공공데이터 개방•공유•활용 체계 개발



Open API 활용가이드

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# 1. API 서비스 명세

## 1.1 대중교통환승경로 조회 서비스

### API 서비스 개요

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| API 서비스 정보 | API명(국문) | 대중교통환승경로 조회 서비스 | | |
| API 설명 | 목적지로의 이동 경로에 대한 정보 제공 (<http://api.bus.go.kr/> 참고)  <기본흐름>  1. 사용자는 오퍼레이션\_ getLocationInfo 를 호출한다.  2. 사용자는 오퍼레이션\_ getPathInfoByBus 를 호출한다.  3. 사용자는 오퍼레이션\_ getPathInfoBySubway 를 호출한다.  4. 사용자는 오퍼레이션\_ getPathInfoByBusNSub 를 호출한다. | | |
| API 서비스 보안  적용 기술 수준 | 서비스 인증/권한 | [O] 서비스 Key [ ] 인증서 (GPKI)  [] Basic (ID/PW) [ ] 없음 | | |
| 메시지 레벨  암호화 | [ ] 전자서명 [ ] 암호화 [O] 없음 | | |
| 전송 레벨 암호화 | [ ] SSL [ O] 없음 | | |
| 인터페이스 표준 | [ ] SOAP 1.2  (RPC-Encoded, Document Literal, Document Literal Wrapped)  [ O ] REST (GET)  [ ] RSS 1.0 [ ] RSS 2.0 [ ] Atom 1.0 [ ] 기타 | | |
| 교환 데이터 표준 | [ O ] XML [ ] JSON [ ] MIME [ ] MTOM | | |
| API 서비스  배포정보 | 서비스 URL | http://ws.bus.go.kr/api/rest/pathinfo | | |
| 서비스 WADL |  | | |
| 서비스 버전 | 1.0 | | |
| 서비스 시작일 |  | 서비스 배포일 |  |
| 서비스 이력 |  | | |
| 메시지교환유형 | [O] Request-Response [ ] Publish-Subscribe  [ ] Fire-and-Forgot [ ] Notification | | |
| 서비스 제공자 |  | | |
| 데이터 갱신주기 |  | | |

### 상세기능 목록

|  |  |  |  |
| --- | --- | --- | --- |
| 일련번호 | API명(국문) | 상세기능명(영문) | 상세기능명(국문) |
| 1 | 대중교통환승경로 조회 서비스 | getLocationInfoList | 출발지/목적지목록검색 |
| 2 | 대중교통환승경로 조회 서비스 | getPathInfoBySubwayList | 지하철이용경로목록조회 |
| 3 | 대중교통환승경로 조회 서비스 | getPathInfoByBusList | 버스이용경로목록조회 |
| 4 | 대중교통환승경로 조회 서비스 | getPathInfoByBusNSubList | 버스지하철환승경로목록조회 |

#### getLocationInfoList 상세기능 명세

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 상세기능 정보 | 상세기능 번호 | 1 | 상세기능 유형 | 조회 | |
| 상세기능명 | getLocationInfoList | | | |
| 상세기능 설명 | 출발지/목적지 명칭으로 검색 검색어가 포함된 POI 정보를 요청한다. | | | |
| Call Back URL | http://ws.bus.go.kr/api/rest/pathinfo/getLocationInfo | | | |
| 최대 메시지 사이즈 |  | | | |
| 평균 응답 시간 |  | 초당 최대 트랜잭션 | |  |

##### 요청 메시지 명세

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 항목명(영문) | 항목명(국문) | 항목크기 | 항목구분 | 샘플데이터 | 항목설명 |
| serviceKey | 인증키 |  | 1 |  | 인증키 |
| stSrch | 검색어 |  | 0 | 강남역 | 검색어 |

※ 항목구분 : 필수(1), 옵션(0), 1건 이상 복수건(1..n), 0건 또는 복수건(0..n)

