



# GMDviaMBMSbyxMB

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## OpenAPI

OpenAPI Version: 3.0.0

## Info

**Title:** GMDviaMBMSbyxMB

**Description:** API for Group Message Delivery via MBMS by xMB

**Version:** "1.0.0"

## Servers

**URL:** '{apiRoot}/3gpp-group-message-delivery-xmb/v1'

**Variables:**

**API Root:**

**Default:** https://example.com

**Description:** apiRoot as defined in subclause 5.2.4 of 3GPP TS 29.122.

## Security

- {}
- oAuth2ClientCredentials: []

# Paths

## **{scsAsId}/services/**

### **get:**

**Summary:** read all service resources for a given SCS/AS

### **Tags:**

- Service Operation

### **Parameters:**

- **Name:** scsAsId  
**In:** path  
**Description:** Identifier of SCS/AS  
**Required/Optional:** true  
**Schema:**  
**Type:** string

### **Responses:**

'200':

**Description:** OK (successful query of service creation resource)

**Content:**

**Application/JSON:**

**Schema:**

**Type:** array

**Items:**

**Reference:** '#/components/schemas/ServiceCreation'

**Min Items:** 0

**Description:** The service resource for the SCS/AS in the request URI is returned.

'400':

**Reference:** 'TS29122\_CommonData.yaml#/components/responses/400'

'401':

**Reference:** 'TS29122\_CommonData.yaml#/components/responses/401'

'403':

**Reference:** 'TS29122\_CommonData.yaml#/components/responses/403'

'404':

**Reference:** 'TS29122\_CommonData.yaml#/components/responses/404'

'406':

**Reference:** 'TS29122\_CommonData.yaml#/components/responses/406'

'429':

**Reference:** 'TS29122\_CommonData.yaml#/components/responses/429'

'500':

**Reference:** 'TS29122\_CommonData.yaml#/components/responses/500'

'503':

**Reference:** 'TS29122\_CommonData.yaml#/components/responses/503'

**Default:**

**Reference:** 'TS29122\_CommonData.yaml#/components/responses/default'

**Method:** Post

**Summary:** creates a new service creation resource for a given SCS/AS

**Tags:**

- Service Operation

**Parameters:**

- **Name:** scsAsId
  - In:** path
  - Description:** Identifier of SCS/AS
  - Required/Optional:** true
  - Schema:**
    - Type:** string

**Request Body:**

- Description:** representation of the service to be created in the SCEF
- Required/Optional:** true
- Content:**
  - Application/JSON:**
    - Schema:**
      - Reference:** '#/components/schemas/ServiceCreation'

**Responses:**

- '201':
  - Description:** successful creation of a service
  - Content:**
    - Application/JSON:**
      - Schema:**
        - Reference:** '#/components/schemas/ServiceCreation'
  - Headers:**
    - Location:**
      - Description:** 'Contains the URI of the newly created resource'
      - Required/Optional:** true
      - Schema:**
        - Type:** string
- '400':
  - Reference:** 'TS29122\_CommonData.yaml#/components/responses/400'
- '401':
  - Reference:** 'TS29122\_CommonData.yaml#/components/responses/401'
- '403':
  - Reference:** 'TS29122\_CommonData.yaml#/components/responses/403'
- '404':
  - Reference:** 'TS29122\_CommonData.yaml#/components/responses/404'
- '411':
  - Reference:** 'TS29122\_CommonData.yaml#/components/responses/411'
- '413':
  - Reference:** 'TS29122\_CommonData.yaml#/components/responses/413'
- '415':
  - Reference:** 'TS29122\_CommonData.yaml#/components/responses/415'
- '429':
  - Reference:** 'TS29122\_CommonData.yaml#/components/responses/429'
- '500':
  - Reference:** 'TS29122\_CommonData.yaml#/components/responses/500'
- '503':

**Reference:** 'TS29122\_CommonData.yaml#/components/responses/503'  
**Default:**  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/default'

## /{scsAsId}/services/{serviceId}

### get:

**Summary:** read a service resource for a given SCS/AS and a Service Id

### Tags:

- Individual Service Operation

### Parameters:

- **Name:** scsAsId  
**In:** path  
**Description:** Identifier of SCS/AS  
**Required/Optional:** true  
**Schema:**  
**Type:** string
- **Name:** serviceId  
**In:** path  
**Description:** Service Id  
**Required/Optional:** true  
**Schema:**  
**Type:** string

