

Documentation

Deskline 3.0

Price Import

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DESKLINE 3.0 PRICE IMPORT

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GENERAL/INTRODUCTION

The Deskline 3.0 Price Import is a new Web Service to save prices for a product without using the Deskline 3.0 ExpertClient or the Deskline 3.0 WebClient. This documentation should help developers to connect to Deskline 3.0 and provide examples on how to send data. In summary, we changed from using text-files to XML-files based on the Open Travel Alliance format for the function *OTA_HotelRateAmountNotifRQ/RS*.

Important: Interfaces must still be activated per Deskline customer so it's not a given that the availability interfaces will be available immediately for every hotel.

Important: As of 2011 feratel customers use both systems: Deskline 2.0 and Deskline 3.0; not every customer will be switching from DL2 to DL3 immediately so both systems will stay on the market for some time longer. It is therefore important to know, that the Deskline 3.0 Price Import does not work with Deskline 2.0 (and the other way round). When requesting login data for a service provider it is therefore necessary to know the exact address of the hotel so we can send either the DL2 login data or the DL3 login data – given of course that a company supports both systems.

If you have any questions regarding the **Deskline 3.0 Price Import** please contact:

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ACTIVATION PROCESS PER SERVICE PROVIDER

In order to use the interface, it must be activated for our customer. Our direct customers are not the hotels but the tourism destinations. So it is possible that the interface will not be available everywhere or at least not immediately because it has to be set up for the customer. If the interface is already set up and active only the mapping must be entered in order to be able to use the functionality. In the first step, the mapping will be entered by feratel, so please contact servicecenter@feratel.com with the details of the service provider (name, full address and contact information) and the suggested mapping for the existing services. If no mapping is sent to us or if the services are not known, we can send a mapping along with the list of services that already exist in Deskline.

Responsible for the different services and products that are assigned to one service provider are the tourist information and the service provider directly. If – for example - services are missing that the service provider wants to use with the availability import they first have to be created, either by the service provider or by the tourist office. Once the services/products are set up the mapping can be assigned.

TECHNICAL DESCRIPTION

XML files are the base for the availability import – all mandatory and optional values for requests are passed inside XML files and also the response will be a valid XML file. The format is taken from OTA_HotelRateAmountNotifRQ/RS and implements a basic version of these functions. The chapters below will explain which elements and attributes are supported. A comprehensive OTA documentation is available on www.opentravel.org and a useful OpenTravel Model Viewer can be found here: <http://adriatic.pilotfish-net.com/ota-modelviewer/>. The web services for availabilities will work with SSL and support HttpSoap and HttpPost.

TARGET ADDRESS

We have a central web service for interfaces. Generally the web service will be available on the same URL for all customers. However as it was already the case in the past it could happen that some customers will have the hardware outside our central computer center. So it is better to be prepared and save the target address as a field that can be changed on demand.

- **Import:**
 - The target address for the live system is <http://interface.deskline.net/OTA/ImportPrices.asmx>
 - WSDL: <http://interface.deskline.net/OTA/ImportPrices.asmx?WSDL>

The target address for the test-environment will be different (*interfacetest.deskline.net*)!

AUTHENTICATION

Every software-company will receive a unique code by which they are identified. This code must be transferred inside the OTA attribute AgentDutyCode and must not be visible to the hotels.

RESTRICTIONS

- We will not import prices that are more than 800 days in the future.
- It is not possible to assign prices to the past.
- It is not possible to send prices for more than one hotel at the same time. Each request refers to exactly one HotelCode.

UPDATE INTERVAL

To optimize performance only changed prices should be sent rather than sending the whole calendar with every update. We reserve the right to limit the amount of daily updates possible in the future if we detect that more than just changed entries are sent.

TEST ENVIRONMENT

A complete test environment is available and can be set up on demand.

MAPPING VALUES

To find the way from one room in the hotel software to a product in Deskline 3.0 we need certain mapping values, namely the hotel code and a mapping code per product. In Deskline 2.0 we relied on the internal mapping values which sometimes lead to problems. In Deskline 3.0 we add a new layer and rely on mutually agreed mapping values. These values can't be entered by the hotels themselves just yet so in the beginning this will be done by feratel.

