



CGS ApplicationsSystem

Version No. : 0.0.21

Date : 30/07/2021

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1 Introduction

1.1 Document Purpose

The purpose of this document is to provide a ~~high-level~~high-level technical view of a CGS (Central Ground Service) for use by both application development and application support teams. It should be read in combination with 'System overview and support' document. ~~In particular, it~~ will give a quick start to new joiners and so minimize the training effort.

~~CGS (Central Ground Service) facilitates hotels booking process (including third party) using Yalago API through Hotel Search Engine and Hotel Provider.~~

~~Yalago API act as Gateway which do the integration of application along with performing authentication and authorization. It use to do the integration with API using fixed format of XML~~

~~Hotel Search Engine is standalone software/tool which has algorithms to provide best deal to end user/customer, it provides best deal to customer by contacting every provider using multi-threading,~~

1.2 Scope

~~Complete list of behaviours and features of CGS application suite~~System are governed by list of applications and services. There are mainly two main categories of applications and services, one which is fully controlled and maintained by CGS teams, so these applications and services are listed under in-scope. There is another category of services which are supported by 3rd party service providers, and all the third party services are consumed on the basis of predefined contracts and declarations, so these services are kept under ~~out-scope~~ applications/components/modules/features applicable in this project/application. ~~out-scope~~, because their complete internal behaviours and features are fully controlled and maintained by 3rd party service providers.

1.2.1 In-Scope

~~Below listed applications/modules/services are major part of CSG System~~application suite.

1. Yalago AutoBooker
2. Yalago API
3. Affiliate Extranet
4. Purple Derwent
5. AutoCompleter
6. Hotel Search Engine
7. dnataContracts
8. dnataExtranet
9. Contract Service
10. Green Derwent
11. Hotel Extranet

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Out-scope

1.2.2

Below listed services are integral part of CGS applications but supported by third party service providers. So internal details about business processing are beyond the scope of this document. Although Hotel booking eco system is bifurcated into two parts (Derwent Platform, CGS/Yalago), yet in our scope is limited to only CGS/Yalago.

CGS/Yalago is composition of below applications

3. Yalago AutoBooker

4. Yalago API

5. Affiliate Extranet

6. Pruple Derwent

7. AutoCompleter

9. Hotel Search Engine

11. Bonotel

12. Melia

1. Jumeirah

2. Bonotel

3. Melia

13.4. Derwent Platform system

14.1. dnataContracts

1. dnataExtranet

15.1. Contract Service

15.1. Green Derwent

15.1. Hotel Extranet

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<Mention the in-scope and out-scope applications/components/modules/features applicable in this project/application.>

The top-level functional and technical architecture. The aim is to give a top-level view of the system, its use by the business and its technical infrastructure. It is also to give an idea of the size and importance and complexity of the system—so you can tell the difference between Eclipse and Paragon.

Clearly mention inclusions and exclusions.

1.61.3 Audience

This overview document is to be used by application development and application support teams. In particular, it will serve as a baseline for anyone joining the dnata CGS Teams in understanding the CGS Applications and services.



1.7 Definitions and Acronyms

1.4 <Terms, acronyms and definitions>

Term	Description
CGS	Central Ground Service
Dnata	Dubai National Air Travel Agency
Agent	Internal User (Affiliate Web Portal)
Affiliate client	3rd Party Clients

