GroundSegment Technical DataSheet

API Documentation

December 5, 2016

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2   Package GroundSegment.models.Alarm

2.1   Modules

- **Action**: Created on Sep 27, 2016
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- **Alarm**: Created on 4 de set.
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- **AlarmState**: @package docstring Documentation for this module.
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- **Criticity**: Created on 4 de set.
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3 Module GroundSegment.models.Alarm.Action

Created on Sep 27, 2016

Author: ubuntumate

3.1 Class Action

django.db.models.Model

GroundSegment.models.Alarm.Action.Action

Accion realizada sobre una alarma ya sea por que fue especificado por un procedimiento o por indicacion del experto del area

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 no nominales

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 posible lo realiza. 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 posible lo realiza. Genera una excepcion en caso de no poder cumplirse la operacion

isOvercome(*self*)

Indica si la alarma no fue antendida 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(auto_now_add= True)`
satellite	**Value:** `models.ForeignKey(Satellite,` `related_name= 'alarms')`

5　Module GroundSegment.models.Alarm.AlarmState

@package docstring Documentation for this module.

More details.

5.1　Class AlarmState

django.db.models.Model ─┐

GroundSegment.models.Alarm.AlarmState.AlarmState

Clase/Entidad que describe los estados por los que puede pasar una alarma tipicamente:

- Estados
  - Pendiente
  - En Tratamiento
  - Tratada

Entidad sujeta a logica y por tanto solo administrable por personal tecnico de desarrollo

5.1.1　Methods

__str__(*self*)

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

___str___(*self*)

getAlarms(*self*)

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

```
Criticidad del evento o la alarma. Define el nivel de gravedad y atributos asociados, tipicamente
    -Gravedad
    -Color
    -Sonido
    -etc
```

7.1.1 Methods

__str__(*self*)

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.Calibration

Created on 26 de nov. de 2016

Author: pabli

8.1 Class Calibration

django.db.models.Model ———|

GroundSegment.models.Calibration.Calibration

8.1.1 Methods

___**str**___(*self*)

8.1.2 Class Variables

Name	Description
aClass	**Value:** `models.CharField('Clase donde se encuentra la funcion de ...`
aMethod	**Value:** `models.CharField('Metodo de calibracion', max_length= 128...`
subsystem	**Value:** `models.ForeignKey(SubSystem, on_delete= PROTECT, related_...`

9 Module GroundSegment.models.CommandType

Created on 25 de ago. de 2016

Author: pabli

9.1 Class CommandType

django.db.models.Model ———

         GroundSegment.models.CommandType.CommandType

9.1.1 Methods

___str___(*self*)

9.1.2 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...`

10 Module GroundSegment.models.CommandTypeParameter

Created on 25 de ago. de 2016

Author: pablosoligo

10.1 Class CommandTypeParameter

django.db.models.Model

GroundSegment.models.CommandTypeParameter.CommandTypeParameter

11 Module GroundSegment.models.Consts

Created on Sep 27, 2016

Author: ubuntumate

11.1 Class Consts

object ─┐
　　　　└ **GroundSegment.models.Consts.Consts**

classdocs

11.1.1 Methods

__init__(*self, params*)
Constructor
Overrides: object.__init__

Inherited from object

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

11.1.2 Properties

Name	Description
Inherited from object	
__class__	

11.1.3 Class Variables

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

12   Package GroundSegment.models.Notification

12.1   Modules

- **AlarmTypeNotificationType**: Created on Sep 27, 2016
  (Section 13, p. 18)
- **Contact**: Created on Sep 27, 2016
  (Section 14, p. 19)
- **MessageTemplate**: Created on Sep 27, 2016
  (Section 15, p. 20)
- **Notification**: Created on Sep 27, 2016
  (Section 16, p. 21)
- **NotificationType**: Created on Sep 27, 2016
  (Section 17, p. 23)

13 Module GroundSegment.models.Notification.AlarmTypeNotificationTyp

Created on Sep 27, 2016

Author: ubuntumate

13.1 Class AlarmTypeNotificationType

django.db.models.Model ⎯

GroundSegment.models.Notification.AlarmTypeNotificationType.A

Clase/Entidad de configuracion donde se determina si una alarma de determinado tipo es
candidata a la notificacion, que tipo de notificacion de usarse, con que plantilla y cuales son
los destinatarios de esa notificacion.

