공공데이터 오픈 API 확대 및 포털 고도화



Open API 활용가이드



**개정 이력**

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| --- | --- | --- | --- | --- | --- |
| **버전** | **변경일** | **변경 사유** | **변경 내용** | **작성자** | **승인** |
| 1.0 | 2020-06-24 | 최초작성 | 최초작성 | 김해우 |  |
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**1. 서비스 명세**

**1.1 경상남도 주택현황 및 보급률**

가. API 서비스 개요

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **API 서비스 정보** | **API명(영문)** | gyeongnamhousesupplyrate | | |
| **API명(국문)** | 경상남도 주택현황 및 보급률 | | |
| **API 설명** | 경상남도의 시군, 연도별 가구수, 주택수, 보급률 정보를 조회하는 경상남도 주택현황 및 보급률 조회 서비스 | | |
| **API 서비스**  **보안적용**  **기술 수준** | **서비스 인증/권한** | [O] ServiceKey [ ] 인증서 (GPKI/NPKI)  [ ] 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**  **(중복선택가능)** | [O] XML [O] JSON [ ] MIME [ ] MTOM | | |
| **API 서비스**  **배포정보** | **서비스 URL** | http://apis.data.go.kr/6480000/gyeongnamhousesupplyrate | | |
| **서비스 명세 URL**  **(WSDL 또는 WADL)** | http://apis.data.go.kr/6480000/gyeongnamhousesupplyrate?\_wadl&type=xml | | |
| **서비스 버전** | 1.0 | | |
| **서비스 시작일** | 2020-06-24 | **서비스 배포일** | 2020-06-24 |
| **서비스 이력** | 2020-06-24: 서비스 시작 | | |
| **메시지 교환유형** | [O] Request-Response [ ] Publish-Subscribe  [ ] Fire-and-Forgot [ ] Notification | | |
| **서비스 제공자** | 이교환 / 정보빅데이터담당관 / 055-211-2655 / aplus1@korea.kr | | |
| **데이터 갱신주기** | 년 1회 | | |

나. 상세기능 목록

|  |  |  |  |
| --- | --- | --- | --- |
| **번호** | **API명(국문)** | **상세기능명(영문)** | **상세기능명(국문)** |
| 1 | 경상남도 주택현황 및 보급률 | gyeongnamhousesupplyratelist | 경상남도 주택현황 및 보급률 정보 |

다. 상세기능내역

1) [경상남도 주택현황 및 보급률 정보] 상세기능명세

a) 상세기능정보

|  |  |  |  |
| --- | --- | --- | --- |
| **상세기능 번호** | 1 | **상세기능 유형** | 조회 |
| **상세기능명(국문)** | 경상남도 주택현황 및 보급률 정보 | | |
| **상세기능 설명** | 경상남도의 시군, 연도별 가구수, 주택수, 보급률 정보를 조회하는 경상남도 주택현황 및 보급률 조회 | | |
| **Call Back URL** | http://apis.data.go.kr/6480000/gyeongnamhousesupplyrate/gyeongnamhousesupplyratelist | | |
| **최대 메시지 사이즈** | [4000] byte | | |
| **평균 응답 시간** | [500] ms | **초당 최대 트랙잭션** | [30] tps |

b) 요청 메시지 명세

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **항목명(영문)** | **항목명(국문)** | **항목크기** | **항목구분** | **샘플데이터** | **항목설명** |
| serviceKey | 인증키 | 100 | 1 | 인증키  (URL Encode) | 공공데이터포털에서 발급받은 인증키 |
| numOfRows | 한 페이지 결과 수 | 4 | 1 | 10 | 한 페이지 결과 수 |
| pageNo | 페이지 번호 | 4 | 1 | 1 | 페이지 번호 |
| resultType | JSON방식 호출 | 4 | 0 | json | JSON방식으로 호출 시 파라미터 resultType=json 입력 |