### Responses:

- '200':  
**Description:** OK (successful query of service resource)  
**Content:**  
**Application/JSON:**  
**Schema:**  
**Reference:** '#/components/schemas/ServiceCreation'
- '400':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/400'
- '401':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/401'
- '403':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/403'
- '404':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/404'
- '406':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/406'
- '429':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/429'
- '500':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/500'
- '503':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/503'
- Default:**  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/default'

**delete:**

**Summary:** deletes an existing service resource for a given SCS/AS and a service id

**Tags:**

- Individual service Operation

**Parameters:**

- **Name:** scsAsId  
**In:** path  
**Description:** Identifier of SCS/AS  
**Required/Optional:** true  
**Schema:**  
**Type:** string
- **Name:** serviceId  
**In:** path  
**Description:** Service Id  
**Required/Optional:** true  
**Schema:**  
**Type:** string

**Responses:**

- '204':  
**Description:** No Content, successful deletion of a service resource
- '400':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/400'
- '401':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/401'
- '403':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/403'
- '404':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/404'
- '429':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/429'
- '500':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/500'
- '503':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/503'
- Default:**  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/default'

## /{scsAsId}/services/{serviceId}/delivery-via-mbms

**get:**

**Summary:** read all group message delivery via MBMS resource for a given SCS/AS and a service id

**Tags:**

- Delivery via MBMS Operation

**Parameters:**

- **Name:** scsAsId  
**In:** path

**Description:** Identifier of SCS/AS

**Required/Optional:** true

**Schema:**

**Type:** string

- **Name:** serviceId

**In:** path

**Description:** Service Id

**Required/Optional:** true

**Schema:**

**Type:** string

**Responses:**

'200':

**Description:** OK (successful query of Delivery via MBMS resource)

**Content:**

**Application/JSON:**

**Schema:**

**Type:** array

**Items:**

**Reference:** '#/components/schemas/GMDViaMBMSByxMB'

**Min Items:** 0

'400':

**Reference:** 'TS29122\_CommonData.yaml#/components/responses/400'

'401':

**Reference:** 'TS29122\_CommonData.yaml#/components/responses/401'

'403':

**Reference:** 'TS29122\_CommonData.yaml#/components/responses/403'

'404':

**Reference:** 'TS29122\_CommonData.yaml#/components/responses/404'

'406':

**Reference:** 'TS29122\_CommonData.yaml#/components/responses/406'

'429':

**Reference:** 'TS29122\_CommonData.yaml#/components/responses/429'

'500':

**Reference:** 'TS29122\_CommonData.yaml#/components/responses/500'

'503':

**Reference:** 'TS29122\_CommonData.yaml#/components/responses/503'

**Default:**

**Reference:** 'TS29122\_CommonData.yaml#/components/responses/default'

**Method:** Post

**Summary:** Creates a new delivery via MBMS for a given SCS/AS and a service Id

**Tags:**

- Delivery via MBMS Operation

**Parameters:**

- **Name:** scsAsId

**In:** path

**Description:** Identifier of SCS/AS

**Required/Optional:** true

**Schema:**

**Type:** string

```

- Name: serviceId
  In: path
  Description: Service Id
  Required/Optional: true
  Schema:
    Type: string
Request Body:
  Description: representation of the GMD via MBMS by xMB resource to be Created in
the SCEF
  Required/Optional: true
  Content:
    Application/JSON:
      Schema:
        Reference: '#/components/schemas/GMDViaMBMSByxMB'
Callbacks:
  gMByxMBNotification:
    '{$request.body#/notificationDestination}':
      Method: Post
      Request Body: # contents of the callback message
      Required/Optional: true
      Content:
        Application/JSON:
          Schema:
            Reference: '#/components/schemas/GMByxMBNotification'

Responses:
  '200':
    Description: OK (The successful acknowledgement of the notification with
a body)
    Content:
      Application/JSON:
        Schema:
          Reference:
'TS29122_CommonData.yaml#/components/schemas/Acknowledgement'
  '204':
    Description: successful notification
  '400':
    Reference: 'TS29122_CommonData.yaml#/components/responses/400'
  '401':
    Reference: 'TS29122_CommonData.yaml#/components/responses/401'
  '403':
    Reference: 'TS29122_CommonData.yaml#/components/responses/403'
  '404':
    Reference: 'TS29122_CommonData.yaml#/components/responses/404'
  '411':
    Reference: 'TS29122_CommonData.yaml#/components/responses/411'
  '413':
    Reference: 'TS29122_CommonData.yaml#/components/responses/413'
  '415':
    Reference: 'TS29122_CommonData.yaml#/components/responses/415'
  '429':
    Reference: 'TS29122_CommonData.yaml#/components/responses/429'