13.1.1 Methods

___str___(*self*)

13.1.2 Class Variables

Name	Description
notificationType	**Value:** `models.ForeignKey(NotificationType, on_delete= models.PRO...`
alarmType	**Value:** `models.ForeignKey(AlarmType, on_delete= models.PROTECT, r...`
messageTemplate	**Value:** `models.ForeignKey(MessageTemplate, on_delete= models.PROT...`
contacts	**Value:** `models.ManyToManyField(Contact, related_name= "alarmTypeN...`

14   Module GroundSegment.models.Notification.Contact

Created on Sep 27, 2016

Author: ubuntumate

14.1   Class Contact

django.db.models.Model ⎯┐

          GroundSegment.models.Notification.Contact.Contact

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

See Also: Los atributos de esta entidad estan relacionados con los tipos de notificaciones disponibles

Change Log: Los atributos de esta entidad estan relacionados con los tipos de notificaciones disponibles, al agregar mas tipos de notificaciones puede ser necesario enriquecer esta entidad

14.1.1   Methods

___str___(*self*)

14.1.2   Class Variables

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

15   Module GroundSegment.models.Notification.MessageTemplate

Created on Sep 27, 2016

Author: ubuntumate

15.1   Class MessageTemplate

django.db.models.Model ─┐

                    GroundSegment.models.Notification.MessageTemplate.MessageTem

```
Plantilla para la notificacion, al momento de enviar una el mensaje se toma el texto de
se realizan los remplazos por la information asociada (delimitada entre [])  y se genera

Ej:

    Se ha generado la alarma numero [pk] a hora abordo [dtOnBoard] y es del tipo [alarma
```

15.1.1   Methods

___str___(*self*)

15.1.2   Class Variables

Name	Description
name	**Value:** `models.CharField('Nombre de la plantilla', max_length= Co...`
subject	**Value:** `models.CharField('Asunto del mensaje', max_length= Consts...`
text	**Value:** `models.TextField(null= False, default= "Sin mensaje")`

16 Module GroundSegment.models.Notification.Notification

Created on Sep 27, 2016

Author: ubuntumate

16.1 Class Notification

django.db.models.Model ┐

 GroundSegment.models.Notification.Notification.Notification

```
Notifacion 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
```

16.1.1 Methods

new(*cls*, ***kwargs*)

___str___(*self*)

16.1.2 Class Variables

Name	Description
subject	**Value:** `models.CharField('Asunto de la notificacion', max_length=...`
text	Texto de la notificacion **Value:** `models.TextField(null= False, default= "Sin mensaje")`
contacts	**Value:** `models.ManyToManyField(Contact, related_name= "notificati...`

Name	Description
alarmTypeNotificationType-pe	**Value:** `models.ForeignKey(AlarmTypeNotificationType, related_name...`
sended	**Value:** `models.BooleanField(default= False)`
ntry	**Value:** `models.IntegerField(default= 0)`

17   Module GroundSegment.models.Notification.NotificationType

Created on Sep 27, 2016

Author: ubuntumate

17.1   Class NotificationType

django.db.models.Model ─────┐

         GroundSegment.models.Notification.NotificationType.NotificationT

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 email

See Also: En fase academica FS2017 solo se plantea como tipo de notificacion el correo electronico

Change Log: En fase academica FS2017 solo se plantea como tipo de notificacion el correo electronico

17.1.1   Methods

___str___(*self*)

17.1.2   Class Variables

Name	Description
description	**Value:** `models.CharField('Decripcion del tipo de Notificacion', m...`

17.1.3   Instance Variables

Name	Description
code	This is an instance variable. **Value:** `models.CharField('Codigo del tipo de notificacion', max_l...`

18 Module GroundSegment.models.Parameter

18.1 Class Parameter

django.db.models.Model ─┐

GroundSegment.models.Parameter.Parameter

18.1.1 Methods

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

___str___(*self*)

getKey(*self*)

getValue(*self*)

18.1.2 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...