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

c) 응답 메시지 명세

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| --- | --- | --- | --- | --- | --- |
| **항목명(영문)** | **항목명(국문)** | **항목크기** | **항목구분** | **샘플데이터** | **항목설명** |
| numOfRows | 한 페이지 결과 수 | 4 | 1 | 10 | 한 페이지당 표출 데이터 수 |
| resultCode | 결과코드 | 2 | 1 | 00 | 결과코드 |
| resultMsg | 결과메시지 | 50 | 1 | OK | 결과메시지 |
| pageNo | 페이지 수 | 4 | 1 | 1 | 페이지 수 |
| totalCount | 데이터 총 개수 | 4 | 1 | 18 | 데이터 총 개수 |
| signguNm | 행정구역(시군)별(1) | 50 | 0 | 창원시 | 행정구역(시군)별(1) |
| family2010Cnt | 2010일반가구수 (가구) | 30 | 0 | 372108 | 2010일반가구수 (가구) |
| house2010Cnt | 2010주택수 (호) | 30 | 0 | 375731 | 2010주택수 (호) |
| per2010Rate | 2010보급률 (%) | 30 | 0 | 101 | 2010보급률 (%) |
| family2011Cnt | 2011일반가구수 (가구) | 30 | 0 | 375913 | 2011일반가구수 (가구) |
| house2011Cnt | 2011주택수 (호) | 30 | 0 | 385519 | 2011주택수 (호) |
| per2011Rate | 2011보급률 (%) | 30 | 0 | 102.6 | 2011보급률 (%) |
| family2012Cnt | 2012일반가구수 (가구) | 30 | 0 | 379274 | 2012일반가구수 (가구) |
| house2012Cnt | 2012주택수 (호) | 30 | 0 | 389264 | 2012주택수 (호) |
| per2012Rate | 2012보급률 (%) | 30 | 0 | 102.6 | 2012보급률 (%) |
| family2013Cnt | 2013일반가구수 (가구) | 30 | 0 | 382732 | 2013일반가구수 (가구) |
| house2013Cnt | 2013주택수 (호) | 30 | 0 | 513920 | 2013주택수 (호) |
| per2013Rate | 2013보급률 (%) | 30 | 0 | 102.9 | 2013보급률 (%) |
| family2014Cnt | 2014일반가구수 (가구) | 30 | 0 | 386287 | 2014일반가구수 (가구) |
| house2014Cnt | 2014주택수 (호) | 30 | 0 | 401738 | 2014주택수 (호) |
| per2014Rate | 2014보급률 (%) | 30 | 0 | 104 | 2014보급률 (%) |
| family2015Cnt | 2015일반가구수 (가구) | 30 | 0 | 391258 | 2015일반가구수 (가구) |
| house2015Cnt | 2015주택수 (호) | 30 | 0 | 409112 | 2015주택수 (호) |
| per2015Rate | 2015보급률 (%) | 30 | 0 | 104.6 | 2015보급률 (%) |
| family2016Cnt | 2016일반가구수 (가구) | 30 | 0 | 393675 | 2016일반가구수 (가구) |
| house2016Cnt | 2016주택수 (호) | 30 | 0 | 409975 | 2016주택수 (호) |
| per2016Rate | 2016보급률 (%) | 30 | 0 | 104.1 | 2016보급률 (%) |
| family2017Cnt | 2017일반가구수 (가구) | 30 | 0 | 395762 | 2017일반가구수 (가구) |
| house2017Cnt | 2017주택수 (호) | 30 | 0 | 334002 | 2017주택수 (호) |
| per2017Rate | 2017보급률 (%) | 30 | 0 | 84.4 | 2017보급률 (%) |

