## 1. 서비스 개요

<table>
<thead>
<tr>
<th>서비스 정보</th>
<th>서비스 ID</th>
<th>SC-SD-WI-WB-001</th>
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<tbody>
<tr>
<td>서비스명(국문)</td>
<td>항공기상정보</td>
<td></td>
</tr>
<tr>
<td>서비스명(영문)</td>
<td>amoApi</td>
<td></td>
</tr>
<tr>
<td>서비스 설명</td>
<td>IXWXM Ver 2.0 항공기상정보(METAR/SPECI, TAF, SIGMET, AIRMET)</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>서비스 제공자 정보</th>
<th>기관명</th>
<th>항공기상청</th>
</tr>
</thead>
<tbody>
<tr>
<td>서비스 인증/권한</td>
<td>[ ] 서비스 Key [ ] 인증서 (GPKI) [ ] Basic (ID/PW) [0] 없음</td>
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<tr>
<td>메시지 암호화/암호화</td>
<td>[ ] 전자서명 [ ] 암호화 [0] 없음</td>
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<td>전송 암호화</td>
<td>[ ] SSL [0] 없음</td>
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<table>
<thead>
<tr>
<th>적용 기술 수준</th>
<th>인터페이스 표준</th>
<th>[ ] SOAP 1.2 (RPC-Encoded, Document Literal, Document Literal Wrapped) [0] REST (GET, POST, PUT, DELETE) [ ] RSS 1.0 [ ] RSS 2.0 [ ] Atom 1.0 [ ] 기타</th>
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<tr>
<td>교환 데이터 표준</td>
<td>[0] XML [ ] JSON [ ] MIME [ ] MTOM</td>
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<th>개발환경</th>
<th><a href="http://localhost:8088/amoApi">http://localhost:8088/amoApi</a></th>
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<tbody>
<tr>
<td>운영환경</td>
<td><a href="http://amoapi.kma.go.kr/amoApi">http://amoapi.kma.go.kr/amoApi</a></td>
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<td>운영환경</td>
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<td>유효일자</td>
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<tr>
<td>서비스 이력</td>
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| 메시지 교환 유형 | [0] Request-Response [ ] Publish-Subscribe | [ ] Fire-and-Forgot | [ ] Notification |
|----------------|------------------------------------------|---------------------|
| 메시지 로깅 수준 | 성공 [ ] Header [ ] Body | 실패 [0] Header [0] Body |

| 사용 제약 사항 (비고) | N/A |

## 2. 오퍼레이션 목록

<table>
<thead>
<tr>
<th>일련 번호</th>
<th>서비스명 (국문)</th>
<th>오퍼레이션명(영문)</th>
<th>오퍼레이션명(국문)</th>
<th>메시지명(영문)</th>
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<tbody>
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</table>
(1) METAR / SPECI 조회

<table>
<thead>
<tr>
<th>오퍼레이션 번호</th>
<th>오퍼레이션 명세</th>
<th>메시지명(영문)</th>
<th>메시지타입</th>
<th>HTTP Method</th>
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<tbody>
<tr>
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<td>오퍼레이션 번호 조회(목록)</td>
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<td>변수형</td>
<td>[ 0 ] REST (GET, POST, PUT, DELETE)</td>
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<tr>
<td>오퍼레이션 유형</td>
<td>오퍼레이션 설명</td>
<td>항공기상관측 자료(정시관측/특별관측)를 국제민간항공기구(ICAO)에서 정한 표준 항공기상정보교환모델로 변환한 정보.</td>
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<td>초당 최대 트랜잭션</td>
<td>[30tps]</td>
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<tr>
<td>메시지설명</td>
<td>국내 공항의 ICAO 코드</td>
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<td>선행 오퍼레이션</td>
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<td>호출메시지의 국내공항 ICAO 코드에 따라 유효한 METAR/SPECI 전문 (IWXXM 형식)을 제공한다.</td>
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HTTP Method

[ 0 ] REST (GET, POST, PUT, DELETE)