The following rules apply to mapping values:

- Mapping values are needed for the hotel and for every product that should be imported.
- Mapping values must not exceed 16 characters (OTA restriction).
- Mapping values must not contain special characters, only A-Z and 0-9.
- A mapping value for a hotel can be assigned more than one time per company. So the same company can use "HTLSUN" as mapping value for two different objects. It is not recommended and every hotel should have a unique code but this is sometimes necessary for software companies if one service provider manages multiple objects.
- Mapping values per product must be unique for every Company + HotelCode combination. There can't be two products with the code "PR" inside one hotel code.

Mapping suggestion:

- Using a combination of the company abbreviation and the hotel abbreviation. Examples below.

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A few examples:

- A new value can be used, perhaps something that shortens the name but is distinctive enough to be the mapping for this hotel:

Hotel Sunshine	Hotel Software	Mapping	Deskline 3.0
Hotel Code	23742093	COSUN	AAAEDD2B-833C-4A7D-B1AB-C0386A437FAC
Single Room Code (Service)	23789423	COSUNSR	F79A02D3-8395-4456-BBF2-8B91D58C3AD6
Single Room Code (Product)	23467439	COSUNDRP	F4A3D76E-68E9-4B27-B7D8-249398A6EE8F
Double Room Code (Service)	23789423	COSUNSR	F79A02D3-8395-4456-BBF2-8B91D58C3AD6
Double Room Code (Product)	23467438	COSUNDRP	96E56EAE-51DA-4AA6-82D3-541D1F105E5D

Here an abbreviation is used (CO for company, SUN for Sunshine, SR for single room, DR for double room)

- Existing values of the external software can be used as long as they do not exceed 16 characters (OTA restriction). A hotel code must be assigned either way even if the hotel software has no hotel code on its own.

Hotel Sunshine	Hotel Software	Mapping	Deskline 3.0
Hotel Code		SUNSHINE	AAAEDD2B-833C-4A7D-B1AB-C0386A437FAC
Single Room Code (Service)	14	14	F79A02D3-8395-4456-BBF2-8B91D58C3AD6
Single Room Code (Product)	14	14P	F4A3D76E-68E9-4B27-B7D8-249398A6EE8F
Double Room Code (Service)	15	15	F79A02D3-8395-4456-BBF2-8B91D58C3AD6
Double Room Code (Product)	15	15P	96E56EAE-51DA-4AA6-82D3-541D1F105E5D

- A combination of characters and numbers is possible as the mapping code is a string:

Hotel Sunshine	Hotel Software	Mapping	Deskline 3.0
Hotel Code	23742093	SUN9020	AAAEDD2B-833C-4A7D-B1AB-C0386A437FAC
Single Room Code (Service)	23742093	SUN14	F79A02D3-8395-4456-BBF2-8B91D58C3AD6
Single Room Code (Product)	23742094	SUN14P	96E56EAE-51DA-4AA6-82D3-541D1F105E5D

Important: If no mapping is present and active for a hotel and the service for a company, the interfaces will not be accessible.

STRUCTURE OF A SERVICE PROVIDER WITH SERVICES AND PRODUCTS

A short overview how data regarding a service provider is entered and connected in Deskline 3.0: first, we have the service provider which is for example a hotel:

General		Address	
Name	the Schwartz-Inn	Pasterk Thomas Pasterk Hintertupfing 2 12345 Obertupfing	
Object code	TP0815 <input checked="" type="checkbox"/> Active	thomas.pasterk@feratel.com http://	
Owner	Feratel Demo Destination		
Rooms	44 Beds 235		
SHUTTLE/09.06.2010 14:57/16.04.2009			

A service provider will have one or more categories, classifications, marketing groups, facilities and so on. Also, there are descriptions, documents, links, etc. - all information regarding the object itself, not about services or products.

Then there can be services for this object:

Name	Type	Town	Object code
<input checked="" type="checkbox"/> the Schwartz-Inn	Accommodation	Innsbruck	TP0815
Triple room, shower or bath, toilet, no...	Accommodation		TRXTNOSMO
Single room, bath, toilet, superior	Accommodation		SRBTSUPER
Apartment, shower and bath, toilet, gro...	Accommodation		APYTGRFL

A service can be seen as a summary of physical rooms with the same properties:

Service					
Service code	TRXTNOSMO <input checked="" type="checkbox"/> Active	Rooms	1,0		
Name	Triple room, shower or bath, toilet, no smoker		Bedrooms	1	
Coding	Triple room	shower or bath, toilet	no smoker	Size (m ²)	35
Classification	4-5 stars DTV	Most recent avail. change	28.05.2010 11:16		
Order	1	Last change	SHUTTLE/17.05.2010 15:35/16.04.2009		

This room can also have descriptions, documents, facilities – and availabilities. For example there can be 10 available rooms of this category on a given day and only 8 on another day or 0 on another day if all rooms of this type are occupied.

