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Simple, Transparent and Effective Processes
For Global Commerce

BUSINESS REQUIREMENTS SPECIFICATION (BRS)

Business Domain: Travel, Tourism & Leisure Industry

Business Process: Small Scaled Lodging House Travel Product Information Process

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Business Requirements Specification

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1. Preamble

Small scaled lodging houses are hotels or any type of lodging facilities where people stay primarily for leisure rather than business. They are usually located in sightseeing areas or any areas considered as leisure spots. There is a large number of this type of lodging facility around the world and they are usually small. Due to the characteristics of their location and the leisure activities provided, the services offered to customers may be quite diversified, varying from one lodging house to another or from one location to another.

This document covers the services that a lodging house may provide to customers, which, hereinafter, will be described as lodging house travel products, and serves to supplement the lodging house general information. Customers may search lodging house travel products together with the general lodging house information before they book a stay or visit a lodging house. A customer needs to be well informed about a travel product(s) before a reservation is made.

2. References

- UMM Foundation Module V1.0 (2006)
- UMM Base Module V1.0 (2006)
- Core Components Technical Specifications Part 8 of the ebXML Framework V2.01(15 Nov. 2003)
- XML Naming and Design Rules 2.0
- UML Profile for Core Components V1.0 Final Specification (2008-01-16)
- UN/CEFACT CC Library version 2007B
- UN/CEFACT Business Requirements Specification version 1.5 (CEFACT/ICG/005)

3. Objective

The objective of this document is to standardise the exchange of travel product information for a specific lodging house between trading parties. The travel product information sent from a supplying party or a lodging house, or requested from a buying party, such as a travel agent or a consumer, is specified and the business information entities required for these transactions are detailed in this document.

The business documents are composed of Business Information Entities (BIE), which when available, are taken from the library of reusable business information entities and when not found, are proposed as new Business Information Entities. The contents of the business documents and the Business Information Entities are presented using class diagrams.

4. Scope

This document covers the travel products a lodging house may provide to customers, and serves to supplement the general lodging house information. The characteristics of lodging house travel products are quite diversified from serving rooms to various types of products that the lodging houses offer to their customers. These may include meals, dancing shows, hot springs, sporting facilities, transportation to and from a location, events in and visits to nearby spots, and many others. A lodging house may provide these services as a packaged type of travel product or as separate

single travel products. These may vary from one lodging house to another. Customers may need to understand what types of travel products they can utilize when they stay or visit lodging houses.

The price and description of each of the travel products needs to be available for customers who are interested in visiting a lodging house. For packaged type travel products, the individual components which make up the packaged product need to be described so that the customers may be aware of what is included in the package.

This document (CEFACT/Forum/2008/TBG9) is used in the global travel, tourism and leisure (TT&L) industry and may also be used by any general consumer in the role of a buying party who does not have the needed information of a travel product for a specific lodging house. This information is general in nature and any customer whether he is a travel agent or a consumer can have access to this information.

The class diagram of the lodging house travel product information is developed in a manner that specifies the cross industry reusable business information entities and the TT&L reusable business information entities.

Categories	Description and Values
Business process	Lodging house travel product information process in the supply chain of TT&L
Product Classification	Lodging house travel product information
Industry Classification	Travel, tourism & leisure industry
Geopolitical	Global
Official Constraint	None
Business Process Role	Private and public information exchange
Supporting Role	None
System Capabilities	No limitations

The lodging house travel product information process is used to exchange the lodging house travel product information between the supplier and the customer (trading partner or consumer) for the supply of lodging house travel product information ordered, delivered, received, consumed, etc.

To simplify understanding, the parties involved are limited to customer and supplier. In the total trade business, each of the parties can have more than one role. For the lodging house travel product information process, the customer can act as the consumer, the buyer, or the travel agent. The supplier covers the roles of the seller, the sales agent or sales company, the lodging house operator and payee.

To ensure that the lodging house travel product information process is in line with common practice used between trading parties, the following scenarios are used:

- 1) Case 1
 - The lodging house travel product information is sent from a supplier directly to customers, especially, travel agents or corporate customers.
 - Customers respond to the supplier on the receipt of the lodging house travel product information
- 2) Case 2
 - The lodging house travel product information request by a customer to a supplier
 - The lodging house travel product information response from the supplier to the customer
 -

5. Business requirements

5.1. Business requirements views

The lodging house travel product information in this document is the information specific to a lodging house, and it may be sent from a supplier to its customers or requested by a customer who needs the information.

