



Channel Full Integration
v.3.0
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Document revisions

revision	change
20171026	Add studio property type
20171017	Add links to ISO Wikipedia pages
20171011	New node in property feed with key collection details
20170418	Correct list of amenities, extra fee types and payment types
20170320	Initial revision of v.3.0 documentation

Latest revision

You can always find the latest revision of this document at:

<http://info.only-apartments.com/doc/OA-Channel-Full-Integration-v.3.0.pdf>

Introduction

This document describes the integration process and technical details required by Only apartments to allow any Channel to publish properties on Only-apartments platform using a **FULL integration**.

A FULL integration can be divided in 3 steps:

1. XML feeds integration

The Channel must generate two XML feeds with static information, and availability + rates of all the properties.

These files must be generated periodically by the Channel (at least once a day), and Only-apartments will process them in order to update the database with latest information.

The XML feed file names and format must follow Only-apartments specification.

2. Final Price integration

Optionally, the Channel can provide a REST service to verify in real time the availability and get the final price of a property. Only-apartments will use it whenever is needed to make sure the property is still available.

If the Channel doesn't provide this service, Only-apartments will use the latest information read from the XML Feed files.

The implementation of this service must follow Only-apartments specification.

3. Booking integration

Optionally, the Channel can provide another REST service to receive bookings automatically. Only-apartments will use this service to notify all booking confirmations and cancellations to the Channel.

The implementation of this service must follow Only-apartments specification

Push integrations

In case you don't want to do a Full Integration using XML Feeds, you can use our Push API to only integrate the availability and rates of your properties (see <http://info.only-apartments.com/doc/OA-Channel-Push-API-v.3.0.pdf>)

Technical Overview

XML Feeds

There are two XML Feed files you must generate at least once a day: `properties.xml` and `calendars.xml`.

The **`properties.xml`** file must include only the properties you want to share with Only-apartments. All previously shared properties that are not present in the XML feed will be removed automatically.

The **`calendars.xml`** file must provide a calendar for each property defined in the properties file. If a property does not have a valid calendar, or all the days in the calendar are blocked, the property will be automatically unpublished in Only-apartments.

In the following chapters you'll find the complete specification of each file.

You must give Only-apartments an HTTPS url or FTP account where these files will be located.

Remember that the frequency of the calendar updates will affect the ranking of your properties, so please keep it regularly updated.

Services

You can implement an HTTPS endpoint where Only-apartments will send requests asking for the availability and final price of your properties for particular check in and check out dates (see Final Price service).

You can also implement another HTTPS endpoint where Only-apartments will send booking confirmations and cancellations. (see Booking service)

Only-apartments will send POST requests to your endpoint URLs using JSON to serialize the message sent.

In the following chapters you'll find the complete specification of these services

XML Feeds

1. properties.xml

This file provides the static information (location, texts, images, features, ...) of all properties.