##### 응답 메시지 명세

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 항목명(영문) | 항목명(국문) | 항목크기 | 항목구분 | 샘플데이터 | 항목설명 |
| poiId | POI ID | string |  | 122000614 | POI ID |
| poiNm | POI 이름 | string |  | 강남역 | POI 이름 |
| gpsX | X좌표 (WGS84) | string |  | 127.0296699045 | X좌표 (WGS84) |
| gpsY | Y좌표 (WGS84) | string |  | 37.4942635569 | Y좌표 (WGS84) |
| posX | X좌표 (GRS80) | string |  | 202623.43836964443 | X좌표 (GRS80) |
| posY | Y좌표 (GRS80) | string |  | 443873.8799684746 | Y좌표 (GRS80) |
| addr | 주소 (옵션) | string |  | 공백 | 주소 (옵션) |

※ 항목구분 : 필수(1), 옵션(0), 1건 이상 복수건(1..n), 0건 또는 복수건(0..n)

##### 요청 / 응답 메시지 예제

|  |
| --- |
| REST(URI) |
| http://ws.bus.go.kr/api/rest/pathinfo/getLocationInfo?ServiceKey=인증키&stSrch=%EA%B4%91%ED%99%94%EB%AC%B8 |
| 응답 메시지 |
| <ServiceResult>  <comMsgHeader/>  <msgHeader>  <headerCd>0</headerCd>  <headerMsg>정상적으로 처리되었습니다.</headerMsg>  <itemCount>0</itemCount>  </msgHeader>  <msgBody>  <itemList>  <gpsX>127.0296699045</gpsX>  <gpsY>37.4942635569</gpsY>  <poiId>122000614</poiId>  <poiNm>강남역</poiNm>  <posX>202623.43836964443</posX>  <posY>443873.8799684746</posY>  </itemList>  <itemList>  <gpsX>127.0262565328</gpsX>  <gpsY>37.5000665676</gpsY>  <poiId>121000097</poiId>  <poiNm>강남역</poiNm>  <posX>202321.44546649436</posX>  <posY>444517.7800624799</posY>  </itemList>  <itemList>  <gpsX>127.0272571889</gpsX>  <gpsY>37.4992607551</gpsY>  <poiId>122900009</poiId>  <poiNm>강남역</poiNm>  <posX>202409.94338923675</posX>  <posY>444428.3800450051</posY>  </itemList>  <itemList>  <gpsX>127.0268505284</gpsX>  <gpsY>37.4975009943</gpsY>  <poiId>121000262</poiId>  <poiNm>강남역</poiNm>  <posX>202374.04422700306</posX>  <posY>444233.0800207369</posY>  </itemList>  <itemList>  <gpsX>127.0301126142</gpsX>  <gpsY>37.4983670689</gpsY>  <poiId>122000606</poiId>  <poiNm>강남역</poiNm>  <posX>202662.43745239812</posX>  <posY>444329.2800344578</posY>  </itemList>  <itemList>  <gpsX>127.0269678944</gpsX>  <gpsY>37.4999348463</gpsY>  <poiId>122000182</poiId>  <poiNm>강남역</poiNm>  <posX>202384.34399090658</posX>  <posY>444503.1800531605</posY>  </itemList>  <itemList>  <gpsX>127.028986028</gpsX>  <gpsY>37.4945004827</gpsY>  <poiId>277101696</poiId>  <poiNm>강남역(경유)</poiNm>  <posX>202562.9613257403</posX>  <posY>443900.15398299694</posY>  </itemList>  <itemList>  <gpsX>127.0264405862</gpsX>  <gpsY>37.4992095778</gpsY>  <poiId>121900129</poiId>  <poiNm>강남역.10번출구</poiNm>  <posX>202337.74508465012</posX>  <posY>444422.6800406277</posY>  </itemList>  <itemList>  <gpsX>127.0265475067</gpsX>  <gpsY>37.4977272396</gpsY>  <poiId>121900088</poiId>  <poiNm>강남역.9번출구</poiNm>  <posX>202347.2448631911</posX>  <posY>444258.1800199514</posY>  </itemList>  <itemList>  <gpsX>127.0266040758</gpsX>  <gpsY>37.4977839964</gpsY>  <poiId>121000091</poiId>  <poiNm>강남역.강남역사거리</poiNm>  <posX>202352.2447401954</posX>  <posY>444264.48002494825</posY>  </itemList>  <itemList>  <gpsX>127.0277539843</gpsX>  <gpsY>37.4969745413</gpsY>  <poiId>121900198</poiId>  <poiNm>강남역.삼성전자</poiNm>  <posX>202453.94235178892</posX>  <posY>444174.68001086777</posY>  </itemList>  <itemList>  <gpsX>127.0264125041</gpsX>  <gpsY>37.4997574546</gpsY>  <poiId>121900203</poiId>  <poiNm>강남역.