

GroundSegment Technical DataSheet

API Documentation

September 27, 2016

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1 Package GroundSegment.models

1.1 Modules

- **Alarm** (*Section 2, p. 5*)
 - **Action**: Created on Sep 27, 2016
(*Section 3, p. 6*)
 - **Alarm**: Created on 4 de set.
(*Section 4, p. 7*)
 - **AlarmState**: Created on 4 de set.
(*Section 5, p. 9*)
 - **AlarmType**: Created on 4 de set.
(*Section 6, p. 10*)
 - **Criticity**: Created on 4 de set.
(*Section 7, p. 11*)
- **CommandType**: Created on 25 de ago.
(*Section 8, p. 12*)
- **CommandTypeParameter**: Created on 25 de ago.
(*Section 9, p. 13*)
- **Consts**: Created on Sep 27, 2016
(*Section 10, p. 14*)
- **Notification** (*Section 11, p. 15*)
 - **AlarmTypeNotificationType**: Created on Sep 27, 2016
(*Section 12, p. 16*)
 - **Contact**: Created on Sep 27, 2016
(*Section 13, p. 17*)
 - **Notification**: Created on Sep 27, 2016
(*Section 14, p. 18*)
 - **NotificationType**: Created on Sep 27, 2016
(*Section 15, p. 19*)
- **Parameter** (*Section 16, p. 20*)
- **Pasada**: Created on Sep 2, 2016
(*Section 17, p. 21*)
- **Propagation**: Created on Aug 29, 2016
(*Section 18, p. 22*)
- **PropagationDetail**: Created on Aug 29, 2016
(*Section 19, p. 23*)
- **Satellite** (*Section ??, p. ??*)
- **SatelliteState**: Created on 25 de ago.
(*Section 20, p. 24*)
- **Site**: Created on Sep 16, 2016
(*Section 21, p. 25*)
- **Sitio**: Created on Sep 5, 2016
(*Section 22, p. 26*)
- **Tle**: Created on Aug 24, 2016
(*Section 23, p. 27*)
- **TlmyVarType**: Created on 3 de set.
(*Section 24, p. 29*)
- **Transforms**: Created on Aug 29, 2016
(*Section 25, p. 30*)

2 Package GroundSegment.models.Alarm

2.1 Modules

- **Action:** Created on Sep 27, 2016
(Section 3, p. 6)
- **Alarm:** Created on 4 de set.
(Section 4, p. 7)
- **AlarmState:** Created on 4 de set.
(Section 5, p. 9)
- **AlarmType:** Created on 4 de set.
(Section 6, p. 10)
- **Criticality:** Created on 4 de set.
(Section 7, p. 11)

3 Module **GroundSegment.models.Alarm.Action**

Created on Sep 27, 2016

@author: ubuntuimate

3.1 Class **Action**

django.db.models.Model  **GroundSegment.models.Alarm.Action.Action**

4 Module GroundSegment.models.Alarm.Alarm

Created on 4 de set. de 2016

@author: Pablo Soligo

4.1 Variables

Name	Description
PENDING	Value: 0
OPEN	Value: 1
CLOSED	Value: 2
ALARM_STATUS	Value: PENDING, 'Pendiente', (OPEN, 'Abierta'), (CLOSED, 'Cerrad...

4.2 Class Alarm

django.db.models.Model  GroundSegment.models.Alarm.Alarm.Alarm

Clase/Entidad encargada de almacenar las alarmas producidas por situaciones fuera de las esperadas. Las alarmas pueden producirse por valores de telemetria por fuera de los rangos aceptados o situaciones

4.2.1 Methods

```
__init__(self, *args, **kwargs)
```

```
new(cls, satellite, alarmtype, dtArrival)
```

```
setOpen(self)
```

Este metodo verifica si es posible el cambio de estado de la alarma a abierta y en caso de ser pos
Genera una excepcion en caso de no poder cumplirse la operacion

```
setClose(self)
```

Este metodo verifica si es posible el cambio de estado de la alarma a cerrada y en caso de ser pos
Genera una excepcion en caso de no poder cumplirse la operacion

isOvercome(*self*)

Indica si la alarma no fue atendida en el tiempo dispuesto para ello

4.2.2 Class Variables

Name	Description
alarmType	Value: models.ForeignKey(AlarmType, related_name= "alarms")
state	Value: models.IntegerField()
dtArrival	Value: models.DateTimeField(default= 0)
satellite	Value: models.ForeignKey(Satellite, related_name= 'alarms')

5 Module GroundSegment.models.Alarm.AlarmState

Created on 4 de set. de 2016

@author: Pablo Soligo

5.1 Class AlarmState

django.db.models.Model  GroundSegment.models.Alarm.AlarmState.AlarmState

5.1.1 Methods

<code>__str__(self)</code>

5.1.2 Class Variables

Name	Description
code	Value: models.CharField('Codigo del estado de la alarma', max_le...
description	Value: models.CharField('Decripcion del estado de la alarma', ma...