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

d) 요청/응답 메시지 예제

|  |
| --- |
| **요청메시지** |
| http://apis.data.go.kr/6480000/gyeongnamhousesupplyrate/gyeongnamhousesupplyratelist?serviceKey=인증키&numOfRows=10&pageNo=1 |
| **응답메시지** |
| <?xml version="1.0" encoding="UTF-8"?><response>  <header>  <resultMsg>NORMAL\_CODE</resultMsg>  <resultCode>00</resultCode>  </header>  <body>  <items>  <item>  <house2016Cnt>409975</house2016Cnt>  <house2010Cnt>375731</house2010Cnt>  <family2013Cnt>382732</family2013Cnt>  <house2011Cnt>385519</house2011Cnt>  <per2016Rate>104.1</per2016Rate>  <per2017Rate>84.4</per2017Rate>  <family2012Cnt>379274</family2012Cnt>  <house2017Cnt>334002</house2017Cnt>  <family2010Cnt>372108</family2010Cnt>  <house2014Cnt>401738</house2014Cnt>  <family2016Cnt>393675</family2016Cnt>  <family2011Cnt>375913</family2011Cnt>  <house2015Cnt>409112</house2015Cnt>  <house2012Cnt>389264</house2012Cnt>  <per2011Rate>102.6</per2011Rate>  <family2014Cnt>386287</family2014Cnt>  <per2012Rate>102.6</per2012Rate>  <per2014Rate>104</per2014Rate>  <per2013Rate>102.9</per2013Rate>  <family2017Cnt>395762</family2017Cnt>  <family2015Cnt>391258</family2015Cnt>  <per2010Rate>101</per2010Rate>  <per2015Rate>104.6</per2015Rate>  <house2013Cnt>513920</house2013Cnt>  <signguNm>창원시</signguNm>  </item>  <item>  <house2016Cnt>141059</house2016Cnt>  <house2010Cnt>125153</house2010Cnt>  <family2013Cnt>127128</family2013Cnt>  <house2011Cnt>129082</house2011Cnt>  <per2016Rate>103.8</per2016Rate>  <per2017Rate>83.6</per2017Rate>  <family2012Cnt>125489</family2012Cnt>  <house2017Cnt>114935</house2017Cnt>  <family2010Cnt>122011</family2010Cnt>  <house2014Cnt>140986</house2014Cnt>  <family2016Cnt>135912</family2016Cnt>  <family2011Cnt>123872</family2011Cnt>  <house2015Cnt>140429</house2015Cnt>  <house2012Cnt>132895</house2012Cnt>  <per2011Rate>104.2</per2011Rate>  <family2014Cnt>128788</family2014Cnt>  <per2012Rate>105.9</per2012Rate>  <per2014Rate>109.5</per2014Rate>  <per2013Rate>107.1</per2013Rate>  <family2017Cnt>137521</family2017Cnt>  <family2015Cnt>133519</family2015Cnt>  <per2010Rate>102.6</per2010Rate>  <per2015Rate>105.2</per2015Rate>  <house2013Cnt>177372</house2013Cnt>  <signguNm>진주시</signguNm>  </item>  <item>  <house2016Cnt>59807</house2016Cnt>  <house2010Cnt>54612</house2010Cnt>  <family2013Cnt>54487</family2013Cnt>  <house2011Cnt>55519</house2011Cnt>  <per2016Rate>112</per2016Rate>  <per2017Rate>92.1</per2017Rate>  <family2012Cnt>53080</family2012Cnt>  <house2017Cnt>49076</house2017Cnt>  <family2010Cnt>50155</family2010Cnt>  <house2014Cnt>58627</house2014Cnt>  <family2016Cnt>53411</family2016Cnt>  <family2011Cnt>51709</family2011Cnt>  <house2015Cnt>58425</house2015Cnt>  <house2012Cnt>56198</house2012Cnt>  <per2011Rate>107.4</per2011Rate>  <family2014Cnt>55931</family2014Cnt>  <per2012Rate>105.9</per2012Rate>  <per2014Rate>104.8</per2014Rate>  <per2013Rate>105.5</per2013Rate>  <family2017Cnt>53306</family2017Cnt>  <family2015Cnt>53237</family2015Cnt>  <per2010Rate>108.9</per2010Rate>  <per2015Rate>109.7</per2015Rate>  <house2013Cnt>72046</house2013Cnt>  <signguNm>통영시</signguNm>  </item>  <item>  <house2016Cnt>50642</house2016Cnt>  <house2010Cnt>44571</house2010Cnt>  <family2013Cnt>43052</family2013Cnt>  <house2011Cnt>46215</house2011Cnt>  <per2016Rate>113.3</per2016Rate>  <per2017Rate>100.6</per2017Rate>  <family2012Cnt>42497</family2012Cnt>  <house2017Cnt>45147</house2017Cnt>  <family2010Cnt>41320</family2010Cnt>  <house2014Cnt>49266</house2014Cnt>  <family2016Cnt>44690</family2016Cnt>  <family2011Cnt>41950</family2011Cnt>  <house2015Cnt>49498</house2015Cnt>  <house2012Cnt>47823</house2012Cnt>  <per2011Rate>110.2</per2011Rate>  <family2014Cnt>43614</family2014Cnt>  <per2012Rate>112.5</per2012Rate>  <per2014Rate>113</per2014Rate>  <per2013Rate>113.2</per2013Rate>  <family2017Cnt>44894</family2017Cnt>  <family2015Cnt>44505</family2015Cnt>  <per2010Rate>107.9</per2010Rate>  <per2015Rate>111.2</per2015Rate>  <house2013Cnt>54112</house2013Cnt>  <signguNm>사천시</signguNm>  </item>  <item>  <house2016Cnt>188536</house2016Cnt>  <house2010Cnt>169162</house2010Cnt>  <family2013Cnt>185845</family2013Cnt>  <house2011Cnt>172868</house2011Cnt>  <per2016Rate>100.4</per2016Rate>  <per2017Rate>88.5</per2017Rate>  <family2012Cnt>179081</family2012Cnt>  <house2017Cnt>169924</house2017Cnt>  <family2010Cnt>165258</family2010Cnt>  <house2014Cnt>191613</house2014Cnt>  <family2016Cnt>187699</family2016Cnt>  <family2011Cnt>172563</family2011Cnt>  <house2015Cnt>186974</house2015Cnt>  <house2012Cnt>178423</house2012Cnt>  <per2011Rate>100.2</per2011Rate>  <family2014Cnt>192865</family2014Cnt>  <per2012Rate>99.6</per2012Rate>  <per2014Rate>99.4</per2014Rate>  <per2013Rate>100.8</per2013Rate>  <family2017Cnt>192078</family2017Cnt>  <family2015Cnt>186657</family2015Cnt>  <per2010Rate>102.4</per2010Rate>  <per2015Rate>100.2</per2015Rate>  <house2013Cnt>225386</house2013Cnt>  <signguNm>김해시</signguNm>  </item>  <item>  <house2016Cnt>48937</house2016Cnt>  <house2010Cnt>43896</house2010Cnt>  <family2013Cnt>40219</family2013Cnt>  <house2011Cnt>44702</house2011Cnt>  <per2016Rate>111.3</per2016Rate>  <per2017Rate>103.6</per2017Rate>  <family2012Cnt>40240</family2012Cnt>  <house2017Cnt>46065</house2017Cnt>  <family2010Cnt>40285</family2010Cnt>  <house2014Cnt>48736</house2014Cnt>  <family2016Cnt>43959</family2016Cnt>  <family2011Cnt>40261</family2011Cnt>  <house2015Cnt>47699</house2015Cnt>  <house2012Cnt>46011</house2012Cnt>  <per2011Rate>111</per2011Rate>  <family2014Cnt>40199</family2014Cnt>  <per2012Rate>114.3</per2012Rate>  <per2014Rate>121.2</per2014Rate>  <per2013Rate>118.1</per2013Rate>  <family2017Cnt>44465</family2017Cnt>  <family2015Cnt>43119</family2015Cnt>  <per2010Rate>109</per2010Rate>  <per2015Rate>110.6</per2015Rate>  <house2013Cnt>52354</house2013Cnt>  <signguNm>밀양시</signguNm>  </item>  <item>  <house2016Cnt>105783</house2016Cnt>  <house2010Cnt>82037</house2010Cnt>  <family2013Cnt>91253</family2013Cnt>  <house2011Cnt>85389</house2011Cnt>  <per2016Rate>111.3</per2016Rate>  <per2017Rate>97.4</per2017Rate>  <family2012Cnt>87564</family2012Cnt>  <house2017Cnt>92670</house2017Cnt>  <family2010Cnt>80074</family2010Cnt>  <house2014Cnt>100759</house2014Cnt>  <family2016Cnt>95037</family2016Cnt>  <family2011Cnt>84024</family2011Cnt>  <house2015Cnt>103777</house2015Cnt>  <house2012Cnt>91010</house2012Cnt>  <per2011Rate>101.6</per2011Rate>  <family2014Cnt>95098</family2014Cnt>  <per2012Rate>103.9</per2012Rate>  <per2014Rate>106</per2014Rate>  <per2013Rate>104.4</per2013Rate>  <family2017Cnt>95116</family2017Cnt>  <family2015Cnt>93981</family2015Cnt>  <per2010Rate>102.5</per2010Rate>  <per2015Rate>110.4</per2015Rate>  <house2013Cnt>117936</house2013Cnt>  <signguNm>거제시</signguNm>  </item>  <item>  <house2016Cnt>125260</house2016Cnt>  <house2010Cnt>92637</house2010Cnt>  <family2013Cnt>100649</family2013Cnt>  <house2011Cnt>97101</house2011Cnt>  <per2016Rate>108</per2016Rate>  <per2017Rate>97.8</per2017Rate>  <family2012Cnt>96294</family2012Cnt>  <house2017Cnt>123067</house2017Cnt>  <family2010Cnt>87494</family2010Cnt>  <house2014Cnt>117539</house2014Cnt>  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**2. OpenAPI 에러 코드정리**