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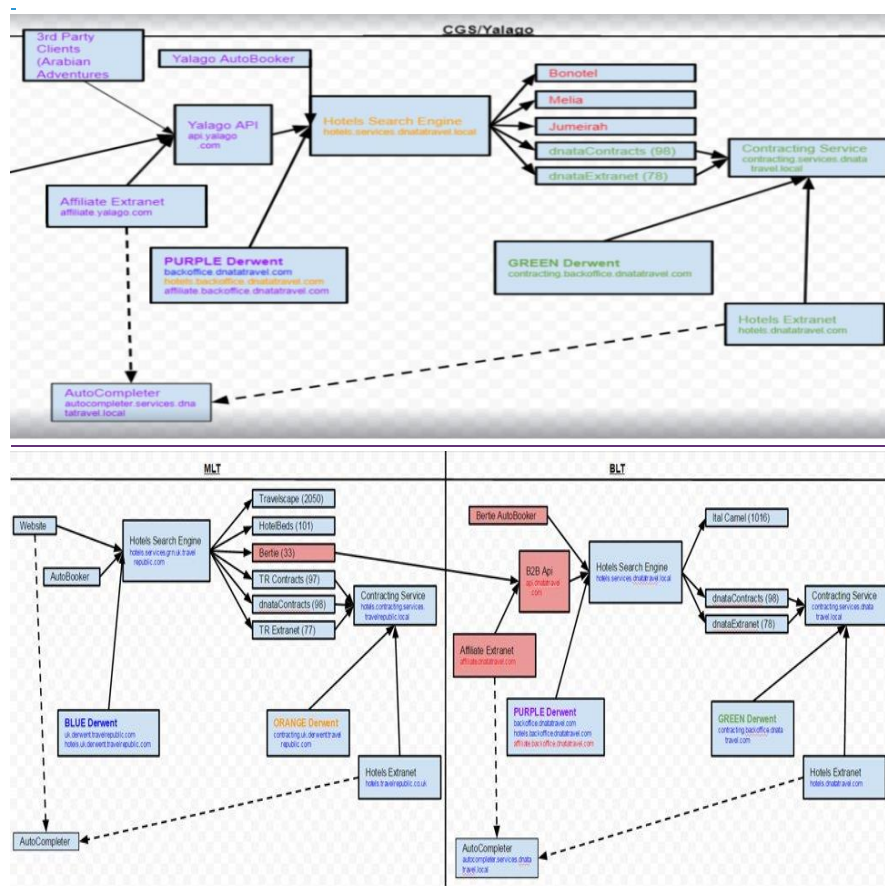
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1.81.5 Assumptions and Dependencies

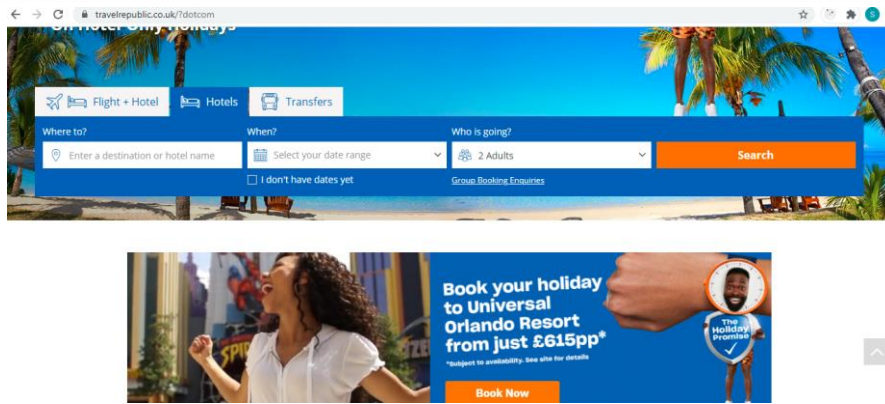
2 Business Overview

2.1 Functional Overview

CGS offers services which are mainly used for hotel search and booking purposes, it provides best deal to customer by contacting various service provider connected to Hotel Search Engine (Bonotel, dnataContracts and etc. in the market). Its services help businesses to perform operations under the B2B commercial transactions mode. CGS has the Yalago API as a primary product which serves all aforesaid services. Functional workflow of CGS services is depicted in below diagram.



As per above image, A website which provides hotel booking service to end customer can consume CGS service (Yalago API). And when customer searches for hotel as shown below (for illustration purpose only.)



Internally Yalago API is contacted to return response to website based on user preference provided in parameter of service (i.e. Where to?, Where, Who is going).

2.1.1 API Interaction Workflow

As mentioned above that any website or any B2B service sends request to CGS service (Yalago API) to get the response against the user provided input as mentioned in diagram 1. Given below the component diagram for understanding.

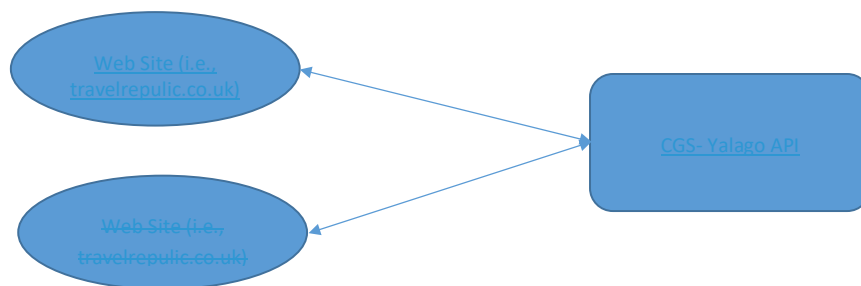


Diagram 1

There is also role of Bertie AutoBroker which is not clear as of now. Above detail and diagram will be updated based on knowledge of Bertie autobroker.