요청 메시지 명세

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<th>항목명(영문)</th>
<th>항목명(국문)</th>
<th>항목크기</th>
<th>항목구분</th>
<th>샘플데이터</th>
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<td>국내공항의 ICAO 코드</td>
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<td>RKPS 사천공항</td>
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<td>RKJK 군산공항</td>
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<td>항목크기</td>
<td>항목구분</td>
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<td>1</td>
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<td>10</td>
<td>1</td>
<td>INCHEON INTERNATIONAL AIRPORT</td>
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<td>sams:shape</td>
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<td>1</td>
<td>37.28 126.26 7.0</td>
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<td>iwxxm:airTemperature</td>
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<td>4</td>
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<td>12</td>
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<td>iwxxm:dewpointTemperature</td>
<td>이슬점 온도</td>
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<td>1</td>
<td>7</td>
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<td>iwxxm:qnh</td>
<td>기압</td>
<td>10</td>
<td>1</td>
<td>1016</td>
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<td>iwxxm:meanWindDirection</td>
<td>풍향</td>
<td>10</td>
<td>1</td>
<td>200</td>
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<tr>
<td>iwxxm:meanWindSpeed</td>
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<td>1</td>
<td>007</td>
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<tr>
<td>iwxxm:windGustSpeed</td>
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<td>1</td>
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<td>iwxxm:extremeClockwiseWindDirection</td>
<td>풍향변동폭</td>
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<td>iwxxm:extremeCounterClockwiseWindDirection</td>
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<td>iwxxm:AerodromeObservedClouds</td>
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<td>1000</td>
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<td><a href="http://codes.wmo.int/bufr4/codeflag/0-20-012/6">http://codes.wmo.int/bufr4/codeflag/0-20-012/6</a></td>
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<td><a href="http://codes.wmo.int/306/4678/HZ">http://codes.wmo.int/306/4678/HZ</a></td>
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</table>
요청 / 응답 메시지 예제

<table>
<thead>
<tr>
<th>SOAP(요청메세지)</th>
<th>REST(URI)</th>
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<tbody>
<tr>
<td><a href="http://amoapi.kma.go.kr/amoApi/iwxxm/metar?icao=RKSI">http://amoapi.kma.go.kr/amoApi/iwxxm/metar?icao=RKSI</a></td>
<td></td>
</tr>
</tbody>
</table>

응답 메시지

```xml
  <msgText>METAR RKSI 270900Z 2007G34KT 170V240 4200 HZ FEW025 12/07 Q1016 NOSIG="</msgText>
  <iwxxm:observation>
    <om:OM_Observation gml:id="obs-RKSI-20180327090000Z">  
      <om:phenomenonTime>
        <gml:TimeInstant gml:id="ti-20180327090000Z">
          <gml:timePosition>2018-03-27T09:00:00Z</gml:timePosition>
        </gml:TimeInstant>
        <om:resultTime xlink:href="#ti-20180327090000Z"/>
        <om:procedure>
          <metce:Process gml:id="p-49-2-metar">  
            <gml:description>WMO No. 49 Volume 2 Meteorological Service for International Air Navigation APPENDIX 3 TECHNICAL SPECIFICATIONS RELATED TO METEOROLOGICAL OBSERVATIONS AND REPORTS</gml:description>
          </metce:Process>
        </om:procedure>
      </om:phenomenonTime>
      <om:observedProperty xlink:href="http://codes.wmo.int/49-2/observable-property/MeteorologicalAerodromeObservation">  
        <sams:SF_SpatialSamplingFeature gml:id="sp-RKSI">  
          <sf:type xlink:href="http://www.opengis.net/def/samplingFeatureType/OGC-OM/2.0/SF_SamplingPoint">  
            <sams:shape>
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                <gml:pos>37.28 126.26 7.0</gml:pos>
              </gml:Point>
            </sams:shape>
          </sams:SF_SpatialSamplingFeature>
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      </om:observedProperty>
    </om:OM_Observation>
  </iwxxm:observation>
</iwxxm:METAR>
```
(2) TAF 조회

<table>
<thead>
<tr>
<th>오퍼레이션 번호</th>
<th>오퍼레이션 명</th>
<th>오퍼레이션 번호</th>
<th>오퍼레이션 명</th>
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<tbody>
<tr>
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<th>오퍼레이션 유형</th>
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<tbody>
<tr>
<td>중요 기상 상태에 대한 예보를 국제민간항공기구(ICAO)에서 정한 표준 항공기상정보교환모델로 변환한 정보</td>
<td>조회(목록)</td>
</tr>
</tbody>
</table>

- 참고자료: TAF 해석방법, TAF 형판

<table>
<thead>
<tr>
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<th>최대 메시지 사이즈</th>
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<tbody>
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<table>
<thead>
<tr>
<th>평균 응답 시간</th>
<th>초당 최대 트랜잭션</th>
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</thead>
<tbody>
<tr>
<td>[10ms]</td>
<td>[30tps]</td>
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</table>

<table>
<thead>
<tr>
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<th>TafByAirport</th>
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</table>

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<th>메시지타입</th>
<th>변수형</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>메시지설명</th>
<th>국내 공항의 ICAO 코드</th>
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</thead>
</table>