서초초교앞</poiNm>  <posX>202335.2451423747</posX>  <posY>444483.4800557154</posY>  </itemList>  <itemList>  <gpsX>127.0263349975</gpsX>  <gpsY>37.4998801359</gpsY>  <poiId>274103249</poiId>  <poiNm>강남역.서초초교앞(경유)</poiNm>  <posX>202328.388634846</posX>  <posY>444497.0927123986</posY>  </itemList>  <itemList>  <gpsX>127.0291477897</gpsX>  <gpsY>37.4981357274</gpsY>  <poiId>122000184</poiId>  <poiNm>강남역.역삼세무서</poiNm>  <posX>202577.1394602827</posX>  <posY>444303.58002625545</posY>  </itemList>  <itemList>  <gpsX>127.0261686117</gpsX>  <gpsY>37.5003928805</gpsY>  <poiId>277103680</poiId>  <poiNm>강남역.지오다노(경유)</poiNm>  <posX>202313.66194018515</posX>  <posY>444553.9905263861</posY>  </itemList>  <itemList>  <gpsX>127.0268968912</gpsX>  <gpsY>37.4987279</gpsY>  <poiId>274103255</poiId>  <poiNm>강남역10번출구(경유)</poiNm>  <posX>202378.10457924855</posX>  <posY>444369.23720865557</posY>  </itemList>  <itemList>  <gpsX>127.0298390986</gpsX>  <gpsY>37.4988294041</gpsY>  <poiId>122000181</poiId>  <poiNm>강남역12번출구</poiNm>  <posX>202638.238025213</posX>  <posY>444380.58004534105</posY>  </itemList>  <itemList>  <gpsX>127.0293968328</gpsX>  <gpsY>37.4987123716</gpsY>  <poiId>122000607</poiId>  <poiNm>강남역12번출구</poiNm>  <posX>202599.13894080953</posX>  <posY>444367.58004216896</posY>  </itemList>  <itemList>  <gpsX>127.0282941558</gpsX>  <gpsY>37.4958300121</gpsY>  <poiId>121000921</poiId>  <poiNm>강남역나라빌딩앞</poiNm>  <posX>202501.74123390362</posX>  <posY>444047.6799923098</posY>  </itemList>  <itemList>  <gpsX>127.0288467746</gpsX>  <gpsY>37.4947467523</gpsY>  <poiId>121000937</poiId>  <poiNm>강남역도시에빛</poiNm>  <posX>202550.64008390126</posX>  <posY>443927.4799849894</posY>  </itemList>  <itemList>  <gpsX>127.0279630355</gpsX>  <gpsY>37.4964969073</gpsY>  <poiId>121000541</poiId>  <poiNm>강남역서초현대타워앞</poiNm>  <posX>202472.44191744196</posX>  <posY>444121.6799993748</posY>  </itemList>  <itemList>  <gpsX>127.0283766361</gpsX>  <gpsY>37.4956209364</gpsY>  <poiId>121000974</poiId>  <poiNm>강남역우리은행</poiNm>  <posX>202509.0410553971</posX>  <posY>444024.4799943464</posY>  </itemList>  <itemList>  <gpsX>127.0288750119</gpsX>  <gpsY>37.4946530306</gpsY>  <poiId>121000973</poiId>  <poiNm>강남역티월드</poiNm>  <posX>202553.14002469674</posX>  <posY>443917.0799787878</posY>  </itemList>  <itemList>  <gpsX>127.0277969551</gpsX>  <gpsY>37.4969583114</gpsY>  <poiId>121000271</poiId>  <poiNm>강남역하나은행</poiNm>  <posX>202457.74226137347</posX>  <posY>444172.8800171418</posY>  </itemList>  <itemList>  <gpsX>127.029112</gpsX>  <gpsY>37.494993</gpsY>  <poiId>121000010</poiId>  <poiNm>신분당선강남역</poiNm>  <posX>202574.0829385011</posX>  <posY>443954.8145600953</posY>  </itemList>  <itemList>  <gpsX>127.0284005454</gpsX>  <gpsY>37.4960417459</gpsY>  <poiId>121000009</poiId>  <poiNm>신분당선강남역</poiNm>  <posX>202511.14100733981</posX>  <posY>444071.18000231823</posY>  </itemList>  <itemList>  <gpsX>127.02637</gpsX>  <gpsY>37.500785</gpsY>  <poiId>121000012</poiId>  <poiNm>지하철2호선강남역</poiNm>  <posX>202331.4552185306</posX>  <posY>444597.51102609886</posY>  </itemList>  <itemList>  <gpsX>127.025438</gpsX>  <gpsY>37.501817</gpsY>  <poiId>121000011</poiId>  <poiNm>지하철2호선강남역</poiNm>  <posX>202249.02318997498</posX>  <posY>444712.0147405234</posY>  </itemList>  </msgBody>  </ServiceResult>  ……………………. |