The XML structure is:

```
<properties>
  <property>
    <id>(string)</id>
    <type>(string)</type>
    <agency>(string)</agency>
    <license><![CDATA[...]]></license>
    <persons>(int)</persons>
    <bedrooms>(int)</bedrooms>
    <bathrooms>(int)</bathrooms>
    <square_meters>(int)</square_meters>
    <floor>(string)</floor>
    <units>(int)</units>
    <texts>
      <text lang="(string)">
        <title><![CDATA[...]]></title>
        <description><![CDATA[...]]></description>
        <area_description><![CDATA[...]]></area_description>
      </text>
      ...
    </texts>
    <pictures>
      <picture>
        <url>(string)</url>
        <title><![CDATA[...]]></title>
      </picture>
      ...
    </pictures>
    <location>
      <country>(string)</country>
      <city><![CDATA[...]]></city>
      <district><![CDATA[...]]></district>
      <address><![CDATA[...]]></address>
      <latitude>(decimal)</latitude>
      <longitude>(decimal)</longitude>
    </location>
    <beds>
      <double_beds>(int)</double_beds>
      <single_beds>(int)</single_beds>
      <double_sofa_beds>(int)</double_sofa_beds>
      <single_sofa_beds>(int)</single_sofa_beds>
      <bunk_beds>(int)</bunk_beds>
      <baby_cots>(int)</baby_cots>
      <extra_beds>(int)</extra_beds>
    </beds>
    <amenities>
      <amenity>(string)</amenity>
      ...
    </amenities>
    <restrictions>
      <restriction>(string)</restriction>
  </property>
</properties>
```

```

...
</restrictions>
<pricing>
  <currency>(string)</currency>
  <price type="(string)">(decimal)</price>
  ...
  <extra_fee type="(string)">
    <price>(decimal)</price>
    <payment>(string)</payment>
    <mandatory>(string)</mandatory>
    <included_in_price type="(string)">(string)</included_in_price>
    <season>
      <start_date>(string)</start_date>
      <end_date>(string)</end_date>
    </season>
  </extra_fee>
  ...
  <extra_adult_increase>
    <from_number_people>(int)</from_number_people>
    <price_per_extra_adult>(decimal)</price_per_extra_adult>
  </extra_adult_increase>
  ...
  <extra_child_increase>
    <price_per_extra_child>(decimal)</price_per_extra_child>
  </extra_child_increase>
  <long_stay_discount>
    <percent>(int)</percent>
    <amount calculation="(string)">(decimal)</amount>
    <from_number_nights>(int)</from_number_nights>
    <to_number_nights>(int)</to_number_nights>
  </long_stay_discount>
  ...
  <early_bird_discount>
    <percent>(int)</percent>
    <amount calculation="(string)">(decimal)</amount>
    <days_before_checkin>(int)</days_before_checkin>
    <latest_date_before_checkin>(string)</latest_date_before_checkin>
    <from_number_nights>(int)</from_number_nights>
  </early_bird_discount>
  ...
  <last_minute_discount>
    <percent>(int)</percent>
    <amount calculation="(string)">(decimal)</amount>
    <days_before_checkin>(int)</days_before_checkin>
  </last_minute_discount>
  ...
  <work_week_discount>
    <percent>(int)</percent>
  </work_week_discount>
  ...
  <short_stay_supplement>
    <percent>(int)</percent>
    <amount calculation="(string)">(decimal)</amount>
    <from_number_nights>(int)</from_number_nights>
    <to_number_nights>(int)</to_number_nights>
  </short_stay_supplement>
  ...

```

```
<simple_price_modifier>
  <percent>(int)</percent>
  <amount calculation="(string)">(decimal)</amount>
</simple_price_modifier>
...
</pricing>
<key_collection_details>
  <office_address>(string)</office_address>
  <opening_hours>(string)</opening_hours>
</key_collection_details>
<rules>
  <stay>
    <minimum_nights>(int)</minimum_nights>
  </stay>
  <check_in>
    <days>(string)</days>
    <from>(string)</from>
    <to>(string)</to>
  </check_in>
  <check_out>
    <days>(string)</days>
    <from>(string)</from>
    <to>(string)</to>
  </check_out>
  <deposit>(decimal)</deposit>
</rules>
</property>
...
</properties>
```

IMPORTANT: All fields marked with * are compulsory fields. If no data is provided for any of these fields the property might not be published in Only-apartment.

<property>

name	type / format	description
id *	string	Identifier of the property (must be the same as in the calendar feed and unique for each property)
type *	string	Property type name: apartment, house, ... (see Appendix A)
agency *	string	The agency or property manager name or identifier (used to find different agencies in a channel manager integration)
license	string	The touristic license code
persons *	integer	Maximum number of people accepted in the property
bedrooms *	integer	Number of bedrooms of the property
bathrooms	integer	Number of bathrooms of the property
square_meters	integer	Square meters of the property
floor	string	Floor number or abbreviated floor name
units	integer	Number of available units (if the property represents multiple identical units)
texts *		Texts of the property in multiple languages
pictures *		Pictures of the property. First picture is the main one.
location *		Location of the property
beds		Number of beds of the property by bed types
amenities		List of amenities found at the property
restrictions		Restrictions of the property
pricing *		Default pricing setup of the property
key_collection_details *		Details of the key collection
rules *		House rules of the property (check in/out times, minimum stay, ...)

