

Room Mapping / API Definition

Version 0.3

/Map Call (<http://stagingapi.roommapping.com/Map>)

The Map call is the basic call that implements the mapping algorithm. At a high level this will allow consumers of the API to send room types for multiple hotels and receive a response that provides grouped room types; each with a representative name and the originally presented room types with a confidence rating identifying the likelihood they have been correctly assigned.

The details of the request and response are presented below.

XML and JSON examples have been included for reference and clarification.

Request

Parameter	Data Type	Description
Properties		
Property		
PropertyName	* String	A unique identifier for each property in the request.
GIATAId	String	The GIATA code for the property, if known. If included, the PropertyName identifier may be shared between multiple properties, so long as the combination of PropertyName and GIATAId is unique for each property in the request.
RoomTypes		
Room	* String	The name of the room

* indicates mandatory

Example XML

```
<MapRequest>
  <Properties>
    <Property>
      <PropertyName>A Hotel</PropertyName>
      <RoomTypes>
        <Room>[Room Type 1]</Room>
        <Room>[Room Type 2]</Room>
        ...
        <Room>[Room Type n]</Room>
      </RoomTypes>
    </Property>
    <Property>
      <PropertyName>Another Hotel</PropertyName>
      ...
    </Property>
    ...
  </Properties>
</MapRequest>
```

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Example JSON

```
{
  "properties": [
    {
      "propertyName": "[Hotel 1 Name]",
      "giataId": "[GIATA Id 1]",
      "roomTypes": [
        "[Room Type 1]",
        "[Room Type 2]",
        ...
        "[Room Type n]"
      ]
    },
    {
      "propertyName": "[Hotel 1 Name]",
      "giataId": "[GIATA Id 2]",
      "roomTypes": [
        "[Room Type 1]",
        "[Room Type 2]",
        ...
        "[Room Type n]"
      ]
    },
    ...
    {
      "propertyName": "[Hotel n Name]",
      "giataId": "[GIATA Id n]",
      "roomTypes": [
        "[Room Type 1]",
        "[Room Type 2]",
        ...
        "[Room Type n]"
      ]
    }
  ]
}
```

Response

Parameter	DataType	Description
Properties		
Property		
PropertyName	String	
GIATAId	String	If known, the GIATAId. Not included if not presented.
Groups		
Group		
GroupName	String	A recommended name for the rooms in the group, as determined by the user profile.

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GroupID	Integer	A unique integer for each group in the property. Used to distinguish groups that have been assigned the same name.
RoomTypes		
Room	String	A list of room names that form the group. These will have been deduplicated if any identical room names have been passed into the request.

Example XML

```
<MapResponse>
  <Return Status>
    <Success>true</Success>
    <Error></Error>
  </ReturnStatus>
  <Properties>
    <Property>
      <PropertyName>A Hotel</PropertyName>
      <Groups>
        <Group>
          <GroupName>Standard Double</GroupName>
          <GroupID>2</GroupID>
          <RoomTypes>
            <Room>Standard Double</Room>
            <Room>Double</Room>
          </RoomTypes>
        </Group>
        <Group>
          <GroupName>Standard Twin</GroupName>
          <GroupID>4</GroupID>
          <RoomTypes>
            <RoomType>Standard Twin</RoomName>
            <RoomType>Standard</RoomName>
          </RoomTypes>
        </Group>
        <Group>
          <GroupName>Superior Double</GroupName>
          <GroupID>5</GroupID>
          <RoomTypes>
            <Room>Superior Double</Room>
          </RoomTypes>
        </Group>
      </Groups>
    </Property>
  </Properties>
</MapResponse>
```

Example JSON

```
{
  "properties": [
    {
      "propertyName": "12345",
      "groups": [
        {
          "groupName": "Standard Double Room",
          "groupID": 1,
          "roomTypes": [
            " Standard Double"
          ]
        }
      ]
    }
  ]
}
```

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```
    },
    {
      "groupName": "Standard Twin Room",
      "groupID": 2,
      "roomTypes": [
        "Standard Twin"
      ]
    },
    {
      "groupName": "Superior Double Room",