5.2 Business process elaboration – Use case diagram

5.2.1. Scope

This process details the request and response of the information for a specific lodging house travel product. Any supplier of a lodging house can send the information to its customers and receive the response on its receipt. Also a customer can request the information and receive the response from the supplier that contains the information if the requesting message is valid in syntax and context. The use case is shown in Figure 1.

5.2.2. Use case: Lodging House Travel Product Information Exchange

The use case for the lodging house travel product information request and response is shown in Figure 1

Use case description – Lodging House Travel Product Information

Business process name	Lodging House Travel Product Information Request and Response
Identifier	
Actors	Customer, Supplier
Description	The supplier presents to the customer, for lodging house travel product information
Pre-condition	None
Post-conditions	None
Scenario	Lodging House Travel Product Information Request and Response
Remarks	Any supplier can send this information or any customer can request this information

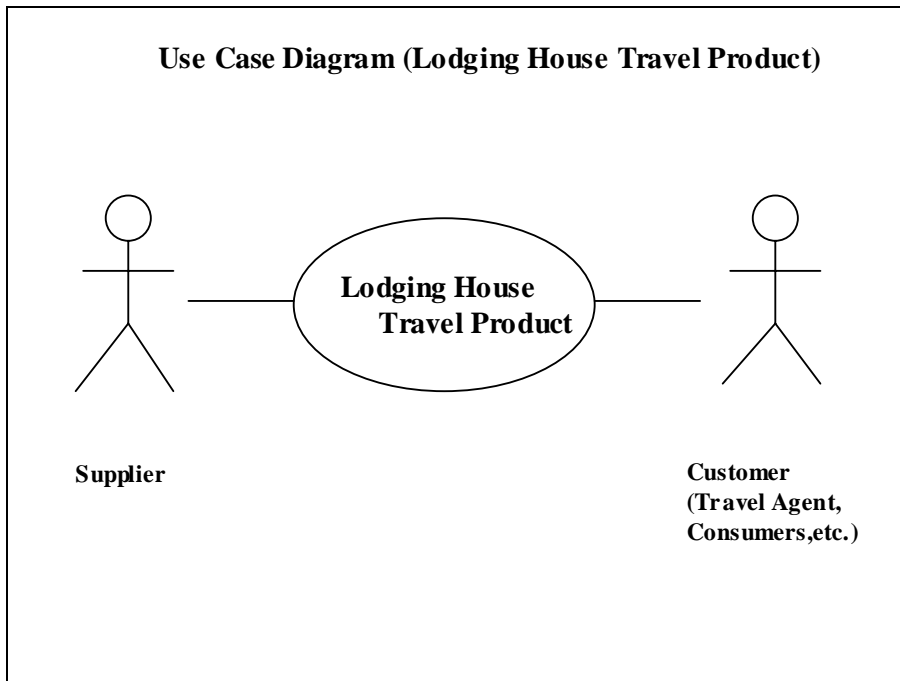


Figure 1 Use Case Diagram --- Lodging House Travel Product Information

5.3. Information flow definition – Activity diagram

For the use case in chapter 5.2., the corresponding activity diagrams are presented in Figure 2 and Figure 3.