#### getPathInfoBySubwayList 상세기능 명세

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 상세기능 정보 | 상세기능 번호 | 2 | 상세기능 유형 | 조회 | |
| 상세기능명 | getPathInfoBySubwayList | | | |
| 상세기능 설명 | 목적지와 출발지의 지하철이용 최단거리경로를 조회한다. | | | |
| Call Back URL | http://ws.bus.go.kr/api/rest/pathinfo/getPathInfoBySubway | | | |
| 최대 메시지 사이즈 |  | | | |
| 평균 응답 시간 |  | 초당 최대 트랜잭션 | |  |

##### 요청 메시지 명세

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 항목명(영문) | 항목명(국문) | 항목크기 | 항목구분 | 샘플데이터 | 항목설명 |
| serviceKey | 인증키 |  | 1 | 인증키 (URL-Encode) | 공공데이터포털에서 발급받은 인증키 |
| startX | 시작점 X 좌표 (WGS84) |  | 1 | 127. 83948388112836 | 시작점 X 좌표 (WGS84) |
| startY | 시작점 Y 좌표 (WGS84) |  | 1 | 37. 558210971753226 | 시작점 Y 좌표 (WGS84) |
| endX | 도착점 X 좌표 (WGS84) |  | 1 | 127. 01460762172958 | 도착점 X 좌표 (WGS84) |
| endY | 도착점 Y 좌표 (WGS84) |  | 1 | 37. 57250 | 도착점 Y 좌표 (WGS84) |

※ 항목구분 : 필수(1), 옵션(0), 1건 이상 복수건(1..n), 0건 또는 복수건(0..n)

##### 응답 메시지 명세

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 항목명(영문) | 항목명(국문) | 항목크기 | 항목구분 | 샘플데이터 | 항목설명 |
| distance | 거리 | string |  | 29313 | 거리 |
| time | 소요시간 | string |  | 62 | 소요시간 |
| pathList | 경로목록 | string |  |  | 경로목록 |
| routeNm | 호선명 | string |  | 6호선 | 호선명 |
| fid | 탑승지ID | string |  | 26350 | 탑승지ID |
| fname | 탑승지명 | string |  | 청구역 | 탑승지명 |
| fx | 탑승지 X좌표 (WGS84) | string |  | 127.01384346091564 | 탑승지 X좌표 (WGS84) |
| fy | 탑승지 Y좌표 (WGS84) | string |  | 37.560348529852384 | 탑승지 Y좌표 (WGS84) |
| tid | 하차지ID | string |  | 26370 | 하차지ID |
| tname | 하차지명 | string |  | 동묘앞역 | 하차지명 |
| tx | 하차지 X좌표 (WGS84) | string |  | 127.01570229989197 | 하차지 X좌표 (WGS84) |
| ty | 하차지 Y좌표 (WGS84) | string |  | 37.57216162069108 | 하차지 Y좌표 (WGS84) |
| railLinkList | 경유지하철역ID목록 | string |  |  | 경유지하철역ID목록 |
| railLinkId | 경유지하철역ID | string |  | 1 | 경유지하철역ID |

※ 항목구분 : 필수(1), 옵션(0), 1건 이상 복수건(1..n), 0건 또는 복수건(0..n)