<text>

name	type / format	description
@lang *	string	Two letters ISO code of the text language (Alpha 2 ISO 639-1)
title *	string	Title of the property
description *	string	Description of the property
area_description	string	Description of the city or area where the property is located

<picture>

name	type / format	description
url *	string	URL of the image file
title	string	Short description of the image

<location>

name	type / format	description
country *	string	Two letters ISO code of the location country (Alpha 2 ISO 3166-1)
city *	string	Name of the city
district	string	Name of the district / neighborhood
address	string	Full address of the property (not including city, postcode country or neighborhood)
latitude *	decimal	Latitude component of the property coordinates
longitude *	decimal	Longitude component of the property coordinates

<beds>

name	type / format	description
double_beds	integer	Number of double beds
single_beds	integer	Number of single beds
double_sofa_beds	integer	Number of double sofa beds
single_sofa_beds	integer	Number of single sofa beds
bunk_beds	integer	Number of bunk beds
baby_cots	integer	Number of baby cots (If a baby cot is available but with extra fee, you have to leave this field empty and include the baby cot as an extra_fee)
extra_beds	integer	Number of extra beds available (If an extra bed is available but with extra fee, you have to leave this field empty and include the extra bed as an extra_fee)

<amenities>

name	type / format	description
amenity	string	Name of the amenity: jacuzzi, freezer, internet, ... (see Appendix B)

<restrictions>

name	type / format	description
restriction	string	Restriction of the property such as "no smokers", "no pets", ... (see Appendix C)

<pricing>

name	type / format	description
currency *	string	Three letters ISO code of the currency used on all prices (ISO 4217)
price *	decimal	Prices of the property for different periods
price@type *	string	Period when this price applies to (one of: night, week or month)
extra_fee		Extra fees to be applied on top of the price
extra_adult_increase		Apply an additional price per extra adult
extra_child_increase		Apply an additional price per extra child (only one extra_child_increase node can be defined)
long_stay_discount		Apply a discount if stay is longer than a minimum
early_bird_discount		Apply a discount if the property is booked well in advance
last_minute_discount		Apply a discount if the property is booked just before arrival
work_week_discount		Apply a discount if the property is booked for a full work week (check in on monday, check out on saturday)
short_stay_supplement		Apply a supplement if stay is shorter than a minimum
simple_price_modifier		Apply a fixed supplement or discount

<extra_fee>

name	type / format	description
@type *	string	Type of the extra fee that is not included in the standard price of the property. (see Appendix D)
price	decimal	Price of the extra fee
payment	string	Payment type: <code>payed_once</code> , <code>per_person</code> , ... (see Appendix E)
mandatory	true false	true if the extra fee is mandatory
included_in_price	true false	true if the extra fee is already included in the standard price (it must not be added on top of it).
included_in_price@type	string	Type of the payment when it is not included in the standard price. One of: "pay_on_site" or "pay_on_booking" (by default, "pay_on_site") (see Appendix G)
from	HH:mm	Time from extra fee apply
to	HH:mm	Time to extra fee apply

<season>

name	type / format	description
start_date *	yyyy-MM-dd	Start date of the season when the extra fee must be applied
end_date *	yyyy-MM-dd	End date of the season when the extra fee must be applied

<extra_adult_increase>

name	type / format	description
price_per_extra_adult *	decimal	Price to add for each extra adult
from_number_people *	int	Apply extra adult increase for each adult after this number of people

<extra_child_increase>

name	type / format	description
price_per_extra_child *	decimal	Price to add for each extra child

<long_stay_discount>

name	type / format	description
percent	int	Percent of discount to apply
amount	decimal	Amount of discount to apply
amount@calculation	string	How the amount of discount must be applied. One of: "per_stay", "per_day" (by default, "per_stay")
from_number_nights *	int	Apply long stay discount if stay is longer than this number of nights
to_number_nights	int	Apply long stay discount if stay is shorter than this number of nights