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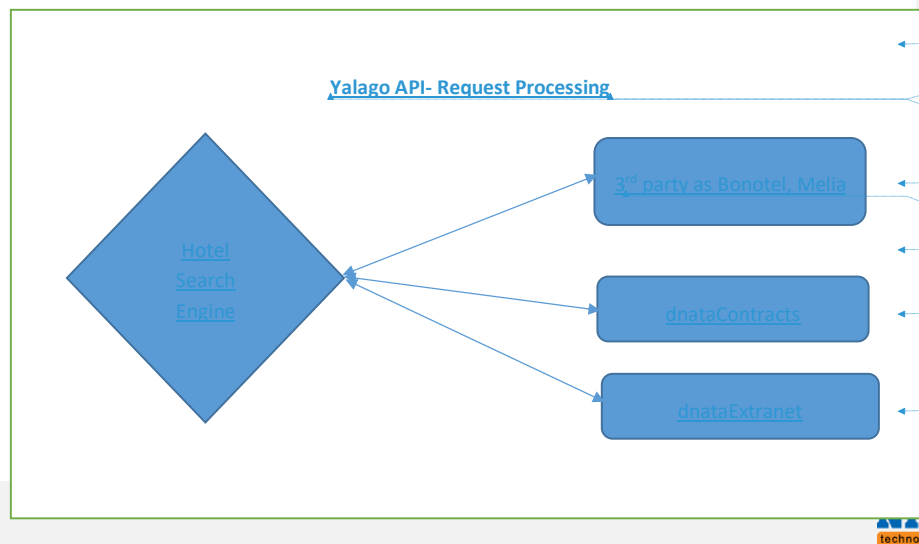
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2.1.2 Hotel Search Engine (Yalago API) workflow

In Yalago API, Hotel Search engine is the main component which is responsible to process the user request. So as request arrives here, it uses three type of sources to get the data, first is dnata contracts and second is dnata Extranet and third is 3rd party service provider. These sources return the data back to Hotel Search engine based on input parameters forwarded to them. Below is the diagram for typical Hotel Search Engine.



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Diagram 2

Diagram 2

After collecting data from 3rd party provider, dnataContracts and dnataExtranet, it applies certain business rules which further filters and sorts the result. And after filtering and sorting it returns the response to caller (i.e., Any website, B2B API).

2.1.3 Business Rules in Hotel Search Engine

There is provision to filter and sort the search result based on some defined and configurable business rules. Giving below few most important businesses rules and criteria.

2.1.3.1 Result Filter Criteria

1. Always give priority to dnata contracted service results.
2. There could be some trusted business partners as 3rd party provider. Their search result may take precedence sometimes.
3. Search result may contain "no availability of beds in some hotel", Those results will be filtered.

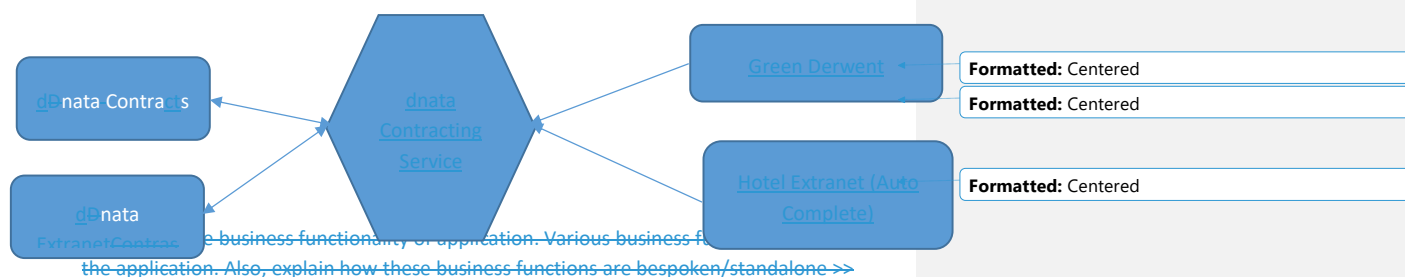
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2.1.3.2 Result Sort Criteria

1. The default sort order will be based on price from Low to High.
2. There could be some more sort options as based on popularity, or most relevant, or have some offer or coupon, But it need to confirm from business team.