<table>
<thead>
<tr>
<th>선행 오퍼레이션</th>
<th>N/A</th>
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</thead>
</table>

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<tr>
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<th>TAF</th>
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<tr>
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<th>XML</th>
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<table>
<thead>
<tr>
<th>메시지 설명</th>
<th>호출메시지의 국내공항 ICAO 코드에 따라 TAF 전문IWXXM 형식을 제공한다.</th>
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</thead>
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HTTP Method: [O] REST (GET, POST, PUT, DELETE)

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1. 요청 메시지 명세

<table>
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<th>/END POINT URL</th>
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<th>항목명(국문)</th>
<th>항목크기</th>
<th>항목구분</th>
<th>샘플데이터</th>
<th>항목설명</th>
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</thead>
<tbody>
<tr>
<td>icao</td>
<td>ICAO 코드</td>
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<td>TAF RKJB 292300Z 3000/3106 11006KT 2400 BR SCT010 TX19/3006Z TN07/3021Z TX19/3106Z BECMG 3001/3002 14007KT 4200 BECMG 3003/3004 6000 NSW NSC BECMG 3012/3013 11005KT 4200 BR BECMG 3021/3022 16007KT 6000 NSW=</td>
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요청 / 응답 메시지 예제

### SOAP(요청 메시지)

```xml
http://amoapi.kma.go.kr/amoApi/iwxxm/taf?icao=RKSI
```

### 응답 메시지

```xml
  <msgText>TAF RKJB 292300Z 3000/3106 11006KT 2400 BR SCT010
  TX19/3006Z TN07/3021Z TX19/3106Z
  BECMG 3001/3002 14007KT 4200
  BECMG 3003/3004 6000 NSW NSC
  BECMG 3012/3013 11005KT 4200 BR
  BECMG 3021/3022 16007KT 6000 NSW</msgText>

  <iwxxm:issueTime>
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      <gml:timePosition>2018-03-29T23:00:00Z</gml:timePosition>
    </gml:TimeInstant>
  </iwxxm:issueTime>

  <iwxxm:validTime>
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  </iwxxm:validTime>

  <iwxxm:baseForecast>
    <om:OM_Observation gml:id="bf-1">
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      <om:phenomenonTime xlink:href="#tp-201803300000-201803310600"/>
      <om:resultTime xlink:href="#ti-201803292300Z"/>
      <om:validTime xlink:href="#tp-201803300000-201803310600"/>
      <om:procedure>
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        <gml:description>WMO No. 49 Volume 2 Meteorological Service for International Air Navigation APPENDIX 5 TECHNICAL SPECIFICATIONS RELATED TO FORECASTS</gml:description>
      </om:procedure>
    </om:OM_Observation>
    <om:observedProperty xlink:href="http://codes.wmo.int/49-2/observable-property/MeteorologicalAerodromeForecast"/>
    <sams:SF_SpatialSamplingFeature xlink:href="#sp-RKJB">
      <sf:type xlink:href="http://www.opengis.net/def/samplingFeatureType/OGC-OM/2.0/SF_SamplingPoint"/>
      <sf:sampledFeature>
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              <gml:validTime/>
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              <aixm:designator>RKJB</aixm:designator>
              <aixm:name>MUAN INTERNATIONAL AIRPORT</aixm:name>
              <aixm:locationIndicatorICAO>RKJB</aixm:locationIndicatorICAO>
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  </iwxxm:baseForecast>
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```
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    <om:result>
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        </iwxxm:surfaceWind>
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    </om:result>
  </om:OM_Observation>
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        <iwxxm:surfaceWind>
          <iwxxm:AerodromeSurfaceWindForecast variableWindDirection="false">
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          </iwxxm:AerodromeSurfaceWindForecast>
        </iwxxm:surfaceWind>
        <iwxxm:prevailingVisibility uom="m">6000</iwxxm:prevailingVisibility>
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      </iwxxm:MeteorologicalAerodromeForecastRecord>
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        <iwxxm:surfaceWind>
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### (3) SIGMET 조회

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* 참고자료: 공항경보, SIGMET, AIRMET 해석방법, SIGMET,AIRMET형판

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HTTP Method: [ 0 ] REST (GET, POST, PUT, DELETE)

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1. 요청 메시지 명세

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요청 / 응답 메시지 예제

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<th>REST(URI)</th>
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응답 메시지