Only one of "percent" or "amount" can be defined

<early_bird_discount>

name	type / format	description
percent	int	Percent of discount to apply
amount	decimal	Amount of discount to apply
amount@calculation	string	How the amount of discount must be applied. One of: "per_stay", "per_day" (by default, "per_stay")
days_before_checkin	int	Apply early bird discount if booked at least this number of days in advance
latest_date_before_checkin	yyyy-MM-dd	Apply early bird discount if booked earlier than this date
from_number_nights	int	Apply early bird discount only if stay is longer than this number of nights

Only one of "percent" or "amount" can be defined

<last_minute_discount>

name	type / format	description
percent	int	Percent of discount to apply
amount	decimal	Amount of discount to apply
amount@calculation	string	How the amount of discount must be applied. One of: "per_stay", "per_day" (by default, "per_stay")
days_before_checkin	int	Apply last minute discount if booked less than this number of days in advance

Only one of "percent" or "amount" can be defined

<work_week_discount>

name	type / format	description
percent	int	Percent of discount to apply

<short_stay_supplement>

name	type / format	description
percent	int	Percent of supplement to apply
amount	decimal	Amount of supplement to apply
amount@calculation	string	How the amount of supplement must be applied. One of: "per_stay", "per_day" (by default, "per_stay")
to_number_nights	int	Apply supplement if stay is longer than this number of nights
from_number_nights	int	Apply supplement if stay is shorter than this number of nights

Only one of "percent" or "amount" can be defined

<simple_price_modifier>

name	type / format	description
percent	int	Percent of supplement (or discount if negative) to apply
amount	decimal	Total amount to add (or discount if negative)
amount@calculation	string	How the amount of supplement (or discount) must be applied. One of: "per_stay", "per_day" (by default, "per_stay")

Only one of "percent" or "amount" can be defined

<key_collection_details>

name	type / format	description
office_address	string	Address where collect the keys
opening_hours	string	Time when collect the keys

<rules>

name	type / format	description
stay		Rules about length of the stay
check_in		Rules about check in days / times
check_out		Rules about check out days / times
deposit *	decimal	The amount of money that the customer must pay on arrival as a security deposit (fully refundable)

<stay>

name	type / format	description
minimum_nights	integer	Minimum number of nights allowed to stay in the property

<check_in> / <check_out>

name	type / format	description
days	string	The allowed check in/out days. It can be weekday names separated by commas (monday,wednesday,saturday), or month day numbers separated by commas (1,6,15,20)
from	hh:00	Time when allowed check in/out begins. Use 24h format. (only o'clock hours supported)
to	hh:00	Time when allowed check in/out ends. Use 24h format. (only o'clock hours supported)

2. calendars.xml

This file provides the availability calendar and prices information of all properties.

Remember that the frequency of the calendar updates will affect the ranking of your properties, so please keep it regularly updated.

The Calendar feed must provide a calendar for each property defined in the properties feed. If a property does not have a valid calendar, or all the days in the calendar are blocked, the property will not be published.

A property calendar is formed by 2 different types of data:

- **Availability:** defines which days are available during the following months
- **Season:** defines the pricing and check in/out rules for a defined period of time (season)

All prices must be defined in the same currency used by the property in the properties feed.

Important note: if a particular day is marked as “available” but it is not covered by any season that defines its price, our system will use the default price defined in the properties.xml file. If these days should not be bookable, please mark them as “not available” in the availability node.

The XML structure is:

```
<calendars>
  <calendar>
    <id>(long)</id>
    <agency>(string)</agency>
    <availability month="(int)" year="(int)">(string)</availability>
    ...
    <season>
      <from>(string)</from>
      <to>(string)</to>
      <minimum_stay>(int)</minimum_stay>
      <checkin_days>(string)</checkin_days>
      <checkout_days>(string)</checkout_days>
      <price type="(string)">(decimal)</price>
      ...
      <extra_adult_increase>...</extra_adult_increase>
      ...
      <extra_child_increase>...</extra_child_increase>
      <long_stay_discount>...</long_stay_discount>
      ...
      <early_bird_discount>...</early_bird_discount>
      ...
      <last_minute_discount>...</last_minute_discount>
      ...
      <work_week_discount>...</work_week_discount>
      ...
      <short_stay_supplement>...</short_stay_supplement>
      ...
      <simple_price_modifier>...</simple_price_modifier>
      ...
    </season>
  </calendar>
</calendars>
```