2.1.4 dnataContracts, dnataExtranet and Contracting Service

Dnata has a dedicated team to find hotel suppliers and they can be further added in CGS system as business partner (business associates). They are added in system in direct contract category so their priority will be always high as business rule suggests. Below diagram shows the flow and behaviour of Contracting service.



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Diagram 3

Describe:

- key business processes, functions, data flows — ideally diagrammatically and relative criticality of differing functions
- user groups
- business rules
- critical business processes, periods and deadlines
- any known Client/Business Service Levels, eg batch to be completed by 06.30hrs, or file transfer to xxx by 02:00hrs mon-fri, or online availability — for information only
- periodic events
- business cycles, routines, peaks & troughs of activity
- bank holiday impacts/requirements

2.2 3rd Party API Clients

Yalago API is platform which provide access (internal/external client) to hotel/inventories. External client is also known as 3rd party clients. Yalago API (dnata) customers are the 3rd Party API Clients, who provide a platform (Yalago API) to access various hotels/inventories.

3rd Party API clients are the Yalago API (dnata) customers who integrate this platform (Yalago API) to get access of various hotels /inventory which are mapped with various supplier along with and dnata contracts. These client are also called as Affiliate clients.

- TravelRepublic.co.uk is an internal client for Yalago API (dnata).
- Arabian Adventures is an external client for Yalago API (dnata).

Integration/connectivity between affiliate client and Yalago API is done using XML/JSON provided by Yalago itself. Standard procedure for communication between Yalago API and application are XML/JSON/REST/SOAPs.

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3rd Party API Integration with Yalago API

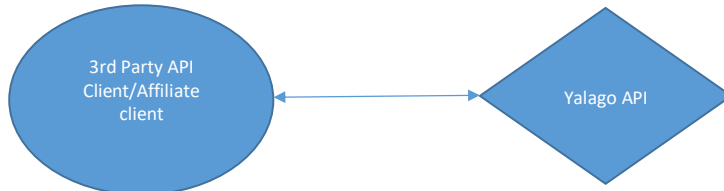


Diagram 4

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2.3 Yalago AutoBooker

Display

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2.4 Affiliate Extranets (Web Portal)

Affiliate extranet is a B2B portal. Dnata provides this portal for checking to the affiliate clients (3rd party API Clients) to check and validate search result from Yalago API. It is a Web Portal for the Yalago API. Basically there are two type of users:

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- **Internal User's:**

Internal users are known as agents who have access of all suppliers and domains/branches.

- **External User's:**

These are client users (affiliate) who have access to their domains and branches. They can validate the Yalago API result. Also they can get more details from the API data.

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- **Client's:**

Yalago API consumers are called clients/ Affiliate clients/ 3rd Party API Clients (eg. Travelrepublic.co.uk is a client for Yalago API).

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- **Domains/Branches:**

Domains/Branches are the an entity of any client. A client can have multiple domains (eg. Travelrepublic) and multiple sbranches (travelrepublic.co.uk, travelrepublic.com etc.).

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- **Supplier:**

Supplier provides the Hotels/Beds inventory. As we can see in the main workflow there are some supplier's names such as {HardRock, Hotel Beds V4 etc.}.

