공공데이터 개방•공유•활용 체계 개발



한국마사회 Open API 활용가이드

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**1. 서비스 명세**

**1.1 공공데이터 OpenAPI 조회 서비스**

가. API 서비스 개요

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **API 서비스 정보** | **API명(영문)** | API214 | | |
| **API명(국문)** | 한국마사회 경주성적정보 | | |
| **API 설명** | 한국마사회 경주성적 상세정보 | | |
| **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 [] JSON [ ] MIME [ ] MTOM | | |
| **API 서비스**  **배포정보** | **서비스 URL** | http://apis.data.go.kr/B551015/API214 | | |
| **서비스 명세 URL**  **(WSDL 또는 WADL)** | http://apis.data.go.kr/B551015/API214?\_wadl&type=xml | | |
| **서비스 버전** | 1.0 | | |
| **서비스 시작일** | 2020-08-01 | **서비스 배포일** | 2020-08-01 |
| **서비스 이력** | 2020-08-01: 서비스 시작 | | |
| **메시지 교환유형** | [O] Request-Response [ ] Publish-Subscribe  [ ] Fire-and-Forgot [ ] Notification | | |
| **서비스 제공자** | 정경준 / 한국마사회 정보화기획부 / kraromeo@naver.com | | |
| **데이터 갱신주기** | 수시 | | |

나. 상세기능 목록

|  |  |  |  |
| --- | --- | --- | --- |
| **번호** | **API명(국문)** | **상세기능명(영문)** | **상세기능명(국문)** |
| 1 | 한국마사회 경주성적정보 | RaceDetailResult | 경주성적정보 |

다. 상세기능내역

1) 상세기능정보

|  |  |  |  |
| --- | --- | --- | --- |
| **상세기능 번호** | 1 | **상세기능 유형** | 조회 (목록) |
| **상세기능명(국문)** | 경주성적정보 | | |
| **상세기능 설명** | 한국마사회에서 제공하는 경주성적정보  (연령, 생년월일, 출전번호, 착차, G2F(부경), G3F(부경)\_4C(서울,제주), G4F(부경)\_3C(서울,제주), G6F(부경)\_2C(서울,제주), G8F(부경)\_1C(서울,제주), 마명 등) | | |
| **Call Back URL** | http://apis.data.go.kr/B551015/API214/RaceDetailResult | | |
| **최대 메시지 사이즈** | [4000] byte | | |
| **평균 응답 시간** | [500] ms | **초당 최대 트랙잭션** | [30] tps |

2) 요청 메시지 명세

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **항목명(영문)** | **항목명(국문)** | **항목크기** | **항목구분** | **샘플데이터** | **항목설명** |
| ServiceKey | 서비스키 | 4 | 1 | 00 | 공공데이터포털에서 받은 인증키 |
| numOfRows | 한 페이지 결과 수 | 4 | 1 | 10 | 한 페이지 결과 수 |
| pageNo | 페이지 번호 | 4 | 1 | 1 | 페이지 번호 |
| rc\_year | 경주년도 | 4 | 0 | 2020 | 경주년도(YYYY 형식) |
| rc\_month | 경주년월 | 6 | 0 | 202002 | 경주년월(YYYYMM 형식) |
| rc\_date | 경주일자 | 8 | 0 | 20200222 | 경주일자(YYYYMMDD 형식) |