5.3.1. Case 1

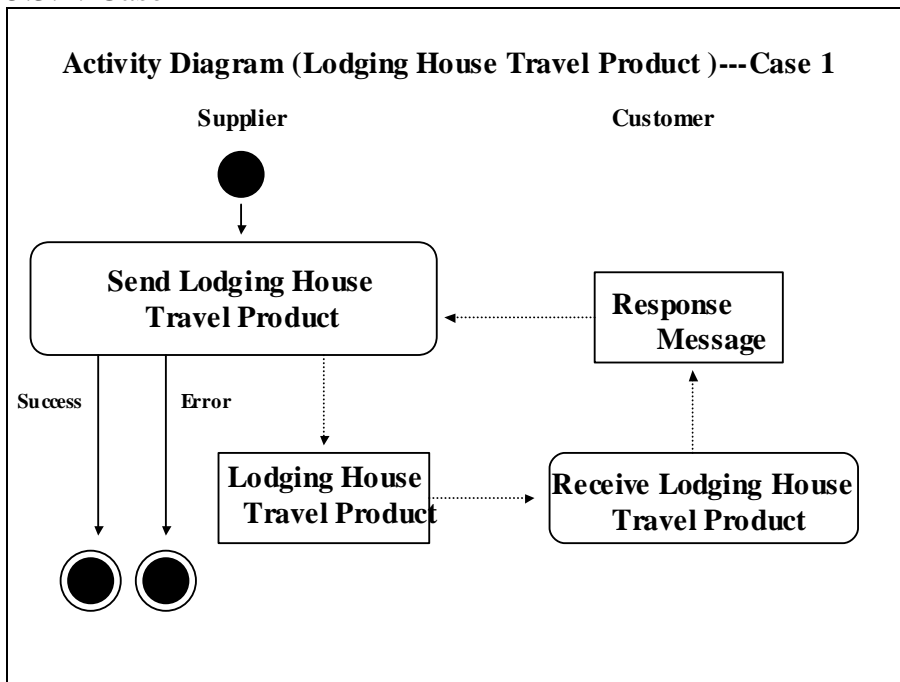


Figure 2 Activity Diagram --- Case 1

Any lodging house can send its lodging house travel product information to its customers and receive an acknowledgement as to whether the information has been received correctly.

5.3.2. Case 2

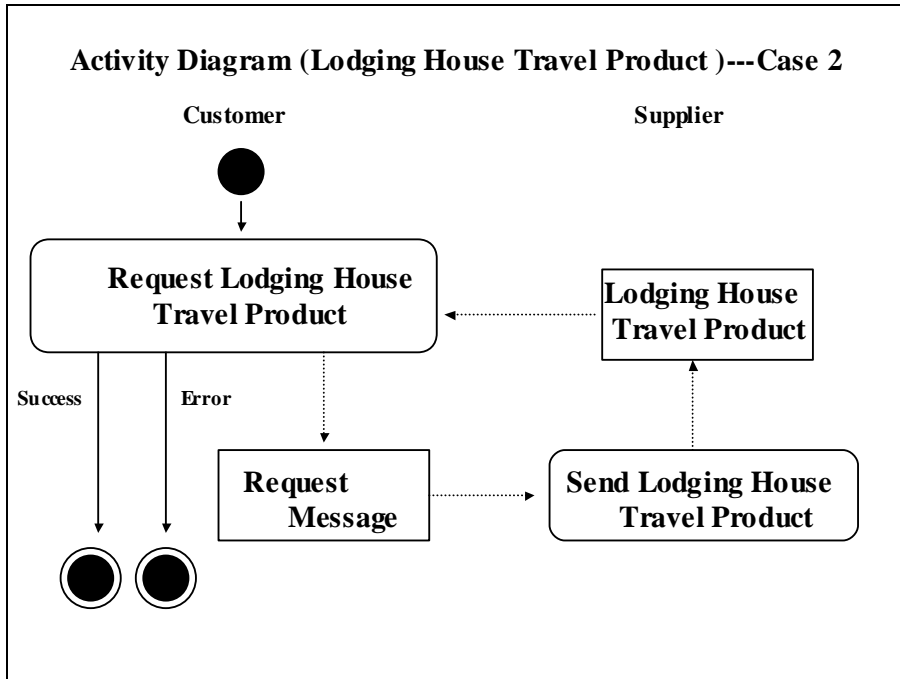


Figure 3 Activity Diagram --- Case 2

Any customer can initiate the request for the lodging house travel product information and receive the information once the requesting message is valid in syntax and context.

5.4. Information model definition – Class diagram

The class diagram of the lodging house travel product information used in the use case of Figure 1 is shown below in Figure 4 and Figure 5. Figure 4 shows the location of the lodging house travel product class among the lodging house information class which is already defined in the BRS for small scaled lodging house information process. Figure 5 shows the lodging house travel product class and its sub-classes.

