
| UJ_CODE                      | 업종코드   |
| UJ_CODES                     | 관련 업종 코드   |
| UJ_KWORD                     | 관련 업종 키워드  |
| THEME_NAME                   | 테마이름   |
| THEME_CODE                   | 테마코드   |
| ORG_DB_TYPE                  | 데이터 성격필드<br>MP: 일반 POI - 상세보기 가능 (Master POI ID 이용)<br>TR : 대중교통정류장(버스/지하철) - 대중교통 API이용 |

|  |   |
|--|---|
|  | WI : Wi-Fi Zone (상세보기 없음)<br>OL: 주유소 (그룹GIS 내 유가정보 API 조회용)<br>MV: 영화관 (맥스무비 API 조회용) |
| ORG_DB_ID  | 위 데이터들의 DB ID   |
| DATE   | 변경날짜  |
| R_CNT  | 리뷰카운트(현재 미사용)   |
| STAR_CNT   | 별점(현재 미사용)  |
| URL  | 홈페이지 URL  |
| IMGURL   | 대표이미지 URL   |
| POI_YN   | POI 여부(1/0)   |
| POI_ID_LIST  | 통상명 ID  |
| POI_LIST   | 통상명 리스트   |
| POI_KEYWORD  | 통상명 유의어 리스트   |
| DATASRC  | 출처 구분 코드  |
| H_CODE   | 행정동 코드  |
| B_CODE   | 법정동 코드  |
| H_ADDR   | 행정동 주소  |
| B_ADDR   | 법정동 주소  |
| <b>사용 예제</b>   |   |
| <b>요청 URL</b>  |   |
| http://openapi.kt.com/maps/search/SearchPOI?params=%7B%22timestamp%22%3A%2220120413092033765%22%2C%22sequenceno%22%3A%22%22%2C%22transactionid%22%3A%22%22%2C%22userid%22%3A%22%22%2C%22screenid%22%3A%22%22%2C%22radius%22%3A%22100%22%2C%22y%22%3A%221943829%22%2C%22x%22%3A%22948485%22%7D  |   |
| <b>결과값 예시</b>  |   |
| <pre>{"sequenceno":"9999","errordescription":null,"returncode":"1","transactionid":"b82e41d0-5418-364c-91b3-24cbe6d3b270","payload":"%7B%22RESULTDATA%22%3A%7B%22initsyllable%22%3A%5B%5D%2C%22forward%22%3A%5B%22%EB%8B%A4%EC%9D%8C%EC%BB%A4%EB%AE%A4%EB%8B%88%EC%BC%80%EC%9D%B4%EC%85%98%22%2C%22%EB%8B%A4%EC%9D%8C%EB%B0%AD%EA%B3%A8%22%2C%22%EB%8B%A4%EC%9D%8C%EA%B3%A1%22%2C%22%EB%8B%A4%EC%9D%8C%EB%98%8C%22%2C%22%EB%8B%A4%EC%9D%8C%EA%B3%A8%22%2C%22%EB%8B%A4%EC%9D%8C%EB%8F%85%EC%84%9C%EC%8B%A4%22%2C%22%EB%8B%A4%EC%9D%8C%EC%82%AC%EB%A3%8C%22%2C%22%EB%8B%A4%EC%9D%8C%EA%B8%0%EC%88%A0%28%EC%A3%BC%29%22%2C%22%EB%8B%A4%EC%9D%8C%EA%B5%90%ED%9A%8C%22%2C%22%EB%8B%A4%EC%9D%8C%EB%B9%8C%EB%9D%BC%ED%8A%8B%22%5D%2C%22query%22%3A%5B%22%EB%8B%A4%EC%9D%8C%22%2C%22%EB%8B%A4%EC%9D%8C%22%5D%7D%2C%22ERRMSG%22%3A%22%22%2C%22ERRCODE%22%3A%22%22%2C%22APIID%22%3A%22902%22%7D","errorcode":null,"returndescription":"SUCCESS"}</pre> |   |

```
++++++<"payload" 값을 URL 디코딩(UTF-8)> ++++++
"
{"RESULTDATA":
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```

## E. 다각형 좌표 범위 내 POI 검색(손검색)

| FingerSearch                        |  |
|-------------------------------------|--|
| 기본정보                                | <ul style="list-style-type: none"> <li>기능: 연속된 점들로 이루어진 다각형의 좌표들을 받아 해당 좌표의 영역내에 존재하는 POI를 검색한다.</li> <li>방식: POST</li> <li>호출 URL: <a href="http://openapi.kt.com/maps/search/FingerSearch.format">http://openapi.kt.com/maps/search/FingerSearch.format</a></li> </ul> |
| 요청 파라미터                             |  |
| POLYGON                             | <p>지점 좌표 집합 데이터</p> <ul style="list-style-type: none"> <li>- 필수 파라미터</li> <li>- 좌표계 : UTM-K</li> <li>- 입력 패턴 : X1,Y1,X2,Y2,...,Xn,Yn (공백 없이 입력하며, 복수개 입력 시 콤마(.)로 구분.)<br/>(X,Y 쌍이 150 개가 초과되면 결과를 받을 수 없으므로, 150 쌍을 넘지 않도록 주의)</li> </ul>                               |
| VIEWCNT                             | 빠른 길찾기 검색 결과 수 (Option, default 10, MAX 50)  |
| PAGE                                | 페이지 (Option, default 0)  |
| CATEGORY                            | 테마코드<br>(참고 : <a href="#">검색엔진용 유무선 올레맵 공통 테마코드</a> )  |
| 반환값                                 |  |
| 검색결과 정보                             |  |
| TOTALPOI_count                      | 검색결과 총수  |
| TOTALPOI_viewcount                  | 현재 검색 결과 수   |
| 검색결과 리스트 (TOTALPOI_viewcount 만큼 반복) |  |
| name                                | 상호명  |
| address                             | 주소   |
| docid                               | <p>Key<br/>(다각형 검색 기능을 사용하는 페이지에서 검색 후 표출된 검색 결과에서,<br/>하나의 검색결과를 클릭 시에 상세 페이지로 보여주기 위한 primary key 를 의미)</p>  |
| x                                   | 중심 좌표 X  |

|   |                     |
|---|---------------------|
| y   | 중심 좌표 Y             |
| distance  | 다각형의 중심 좌표에서 떨어진 거리 |
| rank  | 정확도 랭킹              |
| category  | 테마코드                |
| tel   | 전화번호                |
| org_db_type   | 소스에 따른 DB 타입        |
| org_db_id   | 소스에 따른 DB Key       |
| <b>사용 예제</b>  |                     |
| <b>요청 URL</b>   |                     |
| http://openapi.kt.com/maps/search/FingerSearch?params=%7B%22polygon%22%3A%22949643%2C1942995%2C950139%2C1943203%2C950155%2C1942803%2C949467%2C1942563%2C949179%2C1943075%22%2C%22timstamp%22%3A%2220120413092033765%22%2C%22sequenceno%22%3A%22%22%2C%22category%22%3A%22%20100%22%2C%22transactionid%22%3A%22%22%2C%22userid%22%3A%22%22%2C%22screenid%22%3A%22%22%7D  |                     |
| <b>결과값 예시</b>   |                     |
| { "sequenceno": "9999", "errordescription": null, "returncode": "1", "transactionid": "34cf313c-74e7-3893-b212-af806d76f591", "payload": "%7B%22RESULTDATA%22%3A%7B%22TOTALPOI_results%22%3A%5B%7B%22docid%22%3A%22MP1108011414797%22%2C%22category%22%3A%220100%2C0101%22%2C%22rank%22%3A%222.197225%22%2C%22distance%22%3A%2299%22%2C%22org_db_type%22%3A%22MP%22%2C%22address%22%3A%22%EC%84%9C%EC%9A%B8%ED%8A%B9%EB%B3%84%EC%8B%9C_%EA%B4%80%EC%95%85%EA%B5%AC_%EC%8B%A0%EB%A6%BC%EB%8F%99_75-6%22%2C%22tel%22%3A%22028892977%22%2C%22name%22%3A%22%ED%9D%AC%EC%A0%84%EC%83%A4%EB%B8%8C%EC%83%A4%EB%B8%8C%22%2C%22org_db_id%22%3A%220%22%2C%22y%22%3A%221942874%22%2C%22x%22%3A%22949667%22%7D%2C%7B%22docid%22%3A%22MP1108011240519%22%2C%22category%22%3A%220100%2C0103%22%2C%22rank%22%3A%223.583519%22%2C%22distance%22%3A%2236%22%2C%22org_db_type%22%3A%22MP%22%2C%22address%22%3A%22%EC%84%9C%EC%9A%B8%ED%8A%B9%EB%B3%84%EC%8B%9C_%EA%B4%80%EC%95%85%EA%B5%AC_%EC%8B%A0%EB%A6%BC%EB%8F%99_75-43%22%2C%22tel%22%3A%22028722990%22%2C%22name%22%3A%22%EB%B6%81%EA%B2%BD%EB%B0%98%EC%A0%90%28%EC%A4%91%EC%8B%9D%29%22%2C%22org_db_id%22%3A%220%22%2C%22y%22%3A%221942919%22%2C%22x%22%3A%22949667%22%7D%2C%7B%22docid%22%3A%22MP1108011243975%22%2C%22category%22%3A%220100%2C0105%22%2C%22rank%22%3A%224.718499%22%2C%22distance%22%3A%22112%22%2C%22org_db_type%22%3A%22MP%22%2C%22address%22%3A%22%EC%84%9C%EC%9A%B8%ED%8A%B9%EB%B3%84%EC%8B%9C_%EA%B4%80%EC%95%85%EA%B5%AC_%EC%8B%A0%EB%A6%BC%EB%8F%99_1640-13%22%2C%22tel%22%3A%22028865892%22%2C%22name%22%3A%22%EC%98%A4%EB%B8%90%EC%97%0%EB%B9%A0%EC%A7%84%EB%B8%AD%EC%8B%A0%EB%A6%BC%EC%A0%90%22%2C%22org_db_id%22%3 |                     |

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53%22%2C%22tel%22%3A%220%22%2C%22name%22%3A%22%EB%82%A8%EC%9B%90%EA%B3%A8%EB%8F%8C%EC%86%A5%EC%B6%94%EC%96%B4%ED%83%95%28%ED%95%9C%EC%8B%9D%29%22%2C%22org_db_id%22%3A%220%22%2C%22y%22%3A%221942825%22%2C%22x%22%3A%22949383%22%7D%2C%7B%22docid%22%3A%22MP1108011244038%22%2C%22category%22%3A%220100%2C0102%22%2C%22rank%22%3A%223.688879%22%2C%22distance%22%3A%2240%22%2C%22org_db_type%22%3A%22MP%22%2C%22address%22%3A%22%EC%84%9C%EC%9A%B8%ED%8A%B9%EB%B3%84%EC%8B%9C_%EA%B4%80%EC%95%85%EA%B5%AC_%EC%8B%A0%EB%A6%BC%EB%8F%99_1641-2%22%2C%22tel%22%3A%22028818241%22%2C%22name%22%3A%22%EC%9D%BC%EB%A7%88%EB%A0%88%EC%8B%A0%EB%A6%BC%EC%A0%90%22%2C%22org_db_id%22%3A%220%22%2C%22y%22%3A%221942887%22%2C%22x%22%3A%22949628%22%7D%5D%2C%22TOTALPOI_viewcount%22%3A%2210%22%2C%22TOTALPOI_count%22%3A%2206%22%7D%2C%22ERRMSG%22%3A%22%22%2C%22ERRCODE%22%3A%220%22%2C%22APIID%22%3A%22913%22%7D","errorcode":null,"returnndescription":"SUCCESS"}
```

+++++<"payload" 값을 URL 디코딩(UTF-8)> ++++++

"

```
{"RESULTDATA": {"TOTALPOI_results": [{"docid": "MP1108011414797", "category": "0100,0101", "rank": "2.197225", "distance": "9", "org_db_type": "MP", "address": "서울특별시_관악구_신림동_75-6", "tel": "028892977", "name": "희전샤브샤브", "org_db_id": "0", "y": "1942874", "x": "949667"}, {"docid": "MP1108011240519", "category": "0100,0103", "rank": "3.583519", "distance": "36", "org_db_type": "MP", "address": "서울특별시_관악구_신림동_75-43", "tel": "028722990", "name": "북경반점(중식)", "org_db_id": "0", "y": "1942919", "x": "949667"}, {"docid": "MP1108011243975", "category": "0100,0105", "rank": "4.718499", "distance": "112", "org_db_type": "MP", "address": "서울특별시_관악구_신림동_1640-13", "tel": "028865892", "name": "오븐에빠진닭신림점", "org_db_id": "0", "y": "1942870", "x": "949556"}, {"docid": "MP1108011243870", "category": "0100,0102", "rank": "5.062595", "distance": "158", "org_db_type": "MP", "address": "서울특별시_관악구_신림동_1638-24", "tel": "028752392", "name": "덩크슛", "org_db_id": "0", "y": "1942784", "x": "949545"}, {"docid": "MP1111E00026753", "category": "0100,0105", "rank": "5.181784", "distance": "178", "org_db_type": "MP", "address": "서울특별시_관악구_신림동_1638-9", "tel": "028829445", "name": "떡마루신림점", "org_db_id": "0", "y": "1942754", "x": "949545"}, {"docid": "MP1108011471810", "category": "0100,0101", "rank": "5.257495", "distance": "192", "org_db_type": "MP", "address": "서울특별시_관악구_신림동_1422-3", "tel": "0", "name": "찰가마쌈밥삼계탕(한식)", "org_db_id": "0", "y": "1943011", "x": "949809"}, {"docid": "MP1108011460691", "category": "0100,0101", "rank": "5.398163", "distance": "221", "org_db_type": "MP", "address": "서울특별시_관악구_신림동_1412-14", "tel": "0", "name": "남도해물파전(한식)", "org_db_id": "0", "y": "1943034", "x": "949828"}, {"docid": "MP1108011243833", "category": "0100,0102", "rank": "5.560682", "distance": "260", "org_db_type": "MP", "address": ""}]}}
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```

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```

## F. 타일정보 검색

| OneTouchPOI                      |  |
|----------------------------------|--|
| 기본정보                             | <ul style="list-style-type: none"> <li>기능: 선택 지점 및 주변 지점의 타일 정보를 반환한다.</li> <li>방식: GET/POST</li> <li>호출 URL: <a href="http://openapi.kt.com/maps/search/OneTouchPOI.format">http://openapi.kt.com/maps/search/OneTouchPOI.format</a></li> </ul> |
| 요청 파라미터                          |  |
| PX                               | 지도 레벨 (0~13)   |
| PY                               | 선택지점의 X 좌표 (UTM-K)   |
| LEVEL                            | 선택지점의 Y 좌표 (UTM-K)   |
| 반환값                              |  |
| 전체 정보                            |  |
| PX                               | 선택 지점의 X 좌표(UTM-K)   |
| PY                               | 선택 지점의 Y 좌표(UTM-K)   |
| LEVEL                            | 지도 레벨(0~13)  |
| TILE_POI_CNT                     | 선택지점 타일의 총 POI 개수  |
| NEARTILE_POI_CNT                 | 주변 타일의 총 POI 개수  |
| TILE_INFO                        | 선택 지점 타일 정보  |
| NEARTILE_INFO                    | 주변 타일 정보 - 주변 8개 타일 정보   |
| 선택 지점 타일 정보 (TILE_POI_CNT 만큼 반복) |  |
| TILE_RID                         | 타일의 ROW id   |
| TILE_CID                         | 타일의 Column id  |
| MST_ID                           | Master POI id  |
| X                                | POI X 좌표   |
| Y                                | POI Y 좌표   |
| NAME                             | POI 명칭   |

|  |   |
|--|---|
| ADDR   | POI 주소  |
| TEL  | POI 전화번호  |
| ORG_DB_TYPE  | <p>데이터 성격필드</p> <p>MP : 일반 POI – 상세보기 가능</p> <p>TR : 대중교통정류장(버스/지하철) - GIS대중교통 API이용</p> <p>WI : Wi-Fi Zone (상세보기 없음)</p> <p>OL: 주유소 (유가정보 GIS API참조)</p> |
| <b>주변 8개 타일 정보 (NEARTILE_POI_CNT 만큼 반복)</b>  |   |
| 세부 속성은 선택 지점 타일 정보와 동일   |   |
| <b>사용 예제</b>   |   |
| <b>요청 URL</b>  |   |
| <pre>http://openapi.kt.com/maps/search/OneTouchPOI?params=%7B%22timestamp%22%3A%222012041309203376 5%22%2C%22sequenceno%22%3A%22%22%2C%22level%22%3A%2213%22%2C%22px%22%3A%22964469%2 2%2C%22py%22%3A%221945849%22%2C%22transactionid%22%3A%22%22%2C%22userid%22%3A%22%22% 2C%22screenid%22%3A%22%22%7D</pre>  |   |
| <b>결과값 예시</b>  |   |
| <pre>{"sequenceno":"9999","errordescription":null,"returncode":"1","transactionid":"e28fa383-37b2-35e6-9d73- f007a41c757d","payload": %7B%22RESULTDATA%22%3A %7B%22NEARTILE_POI_CNT%22%3A8%2C%22TILE_POI_CNT%22%3A2%2C%22LEVEL%22%3A%2213%22%2C% 22NEARTILE_INFO%22%3A%5B %7B%22MST_ID%22%3A%22MP1108011315943%22%2C%22NAME%22%3A%22%EC%98%88%EB%A6%BC%EB %AC%B8%EA%B3%A0%22%2C%22TILE_RID%22%3A%22R00003360%22%2C%22TEL%22%3A%2202-419- 4471%22%2C%22ORG_DB_TYPE%22%3A%22MP%22%2C%22Y%22%3A%221945908.38%22%2C%22ADDR%22 %3A%22%EC%84%9C%EC%9A%B8%ED%8A%B9%EB%B3%84%EC%8B%9C+%EC%86%A1%ED%8C%8C%EA%B 5%AC+%EC%9E%A0%EC%8B%A4%EB%8F%99+40- 1%22%2C%22X%22%3A%22964453.48000001%22%2C%22TILE_CID%22%3A%22C0000306b%22%7D%2C %7B%22MST_ID%22%3A%22MP1108011428735%22%2C%22NAME%22%3A%22%EC%83%A4%EB%A1%AF%EB %8D%B0%EC%94%A8%EC%96%B4%ED%84%B0%22%2C%22TILE_RID%22%3A%22R00003360%22%2C%22TEL %22%3A%2202-411- 5011%22%2C%22ORG_DB_TYPE%22%3A%22MP%22%2C%22Y%22%3A%221945868.08%22%2C%22ADDR%22 %3A%22%EC%84%9C%EC%9A%B8%ED%8A%B9%EB%B3%84%EC%8B%9C+%EC%86%A1%ED%8C%8C%EA%B 5%AC+%EC%9E%A0%EC%8B%A4%EB%8F%99+40- 1%22%2C%22X%22%3A%22964473.87%22%2C%22TILE_CID%22%3A%22C0000306b%22%7D%2C %7B%22MST_ID%22%3A%22MP1108011415954%22%2C%22NAME%22%3A%22%EB%A1%AF%EB%8D%B0%EC %9B%94%EB%93%9C%EB%AF%BC%EC%86%8D%EA%B4%80%EA%B1%B0%EB%A6%AC%28%ED%95%9C%EC %8B%9D%29%22%2C%22TILE_RID%22%3A%22R00003361%22%2C%22TEL%22%3A%2202-4475987%2C%22ORG_DB_TYPE %22%3A%22MP%22%2C%22Y%22%3A%221945829.47%22%2C%22ADDR%22%3A%22%EC%84%9C%EC%9A% B8%ED%8A%B9%EB%B3%84%EC%8B%9C+%EC%86%A1%ED%8C%8C%EA%B5%AC+%EC%9E%A0%EC%8B%A4% EB%8F%99+40- 1%22%2C%22X%22%3A%22964391.08%22%2C%22TILE_CID%22%3A%22C0000306a%22%7D%2C %7B%22MST_ID%22%3A%22MP1108011475987%22%2C%22NAME%22%3A%22%EC%84%9D%EC%B4%8C%EC %A0%95%28%ED%95%9C%EC%8B%9D%29%22%2C%22TILE_RID%22%3A%22R00003362%22%2C%22TEL%22</pre> |   |

```
%3Anull%2C%22ORG_DB_TYPE%22%3A%22MP%22%2C%22Y%22%3A%221945754.38%22%2C%22ADDR%22%
3A%22%EC%84%9C%EC%9A%B8%ED%8A%B9%EB%B3%84%EC%8B%9C+%EC%86%A1%ED%8C%8C%EA%B5
%AC+%EC%9E%A0%EC%8B%A4%EB%8F%99+40-
1%22%2C%22X%22%3A%22964425.41%22%2C%22TITLE_CID%22%3A%22C0000306a%22%7D%2C
%7B%22MST_ID%22%3A%22MP1108011418795%22%2C%22NAME%22%3A%22%ED%98%8B%EB%8B%95%EC
%A0%95%28%ED%95%9C%EC%8B%9D%29%22%2C%22TITLE_RID%22%3A%22R00003362%22%2C%22TEL%22
%3Anull%2C%22ORG_DB_TYPE%22%3A%22MP%22%2C%22Y%22%3A%221945750.38%22%2C%22ADDR%22%
3A%22%EC%84%9C%EC%9A%B8%ED%8A%B9%EB%B3%84%EC%8B%9C+%EC%86%A1%ED%8C%8C%EA%B5
%AC+%EC%9E%A0%EC%8B%A4%EB%8F%99+40-
1%22%2C%22X%22%3A%22964493%22%2C%22TITLE_CID%22%3A%22C0000306b%22%7D%2C
%7B%22MST_ID%22%3A%22MP1108011316043%22%2C%22NAME%22%3A%22%EC%8B%9C%EC%A6%90%EB
%9F%AC%EB%A1%AF%EB%8D%80%EC%9B%94%EB%93%9C%EC%A0%90%22%2C%22TITLE_RID%22%3A%22R0
0003362%22%2C%22TEL%22%3A%2202-3431-
6450%22%2C%22ORG_DB_TYPE%22%3A%22MP%22%2C%22Y%22%3A%221945766.93%22%2C%22ADDR%22
%3A%22%EC%84%9C%EC%9A%B8%ED%8A%B9%EB%B3%84%EC%8B%9C+%EC%86%A1%ED%8C%8C%EA%B
5%AC+%EC%9E%A0%EC%8B%A4%EB%8F%99+40-
1%22%2C%22X%22%3A%22964472.81%22%2C%22TITLE_CID%22%3A%22C0000306b%22%7D%2C
%7B%22MST_ID%22%3A%22MP1108011415758%22%2C%22NAME%22%3A%22%EB%A7%88%EB%A5%84%EC
%89%90%EB%A1%AF%EB%8D%80%EC%9B%94%EB%93%9C%EC%A0%90%22%2C%22TITLE_RID%22%3A%22R0
0003362%22%2C%22TEL%22%3A%22964472.81%22%2C%22ORG_DB_TYPE%22%3A%22MP%22%2C%22Y%22%3A%22194578
2.92%22%2C%22ADDR%22%3A%22%EC%84%9C%EC%9A%B8%ED%8A%B9%EB%B3%84%EC%8B%9C+%EC%8
6%A1%ED%8C%8C%EA%B5%AC+%EC%9E%A0%EC%8B%A4%EB%8F%99+40-
1%22%2C%22X%22%3A%22964526.2%22%2C%22TITLE_CID%22%3A%22C0000306c%22%7D%2C
%7B%22MST_ID%22%3A%22MP1108712110424%22%2C%22NAME%22%3A%22%EB%A1%AF%EB%8D%80%EC
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0003362%22%2C%22TEL%22%3A%22964526.2%22%2C%22ORG_DB_TYPE%22%3A%22MP%22%2C%22Y%22%3A%22194573
5.35%22%2C%22ADDR%22%3A%22%EC%84%9C%EC%9A%B8%ED%8A%B9%EB%B3%84%EC%8B%9C+%EC%8
6%A1%ED%8C%8C%EA%B5%AC+%EC%9E%A0%EC%8B%A4%EB%8F%99+40-
1%22%2C%22X%22%3A%22964545.97%22%2C%22TITLE_CID%22%3A%22C0000306c%22%7D%5D%2C%22TITLE_
INFO%22%3A%5B
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%9B%94%EB%93%9C%22%2C%22TITLE_RID%22%3A%22R00003361%22%2C%22TEL%22%3A%2202-411-
2000%22%2C%22ORG_DB_TYPE%22%3A%22MP%22%2C%22Y%22%3A%221945841.4%22%2C%22ADDR%22%
3A%22%EC%84%9C%EC%9A%B8%ED%8A%B9%EB%B3%84%EC%8B%9C+%EC%86%A1%ED%8C%8C%EA%B5
%AC+%EC%9E%A0%EC%8B%A4%EB%8F%99+40-
1%22%2C%22X%22%3A%22964494.12%22%2C%22TITLE_CID%22%3A%22C0000306b%22%7D%2C
%7B%22MST_ID%22%3A%22MP1108011407305%22%2C%22NAME%22%3A%22%EB%A1%AF%EB%8D%80%EC
%9B%94%EB%93%9C%EA%B0%80%EB%93%8A%0%EC%8A%A4%ED%85%8C%EC%9D%84%EC%A7%80%22%2C
%22TITLE_RID%22%3A%22R00003361%22%2C%22TEL%22%3A%22964494.12%22%2C%22ORG_DB_TYPE%22%3A%22MP%22%
2C%22Y%22%3A%221945815.2%22%2C%22ADDR%22%3A%22%EC%84%9C%EC%9A%B8%ED%8A%B9%EB%B
3%84%EC%8B%9C+%EC%86%A1%ED%8C%8C%EA%B5%AC+%EC%9E%A0%EC%8B%A4%EB%8F%99+40-
1%22%2C%22X%22%3A%22964468.98%22%2C%22TITLE_CID%22%3A%22C0000306b%22%7D%5D%2C%22PX%
22%3A%22964469%22%2C%22PY%22%3A%221945849%22%7D%2C%22ERRMSG%22%3A%22%22%2C%22ER
RCODE%22%3A%220%22%2C%22APIID%22%3A%22914%22%7D", "errorcode": null, "returndescription": "SUCCES
S"}
```

+++++<"payload" 값을 URL 디코딩(UTF-8)> ++++++

"

```
{"RESULTDATA": {"NEARTILE_POI_CNT": 8, "TITLE_POI_CNT": 2, "LEVEL": "13", "NEARTILE_INFO": [{"MST_ID": "MP1108011315943", "NAME": "예림문고", "TITLE_RID": "R00003360", "TEL": "02-419-
```