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

3) 응답 메시지 명세

| **항목명(영문)** | **항목명(국문)** | **항목크기** | **항목구분** | **샘플데이터** | **항목설명** |
| --- | --- | --- | --- | --- | --- |
| resultCode | 결과코드 | 2 | 1 | 00 | 결과코드 |
| resultMsg | 결과메세지 | 50 | 1 | NORMAL SERVICE | 결과메시지 |
| numOfRows | 한 페이지 결과 수 | 4 | 1 | 10 | 한 페이지당 표출 데이터 수 |
| pageNo | 페이지 수 | 4 | 1 | 1 | 페이지 수 |
| totalCount | 데이터 총 개수 | 4 | 1 | 209 | 데이터 총 개수 |
| age | 연령 | 3 | 1 | 4 | 연령 |
| birthday | 생년월일 | 8 | 1 | 20160527 | 생년월일 |
| chulNo | 출전번호 | 3 | 1 | 7 | 출전번호 |
| diffUnit | 착차 | 10 | 0 | - | 착차 |
| g2f | G2F(부경) | 2 | 1 | 0 | G2F(부경) |
| g3f\_4c | G3F(부경)\_4C(서울,제주) | 2 | 1 | 4 | G3F(부경)\_4C(서울,제주) |
| g4f\_3c | G4F(부경)\_3C(서울,제주) | 2 | 1 | 6 | G4F(부경)\_3C(서울,제주) |
| g6f\_2c | G6F(부경)\_2C(서울,제주) | 2 | 1 | 0 | G6F(부경)\_2C(서울,제주) |
| g8f\_1c | G8F(부경)\_1C(서울,제주) | 2 | 1 | 0 | G8F(부경)\_1C(서울,제주) |
| hrName | 마명 | 30 | 1 | 티즈시티 | 마명 |
| hrNo | 마번 | 6 | 1 | 039480 | 마번 |
| hrTool | 장구내역 | 100 | 1 | 계란형큰,망사눈 | 장구내역 |
| jkName | 기수명 | 30 | 1 | 안토니오 | 기수명 |
| jkNo | 기수번호 | 6 | 1 | 080576 | 기수번호 |
| meet | 경마장명 | 20 | 1 | 서울 | 경마장명 |
| name | 마필생산국가 | 20 | 1 | 한국 | 마필생산국가 |
| ord | 순위 | 2 | 1 | 1 | 순위 |
| ordBigo | 순위비고 | 30 | 0 | - | 순위비고 |
| ordG1f | G1F순위 | 2 | 1 | 1 | G1F순위 |
| ordS1f | S1F순위 | 2 | 1 | 6 | S1F순위 |
| owName | 마주명 | 20 | 1 | 김병진 | 마주명 |
| owNo | 마주번호 | 6 | 1 | 111044 | 마주번호 |
| plcOdds | 복승식 배당율 | 8, 1 | 1 | 1.3 | 복승식 배당율 |
| rankRise | 승군순위 | 1 | 1 | 5 | 승군순위 |
| rating | 레이팅 | 6 | 0 | - | 레이팅 |
| rcDate | 경주일자 | 8 | 1 | 20200222 | 경주일자 |
| rcDay | 경주요일 | 20 | 1 | 토요일 | 경주요일 |
| rcNo | 경주번호 | 2 | 1 | 1 | 경주번호 |
| rcTime | 경주기록 | 5, 1 | 1 | 61.3 | 경주기록 |
| rcTimeG1f | G1F기록 | 5, 1 | 1 | 12 | G1F기록 |
| rcTimeG2f | G2F기록(부경) | 5, 1 | 1 | 0 | G2F기록(부경) |
| rcTimeG3f | G3F기록 | 5, 1 | 1 | 36 | G3F기록 |
| rcTimeS1f | S1F기록 | 5, 1 | 1 | 13.9 | S1F기록 |
| rcTime\_1c | 1C 기록 | 5, 1 | 1 | 0 | 1C 기록 |
| rcTime\_2c | 2C 기록 | 5, 1 | 1 | 0 | 2C 기록 |
| rcTime\_3c | 3C 기록 | 5, 1 | 1 | 13 | 3C 기록 |
| rcTime\_400 | 400기록부경) | 5, 1 | 1 | 0 | 400기록부경) |
| rcTime\_4c | 4C 기록 | 5, 1 | 1 | 30.5 | 4C 기록 |
| sex | 성별 | 10 | 1 | 수 | 성별 |
| trName | 조교사명 | 20 | 1 | 서인석 | 조교사명 |
| trNo | 조교사번호 | 6 | 1 | 070165 | 조교사번호 |
| wgBudam | 부담중량 | 4, 1 | 1 | 56.5 | 부담중량 |
| wgBudamBigo | 부담중량증량신청표기 | 1 | 0 | - | 부담중량증량신청표기 |
| wgHr | 마체감량 | 20 | 1 | 481(-7) | 마체감량 |
| wgJk | 기수감량 | 4, 1 | 1 | 0 | 기수감량 |
| winOdds | 단승식배당율 | 8, 1 | 1 | 4.2 | 단승식배당율 |