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Based on one service there can be one or several products. Products are the units that can be booked by a customer. So it is possible to sell a service either as a regular room (triple room with shower or bath in this case) or as a special package or anything else the service provider can create. Restrictions about arrival/departure, min/max length of stay, min/max adults, min/max children and so on - including the prices - are all defined on the product level:

Products	
General Settings	
General	
Product name	Triple room, shower or bath, toilet, no smoker
Product type	Accommodation Topic
Accommodation type	Room
Order	9 <input checked="" type="checkbox"/> Active

Occupancy			
	Min.	Max.	
Beds	1	8	Std.
Adults	1	7	2
Children	0	5	
Min. full-rate children		1	

Or:

General	
Product name	Weekend package for two
Product type	Package
Accommodation type	Room
Order	3 <input checked="" type="checkbox"/> Active

Occupancy			
	Min.	Max.	
Beds	2	2	Std.
Adults	2	2	2
Children	0	0	
Min. full-rate children		0	

As soon as the service provider changes the availabilities for the service to 5, there are 5 units of the product "Triple room" or 5 units of the product "Weekend package for two" available. As soon as for example one weekend package is booked, the availability will be reduced and there are only 4 units of either product available. This way, a service provider can sell a room in multiple choices for the guest.

This information is important for the price interface: Prices are always imported for each **product**, so we need a mapping on this level and it must be different from the service mapping. If the service provider created more than one product for a service there will be two product codes necessary. If this does not work with the hotel software than the service provider should create the Deskline services and products in a 1:1 relation, rather than using 1:n.

LANDLORDS WITH MORE THAN ONE OBJECT

It is sometimes possible that one landlord manages multiple properties in Deskline 3.0, for example Hotel Sunshine **and** Hotel Lakeside with different inventory. In this case we still need the mapping values to be distinct for every object, only the hotel code can be shared.

We still need a hotel code for Hotel Sunshine (e.g. **SUNSHINE**) and one for Hotel Lakeside (e.g. **LAKESIDE**) but if it is actually the **same landlord**, then both hotels are allowed to share a HotelCode.

If the hotel software does not actually support multiple properties then we suggest saving two mapping values per room: the hotel code and the room code. This is just a suggestion and has to be considered if you want to support sending availabilities to Deskline 3.0 for more than one service provider.

INFORMATION ABOUT SALES CHANNELS (RATEPLANCODE)

Usually, all products share the same prices whether they are booked online or offline or on different sales channels. However, a tourism destination can create any number of additional sales channels they need for their use. In most cases the prices are then shared throughout the sales channels but for some marketing activities they can have their own prices for certain products. This would look like this in Deskline 3.0:

Most cases:

Sales channels					
Active	Name	Own availability	Own price	Own arrival/dep.	
<input checked="" type="checkbox"/>	Standard	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	Internet	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Settings for a fictional channel "Bike Week" with own availabilities for a product:

Sales channels					
Active	Name	Own availability	Own price	Own arrival/dep.	
<input checked="" type="checkbox"/>	Standard	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	Internet	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	Bike Week	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

This means, that - for example – for the 31st of January 2011 there can be two different prices for one product: one price that is used for the Standard/Internet sales channel and one price that is used for the "Bike Week". The tourism destination decides on the usage of these sales channels, there can be links on the homepage or they can be used solely for the back office (Deskline 3.0 ExpertClient).

PRICE IMPORT REQUEST FIELDS

The OTA implementation looks like this:

Request field	Description	Can be empty?	More than one possible?
POS → Source → AgentDutyCode	A unique code assigned from feratel to the external software-company sending availabilities. This is used to identify the sending company and will be unique per company. Must not be visible or known to the hotels!	<input type="checkbox"/>	<input type="checkbox"/>
RateAmountMessages	The element RateAmountMessages must only be present once. This means that it is only possible to send one request for one hotel at the time, not several hotels.	<input type="checkbox"/>	<input type="checkbox"/>
HotelCode	The attribute HotelCode contains the mapping value of the service provider.	<input type="checkbox"/>	<input type="checkbox"/>
RateAmountMessage	Container Element for the different prices to import.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
StatusApplicationControl	Period that the price is going to be changed for. Important: Periods that are not part of the request will not be changed and keep their existing data.	<input type="checkbox"/>	<input type="checkbox"/>
Start	Date beginning with the first day to assign prices to.	<input type="checkbox"/>	<input type="checkbox"/>
End	The end date is included when assigning prices to dates. So sending from "2010-04-05" to "2010-04-10" will save availabilities for the following dates: 2010-04-05, 2010-04-06, 2010-04-07, 2010-04-08, 2010-04-09 and 2010-04-10. This is a different workflow than handled by the availability import!	<input type="checkbox"/>	<input type="checkbox"/>
InvCode	The attribute InvCode contains the mapping value of the product.	<input type="checkbox"/>	<input type="checkbox"/>
RatePlanCode	Use this attribute only when the service provider has different prices for different sales channels defined by the tourism organisation. Otherwise, this attribute must not be send. The value for the RatePlanCode can be provided by the tourism organisation and is the name of the sales channel. With the RatePlanCode it is possible to assign a price for a double room for all guests to 50 EUR but for a special sales channel (for example marketing related) to 45 EUR for the same day.	<input type="checkbox"/>	<input type="checkbox"/>
Rates	Container element for the prices.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Rate	Information about the price and minimum and maximum length of stay.	<input type="checkbox"/>	<input type="checkbox"/>
MinLOS	Minimum length of stay for this period. Optional, do not send if it is not necessary. Value must not be empty and has to be greater zero.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
MaxLOS	Maximum length of stay for this period. Optional, do not send if it is not necessary. Value must not be empty and has to be greater zero.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BaseByGuestAmts	Container element for the price amounts.	<input type="checkbox"/>	<input type="checkbox"/>
BaseByGuestAmt	For each occupancy level (1 person, 2 people, 3 people, ..) there can be a different price.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
AmountAfterTax	Price value to be saved.	<input type="checkbox"/>	<input type="checkbox"/>
NumberOfGuests	Number of guests for this price. Within one message, there can't be two entries for the same NumberOfGuests. NumberOfGuest has to be unique inside each RateAmountMessage.	<input type="checkbox"/>	<input type="checkbox"/>

PRICE IMPORT REQUEST EXAMPLE

One hotel, two products:

```

<?xml version="1.0" encoding="UTF-8"?>
<OTA_HotelRateAmountNotifRQ
xmlns="http://www.opentravel.org/OTA/2003/05" TimeStamp="2009-08-
26T21:28:06" Target="Production" Version="1">
  <POS>
    <Source AgentDutyCode="FERATEL" />
  </POS>
  <RateAmountMessages HotelCode="HOTCO">
    <RateAmountMessage >
      <StatusApplicationControl Start="2010-12-01"
End="2010-12-31" InvCode="FEHOPROD" RatePlanCode="" />
      <Rates>
        <Rate MinLOS="2" MaxLOS="14" >
          <BaseByGuestAmts>
            <BaseByGuestAmt
              AmountAfterTax="37.0"
              NumberOfGuests="1" />
            <BaseByGuestAmt
              AmountAfterTax="25.0"
              NumberOfGuests="2" />
          </BaseByGuestAmts>
        </Rate>
      </Rates>
    </RateAmountMessage>
    <RateAmountMessage >
      <StatusApplicationControl Start="2011-01-01"
End="2011-01-15" InvCode="FEHOPROD" RatePlanCode="" />
      <Rates>
        <Rate MinLOS="3" MaxLOS="14" >
          <BaseByGuestAmts>
            <BaseByGuestAmt
              AmountAfterTax="32.0"
              NumberOfGuests="1" />
            <BaseByGuestAmt
              AmountAfterTax="20.0"
              NumberOfGuests="2" />
          </BaseByGuestAmts>
        </Rate>
      </Rates>
    </RateAmountMessage>
  </RateAmountMessages>
</OTA_HotelRateAmountNotifRQ>

```

PRICE IMPORT RESPONSE EXAMPLE

Import successful:

```
<?xml version="1.0"?>
<OTA_HotelRateAmountNotifRS
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" Version="0"
xmlns="http://www.opentravel.org/OTA/2003/05">
  <Success />
</OTA_HotelRateAmountNotifRS>
```

If the XML is not valid and can't be processed:

```
<?xml version="1.0"?>
<OTA_HotelRateAmountNotifRS
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" Version="0"
xmlns="http://www.opentravel.org/OTA/2003/05">
  <Warnings>
    <Warning Language="en" Type="10" Code="425">No match found
HotelCode HOTCO and InvCode PRIC.</Warning>
  </Warnings>
</OTA_HotelRateAmountNotifRS>
```