6 Module GroundSegment.models.Alarm.AlarmType

Created on 4 de set. de 2016

@author: pabli

6.1 Class AlarmType

django.db.models.Model  GroundSegment.models.Alarm.AlarmType.AlarmType

6.1.1 Methods

<code>__str__(self)</code>

6.1.2 Class Variables

Name	Description
code	Value: models.CharField('Codigo del tipo de alarma', max_length=...
description	Value: models.CharField('Decripcion del tipo de alarma', max_len...
criticity	Value: models.ForeignKey(Criticity, related_name= 'alarmstype')
procedure	Value: models.TextField(help_text= 'Procedimiento a ejecutar por...
timeout	Value: models.IntegerField(help_text= 'tiempo maximo para tratar...

7 Module GroundSegment.models.Alarm.Criticity

Created on 4 de set. de 2016

@author: Pablo Soligo

7.1 Class Criticity

django.db.models.Model —
GroundSegment.models.Alarm.Criticity.Criticity

7.1.1 Methods

<code>__str__(self)</code>

7.1.2 Class Variables

Name	Description
code	Value: models.CharField('Codigo de criticidad', max_length= 24, ...
description	Value: models.CharField('Decripcion de la criticidad', max_lengt...
color	Value: models.CharField(max_length= 7, default= "#FF0000")
sound	Value: models.FileField("/media")

8 Module *GroundSegment.models.CommandType*

Created on 25 de ago. de 2016

@author: pabli

8.1 Class *CommandType*

django.db.models.Model —
GroundSegment.models.CommandType.CommandType

8.1.1 Methods

<code>__str__(self)</code>

8.1.2 Class Variables

Name	Description
code	Value: models.CharField('Codigo del tipo de comando', max_length...
description	Value: models.CharField('Decripcion del tipo de comando', max_le...
satellite	Value: models.ForeignKey(Satellite, related_name= 'commandsType')
satelliteStates	Value: models.ManyToManyField(SatelliteState, related_name= 'com...
active	Value: models.BooleanField(default= True)
transactional	Value: models.BooleanField(default= False)
timeout	Value: models.IntegerField('Tiempo en segundos?', default= 0, nu...
notes	Value: models.TextField('Consecuencias, restricciones del comand...

9 Module `GroundSegment.models.CommandTypeParameter`

Created on 25 de ago. de 2016

@author: pablosoligo

9.1 Class `CommandTypeParameter`

`django.db.models.Model`  `GroundSegment.models.CommandTypeParameter.CommandTypeParameter`

10 Module GroundSegment.models.Consts

Created on Sep 27, 2016

@author: ubuntumate

10.1 Class Consts



classdocs

10.1.1 Methods

__init__ (<i>self, params</i>)
Constructor
Overrides: object.__init__

Inherited from object

__delattr__(), __format__(), __getattr__(), __hash__(), __new__(),
 __reduce__(), __reduce_ex__(), __repr__(), __setattr__(), __sizeof__(),
 __str__(), __subclasshook__()

10.1.2 Properties

Name	Description
<i>Inherited from object</i> __class__	

10.1.3 Class Variables

Name	Description
smallString	Value: 64
mediumString	Value: 128
bigString	Value: 512

11 Package GroundSegment.models.Notification

11.1 Modules

- **AlarmTypeNotificationType**: Created on Sep 27, 2016
(Section 12, p. 16)
- **Contact**: Created on Sep 27, 2016
(Section 13, p. 17)
- **Notification**: Created on Sep 27, 2016
(Section 14, p. 18)
- **NotificationType**: Created on Sep 27, 2016
(Section 15, p. 19)

12 Module GroundSegment.models.Notification.AlarmTypeNotificationType

Created on Sep 27, 2016

@author: ubuntumate

12.1 Class AlarmTypeNotificationType

django.db.models.Model  GroundSegment.models.Notification.AlarmTypeNotificationType.A

13 Module GroundSegment.models.Notification.Contact

Created on Sep 27, 2016

@author: ubuntumate

13.1 Class Contact

django.db.models.Model  GroundSegment.models.Notification.Contact.Contact

Contacto/destinatario del las notificaciones. No necesariamente tiene que ser usuario de y por tanto se plantea como una entidad separada.