```xml
  <iwxxm:msgText>RKRR SIGMET A01 VALID 300403/301003 RKSI-RKRR INCHEON FIR EMBD TS OBS WI N3228 E12403 - N3320 E12807 - N3143 E12852 - N3059 E12327 - N3228 E12403 TOP FL290 MOV ENE 30KT</iwxxm:msgText>
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      <gml:endPosition>2018-03-30T10:03:00Z</gml:endPosition>
    </gml:TimePeriod>
  </iwxxm:validPeriod>
  <iwxxm:analysis>
    <om:OM_Observation gml:id="analysis">
      <om:type xlink:href="http://codes.wmo.int/49-2/observation-type/iwxxm/1.0/SIGMETEvolvingConditionAnalysis"/>
      <om:phenomenonTime nilReason="missing"/>
      <om:resultTime>
        <gml:TimeInstant gml:id="ti-201803300403Z">
          <gml:timePosition>2018.03.30 04:03</gml:timePosition>
        </gml:TimeInstant>
      </om:resultTime>
      <om:validTime xlink:href="#tp-20180330T0403Z-20180330T1003Z"/>
      <om:procedure>
        <metce:Process gml:id="p-49-2-SIGMET">
          <gml:description>WMO No. 49 Volume 2 Meteorological Service for International Air Navigation APPENDIX 6-1 TECHNICAL SPECIFICATIONS RELATED TO SIGMET INFORMATION</gml:description>
          <metce:Process>
            <om:procedure>
              <om:observedProperty xlink:href="http://codes.wmo.int/49-2/observable-property/SIGMETEvolvingConditionCollectionAnalysis"/>
              <sams:SF_SpatialSamplingFeature gml:id="SI-Incheon">
                <sf:type xlink:href="http://www.opengis.net/def/samplingFeatureType/OGC-OM/2.0/SF_SamplingSurface"/>
                <sf:sampledFeature>
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                    <aixm:timeSlice>
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                        <gml:validTime/>
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                        <aixm:name>Incheon FIR</aixm:name>
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                <sf:sampledFeature>
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                  </aixm:Airspace>
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              </sams:SF_SpatialSamplingFeature>
            </om:procedure>
          </metce:Process>
        </metce:Process>
      </om:procedure>
    </om:OM_Observation>
  </iwxxm:analysis>
</iwxxm:SIGMET>
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<aixm:Airspace>
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<om:result>
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<aixm:upperLimit uom="FL">290</aixm:upperLimit>
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<iwxxm:OM_Observation>
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<iwxxm:SIGMET>
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<tr>
<th>오퍼레이션 번호</th>
<th>4</th>
<th>오퍼레이션명(국문)</th>
<th>오퍼레이션명(영문)</th>
</tr>
</thead>
<tbody>
<tr>
<td>오퍼레이션 유형</td>
<td>조회(목록)</td>
<td>오퍼레이션 설명</td>
<td>'저고도(FL100 이하)를 운항하는 항공기이 위험을 초래할 수 있는 기상 현상과 이러한 현상의 시·공간적 변화에 대한 정보를 국제민간항공기 구(ICAO)에서 정한 표준 항공기상정보교환모델로 변환한 정보'</td>
</tr>
<tr>
<td>오퍼레이션 설명</td>
<td></td>
<td>Call Back URL</td>
<td>N/A</td>
</tr>
<tr>
<td>최근 메시지 사이즈</td>
<td>[2Kbytes]</td>
<td>평균 응답 시간</td>
<td>[10ms]</td>
</tr>
<tr>
<td>초당 최대 트랜잭션</td>
<td>[30tps]</td>
<td></td>
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</tr>
<tr>
<td>호출 메시지 정보</td>
<td>메시지명(영문)</td>
<td>AIRMET</td>
<td></td>
</tr>
<tr>
<td>메시지타입</td>
<td>변수형</td>
<td></td>
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</tr>
<tr>
<td>메시지설명</td>
<td>변수 없음</td>
<td></td>
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<tr>
<td>응답 메시지 정보</td>
<td>메시지명(영문)</td>
<td>AIRMET</td>
<td></td>
</tr>
<tr>
<td>메시지 타입</td>
<td>리스트형</td>
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</tr>
<tr>
<td>메시지 설명</td>
<td>현재 발효중인 AIRMET 전문 (IWXXM 형식)을 출력한다.</td>
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<tr>
<td>HTTP Method</td>
<td>[ 0 ] REST (GET, POST, PUT, DELETE)</td>
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</tbody>
</table>