Other problems that do not immediately stop the interface from processing the request will result in warnings (<Errors> will become <Warnings>) according to the OTA Error Type List:

Error Code	Reason
104	Accommodation does not use availability. Setting in the Deskline 3.0 data if availabilities can be stored for a room or not.
135	End date is invalid (already passed or too far in the future)
136	Start date is invalid (already passed or too far in the future)
183	Agency suspended – access denied (interface deactivated or not allowed for the customer)
321	POS element is missing
321	AgentDutyCode is missing
321	Hotel Code is missing
321	Start/End Date missing in StatusApplicationControl
321	InvCode missing
375	Hotel not active (Deskline 3.0 setting if a hotel is active or not)
425	No match found for the mapping or the mapping is inactive (mapping can be entered and activated/deactivated)
497	Authorization error (company code not valid)

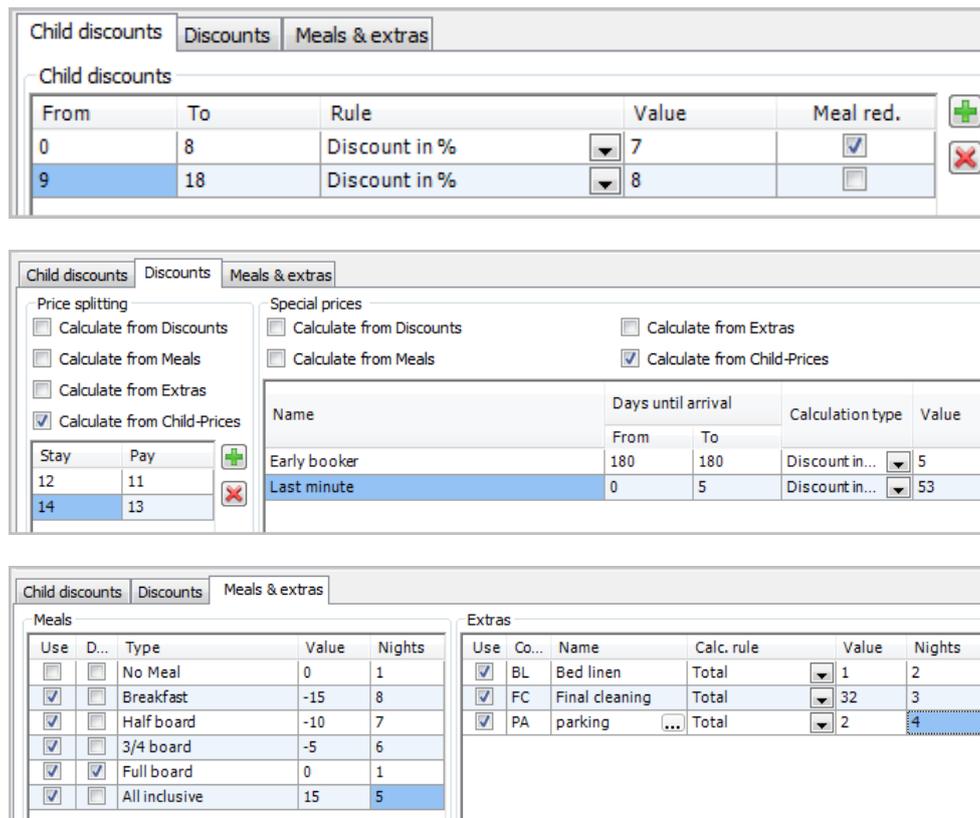
Sending prices more than 800 days in the future will result in a warning and only availabilities within the first 800 days will be imported.

SERVICE PROVIDER PRESETTING

The information that can be imported by using the interface is reduced to a small set of fields that make up the Deskline 3.0 price calculation. Our system has a lot more settings, like different meal codes, discounts, surcharges, child-reductions and so on.

These settings are still be used when working with the Deskline 3.0 Price Import. Usually they can be different for every product and every price template, but when working with the Deskline 3.0 Price Import we use the Service Provider Presetting to fill the price templates. When a new price template is created we import the dates and values from the XML and use the rest of the settings from the Presetting.