<calendar>

name	type / format	description
id *	string	Identifier of the property (must be the same as in the property feed and unique for each property)
agency *	string	The agency or property manager name or identifier (used to find different agencies in a channel manager integration)
availability	string	Defines the availability of all days in the specified month. It will contain a string with 31 characters (max), each one representing the availability of one day of the month: 0 (not-available), 1 (available)
availability@month	integer	Month number (1-January, 12-December)
availability@year	integer	Year number
season		Pricing and rules of the property defined by multiple seasons

<season>

name	type / format	description
from	yyyy-MM-dd	Date when the season begins (included in the season)
to	yyyy-MM-dd	Date when the season ends (included in the season)
minimum_stay	integer	Minimum nights allowed to stay during this season
checkin_days	string	The allowed check in days. It can be weekday names separated by commas (monday,wednesday,saturday), or month day numbers separated by commas (1,6,15,20)
checkout_days	string	The allowed check out days. It can be weekday names separated by commas (monday,wednesday,saturday), or month day numbers separated by commas (1,6,15,20)
price	decimal	Prices of the season for different periods
price@type	string	Period when this price applies to (one of: night, week or month)
extra_adult_increase		Apply an additional price per extra adult (see properties.xml)
extra_child_increase		Apply an additional price per extra child (see properties.xml)
long_stay_discount		Apply a discount if stay is longer than a minimum (see properties.xml)
early_bird_discount		Apply a discount if the property is booked well in advance (see properties.xml)
last_minute_discount		Apply a discount if the property is booked just before arrival (see properties.xml)
work_week_discount		Apply a discount if the property is booked for a full work week (check in on monday, check out on saturday) (see properties.xml)
short_stay_supplement		Apply a supplement if stay is shorter than a minimum (see properties.xml)
simple_price_modifier		Apply a fixed supplement or discount (see properties.xml)

Services

1. Final Price Service

The Final Price Service allows Only-apartments to ask the Channel system for availability and prices in realtime, making sure that all prices shown to customers are 100% exact and avoiding any possibility of overbooking.

You must implement an HTTPS endpoint where Only-apartments will send requests asking for the final price of your properties for particular check in and check out dates.

Only-apartments will send POST requests to your endpoint URL, using JSON to serialize the message sent.

There is a single message that your endpoint will receive:

Final Price

Only-apartments will send a **Final Price** message every time it needs to confirm availability and price for a particular combination of check in date, check out date, adults and children.

Your endpoint must verify that the property is still available, and return the final price of the stay, including all mandatory extras that are marked as "included in price" in the content feed.

If there is any kind of error, or if the property is not available, your system must return a message specifying the error.

Example Request:

```
POST https://www.your.system.com/path/to/your/final_price/endpoint
```

```
Content-Type: application/json
```

```
{
  "property_id": "A2345",
  "check_in": "yyyy-MM-dd",
  "check_out": "yyyy-MM-dd",
  "adults": 2,
  "children": 0
}
```

Example Response (successful):

```
200 OK
```

```
{
  "status": "OK",
  "amount": 500.00,
  "currency": "EUR"
}
```

Example Response (error):

```
200 OK
```

```
{
  "status": "ERROR",
  "error": "Property is not available"
}
```

2. Booking Service

The Booking Service allows your system to receive bookings generated by Only-apartments, and update your databases automatically.

You must implement an HTTPS endpoint where Only-apartments will send all confirmed and canceled bookings from your properties.

Only-apartments will send POST requests to your endpoint URLs, using JSON to serialize the message sent.

There are 2 types of messages your system must accept:

- **Confirmation:** Only-apartments will send information about every confirmed booking
- **Cancellation:** Only-apartments will send information about every canceled booking (only if it was previously confirmed)

You must provide Only-apartments **2 different** URLs, one for each message type.

Confirmation

Only-apartments will send a booking confirmation message for each new confirmed booking.

Your endpoint must save the booking into your system, and return the generated unique booking id.