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Affiliate Extranet portal

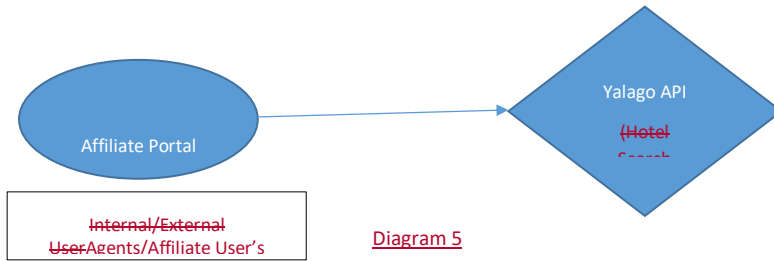


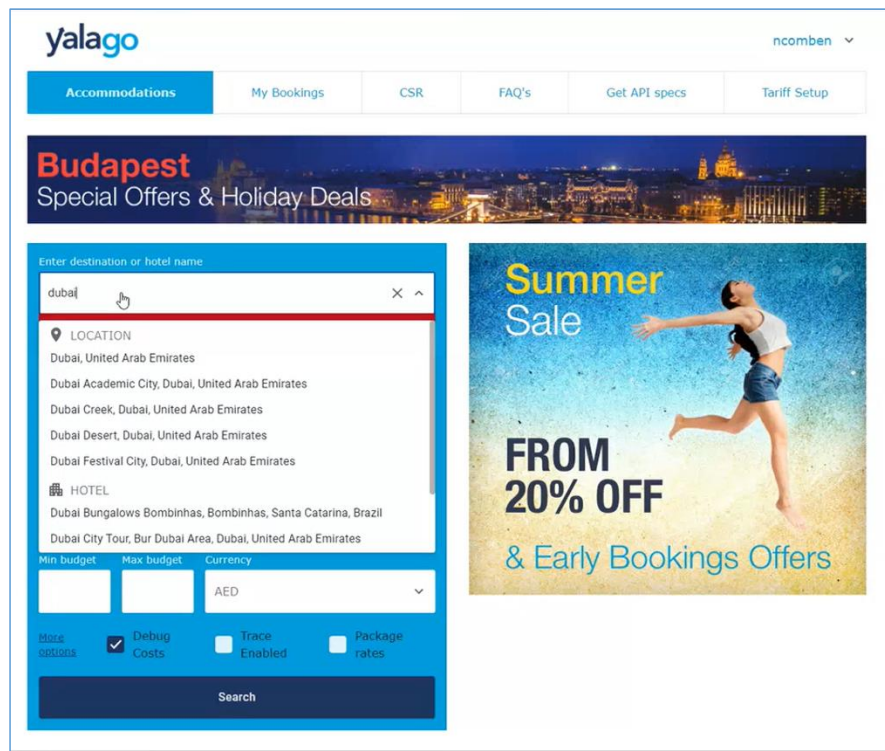
Diagram 5



This is the home screen of Yalago affiliate portal. There are relationships between destination, branch and supplier.

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Auto completer service is used for populating data in Destination, Branch and supplier dropdowns.



Budapest
Special Offers & Holiday Deals

Enter destination or hotel name
Amakhalala Safari Lodge, Amakhala Game Reserve, Eas... X v

From 12/06/2021 Nights 3 To 15/06/2021

Guests
1 room, 2 adults

Branch travelrepublic.co.uk Supplier ALL

Min budget Max budget Currency

Debug Costs ☒ ☐

Search

- ☒ Genoo Provider
- ☒ Grafton
- ☒ HardRock
- ☒ HospitalityPlus
- ☒ HotelBeds V4
- ☒ Interhome V2

Summer Sale
FROM 20% OFF
& Early Bookings Offers

Manage my bookings

Search bookings SEARCH

pp affiliate.yalago.com/Availability/Search?searchkey=M5oXekkoTRIBc05EQITOUJowTVIRVd0xETTBVNFZnpfNU1tdz0Bnak13TERIM91EQXNNV5TUN3ME1URKGMSEwTRB05E... ☆ Other bookmarks Reading

Accommodations My Bookings CSR FAQ's Get API specs Tariff Setup

3 Nights, 12 June - 15 June 2021, 1 Room, 2 Adults [Change Search](#)


Hotels in Dubai, United Arab Emirates (301 properties found)

%

Sort by

Price (lowest first) ▾

Hotel name



Signature Inn Al Rigga ★★☆☆

Al Rigga Street Near Al Ghurair Mall Behind Kfc

Accessibility information is not available

RATES


Room Type	Room Only	Book
Double Or Twin Standard <small>HotelBeds V4</small>	<div> <div></div> <div></div> </div> <div> net €45 gross - + due at hotel 60 AED </div>	Book
Triple Deluxe <small>HotelBeds V4</small>	<div> <div></div> <div></div> </div> <div> net €48 gross - + due at hotel 60 AED </div>	
Quadruple Deluxe <small>HotelBeds V4</small>	<div> <div></div> <div></div> </div> <div> net €51 gross - + due at hotel 60 AED </div>	Book
Double Or Twin Deluxe <small>HotelBeds V4</small>	<div> <div></div> <div></div> </div> <div> net €66 gross - + due at hotel 60 AED </div>	