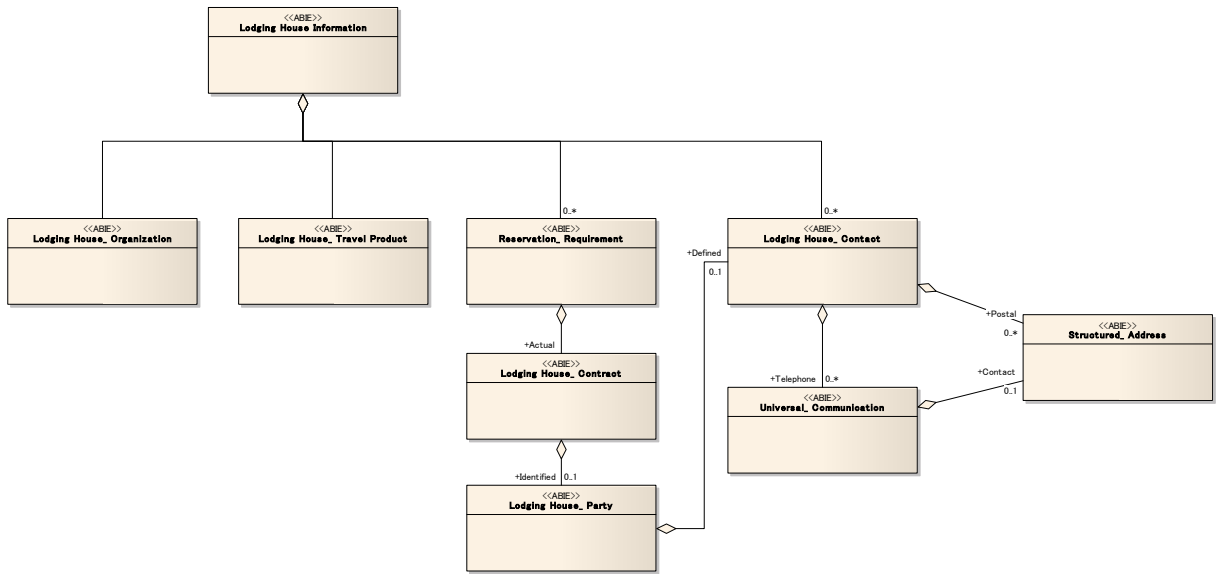


Figure 4 Location of Lodging House Travel Product Class among Lodging House Information Class