```

4471","ORG_DB_TYPE":"MP","Y":"1945908.38","ADDR":"서울특별시 송파구 잠실동 40-1","X":"964453.480000001","TILE_CID":"C0000306b"}, {"MST_ID":"MP1108011428735","NAME":"샤롯데씨어터","TILE RID":"R00003360","TEL":"02-411-5011","ORG_DB_TYPE":"MP","Y":"1945868.08","ADDR":"서울특별시 송파구 잠실동 40-1","X":"964473.87","TILE_CID":"C0000306b"}, {"MST_ID":"MP1108011415954","NAME":"롯데월드민속관거리(한식)","TILE RID":"R00003361","TEL":null,"ORG_DB_TYPE":"MP","Y":"1945829.47","ADDR":"서울특별시 송파구 잠실동 40-1","X":"964391.08","TILE_CID":"C0000306a"}, {"MST_ID":"MP1108011475987","NAME":"석촌정(한식)","TILE RID":"R00003362","TEL":null,"ORG_DB_TYPE":"MP","Y":"1945754.38","ADDR":"서울특별시 송파구 잠실동 40-1","X":"964425.41","TILE CID":"C0000306a"}, {"MST_ID":"MP1108011418795","NAME":"호박정(한식)","TILE RID":"R00003362","TEL":null,"ORG_DB_TYPE":"MP","Y":"1945750.38","ADDR":"서울특별시 송파구 잠실동 40-1","X":"964493","TILE CID":"C0000306b"}, {"MST_ID":"MP1108011316043","NAME":"시즐러롯데월드점","TILE RID":"R00003362","TEL":"02-3431-6450","ORG_DB_TYPE":"MP","Y":"1945766.93","ADDR":"서울특별시 송파구 잠실동 40-1","X":"964472.81","TILE CID":"C0000306b"}, {"MST_ID":"MP1108011415758","NAME":"마르쉐롯데월드점","TILE RID":"R00003362","TEL":null,"ORG_DB_TYPE":"MP","Y":"1945782.92","ADDR":"서울특별시 송파구 잠실동 40-1","X":"964526.2","TILE CID":"C0000306c"}, {"MST_ID":"MP1108712110424","NAME":"롯데월드관통육교","TILE RID":"R00003362","TEL":null,"ORG_DB_TYPE":"MP","Y":"1945735.35","ADDR":"서울특별시 송파구 잠실동 40-1","X":"964545.97","TILE CID":"C0000306c"}],"TILE_INFO": [{"MST_ID":"MP1108710675105","NAME":"롯데월드","TILE RID":"R00003361","TEL":"02-411-2000","ORG_DB_TYPE":"MP","Y":"1945841.4","ADDR":"서울특별시 송파구 잠실동 40-1","X":"964494.12","TILE CID":"C0000306b"}, {"MST_ID":"MP1108011407305","NAME":"롯데월드가든스테이지","TILE RID":"R00003361","TEL":null,"ORG_DB_TYPE":"MP","Y":"1945815.2","ADDR":"서울특별시 송파구 잠실동 40-1","X":"964468.98","TILE CID":"C0000306b"}],"PX":"964469","PY":"1945849"}, "ERRMSG":"","ERRCODE":0,"APIID":914}}

```

## 2) 테마

### A. 테마코드 기반 반경 검색

| ThemeSearch |  |
|-------------|--|
| 기본정보        | <ul style="list-style-type: none"> <li><b>기능:</b> 테마코드를 이용하여 지정한 반경 내의 테마 POI를 조회한다.</li> <li><b>방식:</b> GET/POST</li> <li><b>호출 URL:</b> <a href="http://openapi.kt.com/maps/search/ThemeSearch.format">http://openapi.kt.com/maps/search/ThemeSearch.format</a></li> </ul> |
| 요청 파라미터     |  |
| CODE        | 테마코드( <a href="#">테마코드 정의</a> 참조)  |
| X           | X좌표(UTM-K)   |
| Y           | Y좌표(UTM-K)   |
| Radius      | 반경(m 단위지정, option, 1000)   |
| COUNT       | 테마검색갯수(OPTION, 기본 10, Max 100)   |
| P           | 페이지(OPTION, 기본 0)  |
| Query       | 상세 검색 (URL인코딩 UTF-8 option 기본 null)  |

|                              |   |
|------------------------------|---|
| <i>TYPE</i>                  | 업종 검색(OPTION 기본 NULL, 업종검색 1)   |
| <b>반환값</b>                   |   |
| <b>검색결과 정보</b>               |   |
| TotalCount                   | 검색결과 총수   |
| Count                        | 현재 포함된 검색결과수  |
| <b>검색결과 리스트 (Count만큼 반복)</b> |   |
| Rank                         | 랭킹번호  |
| Uid                          |   |
| DOCID                        | 도큐먼트 번호   |
| DOC_CODE                     | 도큐먼트 코드번호   |
| NAME                         | 상호명   |
| IDX_NM                       | 색인용 상호명   |
| KWORD                        | 키워드   |
| X                            | UTM-K X좌표   |
| Y                            | UTM-K Y좌표   |
| ADDR_CODE                    | 주소맵핑용 code  |
| ADDR                         | 주소  |
| IDX_ADDR                     | 색인용 주소  |
| TEL                          | 전화번호  |
| IDX_TEL                      | 전화번호 색인용  |
| REF_TEL                      | 관련 전화 번호  |
| TEL_CNT                      | 관련전화번호 개수   |
| UJ_NAME                      | 업종명   |
| UJ_CODE                      | 업종코드  |
| UJ_CODES                     | 관련 업종 코드  |
| UJ_KWORD                     | 관련 업종 키워드   |
| THEME_NAME                   | 테마이름  |
| TEHME_CODE                   | 테마코드  |
| ORG_DB_TYPE                  | 데이터 성격필드<br>MP: 일반 POI - 상세보기 가능 (Master POI ID 이용)<br>TR : 대중교통정류장(버스/지하철) - 대중교통 API이용<br>WI : Wi-Fi Zone (상세보기 없음)<br>OL: 주유소 (그룹GIS 내 유가정보 API 조회용)<br>MV: 영화관 (맥스무비 API 조회용) |
| ORG_DB_ID                    | 위 데이터들의 DB ID   |



## B. 테마 정보 조회

| 기본정보 | <b>ThemaList</b> <ul style="list-style-type: none"><li>● 기능: 현재 제공하고 있는 테마코드 목록을 조회한다.</li><li>● 방식: GET/POST</li><li>● 호출 URL: <a href="http://openapi.kt.com/maps/search/ThemaList">http://openapi.kt.com/maps/search/ThemaList</a></li></ul> |
|------|---|
|------|---|

- 참고: 입력 파라미터가 공통서비스플랫폼에서 정의하고 있는 테마코드와 일치할 경우에만 해당 테마코드의 대분류 목록을 반환하며, 입력 파라미터가 존재하지만 공통서비스플랫폼에서 정의한 테마코드와 일치하지 않는 경우는 아무런 값도 반환하지 않는다. 전체 테마코드를 조회하려면 입력 파라미터에 값을 설정하지 않는다.

## 요청 파라미터

|           |   |
|-----------|---|
| THEMECODE | 테마코드 (검색엔진용 유무선 올레맵 공통 테마코드 참 고 ,Option ) <ol style="list-style-type: none"> <li>1. 전체 항목 검색 (값 없음)</li> <li>2. 테마코드 대분류 검색 (값 있음)</li> </ol> |
|-----------|---|

## 반환값

### 테마 리스트

|             |           |
|-------------|-----------|
| THEME_CD_MA | 테마코드 대분류  |
| MA_NAME     | 대분류명      |
| THEME_CD_MI | 테마코드 소분류  |
| MINOR_NAME  | 소분류명      |
| IS_ETC      | 기타분류코드 유무 |
| THEME_DESP  | 설명        |

## 사용 예제

### 요청 URL

```
http://openapi.kt.com/maps/search/Themalist?params=%7B%22timestamp%22%3A%2220120413092033765%
22%2C%22sequenceno%22%3A%22%22%2C%22transactionid%22%3A%22%22%2C%22themecode%22%3A%2
20100%22%2C%22userid%22%3A%22%22%2C%22screenid%22%3A%22%22%7D
```

### 결과값 예시

```
{"timestamp":"20120413092033765","sequenceno":"","transactionid":"","themecode":"0100","userid":"","screenid":"
""}
url:http://openapi.kt.com/maps/search/Themalist?params=%7B%22timestamp%22%3A%222012041309203376
5%22%2C%22sequenceno%22%3A%22%22%2C%22transactionid%22%3A%22%22%2C%22themecode%22%3A%
220100%22%2C%22userid%22%3A%22%22%2C%22screenid%22%3A%22%22%7D
{"sequenceno":"9999","errordescription":null,"returncode":"1","transactionid":"13389bbe-d1eb-345e-b3e4-
b89914b78ed4","payload":
%7B%22RESULTDATA%22%3A%5B
%7B%22THEME_DESP%22%3A%22%EB%A7%9B%EC%A7%91%22%2C%22THEME_CD_MI%22%3Anull%2C%22
MA_NAME%22%3A%22%EB%A7%9B%EC%A7%91%22%2C%22THEME_CD_MA%22%3A%220100%22%2C%22IS_
ETC%22%3A%220%22%2C%22MINOR_NAME%22%3Anull%7D%2C
%7B%22THEME_DESP%22%3A%22%EB%A7%9B%EC%A7%91%EC%A4%91%EC%9D%98+%ED%95%9C%EC%8B%
9D%22%2C%22THEME_CD_MI%22%3A%220101%22%2C%22MA_NAME%22%3A%22%EB%A7%9B%EC%A7%
91%22%2C%22THEME_CD_MA%22%3A%220100%22%2C%22IS_ETC%22%3A%220%22%2C%22MINOR_NAME%
22%3A%22%ED%95%9C%EC%8B%9D%22%7D%2C
%7B%22THEME_DESP%22%3A%22%EB%A7%9B%EC%A7%91%EC%A4%91%EC%9D%98+%EC%96%91%EC%8B%
9D%22%2C%22THEME_CD_MI%22%3A%220102%22%2C%22MA_NAME%22%3A%22%EB%A7%9B%EC%A7%
```

```

91%22%2C%22THEME_CD_MA%22%3A%220100%22%2C%22IS_ETC%22%3A%220%22%2C%22MINOR_NAME
%22%3A%22%EC%96%91%EC%8B%9D%22%7D%2C
%7B%22THEME_DESP%22%3A%22%EB%A7%9B%EC%A7%91%EC%A4%91%EC%9D%98+%EC%A4%91%EC%8B
%9D%22%2C%22THEME_CD_MI%22%3A%220103%22%2C%22MA_NAME%22%3A%22%EB%A7%9B%EC%A7%
91%22%2C%22THEME_CD_MA%22%3A%220100%22%2C%22IS_ETC%22%3A%220%22%2C%22MINOR_NAME
%22%3A%22%EC%A4%91%EC%8B%9D%22%7D%2C
%7B%22THEME_DESP%22%3A%22%EB%A7%9B%EC%A7%91%EC%A4%91%EC%9D%98+%EC%9D%BC%EC%8B
%9D%22%2C%22THEME_CD_MI%22%3A%220104%22%2C%22MA_NAME%22%3A%22%EB%A7%9B%EC%A7%
91%22%2C%22THEME_CD_MA%22%3A%220100%22%2C%22IS_ETC%22%3A%220%22%2C%22MINOR_NAME
%22%3A%22%EC%9D%BC%EC%8B%9D%22%7D%2C
%7B%22THEME_DESP%22%3A%22%EB%A7%9B%EC%A7%91%EC%A4%91%EC%9D%98+%EB%B6%84%EC%8B
%9D%22%2C%22THEME_CD_MI%22%3A%220105%22%2C%22MA_NAME%22%3A%22%EB%A7%9B%EC%A7%
91%22%2C%22THEME_CD_MA%22%3A%220100%22%2C%22IS_ETC%22%3A%220%22%2C%22MINOR_NAME
%22%3A%22%EB%B6%84%EC%8B%9D%22%7D%5D%2C%22ERRMSG%22%3A%22%22%2C%22ERRCODE%22
%3A%220%22%2C%22APIID%22%3A%22905%22%7D","errorcode":null,"returndescription":"SUCCESS"}}

+++++<"payload" 값을 URL 디코딩(UTF-8)> ++++++
"
```

{"RESULTDATA": [

{"THEME\_DESP":"맛집","THEME\_CD\_MI":null,"MA\_NAME":"맛집","THEME\_CD\_MA":"0100","IS\_ETC":"0","MINOR\_NAME":null},

{"THEME\_DESP":"맛집중의

한식","THEME\_CD\_MI":"0101","MA\_NAME":"맛집","THEME\_CD\_MA":"0100","IS\_ETC":"0","MINOR\_NAME":"한식"},

{"THEME\_DESP":"맛집중의

양식","THEME\_CD\_MI":"0102","MA\_NAME":"맛집","THEME\_CD\_MA":"0100","IS\_ETC":"0","MINOR\_NAME":"양식"},

{"THEME\_DESP":"맛집중의

중식","THEME\_CD\_MI":"0103","MA\_NAME":"맛집","THEME\_CD\_MA":"0100","IS\_ETC":"0","MINOR\_NAME":"중식"},

{"THEME\_DESP":"맛집중의

일식","THEME\_CD\_MI":"0104","MA\_NAME":"맛집","THEME\_CD\_MA":"0100","IS\_ETC":"0","MINOR\_NAME":"일식"},

{"THEME\_DESP":"맛집중의

분식","THEME\_CD\_MI":"0105","MA\_NAME":"맛집","THEME\_CD\_MA":"0100","IS\_ETC":"0","MINOR\_NAME":"분식"}],

"ERRMSG":"","ERRCODE":"0","APIID":"905"}

### C. 스페셜 테마 유형 조회

| SpThemaType |   |
|-------------|---|
| 기본정보        | <ul style="list-style-type: none"> <li>기능: 스페셜테마 유형 정보를 반환한다.</li> <li>방식: GET/POST</li> <li>호출 URL: <a href="http://openapi.kt.com/maps/search/SpThemaType.format">http://openapi.kt.com/maps/search/SpThemaType.format</a></li> <li>참고 :</li> </ul> |
| 요청 파라미터     |   |
| TAG_ID      | 스페셜 테마코드 (Option, <a href="#">스페셜테마코드정의</a> 참고) <ul style="list-style-type: none"> <li>- 전체 항목 검색 (요청 파라미터 없음)</li> <li>- 일부 항목 검색 (요청 파라미터 값 있음)</li> </ul>  |
| 반환값         |   |
| TAG_ID      | 스페셜테마 코드  |

|   |              |
|---|--------------|
| TAG_NM  | 스페셜테마명 (태그명) |
| <b>사용 예제</b>  |              |
| <b>요청 URL</b>   |              |
| http://openapi.kt.com/maps/search/SpThemaType?params=%7B%22timestamp%22%3A%222012041309203376%22%2C%22sequenceno%22%3A%22%22%2C%22transactionid%22%3A%22%22%2C%22userid%22%3A%22%2C%22screenid%22%3A%22%22%7D   |              |
| <b>결과값 예시</b>   |              |
| <pre>{"sequenceno":"9999","errordescription":null,"returncode":"1","transactionid":"879ed7bc-95ac-339a-8f1e-d3ebdac0317e","payload": %7B%22RESULTDATA%22%3A%5B %7B%22TAG_ID%22%3A%22PG1107000000001%22%2C%22TAG_NM%22%3A%22%ED%95%B4%EC%88%98%E C%9A%95%EC%9E%A5%22%7D%2C %7B%22TAG_ID%22%3A%22PG1111000000007%22%2C%22TAG_NM%22%3A%22%EC%98%AC%EB%A0%88%E B%82%B4%EB%B9%84%EC%A0%9C%EC%99%B8%ED%83%9C%EA%B7%B8%22%7D%2C %7B%22TAG_ID%22%3A%22PG1107000000004%22%2C%22TAG_NM%22%3A%22%EB%8B%99%EC%9D%BC%E C%97%AC%ED%96%89%28%EC%88%98%EB%8F%84%EA%B6%8C%29%22%7D%2C %7B%22TAG_ID%22%3A%22PG120100000008%22%2C%22TAG_NM%22%3A%22%EC%BD%9C%EB%A7%81% ED%81%AC%22%7D%2C %7B%22TAG_ID%22%3A%22PG120400000014%22%2C%22TAG_NM%22%3A%22%EA%B0%80%EC%A1%B1%E B%82%98%EB%93%A4%EC%9D%B4%22%7D%2C %7B%22TAG_ID%22%3A%22PG110700000008%22%2C%22TAG_NM%22%3A%22%EB%A7%9B%EC%A7%91%2 2%7D%2C %7B%22TAG_ID%22%3A%22PG111100000008%22%2C%22TAG_NM%22%3A%22%EC%8A%A4%ED%82%A4% EC%9E%A5%2F%EB%A6%AC%EC%A1%B0%ED%8A%B8%22%7D%2C %7B%22TAG_ID%22%3A%22PG111100000004%22%2C%22TAG_NM%22%3A%22%ED%86%B5%EC%83%81%E B%AA%85%22%7D%2C %7B%22TAG_ID%22%3A%22PG110700000007%22%2C%22TAG_NM%22%3A%22%EC%97%AC%ED%96%89%E C%A7%80%22%7D%2C %7B%22TAG_ID%22%3A%22PG110700000003%22%2C%22TAG_NM%22%3A%22%EC%82%B0%2F%EA%B3%8 4%EA%B3%A1%22%7D%2C %7B%22TAG_ID%22%3A%22PG110700000005%22%2C%22TAG_NM%22%3A%22%ED%8E%9C%EC%85%98%2 2%7D%2C %7B%22TAG_ID%22%3A%22PG110700000002%22%2C%22TAG_NM%22%3A%22%EC%BA%A0%ED%95%91% EC%9E%A5%22%7D%2C %7B%22TAG_ID%22%3A%22PG111100000010%22%2C%22TAG_NM%22%3A%22%EB%88%88%EC%8D%B0%E B%A7%A4%EC%9E%A5%22%7D%2C %7B%22TAG_ID%22%3A%22PG110700000006%22%2C%22TAG_NM%22%3A%22%EB%8F%84%EC%8B%AC%E C%97%AC%ED%96%89%28%EB%AF%B8%EC%A0%95%29%22%7D%5D%2C%22ERRMSG%22%3A%22%22%2C %22ERRCODE%22%3A%22%22%2C%22APIID%22%3A%22915%22%7D","errordescription":null,"returncode":"S UCCESS"}</pre> <p>+++++&lt;"payload" 값을 URL 디코딩(UTF-8)&gt; +++++</p> <p>"</p> <pre>{"RESULTDATA": [ {"TAG_ID":"PG1107000000001","TAG_NM":"해수욕장"},  {"TAG_ID":"PG1111000000007","TAG_NM":"올레내비제외태그"},  {"TAG_ID":"PG1107000000004","TAG_NM":"당일여행(수도권)"},</pre> |              |