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

4) 요청/응답 메시지 예제

|  |
| --- |
| **요청메시지** |
| http://apis.data.go.kr/B551015/API214/RaceDetailResult?ServiceKey=인증키(URL Encode)&numOfRows=10&pageNo=1&rc\_year=2020&rc\_month=202002&rc\_date=20200222 |
| **응답메시지** |
| <?xml version="1.0" encoding="UTF-8" standalone="true"?>  <response>  <header>  <resultCode>00</resultCode>  <resultMsg>NORMAL SERVICE.</resultMsg>  </header>  <body>  <items>  <item>  <age>4</age>  <birthday>20160527</birthday>  <chulNo>7</chulNo>  <diffUnit>-</diffUnit>  <g2f>0</g2f>  <g3f\_4c>4</g3f\_4c>  <g4f\_3c>6</g4f\_3c>  <g6f\_2c>0</g6f\_2c>  <g8f\_1c>0</g8f\_1c>  <hrName>티즈시티</hrName>  <hrNo>039480</hrNo>  <hrTool>계란형큰, 망사눈</hrTool>  <jkName>안토니오</jkName>  <jkNo>080576</jkNo>  <meet>서울</meet>  <name>한국</name>  <ord>1</ord>  <ordBigo>-</ordBigo>  <ordG1f>1</ordG1f>  <ordS1f>6</ordS1f>  <owName>김병진</owName>  <owNo>111044</owNo>  <plcOdds>1.3</plcOdds>  <rankRise>5</rankRise>  <rating>-</rating>  <rcDate>20200222</rcDate>  <rcDay>토요일</rcDay>  <rcNo>1</rcNo>  <rcTime>61.3</rcTime>  <rcTimeG1f>12</rcTimeG1f>  <rcTimeG2f>0</rcTimeG2f>  <rcTimeG3f>36</rcTimeG3f>  <rcTimeS1f>13.9</rcTimeS1f>  <rcTime\_1c>0</rcTime\_1c>  <rcTime\_2c>0</rcTime\_2c>  <rcTime\_3c>13</rcTime\_3c>  <rcTime\_400>0</rcTime\_400>  <rcTime\_4c>30.5</rcTime\_4c>  <sex>수</sex>  <trName>서인석</trName>  <trNo>070165</trNo>  <wgBudam>56.5</wgBudam>  <wgBudamBigo>-</wgBudamBigo>  <wgHr>481(-7)</wgHr>  <wgJk>0</wgJk>  <winOdds>4.2</winOdds>  </item>  <item>  <age>3</age>  <birthday>20170309</birthday>  <chulNo>9</chulNo>  <diffUnit>4</diffUnit>  <g2f>0</g2f>  <g3f\_4c>5</g3f\_4c>  <g4f\_3c>3</g4f\_3c>  <g6f\_2c>0</g6f\_2c>  <g8f\_1c>0</g8f\_1c>  <hrName>드림걸스</hrName>  <hrNo>040629</hrNo>  <hrTool>Triabit+</hrTool>  <jkName>최범현</jkName>  <jkNo>080361</jkNo>  <meet>서울</meet>  <name>한국</name>  <ord>2</ord>  <ordBigo>-</ordBigo>  <ordG1f>3</ordG1f>  <ordS1f>3</ordS1f>  <owName>드림커뮤니티</owName>  <owNo>112278</owNo>  <plcOdds>1.2</plcOdds>  <rankRise>5</rankRise>  <rating>-</rating>  <rcDate>20200222</rcDate>  <rcDay>토요일</rcDay>  <rcNo>1</rcNo>  <rcTime>62.1</rcTime>  <rcTimeG1f>13</rcTimeG1f>  <rcTimeG2f>0</rcTimeG2f>  <rcTimeG3f>37</rcTimeG3f>  <rcTimeS1f>13.6</rcTimeS1f>  <rcTime\_1c>0</rcTime\_1c>  <rcTime\_2c>0</rcTime\_2c>  <rcTime\_3c>13</rcTime\_3c>  <rcTime\_400>0</rcTime\_400>  <rcTime\_4c>30.6</rcTime\_4c>  <sex>암</sex>  <trName>우창구</trName>  <trNo>070149</trNo>  <wgBudam>54</wgBudam>  <wgBudamBigo>-</wgBudamBigo>  <wgHr>425(-9)</wgHr>  <wgJk>0</wgJk>  <winOdds>2.7</winOdds>  </item>  <item>  <age>3</age>  <birthday>20170430</birthday>  <chulNo>11</chulNo>  <diffUnit>½</diffUnit>  <g2f>0</g2f>  <g3f\_4c>1</g3f\_4c>  <g4f\_3c>4</g4f\_3c>  <g6f\_2c>0</g6f\_2c>  <g8f\_1c>0</g8f\_1c>  <hrName>월드특급</hrName>  <hrNo>041620</hrNo>  <hrTool>반가지큰, 망사눈</hrTool>  <jkName>조상범</jkName>  <jkNo>080533</jkNo>  <meet>서울</meet>  <name>한국</name>  <ord>3</ord>  <ordBigo>-</ordBigo>  <ordG1f>2</ordG1f>  <ordS1f>4</ordS1f>  <owName>김명식</owName>  <owNo>010226</owNo>  <plcOdds>12.1</plcOdds>  <rankRise>5</rankRise>  <rating>-</rating>  <rcDate>20200222</rcDate>  <rcDay>토요일</rcDay>  <rcNo>1</rcNo>  <rcTime>62.2</rcTime>  <rcTimeG1f>13</rcTimeG1f>  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**2. OpenAPI 에러 코드정리**

|  |  |  |
| --- | --- | --- |
| **에러코드** | **에러메시지** | **설명** |
| 1 | APPLICATION\_ERROR | 어플리케이션 에러 |
| 10 | INVALID\_REQUEST\_PARAMETER\_ERROR | 잘못된 요청 파라메터 에러 |
| 12 | NO\_OPENAPI\_SERVICE\_ERROR | 해당 오픈API서비스가 없거나 폐기됨 |
| 20 | SERVICE\_ACCESS\_DENIED\_ERROR | 서비스 접근거부 |
| 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 |
| 99 | UNKNOWN\_ERROR | 기타에러 |