Example for Service Provider Presetting:



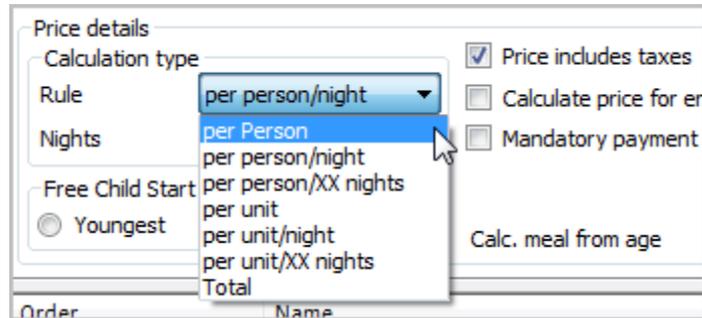
The screenshot displays three panels from the Service Provider Presetting interface:

- Child discounts:** A table with columns 'From', 'To', 'Rule', 'Value', and 'Meal red.'. It contains two rows: one for 'Discount in %' from 0 to 8 with a value of 7, and another for 'Discount in %' from 9 to 18 with a value of 8.
- Special prices:** A section with checkboxes for 'Calculate from Discounts', 'Calculate from Meals', 'Calculate from Extras', and 'Calculate from Child-Prices'. Below this is a table with columns 'Name', 'Days until arrival' (From, To), 'Calculation type', and 'Value'. It lists 'Early booker' (180 to 180 days, 5) and 'Last minute' (0 to 5 days, 53).
- Meals & Extras:** Two tables. The 'Meals' table has columns 'Use', 'D..', 'Type', 'Value', and 'Nights', listing options like 'No Meal', 'Breakfast', 'Half board', '3/4 board', 'Full board', and 'All inclusive'. The 'Extras' table has columns 'Use', 'Co..', 'Name', 'Calc. rule', 'Value', and 'Nights', listing 'Bed linen', 'Final cleaning', and 'parking'.

If these settings are present for a service provider then they will be automatically assigned to each new price template created by the price import function. It is not possible to deactivate this behavior (only by not using the price import) so the service provider has to be aware of this workflow before using the price import.

PRODUCT SETTINGS

Every product is set up with the option about the price calculation rule and visitor's tax:



We only take the price value from the XML file and fill the price template with it. The definition of the product, if the price is to be calculated per person or per unit or if the taxes are included has to be made by the service provider when the product is created. It is possible that the service provider does not have these access rights so the hotel would have to talk to the destination using our system directly. We do not change these settings or manipulate the price value at all.

This is important to know when sending prices!

For every product there is also a setting for the occupancy that must be entered when the service provider creates a product:

Occupancy			
	Min.	Max.	
Beds	2	3	Std.
Adults	1	3	2
Children	0	2	
Min. full-rate children		1	

Therefore it is important to know the limits when sending prices. The example above would not allow a price for NumberOfGuests=4 to be imported since the maximum number of adults is 3.

CHANGE LOG

This document will be changed during the further development process and these changes will be documented here.

Version	Description of changes done
1.0.0	<ul style="list-style-type: none"> • First version
1.0.1 (2010-12-14)	<ul style="list-style-type: none"> • Bugfix: Problem with template names was fixed • Bugfix: Up to now the service provider default settings for arrival/departure weekdays were ignored. They are now used when importing data.
1.0.2 (2011-02-22)	<ul style="list-style-type: none"> • Hotfix included fixing a bug when it comes to service provider presets and reduction/surcharges (internal fix, no need for companies to react). • Hotfix included fixing a bug with the generation of price template names (internal fix, no need for companies to react). • Altered the chapter "Product settings" because not all service providers have the right to change this setting (price per unit vs. price per person) so this still has to be checked with the service provider in any case! • Inserted additional information concerning minimum and maximum length of stay • Corrected documentation concerning elements BaseByGuestAmts and BaseByGuestAmt • Change contact information
1.0.3 (2011-04-12)	<ul style="list-style-type: none"> • Hotfix included fixing a bug when only MinLOS and MaxLOS is send without price information (internal fix, no need for companies to react).
1.0.4 (2014-03-04)	<ul style="list-style-type: none"> • Loosened restriction to send data only 550 days in future to 800 days. • Skipped chapter about differences between Deskline 2 and Deskline 3.0 interfaces because no longer relevant to partners.
1.0.5 (2017-02-27)	<ul style="list-style-type: none"> • Bug fixed for calculating correct Surcharge and Discount from Standard Template
1.0.6 (2017-10-02)	<ul style="list-style-type: none"> • Improvement for saving 0 Prices