```
{"TAG_ID":"PG12040000000014","TAG_NM":"가족나들이"},  
 {"TAG_ID":"PG11070000000008","TAG_NM":"맛집"},  
 {"TAG_ID":"PG11110000000008","TAG_NM":"스키장/리조트"},  
 {"TAG_ID":"PG11110000000004","TAG_NM":"통상명"},  
 {"TAG_ID":"PG11070000000007","TAG_NM":"여행지"},  
 {"TAG_ID":"PG11070000000003","TAG_NM":"산/계곡"},  
 {"TAG_ID":"PG11070000000005","TAG_NM":"펜션"},  
 {"TAG_ID":"PG11070000000002","TAG_NM":"캠핑장"},  
 {"TAG_ID":"PG11110000000010","TAG_NM":"눈썰매장"},  
 {"TAG_ID":"PG11070000000006","TAG_NM":"도심여행(미정)"}],"ERRMSG":"","ERRCODE":"0","APIID":"915"}"
```

#### D. 스페셜 테마코드 기반 반경 검색

| SpThemeSearch         |  |
|-----------------------|--|
| 기본정보                  | <ul style="list-style-type: none"> <li><b>기능:</b> 스페셜 테마코드를 이용하여 지정한 반경 내의 스페셜 테마 POI를 조회한다.</li> <li><b>방식:</b> GET/POST</li> <li><b>호출 URL:</b> <a href="http://openapi.kt.com/maps/search/SpThemeSearch.format">http://openapi.kt.com/maps/search/SpThemeSearch.format</a></li> </ul> |
| 요청 파라미터               |  |
| CODE                  | 스페셜 테마코드( <a href="#">스페셜테마코드정의</a> 참조)  |
| X                     | X좌표(UTM-K)   |
| Y                     | Y좌표(UTM-K)   |
| Radius                | 반경(m 단위지정, option, 1000)   |
| COUNT                 | 스페셜테마검색갯수(OPTION, 기본 10, Max 100)  |
| P                     | 페이지(OPTION, 기본 0)  |
| Query                 | 상세 검색 (URL인코딩 UTF-8 OPTION 기본 NULL)  |
| TYPE                  | 업종 검색(OPTION 기본 NULL, 업종검색 1)  |
| 반환값                   |  |
| 검색결과 정보               |  |
| TotalCount            | 검색결과 총수  |
| Count                 | 현재 포함된 검색결과수   |
| 검색결과 리스트 (Count만큼 반복) |  |
| Rank                  | 랭킹번호   |
| Uid                   |  |
| DOCID                 | 도큐먼트 번호  |
| DOC_CODE              | 도큐먼트 코드번호  |
| NAME                  | 상호명  |
| IDX_NM                | 색인용 상호명  |
| KWORD                 | 키워드  |

|             |   |
|-------------|---|
| X           | UTM-K X좌표   |
| Y           | UTM-K Y좌표   |
| ADDR_CODE   | 주소맵핑용 code  |
| ADDR        | 주소  |
| IDX_ADDR    | 색인용 주소  |
| TEL         | 전화번호  |
| IDX_TEL     | 전화번호 색인용  |
| REF_TEL     | 관련 전화 번호  |
| TEL_CNT     | 관련전화번호 개수   |
| UJ_NAME     | 업종명   |
| UJ_CODE     | 업종코드  |
| UJ_CODES    | 관련 업종 코드  |
| UJ_KWORD    | 관련 업종 키워드   |
| THEME_NAME  | 테마이름  |
| TEHME_CODE  | 테마코드  |
| ORG_DB_TYPE | 데이터 성격필드<br>MP: 일반 POI - 상세보기 가능 (Master POI ID 이용)<br>TR : 대중교통정류장(버스/지하철) - 대중교통 API이용<br>WI : Wi-Fi Zone (상세보기 없음)<br>OL: 주유소 (그룹GIS 내 유가정보 API 조회용)<br>MV: 영화관 (맥스무비 API 조회용) |
| ORG_DB_ID   | 위 데이터들의 DB ID   |
| DATE        | 변경날짜  |
| R_CNT       | 리뷰카운트(현재 미사용)   |
| STAR_CNT    | 별점(현재 미사용)  |
| URL         | 홈페이지 URL  |
| IMGURL      | 대표이미지 URL   |
| POI_YN      | POI 여부(1/0)   |
| POI_ID_LIST | 통상명 ID  |
| POI_LIST    | 통상명 리스트   |
| POI_KWORD   | 통상명 유의어 리스트   |
| DATASRC     | 출처 구분 코드  |
| H_CODE      | 행정동 코드  |
| B_CODE      | 법정동 코드  |
| H_ADDR      | 행정동 주소  |

|  |           |
|--|-----------|
| B_ADDR   | 법정동 주소    |
| STHEME_CODE  | 스페셜 테마 코드 |
| STHEME_INFO  | 스페셜 테마 정보 |
| <b>사용 예제</b>   |           |
| <b>요청 URL</b>  |           |
| http://openapi.kt.com/maps/search/SpThemeSearch?params=%7B%22timestamp%22%3A%2220120413092033765%22%2C%22sequenceno%22%3A%22%22%2C%22transactionid%22%3A%22%22%2C%22userid%22%3A%22%22%2C%22screenid%22%3A%22%22%2C%22code%22%3A%22PG110700000008%22%2C%22y%22%3A%221683864%22%2C%22x%22%3A%221146589%22%7D  |           |
| <b>결과값 예시</b>  |           |
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## E. 테마정보 조회 (서비스번호)

| ThemaListBySvNo        |  |
|------------------------|--|
| 기본정보                   | <ul style="list-style-type: none"> <li>기능: 현재 제공하고 있는 테마코드 목록을 서비스코드 이용 하여 조회한다.</li> <li>방식: GET/POST</li> <li>호출 URL: <a href="http://openapi.kt.com/maps/search/ThemaListBySvNo.format">openapi.kt.com/maps/search/ThemaListBySvNo.format</a></li> <li>참고: 입력 파라미터가 공통서비스플랫폼에서 정의하고 있는 테마코드와 일치할 경우에만 해당 테마코드의 대분류 목록을 반환하며, 입력 파라미터가 존재하지만 공통서비스플랫폼에서 정의한 테마코드와 일치하지 않는 경우는 아무런 값도 반환하지 않는다. 전체 테마코드를 조회하려면 입력 파라미터에 값을 설정하지 않는다.</li> </ul> |
| 요청 파라미터                |  |
| SVNO                   | 서비스 번호 (3자리 ex : 공통GW = 001, 우리동네 = 002)   |
| THEMECODE              | <p>테마코드 대분류( Option )</p> <ol style="list-style-type: none"> <li>전체 항목 검색 (값 없음)</li> <li>테마코드 대분류 검색 (값 있음)</li> </ol>  |
| 반환값                    |  |
| <a href="#">테마 리스트</a> |  |

|  |           |
|--|-----------|
| THEME_CD_MA  | 테마코드 대분류  |
| MA_NAME  | 대분류명      |
| THEME_CD_MI  | 테마코드 소분류  |
| MINOR_NAME   | 소분류명      |
| IS_ETC   | 기타분류코드 유무 |
| THEME_DESP   | 설명        |
| <b>사용 예제</b>   |           |
| <b>요청 URL</b>  |           |
| http://openapi.kt.com/maps/search/ThemaListBySvNo?params=%7B%22timestamp%22%3A%2220120413092033765%22%2C%22sequenceno%22%3A%22%22%2C%22transactionid%22%3A%22%22%2C%22userid%22%3A%22%22%2C%22screenid%22%3A%22%22%2C%22svno%22%3A%22001%22%67D  |           |
| <b>결과값 예시</b>  |           |
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### 3) 주소

#### A. 단계별 주소 조회 (법정동)

| AddrStepSearch   |   |
|--|---|
| 기본정보   | <ul style="list-style-type: none"> <li>기능: 지정한 주소 코드에 따른 단계별 주소 정보를 조회한다.</li> <li>방식: GET/POST</li> <li>호출 URL: <a href="http://openapi.kt.com/maps/search/AddrStepSearch.format">http://openapi.kt.com/maps/search/AddrStepSearch.format</a></li> </ul> |
| 요청 파라미터  |   |
| L_CODE   | <p>법정동 코드(Option)</p> <ol style="list-style-type: none"> <li>시도 주소 코드 검색(없음)</li> <li>시군구 주소 코드 검색(시도 코드 2자리)</li> <li>동명읍 주소 코드 검색(시도/시군구 코드 5자리)</li> <li>리 주소코드 검색(시도/시군구/동명읍 코드 8자리)</li> </ol>   |
| 반환값  |   |
| 법정동 코드를 입력하지 않을 경우(1. 시도 주소 코드 검색(없음))                     |   |
| L_CODE   | 법정동 코드  |
| H_CODE   | 행정동 코드  |
| P_CODE   | 파란 코드   |
| SIDO   | 법정동-시도  |
| X  | X좌표   |
| Y  | Y좌표   |
| 법정동 코드를 시도 부분만 입력할 경우(2. 시군구 주소 코드 검색(시도 코드 2자리))          |   |
| L_CODE   | 법정동 코드  |
| H_CODE   | 행정동 코드  |
| P_CODE   | 파란 코드   |
| SIDO   | 법정동-시도  |
| SIGUNGU  | 법정동-시군구   |
| X  | X좌표   |
| Y  | Y좌표   |
| 법정동 코드를 시도,시군구 부분까지 입력할 경우(3. 동명읍 주소 코드 검색(시도/시군구 코드 5자리)) |   |
| L_CODE   | 법정동 코드  |
| H_CODE   | 행정동 코드  |
| P_CODE   | 파란 코드   |

|  |         |
|--|---------|
| SIDO   | 법정동-시도  |
| SIGUNGU  | 법정동-시군구 |
| DONG   | 법정동-동면읍 |
| X  | X좌표     |
| Y  | Y좌표     |
| <b>법정동 코드를 시도,시군구,동면읍 부분까지 입력할 경우(4. 리 주소코드 검색(시도/시군구/동명읍 코드 8자리))</b>   |         |
| L_CODE   | 법정동 코드  |
| H_CODE   | 행정동 코드  |
| P_CODE   | 파란 코드   |
| SIDO   | 법정동-시도  |
| SIGUNGU  | 법정동-시군구 |
| DONG   | 법정동-동면읍 |
| LI   | 법정동-리   |
| X  | X좌표     |
| Y  | Y좌표     |
| <b>사용 예제</b>   |         |
| <b>요청 URL</b>  |         |
| http://openapi.kt.com/maps/search/AddrStepSearch?params=%7B%22timestamp%22%3A%2220120413092033765%22%2C%22sequenceno%22%3A%22%22%2C%22transactionid%22%3A%22%22%2C%22userid%22%3A%22%22%2C%22screenid%22%3A%22%22%2C%22l_Code%22%3A%2211%22%7D   |         |
| <b>결과값 예시</b>  |         |
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```
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+++++<"payload" 값을 URL 디코딩(UTF-8)> ++++++

"

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  {"SIDO": "서울특별시", "SIGUNGU": "금천구", "L_CODE": "11545", "Y": "1939910", "H_CODE": "1", "X": "946517", "P_CODE": "009000008000000"},  

  {"SIDO": "서울특별시", "SIGUNGU": "영등포구", "L_CODE": "11560", "Y": "1947622", "H_CODE": "1", "X": "946650", "P_CODE": "009000020000000"},  

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## B. 포함 주소 중심좌표 조회

| AddrPointSearch |   |
|-----------------|---|
| 기본정보            | <ul style="list-style-type: none"> <li><b>기능:</b> 지정한 주소 코드를 포함하고 있는 지역의 중심좌표를 조회한다.<br/>(검색엔진을 이용한 일종의 Geocoding에 해당하며, 코드 자리수에 따라 검색결과가 달라진다)</li> <li><b>방식:</b> GET/POST</li> <li><b>호출 URL:</b> <a href="http://openapi.kt.com/maps/search/AddrPointSearch.format">http://openapi.kt.com/maps/search/AddrPointSearch.format</a></li> </ul> |
| 요청 파라미터         |   |

|  |   |
|--|---|
| L_CODE   | 법정동 코드<br>1. 시군구 주소 코드 검색(시도 코드 2자리)<br>2. 동명읍 주소 코드 검색(시도/시군구 코드 5자리)<br>3. 리 주소코드 검색(시도/시군구/동명읍 코드 8자리) |
| MINX   | 검색 범위 X 좌표 최소값  |
| MAXX   | 검색 범위 X 좌표 최대값  |
| MINY   | 검색 범위 Y 좌표 최소값  |
| MAXY   | 검색 범위 Y 좌표 최대값  |
| <b>반환값</b>   |   |
| <b>법정동 코드를 시도 부분만 입력할 경우(1. 시군구 주소 코드 검색(시도 코드 2자리))</b>               |   |
| L_CODE   | 법정동 코드  |
| H_CODE   | 행정동 코드  |
| P_CODE   | 파란 코드   |
| SIDO   | 법정동-시도  |
| SIGUNGU  | 법정동-시군구   |
| X  | X좌표   |
| Y  | Y좌표   |
| <b>법정동 코드를 시도,시군구 부분까지 입력할 경우(2. 동명읍 주소 코드 검색(시도/시군구 코드 5자리))</b>      |   |
| L_CODE   | 법정동 코드  |
| H_CODE   | 행정동 코드  |
| P_CODE   | 파란 코드   |
| SIDO   | 법정동-시도  |
| SIGUNGU  | 법정동-시군구   |
| DONG   | 법정동-동면읍   |
| X  | X좌표   |
| Y  | Y좌표   |
| <b>법정동 코드를 시도,시군구,동면읍 부분까지 입력할 경우(3. 리 주소코드 검색(시도/시군구/동명읍 코드 8자리))</b> |   |
| L_CODE   | 법정동 코드  |
| H_CODE   | 행정동 코드  |
| P_CODE   | 파란 코드   |
| SIDO   | 법정동-시도  |
| SIGUNGU  | 법정동-시군구   |
| DONG   | 법정동-동면읍   |

|  |       |
|--|-------|
| U  | 법정동-리 |
| X  | X좌표   |
| Y  | Y좌표   |
| <b>사용 예제</b>   |       |
| <b>요청 URL</b>  |       |
| <pre>http://openapi.kt.com/maps/search/AddrPointSearch?params=%7B%22timestamp%22%3A%2220120413092033 765%22%2C%22sequenceno%22%3A%22%22%2C%22maxx%22%3A%22947000%22%2C%22maxy%22%3A%22 1947000%22%2C%22transactionid%22%3A%22%22%2C%22userid%22%3A%22%22%2C%22screenid%22%3A% 22%22%2C%22minx%22%3A%22944000%22%2C%22miny%22%3A%221938000%22%2C%22l_Code%22%3A%2 211%22%7D</pre>   |       |
| <b>결과값 예시</b>  |       |
| <pre>{"sequenceno":"9999","errordescription":null,"returncode":"1","transactionid":"183be961-f196-3ca8-b332-e02e57eee45a","payload": %7B%22RESULTDATA%22%3A%5B %7B%22SIDO%22%3A%22%EC%84%9C%EC%9A%B8%ED%8A%B9%EB%B3%84%EC%8B%9C%22%2C%22SIGU NGU%22%3A%22%EC%96%91%EC%B2%9C%EA%B5%AC%22%2C%22L_CODE%22%3A%2211470%22%2C%22 Y%22%3A%221946602%22%2C%22H_CODE%22%3A%221%22%2C%22X%22%3A%22944022%22%2C%22P_CO DE%22%3A%2200900001900000%22%7D%2C %7B%22SIDO%22%3A%22%EC%84%9C%EC%9A%B8%ED%8A%B9%EB%B3%84%EC%8B%9C%22%2C%22SIGU NGU%22%3A%22%EA%B5%AC%EB%A1%9C%EA%B5%AC%22%2C%22L_CODE%22%3A%2211530%22%2C%22 Y%22%3A%221944204%22%2C%22H_CODE%22%3A%221%22%2C%22X%22%3A%22945860%22%2C%22P_CO DE%22%3A%2200900000700000%22%7D%2C %7B%22SIDO%22%3A%22%EC%84%9C%EC%9A%B8%ED%8A%B9%EB%B3%84%EC%8B%9C%22%2C%22SIGU NGU%22%3A%22%EA%B8%88%EC%B2%9C%EA%B5%AC%22%2C%22L_CODE%22%3A%2211545%22%2C%22 Y%22%3A%221939910%22%2C%22H_CODE%22%3A%221%22%2C%22X%22%3A%22946517%22%2C%22P_CO DE%22%3A%2200900000800000%22%7D%5D%2C%22ERRMSG%22%3A%22%22%2C%22ERRCODE%22%3A% 220%22%2C%22APIID%22%3A%22907%22%7D","errorcode":null,"returndescription":"SUCCESS"}<br/> +++++&lt;"payload" 값을 URL 디코딩(UTF-8)&gt; +++++<br/> "<br/> {"RESULTDATA":[ {"SIDO":"서울특별시","SIGUNGU":"양천구","L_CODE":"11470","Y":"1946602","H_CODE":"1","X":"944022","P_CODE" :"00900001900000"},<br/> {"SIDO":"서울특별시","SIGUNGU":"구로구","L_CODE":"11530","Y":"1944204","H_CODE":"1","X":"945860","P_CODE" :"00900000700000"},<br/> {"SIDO":"서울특별시","SIGUNGU":"금천구","L_CODE":"11545","Y":"1939910","H_CODE":"1","X":"946517","P_CODE" :"00900000800000"}],"ERRMSG":"","ERRCODE":"0","APIID":"907"}</pre> |       |

### C. 지정 좌표 주소 조회 (지번 포함)

|                |   |
|----------------|---|
| 기본정보           | <b>AddrNearestPosSearch</b>   |
|                | <ul style="list-style-type: none"> <li>● <b>기능:</b> 사용자가 지정한 지점을 기준으로 특정 반경 내 가장 가까운 좌표의 주소를 조회한다. (검색엔진을 이용한 일종의 Reverse Geocoding이며, 지번검색을 수행하므로 반경 값이 1km를 초과할 경우 응답속도가 느려질 수 있다. 넓은 범위의 반경 검색을 위해서는 <b>AddrNearestPosSearch2.format</b>를 사용해야 한다)</li> <li>● <b>방식:</b> GET/POST</li> <li>● <b>호출 URL:</b><br/><a href="http://openapi.kt.com/maps/search/AddrNearestPosSearch.format">http://openapi.kt.com/maps/search/AddrNearestPosSearch.format</a></li> <li>● <b>지번의 경우 현재 테스트에는 일부 데이터만 존재하므로 결과가 리턴되지 않을수 있음</b></li> </ul> |
| <b>요청 파라미터</b> |   |
| PX             | 검색 지점 X 좌표  |
| PY             | 검색 지점 Y 좌표  |
| RADIUS         | 검색 범위 (단위: m, 최대값 : 1000)   |
| <b>반환값</b>     |   |
| <b>지번 리스트</b>  |   |
| L_CODE         | 법정동 코드  |
| H_CODE         | 행정동 코드  |
| P_CODE         | 파란 코드   |
| SIDO           | 시도  |
| L_SIGUN_GU     | 법정동-시군구   |
| L_DONG         | 법정동-동명  |
| L_리            | 법정동-리명  |
| H_SIGUN_GU     | 행정동-시군구명  |
| H_DONG         | 행정동-동명  |
| P_SIGUN        | 파란-시군   |
| P_GU           | 파란-구  |
| P_DONG         | 파란-동  |
| P_리            | 파란-리  |
| BON_BUN        | 본번  |
| BU_BUN         | 부번  |
| GIBUN          | 지번  |
| X              | X좌표   |
| Y              | Y좌표   |

|  |       |
|--|-------|
| COORDTYPE  | 좌표 체계 |
| <b>사용 예제</b>   |       |
| <b>요청 URL</b>  |       |
| http://openapi.kt.com/maps/search/AddrNearestPosSearch?params=%7B%22timestamp%22%3A%2220120413092033765%22%2C%22sequenceno%22%3A%22%22%2C%22px%22%3A%22953883%22%2C%22py%22%3A%221952396%22%2C%22transactionid%22%3A%22%22%2C%22userid%22%3A%22%22%2C%22screenid%22%3A%22%22%2C%22radius%22%3A%22100%22%7D   |       |
| <b>결과값 예시</b>  |       |
| <pre>{"sequenceno":"99999","errordescription":null,"returncode":"1","transactionid":"3a06feca-5aa9-3c2c-bdc4-9d5e3332d6d6","payload":"%7B%22RESULTDATA%22%3A%5B%7B%22BON_BUN%22%3A%22139%22%2C%22P_GU%22%3A%22%EC%A2%85%EB%A1%9C%EA%B5%AC%22%2C%22SIDO%22%3A%22%EC%84%9C%EC%9A%B8%ED%8A%B9%EB%B3%84%EC%8B%9C%22%2C%22GIBUN%22%3A%22139-8%22%2C%22P_DONG%22%3A%22%EC%84%8B%EC%A2%85%EB%A1%9C%22%2C%22L_SIGUNGU%22%3Anull%2C%22H_SIGUNGU%22%3Anull%2C%22L_DONG%22%3A%22%EC%84%8B%EC%A2%85%EB%A1%9C%22%2C%22H_DONG%22%3A%22%EC%82%AC%EC%A7%81%EB%8F%99%22%2C%22P_LI%22%3Anull%2C%22L_CODE%22%3A%22111011900%22%2C%22L_LI%22%3Anull%2C%22P_SIGUN%22%3Anull%2C%22Y%22%3A%221952397.1%22%2C%22COORDTYPE%22%3A%22UTMK%22%2C%22H_CODE%22%3A%221110530%22%2C%22X%22%3A%22953874.18%22%2C%22P_CODE%22%3A%2209000023036000%22%2C%22BU_BUN%22%3A%228%22%7D%5D%2C%22ERRMSG%22%3A%22%22%2C%22ERRCODE%22%3A%220%22%2C%22APIID%22%3A%22908%22%7D","errorcode":null,"returndescription":"SUCCESS"}+++++ &lt;"payload" 값을 URL 디코딩(UTF-8)&gt; +++++++</pre> <p>"</p> <pre>{"RESULTDATA": [{"BON_BUN": "139", "P_GU": "종로구", "SIDO": "서울특별시", "GIBUN": "139-8", "P_DONG": "세종로", "L_SIGUNGU": null, "H_SIGUNGU": null, "L_DONG": "세종로", "H_DONG": "사직동", "P_LI": null, "L_CODE": "111011900", "L_LI": null, "P_SIGUN": null, "Y": "1952397.1", "COORDTYPE": "UTMK", "H_CODE": "1110530", "X": "953874.18", "P_CODE": "009000023036000", "BU_BUN": "8"}], "ERRMSG": "", "ERRCODE": "0", "APIID": "908"}</pre> |       |

#### D. 지정 좌표 주소 조회(지번 미포함)

| AddrNearestPosSearch2 |  |
|-----------------------|--|
| 기본정보                  | <ul style="list-style-type: none"> <li><b>기능:</b> 사용자가 지정한 지점을 기준으로 특정 반경 내 가장 가까운 좌표의 주소를 조회한다. (검색엔진을 이용한 일종의 Reverse Geocoding이며, 지번검색을 하지 않으므로 반경 값이 1km 이상인 경우에도 응답속도가 느려지지 않는다.)</li> <li><b>방식:</b> GET/POST</li> <li><b>호출 URL:</b></li> </ul> |

|  |   |
|--|---|
|  | <a href="http://openapi.kt.com/maps/search/AddrNearestPosSearch2.format">http://openapi.kt.com/maps/search/AddrNearestPosSearch2.format</a> |
| <b>요청 파라미터</b>   |   |
| PX   | 검색 지점 X 좌표  |
| PY   | 검색 지점 Y 좌표  |
| DONG   | 동(법정동, 행정동) 구분 (Option, default = 법정동, 0 = 행정동)   |
| SRC_COORDTYPE  | 검색 지점의 좌표 체계 (Option, default : UTMK)<br>(Value : UTMK, TMW, TME, TMM, KAT, UTM51, UTM52, LLW, LLB)   |
| <b>반환값</b>   |   |
| <b>지번 리스트</b>  |   |
| L_CODE   | 법정동 코드  |
| H_CODE   | 행정동 코드  |
| P_CODE   | 파란 코드   |
| SIDO   | 법정동-시도  |
| SIGUNGU  | 법정동-시군구   |
| DONG   | 법정동-동면읍   |
| LI   | 법정동-리   |
| X  | X좌표   |
| Y  | Y좌표   |
| COORDTYPE  | 좌표 체계   |
| <b>사용 예제</b>   |   |
| <b>요청 URL</b>  |   |
| http://openapi.kt.com/maps/search/AddrNearestPosSearch2?params=%7B%22timestamp%22%3A%2220120413092033765%22%2C%22sequenceno%22%3A%22%22%2C%22px%22%3A%22955334%22%2C%22py%22%3A%221946790%22%2C%22transactionid%22%3A%22%22%2C%22userid%22%3A%22%22%2C%22screenid%22%3A%22%22%7D   |   |
| <b>결과값 예시</b>  |   |
| <pre>{"sequenceno":"9999","errordescription":null,"returncode":"1","transactionid":"6a73854f-6982-32c1-8893-86326b6e3f12","payload":%7B%22RESULTDATA%22%3A%5B%7B%22SIDO%22%3A%22%EC%84%9C%EC%9A%B8%ED%8A%B9%EB%B3%84%EC%8B%9C%22%2C%22SIGUNGU%22%3A%22%EC%9A%A9%EC%82%80%EA%B5%AC%22%2C%22LI%22%3A%22%22%2C%22L_CODE%22%3A%221117013300%22%2C%22DONG%22%3A%22%EC%84%9C%EB%B9%99%EA%B3%A0%EB%8F%99%22%2C%22Y%22%3A1946790%2C%22COORDTYPE%22%3A%22UTMK%22%2C%22H_CODE%22%3A%221%22%2C%22X%22%3A955334%2C%22P_CODE%22%3A%221%22%7D%5D%2C%22ERRMSG%22%3A%22%22%2C%22ERRCODE%22%3A%220%22%2C%22APIID%22%3A%22909%22%7D","errorcode":null,"returndescription":"SUCCESS"}</pre> <p>+++++ &lt;"payload" 값을 URL 디코딩(UTF-8)&gt; ++++++</p> |   |

```

"
{"RESULTDATA":[
{"SIDO":"서울특별시","SIGUNGU":"용산구","LI":"","L_CODE":"1117013300","DONG":"서빙고동","Y":1946790,"COORDTYPE":"UTMK","H_CODE":"1","X":955334,"P_CODE":"1"}, {"ERRMSG":"","ERRCODE":"0","APIID":"909"}]
}

```

## II. 스페셜 DB API

### 1) POI

#### A. POI 명칭 + 영역(Rectangle) 조회

| GetPoiWithinRectangle |   |
|-----------------------|---|
| 기본정보                  | <ul style="list-style-type: none"> <li>기능: POI 명칭 또는 초성과 사각형을 표현하는 영역 정보로 영역내에 위치하는 POI를 조회 하는 기능</li> <li>방식: GET/POST</li> <li>호출 URL: <a href="http://openapi.kt.com/maps/search/GetThemePoiWithinRectangle">http://openapi.kt.com/maps/search/GetThemePoiWithinRectangle</a></li> </ul> |
| 요청 파라미터               |   |
| name                  | POI명칭 (2자 이상, UTF-8 URL인코딩)   |
| minx                  | 사각형의 왼쪽 하단의 X좌표(UTM-K)<br>사각형의 넓이는 100(km <sup>2</sup> ) 제한   |
| miny                  | 사각형의 왼쪽 하단의 Y좌표(UTM-K)<br>사각형의 넓이는 100(km <sup>2</sup> ) 제한   |
| maxx                  | 사각형의 오른쪽 상단의 X좌표(UTM-K)<br>사각형의 넓이는 100(km <sup>2</sup> ) 제한  |
| maxy                  | 사각형의 오른쪽 상단의 Y좌표(UTM-K)<br>사각형의 넓이는 100(km <sup>2</sup> ) 제한  |
| sort                  | 정렬방법(option) 0:명칭(default) 1:거리순  |
| resultCnt             | 조회결과수(option, default:10)   |
| p                     | 페이지 번호(option, default:0)   |
| x                     | 중심X좌표(option, UTM-K)  |
| y                     | 중심Y좌표(option, UTM-K)  |
| timestamp             | "yyyyMMddHHmmssSSS" 포맷의 요청 시간   |
| 반환값                   |   |
| 주소검색 결과               |   |
| TOTALCOUNT            | 검색결과 총수   |
| COUNT                 | 현재 포함된 검색결과수  |
| 결과 리스트                |   |



A%22%EC%A0%95%EC%B9%98%2F%EC%82%AC%ED%9A%8C%EA%B8%B0%EA%B4%80%3B%EC%82%AC%ED%9A%8C%3B%EC%82%AC%ED%9A%8C%EB%8B%A8%EC%B2%B4%22%2C%22SIDO%22%3A%22%EC%9D%B8%EC%B2%9C%EA%B4%91%EC%97%AD%EC%8B%9C%22%2C%22BADM%22%3A%222823710100%22%2C%22ROAD\_NM%22%3A%22%22%2C%22TEL%22%3A%220325280426%22%2C%22Y%22%3A1943561%2C%22BD\_N%22%3A%22%22%2C%22X%22%3A931507%7D%2C%7B%22SGG%22%3A%22%EB%B6%80%ED%8F%89%EA%B5%AC%22%2C%22DISTANCE%22%3A%2222684%22%2C%22NAME%22%3A%22KT%26G%EB%B3%B5%EC%A7%80%EC%9E%AC%EB%8B%A8%EC%9D%B8%EC%29C%EB%B3%B5%EC%A7%80%EC%84%BC%ED%84%B0%22%2C%22HADM%22%3A%2228237560%22%2C%22POI\_CODE%22%3A%22325101000%22%2C%22ID\_POI%22%3A%22MP1111K00369187%22%2C%22THEME\_CODE%22%3A%22+++%22%2C%22BEONJI%22%3A%22693-3%22%2C%22DONG%22%3A%22%EB%B6%80%ED%8F%89%EB%8F%99%22%2C%22POI\_CODE\_NAME%22%3A%22%EC%A0%95%EC%B9%98%2F%EC%82%AC%ED%9A%8C%EA%B8%B0%EA%B4%80%3B%EC%82%AC%ED%9A%8C%3B%EC%82%AC%ED%9A%8C%EB%8B%A8%EC%B2%B4%22%2C%22SIDO%22%3A%22%EC%9D%B8%EC%B2%9C%EA%B4%91%EC%97%AD%EC%8B%9C%22%2C%22BADM%22%3A%222823710100%22%2C%22ROAD\_NM%22%3A%22%22%2C%22TEL%22%3A%220325280431%22%2C%22Y%22%3A1943558%2C%22BD\_N%22%3A%22%22%2C%22X%22%3A931508%7D%5D%7D%2C%22ID%22%3A%22101%22%2C%22ERRCD%22%3A0%2C%22NO%22%3A%224073ca65-ad1b-3481-97f3-2b446f9ebf74%22%2C%22ERRMS%22%3A%22SUCCESS%22%7D","errorcode":null,"returndescription":"SUCCESS"}

++++++<"payload" 값을 URL 디코딩(UTF-8)> +++++++

11