```

**{/scsAsId}/services/{serviceld}/delivery-via-mbms/{transactionId}**

'500':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/500'  
 '503':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/503'  
**Default:**  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/default'

**Responses:**

'201':  
**Description:** successful creation of an GMD via MBMS by xMB resource  
**Content:**  
**Application/JSON:**  
**Schema:**  
**Reference:** '#/components/schemas/GMDViaMBMSByxMB'  
**Headers:**  
**Location:**  
**Description:** 'Contains the URI of the newly created resource'  
**Required/Optional:** true  
**Schema:**  
**Type:** string  
 '400':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/400'  
 '401':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/401'  
 '403':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/403'  
 '404':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/404'  
 '411':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/411'  
 '413':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/413'  
 '415':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/415'  
 '429':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/429'  
 '500':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/500'  
 '503':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/503'  
**Default:**  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/default'

## **{/scsAsId}/services/{serviceld}/delivery-via-mbms/{transactionId}**

**get:**

**Summary:** read all group message delivery via MBMS resource for a given SCS/AS and a service Id

**Tags:**

- Individual Delivery via MBMS resource Operation



**Parameters:**

- **Name:** scsAsId  
**In:** path  
**Description:** Identifier of SCS/AS  
**Required/Optional:** true  
**Schema:**
  - Type:** string
- **Name:** serviceId  
**In:** path  
**Description:** Service Id  
**Required/Optional:** true  
**Schema:**
  - Type:** string
- **Name:** transactionId  
**In:** path  
**Description:** Identifier of transaction  
**Required/Optional:** true  
**Schema:**
  - Type:** string

**Responses:**

- '200':
  - Description:** OK (successful query of an Delivery via MBMS resource)
  - Content:**
    - Application/JSON:**
      - Schema:**
        - Reference:** '#/components/schemas/GMDViaMBMSByxMB'
- '400':
  - Reference:** 'TS29122\_CommonData.yaml#/components/responses/400'
- '401':
  - Reference:** 'TS29122\_CommonData.yaml#/components/responses/401'
- '403':
  - Reference:** 'TS29122\_CommonData.yaml#/components/responses/403'
- '404':
  - Reference:** 'TS29122\_CommonData.yaml#/components/responses/404'
- '406':
  - Reference:** 'TS29122\_CommonData.yaml#/components/responses/406'
- '429':
  - Reference:** 'TS29122\_CommonData.yaml#/components/responses/429'
- '500':
  - Reference:** 'TS29122\_CommonData.yaml#/components/responses/500'
- '503':
  - Reference:** 'TS29122\_CommonData.yaml#/components/responses/503'
- Default:**
  - Reference:** 'TS29122\_CommonData.yaml#/components/responses/default'

**put:**

**Summary:** Updates an existing delivery via MBMS for a given SCS/AS, a service Id and transaction Id.

**Tags:**

- Individual Delivery via MBMS resource Operation

**Parameters:**

- **Name:** scsAsId  
**In:** path  
**Description:** Identifier of SCS/AS  
**Required/Optional:** true  
**Schema:**  
**Type:** string
- **Name:** serviceId  
**In:** path  
**Description:** Service Id  
**Required/Optional:** true  
**Schema:**  
**Type:** string
- **Name:** transactionId  
**In:** path  
**Description:** Identifier of transaction  
**Required/Optional:** true  
**Schema:**  
**Type:** string

**Request Body:**

**Description:** representation of the GMD via MBMS by xMB resource to be updated in the SCEF

**Required/Optional:** true

**Content:**

**Application/JSON:**

**Schema:**

**Reference:** '#/components/schemas/GMDViaMBMSByxMB'

**Responses:**

'200':

**Description:** successful update of an individual GMD via MBMS by xMB resource

**Content:**

**Application/JSON:**

**Schema:**

**Reference:** '#/components/schemas/GMDViaMBMSByxMB'

'400':

**Reference:** 'TS29122\_CommonData.yaml#/components/responses/400'

'401':

**Reference:** 'TS29122\_CommonData.yaml#/components/responses/401'

'403':

**Reference:** 'TS29122\_CommonData.yaml#/components/responses/403'

'404':

**Reference:** 'TS29122\_CommonData.yaml#/components/responses/404'

'411':