☐ Allow On Request rooms

Star rating

☐ ★★★★★
 ☐ ★★★★☆
 ☐ ★★★☆☆
 ☐ ★★☆☆☆
 ☐ ★☆☆☆☆
 ☐ ☆☆☆☆☆

[View less prices and board types](#)



Fortune Pearl ★★☆☆

134 Omar Bin Al Khattab Road, After Naif Signal, behind Al Baraha

Accessibility information is not available

Location



2.6 Auto completer

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It's a service, which suggests similar kind of data while entering data in input control in screen (eg. select destination, branch, supplier and etc.)

<<More details required>>

2.7 Purple Derwent (Web Portal)

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Purple Derwent is the main bed bank application. It is used by internal users. It holds all the business information related to bookings, customers, suppliers, etc. and is interfaced with other internal and external systems for the purpose of processing the bookings.

This portal is used to configure the mapping between Branch/domain and supplier. Based on the contract/agreement these mapping can be done from the dnata backend team.

Destination Supplier Mapping

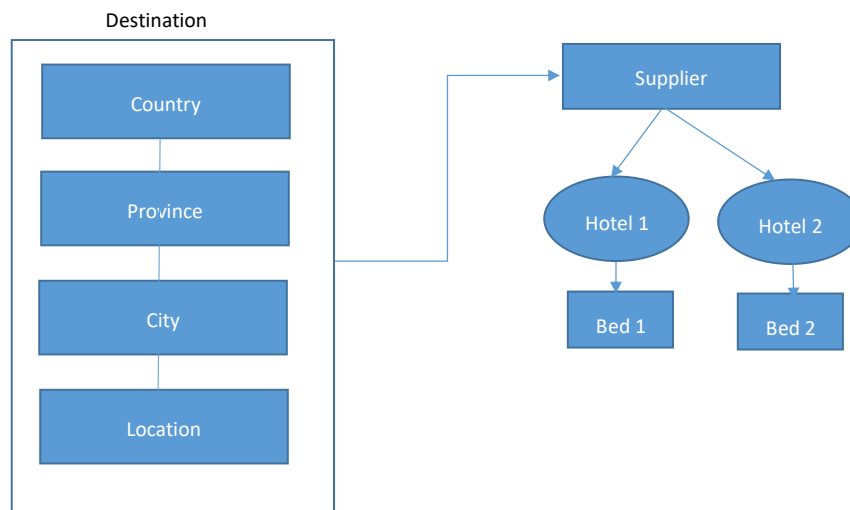


Diagram 7

- There is a relationship between destination, domain and supplier for clients.
- Destination connects with suppliers and supplier connects with clients.
- A client is just an account which has multiple domains called as branch.
- There is a supplier establishment ID which provide by the supplier, and establishment id provided by the dnata for the same.



- Based on the supplier and dnata contracts/agreements these mappings can be done from purple Derwent.
- Dnata back office user can restrict any supplier for any branch depending on the contract done between them.
- Supplier is an account and Provider is part of the Supplier. Supplier is the logical and Provider is the physical connection.
- Providers are the code bases which are mapped with to multiple supplier.
- ~~Supplier is an account and provider is part of the supplier. Supplier is logical and provider is physical.~~
- Most of the time Yalago API shows direct contract hotels. So that they can sell more associated beds. But direct contract doesn't cover the whole world so so thus Yalago API includes supplier based beds result. Dnata always prefers direct contract so that they can get more commission/benefit.
- Dnata gets commission from supplier and similarly dnata gives commission to clients. These are business contract relationships between dnata and supplier.
- There are two type of commission rates.
 - o Gross rates: Supplier specify gross rate on bed rates to yalago/dnata and in this rate supplier offer commissions to yalago/dnata (eg. Suppose supplier gives one hotel to the dnata @ \$150. Then he gives commission of 10% to dnata). Commission is already added in gross rates.
 - o Net Rates: In other option supplier specify the net rate on which they offer hotel to the dnata. Dnata can sell that hotel on any price on their portal above that net rate. Commission rate is already fixed basis on contract in Net Rats. <<More details required>>
- There are some restrictions, some clients might not have access to all the suppliers i.e (If a supplier has no beds on selected geo area then Client would not have that supplier access, which is maintained by the backend office).
- Yalago is responsible for Accommodation, Bookings, CSR, API specs.
- Establishment refer for hotels in purple Derwent.