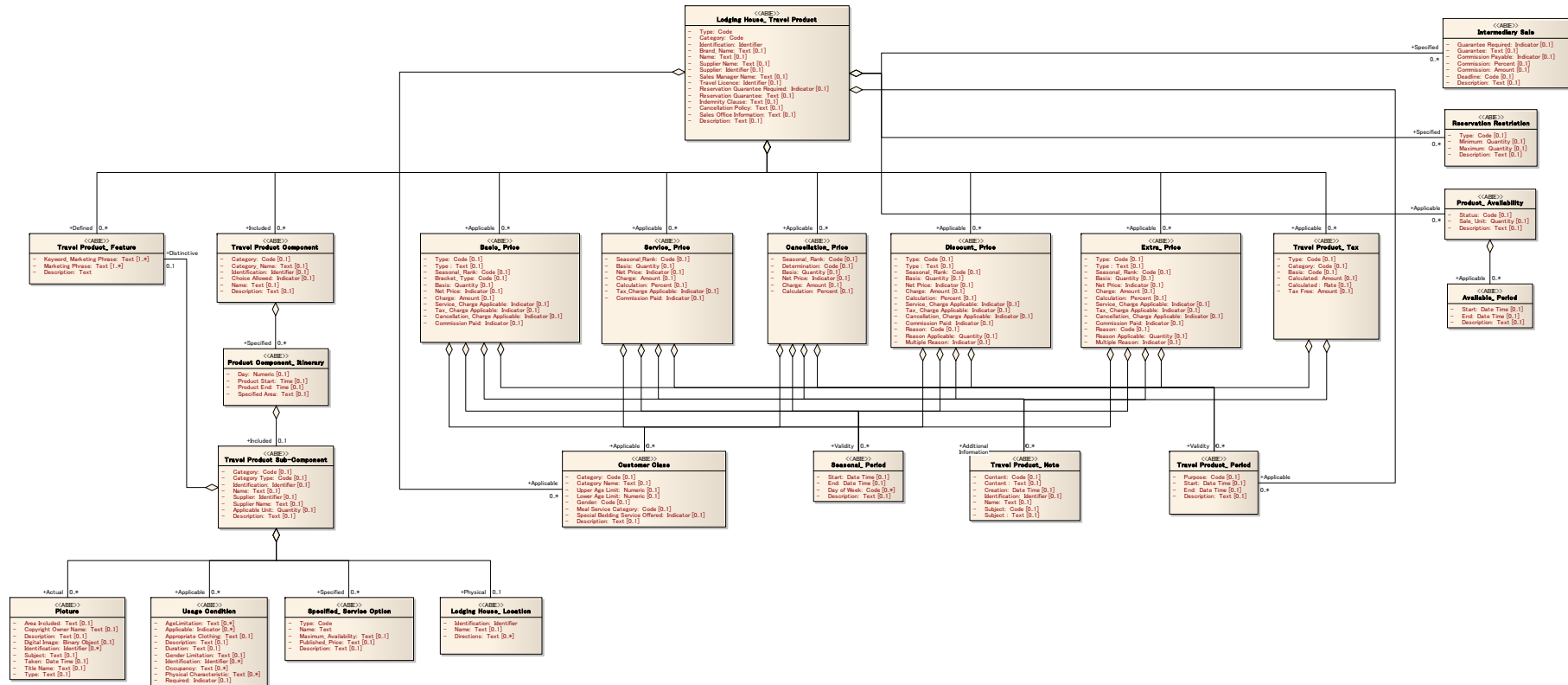


Figure 5 Class Diagram for Lodging House Travel Product Information

5.5. Business rules

In the activity diagram in case 1, a lodging house may send information about its travel products to its customers, especially travel agents or corporate customers, who may then sell the travel products to their own end consumers, and receive an acknowledgement of the receipt of the information. This transaction is performed based on a prior contract between the trading parties (this contract is out of scope for this document).

In the activity diagram in case 2, a customer can request and receive the response of the lodging house travel product information from the specified lodging house. The customer, whether he is a travel agent or a consumer, has no regulations relating to the business rules.

5.6. Definition of terms

The definition of terms used in the lodging house travel product information is shown in Figure 6.

Figure 6 Definition of terms

Business Name	Definition
Lodging House Travel Product. Details	A lodging house travel item which may be purchased by a customer.
Type Code	The code specifying the type of lodging house travel product.
Category Code	The code specifying the category of lodging house travel product.
Identification. Identifier	The unique identifier for this lodging house travel product.
Brand Name Text	The brand name, expressed as text, of this lodging house travel product.
Name Text	The name, expressed as text, of this lodging house travel product.
Supplier Name Text	The name, expressed as text, of the supplier of this lodging house travel product.
Supplier Identifier	The unique identifier for the supplier of this lodging house travel product.
Sales Manager Name Text	The name, expressed as text, of the sales manager for this lodging house travel product.
Travel Licence Identifier	The unique travel licence identifier for this lodging house travel product.
Reservation Guarantee Required Indicator	The indication of whether or not this lodging house travel product requires a reservation guarantee.
Reservation Guarantee Text	The reservation guarantee, expressed as text, for this lodging house travel product.
Indemnity Clause Text	The indemnity clause, expressed as text, for this lodging house travel product.

Cancellation Policy Text	The cancellation policy, expressed as text, for this lodging house travel product.
Sales Office Information Text	Sales office information, expressed as text, for this lodging house travel product.
Description Text	The textual description of this lodging house travel product.
Applicable Customer Class	A customer class applicable to this lodging house travel product.
Specified Reservation Restriction	A reservation restriction specified for this lodging house travel product.
Specified Intermediary Sale	Intermediary sale information specified for this lodging house travel product.
Defined Travel Product Feature	A feature defined for this lodging house travel product.
Applicable Travel Product Period	A period applicable to this lodging house travel product.
Included Travel Product Component	A travel product component included in this lodging house travel product.
Applicable Product Availability	Product availability applicable to this lodging house travel product.
Applicable Basic Price	A basic price applicable to this lodging house travel product.
Applicable Extra Price	An extra price applicable to this lodging house travel product.
Applicable Discounted Price	A discounted price applicable to this lodging house travel product.
Applicable Service Price	A service price applicable to this lodging house travel product.
Applicable Travel Product Tax	A tax applicable to this lodging house travel product.
Applicable Cancellation Price	A cancellation price applicable to this lodging house travel product.
Customer Class. Details	The conditions and requirements of the type of person who may use or purchase a product.
Category Code	The code specifying the category of a customer class, such as adult or child.
Category Name Text	The category name, expressed as text, of a customer class.