```
{"RESDATA": [{"TOTALCOUNT":2,"COUNT":2,"POI": [{"SGG":"부평구","DISTANCE":"22684","NAME":"KT&G 복지재단","HADM":"28237560","POI_CODE":"325101000","ID_POI":"MP1108028050334","THEME_CODE":"","BEONJI":"693-3","DONG":"부평동","POI_CODE_NAME":"정치/사회기관;사회;사회단체","SIDO":"인천광역시","BADM":"2823710100","ROAD_NM":"","TEL":"0325280426","Y":1943561,"BD_NO":"","X":931507}, {"SGG":"부평구","DISTANCE":"22684","NAME":"KT&G 복지재단인천복지센터","HADM":"28237560","POI_CODE":"325101000","ID_POI":"MP1111K00369187","THEME_CODE":"","BEONJI":"693-3","DONG":"부평동","POI_CODE_NAME":"정치/사회기관;사회;사회단체","SIDO":"인천광역시","BADM":"2823710100","ROAD_NM":"","TEL":"0325280431","Y":1943558,"BD_NO":"","X":931508}]},"ID":"101","ERRCD":0,"NO":"4073ca65-ad1b-3481-97f3-2b446f9ebf74","ERRMS":"SUCCESS"}]
```

#### B. POI 명칭 + 영역(Polygon) 조회

| 기본정보 | GetPoiWithinPolygon   |
|------|---|
|      | <ul style="list-style-type: none"><li>● 기능: POI 명칭 또는 초성과 다각형을 표현하는 영역 정보로 영역내에 위치하는 POI를 조회하는 기능</li></ul> |

|                                |   |
|--------------------------------|---|
|                                | <ul style="list-style-type: none"> <li>방식: GET/POST</li> <li>호출 URL: <a href="http://openapi.kt.com/maps/search/GetPoiWithinPolygon">http://openapi.kt.com/maps/search/GetPoiWithinPolygon</a></li> </ul> |
| <b>요청 파라미터</b>                 |   |
| name                           | POI명칭 (2자 이상, UTF-8 URL인코딩)   |
| polygon                        | 다각형좌표값들(UTM-K, UTK-8 URL인코딩)<br>영역의 넓이는 100(km <sup>2</sup> ) 제한<br>(933496 1955332,956277 1955198,955741 1947292,933496<br>1955332,933496 1955332, 933496 1955332 ) <b>마지막점은 반드시 첫번째 좌표 추가</b>           |
| sort                           | 정렬방법(option) 0:명칭(default) 1:거리순  |
| resultcnt                      | 조회결과수(option, default:10)   |
| p                              | 페이지 번호(option, default:0)   |
| x                              | 중심X좌표(option, UTM-K)  |
| y                              | 중심Y좌표(option, UTM-K)  |
| timestamp                      | "yyyyMMddHHmmssSSS" 포맷의 요청 시간   |
| <b>반환값</b>                     |   |
| 주소검색 결과 영역(addr)               |   |
| TOTALCOUNT                     | 검색결과 총수   |
| COUNT                          | 현재 포함된 검색결과수  |
| <b>POI 리스트 (Count 개수만큼 반복)</b> |   |
| SGG                            | 시군구   |
| DISTANCE                       | 중심좌표로부터 거리  |
| NAME                           | POI 명칭  |
| HADM                           | 행정동 코드  |
| POI_CODE                       | 카테고리 코드   |
| ID_POI                         | POI 고유 번호   |
| THEME_CODE                     | 테마코드  |
| BEONJI                         | 번지  |
| DONG                           | 동면읍   |
| POI_CODE_NAME                  | 카테고리명   |
| SIDO                           | 시도  |
| BADM                           | 법정동 코드  |
| ROAD_NM                        | 새주소 거리명   |
| TEL                            | 전화번호  |
| Y                              | Y좌표(UTM-K)  |

|  |            |
|--|------------|
| BD_NO  | 새주소 건물번호   |
| X  | X좌표(UTM-K) |
| <b>사용 예제</b>   |            |
| <b>요청 URL</b>  |            |
| <pre>http://openapi.kt.com/maps/search/GetPoiWithinPolygon?params=%7B%22polygon%22%3A%22%28952667+1950763%2C953907+1950067%2C953627+1948811%2C952307+1949307%2C952667+1950763%29%22%2C%22timestamp%22%3A%2220120413092033765%22%2C%22sequenceno%22%3A%22%22%2C%22name%22%3A%22%2C%22transactionid%22%3A%22%22%2C%22userid%22%3A%22%22%2C%22screenid%22%3A%22%2C%22y%22%3A%221950107%22%2C%22x%22%3A%22953226%22%7D</pre>   |            |
| <b>결과값 예시</b>  |            |
| <pre>{"sequenceno":"9999","errordescription":null,"returncode":"1","transactionid":"ec9a18ea-8b23-35a1-9144-29ccd2a07443","payload": "%7B%22RESDATA%22%3A%7B%22TOTALCOUNT%22%3A1%2C%22COUNT%22%3A1%2C%22POI%22%3A%5B%7B%22SGG%22%3A%22%EC%9A%A9%EC%82%B0%EA%B5%AC%22%2C%22DISTANCE%22%3A%22417%22%2C%22NAME%22%3A%22KT%EA%B8%88%ED%98%B8%EB%A0%8C%ED%84%B0%EC%B9%B4%EC%84%9C%EC%9A%B8%EC%97%AD%EC%A7%80%EC%A0%90%22%2C%22HADM%22%3A%2211170555%22%2C%22POI_CODE%22%3A%22721508000%22%2C%22ID_POI%22%3A%22MP1108011048556%22%2C%22THEME_CODE%22%3A%22++%22%2C%22BEONJI%22%3A%2247-3%22%2C%22DONG%22%3A%22%EC%84%9C%EA%B3%84%EB%8F%99%22%2C%22POI_CODE_NAME%22%3A%22%EC%9E%90%EB%8F%99%EC%B0%A8%3B%EB%A0%8C%ED%84%B0%EC%B9%B4%3BKT%EA%B8%88%ED%98%B8%EB%A0%8C%ED%84%B0%EC%B9%B4%22%2C%22SIDO%22%3A%22%EC%84%9C%EC%9A%B8%ED%8A%B9%EB%B3%84%EC%8B%9C%22%2C%22BADM%22%3A%221117010800%22%2C%22ROAD_NM%22%3A%22%22%2C%22TEL%22%3A%22027150010%22%2C%22Y%22%3A1950480%2C%22BD_NO%22%3A%22%2C%22X%22%3A953039%7D%5D%7D%2C%22ID%22%3A%22102%22%2C%22ERRCD%22%3A0%2C%22NO%22%3A%22ec9a18ea-8b23-35a1-9144-29ccd2a07443%22%2C%22ERRMS%22%3A%22SUCCESS%22%7D","errorcode":null,"returndescription":"SUCSES S"}</pre> <p style="text-align: center;">+++++&lt;"payload"&gt; 값을 URL 디코딩(UTF-8)&lt;-----&gt; ++++++</p> <p>"</p> <pre>{"RESDATA": {"TOTALCOUNT":1,"COUNT":1,"POI": [{"SGG":"용산구","DISTANCE":"417","NAME":"KT 금호렌터카서울역지점","HADM":"11170555","POI_CODE":"721508000","ID_POI":"MP1108011048556","THEME_CODE": "", "BEONJI":"47-3","DONG":"서계동","POI_CODE_NAME":"자동차·렌터카;KT 금호렌터카","SIDO":"서울특별시","BADM":"1117010800","ROAD_NM":"","TEL":"027150010","Y":1950480,"BD_NO": "", "X":953039}], "ID": "102", "ERRCD": 0, "NO": "ec9a18ea-8b23-35a1-9144-29ccd2a07443", "ERRMS": "SUCCESS"}}</pre> |            |

|  |
|--|
|  |
|--|

### C. POI 명칭 + 반경 조회

| 기본정보                    | GetPoiWithinCircle  |
|-------------------------|---|
|                         | ● 기능: POI 명칭 또는 초성과 중심좌표 반경값(m)안의 POI 조회 기능   |
|                         | ● 방식: GET/POST  |
|                         | ● 호출 URL: <a href="http://openapi.kt.com/maps/search/GetPoiWithinPolygon">http://openapi.kt.com/maps/search/GetPoiWithinPolygon</a> |
| 요청 파라미터                 |   |
| name                    | POI명칭 (option, 2자 이상, UTF-8 URL인코딩)   |
| x                       | 중심X좌표(UTM-K)  |
| y                       | 중심Y좌표(UTM-K)  |
| radius                  | 반경(Min=1, Max = 10000, 단위 = meter) 10km 제한  |
| sort                    | 정렬방법(option) 0:명칭(default) 1:거리순  |
| resultcnt               | 조회결과수(option, default:10)   |
| p                       | 페이지 번호(option, default:0)   |
| timestamp               | "yyyyMMddHHmmssSSS" 포맷의 요청 시간   |
| 반환값                     |   |
| 주소검색 결과 영역(addr)        |   |
| TOTALCOUNT              | 검색결과 총수   |
| COUNT                   | 현재 포함된 검색결과수  |
| POI 리스트 (Count 개수만큼 반복) |   |
| SGG                     | 시군구   |
| DISTANCE                | 중심좌표로부터 거리  |
| NAME                    | POI 명칭  |
| HADM                    | 행정동 코드  |
| POI_CODE                | 카테고리 코드   |
| ID_POI                  | POI 고유 번호   |
| THEME_CODE              | 테마코드  |
| BEONJI                  | 번지  |
| DONG                    | 동면읍   |
| POI_CODE_NAME           | 카테고리명   |
| SIDO                    | 시도  |
| BADM                    | 법정동 코드  |
| ROAD_NM                 | 새주소 거리명   |
| TEL                     | 전화번호  |

|   |            |
|---|------------|
| Y   | Y좌표(UTM-K) |
| BD_NO   | 새주소 건물번호   |
| X   | X좌표(UTM-K) |
| <b>사용 예제</b>  |            |
| <b>요청 URL</b>   |            |
| <pre>http://openapi.kt.com/maps/search/GetPoiWithinCircle?params=%7B%22timestamp%22%3A%22201204130920 33765%22%2C%22sequenceno%22%3A%22%22%2C%22resultcnt%22%3A%2210%22%2C%22sort%22%3A%22 0%22%2C%22p%22%3A%220%22%2C%22name%22%3A%22%25EB%25B6%2580%25ED%258F%2589%22%2C %22transactionid%22%3A%22%22%2C%22userid%22%3A%22%22%2C%22screenid%22%3A%22%22%2C%22r adius%22%3A%22500%22%2C%22y%22%3A%221941578%22%2C%22x%22%3A%22928054%22%7D</pre>   |            |
| <b>결과값 예시</b>   |            |
| <pre>{"sequenceno":"9999","errordescription":null,"returncode":"1","transactionid":"8265766e-7391-3dfe-aff2- 54599a443566","payload":" %7B%22RESDATA%22%3A %7B%22TOTALCOUNT%22%3A1%2C%22COUNT%22%3A1%2C%22POI%22%3A%5B %7B%22SGG%22%3A%22%EB%B6%80%ED%8F%89%EA%B5%AC%22%2C%22DISTANCE%22%3A%22477%22% 2C%22NAME%22%3A%22%EB%B6%80%ED%8F%89%EA%B3%B5%EB%93%9C%EB%9F%BC%22%2C%22HADM %22%3A%2228237680%22%2C%22POI_CODE%22%3A%22952055160%22%2C%22ID_POI%22%3A%22MP1108 028052249%22%2C%22THEME_CODE%22%3A%22++%22%2C%22BEONJI%22%3A%22535%22%2C%22DO NG%22%3A%22%EC%8B%AD%EC%A0%95%EB%8F%99%22%2C%22POI_CODE_NAME%22%3A%22%EC%82%8 0%EC%97%85%2F%EB%86%8D%EC%B6%95%EC%88%98%EC%82%80%2F%EC%9E%84%EA%B4%91%EC%97% 85%3B%EC%A0%9C%EC%A1%80%EC%97%85%3B%EA%B8%88%EC%86%8D%2F%EC%A0%9C%EC%B2%A0%2 2%2C%22SIDO%22%3A%22%EC%9D%8B%EC%B2%9C%EA%B4%91%EC%97%AD%EC%8B%9C%22%2C%22BA DM%22%3A%222823710200%22%2C%22ROAD_NM%22%3A%22%22%2C%22TEL%22%3A%220324220404%22 %2C%22Y%22%3A1941686%2C%22BD_NO%22%3A%22%22%3A%228265766e-7391-3dfe-aff2- 54599a443566%22%2C%22ERRMS%22%3A%22SUCCESS%22%7D","errorcode":null,"returndescription":"SUCCE S"}}  +++++&lt;"payload" 값을 URL 디코딩(UTF-8)&gt; +++++  " {"RESDATA": {"TOTALCOUNT":1,"COUNT":1,"POI":[ {"SGG":"부평구","DISTANCE":"477","NAME":"부평공드럼","HADM":"28237680","POI_CODE":"952055160","ID_POI": "MP1108028052249","THEME_CODE":", "BEONJI":535,"DONG":"십정동","POI_CODE_NAME":"산업/농축수산/임광업;제조업;금속/제철","SIDO":"인천광 역시","BADM":"2823710200","ROAD_NM":,"TEL":"0324220404","Y":1941686,"BD_NO":,"X":928519}}],"ID":104"</pre> |            |