1. 요청 메시지 형식

<table>
<thead>
<tr>
<th>메시지명(영문)</th>
<th>END POINT URL</th>
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<tbody>
<tr>
<td><a href="http://amoapi.kma.go.kr/amoApi/iwxxm/airmet">http://amoapi.kma.go.kr/amoApi/iwxxm/airmet</a></td>
<td>/END POINT URL</td>
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<tr>
<td>항목명(영문)</td>
<td>항목명(국문)</td>
</tr>
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<td>------------</td>
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<tr>
<td>iwxxm:sequenceNumber</td>
<td>발행번호</td>
</tr>
<tr>
<td>iwxxm:issueTime</td>
<td>발행시간</td>
</tr>
<tr>
<td>iwxxm:validPeriod</td>
<td>유효시간</td>
</tr>
<tr>
<td>om:featureOfInterest</td>
<td>발행공항</td>
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<tr>
<td>iwxxm:geometry</td>
<td>발행범위</td>
</tr>
<tr>
<td>iwxxm:EvolvingMeteorologicalCondition</td>
<td>강도</td>
</tr>
<tr>
<td>iwxxm:directionOfMotion</td>
<td>이동방향</td>
</tr>
<tr>
<td>iwxxm:speedOfMotion</td>
<td>이동속도</td>
</tr>
<tr>
<td>iwxxm:surfaceVisibility</td>
<td>시정</td>
</tr>
<tr>
<td>iwxxm:surfaceVisibilityCause</td>
<td>기상현상</td>
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요청 / 응답 메시지 예제

<table>
<thead>
<tr>
<th>SOAP(요청메세지)</th>
<th>REST(URI)</th>
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<td></td>
<td><a href="http://amoapi.kma.go.kr/amoApi/iwxxm/airmet">http://amoapi.kma.go.kr/amoApi/iwxxm/airmet</a></td>
</tr>
</tbody>
</table>

응답 메시지

```xml
<iwxxm:AIRMET xmlns:aixm="http://www.aixm.aero/schema/5.1.1" xmlns:gml="http://www.opengis.net/gml/3.2"
  <!-- 요청메세지 -->
  <iwxxm:msgText>RKRR AIRMET B01 VALID 300233/300633 RKSI-
  <iwxxm:sequenceNumber>B01</iwxxm:sequenceNumber>
  <iwxxm:validPeriod>
    <gml:TimePeriod gml:id="tp-20180330T0233Z-20180330T0633Z">
      <gml:beginPosition>2018-03-30T02:33:00Z</gml:beginPosition>
      <gml:endPosition>2018-03-30T06:33:00Z</gml:endPosition>
    </gml:TimePeriod>
  </iwxxm:validPeriod>
  <iwxxm:analysis>
    <om:OM_Observation gml:id="analysis">
      <om:phenomenonTime nilReason="missing"/>
      <om:resultTime>
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        </gml:TimeInstant>
      </om:resultTime>
      <om:validTime xlink:href="#tp-20180330T0233Z-20180330T0633Z"/>
      <om:procedure>
        <metce:Process gml:id="p-49-2-AIRMET" description="WMO No. 49 Volume 2 Meteorological Service for International Air Navigation APPENDIX 6-1 TECHNICAL SPECIFICATIONS RELATED TO AIRMET INFORMATION"></metce:Process>
      </om:procedure>
      <om:observedProperty xlink:href="http://codes.wmo.int/49-2/observable-property/AIRMETEvolvingConditionAnalysis"/>
      <om:featureOfInterest>
        <sams:SF_SpatialSamplingFeature gml:id="SI-Incheon"/>
        <sf:type xlink:href="http://www.opengis.net/def/samplingFeatureType/OGC-OM/2.0/SF_SamplingSurface"/>
        <sf:sampledFeature>
          <aixm:Airspace gml:id="d19f16a4-7c7e-4a2b-89df-418ffbo6a12a">
            <aixm:timeSlice>
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                <aixm:interpretation>BASELINE</aixm:interpretation>
              </aixm:AirspaceTimeSlice>
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        </sf:sampledFeature>
      </om:featureOfInterest>
    </om:OM_Observation>
  </iwxxm:analysis>
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```
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  <iwxmm:geometry>
    <iwxmm:AirspaceVolume gml:id="av-SFCVIS-0BS-RKRR-20180330T0233Z">
      <iwxmm:horizontalProjection>
        <iwxmm:Surface axisLabels="Lat Lon" gml:id="polygon-SFCVIS-0BS-position-RKRR-20180330T0233Z" srsDimension="2" srsName="http://www.opengis.net/def/crs/EPSG/0/4326" uomLabels="deg deg">
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            <gml:PolygonPatch>
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                <gml:LinearRing>
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              </gml:LinearRing>
            </gml:exterior>
          </gml:PolygonPatch>
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    </iwxmm:horizontalProjection>
  </iwxmm:AirspaceVolume>
  <iwxmm:directionOfMotion uom="deg">90.0</iwxmm:directionOfMotion>
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