      "groupID": 3,
      "roomTypes": [
        "Superior Double"
      ]
    }
  ]
},
{
  "propertyName": "Another Hotel",
  "groups": [
    {
      "groupName": "Standard Double Room",
      "groupID": 1,
      "roomTypes": [
        "Standard Double"
      ]
    },
    {
      "groupName": "Standard Twin Room",
      "groupID": 2,
      "roomTypes": [
        "Standard Twin"
      ]
    },
    {
      "groupName": "Superior Double Room",
      "groupID": 3,
      "roomTypes": [
        "Superior Double"
      ]
    }
  ]
}
]
```

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/MapPlus Call (<http://stagingapi.roommapping.com/MapPlus>)

The MapPlus is functionally identical to the Map call, but returns more information in the response. At a high level this will allow consumers of the API to customise the display of their results with far more ease. The request is identical to the request for the Map call; the details of the response are presented below.

Use of the MapPlus call is restricted on a user-by-user basis.

Response

Parameter	DataType	Description
Properties		
Property		
PropertyName	String	
GIATAId	String	If known, the GIATAId. Not included if not presented.
Groups		
Group		
GroupName	String	A recommended name for the rooms in the group, as determined by the user profile.
GroupID	Integer	A unique integer for each group in the property. Used to distinguish groups that have been assigned the same name.
AverageRoom		An object representing the "average" room for the group: these are the shared attributes between all rooms in the group used to construct the group name.
Type	String	The base type of the room
Classes		
Class	String	A class assigned to the room
Views		
View	String	A view assigned to the room
Features		
Feature	String	A feature assigned to the room
RoomCount	Integer	The number of bedrooms
Accessible	Boolean	Whether the room has some accessibility options
SharedFacilities	Boolean	Whether the room has shared facilities
NonRefundable	Boolean	Whether the room is non-refundable*
Annex	Boolean	Whether the room is in an annex
RoomTypes		
Room		
RoomName	String	The supplier room name, as provided
GroupConfidence	Integer	How confident that this room has been placed in the correct group. A confidence of 50% means that the room is exactly as similar to its own group as it is to the next most similar group.

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Example XML

```
<PlusMapResponse
  <Properties>
    <Property>
      <PropertyName>Test Hotel</PropertyName>
      <Groups>
        <Group>
          <GroupName>Double Room</GroupName>
          <GroupID>1</GroupID>
          <AverageRoom>
            <Type>Room</Type>
            <Classes />
            <Views />
            <Features />
            <RoomCount>1</RoomCount>
            <Accessible>>false</Accessible>
            <SharedFacilities>>false</SharedFacilities>
            <NonRefundable>>false</NonRefundable>
            <Annex>>false</Annex>
          </AverageRoom>
          <RoomTypes>
            <Room>
              <RoomName>Double</RoomName>
              <GroupConfidence>100</GroupConfidence>
            </Room>
            <Room>
              <RoomName>Double/Twin</RoomName>
              <GroupConfidence>50</GroupConfidence>
            </Room>
            <Room>
              <RoomName>Room</RoomName>
              <GroupConfidence>50</GroupConfidence>
            </Room>
          </RoomTypes>
        </Group>
        <Group>
          <GroupName>Twin Room</GroupName>
          <GroupID>2</GroupID>
          <AverageRoom>
            <Type>Room</Type>
            <Classes />
            <Views />
            <Features />
            <RoomCount>1</RoomCount>
            <Accessible>>false</Accessible>
            <SharedFacilities>>false</SharedFacilities>
            <NonRefundable>>false</NonRefundable>
            <Annex>>false</Annex>
          </AverageRoom>
          <RoomTypes>
            <Room>
              <RoomName>Twin</RoomName>
```

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```
        <GroupConfidence>100</GroupConfidence>
      </Room>
    </RoomTypes>
  </Group>
</Groups>
</Property>
</Properties>
</PlusMapResponse>
```

Example JSON

```
{
  "properties": [
    {
      "propertyName": "12345",
      "groups": [
        {
          "groupName": "Standard Double Room",
          "groupID": 1,
          "averageRoom": {
            "type": "Room",
            "classes": [
              "Standard"
            ],
            "views": [],
            "features": [],
            "roomCount": 1,
            "accessible": false,
            "sharedFacilities": false,
            "nonRefundable": false,
            "annex": false
          },
          "roomTypes": [
            {
              "roomName": "Standard Double",
              "groupConfidence": 100
            }
          ]
        },
        {
          "groupName": "Standard Twin Room",
          "groupID": 2,
          "averageRoom": {
            "type": "Room",
            "classes": [
              "Standard"
            ],
            "views": [],
            "features": [],
            "roomCount": 1,
            "accessible": false,
            "sharedFacilities": false,
            "nonRefundable": false,

```

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```
    "annex": false
  },
  "roomTypes": [
    {
      "roomName": "Standard Twin",
      "groupConfidence": 100
    }
  ]
},
{
  "groupName": "Superior Double Room",
  "groupID": 3,
  "averageRoom": {
    "type": "Room",
    "classes": [
      "Superior"
    ],
    "views": [],
    "features": [],
    "roomCount": 1,
    "accessible": false,
    "sharedFacilities": false,
    "nonRefundable": false,
    "annex": false
  },
  "roomTypes": [
    {
      "roomName": "Superior Double",
      "groupConfidence": 100
    }
  ]
}
]
}
]
```

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/ChangePassword Call

To change an existing user's password, the following request structure is used. This request must be sent with Basic Auth using the username & old password. N.B. the password may not contain the character “.”.

Request

Parameter	DataType	Description
Password	* String	The desired new password.

Example XML

```
<PasswordChangeRequest>  
  <NewPassword>NewPassword</NewPassword>  
</PasswordChangeRequest>
```

Response

Parameter	DataType	Description
ReturnStatus		
Success	Boolean	Indicates if the request was successful
Message	String	Returns a message if the call has been unsuccessful, ie when Success=false

Example XML

```
<NewUserResponse>  
  <ReturnStatus>  
    <Success>true</Success>  
    <Error></Error>  
  </ReturnStatus>  
</NewUserResponse>
```