```
, "ERRCD":0,"NO":"8265766e-7391-3dfe-aff2-54599a443566","ERRMS":"SUCCESS"}
```

## D. 가장 가까운 POI 명칭 조회

| GetPoiWithinNearArea    |  |
|-------------------------|--|
| 기본정보                    | <ul style="list-style-type: none"> <li>기능: 중심좌표에서 가장 가까운 POI 또는 초성 조회 기능</li> <li>방식: GET/POST</li> <li>호출 URL: <a href="http://openapi.kt.com/maps/search/GetPoiWithinNearArea">http://openapi.kt.com/maps/search/GetPoiWithinNearArea</a></li> </ul> |
| 요청 파라미터                 |  |
| name                    | POI명칭 (2자 이상, UTF-8 URL인코딩)  |
| x                       | 중심X좌표(UTM-K)   |
| y                       | 중심Y좌표(UTM-K)   |
| resultcnt               | 조회결과수(option, default:10)  |
| timestamp               | "yyyyMMddHHmmssSSS" 포맷의 요청 시간  |
| 반환값                     |  |
| 주소검색 결과 영역(addr)        |  |
| TOTALCOUNT              | 검색결과 총수  |
| COUNT                   | 현재 포함된 검색결과수   |
| POI 리스트 (Count 개수만큼 반복) |  |
| SGG                     | 시군구  |
| DISTANCE                | 중심좌표로부터 거리   |
| NAME                    | POI 명칭   |
| HADM                    | 행정동 코드   |
| POI_CODE                | 카테고리 코드  |
| ID_POI                  | POI 고유 번호  |
| THEME_CODE              | 테마코드   |
| BEONJI                  | 번지   |
| DONG                    | 동 면읍   |
| POI_CODE_NAME           | 카테고리명  |
| SIDO                    | 시도   |
| BADM                    | 법정동 코드   |
| ROAD_NM                 | 새주소 거리명  |
| TEL                     | 전화번호   |
| Y                       | Y좌표(UTM-K)   |
| BD_NO                   | 새주소 건물번호   |

|  |            |
|--|------------|
| X  | X좌표(UTM-K) |
| <b>사용 예제</b>   |            |
| <b>요청 URL</b>  |            |
| http://openapi.kt.com/maps/search/GetPoiWithinNearArea?params=%7B%22timestamp%22%3A%2220120413092033765%22%2C%22sequenceno%22%3A%22%22%2C%22name%22%3A%22%25EC%25A0%2584%25ED%2599%2594%22%2C%22transactionid%22%3A%22%22%2C%22userid%22%3A%22%22%2C%22screenid%22%3A%22%22%2C%22y%22%3A%221945766%22%2C%22x%22%3A%22948417%22%7D  |            |
| <b>결과값 예시</b>  |            |
| <pre>{"sequenceno":"9999","errordescription":null,"returncode":"1","transactionid":"c5ec0093-fc76-3800-ad9d-62b19b22ce87","payload": "%7B%22RESDATA%22%3A %7B%22TOTALCOUNT%22%3A10%2C%22COUNT%22%3A10%2C%22POI%22%3A%5B %7B%22SGG%22%3A%22%EA%B4%80%EC%95%85%EA%B5%AC%22%2C%22DISTANCE%22%3A%223293%22 %2C%22NAME%22%3A%22%EC%A0%84%ED%99%94%EA%B3%B5%EC%82%AC%EA%B0%95%EB%82%A8%ED %8E%B8%22%2C%22HADM%22%3A%2211620645%22%2C%22POI_CODE%22%3A%22921201540%22%2C%22 ID_POI%22%3A%22MP1108011240444%22%2C%22THEME_CODE%22%3A%22++%22%2C%22BEONJI%22% 3A%2210- 397%22%2C%22DONG%22%3A%22%EC%8B%A0%EB%A6%BC%EB%8F%99%22%2C%22POI_CODE_NAME%22 %3A%22%EB%8F%84%EB%A7%A4%2F%EC%86%8C%EB%A7%A4%2F%EC%84%9C%EB%B9%84%EC%8A%A4% 3B%EC%84%9C%EB%B9%84%EC%8A%A4%EC%97%85%3B%EC%A0%84%EB%AC%B8%EB%B0%8F%EA%B4%91 %ED%95%99%EA%B8%B0%EA%B8%B0%22%2C%22SIDO%22%3A%22%EC%84%9C%EC%9A%B8%ED%8A%B9 %EB%B3%84%EC%8B%9C%22%2C%22BADM%22%3A%221162010200%22%2C%22ROAD_NM%22%3A%22% 2%2C%22TEL%22%3A%22028723154%22%2C%22Y%22%3A1942917%2C%22BD_NO%22%3A%22%22%2C%22 X%22%3A950069%7D%2C %7B%22SGG%22%3A%22%EA%B4%80%EC%95%85%EA%B5%AC%22%2C%22DISTANCE%22%3A%223428%22 %2C%22NAME%22%3A%22%EC%A0%84%ED%99%94%EA%B3%B5%EC%82%AC%22%2C%22HADM%22%3A% 2211620725%22%2C%22POI_CODE%22%3A%22929101000%22%2C%22ID_POI%22%3A%22MP1108011244467 %22%2C%22THEME_CODE%22%3A%22++%22%2C%22BEONJI%22%3A%221668- 10%22%2C%22DONG%22%3A%22%EC%8B%A0%EB%A6%BC%EB%8F%99%22%2C%22POI_CODE_NAME%22% 3A%22%EB%8F%84%EB%A7%A4%2F%EC%86%8C%EB%A7%A4%2F%EC%84%9C%EB%B9%84%EC%8A%A4%3B %EB%8F%84%EC%86%8C%EB%A7%A4%3B%EB%8F%84%EC%86%8C%EB%A7%A4+%EA%B8%B0%ED%83%80 %22%2C%22SIDO%22%3A%22%EC%84%9C%EC%9A%B8%ED%8A%B9%EB%B3%84%EC%8B%9C%22%2C%22B ADM%22%3A%221162010200%22%2C%22ROAD_NM%22%3A%22%22%2C%22TEL%22%3A%22028668866%2 2%2C%22Y%22%3A1942524%2C%22BD_NO%22%3A%22%22%2C%22X%22%3A947303%7D%2C %7B%22SGG%22%3A%22%EC%98%81%EB%93%B1%ED%8F%AC%EA%B5%AC%22%2C%22DISTANCE%22%3A %223994%22%2C%22NAME%22%3A%22%EC%A0%84%ED%99%94%EB%B9%84%EC%84%9C%22%2C%22HAD M%22%3A%221156020%22%2C%22POI_CODE%22%3A%22921209060%22%2C%22ID_POI%22%3A%22MP11 08011223696%22%2C%22THEME_CODE%22%3A%22++%22%2C%22BEONJI%22%3A%2276%22%2C%22DO NG%22%3A%22%EC%96%91%ED%8F%89%EB%8F%995%EA%B0%80%22%2C%22POI_CODE_NAME%22%3A% 22%EB%8F%84%EB%A7%A4%2F%EC%86%8C%EB%A7%A4%2F%EC%84%9C%EB%B9%84%EC%8A%A4%3B%EC</pre> |            |

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## E. POI 명칭 + 경로 조회

| 기본정보  | GetPoiAlongPath  |      |                             |            |   |      |                                  |           |                           |   |                           |      |   |     |   |   |                      |   |                      |           |                               |
|---|--|------|-----------------------------|------------|---|------|----------------------------------|-----------|---------------------------|---|---------------------------|------|---|-----|---|---|----------------------|---|----------------------|-----------|-------------------------------|
|   | <ul style="list-style-type: none"> <li>기능: 경로상에서 POI 또는 초성 조회 기능</li> <li>방식: GET/POST</li> <li>호출 URL: <a href="http://openapi.kt.com/maps/search/GetPoiAlongPath">http://openapi.kt.com/maps/search/GetPoiAlongPath</a></li> </ul> |      |                             |            |   |      |                                  |           |                           |   |                           |      |   |     |   |   |                      |   |                      |           |                               |
|   | 요청 파라미터  |      |                             |            |   |      |                                  |           |                           |   |                           |      |   |     |   |   |                      |   |                      |           |                               |
| <table border="1"> <tr> <td>name</td><td>POI명칭 (2자 이상, UTF-8 URL인코딩)</td></tr> <tr> <td>linestring</td><td>경로 좌표들(UTM-K, UTF-8 URL인코딩)<br/>20km로 제한</td></tr> <tr> <td>sort</td><td>정렬방법(option) 0:명칭(default) 1:거리순</td></tr> <tr> <td>resultcnt</td><td>조회결과수(option, default:10)</td></tr> <tr> <td>p</td><td>페이지 번호(option, default:0)</td></tr> <tr> <td>side</td><td>검색할면(Option, default:0) 0:오른쪽 1:왼쪽 2:둘다</td></tr> <tr> <td>dis</td><td>lineString으로부터 검색거리 단위:m (option, default : 10)</td></tr> <tr> <td>x</td><td>중심X좌표(Option, UTM-K)</td></tr> <tr> <td>y</td><td>중심Y좌표(Option, UTM-K)</td></tr> <tr> <td>timestamp</td><td>"yyyyMMddHHmmssSSS" 포맷의 요청 시간</td></tr> </table> |  | name | POI명칭 (2자 이상, UTF-8 URL인코딩) | linestring | 경로 좌표들(UTM-K, UTF-8 URL인코딩)<br>20km로 제한 | sort | 정렬방법(option) 0:명칭(default) 1:거리순 | resultcnt | 조회결과수(option, default:10) | p | 페이지 번호(option, default:0) | side | 검색할면(Option, default:0) 0:오른쪽 1:왼쪽 2:둘다 | dis | lineString으로부터 검색거리 단위:m (option, default : 10) | x | 중심X좌표(Option, UTM-K) | y | 중심Y좌표(Option, UTM-K) | timestamp | "yyyyMMddHHmmssSSS" 포맷의 요청 시간 |
| name  | POI명칭 (2자 이상, UTF-8 URL인코딩)  |      |                             |            |   |      |                                  |           |                           |   |                           |      |   |     |   |   |                      |   |                      |           |                               |
| linestring  | 경로 좌표들(UTM-K, UTF-8 URL인코딩)<br>20km로 제한  |      |                             |            |   |      |                                  |           |                           |   |                           |      |   |     |   |   |                      |   |                      |           |                               |
| sort  | 정렬방법(option) 0:명칭(default) 1:거리순   |      |                             |            |   |      |                                  |           |                           |   |                           |      |   |     |   |   |                      |   |                      |           |                               |
| resultcnt   | 조회결과수(option, default:10)  |      |                             |            |   |      |                                  |           |                           |   |                           |      |   |     |   |   |                      |   |                      |           |                               |
| p   | 페이지 번호(option, default:0)  |      |                             |            |   |      |                                  |           |                           |   |                           |      |   |     |   |   |                      |   |                      |           |                               |
| side  | 검색할면(Option, default:0) 0:오른쪽 1:왼쪽 2:둘다  |      |                             |            |   |      |                                  |           |                           |   |                           |      |   |     |   |   |                      |   |                      |           |                               |
| dis   | lineString으로부터 검색거리 단위:m (option, default : 10)  |      |                             |            |   |      |                                  |           |                           |   |                           |      |   |     |   |   |                      |   |                      |           |                               |
| x   | 중심X좌표(Option, UTM-K)   |      |                             |            |   |      |                                  |           |                           |   |                           |      |   |     |   |   |                      |   |                      |           |                               |
| y   | 중심Y좌표(Option, UTM-K)   |      |                             |            |   |      |                                  |           |                           |   |                           |      |   |     |   |   |                      |   |                      |           |                               |
| timestamp   | "yyyyMMddHHmmssSSS" 포맷의 요청 시간  |      |                             |            |   |      |                                  |           |                           |   |                           |      |   |     |   |   |                      |   |                      |           |                               |

| <b>반환값</b>  |              |
|---|--------------|
| <b>주소검색 결과 영역(addr)</b>   |              |
| TOTALCOUNT  | 검색결과 총수      |
| COUNT   | 현재 포함된 검색결과수 |
| <b>POI 리스트 (Count 개수만큼 반복)</b>  |              |
| SGG   | 시군구          |
| DISTANCE  | 중심좌표로부터 거리   |
| NAME  | POI 명칭       |
| HADM  | 행정동 코드       |
| POI_CODE  | 카테고리 코드      |
| ID_POI  | POI 고유 번호    |
| THEME_CODE  | 테마코드         |
| BEONJI  | 번지           |
| DONG  | 동면읍          |
| POI_CODE_NAME   | 카테고리명        |
| SIDO  | 시도           |
| BADM  | 법정동 코드       |
| ROAD_NM   | 새주소 거리명      |
| TEL   | 전화번호         |
| Y   | Y좌표(UTM-K)   |
| BD_NO   | 새주소 건물번호     |
| X   | X좌표(UTM-K)   |
| <b>사용 예제</b>  |              |
| <b>요청 URL</b>   |              |
| <a href="http://openapi.kt.com/maps/search/GetPoiAlongPath?params=%7B%22timestamp%22%3A%2220120413092033765%22%2C%22sequenceno%22%3A%22%22%2C%22dis%22%3A%2220%22%2C%22name%22%3A%22%25EB%25A7%2558%25ED%255F%25AC%22%2C%22transactionid%22%3A%22%22%2C%22userid%22%3A%22%22%2C%22screenid%22%3A%22%22%2C%22linestring%22%3A%22%28951203.467555+1950338.059555%2C+951208.454924+1950340.085339%2C+951217.440695+1950342.132389%2C+951230.435502+1950342.201503%2C+951243.424992+1950343.270219%2C+951243.424992+1950343.270219%2C+951250.443462+1950339.309032%2C+951254.44718+1950338.330698%2C+951265.43747+1950339.38878%2C+951273.407692+1950344.429315%2C+951278.395061+1950346.455098%2C+951282.377514+1950349.475166%2C+951287.359567+1950352.50055%2C+951301.30081+1950362.570987%2C+951303.294695+1950363.581221%2C+951305.277946+1950366.590656%2C+951306.261597+1950369.594774%2C+951306.240331+1950373.593176%2C+951306.203115+1950380.59038%2C+951306.181849+1950384.588782%2C+951306.160582+1950388.587184%2C+951304.145431+1950391.575353%2C+951298.126562+1950395.541856%2C+951290.076591+1950405.495328%2C+951278.092018+1950403.432328%2C+951255.079939+19504028%2C+951290.076591+1950405.495328%2C+951278.092018+1950403.432328%2C+951255.079939+195040">http://openapi.kt.com/maps/search/GetPoiAlongPath?params=%7B%22timestamp%22%3A%2220120413092033765%22%2C%22sequenceno%22%3A%22%22%2C%22dis%22%3A%2220%22%2C%22name%22%3A%22%25EB%25A7%2558%25ED%255F%25AC%22%2C%22transactionid%22%3A%22%22%2C%22userid%22%3A%22%22%2C%22screenid%22%3A%22%22%2C%22linestring%22%3A%22%28951203.467555+1950338.059555%2C+951208.454924+1950340.085339%2C+951217.440695+1950342.132389%2C+951230.435502+1950342.201503%2C+951243.424992+1950343.270219%2C+951243.424992+1950343.270219%2C+951250.443462+1950339.309032%2C+951254.44718+1950338.330698%2C+951265.43747+1950339.38878%2C+951273.407692+1950344.429315%2C+951278.395061+1950346.455098%2C+951282.377514+1950349.475166%2C+951287.359567+1950352.50055%2C+951301.30081+1950362.570987%2C+951303.294695+1950363.581221%2C+951305.277946+1950366.590656%2C+951306.261597+1950369.594774%2C+951306.240331+1950373.593176%2C+951306.203115+1950380.59038%2C+951306.181849+1950384.588782%2C+951306.160582+1950388.587184%2C+951304.145431+1950391.575353%2C+951298.126562+1950395.541856%2C+951290.076591+1950405.495328%2C+951278.092018+1950403.432328%2C+951255.079939+19504028%2C+951290.076591+1950405.495328%2C+951278.092018+1950403.432328%2C+951255.079939+195040</a> |              |

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 1950097.463903%2C+951647.587871+1950096.512148%2C+951647.587871+1950096.512148%2C+951652.59  
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### 결과값 예시

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```

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```

## F. POI 명칭 조회

| 기본정보 | GetPoiWithName                         |
|------|--|
|      | ● 기능: 지역에 상관없이 POI 명칭 또는 초성을 검색조회하는 기능 |

|                         |   |
|-------------------------|---|
|                         | <ul style="list-style-type: none"> <li>방식: GET/POST</li> <li>호출 URL: <a href="http://openapi.kt.com/maps/search/GetPoiWithName">http://openapi.kt.com/maps/search/GetPoiWithName</a></li> </ul> |
| <b>요청 파라미터</b>          |   |
| name                    | POI명칭 (2자 이상, UTF-8 URL인코딩)   |
| addracd                 | 주소코드(Option)  |
| addracdtype             | 주소코드타입(Option) 0:법정동(default) 1:행정동   |
| sort                    | 정렬방법(option) 0:명칭(default) 1:거리순  |
| resultcnt               | 조회결과수(option, default:10)   |
| p                       | 페이지 번호(option, default:0)   |
| x                       | 중심X좌표(Option, UTM-K)  |
| y                       | 중심Y좌표(Option, UTM-K)  |
| timestamp               | "yyyyMMddHHmmssSSS" 포맷의 요청 시간   |
| <b>반환값</b>              |   |
| 주소검색 결과 영역(addr)        |   |
| TOTALCOUNT              | 검색결과 총수   |
| COUNT                   | 현재 포함된 검색결과수  |
| POI 리스트 (Count 개수만큼 반복) |   |
| SGG                     | 시군구   |
| DISTANCE                | 중심좌표로부터 거리  |
| NAME                    | POI 명칭  |
| HADM                    | 행정동 코드  |
| POI_CODE                | 카테고리 코드   |
| ID_POI                  | POI 고유 번호   |
| THEME_CODE              | 테마코드  |
| BEONJI                  | 번지  |
| DONG                    | 동면읍   |
| POI_CODE_NAME           | 카테고리명   |
| SIDO                    | 시도  |
| BADM                    | 법정동 코드  |
| ROAD_NM                 | 새주소 거리명   |
| TEL                     | 전화번호  |
| Y                       | Y좌표(UTM-K)  |
| BD_NO                   | 새주소 건물번호  |
| X                       | X좌표(UTM-K)  |
| <b>사용 예제</b>            |   |

| 요청 URL  |
|---|
| http://openapi.kt.com/maps/search/GetPoiWithName?params=%7B%22timestamp%22%3A%2220120413092033765%22%2C%22sequenceno%22%3A%22%22%2C%22name%22%3A%22%25EC%25BD%2594%25EC%2597%2591%25EC%258A%25A4%22%2C%22transactionid%22%3A%22%22%2C%22userid%22%3A%22%22%2C%22screenid%22%3A%22%22%7D   |
| 결과값 예시  |
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6-  
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## G. POI 상세보기

| GetDetailPoiInfo  |  |
|---|--|
| 기본정보  | <ul style="list-style-type: none"> <li>기능: 검색된 POI에 대한 상세보기 기능</li> <li>방식: GET/POST</li> <li>호출 URL: <a href="http://openapi.kt.com/maps/search/GetDetailPoiInfo">http://openapi.kt.com/maps/search/GetDetailPoiInfo</a></li> </ul> |
| 요청 파라미터   |  |
| idpoi   | POI 고유번호   |
| timestamp   | "yyyyMMddHHmmssSSS" 포맷의 요청 시간  |
| 반환값   |  |
| POI 정보 리스트  |  |
| ID_MST_ADD  | 부가정보키  |
| ID_POI  | POI키   |
| ADDCD   | 부과정보 코드  |
| ADDNM   | 부과정보 명칭  |
| ADD_CONTENTS  | 설명   |
| 사용 예제   |  |
| 요청 URL  |  |
| <code>http://openapi.kt.com/maps/search/GetDetailPoiInfo?params=%7B%22timestamp%22%3A%2220120413092033   765%22%2C%22sequenceno%22%3A%22%22%2C%22idpoi%22%3A%22MP1108011481600%22%2C%22transa   ctionid%22%3A%22%22%2C%22userid%22%3A%22%22%2C%22screenid%22%3A%22%22%7D</code>   |  |
| 결과값 예시  |  |
| <pre>{"sequenceno":"9999","errordescription":null,"returncode":"1","transactionid":"03c68719-c72e-368c-babb-   f43be9a9e776","payload":"   %7B%22RESDATA%22%3A   %7B%22DETAILPOI%22%3A%5B   %7B%22ID_MST_ADD%22%3A%22ME1108007182581++++%22%2C%22ID_POI%22%3A%22MP110801148160   0%22%2C%22ADDNM%22%3A%22%EC%97%85%EC%B2%B4%EC%84%A4%EB%AA%85%22%2C%22ADDCD%   22%3A%22D004%22%2C%22ADD_CONTENTS%22%3A%22%EB%8C%80%ED%95%9C%EB%AF%BC%EA%B5%A   D+%EC%A0%8A%EC%9D%8C%EC%9D%98+%EC%A4%91%EC%8B%AC%EC%A7%80+%EA%B0%95%EB%82%A   8%EC%97%AD%EC%9D%98+%EA%BA%BC%EC%A7%80%EC%A7%80+%EC%95%8A%EB%8A%94+%EA%B0%9   0%EB%8F%99%2C+%EC%94%A8%EB%84%88%EC%8A%A4+%EA%B0%95%EB%82%A8+%EC%9E%85%EB%8B</pre> |  |

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 엘리베이터, 영화관 전용 누드 계단 등을 통해 고객님들께 강남역 최고의 전망을 선물합니다.편안하고 즐겁게  
 영화를 즐기실 수 있도록 디자인된 상영관은 국내 최대의 좌석간 거리를 유지한 좌석과 음향 시스템을  
 갖추고 있습니다.또한 씨너스 강남은 국내 최초로 영화관 마케팅 전문 회사◆ 더불어 관객을 위한 다양한  
 프로그램을 개발하고 있으며 이를 통해 관객 여러분들께 재미와 웃음을 안겨 드리고 있습니다."},  
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위:9 영화제목:링컨차를타는변호사(4K 디지털),등급:15 세이상관람가,순위:7 영화제목:모비딕(4K 디지털),등급:15 세  
이상관람가,순위:4 영화제목:슈퍼에이트(4K 디지털),등급:12 세이상관람가,순위:5 영화제목:써니(4K 디지털),등급:15  
세이상관람가,순위:1 영화제목:엑스맨:퍼스트클래스(4K 디지털),등급:12 세이상관람가,순위:2 영화제목:쿵푸팬더 2(4  
K 디지털-한글자막),등급:전체관람가,순위:3"},  
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 영화관 건물 지하 주차장 이용 (지하 3 층~지하 6 층)&#8226; 주차비용 : 영화관람 시 3 시간당 2,000 원  
(이후 추가시간 10 분당 1,000 원 추가 정산) &#8226; 주차확인 : 영화관 8 층 Membership Zone 에서
```

```

주차티켓과 영화티켓 제시 후 주차요금 정산 (주차 정산 및 출차 시 티켓을 꼭 소지하셔야 합니다.)"},  

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2호선 강남역 5번 출구 버스정보 : 파란색(간선버스):  

140,144,145,146,360,400,402,420,470,471,730<br>초록색(지선버스):  

4312,4417,4420,4421,4422,4424,4431,5412<br>빨강(광역버스):  

9406,9408,9409,9410,9411,9412,9503,9700<br>공항버스: 906"},  

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```

## 2) 테마

### A. 테마 + 영역(Rectangle) 조회

| GetThemePoiWithinRectangle |   |
|----------------------------|---|
| 기본정보                       | <ul style="list-style-type: none"> <li>기능: POI 테마코드와 사각형을 표현하는 영역 정보로 영역내에 위치하는 POI를 조회 하는 기능</li> <li>방식: GET/POST</li> <li>호출 URL: <a href="http://openapi.kt.com/maps/search/GetThemePoiWithinRectangle">http://openapi.kt.com/maps/search/GetThemePoiWithinRectangle</a></li> </ul> |
| 요청 파라미터                    |   |
| thcd                       | <u>테마코드</u> (2자리 이상)  |
| minx                       | 사각형의 왼쪽 하단의 X좌표(UTM-K)<br>영역의 넓이는 100(km <sup>2</sup> ) 제한  |
| miny                       | 사각형의 왼쪽 하단의 Y좌표(UTM-K)<br>영역의 넓이는 100(km <sup>2</sup> ) 제한  |
| maxx                       | 사각형의 오른쪽 상단의 X좌표(UTM-K)<br>영역의 넓이는 100(km <sup>2</sup> ) 제한   |
| maxy                       | 사각형의 오른쪽 상단의 Y좌표(UTM-K)<br>영역의 넓이는 100(km <sup>2</sup> ) 제한   |
| sort                       | 정렬방법(option) 0:명칭(default) 1:거리순  |
| resultcnt                  | 조회결과수(option, default:10)   |
| p                          | 페이지 번호(option, default:0)   |
| x                          | 중심X좌표(option, UTM-K)  |
| y                          | 중심Y좌표(option, UTM-K)  |
| timestamp                  | "yyyyMMddHHmmssSSS" 포맷의 요청 시간   |
| 반환값                        |   |

| 주소검색 결과 영역(addr)  |              |
|---|--------------|
| TOTALCOUNT  | 검색결과 총수      |
| COUNT   | 현재 포함된 검색결과수 |
| POI 리스트 (Count 개수만큼 반복)   |              |
| SGG   | 시군구          |
| DISTANCE  | 중심좌표로부터 거리   |
| NAME  | POI 명칭       |
| HADM  | 행정동 코드       |
| POI_CODE  | 카테고리 코드      |
| ID_POI  | POI 고유 번호    |
| THEME_CODE  | 테마코드         |
| BEONJI  | 번지           |
| DONG  | 동면읍          |
| POI_CODE_NAME   | 카테고리명        |
| SIDO  | 시도           |
| BADM  | 법정동 코드       |
| ROAD_NM   | 새주소 거리명      |
| TEL   | 전화번호         |
| Y   | Y좌표(UTM-K)   |
| BD_NO   | 새주소 건물번호     |
| X   | X좌표(UTM-K)   |
| 사용 예제   |              |
| 요청 URL  |              |
| <a href="http://openapi.kt.com/maps/search/GetThemePoiWithinRectangle?params=%7B%22timestamp%22%3A%2220120413092033765%22%2C%22sequenceno%22%3A%22%22%2C%22maxx%22%3A%22931896%22%2C%22thcd%22%3A%2201%22%2C%22maxy%22%3A%221943835%22%2C%22transactionid%22%3A%22%22%2C%22userid%22%3A%22%22%2C%22screenid%22%3A%22%22%2C%22minx%22%3A%22928054%22%2C%22miny%22%3A%221941578%22%2C%22y%22%3A%221943835%22%2C%22x%22%3A%22931896%22%7D">http://openapi.kt.com/maps/search/GetThemePoiWithinRectangle?params=%7B%22timestamp%22%3A%2220120413092033765%22%2C%22sequenceno%22%3A%22%22%2C%22maxx%22%3A%22931896%22%2C%22thcd%22%3A%2201%22%2C%22maxy%22%3A%221943835%22%2C%22transactionid%22%3A%22%22%2C%22userid%22%3A%22%22%2C%22screenid%22%3A%22%22%2C%22minx%22%3A%22928054%22%2C%22miny%22%3A%221941578%22%2C%22y%22%3A%221943835%22%2C%22x%22%3A%22931896%22%7D</a> |              |
| 결과값 예시  |              |
| <pre>{"sequenceno":"9999","errordescription":null,"returncode":"1","transactionid":"2b32fcce-2ad2-3ca9-bd18-fd71459c0ee9","payload": %7B%22TOTALCOUNT%22%3A370%2C%22COUNT%22%3A10%2C%22POI%22%3A%5B %7B%22SGG%22%3A%22%EB%B6%80%ED%8F%89%EA%B5%AC%22%2C%22DISTANCE%22%3A%22941%22% 2C%22NAME%22%3A%22%EA%B0%80%EB%9E%8C%EA%B3%BC%EB%AB%BC%28%ED%95%9C%EC%8B%9D %29%22%2C%22HADM%22%3A%2228237510%22%2C%22POI_CODE%22%3A%22851102000%22%2C%22ID_P</pre>  |              |

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## B. 테마 + 영역(Polygon) 조회

| GetThemePoiWithinPolygon       |   |
|--------------------------------|---|
| 기본정보                           | <ul style="list-style-type: none"> <li>● 기능: POI 테마코드와 다각형을 표현하는 영역 정보로 영역내에 위치하는 POI를 조회 하는 기능</li> <li>● 방식: GET/POST</li> <li>● 호출 URL: <a href="http://openapi.kt.com/maps/search/GetThemePoiWithinPolygon">http://openapi.kt.com/maps/search/GetThemePoiWithinPolygon</a></li> </ul> |
| <b>요청 파라미터</b>                 |   |
| thcd                           | 테마코드(2자리 이상)  |
| polygon                        | 다각형좌표값들(UTM-K, UTM-K, URL인코딩)<br>영역의 넓이는 100(km <sup>2</sup> ) 제한<br>(933496 1955332, 956277 1955198, 955741 1947292, 933496<br>1955332, 933496 1955332, 933496 1955332) 마지막점은 반드시 첫번째 좌표 추가  |
| sort                           | 정렬방법(option) 0:명칭(default) 1:거리순  |
| resultcnt                      | 조회결과수(option, default:10)   |
| p                              | 페이지 번호(option, default:0)   |
| x                              | 중심X좌표(option, UTM-K)  |
| y                              | 중심Y좌표(option, UTM-K)  |
| timestamp                      | "yyyyMMddHHmmssSSS" 포맷의 요청 시간   |
| <b>반환값</b>                     |   |
| 주소검색 결과 영역(addr)               |   |
| TOTALCOUNT                     | 검색결과 총수   |
| COUNT                          | 현재 포함된 검색결과수  |
| <i>POI 리스트 (Count 개수만큼 반복)</i> |   |
| SGG                            | 시군구   |
| DISTANCE                       | 중심좌표로부터 거리  |
| NAME                           | POI 명칭  |
| HADM                           | 행정동 코드  |
| POI_CODE                       | 카테고리 코드   |

|   |            |
|---|------------|
| ID_POI  | POI 고유 번호  |
| THEME_CODE  | 테마코드       |
| BEONJI  | 번지         |
| DONG  | 동면읍        |
| POI_CODE_NAME   | 카테고리명      |
| SIDO  | 시도         |
| BADM  | 법정동 코드     |
| ROAD_NM   | 새주소 거리명    |
| TEL   | 전화번호       |
| Y   | Y좌표(UTM-K) |
| BD_NO   | 새주소 건물번호   |
| X   | X좌표(UTM-K) |
| <b>사용 예제</b>  |            |
| <b>요청 URL</b>   |            |
| http://openapi.kt.com/maps/search/GetThemePoiWithinPolygon?params=%7B%22polygon%22%3A%22%28952667+1950763%2C953907+1950067%2C953627+1948811%2C952307+1949307%2C952667+1950763%29%22%2C%22timestamp%22%3A%2220120413092033765%22%2C%22sequenceno%22%3A%22%22%2C%22thcd%22%3A%221000%22%2C%22transactionid%22%3A%22%22%2C%22userid%22%3A%22%22%2C%22screenid%22%3A%22%22%2C%22y%22%3A%221950107%22%2C%22x%22%3A%22953226%22%7D  |            |
| <b>결과값 예시</b>   |            |
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### C. 테마 + 반경 조회

| 기본정보  | GetThemePoiWithinCircle  |      |              |   |              |   |              |        |  |      |                                  |
|---|--|------|--------------|---|--------------|---|--------------|--------|--|------|----------------------------------|
|   | <ul style="list-style-type: none"> <li>기능: POI 테마와 중심좌표 반경값(m)안의 POI 조회 기능</li> <li>방식: GET/POST</li> <li>호출 URL: <a href="http://openapi.kt.com/maps/search/GetThemePoiWithinCircle">http://openapi.kt.com/maps/search/GetThemePoiWithinCircle</a></li> </ul> |      |              |   |              |   |              |        |  |      |                                  |
|   | 요청 파라미터  |      |              |   |              |   |              |        |  |      |                                  |
| <table border="1"> <tr> <td>thcd</td><td>테마코드(2자리 이상)</td></tr> <tr> <td>x</td><td>중심X좌표(UTM-K)</td></tr> <tr> <td>y</td><td>중심Y좌표(UTM-K)</td></tr> <tr> <td>radius</td><td>반경(Min=1, Max = 10000, 단위 = meter)<br/>10km로 제한</td></tr> <tr> <td>sort</td><td>정렬방법(option) 0:명칭(default) 1:거리순</td></tr> </table> |  | thcd | 테마코드(2자리 이상) | x | 중심X좌표(UTM-K) | y | 중심Y좌표(UTM-K) | radius | 반경(Min=1, Max = 10000, 단위 = meter)<br>10km로 제한 | sort | 정렬방법(option) 0:명칭(default) 1:거리순 |
| thcd  | 테마코드(2자리 이상)   |      |              |   |              |   |              |        |  |      |                                  |
| x   | 중심X좌표(UTM-K)   |      |              |   |              |   |              |        |  |      |                                  |
| y   | 중심Y좌표(UTM-K)   |      |              |   |              |   |              |        |  |      |                                  |
| radius  | 반경(Min=1, Max = 10000, 단위 = meter)<br>10km로 제한   |      |              |   |              |   |              |        |  |      |                                  |
| sort  | 정렬방법(option) 0:명칭(default) 1:거리순   |      |              |   |              |   |              |        |  |      |                                  |

|  |                               |
|--|-------------------------------|
| resultcnt  | 조회결과수(option, default:10)     |
| p  | 페이지 번호(option, default:0)     |
| timestamp  | "yyyyMMddHHmmssSSS" 포맷의 요청 시간 |
| <b>반환값</b>   |                               |
| 주소검색 결과 영역(addr)   |                               |
| TOTALCOUNT   | 검색결과 총수                       |
| COUNT  | 현재 포함된 검색결과수                  |
| <i>POI</i> 리스트 (Count 개수만큼 반복)   |                               |
| SGG  | 시군구                           |
| DISTANCE   | 중심좌표로부터 거리                    |
| NAME   | POI 명칭                        |
| HADM   | 행정동 코드                        |
| POI_CODE   | 카테고리 코드                       |
| ID_POI   | POI 고유 번호                     |
| THEME_CODE   | 테마코드                          |
| BEONJI   | 번지                            |
| DONG   | 동면읍                           |
| POI_CODE_NAME  | 카테고리명                         |
| SIDO   | 시도                            |
| BADM   | 법정동 코드                        |
| ROAD_NM  | 새주소 거리명                       |
| TEL  | 전화번호                          |
| Y  | Y좌표(UTM-K)                    |
| BD_NO  | 새주소 건물번호                      |
| X  | X좌표(UTM-K)                    |
| <b>사용 예제</b>   |                               |
| <b>요청 URL</b>  |                               |
| http://openapi.kt.com/maps/search/GetThemePoiWithinCircle?params=%7B%22timestamp%22%3A%2220120413092033765%22%2C%22sequenceno%22%3A%22%22%2C%22thcd%22%3A%221500%22%2C%22transactionid%22%3A%22%22%2C%22userid%22%3A%22%22%2C%22screenid%22%3A%22%22%2C%22radius%22%3A%221000%22%2C%22y%22%3A%221941578%22%2C%22x%22%3A%22928054%22%7D |                               |
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#### D. 가장 가까운 테마 POI 조회

기본정보

GetThemePoiWithinNearArea

|   |   |
|---|---|
|   | <ul style="list-style-type: none"> <li>● 기능: 중심좌표에서 가장 가까운 테마 POI 조회 기능</li> <li>● 방식: GET/POST</li> <li>● 호출 URL: <a href="http://openapi.kt.com/maps/search/GetThemePoiWithinNearArea">http://openapi.kt.com/maps/search/GetThemePoiWithinNearArea</a></li> </ul> |
| <b>요청 파라미터</b>  |   |
| thcd  | 테마코드(2자리 이상)  |
| x   | 중심X좌표(UTM-K)  |
| y   | 중심Y좌표(UTM-K)  |
| resultcnt   | 조회결과수(option, default: 10)  |
| timestamp   | "yyyyMMddHHmmssSSS" 포맷의 요청 시간   |
| <b>반환값</b>  |   |
| 주소검색 결과 영역(addr)  |   |
| TOTALCOUNT  | 검색결과 총수   |
| COUNT   | 현재 포함된 검색결과수  |
| <i>POI 리스트 (Count 개수만큼 반복)</i>  |   |
| SGG   | 시군구   |
| DISTANCE  | 중심좌표로부터 거리  |
| NAME  | POI 명칭  |
| HADM  | 행정동 코드  |
| POI_CODE  | 카테고리 코드   |
| ID_POI  | POI 고유 번호   |
| THEME_CODE  | 테마코드  |
| BEONJI  | 번지  |
| DONG  | 동면읍   |
| POI_CODE_NAME   | 카테고리명   |
| SIDO  | 시도  |
| BADM  | 법정동 코드  |
| ROAD_NM   | 새주소 거리명   |
| TEL   | 전화번호  |
| Y   | Y좌표(UTM-K)  |
| BD_NO   | 새주소 건물번호  |
| X   | X좌표(UTM-K)  |
| <b>사용 예제</b>  |   |
| <b>요청 URL</b>   |   |
| <a href="http://openapi.kt.com/maps/search/GetThemePoiWithinNearArea?params=%7B%22timestamp%22%3A%2220120413092033765%22%2C%22sequenceno%22%3A%22%22%2C%22thcd%22%3A%221000%22%2C%22transact">http://openapi.kt.com/maps/search/GetThemePoiWithinNearArea?params=%7B%22timestamp%22%3A%2220120413092033765%22%2C%22sequenceno%22%3A%22%22%2C%22thcd%22%3A%221000%22%2C%22transact</a> |   |

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|  |
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## E. 테마 + 경로 조회

| GetThemePoiAlongPath    |  |
|-------------------------|--|
| 기본정보                    | <ul style="list-style-type: none"> <li>기능: 경로상에서 POI 테마를 이용하여 조회</li> <li>방식: GET/POST</li> <li>호출 URL: <a href="http://openapi.kt.com/maps/search/GetThemePoiAlongPath">http://openapi.kt.com/maps/search/GetThemePoiAlongPath</a></li> </ul> |
| 요청 파라미터                 |  |
| thcd                    | 테마코드(2자리 이상)   |
| linestring              | 경로 좌표들(UTM-K, UTF-8 URL인코딩)<br>20km로 제한  |
| sort                    | 정렬방법(option) 0:명칭(default) 1:거리순   |
| resultCnt               | 조회결과수(option, default:10)  |
| p                       | 페이지 번호(option, default:0)  |
| side                    | 검색할면(Option, default:0) 0:오른쪽 1:왼쪽 2:둘다  |
| dis                     | lineString으로부터 검색거리 단위:m (option, default : 10)  |
| x                       | 중심X좌표(Option, UTM-K)   |
| y                       | 중심Y좌표(Option, UTM-K)   |
| timestamp               | "yyyyMMddHHmmssSSS" 포맷의 요청 시간  |
| 반환값                     |  |
| 주소검색 결과 영역(addr)        |  |
| TOTALCOUNT              | 검색결과 총수  |
| COUNT                   | 현재 포함된 검색결과수   |
| POI 리스트 (Count 개수만큼 반복) |  |
| SGG                     | 시군구  |
| DISTANCE                | 중심좌표로부터 거리   |
| NAME                    | POI 명칭   |
| HADM                    | 행정동 코드   |
| POI_CODE                | 카테고리 코드  |
| ID_POI                  | POI 고유 번호  |
| THEME_CODE              | 테마코드   |
| BEONJI                  | 번지   |
| DONG                    | 동면읍  |
| POI_CODE_NAME           | 카테고리명  |

|  |            |
|--|------------|
| SIDO   | 시도         |
| BADM   | 법정동 코드     |
| ROAD_NM  | 새주소 거리명    |
| TEL  | 전화번호       |
| Y  | Y좌표(UTM-K) |
| BD_NO  | 새주소 건물번호   |
| X  | X좌표(UTM-K) |
| <b>사용 예제</b>   |            |
| <b>요청 URL</b>  |            |
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5ff8dc01b19c%22%2C%22ERRMS%22%3A%22SUCCESS%22%7D", "errorcode": null, "returnndescription": "SUCCESS

"}

```
+++++<“payload” 값을 URL 디코딩(UTF-8)> ++++++
```

```
"
```

```
{"RESDATA":
```

```
{"TOTALCOUNT":6,"COUNT":6,"POI":[
```

```
{"SGG":"마포구","DISTANCE":"2110","NAME":"떡뎅이","HADM":"11440590","POI_CODE":"859301000","ID_POI":"MP1108011432869","THEME_CODE":"0101","BEONJI":"30-
```

```
17","DONG":"대흥동","POI_CODE_NAME":"한식/중식/일식;분식;분식
```

```
기타","SIDO":"서울특별시","BADM":"1144010800","ROAD_NM":"","TEL":"","Y":1950336,"BD_NO":"","X":951128},
```

```
{"SGG":"마포구","DISTANCE":"2110","NAME":"미가락참숯갈비","HADM":"","POI_CODE":"855001000","ID_POI":"MP1207E00249835","THEME_CODE":"0101","BEONJI":"33-
```

```
5","DONG":"염리동","POI_CODE_NAME":"한식/중식/일식;갈비;갈비집
```

```
일반","SIDO":"서울특별시","BADM":"1144010900","ROAD_NM":"","TEL":"027067940","Y":1950355,"BD_NO":"","X":951131},
```

```
{"SGG":"마포구","DISTANCE":"1545","NAME":"송가네손칼국수(한식)","HADM":"11440555","POI_CODE":"851102000","ID_POI":"MP1108011417126","THEME_CODE":"0101","BEONJI":"232-
```

```
34","DONG":"공덕동","POI_CODE_NAME":"한식/중식/일식;전통음식;한식
```

```
일반","SIDO":"서울특별시","BADM":"1144010200","ROAD_NM":"","TEL":"","Y":1950084,"BD_NO":"","X":951681},
```

```
{"SGG":"마포구","DISTANCE":"1618","NAME":"유나인돈가스","HADM":"11440555","POI_CODE":"801401000","ID_POI":"MP1108011142250","THEME_CODE":"0102","BEONJI":"222-
```

```
2","DONG":"공덕동","POI_CODE_NAME":"양식/뷔페/퓨전;양식;양식
```

```
일반","SIDO":"서울특별시","BADM":"1144010200","ROAD_NM":"","TEL":"027066220","Y":1950098,"BD_NO":"","X":951608},
```

```
{"SGG":"마포구","DISTANCE":"1854","NAME":"정통중화요리전문점(중식)","HADM":"11440610","POI_CODE":"852001000","ID_POI":"MP1108011359533","THEME_CODE":"0103","BEONJI":"128-
```

```
58","DONG":"염리동","POI_CODE_NAME":"한식/중식/일식;중식;중화요리
```

```
일반","SIDO":"서울특별시","BADM":"1144010900","ROAD_NM":"","TEL":"027170636","Y":1950075,"BD_NO":"","X":951372},
```

```
{"SGG":"마포구","DISTANCE":"1552","NAME":"충무(한식)","HADM":"11440555","POI_CODE":"851102000","ID_POI":"MP1108011142256","THEME_CODE":"0101","BEONJI":"232-
```