If there is any kind of error creating the booking, your system must return a message specifying the error.

Example Request:

```
POST https://www.your.system.com/path/to/your/confirmation/endpoint
```

```
Content-Type: application/json
```

```
{
  "property_id": "A2345",
  "booking_code": "XXX-YYY-ZZZ",
  "check_in": "yyyy-MM-dd",
  "check_out": "yyyy-MM-dd",
  "adults": 2,
  "children": 0,
  "amount": 500.00,
  "net_amount": 410.00,
  "currency": "EUR",
  "customer_name": "name",
  "customer_email": "email@customer.com",
  "customer_phone": "999888777",
  "customer_country": "GB",
  "customer_language": "en",
  "customer_comments": "I need to bring my pet"
}
```

Example Response (successful):

```
200 OK
```

```
{
  "status": "OK",
  "booking_id": "B009992"
}
```

Example Response (error):

```
200 OK
```

```
{
  "status": "ERROR",
  "error": "Property is not available"
}
```


Cancellation

Only-apartments will send a booking cancellation message for each booking that has been canceled (only if it was previously confirmed).

Your service must update the booking status in your system, and return an "OK" response.

If there is any kind of error canceling the booking, your system must return a message specifying the error.

Example Request:

```
POST https://www.your.system.com/path/to/your/cancellation/endpoint
```

```
Content-Type: application/json
```

```
{
  "booking_id": "B009992"
}
```

Example Response (successful):

```
200 OK
```

```
{
  "status": "OK"
}
```

Example Response (error):

```
200 OK
```

```
{
  "status": "ERROR",
  "error": "Booking not found"
}
```

APPENDIX A: Property Types

type
apartment
house
studio
country_house
villa
bedroom
aparthotel
bungalow
boat

APPENDIX B: Amenities

amenity
reception_24h
air_conditioning
american_kitchen
baby_cot
balcony
bar
bbqs
bed_linen
mixer
cable_tv
internet_cable
children_playground
coffee_machine
swimming_pool_communal
shared_garden
computer
conciierge
kitchenware
dishwasher
dryer_machine
dvd_player
fans
fireplace
freezer
fridge
games_console
garden

golf_course
gym
hair_dryer
heating
baby_chair
internet
internet_usb
iron
ironing_board
jacuzzi
squeezer
kettle
kid_friendly
cooker
lift
microwave
mp3_player
lift_no_from_ground
lift_no_to_top
no_young_groups
non_smoker
oven
parking
pet_friendly
pets_not_allowed
telephone
swimming_pool
portable_heaters
swimming_pool_private
public_parking
public_swimming_pool
radio
restaurant
safe_deposit_box
sandwich_toaster
sauna
waterfront_property
sea_views
separate_kitchen
shared_kitchen
ski
smoking_allowed
soap
spa
stereo_system
burning_stove
handicapped
handicapped_access_only

telephone_incoming_calls
tennis_court
terrace
terrace_furniture
toaster
toilette
towels
tv
vacuum_cleaner
video
washing_machine
internet_wifi

APPENDIX C: Restrictions

type
parties
pets
big_pets
smokers
hooligans
kids

APPENDIX D: Extra Fees

type
cleaning
late_check_in
late_check_out
check_in_sunday
check_in_weekend
check_out_sunday
check_out_weekend
extra_bed
baby_cot
baby_highchair
bed_linen
towels
parking
breakfast
half_board

full_board
tourist_tax
forfait
internet
water
gas
electricity
air_conditioning
heating
pet
bicycle_rental
transfer_airport
tour_guide
luggage_deposit_apartment
luggage_deposit_office
cleaning_during_stay
insurance
supplies
custom

APPENDIX E: Payment Types

payment
payed_once
per_person
per_night
per_two_nights
per_hour
per_week
per_person_week
per_person_and_night
per_person_and_two_nights
per_consumption

APPENDIX F: Age Restrictions

type
none
over_18
over_21
over_25
over_28
over_30
over_35
over_40
adults_only
families_only
couples_or_families_only

APPENDIX G: Payment Modes

payment
already_included
pay_on_booking
pay_on_site