Upper Age Limit Numeric	The upper age limit in number of years for the category of a customer class.
Lower Age Limit Numeric	The lower age limit in number of years for the category of a customer class.
Gender Code	The code specifying the gender in a customer class.
Meal Service Category Code	The code specifying the meal service category for a customer class.
Special Bedding Service Offered Indicator	The indication of whether or not special bedding service is offered for a customer class.
Description Text	The textual description of a customer class.
Reservation Restriction. Details	A limitation for the booking of a product or service.
Type Code	The code specifying the type of reservation restriction.
Minimum Quantity	The minimum quantity for this reservation restriction.
Maximum Quantity	The maximum quantity for this reservation restriction.
Description Text	The textual description of this reservation restriction.
Intermediary Sale. Details	The conditions and commission information that apply to the selling of a product by an entity other than the supplier of the product.
Guarantee Required Indicator	The indication of whether or not an intermediary sale requires a guarantee.
Guarantee Text	The guarantee, expressed as text, for an intermediary sale.
Commission Payable Indicator	The indication of whether or not commission will be paid for an intermediary sale.
Commission Percent	The percent of commission for an intermediary sale.
Commission Amount	The monetary value of the commission for an intermediary sale.
Deadline Code	The code specifying the deadline for an intermediary sale.
Description Text	The textual description of an intermediary sale.
Travel Product Feature. Details	Distinctive or characteristic parts of a travel product.

Keyword Marketing Phrase Text	A keyword for a catch phrase, expressed as text, for marketing this travel product feature.
Marketing Phrase Text	A catch phrase, expressed as text, for marketing this travel product feature.
Description Text	The textual description of this travel product feature.
Travel Product Component. Details	An item that is included in a travel product for which there is no additional charge.
Category Code	The code specifying the category of this travel product component.
Category Name Text	The category name, expressed as text, of this travel product component.
Identification Identifier	The unique identifier for this travel product component.
Choice Allowed Indicator	The indication of whether or not a choice is allowed within this travel product component.
Name Text	The name, expressed as text, for this travel product component.
Description Text	The textual description of this travel product component.
Specified Product Component Itinerary	A product component itinerary specified for this travel product component.
Product Component Itinerary. Details	Schedule and location information for travel for a product component.
Day Numeric	The number of the day in this product component itinerary, such as day 1, day 2, or day 3.
Product Start Time	The start time of the product for this product component itinerary.
Product End Time	The end time of the product for this product component itinerary.
Specified Area Text	The specified area, expressed as text, for this product component itinerary.
Included Travel Product Sub-Component	The travel product sub-component included in this product component itinerary.
Travel Product Sub-Component. Details	An item which is included in a travel product component.
Category Code	The code specifying the category for this travel product sub-component.

Category Type Code	The code specifying the type of category for this travel product sub-component.
Identification Identifier	The unique identifier for this travel product sub-component.
Name Text	The name, expressed as text, of this travel product sub-component.
Supplier Identifier	The unique identifier for the supplier of this travel product sub-component.
Supplier Name Text	The name, expressed as text, of the supplier of this travel product sub-component.
Applicable Unit Quantity	The number of units applicable to this travel product sub-component.
Description Text	The textual description of this travel product sub-component.
Distinctive Travel Product Feature	A distinctive travel product feature for this travel product sub-component.
Specified Service Option	A service option specified for this travel product sub-component.
Actual Picture	An actual picture of this travel product sub-component.
Applicable Usage Condition	A usage condition applicable to this travel product sub-component.
Physical Lodging House Location	The lodging house physical location for this travel product sub-component.
Basic Price. Details	A sum of money for which something is or may be bought or sold without any discount or surcharge being applied.
Type Code	The code specifying the type of basic price.
Type Text	The type, expressed as text, of the basic price.
Seasonal Rank Code	The code specifying the seasonal rank of this basic price, such as peak or bottom.
Bracket Type Code	The code specifying the bracket type of this basic price.
Basis Quantity	The quantity on which the basic price is based.