```
10","DONG":"공덕동","POI_CODE_NAME":"한식/중식/일식;전통음식;한식
```

```
일반","SIDO":"서울특별시","BADM":"1144010200","ROAD_NM":"","TEL":"027011302","Y":1950082,"BD_NO":"","X":951674}],"ID":"306","ERRCD":0,"NO":"d853e755-32df-39d6-a384-5ff8dc01b19c","ERRMS":"SUCCESS"}]
```

## F. 테마 조회

| 기본정보                    | GetThemePoi   |
|-------------------------|---|
|                         | ● 기능: 지역에 상관없이 테마코드만으로 조회하는 기능  |
|                         | ● 방식: GET/POST  |
|                         | ● 호출 URL: <a href="http://openapi.kt.com/maps/search/GetThemePoi">http://openapi.kt.com/maps/search/GetThemePoi</a> |
| 요청 파라미터                 |   |
| thcd                    | 테마코드(2자리 이상)  |
| sort                    | 정렬방법(option) 0:명칭(default) 1:거리순  |
| addrccd                 | 주소코드(Option)  |
| addrctype               | 주소코드타입(Option) 0:법정동(default) 1:행정동   |
| resultcnt               | 조회결과수(option, default:10)   |
| p                       | 페이지 번호(option, default:0)   |
| x                       | 중심X좌표(Option, UTM-K)  |
| y                       | 중심Y좌표(Option, UTM-K)  |
| timestamp               | "yyyyMMddHHmmssSSS" 포맷의 요청 시간   |
| 반환값                     |   |
| 주소검색 결과 영역(addr)        |   |
| TOTALCOUNT              | 검색결과 총수   |
| COUNT                   | 현재 포함된 검색결과수  |
| POI 리스트 (Count 개수만큼 반복) |   |
| SGG                     | 시군구   |
| DISTANCE                | 중심좌표로부터 거리  |
| NAME                    | POI 명칭  |
| HADM                    | 행정동 코드  |
| POI_CODE                | 카테고리 코드   |
| ID_POI                  | POI 고유 번호   |
| THEME_CODE              | 테마코드  |
| BEONJI                  | 번지  |
| DONG                    | 동면읍   |
| POI_CODE_NAME           | 카테고리명   |
| SIDO                    | 시도  |
| BADM                    | 법정동 코드  |
| ROAD_NM                 | 새주소 거리명   |
| TEL                     | 전화번호  |
| Y                       | Y좌표(UTM-K)  |
| BD_NO                   | 새주소 건물번호  |

|  |            |
|--|------------|
| X  | X좌표(UTM-K) |
| <b>사용 예제</b>   |            |
| <b>요청 URL</b>  |            |
| http://openapi.kt.com/maps/search/GetThemePoi?params=%7B%22timestamp%22%3A%2220120413092033765%22%2C%22sequenceno%22%3A%22%22%2C%22thcd%22%3A%22201%22%2C%22transactionid%22%3A%22%22%2C%22userid%22%3A%22%22%2C%22screenid%22%3A%22%22%7D   |            |
| <b>결과값 예시</b>  |            |
| <pre>{"sequenceno":"9999","errordescription":null,"returncode":"1","transactionid":"c2a6359c-43be-3058-ae8b-ae86b70764c9","payload": "%7B%22RESDATA%22%3A%7B%22TOTALCOUNT%22%3A376905%2C%22COUNT%22%3A10%2C%22POI%22%3A%5B%7B%22SGG%22%3A%22%EC%9E%A5%ED%9D%A5%EA%B5%B0%22%2C%22DISTANCE%22%3A%22312152%22%2C%22NAME%22%3A%22001%ED%9A%8C%EA%B4%80%28%ED%95%9C%EC%8B%9D%29%22%2C%22HADM%22%3A%2246800250%22%2C%22POI_CODE%22%3A%22851102000%22%2C%22ID_POI%22%3A%22MP1108046146615%22%2C%22THEME_CODE%22%3A%220101%22%2C%22BEONJI%22%3A%22397%22%2C%22DONG%22%3A%22%EC%9E%A5%ED%9D%A5%EC%9D%8D+%EA%B1%B4%EC%82%B0%EB%A6%AC%22%2C%22POI_CODE_NAME%22%3A%22%ED%95%9C%EC%8B%9D%2F%EC%A4%91%EC%8B%9D%2F%EC%9D%BC%EC%8B%9D%3B%EC%A0%84%ED%86%B5%EC%9D%8C%EC%8B%9D%3B%ED%95%9C%EC%8B%9D+%EC%9D%BC%EB%B0%98%22%2C%22SIDO%22%3A%22%EC%A0%84%EB%9D%BC%EB%82%A8%EB%8F%84%22%2C%22BADM%22%3A%224680025037%22%2C%22ROAD_NM%22%3A%22%22%2C%22TEL%22%3A%22%22%2C%22Y%22%3A1631769%2C%22BD_NO%22%3A%22%22%2C%22X%22%3A946024%7D%2C%7B%22SGG%22%3A%22%EC%9B%90%EC%A3%BC%EC%8B%9C%22%2C%22DISTANCE%22%3A%2291733%22%2C%22NAME%22%3A%22016%EC%88%AF%EB%B6%88%EA%B0%88%EB%B9%84%28%ED%95%9C%EC%8B%9D%29%22%2C%22HADM%22%3A%2242130620%22%2C%22POI_CODE%22%3A%22851102000%22%2C%22ID_POI%22%3A%22MP1108042135886%22%2C%22THEME_CODE%22%3A%220101%22%2C%22BEONJI%22%3A%22%EC%82%BD_056-4%22%2C%22DONG%22%3A%22%ED%83%9C%EC%9E%A5%EB%8F%99%22%2C%22POI_CODE_NAME%22%3A%22%ED%95%9C%EC%8B%9D%2F%EC%A4%91%EC%8B%9D%2F%EC%9D%BC%EC%8B%9D%3B%EC%A0%84%ED%86%B5%EC%9D%8C%EC%8B%9D%3B%ED%95%9C%EC%8B%9D+%EC%9D%BC%EB%B0%98%22%2C%22SIDO%22%3A%22%EA%B0%95%EC%9B%90%EB%8F%84%22%2C%22BADM%22%3A%224213011200%22%2C%22ROAD_NM%22%3A%22%22%2C%22TEL%22%3A%22%22%2C%22Y%22%3A1931342%2C%22BD_NO%22%3A%22%22%2C%22X%22%3A1039873%7D%2C%7B%22SGG%22%3A%22%EC%97%AC%EC%88%98%EC%8B%9C%22%2C%22DISTANCE%22%3A%22312997%22%2C%22NAME%22%3A%220410%EA%B5%AD%EC%88%98%EC%97%AC%EC%88%98%EC%84%B8%EA%B3%84%EB%B0%95%EB%9E%8C%ED%9A%8C%EC%A0%90%22%2C%22HADM%22%3A%22%22%2C%22POI_CODE%22%3A%220101%22%2C%22BEONJI%22%3A%22%22%2C%22DONG%22%3A%22%22%EB%8D%95%EC%B6%A9%EB%8F%99%22%2C%22POI_CODE_NAME%22%3A%22%ED%95%9C%EC%8B%9D%2F%EC%A4%91%EC%8B%9D%2F%EC%9D%BC%EC%8B%9D%3B%EB%B6%84%EC%8B%9D%3B%EB%B6%84%EC%8B%9D+%EA%B8%B0%ED%8</pre> |            |

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## G. 테마코드리스트조회

|  |                               |                          |  |  |
|--|-------------------------------|--------------------------|--|--|
| 기본정보   | <b>/GetThemeCodeList</b>      |                          |  |  |
|  | ● 기능:                         | 지역에 상관없이 테마코드만으로 조회하는 기능 |  |  |
|  | ● 방식:                         | GET/POST                 |  |  |
| ● 호출 URL: <a href="http://openapi.kt.com/maps/search/GetThemeCodeList">http://openapi.kt.com/maps/search/GetThemeCodeList</a>  |                               |                          |  |  |
| <b>요청 파라미터</b>   |                               |                          |  |  |
| 없음   | 없음                            |                          |  |  |
| timestamp  | "yyyyMMddHHmmssSSS" 포맷의 요청 시간 |                          |  |  |
| <b>반환값</b>   |                               |                          |  |  |
| <b>테마 리스트</b>  |                               |                          |  |  |
| THCD   | 테마 대분류                        |                          |  |  |
| THID   | 테마 소분류                        |                          |  |  |
| LEVEL  | 레벨(0,1)                       |                          |  |  |
| THNM   | 테마 이름                         |                          |  |  |
| DES  | 설명                            |                          |  |  |
| <b>사용 예제</b>   |                               |                          |  |  |
| <b>요청 URL</b>  |                               |                          |  |  |
| http://openapi.kt.com/maps/search/GetThemeCodeList?params=%7B%22timestamp%22%3A%2220120413092033765%22%2C%22sequenceno%22%3A%22%22%2C%22transactionid%22%3A%22%22%2C%22userid%22%3A%22%22%2C%22screenid%22%3A%22%22%7D |                               |                          |  |  |
| <b>결과값 예시</b>  |                               |                          |  |  |

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B0%A8%EA%B7%  
B9%EC%9E%A5%22%2C%22THCD%  
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E%  
C%9E%90%EB%8F%99%EC%  
B0%A8+%EA%B7%  
B9%EC%9E%A5%22%2C%22THID%22%3A%2202%22%7D%2C  
%7B%22DES%22%3A%22%EC%97%  
B0%EA%B7%  
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3%22%2C%22IS\_SHOW%22%3A%221%22%2C%22LEVEL%22%3A2%2C%22THNM%22%3A%22%EC%97%  
B0%EC%

A% B7% B9% EA% B7% B9% EC% 9E% A5% 22% 2C% 22THID% 22% 3A% 2203% 22% 7D% 2C  
% 7B% 22DES% 22% 3A% 22% EA% B5% AD% EB% A6% BD% EA% B5% AD% EC% 95% 85% EC% 9B% 90% 22% 2C% 22THCD  
% 22% 3A% 2213% 22% 2C% 22IS\_SHOW% 22% 3A% 221% 22% 2C% 22LEVEL% 22% 3A2% 2C% 22THNM% 22% 3A% 22%  
EA% B5% AD% EB% A6% BD% EA% B5% AD% EC% 95% 85% EC% 9B% 90% 22% 2C% 22THID% 22% 3A% 2204% 22% 7D% 2C  
% 7B% 22DES% 22% 3A% 22% EC% A2% 85% ED% 95% A9% EA% B3% B5% EC% 97% B0% EC% 9E% A5% 22% 2C% 22THCD  
% 22% 3A% 2213% 22% 2C% 22IS\_SHOW% 22% 3A% 221% 22% 2C% 22LEVEL% 22% 3A2% 2C% 22THNM% 22% 3A% 22%  
EC% A2% 85% ED% 95% A9% EA% B3% B5% EC% 97% B0% EC% 9E% A5% 22% 2C% 22THID% 22% 3A% 2205% 22% 7D% 2C  
% 7B% 22DES% 22% 3A% 22% EA% B5% AD% EB% A6% BD% EC% A4% 91% EC% 95% 99% EA% B7% B9% EC% 9E% A5% 22%  
2C% 22THCD% 22% 3A% 2213% 22% 2C% 22IS\_SHOW% 22% 3A% 221% 22% 2C% 22LEVEL% 22% 3A2% 2C% 22THNM%  
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22% 3A% 2206% 22% 7D% 2C  
% 7B% 22DES% 22% 3A% 22% ED% 98% B8% ED% 85% 94% 2F% EB% AA% A8% ED% 85% 94% 2F% EC% 97% AC% EA% B4%  
80% 2F% ED% 8C% AC% EC% 85% 98% 2F% EC% BD% 98% EB% 8F% 84% 22% 2C% 22THCD% 22% 3A% 2215% 22% 2C% 22I  
S\_SHOW% 22% 3A% 221% 22% 2C% 22LEVEL% 22% 3A1% 2C% 22THNM% 22% 3A% 22% EC% 88% 99% EB% B0% 95% 22  
% 2C% 22THID% 22% 3A% 2200% 22% 7D% 2C  
% 7B% 22DES% 22% 3A% 22% 22% 2C% 22THCD% 22% 3A% 2217% 22% 2C% 22IS\_SHOW% 22% 3A% 221% 22% 2C% 22L  
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2201% 22% 7D% 2C  
% 7B% 22DES% 22% 3A% 22% 22% 2C% 22THCD% 22% 3A% 2217% 22% 2C% 22IS\_SHOW% 22% 3A% 221% 22% 2C% 22L  
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% 7B% 22DES% 22% 3A% 22% 22% 2C% 22THCD% 22% 3A% 2217% 22% 2C% 22IS\_SHOW% 22% 3A% 221% 22% 2C% 22L  
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% 7B% 22DES% 22% 3A% 22% 22% 2C% 22THCD% 22% 3A% 2217% 22% 2C% 22IS\_SHOW% 22% 3A% 221% 22% 2C% 22L  
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EB% AC% BC% EA% B4% 80% 22% 2C% 22THID% 22% 3A% 2205% 22% 7D% 2C  
% 7B% 22DES% 22% 3A% 22% 22% 2C% 22THCD% 22% 3A% 2217% 22% 2C% 22IS\_SHOW% 22% 3A% 221% 22% 2C% 22L  
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% 7B% 22DES% 22% 3A% 22% 22% 2C% 22THCD% 22% 3A% 2217% 22% 2C% 22IS\_SHOW% 22% 3A% 221% 22% 2C% 22L  
EVEL% 22% 3A2% 2C% 22THNM% 22% 3A% 22% EA% B5% AD% EB% A6% BD% ED% 98% 84% EB% 8C% 80% EB% AF% B8%  
EC% 88% A0% EA% B4% 80% 22% 2C% 22THID% 22% 3A% 2207% 22% 7D% 2C

```
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```

+++++<"payload" 값을 URL 디코딩(UTF-8)> ++++++

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 {"DES":"분식포함","THCD":"01","IS_SHOW":"1","LEVEL":2,"THNM":"한식","THID":"01"},  

 {"DES":"패스트푸드 포함","THCD":"01","IS_SHOW":"1","LEVEL":2,"THNM":"양식","THID":"02"},  

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 {"DES":"","THCD":"04","IS_SHOW":"1","LEVEL":1,"THNM":"대중교통","THID":"00"},  

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 {"DES":"","THCD":"04","IS_SHOW":"1","LEVEL":2,"THNM":"버스터미널","THID":"03"},  

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 {"DES":"","THCD":"10","IS_SHOW":"1","LEVEL":1,"THNM":"주유소","THID":"00"},  

 {"DES":"중개소","THCD":"11","IS_SHOW":"1","LEVEL":1,"THNM":"부동산","THID":"00"},  

 {"DES":"","THCD":"12","IS_SHOW":"1","LEVEL":1,"THNM":"PC방","THID":"00"},
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  {"DES": "영화관", "THCD": "13", "IS_SHOW": "1", "LEVEL": 2, "THNM": "영화관", "THID": "01"},  

  {"DES": "자동차극장", "THCD": "13", "IS_SHOW": "1", "LEVEL": 2, "THNM": "자동차 극장", "THID": "02"},  

  {"DES": "연극극장", "THCD": "13", "IS_SHOW": "1", "LEVEL": 2, "THNM": "연극극장", "THID": "03"},  

  {"DES": "국립국악원", "THCD": "13", "IS_SHOW": "1", "LEVEL": 2, "THNM": "국립국악원", "THID": "04"},  

  {"DES": "종합공연장", "THCD": "13", "IS_SHOW": "1", "LEVEL": 2, "THNM": "종합공연장", "THID": "05"},  

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  {"DES": "", "THCD": "17", "IS_SHOW": "1", "LEVEL": 2, "THNM": "박물관", "THID": "02"},  

  {"DES": "", "THCD": "17", "IS_SHOW": "1", "LEVEL": 2, "THNM": "과학관", "THID": "03"},  

  {"DES": "", "THCD": "17", "IS_SHOW": "1", "LEVEL": 2, "THNM": "전시관", "THID": "04"},  

  {"DES": "", "THCD": "17", "IS_SHOW": "1", "LEVEL": 2, "THNM": "국립중앙박물관", "THID": "05"},  

  {"DES": "", "THCD": "17", "IS_SHOW": "1", "LEVEL": 2, "THNM": "국립민속박물관", "THID": "06"},  

  {"DES": "", "THCD": "17", "IS_SHOW": "1", "LEVEL": 2, "THNM": "국립현대미술관", "THID": "07"},  

  {"DES": "골프장/스크린골프/실내골프연습장/골프샵", "THCD": "14", "IS_SHOW": "1", "LEVEL": 1, "THNM": "골프", "THID": "00"},  

  {"DES": "시청/도청/군청/구청/동사무소/우체국/경찰서/소방서", "THCD": "16", "IS_SHOW": "1", "LEVEL": 1, "THNM": "관공서", "THID": "00"}], "ID": "308", "ERRCD": 0, "NO": "fbecb45d-8219-3850-a257-4de3dd56b5c5", "ERRMS": "SUCCESS"}"
}
```

### 3) 지오코딩

#### A. 지오코딩

| GetGeocodeByAddr |  |
|------------------|--|
| 기본정보             | <ul style="list-style-type: none"> <li>기능: 주소를 입력하여 현재 주소의 좌표를 조회하는 기능</li> <li>방식: GET/POST</li> <li>호출 URL: <a href="http://openapi.kt.com/maps/geocode/GetGeocodeByAddr">http://openapi.kt.com/maps/geocode/GetGeocodeByAddr</a></li> </ul> |
| 요청 파라미터          |  |
| addr             | 주소   |
| addrctype        | 주소코드타입(option, 0:법정동, 1:행정동, 2:행정동+법정동, 3:새주소) default : 0   |
| Timestamp        | "yyyyMMddHHmmssSSS" 포맷의 요청 시간  |
| 반환값              |  |
| 주소검색 결과          |  |

|  |              |
|--|--------------|
| COUNT  | 현재 포함된 검색결과수 |
| <b>결과 리스트</b>  |              |
| DONG_CODE  | 동코드          |
| ADDRESS  | 주소           |
| X  | X 좌표         |
| Y  | Y 좌표         |
| <b>사용 예제</b>   |              |
| <b>요청 URL</b>  |              |
| http://openapi.kt.com/maps/geocode/GetGeocodeByAddr?params=%7B%22timestamp%22%3A%222011006174933765%22%2C%22addrctype%22%3A%220%22%2C%22addr%22%3A%22%25EC%2582%25BC%25EC%2584%25B1%25EB%258F%2599%22%7D   |              |
| <b>결과값 예시</b>  |              |
| <pre>{   "sequenceno": "9999",   "errordescription": null,   "returncode": "1",   "transactionid": "d86def26-2307-323d-a9f6-c05438a870ff",   "payload": "%7B%22RES DATA%22%3A%7B%22COUNT%22%3A2%2C%22ADDRS%22%3A%5B%7B%22DONG_CODE%22%3A%221168010500%22%2C%22ADDRESS%22%3A%22%EC%84%9C%EC%9A%B8%ED%8A%B9%EB%B3%84%EC%8B%9C+%EA%B0%95%EB%82%A8%EA%B5%AC+%EC%82%BC%EC%84%B1%EB%8F%99+%22%2C%22Y%22%3A1946274%2C%22X%22%3A960713%7D%2C%7B%22DONG_CODE%22%3A%223011011800%22%2C%22ADDRESS%22%3A%22%EB%8C%80%EC%A0%84%EA%B4%91%EC%97%AD%EC%8B%9C+%EB%8F%99%EA%B5%AC+%EC%82%BC%EC%84%B1%EB%8F%99+%22%2C%22Y%22%3A1815743%2C%22X%22%3A993479%7D%5D%7D%2C%22ID%22%3A%22501%22%2C%22ERRCD%22%3A0%2C%22N0%22%3A%22d86def26-2307-323d-a9f6-c05438a870ff%22%2C%22ERRMS%22%3A%22SUCCESS%22%7D",   "errorcode": null,   "returnndescription": "SUCCESS" }  ++++++ &lt;"payload" 값을 URL 디코딩(UTF-8)&gt; ++++++ {   "RES DATA":   {     "COUNT": 2,     "ADDRS": [       {         "DONG_CODE": "1168010500",         "ADDRESS": "서울특별시 강남구 삼성동",         "Y": 1946274,         "X": 960713       },       {         "DONG_CODE": "3011011800", </pre> |              |

```

    "ADDRESS": "대전광역시 동구 삼성동",
    "Y": 1815743,
    "X": 993479
  }
]
},
"ID": "501",
"ERRCD": 0,
"NO": "d86def26-2307-323d-a9f6-c05438a870ff",
"ERRMS": "SUCCESS"
}

```

## B. 리버스지오코딩

| GetAddrByGeocode        |   |   |     |   |     |        |   |           |                                     |         |                                |         |                                      |           |                               |
|-------------------------|---|---|-----|---|-----|--------|---|-----------|-------------------------------------|---------|--------------------------------|---------|--------------------------------------|-----------|-------------------------------|
| 기본정보                    | <ul style="list-style-type: none"> <li>● 기능: 좌표를 이용하여 해당 좌표의 주소 정보를 조회하는 기능</li> <li>● 방식: GET/POST</li> <li>● 호출 URL: <a href="http://openapi.kt.com/maps/geocode/GetAddrByGeocode">http://openapi.kt.com/maps/geocode/GetAddrByGeocode</a></li> </ul>   |   |     |   |     |        |   |           |                                     |         |                                |         |                                      |           |                               |
| 요청 파라미터                 | <table border="1"> <tr> <td>x</td><td>X좌표</td></tr> <tr> <td>y</td><td>Y좌표</td></tr> <tr> <td>isMPoi</td><td>Main POI 반환여부(Option) 0:POI정보 없음(default), 1: POI 정보 있음</td></tr> <tr> <td>addrctype</td><td>주소코드타입(Option) 0:법정동(default) 1:행정동</td></tr> <tr> <td>newAddr</td><td>새주소 반환 여부(Option) 0:구주소 1 :새주소</td></tr> <tr> <td>isJibun</td><td>지번반환 여부(Option) 0:행정동까지 반환 1:지번까지 반환</td></tr> <tr> <td>Timestamp</td><td>"yyyyMMddHHmmssSSS" 포맷의 요청 시간</td></tr> </table> | x | X좌표 | y | Y좌표 | isMPoi | Main POI 반환여부(Option) 0:POI정보 없음(default), 1: POI 정보 있음 | addrctype | 주소코드타입(Option) 0:법정동(default) 1:행정동 | newAddr | 새주소 반환 여부(Option) 0:구주소 1 :새주소 | isJibun | 지번반환 여부(Option) 0:행정동까지 반환 1:지번까지 반환 | Timestamp | "yyyyMMddHHmmssSSS" 포맷의 요청 시간 |
| x                       | X좌표   |   |     |   |     |        |   |           |                                     |         |                                |         |                                      |           |                               |
| y                       | Y좌표   |   |     |   |     |        |   |           |                                     |         |                                |         |                                      |           |                               |
| isMPoi                  | Main POI 반환여부(Option) 0:POI정보 없음(default), 1: POI 정보 있음   |   |     |   |     |        |   |           |                                     |         |                                |         |                                      |           |                               |
| addrctype               | 주소코드타입(Option) 0:법정동(default) 1:행정동   |   |     |   |     |        |   |           |                                     |         |                                |         |                                      |           |                               |
| newAddr                 | 새주소 반환 여부(Option) 0:구주소 1 :새주소  |   |     |   |     |        |   |           |                                     |         |                                |         |                                      |           |                               |
| isJibun                 | 지번반환 여부(Option) 0:행정동까지 반환 1:지번까지 반환  |   |     |   |     |        |   |           |                                     |         |                                |         |                                      |           |                               |
| Timestamp               | "yyyyMMddHHmmssSSS" 포맷의 요청 시간   |   |     |   |     |        |   |           |                                     |         |                                |         |                                      |           |                               |
| 반환값                     |   |   |     |   |     |        |   |           |                                     |         |                                |         |                                      |           |                               |
| 리버스 지오코딩 결과 영역          |   |   |     |   |     |        |   |           |                                     |         |                                |         |                                      |           |                               |
| POI_COUNT               | 주변 POI 검색 결과 수  |   |     |   |     |        |   |           |                                     |         |                                |         |                                      |           |                               |
| COUNT                   | 리버스지오코딩 주소 결과 수   |   |     |   |     |        |   |           |                                     |         |                                |         |                                      |           |                               |
| POI 리스트 (Count 개수만큼 반복) |   |   |     |   |     |        |   |           |                                     |         |                                |         |                                      |           |                               |
| POI_ADDRESS             | POI 구주소   |   |     |   |     |        |   |           |                                     |         |                                |         |                                      |           |                               |
| POI_NEWADDRESS          | POI 새주소   |   |     |   |     |        |   |           |                                     |         |                                |         |                                      |           |                               |
| POI_NAME                | POI 명   |   |     |   |     |        |   |           |                                     |         |                                |         |                                      |           |                               |
| POI_DISTANCE            | 입력 XY좌표로 부터 거리  |   |     |   |     |        |   |           |                                     |         |                                |         |                                      |           |                               |
| ID_POI                  | POI ID  |   |     |   |     |        |   |           |                                     |         |                                |         |                                      |           |                               |
| X                       | X좌표   |   |     |   |     |        |   |           |                                     |         |                                |         |                                      |           |                               |

|  |      |
|--|------|
| Y  | Y좌표  |
| <b>ADDR 리스트 (Count 개수만큼 반복)</b>  |      |
| DONG_CODE  | 동 코드 |
| ADDRESS  | 주소   |
| X  | X좌표  |
| Y  | Y좌표  |
| <b>예외</b>  |      |
| newAddr 새주소 반환 여부 (Option) 사용시 새주소 데이터가 없으면 구주소 데이터가 결과로 반환  |      |
|  |      |
| <b>사용 예제</b>   |      |
| <b>요청 URL</b>  |      |
| <a href="http://openapi.kt.com/maps/geocode/GetAddrByGeocode?params=%7B%22timestamp%22%3A%2220111006175325187%22%2C%22addrctype%22%3A%220%22%2C%22isMPoi%22%3A%220%22%2C%22newAddr%22%3A%220%22%2C%22y%22%3A%221950147%22%2C%22x%22%3A%22953051%22%2C%22isJibun%22%3A%220%22%7D">http://openapi.kt.com/maps/geocode/GetAddrByGeocode?params=%7B%22timestamp%22%3A%2220111006175325187%22%2C%22addrctype%22%3A%220%22%2C%22isMPoi%22%3A%220%22%2C%22newAddr%22%3A%220%22%2C%22y%22%3A%221950147%22%2C%22x%22%3A%22953051%22%2C%22isJibun%22%3A%220%22%22%7D</a>   |      |
| <b>결과값 예시</b>  |      |
| <pre>{   "sequenceno": "9999",   "errordescription": null,   "returncode": "1",   "transactionid": "84d24b23-9351-3393-baee-aced8dd386cb",   "payload": "%7B%22RESDATA%22%3A%7B%22COUNT%22%3A1%2C%22ADDRS%22%3A%5B     %7B%22DONG_CODE%22%3A%224128111300%22%2C%22ADDRESS%22%3A%22       %EA%B2%BD%EA%B8%B0%EB%8F%84+%EA%B3%A0%EC%96%91%EC%8B%9C+%EB       %8D%95%EC%96%91%EA%B5%AC+%EC%9A%A9%EB%91%90%EB%8F%99%22%2C%22Y       %22%3A1957626%2C%22X%22%3A946315%7D%5D%7D%2C%22ID%22%3A%22502%22%2C       %22ERRCD%22%3A0%2C%22N0%22%3A%2284d24b23-9351-3393-baee-aced8dd386cb%22       %2C%22ERRMS%22%3A%22SUCCESS%22%7D",   "errorcode": null,   "returndescription": "SUCCESS" }  ++++++ &lt;"payload" 값을 URL 디코딩(UTF-8)&gt; ++++++ {   "RESDATA": {     "COUNT": 1,     "ADDRS": [       {         "DONG_CODE": "4128111300",         "ADDRESS": "서울시 강남구 삼성동"         "Y": 1957626,</pre> |      |

```

    "X":946315
  }
]
},
"ID":"502",
"ERRCD":0,
"NO":"84d24b23-9351-3393-baee-aced8dd386cb",
"ERRMS":"SUCCESS"
}

```

### C. 새주소변환(구주소)

| GetNewStyleAddress  |  |
|---|--|
| 기본정보  | <ul style="list-style-type: none"> <li>기능: 구주소를 새주소로 변환한 결과를 조회하는 기능</li> <li>방식: GET/POST</li> <li>호출 URL: <a href="http://openapi.kt.com/maps/geocode/GetNewStyleAddress.xml">http://openapi.kt.com/maps/geocode/GetNewStyleAddress.xml</a></li> </ul> |
| 요청 파라미터   |  |
| addr  | 구 주소   |
| addrcdtype  | 주소코드타입(Option) 0:법정동(default) 1:행정동  |
| timestamp   | "yyyyMMddHHmmssSSS" 포맷의 요청 시간  |
| 반환값   |  |
| 새주소 변환 결과   |  |
| COUNT   | 현재 포함된 검색결과수   |
| 결과 리스트 (ADDRS)  |  |
| DONG_CODE   | 동코드  |
| ADDRESS   | 주소   |
| X   | X 좌표   |
| Y   | Y 좌표   |
| 사용 예제   |  |
| 요청 URL  |  |
| <a href="http://openapi.kt.com/maps/geocode/GetNewStyleAddress?params=%7B%22timestamp%22%3A%2220120413092033765%22%2C%22sequenceno%22%3A%22%22%2C%22addrcdtype%22%3A%221%22%2C%22transactnid%22%3A%22%22%2C%22userid%22%3A%22%22%2C%22screenid%22%3A%22%22%2C%22addr%22%3A%22%25EC%2584%259C%25EC%259A%25B8%25ED%258A%25B9%25EB%25B3%2584%25EC%258B%259C%25B%25EC%259D%2580%25ED%258F%2589%25EA%25B5%25AC%2B%25EA%25B0%2588%25ED%2598%2584%25E%25B%25F%2599%2B432-15%22%7D">http://openapi.kt.com/maps/geocode/GetNewStyleAddress?params=%7B%22timestamp%22%3A%2220120413092033765%22%2C%22sequenceno%22%3A%22%22%2C%22addrcdtype%22%3A%221%22%2C%22transactnid%22%3A%22%22%2C%22userid%22%3A%22%22%2C%22screenid%22%3A%22%22%2C%22addr%22%3A%22%25EC%2584%259C%25EC%259A%25B8%25ED%258A%25B9%25EB%25B3%2584%25EC%258B%259C%25B%25EC%259D%2580%25ED%258F%2589%25EA%25B5%25AC%2B%25EA%25B0%2588%25ED%2598%2584%25E%25B%25F%2599%2B432-15%22%7D</a> |  |
| 결과값 예시  |  |

```
{"sequenceno":"9999","errordescription":null,"returncode":"1","transactionid":"bfd2a1c4-4e1f-3eaa-8967-7957c47a22b3","payload":%7B%22RESDATA%22%3A%7B%22COUNT%22%3A1%2C%22ADDRS%22%3A%5B%7B%22DONG_CODE%22%3A%221138000000%22%2C%22ADDRESS%22%3A%22%EC%84%9C%EC%9A%B8%ED%8A%B9%EB%B3%84%EC%8B%9C+%EC%9D%80%ED%8F%89%EA%B5%AC+%EC%97%B0%EC%84%9C%EB%A1%9C29%EA%B8%B8+36%22%2C%22Y%22%3A1958007%2C%22X%22%3A948516%7D%5D%7D%2C%22ID%22%3A%22503%22%2C%22ERRCD%22%3A0%2C%22NO%22%3A%22bfd2a1c4-4e1f-3eaa-8967-7957c47a22b3%22%2C%22ERRMS%22%3A%22SUCCESS%22%7D","errorcode":null,"returndescription":"SUCCESS"}
```

+++++<“payload” 값을 URL 디코딩(UTF-8)> +++++

""