**Reference:** 'TS29122\_CommonData.yaml#/components/responses/411'

'413':

**Reference:** 'TS29122\_CommonData.yaml#/components/responses/413'

'415':

**Reference:** 'TS29122\_CommonData.yaml#/components/responses/415'

'429':

**Reference:** 'TS29122\_CommonData.yaml#/components/responses/429'

'500':

**Reference:** 'TS29122\_CommonData.yaml#/components/responses/500'  
**'503':**  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/503'  
**Default:**  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/default'

**patch:**  
**Summary:** Updates an existing delivery via MBMS for a given SCS/AS, a service Id and transaction Id.

**Tags:**  
- Individual Delivery via MBMS resource Operation

**Parameters:**

- **Name:** scsAsId  
**In:** path  
**Description:** Identifier of SCS/AS  
**Required/Optional:** true  
**Schema:**  
**Type:** string
- **Name:** serviceId  
**In:** path  
**Description:** Service Id  
**Required/Optional:** true  
**Schema:**  
**Type:** string
- **Name:** transactionId  
**In:** path  
**Description:** Identifier of transaction  
**Required/Optional:** true  
**Schema:**  
**Type:** string

**Request Body:**  
**Description:** representation of the GMD via MBMS by xMB resource to be updated in the SCEF  
**Required/Optional:** true  
**Content:**  
**application/merge-patch+json:**  
**Schema:**  
**Reference:** '#/components/schemas/GMDViaMBMSByxMBPatch'

**Responses:**

- '200':**  
**Description:** successful update of an individual GMD via MBMS by xMB resource  
**Content:**  
**Application/JSON:**  
**Schema:**  
**Reference:** '#/components/schemas/GMDViaMBMSByxMB'
- '400':**  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/400'
- '401':**  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/401'
- '403':**  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/403'

'404':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/404'  
 '411':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/411'  
 '413':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/413'  
 '415':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/415'  
 '429':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/429'  
 '500':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/500'  
 '503':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/503'  
**Default:**  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/default'

**delete:**

**Summary:** deletes a delivery via MBMS resource for a given SCS/AS, a service Id and a transaction Id.

**Tags:**

- Individual Delivery via MBMS resource Operation

**Parameters:**

- **Name:** scsAsId  
**In:** path  
**Description:** Identifier of SCS/AS  
**Required/Optional:** true  
**Schema:**  
**Type:** string  
 - **Name:** serviceId  
**In:** path  
**Description:** Service Id  
**Required/Optional:** true  
**Schema:**  
**Type:** string  
 - **Name:** transactionId  
**In:** path  
**Description:** Identifier of transaction  
**Required/Optional:** true  
**Schema:**  
**Type:** string

**Responses:**

'204':  
**Description:** No Content, successful deletion of an resource of delivery via MBMS  
 '400':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/400'  
 '401':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/401'  
 '403':  
**Reference:** 'TS29122\_CommonData.yaml#/components/responses/403'

```

'404':
  Reference: 'TS29122_CommonData.yaml#/components/responses/404'
'429':
  Reference: 'TS29122_CommonData.yaml#/components/responses/429'
'500':
  Reference: 'TS29122_CommonData.yaml#/components/responses/500'
'503':
  Reference: 'TS29122_CommonData.yaml#/components/responses/503'
Default:
  Reference: 'TS29122_CommonData.yaml#/components/responses/default'

```

## Components

```

securitySchemes:
  oAuth2ClientCredentials:
    Type: oauth2
    Flows:
      clientCredentials:
        tokenUrl: '{tokenUrl}'
        scopes: {}

schemas:
  ServiceCreation:
    Type: object
    Properties:
      self:
        Reference: 'TS29122_CommonData.yaml#/components/schemas/Link'
      supportedFeatures:
        Reference: 'TS29571_CommonData.yaml#/components/schemas/SupportedFeatures'
      externalGroupId:
        Reference: 'TS29122_CommonData.yaml#/components/schemas/ExternalGroupId'
      userServiceId:
        Type: string
        Description: Identifies the MBMS User Service supplied by the SCEF.
        readOnly: true
      serviceClass:
        Type: string
        Description: The service class that service belongs to supplied by the SCEF.
        readOnly: true
      serviceLanguages:
        Type: array
        Items:
          Type: string
        minItems: 1
        Description: List of language of the service content supplied by the SCEF.
        readOnly: true
      serviceNames:
        Type: array
        Items:

```

**Type:** string  
**minItems:** 1  
**Description:** List of Service Names supplied by the SCEF.  
**readOnly:** true  
**receiveOnlyMode:**  
**Type:** boolean  
**Description:** When set to 'true', the Content Provider indicates that the service is a Receive Only Mode service. This parameter is supplied by the SCEF.  
**readOnly:** true  
**serviceAnnouncementMode:**  
**Reference:** '#/components/schemas/ServiceAnnouncementMode'

**GMDViaMBMSByxMB:**  
**Type:** object  
**Properties:**  
**self:**  
**Reference:** 'TS29122\_CommonData.yaml#/components/schemas/Link'  
**notificationDestination:**  
**Reference:** 'TS29122\_CommonData.yaml#/components/schemas/Link'  
**requestTestNotification:**  
**Type:** boolean  
**Description:** Set to true by the SCS/AS to request the SCEF to send a test notification as defined in subclause 5.2.5.3. Set to false or omitted otherwise.  
**websockNotifConfig:**  
**Reference:** 'TS29122\_CommonData.yaml#/components/schemas/WebsockNotifConfig'  
**mbmsLocArea:**  
**Reference:** '#/components/schemas/MbmsLocArea'  
**messageDeliveryStartTime:**  
**Reference:** 'TS29122\_CommonData.yaml#/components/schemas/DateTime'  
**messageDeliveryStopTime:**  
**Reference:** 'TS29122\_CommonData.yaml#/components/schemas/DateTime'  
**groupMessagePayload:**  
**Reference:** 'TS29122\_CommonData.yaml#/components/schemas/Bytes'  
**scefMessageDeliveryIPv4:**  
**Reference:** 'TS29122\_CommonData.yaml#/components/schemas/Ipv4AddrRo'  
**scefMessageDeliveryIPv6:**  
**Reference:** 'TS29122\_CommonData.yaml#/components/schemas/Ipv6AddrRo'  
**scefMessageDeliveryPort:**  
**Reference:** 'TS29122\_CommonData.yaml#/components/schemas/PortRo'

**Required:**  
 - scsAsId  
 - notificationDestination

**GMDByxMBNotification:**  
**Type:** object  
**Properties:**  
**transaction:**  
**Reference:** 'TS29122\_CommonData.yaml#/components/schemas/Link'  
**deliveryTriggerStatus:**  
**Type:** boolean  
**Description:** Indicates whether delivery of group message payload was successful (TRUE) or not (FALSE)  
**Required:**  
 - transaction  
 - deliveryTriggerStatus

```

GMDViaMBMSByxMBPatch:
  Type: object
  Properties:
    mbmsLocArea:
      Reference: '#/components/schemas/MbmsLocArea'
    messageDeliveryStartTime:
      Reference: 'TS29122_CommonData.yaml#/components/schemas/DateTime'
    messageDeliveryStopTime:
      Reference: 'TS29122_CommonData.yaml#/components/schemas/DateTime'
    groupMessagePayload:
      Reference: 'TS29122_CommonData.yaml#/components/schemas/Bytes'
MbmsLocArea:
  Type: object
  Properties:
    cellId:
      Type: array
      Items:
        Type: string
      minItems: 1
      Description: Indicates a Cell Global Identification of the user which identifies
the cell the UE is registered.
    enodeBId:
      Type: array
      Items:
        Type: string
      minItems: 1
      Description: Indicates an eNodeB in which the UE is currently located.
    geographicArea:
      Type: array
      Items:
        Reference: 'TS29572_Nlmf_Location.yaml#/components/schemas/GeographicArea'
      minItems: 1
      Description: Identifies a geographic area of the user where the UE is located.
    mbmsServiceAreaId:
      Type: array
      Items:
        Type: string
      minItems: 1
      Description: Identifies an MBMS Service Area Identity of the user where the UE
is located.
    civicAddress:
      Type: array
      Items:
        Reference: 'TS29572_Nlmf_Location.yaml#/components/schemas/CivicAddress'
      minItems: 1
      Description: Identifies a civic address of the user where the UE is located.
ServiceAnnouncementMode:
  anyOf:
  - type: string
  enum:
  - SACH
  - CONTENT_PROVIDER
  - type: string

```

**Description:**

This string provides forward-compatibility with future extensions to the enumeration but is not used to encode content defined in the present version of this API.

**Description:**

Possible values are

- SACH: BM-SC performs the service announcement for the current service using the SACH channel.
- CONTENT\_PROVIDER: BM-SC provides the necessary service access information used by the Content Provider to create the service announcement information.

**readOnly:** true