@see: Los atributos de esta entidad estan relacionados con los tipos de notificaciones d
@change: Los atributos de esta entidad estan relacionados con los tipos de notificacione
de notificaciones puede ser necesario enriquecer esta entidad

13.1.1 Class Variables

Name	Description
name	Value: models.CharField('Nombre del contacto', max_length= Const...
email	Value: models.EmailField('EMail del contacto', max_length= Const...

14 Module GroundSegment.models.Notification.Notification

Created on Sep 27, 2016

@author: ubuntumate

14.1 Class Notification

django.db.models.Model — **GroundSegment.models.Notification.Notification.Notification**

Notificacion efectiva enviada o por enviar. Generada a partir de la configuracion del sist

Objetivo

=====

Repositorio para las notificaciones generadas y enviadas.

Implementacion

=====

Se utiliza una unica entidad, las notificaciones se marcan como envidas cuando puede
indican la cantidad de intentos y se marcan como fallidas

14.1.1 Class Variables

Name	Description
alarm	Alarma asociada a la notificacion, puede no existir si la n distinto a la generacion de la alarma Value: models.ForeignKey(Alarm, related_name= "notifications", o...
text	Value: models.TextField(null= False, default= "Sin mensaje")

15 Module GroundSegment.models.Notification.NotificationType

Created on Sep 27, 2016

@author: ubuntumate

15.1 Class NotificationType

django.db.models.Model

GroundSegment.models.Notification.NotificationType.NotificationType

Tipo de notificacion, esta entidad tiene logica asociada e indica el canal de notificacion normalmente email, sms, filereport. Para el FS2017 en su fase academica solo implementa

@see: En fase academica FS2017 solo se plantea como tipo de notificacion el correo elect

@change: En fase academica FS2017 solo se plantea como tipo de notificacion el correo el

15.1.1 Class Variables

Name	Description
code	<p>@ivar: This is an instance variable.</p> <p>Value: models.CharField('Codigo del tipo de notificacion', max_l...</p>
description	<p>@note: Descripcion del tipo de notificacion</p> <p>Value: models.CharField('Decripcion del tipo de Notificacion', m...</p>

16 Module GroundSegment.models.Parameter

16.1 Class Parameter

django.db.models.Model —
GroundSegment.models.Parameter.Parameter

16.1.1 Methods

create(*cls*, *module*, *key*, *value*, *description*)

__str__(*self*)

getKey(*self*)

getValue(*self*)

16.1.2 Class Variables

Name	Description
module	Value: models.CharField('Modulo', max_length= 64, help_text= 'Mo...
key	Value: models.CharField('Clave', max_length= 24, help_text= 'Cla...
value	Value: models.CharField('Valor', max_length= 128, help_text= 'Va...
description	Value: models.TextField('Descripcion', help_text= 'Descripcion d...

17 Module GroundSegment.models.Pasada

Created on Sep 2, 2016

@author: ubuntumate

17.1 Class Pasada

django.db.models.Model —
GroundSegment.models.Pasada.Pasada

17.1.1 Methods

<code>__str__(self)</code>

17.1.2 Class Variables

Name	Description
name	Value: models.CharField(max_length= 128, unique= True)
satellite	Value: models.ForeignKey(Satellite, related_name= 'pasadas')
sitio	Value: models.ForeignKey(Sitio, related_name= 'pasadas')
startTime	Value: models.DateTimeField(auto_now_add= True)
stopTime	Value: models.DateTimeField(auto_now_add= True)

18 Module GroundSegment.models.Propagation

Created on Aug 29, 2016

@author: ubuntumate

18.1 Class Propagation

django.db.models.Model  GroundSegment.models.Propagation.Propagation

18.1.1 Class Variables

Name	Description
created	Value: models.DateTimeField(auto_now_add=True)
tle	Value: models.ForeignKey(Tle, related_name= 'propagations')
satellite	Value: models.ForeignKey(Satellite, related_name= 'propagations')
final	Value: models.BooleanField(default=False)

19 Module `GroundSegment.models.PropagationDetail`

Created on Aug 29, 2016

@author: ubuntumate

19.1 Class `PropagationDetail`

django.db.models.Model  `GroundSegment.models.PropagationDetail.PropagationDetail`