```
{"RESDATA": {"COUNT":1,"ADDRS": [{"DONG_CODE": "1138000000","ADDRESS": "서울특별시 은평구 연서로 29길 36","Y":1958007,"X":948516}], "ID": "503", "ERRCD": 0, "NO": "bfd2a1c4-4e1f-3eaa-8967-7957c47a22b3", "ERRMS": "SUCCESS"}}
```

## D. 단계별 주소조회

| GetSubAddress    |   |
|------------------|---|
| 기본정보             | <ul style="list-style-type: none"> <li>기능: 지정한 주소 코드에 따른 단계별 주소 정보를 조회한다.</li> <li>방식: GET/POST</li> <li>호출 URL: <a href="http://openapi.kt.com/maps/geocode/GetSubAddress">http://openapi.kt.com/maps/geocode/GetSubAddress</a></li> </ul> |
| 요청 파라미터          |   |
| addrccd          | 주소코드(Option)  |
| addrccdtype      | 주소코드타입(Option) 0:법정동(default) 1:행정동   |
| timestamp        | “yyyyMMddHHmmssSSS” 포맷의 요청 시간   |
| 반환값              |   |
| 주소검색 결과 영역(ADDR) |   |
| 주소 리스트           |   |
| BADM, HADM       | addrccdtype 에 따라 변함 (addrccdtype:0=BADM, 1=HADM)  |
| IS_MAIN          | 대표 여부   |
| NAME             | 해당 주소코드 명칭  |
| LEVEL            | 주소 단계 (시도, 시군구, 동, 읍면리)   |



```
7%AD%EC%8B%9C%22%2C%22HADM%22%3A%2231%22%2C%22LEVEL%22%3A%221%22%2C%22FULL_ADD  
R%22%3A%22%EC%9A%B8%EC%82%B0%EA%B4%91%EC%97%AD%EC%8B%9C%22%2C%22Y%22%3A%22172  
8468%22%2C%22X%22%3A%221164210%22%7D%2C  
%7B%22IS_MAIN%22%3A%221%22%2C%22NAME%22%3A%22%EA%B2%BD%EA%B8%B0%EB%8F%84%22%2  
C%22HADM%22%3A%2241%22%2C%22LEVEL%22%3A%221%22%2C%22FULL_ADDR%22%3A%22%EA%B2%  
D%EA%B8%B0%EB%8F%84%22%2C%22Y%22%3A%221919671%22%2C%22X%22%3A%22956443%22%7D%2C  
%7B%22IS_MAIN%22%3A%221%22%2C%22NAME%22%3A%22%EA%B0%95%EC%9B%90%EB%8F%84%22%2C  
%22HADM%22%3A%2242%22%2C%22LEVEL%22%3A%221%22%2C%22FULL_ADDR%22%3A%22%EA%B0%95  
%EC%9B%90%EB%8F%84%22%2C%22Y%22%3A%221987310%22%2C%22X%22%3A%221020203%22%7D%2C  
%7B%22IS_MAIN%22%3A%221%22%2C%22NAME%22%3A%22%EC%B6%A9%EC%B2%AD%EB%B6%81%EB%8  
F%84%22%2C%22HADM%22%3A%2243%22%2C%22LEVEL%22%3A%221%22%2C%22FULL_ADDR%22%3A%22  
%EC%B6%A9%EC%B2%AD%EB%B6%81%EB%8F%84%22%2C%22Y%22%3A%221848689%22%2C%22X%22%3A  
%22999224%22%7D%2C  
%7B%22IS_MAIN%22%3A%221%22%2C%22NAME%22%3A%22%EC%B6%A9%EC%B2%AD%EB%82%A8%EB%8  
F%84%22%2C%22HADM%22%3A%2244%22%2C%22LEVEL%22%3A%221%22%2C%22FULL_ADDR%22%3A%22  
%EC%B6%A9%EC%B2%AD%EB%82%A8%EB%8F%84%22%2C%22Y%22%3A%221814375%22%2C%22X%22%3A  
%22992905%22%7D%2C  
%7B%22IS_MAIN%22%3A%221%22%2C%22NAME%22%3A%22%EC%A0%84%EB%9D%BC%EB%B6%81%EB%8  
F%84%22%2C%22HADM%22%3A%2245%22%2C%22LEVEL%22%3A%221%22%2C%22FULL_ADDR%22%3A%22  
%EC%A0%84%EB%9D%BC%EB%B6%81%EB%8F%84%22%2C%22Y%22%3A%221758282%22%2C%22X%22%3A  
%22964644%22%7D%2C  
%7B%22IS_MAIN%22%3A%221%22%2C%22NAME%22%3A%22%EC%A0%84%EB%9D%BC%EB%82%A8%EB%8  
F%84%22%2C%22HADM%22%3A%2246%22%2C%22LEVEL%22%3A%221%22%2C%22FULL_ADDR%22%3A%22  
%EC%A0%84%EB%9D%BC%EB%82%A8%EB%8F%84%22%2C%22Y%22%3A%221647326%22%2C%22X%22%3A  
%22905153%22%7D%2C  
%7B%22IS_MAIN%22%3A%221%22%2C%22NAME%22%3A%22%EA%B2%BD%EC%83%81%EB%B6%81%EB%8F  
%84%22%2C%22HADM%22%3A%2247%22%2C%22LEVEL%22%3A%221%22%2C%22FULL_ADDR%22%3A%22  
%EA%B2%BD%EC%83%81%EB%B6%81%EB%8F%84%22%2C%22Y%22%3A%221766767%22%2C%22X%22%3A  
%221099335%22%7D%2C  
%7B%22IS_MAIN%22%3A%221%22%2C%22NAME%22%3A%22%EA%B2%BD%EC%83%81%EB%82%A8%EB%8  
F%84%22%2C%22HADM%22%3A%2248%22%2C%22LEVEL%22%3A%221%22%2C%22FULL_ADDR%22%3A%22  
%EA%B2%BD%EC%83%81%EB%82%A8%EB%8F%84%22%2C%22Y%22%3A%221694311%22%2C%22X%22%3A  
%221108495%22%7D%2C  
%7B%22IS_MAIN%22%3A%221%22%2C%22NAME%22%3A%22%EC%A0%9C%EC%A3%BC%ED%8A%B9%EB%8  
B%3%84%EC%9E%90%EC%B9%98%EB%8F%84%22%2C%22HADM%22%3A%2250%22%2C%22LEVEL%22%3A%22  
1%22%2C%22FULL_ADDR%22%3A%22%EC%A0%9C%EC%A3%BC%ED%8A%B9%EB%B3%84%EC%9E%90%EC%  
B%9%98%EB%8F%84%22%2C%22Y%22%3A%221500131%22%2C%22X%22%3A%22906937%22%7D%5D%7D%2  
C%22ID%22%3A%22504%22%2C%22ERRCD%22%3A%22NO%22%3A%2204f0bc41-ea84-3780-9fb3-  
4508a4c53c1a%22%2C%22ERRMS%22%3A%22SUCCESS%22%7D","errorcode":null,"returnndescription":"SUCCES  
S"}
```

++++++<“payload” 값을 URL 디코딩(UTF-8)> +++++

""

```
{"RESDATA": {"ADDR": [{"IS_MAIN": "1", "NAME": "서울특별시", "HADM": "11", "LEVEL": "1", "FULL_ADDR": "서울특별시", "Y": "1952015", "X": "953887"}, {"IS_MAIN": "1", "NAME": "부산광역시", "HADM": "26", "LEVEL": "1", "FULL_ADDR": "부산광역시", "Y": "1688342", "X": "1143449"}, {"IS_MAIN": "1", "NAME": "대구광역시", "HADM": "27", "LEVEL": "1", "FULL_ADDR": "대구광역시", "Y": "1764429", "X": "1099469"}, {"IS_MAIN": "1", "NAME": "인천광역시", "HADM": "28", "LEVEL": "1", "FULL_ADDR": "인천광역시", "Y": "1939918", "X": "929703"}, {"IS_MAIN": "1", "NAME": "광주광역시", "HADM": "29", "LEVEL": "1", "FULL_ADDR": "광주광역시", "Y": "1685164", "X": "940927"}, {"IS_MAIN": "1", "NAME": "대전광역시", "HADM": "30", "LEVEL": "1", "FULL_ADDR": "대전광역시", "Y": "1817000", "X": "989665"}, {"IS_MAIN": "1", "NAME": "울산광역시", "HADM": "31", "LEVEL": "1", "FULL_ADDR": "울산광역시", "Y": "1728468", "X": "1164210"}, {"IS_MAIN": "1", "NAME": "경기도", "HADM": "41", "LEVEL": "1", "FULL_ADDR": "경기도", "Y": "1919671", "X": "956443"}, {"IS_MAIN": "1", "NAME": "강원도", "HADM": "42", "LEVEL": "1", "FULL_ADDR": "강원도", "Y": "1987310", "X": "1020203"}, {"IS_MAIN": "1", "NAME": "충청북도", "HADM": "43", "LEVEL": "1", "FULL_ADDR": "충청북도", "Y": "1848689", "X": "999224"}, {"IS_MAIN": "1", "NAME": "충청남도", "HADM": "44", "LEVEL": "1", "FULL_ADDR": "충청남도", "Y": "1814375", "X": "992905"}, {"IS_MAIN": "1", "NAME": "전라북도", "HADM": "45", "LEVEL": "1", "FULL_ADDR": "전라북도", "Y": "1758282", "X": "964644"}, {"IS_MAIN": "1", "NAME": "전라남도", "HADM": "46", "LEVEL": "1", "FULL_ADDR": "전라남도", "Y": "1647326", "X": "905153"}, {"IS_MAIN": "1", "NAME": "경상북도", "HADM": "47", "LEVEL": "1", "FULL_ADDR": "경상북도", "Y": "1766767", "X": "1099335"}, {"IS_MAIN": "1", "NAME": "경상남도", "HADM": "48", "LEVEL": "1", "FULL_ADDR": "경상남도", "Y": "1694311", "X": "1108495"}, {"IS_MAIN": "1", "NAME": "제주특별자치도", "HADM": "50", "LEVEL": "1", "FULL_ADDR": "제주특별자치도", "Y": "1500131", "X": "906937"}], "ID": "504", "ERRCD": 0, "NO": "04f0bc41-ea84-3780-9fb3-4508a4c53c1a", "ERRMS": "SUCCESS"}}
```

## 4) 기타

## A. 좌표 변환

|  |   |
|--|---|
| 기본정보   | <b>ConvertCoord</b>   |
|  | <ul style="list-style-type: none"> <li>● 기능: 임의의 좌표 체계로 변환한 X, Y 좌표를 반환한다. ( 단, 변환 전 후의 좌표 체계가 서로 다를 경우에만 결과가 반환된다. )</li> </ul>  |
|  | <ul style="list-style-type: none"> <li>● 방식: GET/POST</li> </ul>  |
|  | <ul style="list-style-type: none"> <li>● 호출 URL: <a href="http://openapi.kt.com/maps/etc/ConvertCoord">http://openapi.kt.com/maps/etc/ConvertCoord</a></li> </ul>   |
| <b>요청 파라미터</b>   |   |
| x  | 변환전 X 좌표  |
| y  | 변환전 Y 좌표  |
| inCoordType  | 입력한 X, Y 좌표 타입 (좌표계 타입 참조)  |
| outCoordType   | 변환 후 좌표 타입 (좌표계 타입 참조)  |
| 좌표계 타입   | <ol style="list-style-type: none"> <li>1. UTMK (COORDTYPE = 0)</li> <li>2. TM WEST (COORDTYPE = 1)</li> <li>3. TM MID (COORDTYPE = 2)</li> <li>4. TM EAST (COORDTYPE = 3)</li> <li>5. KATEC (COORDTYPE = 4)</li> <li>6. UTM52 (COORDTYPE = 5)</li> <li>7. UTM51 (COORDTYPE = 6)</li> <li>8. WGS84 (COORDTYPE = 7)</li> <li>9. BESSEL (COORDTYPE = 8)</li> </ol> |
| timestamp  | "yyyyMMddHHmmssSSS" 포맷의 요청 시간   |
| <b>반환값</b>   |   |
| <b>좌표변환 결과 영역(COORD)</b>   |   |
| X  | 변환 후 X 좌표   |
| Y  | 변환 후 Y 좌표   |
| COORDTYPE  | 좌표타입  |
| <b>사용 예제</b>   |   |
| <b>요청 URL</b>  |   |
| <pre>http://openapi.kt.com/maps/etc/ConvertCoord?params=%7B%22timestamp%22%3A %222011007104119704%22%2C%22inCoordType%22%3A%220%22%2C%22outCoordType%22%3A%227 %22%2C%22y%22%3A%221950435%22%2C%22x%22%3A%22951203%22%7D</pre> |   |
| <b>결과값 예시</b>  |   |
| <pre>{   "sequenceno": "9999",   "errordescription": null,</pre>   |   |

```

"returncode":"1",
"transactionid":"f33f27c3-c00f-3ec1-9f8e-bdc25d706618",
"payload": "%7B%22RESDATA%22%3A%7B%22C00RD%22%3A%7B%22C00RDTYPE
%22%3A%22LLW%22%2C%22Y%22%3A%2237.551966221235176%22
%2C%22X%22%3A%22126.9475548915227%22%7D%7D%2C%22ID%22
%3A%22601%22%2C%22ERRCD%22%3A0%2C%22N0%22%3A
%22f33f27c3-c00f-3ec1-9f8e-bdc25d706618%22%2C%22ERRMS%22
%3A%22SUCCESS%22%7D",
"errorcode":null,
"returnndescription":"SUCCESS"
}

+++++<"payload" 값을 URL 디코딩(UTF-8)> ++++++
{
  "RESDATA":
  {
    "COORD":
    {
      "COORDTYPE": "LLW",
      "Y": "37.551966221235176",
      "X": "126.9475548915227"
    }
  },
  "ID": "601",
  "ERRCD": 0,
  "NO": "72c4d819-2651-3464-bc9b-49113a71473d",
  "ERRMS": "SUCCESS"
}

```

## B. 경로 탐색

| RouteSearch |  |
|-------------|--|
| 기본정보        | <ul style="list-style-type: none"> <li>기능: 자동차 경로 탐색을 요청하고 결과를 반환한다.</li> <li>방식: GET/POST</li> <li>호출 URL: <a href="http://openapi.kt.com/maps/etc/RouteSearch">http://openapi.kt.com/maps/etc/RouteSearch</a></li> </ul> |
| 요청 파라미터     |  |
| SX          | 출발지 X좌표  |
| SY          | 출발지 Y좌표  |
| EX          | 도착지 X좌표  |
| EY          | 도착지 Y좌표  |
| RPTYPE      | 경로 탐색 종류( Option, default 값 RPTYPE=0 ) <ol style="list-style-type: none"> <li>자동차 길찾기 (RPTYPE=0)</li> </ol>  |
| COORDTYPE   | 좌표계 타입( Option , default 값 COORDTYPE = 4 ) <ol style="list-style-type: none"> <li>Geographic (COORDTYPE = 0)</li> </ol>  |

|                       |  |
|-----------------------|--|
|                       | <ol style="list-style-type: none"> <li>2. TM WEST (COORDTYPE = 1)</li> <li>3. TM MID (COORDTYPE = 2)</li> <li>4. TM EAST (COORDTYPE = 3)</li> <li>5. KATEC (COORDTYPE = 4)</li> <li>6. UTM52 (COORDTYPE = 5)</li> <li>7. UTM51 (COORDTYPE = 6)</li> <li>8. UTMK (COORDTYPE = 7)</li> </ol>                             |
| VX1                   | 경유지 첫번째 X 좌표 (Option, 자동차 길찾기만 적용)   |
| VY1                   | 경유지 첫번째 Y 좌표 (Option, 자동차 길찾기만 적용)   |
| VX2                   | 경유지 두번째 X 좌표 (Option, 자동차 길찾기만 적용)   |
| VY2                   | 경유지 두번째 Y 좌표 (Option, 자동차 길찾기만 적용)   |
| VX3                   | 경유지 세번째 X 좌표 (Option, 자동차 길찾기만 적용)   |
| VY3                   | 경유지 세번째 Y 좌표 (Option, 자동차 길찾기만 적용)   |
| PRIORITY              | <p><b>[자동차 길찾기(RPTYPE=0) 인 경우]</b></p> <p><u>자동차</u>    <u>경로탐색</u>    <u>우선</u>    <u>순위</u>    (Option, 기본값<br/>PRIORITY=0)</p> <ol style="list-style-type: none"> <li>1. 최단 거리 우선 (PRIORITY = 0)</li> <li>2. 고속도로 우선 (PRIORITY = 1)</li> <li>3. 무료 도로 우선 (PRIORITY = 2)</li> <li>4. 최적 경로 (PRIORITY = 3)</li> </ol> |
| timestamp             | "yyyyMMddHHmmssSSS" 포맷의 요청 시간  |
| <b>반환값</b>            |  |
| 1. 자동차 길찾기 결과(SROUTE) |  |
| isRoute               | 경로탐색 성공 여부( 성공 : true, 실패 : false )<br>(참고 : 실패 결과 메시지)  |
| <b>LINKS</b>          |  |
| coordtype (속성)        | 좌표체계   |
| link_cnt (속성)         | 경로탐색에 사용된 링크의 개수   |
| link_ver (속성)         | 데이터 버전   |
| mbr_maxx (속성)         | 경로탐색 결과 MBR  |
| mbr_maxy (속성)         | 경로탐색 결과 MBR  |
| mbr_minx (속성)         | 경로탐색 결과 MBR  |
| mbr_miny (속성)         | 경로탐색 결과 MBR  |
| link                  |  |
| <i>link</i> 하위 항목     |  |

|  |                                      |
|--|--------------------------------------|
| length (속성)  | 링크의 길이                               |
| vertex_cnt (속성)  | 보간점 개수                               |
| vertex   |                                      |
| <b>vertex 하위 항목</b>  |                                      |
| x (속성)   | 보간점 X 좌표                             |
| y (속성)   | 보간점 Y 좌표                             |
| <b>ROUTE 하위 항목</b>   |                                      |
| rg_count (속성)  | RG 데이터 개수                            |
| total_dist (속성)  | 경로탐색 거리                              |
| total_time (속성)  | 경로탐색 시간                              |
| rg   |                                      |
| <b>rg 하위 항목</b>  |                                      |
| dir_name (속성)  | 방면정보                                 |
| link_idx (속성)  | RG 데이터 index                         |
| nextdist (속성)  | 다음 링크까지의 거리                          |
| node_name (속성)   | 노드이름                                 |
| type (속성)  | RG type<br>(참고 : 자동차 길찾기 RG type 정의) |
| x (속성)   | 방면정보 X 좌표                            |
| y (속성)   | 방면정보 Y 좌표                            |
| 자동차 길찾기 결과(SROUTE)   |                                      |
| <b>사용 예제</b>   |                                      |
| <b>요청 URL</b>  |                                      |
| http://openapi.kt.com/maps/etc/RouteSearch?params=%7B%22timestamp%22%3A<br>%2220111007104431360%22%2C%22SY%22%3A%221950203%22%2C%22SX%22%3A%22952715%22%2C<br>%22RPTYPE%22%3A%220%22%2C%22EX%22%3A%22954643%22%2C%22COORDTYPE%22%3A%227<br>%22%2C%22EY%22%3A%221951419%22%7D   |                                      |
| <b>결과값 예시</b>  |                                      |
| {<br>"sequenceno": "9999",<br>"errordescription": null,<br>"returncode": "1",<br>"transactionid": "13a99c72-44f7-3e05-8838-59e5fd5b3256",<br>"payload": "%7B%22RESDATA%22%3A%7B%22ROUTE%22%3A%7B%22LINKS%22%3A%7B<br>%22mbr_maxx%22%3A%22954642%22%2C%22link%22%3A%5B%7B%22vertex%22<br>%3A%5B%7B%22y%22%3A%221950209%22%2C%22x%22%3A%22952762%22%7D<br>%2C%7B%22y%22%3A%221950198%22%2C%22x%22%3A%22952773%22%7D%2C<br>%7B%22y%22%3A%221950188%22%2C%22x%22%3A%22952781%22%7D%5D%2C |                                      |