Net Price Indicator	The indication of whether or not the basic price is a net price.
Charge Amount	The monetary value of the basic price charged.
Service Charge Applicable Indicator	The indication of whether or not a service charge is applicable to the basic price.
Tax Charge Applicable Indicator	The indication of whether or not a tax charge is applicable to the basic price.
Cancellation Charge Applicable Indicator	The indication of whether or not the cancellation charge is applicable to the basic price.
Commission Paid Indicator	The indication of whether or not a commission will be paid for this basic price.
Validity Travel Product Period	A travel product period for which this basic price is valid.
Validity Seasonal Period	A seasonal period for which this basic price is valid.
Additional Information Travel Product Note	Additional travel product information for a basic price.
Applicable Customer Class	A customer class applicable to the basic price.
Extra Price. Details	A sum of money which is an addition to the price for which something is or may be bought or sold, such as for a special meal.
Type Code	The code specifying the type of extra price.
Type Text	The type, expressed as text, of this extra price.
Seasonal_ Rank Code	The code specifying the seasonal rank of this extra price.
Basis Quantity	The quantity on which the extra price is based.
Net Price Indicator	The indication of whether or not the extra price is a net price.
Charge Amount	The monetary value of the extra price charged.
Calculation Percent	The percentage applied to calculate the extra price.
Service Charge Applicable Indicator	The indication of whether or not a service charge is applicable to the extra price.
Tax Charge Applicable Indicator	The indication of whether or not a tax charge is applicable to the extra price.
Cancellation Charge Applicable Indicator	The indication of whether or not a cancellation charge is applicable to the extra price.
Commission Paid Indicator	The indication of whether or not a commission will be paid for this extra price.

Reason Code	The code specifying the reason for this extra price.
Reason Applicable Quantity	The number applicable to the reason for this extra price.
Multiple Reason Indicator	The indication of whether or not multiple reasons affect the extra price.
Validity Travel Product Period	A travel product period for which this extra price is valid.
Validity Seasonal Period	A seasonal period for which this extra price is valid.
Additional Information Travel Product Note	Additional travel product information for an extra price.
Applicable Customer Class	A customer class applicable to the extra price.
Discount Price. Details	A sum of money which is discount against a price for which something may be bought or sold.
Type Code	The code specifying the type of discount price.
Type Text	The type, expressed as text, of this discount price.
Seasonal Rank Code	The code specifying the seasonal rank of this discount price.
Basis Quantity	The quantity on which the discount price is based.
Net Price Indicator	The indication of whether or not the discount price is a net price.
Charge Amount	The monetary value of the discount price charged.
Calculation Percent	The percentage applied to calculate the discount price.
Service Charge Applicable Indicator	The indication of whether or not a service charge is applicable to the discount price.
Tax Charge Applicable. Indicator	The indication of whether or not a tax charge is applicable to the discount price.
Cancellation Charge Applicable. Indicator	The indication of whether or not a cancellation charge is applicable to the discount price.
Commission Paid Indicator	The indication of whether or not a commission will be paid for this discount price.
Reason Code	The code specifying the reason for this discount price.
Reason Applicable Quantity	The number applicable to the reason for this discount price.
Multiple Reason Indicator	The indication of whether or not multiple reasons affect this discount price.
Validity Travel Product Period	A travel product period for which this discount price is valid.

Validity Seasonal Period	A seasonal period for which this discount price is valid.
Additional Information Travel Product Note	Additional travel product information for a discount price.
Applicable Customer Class	A customer class applicable to a discount price.
Service Price. Details	A sum of money for a service which is or may be bought or sold.
Seasonal Rank Code	The code specifying the seasonal rank of this service price.
Basis Quantity	The quantity on which the service price is based.
Net Price Indicator	The indication of whether or not the service price is a net price.
Charge Amount	The monetary value of the service price charged.
Calculation Percent	The percentage applied to calculate the service price.
Tax Charge Applicable Indicator	The indication of whether or not a tax charge is applicable to the service price.
Commission Paid Indicator	The indication of whether or not a commission will be paid for this service price.
Validity Travel Product Period	A travel product period for which this service price is valid.
Validity Seasonal Period	A seasonal period for which this service price is valid.
Additional Information Travel Product Note	Additional travel product information for a service price.
Applicable Customer Class	A customer class applicable to a service price.
Travel Product Tax. Details	The levy required by the national and local government for the travel product.
Type Code	The code specifying a type of tax for the travel product.
Category Code	The code specifying the category to which the tax for the travel product applies.
Basis Code	The code specifying the basis of the tax for the travel product.
Calculated Amount	The monetary value resulting from the calculation of a tax for the travel product.
Calculated Rate	The rate used to calculate the tax amount for the travel product.