19   Module GroundSegment.models.Pasada

Created on Sep 2, 2016

Author: ubuntumate

19.1   Class Pasada

django.db.models.Model ⌐

                       GroundSegment.models.Pasada.Pasada

19.1.1   Methods

___str___(*self*)

19.1.2   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)`

20 Module GroundSegment.models.Propagation

Created on Aug 29, 2016

Author: ubuntumate

20.1 Class Propagation

django.db.models.Model ─┐

GroundSegment.models.Propagation.Propagation

20.1.1 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)`

21 Module GroundSegment.models.PropagationDetail

Created on Aug 29, 2016

Author: ubuntumate

21.1 Class PropagationDetail

django.db.models.Model ——┐

                GroundSegment.models.PropagationDetail.PropagationDetail

21.1.1 Methods

save(*self*, **args*, ***kwargs*)

21.1.2 Class Variables

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

22   Module GroundSegment.models.Satellite

Created on 16 de ago. de 2016

Author: pablo soligo

22.1   Class Satellite

django.db.models.Model ─┐

               GroundSegment.models.Satellite.Satellite

Clase/Entidad Satelite.

22.1.1   Methods

---
new(*cls, code, description, noradId*)

Constructor de clase

Return Value
    Nueva instancia del satelite

    (type=Satellite)

---
getCode(*self*)

---
getLastTLE(*self*)

Verificar la fecha de ultima descarga del TLE, si puede existir un TLE nuevo
intentar descargarlo

---
getCelestialPosition(*self, dtm=*`datetime.now(utc)`)

---
newAlarm(*self, alarmType*)

___str___(*self*)

22.1.2   Class Variables

Name	Description
code	**Value:** `models.CharField('Codigo del satelite', max_length= 24, h...`

Name	Description
description	**Value:** `models.CharField('Decripcion del satelite', max_length= 1...`
noradId	**Value:** `models.IntegerField('Codigo norad del satelite', help_tex...`
active	**Value:** `models.BooleanField('Activacion/desactivacion del satelit...`
state	**Value:** `models.ForeignKey(SatelliteState, related_name= 'satellit...`
notes	**Value:** `models.TextField('Observaciones sobre el satelite', max_l...`

23 Module GroundSegment.models.SatelliteState

Created on 25 de ago. de 2016

Author: pabli

23.1 Class SatelliteState

django.db.models.Model ──┐

　　　　　　　　GroundSegment.models.SatelliteState.SatelliteState

23.1.1 Methods

___str___(*self*)

23.1.2 Class Variables

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

24 Module GroundSegment.models.Site

Created on Sep 16, 2016

Author: ubuntumate

24.1 Class Site

django.db.models.Model ─┐

GroundSegment.models.Site.Site

24.1.1 Methods

setLatitude(*self, value*)

setLongitude(*self, value*)

setAltitude(*self, value*)

getPass(*self, fro, to, satellite*)

24.1.2 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]')`

25   Module GroundSegment.models.Sitio

Created on Sep 5, 2016

Author: ubuntumate

25.1   Class Sitio

django.db.models.Model ⏤┐

GroundSegment.models.Sitio.Sitio

25.1.1   Methods

___**str**___(*self*)

25.1.2   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...`

26 Module GroundSegment.models.SubSystem

Created on 26 de nov. de 2016

Author: pabli

26.1 Class SubSystem

django.db.models.Model —

                        GroundSegment.models.SubSystem.SubSystem

26.1.1 Methods

__str__(*self*)

26.1.2 Class Variables

Name	Description
code	**Value:** `models.CharField('Codigo del subsistema', max_length= 24,...`
description	**Value:** `models.CharField('Decripcion del subsistema', max_length=...`

27 Module GroundSegment.models.Tle

Created on Aug 24, 2016

Author: Pablo Soligo

27.1 Class Tle

django.db.models.Model ──┐

GroundSegment.models.Tle.Tle

Clase/Entidad TLE. Almacena la informacion de los TLE incluyendo su fecha de descarga y la epoca de TLE

27.1.1 Methods

---

getLine1(*self*)

Retorma la primera linea del TLE en formato texto plano

Return Value
    primera linea del TLE en texto plano.

    (type=string)

---

getLine2(*self*)

Retorma la segunda linea del TLE en formato texto plano

Return Value
    segunda linea del TLE en texto plano.