```
%22length%22%3A%2227%22%2C%22vertex_cnt%22%3A%223%22%7D%2C%7B  
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%22%3A%2226%22%2C%22vertex_cnt%22%3A%222%22%7D%2C%7B%22vertex  
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%7B%22vertex%22%3A%5B%7B%22y%22%3A%221950156%22%2C%22x%22%3A%22953051  
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```

```
%7D%2C%7B%22y%22%3A%221950125%22%2C%22x%22%3A%22953145%22%7D%2C%7B%22y  
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%22%3A%221823%22%2C%22type%22%3A%221001%22%2C%22node_name%22%3A%22  
%22%2C%22y%22%3A%221951412.9619372042%22%2C%22x%22%3A  
%22954642.4770634777%22%7D%5D%7D%2C%22isRoute%22%3A%22true%22%7D%7D  
%2C%22ID%22%3A%22602%22%2C%22ERRCD%22%3A%2C%22N0%22%3A  
%2213a99c72-44f7-3e05-8838-59e5fd5b3256%22%2C%22ERRMS  
%22%3A%22SUCCESS%22%7D",  
"errorcode":null,  
"returnndescription":"SUCCESS"  
}  
  
+++++ <"payload" 값을 URL 디코딩 (UTF-8)> +++++  
{  
    "RESDATA":  
    {  
        "SROUTE":  
        {  
            "LINKS":  
            {  
                "mbr_maxx": "954642",  
                "link":  
                [  
                    {  
                        "vertex":  
                        [  
                            {"y": "1950209", "x": "952762"},  
                            {"y": "1950198", "x": "952773"},  
                            {"y": "1950188", "x": "952781"}  
                        ],  
                        "length": "27",  
                        "vertex_cnt": "3"  
                    },  
                    {  
                        "vertex":  
                        [  
                            {"y": "1950188", "x": "952781"},  
                            {"y": "1950183", "x": "952786"},  
                            {"y": "1950172", "x": "952793"},  
                            {"y": "1950167", "x": "952795"},  
                            {"y": "1950125", "x": "952807"}  
                        ]  
                    }  
                ]  
            }  
        }  
    }  
}
```

```
],
  "length": "69",
  "vertex_cnt": "5"
},
{
  "vertex": [{"y": "1950125", "x": "952807"}, {"y": "1950122", "x": "952846"}],
  "length": "38",
  "vertex_cnt": "2"
},
{
  "vertex": [{"y": "1950122", "x": "952846"}, {"y": "1950126", "x": "952871"}],
  "length": "26",
  "vertex_cnt": "2"
},
{
  "vertex": [{"y": "1950126", "x": "952871"}, {"y": "1950129", "x": "952906"}],
  "length": "35",
  "vertex_cnt": "2"
},
{
  "vertex": [{"y": "1950129", "x": "952906"}, {"y": "1950135", "x": "952936"}],
  "length": "29",
  "vertex_cnt": "2"
},
{
  "vertex": [{"y": "1950135", "x": "952936"}, {"y": "1950138", "x": "952947"}],
  "length": "11",
  "vertex_cnt": "2"
},
{
  "vertex": [{"y": "1950138", "x": "952947"}, {"y": "1950144", "x": "952985"}],
  "length": "39",
  "vertex_cnt": "2"
},
{
  "vertex": [{"y": "1950144", "x": "952985"}, {"y": "1950175", "x": "953015"}],
  "length": "42",
  "vertex_cnt": "2"
},
{
  "vertex": [{"y": "1950175", "x": "953015"}, {"y": "1950170", "x": "953025"}],
  "length": "10",
  "vertex_cnt": "2"
},
{
  "vertex": [{"y": "1950170", "x": "953025"}, {"y": "1950165", "x": "953033"}],
  "length": "9",
  "vertex_cnt": "2"
},
{
  "vertex": [{"y": "1950165", "x": "953033"}, {"y": "1950156", "x": "953051"}],
  "length": "20",
  "vertex_cnt": "2"
}
```

```
"vertex_cnt":2"
},
{
  "vertex": [{"y": "1950156", "x": "953051"}, {"y": "1950146", "x": "953074"}],
  "length": "25",
  "vertex_cnt": "2"
},
{
  "vertex":
  [
    {"y": "1950146", "x": "953074"}, {"y": "1950144", "x": "953078"}, {"y": "1950142", "x": "953084"}, {"y": "1950142", "x": "953090"}, {"y": "1950146", "x": "953112"}, {"y": "1950148", "x": "953118"}
  ],
  "length": "45",
  "vertex_cnt": "6"
},
{
  "vertex": [{"y": "1950148", "x": "953118"}, {"y": "1950142", "x": "953124"}],
  "length": "8",
  "vertex_cnt": "2"
},
{
  "vertex":
  [
    {"y": "1950142", "x": "953124"}, {"y": "1950125", "x": "953145"}, {"y": "1950120", "x": "953152"}
  ],
  "length": "35",
  "vertex_cnt": "3"
},
{
  "vertex": [{"y": "1950120", "x": "953152"}, {"y": "1950110", "x": "953176"}],
  "length": "25",
  "vertex_cnt": "2"
},
{
  "vertex": [{"y": "1950110", "x": "953176"}, {"y": "1950165", "x": "953167"}],
  "length": "55",
  "vertex_cnt": "2"
},
{
  "vertex": [{"y": "1950165", "x": "953167"}, {"y": "1950204", "x": "953161"}],
  "length": "38",
  "vertex_cnt": "2"
},
{
  "vertex": [{"y": "1950165", "x": "953167"}]
```

```
[  
    {"y": "1950204", "x": "953161"},  
    {"y": "1950281", "x": "953151"},  
    {"y": "1950283", "x": "953150"}  
,  
    "length": "80",  
    "vertex_cnt": "3"  
,  
{  
    "vertex": [{"y": "1950283", "x": "953150"}, {"y": "1950307", "x": "953145"}],  
    "length": "24",  
    "vertex_cnt": "2"  
,  
{  
    "vertex": [{"y": "1950307", "x": "953145"}, {"y": "1950392", "x": "953131"}],  
    "length": "85",  
    "vertex_cnt": "2"  
,  
{  
    "vertex": [{"y": "1950392", "x": "953131"}, {"y": "1950450", "x": "953121"}],  
    "length": "59",  
    "vertex_cnt": "2"  
,  
{  
    "vertex": [{"y": "1950450", "x": "953121"}, {"y": "1950501", "x": "953108"}],  
    "length": "52",  
    "vertex_cnt": "2"  
,  
{  
    "vertex": [{"y": "1950501", "x": "953108"}, {"y": "1950555", "x": "953100"}],  
    "length": "54",  
    "vertex_cnt": "2"  
,  
{  
    "vertex": [{"y": "1950555", "x": "953100"}, {"y": "1950561", "x": "953099"}],  
    "length": "6",  
    "vertex_cnt": "2"  
,  
{  
    "vertex": [{"y": "1950561", "x": "953099"}, {"y": "1950591", "x": "953101"}],  
    "length": "29",  
    "vertex_cnt": "2"  
,  
{  
    "vertex": [{"y": "1950591", "x": "953101"}, {"y": "1950653", "x": "953103"}],  
    "length": "62",  
    "vertex_cnt": "2"  
,  
{  
    "vertex": [{"y": "1950653", "x": "953103"}, {"y": "1950662", "x": "953103"}],  
    "length": "8",  
    "vertex_cnt": "2"
```

```
},
{
  "vertex": [{"y": "1950662", "x": "953103"}, {"y": "1950688", "x": "953102"}],
  "length": "25",
  "vertex_cnt": "2"
},
{
  "vertex": [{"y": "1950688", "x": "953102"}, {"y": "1950717", "x": "953102"}],
  "length": "29",
  "vertex_cnt": "2"
},
{
  "vertex": [{"y": "1950717", "x": "953102"}, {"y": "1950736", "x": "953102"}],
  "length": "18",
  "vertex_cnt": "2"
},
{
  "vertex": [{"y": "1950736", "x": "953102"}, {"y": "1950752", "x": "953101"}],
  "length": "16",
  "vertex_cnt": "2"
},
{
  "vertex":
  [
    {"y": "1950752", "x": "953101"}, {"y": "1950829", "x": "953102"}, {"y": "1950868", "x": "953103"}, {"y": "1950896", "x": "953105"}, {"y": "1950903", "x": "953107"}, {"y": "1950910", "x": "953110"}, {"y": "1950916", "x": "953113"}, {"y": "1950921", "x": "953116"}, {"y": "1950926", "x": "953120"}, {"y": "1950930", "x": "953125"}, {"y": "1950935", "x": "953133"}, {"y": "1950939", "x": "953141"}, {"y": "1950943", "x": "953149"}, {"y": "1950949", "x": "953165"}
  ],
  "length": "229",
  "vertex_cnt": "14"
},
{
  "vertex":
  [
    {"y": "1950949", "x": "953165"}, {"y": "1950948", "x": "953236"}, {"y": "1950948", "x": "953270"}, {"y": "1950948", "x": "953332"}, {"y": "1950927", "x": "953457"}, {"y": "1950924", "x": "953481"}, {"y": "1950925", "x": "953501"},
```

```
{"y": "1950928", "x": "953525"},  
 {"y": "1950936", "x": "953553"},  
 {"y": "1950950", "x": "953590"},  
 {"y": "1951008", "x": "953708"}  
],  
 "length": "562",  
 "vertex_cnt": "11"  
},  
{  
 "vertex": [{"y": "1951008", "x": "953708"}, {"y": "1951014", "x": "953718"}],  
 "length": "11",  
 "vertex_cnt": "2"  
},  
{  
 "vertex": [{"y": "1951014", "x": "953718"}, {"y": "1951018", "x": "953728"}],  
 "length": "10",  
 "vertex_cnt": "2"  
},  
{  
 "vertex": [{"y": "1951018", "x": "953728"}, {"y": "1951024", "x": "953738"}],  
 "length": "11",  
 "vertex_cnt": "2"  
},  
{  
 "vertex": [{"y": "1951024", "x": "953738"}, {"y": "1951026", "x": "953744"}],  
 "length": "6",  
 "vertex_cnt": "2"  
},  
{  
 "vertex": [{"y": "1951026", "x": "953744"}, {"y": "1951033", "x": "953758"}],  
 "length": "15",  
 "vertex_cnt": "2"  
},  
{  
 "vertex": [{"y": "1951033", "x": "953758"}, {"y": "1951045", "x": "953787"}],  
 "length": "31",  
 "vertex_cnt": "2"  
},  
{  
 "vertex": [{"y": "1951045", "x": "953787"}, {"y": "1951065", "x": "953830"}],  
 "length": "46",  
 "vertex_cnt": "2"  
},  
{  
 "vertex": [  
 {"y": "1951065", "x": "953830"},  
 {"y": "1951071", "x": "953842"},  
 {"y": "1951079", "x": "953854"},  
 {"y": "1951091", "x": "953868"}  
],  
 "length": "46",  
}
```

```
    "vertex_cnt": "4"
},
{
  "vertex": [{"y": "1951091", "x": "953868"}, {"y": "1951116", "x": "953891"}],
  "length": "33",
  "vertex_cnt": "2"
},
{
  "vertex": [{"y": "1951116", "x": "953891"}, {"y": "1951136", "x": "953907"}],
  "length": "25",
  "vertex_cnt": "2"
},
{
  "vertex": [{"y": "1951136", "x": "953907"}, {"y": "1951159", "x": "953926"}],
  "length": "29",
  "vertex_cnt": "2"
},
{
  "vertex":
  [
    {"y": "1951159", "x": "953926"},
    {"y": "1951176", "x": "953939"},
    {"y": "1951189", "x": "953951"}
  ],
  "length": "39",
  "vertex_cnt": "3"
},
{
  "vertex": [{"y": "1951189", "x": "953951"}, {"y": "1951208", "x": "953975"}],
  "length": "30",
  "vertex_cnt": "2"
},
{
  "vertex": [{"y": "1951208", "x": "953975"}, {"y": "1951230", "x": "954007"}],
  "length": "38",
  "vertex_cnt": "2"
},
{
  "vertex":
  [
    {"y": "1951230", "x": "954007"},
    {"y": "1951233", "x": "954015"},
    {"y": "1951239", "x": "954033"},
    {"y": "1951248", "x": "954063"}
  ],
  "length": "58",
  "vertex_cnt": "4"
},
{
  "vertex":
  [
    {"y": "1951248", "x": "954063"}, {"y": "1951252", "x": "954074"}
  ],
  "length": "11",
  "vertex_cnt": "2"
}
```

```
"vertex_cnt":2
},
{
  "vertex": [{"y": "1951252", "x": "954074"}, {"y": "1951270", "x": "954123"}],
  "length": "51",
  "vertex_cnt": "2"
},
{
  "vertex": [{"y": "1951270", "x": "954123"}, {"y": "1951278", "x": "954140"}],
  "length": "18",
  "vertex_cnt": "2"
},
{
  "vertex":
  [
    {"y": "1951278", "x": "954140"},
    {"y": "1951293", "x": "954171"},
    {"y": "1951304", "x": "954192"}
  ],
  "length": "58",
  "vertex_cnt": "3"
},
{
  "vertex": [{"y": "1951304", "x": "954192"}, {"y": "1951309", "x": "954200"}],
  "length": "9",
  "vertex_cnt": "2"
},
{
  "vertex":
  [
    {"y": "1951309", "x": "954200"},
    {"y": "1951333", "x": "954232"},
    {"y": "1951352", "x": "954258"}
  ],
  "length": "72",
  "vertex_cnt": "3"
},
{
  "vertex":
  [
    {"y": "1951352", "x": "954258"},
    {"y": "1951367", "x": "954281"},
    {"y": "1951372", "x": "954290"},
    {"y": "1951376", "x": "954304"}
  ],
  "length": "52",
  "vertex_cnt": "4"
},
{
  "vertex":
  [
    {"y": "1951376", "x": "954304"},
```

```
{"y": "1951378", "x": "954315"},  
 {"y": "1951380", "x": "954328"}  
],  
 "length": "23",  
 "vertex_cnt": "3"  
},  
{  
 "vertex":  
 [  
 {"y": "1951380", "x": "954328"},  
 {"y": "1951381", "x": "954353"},  
 {"y": "1951384", "x": "954375"}  
],  
 "length": "47",  
 "vertex_cnt": "3"  
},  
{  
 "vertex": [ {"y": "1951384", "x": "954375"}, {"y": "1951387", "x": "954418"} ],  
 "length": "42",  
 "vertex_cnt": "2"  
},  
{  
 "vertex": [ {"y": "1951387", "x": "954418"}, {"y": "1951389", "x": "954439"} ],  
 "length": "20",  
 "vertex_cnt": "2"  
},  
{  
 "vertex":  
 [  
 {"y": "1951389", "x": "954439"},  
 {"y": "1951390", "x": "954459"},  
 {"y": "1951394", "x": "954493"}  
],  
 "length": "54",  
 "vertex_cnt": "3"  
},  
{  
 "vertex": [ {"y": "1951394", "x": "954493"}, {"y": "1951397", "x": "954527"} ],  
 "length": "34",  
 "vertex_cnt": "2"  
},  
{  
 "vertex": [ {"y": "1951397", "x": "954527"}, {"y": "1951399", "x": "954543"} ],  
 "length": "16",  
 "vertex_cnt": "2"  
},  
{  
 "vertex": [ {"y": "1951399", "x": "954543"}, {"y": "1951403", "x": "954579"} ],  
 "length": "35",  
 "vertex_cnt": "2"  
},  
{
```

```
"vertex": [{"y": "1951403", "x": "954579"}, {"y": "1951407", "x": "954605"}],  
    "length": "26", "vertex_cnt": "2"  
},  
{  
    "vertex": [{"y": "1951407", "x": "954605"}, {"y": "1951410", "x": "954628"}],  
    "length": "22",  
    "vertex_cnt": "2"  
},  
{  
    "vertex": [{"y": "1951410", "x": "954628"}, {"y": "1951412", "x": "954642"}],  
    "length": "14",  
    "vertex_cnt": "2"  
}  
,  
]  
,  
"mbr_maxy": "1951412",  
"link_ver": "20110901",  
"link_cnt": "68",  
"mbr_miny": "1950110",  
"coordtype": "7",  
"mbr_minx": "952762"  
,  
"ROUTE":  
{  
    "total_time": "14.28",  
    "total_dist": "2956",  
    "rg_count": "8",  
    "rg":  
    [  
        {  
            "link_idx": "0",  
            "dir_name": "",  
            "nextdist": "0",  
            "type": "999",  
            "node_name": "",  
            "y": "1950209.4025207404",  
            "x": "952762.5743734274"  
        },  
        {  
            "link_idx": "1",  
            "dir_name": "",  
            "nextdist": "96",  
            "type": "9",  
            "node_name": "",  
            "y": "1950125.6698578596",  
            "x": "952807.0034420921"  
        },  
        {  
            "link_idx": "2",  
            "dir_name": "",  
            "nextdist": "178",  
            "type": "11",  
            "node_name": ""  
        }  
    ]  
}
```

```
        "y": "1950144.6143162705",
        "x": "952985.8365638396"
    },
    {
        "link_idx": "3",
        "dir_name": "",
        "nextdist": "42",
        "type": "4",
        "node_name": "",
        "y": "1950175.761480312",
        "x": "953015.6598307285"
    },
    {
        "link_idx": "4",
        "dir_name": "",
        "nextdist": "109",
        "type": "4",
        "node_name": "",
        "y": "1950148.3201929168",
        "x": "953118.7677459008"
    },
    {
        "link_idx": "5",
        "dir_name": "",
        "nextdist": "68",
        "type": "9",
        "node_name": "",
        "y": "1950110.6436407163",
        "x": "953176.9467153796"
    },
    {
        "link_idx": "6",
        "dir_name": "",
        "nextdist": "640",
        "type": "12",
        "node_name": "",
        "y": "1950752.0056789191",
        "x": "953101.5620589758"
    },
    {
        "link_idx": "7",
        "dir_name": "",
        "nextdist": "1823",
        "type": "1001",
        "node_name": "",
        "y": "1951412.9619372042",
        "x": "954642.4770634777"
    }
]
},
"isRoute": "true"
}
```

```
},
"ID":"602",
"ERRCD":0,
"NO":"13a99c72-44f7-3e05-8838-59e5fd5b3256",
"ERRMS":"SUCCESS"}
```

### 3. 코드 및 메시지정의

#### I. 검색엔진 API 정의 코드

##### 1) API 호출시 에러코드

| 에러코드 | 의미                              |
|------|---------------------------------|
| 0    | 성공                              |
| 2001 | HTTP헤더에 필수 변수가 없음               |
| 2002 | 주어진 signature값이 서버에서 계산된 값과 불일치 |
| 2003 | 내부로직처리 에러                       |
| 2004 | 필수 parameter가 존재하지 않음           |
| 2005 | 지원하지 않는 parameter가 존재함          |
| 2006 | 등록된 APPKEY가 존재하지 않음             |
| 2007 | 인증정보 없음                         |
| 2008 | 지원하지 않는 API                     |
| 2009 | XML 생성시 에러 발생                   |
| 2010 | 지원하지 않는 HTTP Method             |
| 2011 | 외부 시스템 연계 에러                    |

##### 2) 검색엔진용 유무선 올레맵 공통 테마코드

| 테마코드 | 종류 |
|------|----|
| 0100 | 맛집 |
| 0101 | 한식 |
| 0102 | 양식 |
| 0103 | 중식 |
| 0104 | 일식 |
| 0105 | 분식 |
| 0200 | 커피 |

|      |        |
|------|--------|
| 0500 | 은행     |
| 0600 | 병원     |
| 0700 | 약국     |
| 0900 | 올레와이파이 |
| 1100 | 주유소    |
| 1401 | 영화     |

### 3) 검색엔진용 스페셜 테마코드

| 스페셜 테마코드         | 종류        |
|------------------|-----------|
| PG11070000000002 | 캠핑장       |
| PG11070000000003 | 산/계곡      |
| PG11070000000004 | 당일여행(수도권) |
| PG11070000000005 | 펜션        |
| PG11070000000007 | 여행지       |
| PG11070000000008 | 맛집        |

### 4) 테마정보 조회용 서비스 번호

| 서비스 번호 | 설명     |
|--------|--------|
| 001    | 공통 GW  |
| 002    | 우리동네 n |

### 5) 시스템 응답 메시지

| 유형    | 내용   |
|-------|--|
| 조회 성공 | HTTP/1.1 201 Created<br>Date: Wed, 07 Sep 2011 05:26:38 GMT<br>Server: Apache/2.2.17 (Unix) mod_ssl/2.2.17 OpenSSL/0.9.8e-fips-rhel5 DAV/2<br>Content-Length: 284<br>X-Powered-By: Servlet/2.5 JSP/2.1<br>Content-Type: application/json<br><br>{"sequenceno":"9999","errordescription":null,"returncode":"1","transactionid":"431add44-4618-3908-894b-b764966e9d3b","payload":"{\"RESDATAW\":{\"COUNTW\":0},\"IDW\":\"501W\",\"ERRCDW\":0,\"NOW\":\"20110907142618W\",\"ERRMSW\":\"SUCCESSW\"}","errorcode":null,"returndescription":"SUCCESS"}<br> |
| 인증 성공 | HTTP/1.1 201 Created<br>Date: Wed, 07 Sep 2011 05:23:33 GMT<br>Server: Apache/2.2.17 (Unix) mod_ssl/2.2.17 OpenSSL/0.9.8e-fips-rhel5 DAV/2<br>Content-Length: 164<br>X-Powered-By: Servlet/2.5 JSP/2.1   |

|                      |  |
|----------------------|--|
|                      | Content-Type: application/json<br><br>{"sequenceno":"9999","errordescription":null,"returncode":"1","transactionid":"94784137-2e72-3759-816c-6aa13347cc7b","errorcode":null,"returnndescription":"SUCCESS"}  |
| 접근 권한 오류 (인증 실패)     | HTTP/1.1 401 Authorization Required<br>Date: Wed, 07 Sep 2011 05:24:17 GMT<br>Server: Apache/2.2.17 (Unix) mod_ssl/2.2.17 OpenSSL/0.9.8e-fips-rhel5 DAV/2<br>Content-Length: 1518<br>WWW-Authenticate: Basic realm="default"<br>X-Powered-By: Servlet/2.5 JSP/2.1<br>Content-Type: text/html; charset=UTF-8<br><br><!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Draft//EN"><br><HTML><br><HEAD><br><TITLE>Error 401--Unauthorized</TITLE><br><META NAME="GENERATOR" CONTENT="WebLogic Server"><br></HEAD><br><BODY bgcolor="white"><br><FONT FACE="Helvetica"><BR CLEAR=all><br><TABLE border=0 cellspacing=5><TR><TD><BR CLEAR=all><br><FONT FACE="Helvetica" COLOR="black" SIZE="3"><H2>Error 401--Unauthorized</H2><br></FONT></TD></TR><br></TABLE><br><TABLE border=0 width=100% cellpadding=10><TR><TD VALIGN=top WIDTH=100%><br>bgcolor=white><FONT FACE="Courier New"><FONT FACE="Helvetica" SIZE="3"><H3>From RFC 2068<br><i>Hypertext Transfer Protocol -- HTTP/1.1</i></H3><br></FONT><FONT FACE="Helvetica" SIZE="3"><H4>10.4.2 401 Unauthorized</H4><br></FONT><P><FONT FACE="Courier New">The request requires user authentication. The response MUST include a WWW-Authenticate header field (section 14.46) containing a challenge applicable to the requested resource. The client MAY repeat the request with a suitable Authorization header field (section 14.8). If the request already included Authorization credentials, then the 401 response indicates that authorization has been refused for those credentials. If the 401 response contains the same challenge as the prior response, and the user agent has already attempted authentication at least once, then the user SHOULD be presented the entity that was given in the response, since that entity MAY include relevant diagnostic information. HTTP access authentication is explained in section 11.</FONT></P><br></TD></TR><br></TABLE><br><br></BODY><br></HTML> |
| Request 메시지의 포맷 오류 시 | HTTP/1.1 400 Bad Request<br>Date: Mon, 22 Aug 2011 01:57:27 GMT<br>Server: Apache/2.2.17 (Unix) mod_ssl/2.2.17 OpenSSL/0.9.8e-fips-rhel5 DAV/2<br>Content-Length: 141<br>X-Powered-By: Servlet/2.5 JSP/2.1<br>Connection: close<br>Content-Type: application/json<br>{"error":{"message":"Failed to unmarshal input:Unterminated string at character 20","type":"com.bea.wlcp.wlnc.rest.bind.UnmarshalException"}}   |
| Request 파라미터가 잘못된 경우 | HTTP/1.1 201 Created<br>Date: Wed, 07 Sep 2011 06:42:44 GMT<br>Server: Apache/2.2.17 (Unix) mod_ssl/2.2.17 OpenSSL/0.9.8e-fips-rhel5 DAV/2<br>Content-Length: 192<br>X-Powered-By: Servlet/2.5 JSP/2.1<br>Content-Type: application/json<br><br>{"sequenceno":"3","errordescription":"Parameter addr","returncode":"0","transactionid":"6e551cdb-e458-3e28-b4da-2f958d23603e","payload":"","errorcode":"200002","returnndescription":""} Missing:  |

## II. 스페셜 DB API 정의코드

### 1) API 호출시 에러코드

| 에러코드 | 의미            |
|------|---------------|
| 0    | 성공            |
| 1    | 실패            |
| 2    | 필수 파라미터 없음    |
| 3    | 지원 하지 않는 포맷   |
| 4    | XML 생성에러      |
| 5    | JSON 생성에러     |
| 6    | DB 에러         |
| 7    | 소켓 에러         |
| 8    | HTTP 에러       |
| 9    | THREAD 에러     |
| 10   | FORMAT 에러     |
| 11   | 잘못된 파라미터 값 에러 |
| 12   | 로직 에러         |
| 13   | 헤더에 데이터 없음    |

### 2) 스페셜 DB 용 테마코드

| 테마코드 | 종류   |
|------|------|
| 0100 | 맛집   |
| 0101 | 한식   |
| 0102 | 양식   |
| 0103 | 중식   |
| 0104 | 일식   |
| 0200 | 커피&티 |
| 0300 | 호프&바 |
| 0500 | 은행   |
| 0600 | 병원   |
| 0700 | 약국   |
| 0800 | 편의점  |

|      |          |
|------|----------|
| 0900 | 주차장      |
| 1000 | 주유소      |
| 1100 | 부동산      |
| 1200 | PC방      |
| 1300 | 영화&공연    |
| 1301 | 영화관      |
| 1302 | 자동차 극장   |
| 1303 | 연극극장     |
| 1304 | 국립국악원    |
| 1305 | 종합공연장    |
| 1306 | 관국립중앙극장  |
| 1500 | 숙박       |
| 1700 | 미술 & 박물관 |
| 1701 | 미술관      |
| 1702 | 박물관      |
| 1703 | 과학관      |
| 1704 | 전시관      |
| 1705 | 국립중앙박물관  |
| 1706 | 국립민속박물관  |
| 1707 | 국립현대미술관  |

### 3) 좌표계 타입코드

| COORDTYPE | 설명      |
|-----------|---------|
| 0         | UTMK    |
| 1         | TM WEST |
| 2         | TM MID  |
| 3         | TM EAST |
| 4         | KATEC   |
| 5         | UTM52   |
| 6         | UTM51   |
| 7         | WGS84   |
| 8         | BESSEL  |

## 4) 길찾기 관련 코드 및 메시지

### A. 자동차 길찾기 요청시 Priority(우선순위) 정의

| 요청 타입   | 값 | 설명                       |
|---------|---|--------------------------|
| 최단거리 우선 | 0 | 도로 속도를 무시하고 가장 짧은 거리를 안내 |
| 고속도로 우선 | 1 | 고속도로 위주로 안내              |
| 무료도로 우선 | 2 | 과금이 없는 도로를 위주로 안내        |
| 최적경로    | 3 | 도로 상황, 도로 속도에 맞게 안내      |

### B. 자동차 길찾기 RG type 정의

| 코드 | 안내                |
|----|-------------------|
| 0  | 안내없음              |
| 1  | 직진                |
| 2  | 1시 방향 우회전         |
| 3  | 2시 방향 우회전         |
| 4  | 우회전               |
| 5  | 4시 방향 우회전         |
| 6  | 5시 방향 우회전         |
| 7  | 7시 방향 좌회전         |
| 8  | 8시 방향 좌회전         |
| 9  | 좌회전               |
| 10 | 10시 방향 좌회전        |
| 11 | 11시 방향 좌회전        |
| 12 | 직진 방향에 고가도로 진입    |
| 13 | 오른쪽 방향에 고가도로 진입   |
| 14 | 왼쪽 방향에 고가도로 진입    |
| 15 | 지하차도              |
| 16 | 오른쪽 방향에 고가도로 옆 도로 |
| 17 | 왼쪽 방향에 고가도로 옆 도로  |
| 18 | 오른쪽 방향에 지하차도 옆 도로 |
| 19 | 왼쪽 방향에 지하차도 옆 도로  |

|      |                   |
|------|-------------------|
| 20   | 오른쪽 도로            |
| 21   | 왼쪽 도로             |
| 22   | 직진 방향에 고속도로 진입    |
| 23   | 오른쪽 방향에 고속도로 진입   |
| 24   | 왼쪽 방향에 고속도로 진입    |
| 25   | 직진 방향에 도시고속도로 진입  |
| 26   | 오른쪽 방향에 도시고속도로 진입 |
| 27   | 왼쪽 방향에 도시고속도로 진입  |
| 28   | 오른쪽 방향에 고속도로 출구   |
| 29   | 왼쪽 방향에 고속도로 출구    |
| 30   | 오른쪽 방향에 도시고속도로 출구 |
| 31   | 왼쪽 방향에 도시고속도로 출구  |
| 32   | 분기점에서 직진          |
| 33   | 분기점에서 오른쪽         |
| 34   | 분기점에서 왼쪽          |
| 35   | U-turn            |
| 36   | 무발성 직진            |
| 37   | 터널                |
| 38   | 없음                |
| 39   | 없음                |
| 40   | 로터리에서 1시 방향       |
| 41   | 로터리에서 2시 방향       |
| 42   | 로터리에서 3시 방향       |
| 43   | 로터리에서 4시 방향       |
| 44   | 로터리에서 5시 방향       |
| 45   | 로터리에서 6시 방향       |
| 46   | 로터리에서 7시 방향       |
| 47   | 로터리에서 8시 방향       |
| 48   | 로터리에서 9시 방향       |
| 49   | 로터리에서 10시 방향      |
| 50   | 로터리에서 11시 방향      |
| 51   | 로터리에서 12시 방향      |
| 999  | 출발지               |
| 1000 | 경유지               |
| 1001 | 도착지               |

### C. 자동차 길찾기 결과 실패 메시지 (Response Node Text)

| 필드       | 값                | 설명                         |
|----------|------------------|----------------------------|
| Response | <NODETEXT>       | isRoute 가 false 면 생성되는 메시지 |
|          | ROUTE_START_FAIL | 출발지 검색 실패                  |
|          | ROUTE_DEST_FAIL  | 목적지 검색 실패                  |
|          | ROUTE_VIA1_FAIL  | 첫 번째 경유지 검색 실패             |
|          | ROUTE_VIA2_FAIL  | 두 번째 경유지 검색 실패             |
|          | ROUTE_VIA3_FAIL  | 세 번째 경유지 검색 실패             |
|          | ROUTE_FAIL       | 경로탐색 실패                    |

### 5) 주소 코드 유형

| ADDRCDTYPE | 설명  |
|------------|-----|
| 0          | 법정동 |
| 1          | 행정동 |

## III. 샘플 소스

### A. Java Request

```

import java.io.BufferedReader;
import java.io.InputStream;
import java.io.InputStreamReader;
import java.io.UnsupportedEncodingException;
import java.net.URL;
import java.net.URLConnection;
import org.json.simple.JSONObject;
import com.sun.org.apache.xerces.internal.impl.dv.util.Base64;

public class GeocodeTest {

```

```
protected void execute() {
    try {

        //AppID:Key 로 구성한 값을 Base64 Encoding 한다.
        String appid="81*****:T77*****";
        //마지막에 공백이 들어 문제가 발생 할 수 있어 trim() 처리 한다.
        String base64EncodingAppID = Base64.encode(appid.getBytes()).trim();

        //인증 value는 "Basic ODE*****" 로 입력 한다.
        //ODE*****는 AppID:Key를 Base64 인코딩 된 값이다.
        String authValue = "Basic "+base64EncodingAppID;

        URL url = new
URL( "http://openapi.kt.com/maps/geocode/GetGeocodeByAddr?params="+getParams());
        //URL 연결
        URLConnection conn = url.openConnection();
        conn.setDoOutput(true);

        //헤더에 인증 값 셋팅
        conn.addRequestProperty("authorization",authValue);
        InputStream is;
        BufferedReader br;
        String data = null;

        //요청 결과값 받기 위한 인풋 스트림 얻기
        is = conn.getInputStream();
        br = new BufferedReader(new InputStreamReader(is));
        int i = 0;

        //데이터 가져오기.
        while ((data = br.readLine()) != null) {
            //data는 Result 데이터 이다.

            String[] datas = data.split(",");
            String[] datas2 = datas[4].split(":");
        }
    }
}
```

```
//payload는 검색 결과 데이터이고  
//UTF-8 Encoding 되어있어 decode해준다.  
String payload = java.net.URLDecoder.decode(datas2[1], "utf-8");  
  
System.out.println("Result Data=" + payload);  
}  
} catch (Exception e) {  
    e.printStackTrace();  
}  
  
}  
  
public String getParams() throws UnsupportedEncodingException{  
  
    //주소 파라미터  
    String addr = "서울특별시 강남구 삼성동 168-1";  
  
    //주소를 UTF-8로 URLEncoding 해 준다.  
    String utf8Addr = java.net.URLEncoder.encode(addr, "utf-8");  
    String timestamp = "20120413092033765";  
    String addrcdtype = "0";  
  
    //입력 파라미터들을 Json 형태로 만들어 준다.  
    //JSON 라이브러리는 인터넷에서 구할 수 있다.  
    JSONObject jsonObj = new JSONObject();  
    jsonObj.put("timestamp", timestamp);  
    jsonObj.put("addrcdtype", addrcdtype);  
    jsonObj.put("addr", utf8Addr);  
  
    String params = jsonObj.toJSONString();  
    System.out.println(params);  
  
    //입력 파라미터가 모두 들어간 파라미터를 UTF-8 URLEncoding 을 해준다.  
    String paramsURLEncoding = java.net.URLEncoder.encode(jsonObj.toString(),  
    "utf-8");
```

```
    return paramsURLEncoding;
}

public static void main(String[] args) {

    GeocodeTest test = new GeocodeTest();
    test.execute();
}

}
```