Tax Free Amount	The monetary value that is tax free for this tax for the travel product.
Validity Travel Product Period	A period for which this tax for the travel product is valid.
Additional Information Travel Product Note	Additional information for a travel product tax.
Cancellation Price. Details	A sum of money for cancelling something which is or may be bought or sold.
Seasonal Rank Code	The code specifying the seasonal rank of this cancellation price.
Determination Code	The code specifying how the cancellation price is determined.
Basis Quantity	The quantity on which the cancellation price is based.
Net Price Indicator	The indication of whether or not the cancellation price is a net price.
Charge Amount	The monetary value of the cancellation price charged.
Calculation Percent	The percentage applied to calculate the cancellation price.
Validity Travel Product Period	A travel product period for which this cancellation price is valid.
Validity Seasonal Period	A seasonal period for which this cancellation price is valid.
Additional Information Travel Product Note	Additional information about the travel cancellation price.
Applicable Customer Class	A customer class applicable to the cancellation price.
Travel Product Period. Details	A specific period of time such as the length of time between two known date/time points, from a start date onwards, or up to an end date for a travel product.
Purpose Code	The code specifying the purpose of this travel product period.
Start Date Time	The date, time, date time or other date time value for the start of this travel product period of time.
End Date Time	The date, time, date time or other date time value for the end of this travel product period of time.
Description Text	The textual description of this travel product period.

Seasonal Period. Details	A specific period of time such as the length of time between two known date/time points, from a start date onwards, or up to an end date for a season.
Start Date Time	The date, time, date time or other date time value for the start of this seasonal period of time.
End Date Time	The date, time, date time or other date time value for the end of this seasonal period of time.
Day of Week Code	A code specifying a day of the week for this seasonal period.
Description Text	The textual description of this seasonal period.
Travel Product Note. Details	A textual or coded description, such as a remark or additional information, for the travel product.
Content Code	The code specifying the content of this travel product note.
Content Text	The content, expressed as text, of this travel product note.
Creation Date Time	The date, time, date time, or other date time value for the creation of this travel product note.
Identification Identifier	The unique identifier for this travel product note.
Name Text	The name, expressed as text, for this travel product note.
Subject Code	The code specifying the subject of this travel product note.
Subject Text	The subject, expressed as text, of this travel product note.
Product Availability. Details	A product which is obtainable or at one's disposal.
Status Code	The code specifying the product availability status.
Sale Unit Quantity	The number of product units available for sale.
Description Text	The textual description of this product availability.
Applicable Available Period	An available period applicable to this product availability.
Available Period. Details	A specific period of time such as the length of time between two known date/time points, from a start date onwards, or up to an end date for which something is available.
Start Date Time	The date, time, date time or other date time value for the start of this available period of time.

End Date Time	The date, time, date time or other date time value for the end of this available period of time.
Description Text	The textual description of this available period.
Picture. Details	A painting, drawing, or photograph represented as a digital image for electronic sharing.
Area Included Text	The area or location, expressed as text, that is included in this picture.
Copyright Owner Name Text	The name of the copyright owner, expressed as text, for this picture.
Description Text	The textual description of this picture.
Digital Image Binary Object	Binary object data that is the actual digital image for this picture.
Identification Identifier	A unique identifier for this picture.
Subject Text	The subject, expressed as text, of this picture.
Taken Date Time	The date, time, date time, or other date value of when this picture was created.
Title Name Text	The name, expressed as text, of the title for this picture.
Type Text	The type, expressed as text, of this picture, such as a painting, drawing, or photograph.
Usage Condition. Details	A stipulation or thing upon which the fulfilment of something else depends.
Age Limitation Text	An age limitation, expressed as text, applicable to this usage condition.
Applicable Indicator	An indication of whether or not this usage condition is applicable.
Appropriate Clothing Text	The appropriate clothing, expressed as text, applicable to this usage condition.
Description Text	The textual description of the usage condition.
Duration Text	The duration, expressed as text, applicable to this usage condition.
Gender Limitation Text	The gender limitation, expressed as text, applicable to this usage condition.
Identification Identifier	A unique identifier for this usage condition.
Occupancy Text	An occupancy, expressed as text, applicable to this usage condition.

Physical Characteristic Text	A physical characteristic, expressed as text, applicable to this usage condition.
Required Indicator	The indication of whether or not this usage condition is required.

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