wsdlGetOptimalStaffing

Description

Quinyx Forecast can calculate optimal staffing figures for a unit or section by multiplying the sales forecast with rules for predefined sales volume intervals, e.g.:

- If we sell for 100 GBP during 1 hour, we need 1 employee scheduled during that time
- If we sell for 300 GBP during 1 hour, we need 2 employees

These figures can be fetched from Quinyx per unit or section using this method, so that they can be visualized in external systems.

Request

Parameter	Data type	Required	Format/example	Comment
apiKey	String	Mandatory	abcz1234567890abcz	string of various length and combination of characters
input	OptimalStaffingInput	Mandatory	*See separate table below*	

optimalStaffingInput

Parameter	Data type	Required	Format/example	Comment
fromDate	Date	Mandatory	YYYY-MM-DD	
toDate	Date	Mandatory	YYYY-MM-DD	
variableTypeId	Integer	Optional	1212	
sectionId	Integer	Optional	1234	

Response

Parameter	Data type	Required	Format/example	Comment
optimalStaffingPerHour	Array of OptimalStaffingPerHour	Mandatory	*See separate table below*	

OptimalStaffingPerHour

Parameter	Data type	Required	Format/example	Comment
fromDate	Date	Mandatory	YYYY-MM-DD	
fromTime	String	Mandatory	12:00:00	
toDate	Date	Mandatory	YYYY-MM-DD	
toTime	String	Mandatory	13:00:00	
headCount	Integer	Mandatory	1	The optimal staffing headcount
categoryId	Integer	Mandatory	1234	Shift category id
sectionId	Integer	Optional	1234	Section id
variableTypeId	Integer	Optional	1234	Focecast variable id

Example request

```
<soapenv:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:uri="uri:FlexForce">
```

```
   <soapenv:Header/>
   <soapenv:Body>
      <uri:wsdlGetOptimalStaffing soapenv:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/">
         <apiKey xsi:type="xsd:string">1111-1111-1111-1111</apiKey>
         <input xsi:type="flex:OptimalStaffingInput" xmlns:flex="http://qwfm/soap/FlexForce">
            <fromDate xsi:type="xsd:date">2017-10-01</fromDate>
            <toDate xsi:type="xsd:date">2017-10-03</toDate>
         </input>
      </uri:wsdlGetOptimalStaffing>
   </soapenv:Body>
</soapenv:Envelope>
```

Example response

```
<SOAP-ENV:Envelope SOAP-ENV:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:tns="http://qwfm/soap/FlexForce">
   <SOAP-ENV:Body>
      <ns1:wsdlGetOptimalStaffingResponse xmlns:ns1="uri:FlexForce">
         <return xsi:type="tns:OptimalStaffingOutput">
            <optimalStaffingPerHour xsi:type="SOAP-ENC:Array" SOAP-ENC:arrayType="tns:OptimalStaffingPerHour[2]">
               <item xsi:type="tns:OptimalStaffingPerHour">
                  <fromDate xsi:type="xsd:date">2017-10-02</fromDate>
                  <fromTime xsi:type="xsd:string">09:00:00</fromTime>
                  <toDate xsi:type="xsd:date">2017-10-02</toDate>
                  <toTime xsi:type="xsd:string">10:00:00</toTime>
                  <headCount xsi:type="xsd:int">1</headCount>
                  <categoryId xsi:type="xsd:int">428</categoryId>
               </item>
               <item xsi:type="tns:OptimalStaffingPerHour">
                  <fromDate xsi:type="xsd:date">2017-10-02</fromDate>
                  <fromTime xsi:type="xsd:string">10:00:00</fromTime>
                  <toDate xsi:type="xsd:date">2017-10-02</toDate>
                  <toTime xsi:type="xsd:string">11:00:00</toTime>
                  <headCount xsi:type="xsd:int">1</headCount>
                  <categoryId xsi:type="xsd:int">428</categoryId>
               </item>
            </optimalStaffingPerHour>
         </return>
      </ns1:wsdlGetOptimalStaffingResponse>
   </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

Change log

Date	Released in version	Description	Author
2017-10-27	329	Method created.	Rickard Edström

2018-04-20	337	variableTypeId added to the response	Peter Bjerkell