    (type=string)

27.1.2 Class Variables

Name	Description
tleDateTime	Fecha generacion del TLE, si no fuera seteada se utilizara la fecha hora actual **Value:** `models.DateTimeField(auto_now_add= True)`

Name	Description

downloaded	Fecha de descarga del TLE
	 Value:
	 `models.DateTimeField(auto_now_add=`
	 `True)`

lines	Lineas del TLE **Value:** `models.TextField(max_length=` `124,)`
satellite	Satelite asociado al TLE **Value:** `models.ForeignKey(Satellite,` `related_name= 'tles')`

28 Module GroundSegment.models.TlmyVarType

Created on 3 de set. de 2016

Author: Pablo Soligo

28.1 Class TlmyVarType

django.db.models.Model ────

        GroundSegment.models.TlmyVarType.TlmyVarType

28.1.1 Methods

___str___(*self*)

---
getValue(*self*)

---
setValue(*self, raw, saveifchange*=False)

28.1.2 Class Variables

Name	Description
INTEGER	**Value:** 0
FLOAT	**Value:** 1
STRING	**Value:** 2
DIRECT	**Value:** 0
DERIVED	**Value:** 1
VARTYPE	**Value:** INTEGER, 'Integer', (FLOAT, 'Float'), (STRING, 'String'),
VARSUBTYPE	**Value:** DIRECT, 'Direct', (DERIVED, 'Derived'),
code	**Value:** models.CharField('Codigo del tipo de variable', max_lengt...
description	**Value:** models.CharField('Decripcion del tipo de variable', max_l...
satellite	**Value:** models.ForeignKey(Satellite, related_name= "tmlyVarType",...
limitMaxValue	**Value:** models.FloatField("Maximo", default= sys.float_info.max)

Name	Description
limitMinValue	**Value:** `models.FloatField("Minimo", default= sys.float_info.min)`
maxValue	**Value:** `models.FloatField("Maximo valor tolerable", default= 0)`
minValue	**Value:** `models.FloatField("Minimo valor tolerable", default= 0)`
lastRawValue	**Value:** `models.IntegerField(default= 0)`
lastCalIValue	**Value:** `models.IntegerField(default= 0)`
lastCalFValue	**Value:** `models.FloatField(default= 0.0)`
lastCalSValue	**Value:** `models.CharField('Valor como string de la variable de tel...`
lastUpdate	**Value:** `models.DateTimeField(auto_now_add= True)`
varType	**Value:** `models.IntegerField("Tipo de dato, 0=Integer, 1=Float, 2=...`
varSubType	**Value:** `models.IntegerField("Indica si es directa o derivada 0=Di...`
alarmType	**Value:** `models.ForeignKey(Alarm, related_name= "tmlyVarType", bla...`
calibrationMethod	**Value:** `models.ForeignKey(Calibration, related_name= "tlmyVarType...`
calibrationLogic	**Value:** `None`

29 Module GroundSegment.models.TmlyVar

Created on Oct 27, 2016

Author: ubuntumate

29.1 Class TmlyVar

django.db.models.Model ———┐

                                        GroundSegment.models.TmlyVar.TmlyVar

29.1.1 Methods

getValue(*self*)

setValue(*self, raw*)

29.1.2 Class Variables

Name	Description
code	**Value:** `models.CharField('Codigo del tipo de variable', max_lengt...`
rawValue	**Value:** `models.IntegerField(default= 0)`
calIValue	**Value:** `models.IntegerField(default= 0)`
calFValue	**Value:** `models.FloatField(default= 0.0)`
created	**Value:** `models.DateTimeField(auto_now_add= True)`

29.1.3 Instance Variables

Name	Description
| calSValue | ```
value = self.getValue()


if (value>self.tmlyVarType.maxValue or value<self.tmlyVarTy
    #Verificar si requiere alarma y crearla
    if self.tmlyVarType.alarmType != None:
        sat = self.tmlyVarType.satellite
        alarm = Alarm.new(sat, self.tmlyVarType, datetime.u
        alarm.save()
``` |

30   Module GroundSegment.models.Transforms

Created on Aug 29, 2016

Author: ubuntumate

30.1   Class SqlLiteDatetimeDate

django.db.models.Transform ─┐

GroundSegment.models.Transforms.SqlLiteDatetimeDate

classdocs

30.1.1   Methods

as__sql(*self*, *compiler*, *connection*)

output__field(*self*)

30.1.2   Class Variables

Name	Description
lookup__name	**Value:** 'date'

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