##### 요청 / 응답 메시지 예제

|  |
| --- |
| REST(URI) |
| http://ws.bus.go.kr/api/rest/pathinfo/getPathInfoBySubway?ServiceKey=인증키&startX=126.83948388112836&startY=37.558210971753226&endX=127.01460762172958&endY=37.57250 |
| 응답 메시지 |
| <ServiceResult>  <comMsgHeader/>  <msgHeader>  <headerCd>0</headerCd>  <headerMsg/>  <itemCount>0</itemCount>  </msgHeader>  <msgBody>  <itemList>  <distance>29313</distance>  <pathList>  <fid>25160</fid>  <fname>발산역</fname>  <fx>126.83742488801605</fx>  <fy>37.55876863442734</fy>  <railLinkList>  <railLinkId>1</railLinkId>  </railLinkList>  <railLinkList>  <railLinkId>2</railLinkId>  </railLinkList>  <railLinkList>  <railLinkId>3</railLinkId>  </railLinkList>  <railLinkList>  <railLinkId>4</railLinkId>  </railLinkList>  <railLinkList>  <railLinkId>5</railLinkId>  </railLinkList>  <railLinkList>  <railLinkId>6</railLinkId>  </railLinkList>  <railLinkList>  <railLinkId>7</railLinkId>  </railLinkList>  <railLinkList>  <railLinkId>8</railLinkId>  </railLinkList>  <railLinkList>  <railLinkId>9</railLinkId>  </railLinkList>  <railLinkList>  <railLinkId>10</railLinkId>  </railLinkList>  <railLinkList>  <railLinkId>11</railLinkId>  </railLinkList>  <railLinkList>  <railLinkId>12</railLinkId>  </railLinkList>  <railLinkList>  <railLinkId>13</railLinkId>  </railLinkList>  <railLinkList>  <railLinkId>14</railLinkId>  </railLinkList>  <railLinkList>  <railLinkId>15</railLinkId>  </railLinkList>  <railLinkList>  <railLinkId>16</railLinkId>  </railLinkList>  <railLinkList>  <railLinkId>17</railLinkId>  </railLinkList>  <railLinkList>  <railLinkId>18</railLinkId>  </railLinkList>  <railLinkList>  <railLinkId>19</railLinkId>  </railLinkList>  <railLinkList>  <railLinkId>20</railLinkId>  </railLinkList>  <railLinkList>  <railLinkId>21</railLinkId>  </railLinkList>  <railLinkList>  <railLinkId>22</railLinkId>  </railLinkList>  <routeNm>5호선</routeNm>  <tid>25380</tid>  <tname>청구역</tname>  <tx>127.01390002543114</tx>  <ty>37.560177315447156</ty>  </pathList>  <pathList>  <fid>26350</fid>  <fname>청구역</fname>  <fx>127.01384346091564</fx>  <fy>37.560348529852384</fy>  <railLinkList>  <railLinkId>1</railLinkId>  </railLinkList>  <railLinkList>  <railLinkId>2</railLinkId>  </railLinkList>  <routeNm>6호선</routeNm>  <tid>26370</tid>  <tname>동묘앞역</tname>  <tx>127.01570229989197</tx>  <ty>37.57216162069108</ty>  </pathList>  <time>62</time>  </itemList>  </msgBody>  </ServiceResult> |

#### getPathInfoByBusList 상세기능 명세

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 상세기능 정보 | 상세기능 번호 | 2 | 상세기능 유형 | 조회 | |
| 상세기능명 | getPathInfoByBusList | | | |
| 상세기능 설명 | 버스이용 경로 조회 목적지와 출발지의 버스이용 최단거리경로를 조회한다. | | | |
| Call Back URL | http://ws.bus.go.kr/api/rest/pathinfo/getPathInfoByBus | | | |
| 최대 메시지 사이즈 |  | | | |
| 평균 응답 시간 |  | 초당 최대 트랜잭션 | |  |