19.1.1 Methods

<code>save(<i>self</i>, *<i>args</i>, **<i>kwargs</i>)</code>

19.1.2 Class Variables

Name	Description
created	Value: <code>models.DateTimeField(auto_now_add=True)</code>
dt	Value: <code>models.DateTimeField()</code>
propagation	Value: <code>models.ForeignKey(Propagation, related_name= 'propagation...)</code>
positionX	Value: <code>models.FloatField()</code>
positionY	Value: <code>models.FloatField()</code>
positionZ	Value: <code>models.FloatField()</code>
velocityX	Value: <code>models.FloatField()</code>
velocityY	Value: <code>models.FloatField()</code>
velocityZ	Value: <code>models.FloatField()</code>
earthDistance	Value: <code>models.FloatField(default= 0.0)</code>

20 Module `GroundSegment.models.SatelliteState`

Created on 25 de ago. de 2016

@author: pabli

20.1 Class `SatelliteState`

`django.db.models.Model` — `GroundSegment.models.SatelliteState.SatelliteState`

20.1.1 Methods

<code>__str__(self)</code>

20.1.2 Class Variables

Name	Description
code	Value: <code>models.CharField('Codigo de estado', max_length= 24, help...</code>
description	Value: <code>models.CharField('Codigo de estado', max_length= 100, hel...</code>

21 Module GroundSegment.models.Site

Created on Sep 16, 2016

@author: ubuntumate

21.1 Class Site



21.1.1 Methods

<code>setLatitude(<i>self</i>, <i>value</i>)</code>

<code>setLongitude(<i>self</i>, <i>value</i>)</code>
--

<code>setAltitude(<i>self</i>, <i>value</i>)</code>

<code>getPass(<i>self</i>, <i>fro</i>, <i>to</i>, <i>satellite</i>)</code>
--

21.1.2 Class Variables

Name	Description
name	Value: models.CharField("Nombre del Sitio", max_length= 100, uni...
latitude	Value: models.FloatField('latitude', help_text= '[Grados Decimal...
longitude	Value: models.FloatField('Longitud', help_text= '[Grados Decimal...
altitude	Value: models.FloatField('altura', help_text= '[metros]')

22 Module GroundSegment.models.Sitio

Created on Sep 5, 2016

@author: ubuntumate

22.1 Class Sitio

django.db.models.Model —
GroundSegment.models.Sitio.Sitio

22.1.1 Methods

<code>__str__(self)</code>

22.1.2 Class Variables

Name	Description
name	Value: models.CharField("Nombre del Sitio", max_length= 24, uniq...
lat	Value: models.FloatField('Latitud', help_text= '[Dato en Grados ...
lon	Value: models.FloatField('Longitud', help_text= '[Grados Decimal...
h	Value: models.FloatField('altura', help_text= '[metros]', unique...

23 Module `GroundSegment.models.Tle`

Created on Aug 24, 2016

@author: Pablo Soligo

23.1 Class `Tle`



Clase/Entidad `TLE`.

Almacena la informacion de los `TLE` incluyendo su fecha de descarga y la epoca de `TLE`

23.1.1 Methods

`getLine1(self)`

Retorna la primera linea del `TLE` en formato texto plano

@rtype: string

@return: primera linea del `TLE` en texto plano.

`getLine2(self)`

Retorna la segunda linea del `TLE` en formato texto plano

@rtype: string

@return: segunda linea del `TLE` en texto plano.

23.1.2 Class Variables

Name	Description
<code>tleDateTime</code>	<p>Fecha generacion del <code>TLE</code>, si no fuera seteada se utilizara</p> <p>Value:</p> <p><code>models.DateTimeField(auto_now_add=True)</code></p>

continued on next page

Name	Description
downloaded	Fecha de descarga del TLE Value: <code>models.DateTimeField(auto_now_add=True)</code>
lines	Lineas del TLE Value: <code>models.TextField(max_length=124,)</code>
satellite	Satelite asociado al TLE Value: <code>models.ForeignKey(Satellite, related_name= 'tles')</code>

24 Module GroundSegment.models.TmlyVarType

Created on 3 de set. de 2016

@author: Pablo Soligo

24.1 Class TmlyVarType

django.db.models.Model  GroundSegment.models.TmlyVarType.TmlyVarType

24.1.1 Class Variables

Name	Description
code	Value: models.CharField('Codigo del tipo de variable', max_lengt...
description	Value: models.CharField('Decripcion del tipo de variable', max_l...

25 Module *GroundSegment.models.Transforms*

Created on Aug 29, 2016

@author: ubuntumate

25.1 Class *SQLiteDatetimeDate*

django.db.models.Transform — *GroundSegment.models.Transforms.SQLiteDatetimeDate*

classdocs

25.1.1 Methods

<i>as_sql(self, compiler, connection)</i>

<i>output_field(self)</i>

25.1.2 Class Variables

Name	Description
lookup_name	Value: 'date'

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