|  |  |  |
| --- | --- | --- |
| **에러코드** | **에러메시지** | **설명** |
| 00 | NORMAL\_CODE | 정상 |
| 01 | APPLICATION\_ERROR | 어플리케이션 에러 |
| 02 | DB\_ERROR | 데이터베이스 에러 |
| 03 | NODATA\_ERROR | 데이터없음 에러 |
| 04 | HTTP\_ERROR | HTTP 에러 |
| 05 | SERVICETIMEOUT\_ERROR | 서비스 연결실패 에러 |
| 10 | INVALID\_REQUEST\_PARAMETER\_ERROR | 잘못된 요청 파라메터 에러 |
| 11 | NO\_MANDATORY\_REQUEST\_PARAMETERS\_ERROR | 필수요청 파라메터가 없음 |
| 12 | NO\_OPENAPI\_SERVICE\_ERROR | 해당 오픈 API 서비스가 없거나 폐기됨 |
| 20 | SERVICE\_ACCESS\_DENIED\_ERROR | 서비스 접근거부 |
| 21 | TEMPORARILY\_DISABLE\_THE\_SERVICEKEY\_ERROR | 일시적으로 사용할 수 없는 서비스 키 |
| 22 | LIMITED\_NUMBER\_OF\_SERVICE\_REQUESTS\_EXCEEDS\_ERROR | 서비스 요청제한횟수 초과에러 |
| 30 | SERVICE\_KEY\_IS\_NOT\_REGISTERED\_ERROR | 등록되지 않은 서비스키 |
| 31 | DEADLINE\_HAS\_EXPIRED\_ERROR | 기한만료된 서비스키 |
| 32 | UNREGISTERED\_IP\_ERROR | 등록되지 않은 IP |
| 33 | UNSIGNED\_CALL\_ERROR | 서명되지 않은 호출 |
| 99 | UNKNOWN\_ERROR | 기타에러 |