##### 요청 메시지 명세

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 항목명(영문) | 항목명(국문) | 항목크기 | 항목구분 | 샘플데이터 | 항목설명 |
| serviceKey | 인증키 |  | 1 | 인증키 (URL-Encode) | 공공데이터포털에서 발급받은 인증키 |
| startX | 시작점 X 좌표 (WGS84) |  | 1 | 126.972999 | 시작점 X 좌표 (WGS84) |
| startY | 시작점 Y 좌표 (WGS84) |  | 1 | 37.557764 | 시작점 Y 좌표 (WGS84) |
| endX | 도착점 X 좌표 (WGS84) |  | 1 | 127.027257 | 도착점 X 좌표 (WGS84) |
| endY | 도착점 Y 좌표 (WGS84) |  | 1 | 37.499261 | 도착점 Y 좌표 (WGS84) |

※ 항목구분 : 필수(1), 옵션(0), 1건 이상 복수건(1..n), 0건 또는 복수건(0..n)

##### 응답 메시지 명세

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 항목명(영문) | 항목명(국문) | 항목크기 | 항목구분 | 샘플데이터 | 항목설명 |
| distance | 거리 | string |  | 10344 | 거리 |
| time | 소요시간 | string |  | 42 | 소요시간 |
| pathList | 경로목록 | string |  |  | 경로목록 |
| routeId | 노선ID | string |  | 234000074 | 노선ID |
| routeNm | 노선명 | string |  | 1005-1광주 | 노선명 |
| fid | 탑승지ID | string |  | 101000026 | 탑승지ID |
| fname | 탑승지명 | string |  | 숭례문 | 탑승지명 |
| fx | 탑승지 X좌표 (WGS84) | string |  | 126.9743963941865 | 탑승지 X좌표 (WGS84) |
| fy | 탑승지 Y좌표 (WGS84) | string |  | 37.55867954225823 | 탑승지 Y좌표 (WGS84) |
| tid | 하차지ID | string |  | 121000011 | 하차지ID |
| tname | 하차지명 | string |  | 지하철2호선강남역 | 하차지명 |
| tx | 하차지 X좌표 (WGS84) | string |  | 127.02571981217487 | 하차지 X좌표 (WGS84) |
| ty | 하차지 Y좌표 (WGS84) | string |  | 37.50155891140608 | 하차지 Y좌표 (WGS84) |

※ 항목구분 : 필수(1), 옵션(0), 1건 이상 복수건(1..n), 0건 또는 복수건(0..n)

##### 요청 / 응답 메시지 예제

|  |
| --- |
| REST(URI) |
| http://ws.bus.go.kr/api/rest/pathinfo/getPathInfoByBus?ServiceKey=인증키 &startX=127.02044434&startY=37.57699652&endX=126.96925493&endY=37.56594610 |
| 응답 메시지 |
| <ServiceResult>  <comMsgHeader/>  <msgHeader>  <headerCd>0</headerCd>  <headerMsg/>  <itemCount>0</itemCount>  </msgHeader>  <msgBody>  <itemList>  <distance>5313</distance>  <ServiceResult>  <comMsgHeader/>  <msgHeader>  <headerCd>0</headerCd>  <headerMsg/>  <itemCount>0</itemCount>  </msgHeader>  <msgBody>  <itemList>  <distance>10344</distance>  <pathList>  <fid>101000026</fid>  <fname>숭례문</fname>  <fx>126.9743963941865</fx>  <fy>37.55867954225823</fy>  <routeId>234000074</routeId>  <routeNm>1005-1광주</routeNm>  <tid>121000011</tid>  <tname>지하철2호선강남역</tname>  <tx>127.02571981217487</tx>  <ty>37.50155891140608</ty>  </pathList>  <time>42</time>  </itemList>  <itemList>  <distance>11506</distance>  <pathList>  <fid>101000008</fid>  <fname>숭례문</fname>  <fx>126.9737738801531</fx>  <fy>37.55858929625867</fy>  <routeId>100100409</routeId>  <routeNm>421</routeNm>  <tid>121000097</tid>  <tname>강남역</tname>  <tx>127.02626217082913</tx>  <ty>37.500017906764384</ty>  </pathList>  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#### getPathInfoByBusNSubList 상세기능 명세

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 상세기능 정보 | 상세기능 번호 | 2 | 상세기능 유형 | 조회 | |
| 상세기능명 | getPathInfoByBusNSubList | | | |
| 상세기능 설명 | 버스 지하철 환승 경로 조회 목적지와 출발지의 버스와 지하철을 이용한 최단거리경로를 조회한다 | | | |
| Call Back URL | http://ws.bus.go.kr/api/rest/busRouteInfo/getBusRouteList | | | |
| 최대 메시지 사이즈 |  | | | |
| 평균 응답 시간 |  | 초당 최대 트랜잭션 | |  |

##### 요청 메시지 명세

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 항목명(영문) | 항목명(국문) | 항목크기 | 항목구분 | 샘플데이터 | 항목설명 |
| serviceKey | 인증키 |  | 1 | 인증키 (URL-Encode) | 공공데이터포털에서 발급받은 인증키 |
| startX | 시작점 X 좌표 (WGS84) |  | 1 | 126. 8635171475655 | 시작점 X 좌표 (WGS84) |
| startY | 시작점 Y 좌표 (WGS84) |  | 1 | 37. 539091135787544 | 시작점 Y 좌표 (WGS84) |
| endX | 도착점 X 좌표 (WGS84) |  | 1 | 37. 0284005454263 | 도착점 X 좌표 (WGS84) |
| endY | 도착점 Y 좌표 (WGS84) |  | 1 | 37. 496041 | 도착점 Y 좌표 (WGS84) |

※ 항목구분 : 필수(1), 옵션(0), 1건 이상 복수건(1..n), 0건 또는 복수건(0..n)

##### 응답 메시지 명세

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 항목명(영문) | 항목명(국문) | 항목크기 | 항목구분 | 샘플데이터 | 항목설명 |
| distance | 거리 | string |  |  | 거리 |
| Time | 소요시간 | string |  |  | 소요시간 |
| pathList | 경로목록 | string |  |  | 경로목록 |
| routeId | 노선ID | string |  |  | 노선ID |
| routeNm | 노선명 | string |  |  | 노선명 |
| Fid | 탑승지ID | string |  |  | 탑승지ID |
| Fname | 탑승지명 | string |  |  | 탑승지명 |
| Fx | 탑승지 X좌표 (WGS84) | string |  |  | 탑승지 X좌표 (WGS84) |
| Fy | 탑승지 Y좌표 (WGS84) | string |  |  | 탑승지 Y좌표 (WGS84) |
| Tid | 하차지ID | string |  |  | 하차지ID |
| Tname | 하차지명 | string |  |  | 하차지명 |
| Tx | 하차지 X좌표 (WGS84) | string |  |  | 하차지 X좌표 (WGS84) |
| Ty | 하차지 Y좌표 (WGS84) | string |  |  | 하차지 Y좌표 (WGS84) |
| Raillinkid | 지하철 경로 ID | String |  |  | 지하철 경로 ID |
| Isfullflag | 만차여부 | String |  |  | 만차여부 |
| Congetion | 차량내부 혼잡도 | String |  |  | 챠랑내부 혼잡도 |
| stid | 정류장 ID | String |  |  | 정류장 ID |

※ 항목구분 : 필수(1), 옵션(0), 1건 이상 복수건(1..n), 0건 또는 복수건(0..n)

##### 요청 / 응답 메시지 예제

|  |
| --- |
| REST(URI) |
| http://ws.bus.go.kr/api/rest/pathinfo/getPathInfoByBusNSub?ServiceKey=인증키&startX=126.8635171475655&startY=37.539091135787544&endX=127.0284005454263&endY=37.496041 |
| 응답 메시지 |
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### 오류코드 안내

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| 오류코드 | 오류 |
| 0 | 정상적으로 처리되었습니다 |
| 1 | 시스템 오류가 발생하였습니다 |
| 2 | 잘못된 쿼리 요청입니다. 쿼리 변수가 정확한지 확인하세요. |
| 3 | 정류소를 찾을 수 없습니다 |
| 4 | 노선을 찾을 수 없습니다. |
| 5 | 잘못된 위치로 요청을 하였습니다. 위/경도 좌표가 정확한지 확인하세요 |
| 6 | 실시간 정보를 읽을 수 없습니다. 잠시 후 다시 시도하세요 |
| 7 | 경로 검색 결과가 존재하지 않습니다. |
| 8 | 운행 종료되었습니다. |