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Domain/supplier relationship mapping can be configured from below screen.

Yalago - Derwent (BLT_PP)

01-June-2021 - Nathan Comben LON 10:59 AM BCN 11:59 AM DXB 1:59 PM BLR 3:29 PM CLRK 5:59 PM

Home | New Booking | Booking Search | Reports | Suppliers | Bookings Required | Clients | Accounts | Phone Book | Log Off

Supplier Domain Maintenance

Supplier Type:

Supplier's Name: Date From: To:

Points of Sale:

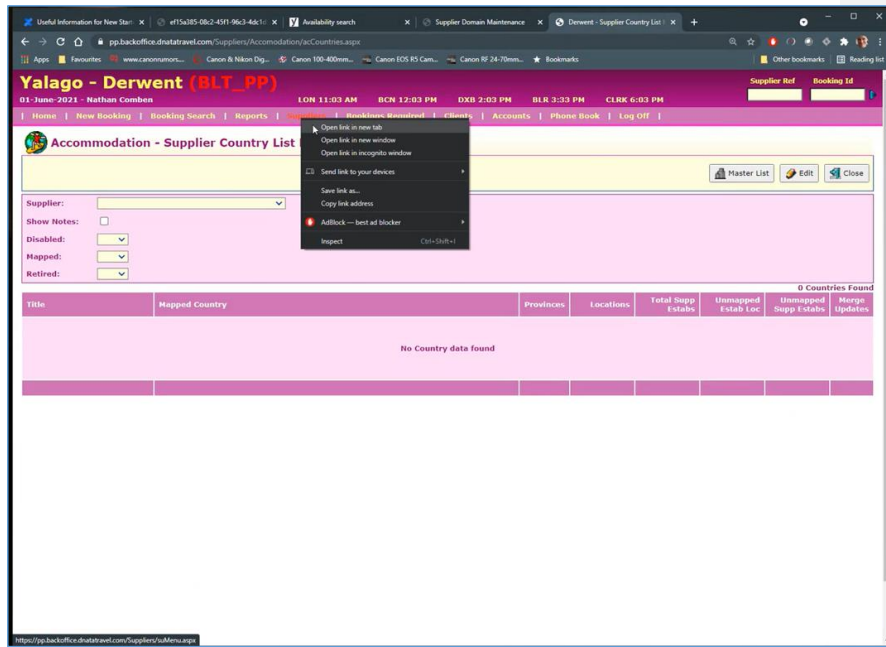
Supplier
Abacus Online
Altura Destination services
Amaci
American Tours International
Anantara
Attitude
Bapioni
Bonotel Exclusive Travel
Brooktels
Brunelleschi
Caesar
Camotels
Constancelhotels
Derbysoft V4 PHILL
Destinations Of The World V2
DideTravel
DIETHELM TRAVEL SRI LANKA

Please enter the reason for the update:

Please enter End date when you want to turn back Supplier(s)
Note: It will not turn back automatically.



Below screen will navigate to manage supplier option:



Yalago - Derwent (BLT_PP)

01 June 2021 - Nathan Comben

Home | New Booking | Booking Search | Reports | Accounts | Phone Book | Log Off

Accommodation - Supplier Country List

Supplier:

Show Notes: ☐

Disabled:

Mapped:

Retired:

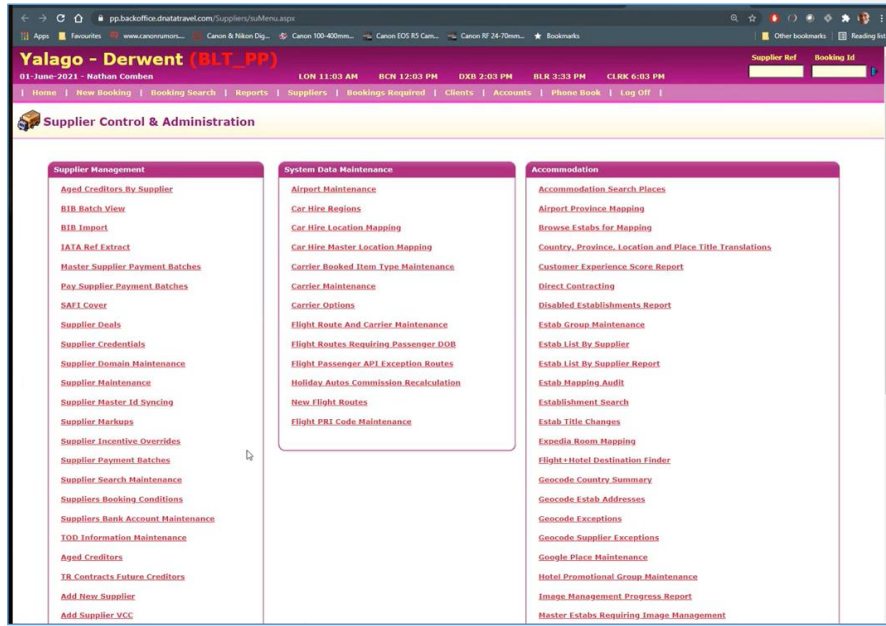
Master List | Edit | Close

Title	Mapped Country	Provinces	Locations	Total Supp Estabs	Unmapped Estab Loc	Unmapped Supp Estabs	Merge Updates
No Country data found							

0 Countries Found

Below screen refers for Dnata back office team dashboard. User can select supplier from below screen for mapping configuration.

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The screenshot displays the 'Supplier Control & Administration' dashboard. The interface is divided into three main columns: Supplier Management, System Data Maintenance, and Accommodation. The Supplier Management column lists various tasks such as 'Agent Creditors By Supplier', 'BIR Batch View', 'BIR Import', 'IATA Ref Extract', 'Master Supplier Payment Batches', 'Pay Supplier Payment Batches', 'SAFI Cover', 'Supplier Deals', 'Supplier Credentials', 'Supplier Domain Maintenance', 'Supplier Maintenance', 'Supplier Master Id Syncing', 'Supplier Markups', 'Supplier Incentive Overrides', 'Supplier Payment Batches', 'Supplier Search Maintenance', 'Suppliers Booking Conditions', 'Suppliers Bank Account Maintenance', 'TOD Information Maintenance', 'Agent Creditors', 'TR Contracts Future Creditors', 'Add New Supplier', and 'Add Supplier VCC'. The System Data Maintenance column includes 'Airport Maintenance', 'Car Hire Regions', 'Car Hire Location Mapping', 'Car Hire Master Location Mapping', 'Carrier Booked Item Type Maintenance', 'Carrier Maintenance', 'Carrier Options', 'Flight Route And Carrier Maintenance', 'Flight Routes Requiring Passenger DOB', 'Flight Passenger API Exception Routes', 'Holiday Autos Commission Recalculation', 'New Flight Routes', and 'Flight PRI Code Maintenance'. The Accommodation column lists 'Accommodation Search Places', 'Airport Province Mapping', 'Browse Establs for Mapping', 'Country, Province, Location and Place Title Translations', 'Customer Experience Score Report', 'Direct Contracting', 'Disabled Establishments Report', 'Estab Group Maintenance', 'Estab List By Supplier', 'Estab List By Supplier Report', 'Estab Mapping Audit', 'Establishment Search', 'Estab Title Changes', 'Expedia Room Mapping', 'Flight-Hotel Destination Finder', 'Geocode Country Summary', 'Geocode Estab Addresses', 'Geocode Exceptions', 'Geocode Supplier Exceptions', 'Google Place Maintenance', 'Hotel Promotional Group Maintenance', 'Image Management Progress Report', and 'Master Establs Requiring Image Management'.

Yalago - Derwent (BLT_PP)

01 June 2021 - Nathan Comben

Home | New Booking | Booking Search | Reports | Suppliers | Bookings Required | Clients | Accounts | Phone Book | Log Off

Supplier Domain Maintenance

Supplier Type:

Supplier's Name: Date From: To:

Points of Sale:

Supplier	TRP.co.uk
Abrax Online	<input checked="" type="checkbox"/>
Altura Destination services	<input checked="" type="checkbox"/>
Amari	<input checked="" type="checkbox"/>
American Tours International	<input checked="" type="checkbox"/>
Anantara	<input checked="" type="checkbox"/>
Attitude	<input checked="" type="checkbox"/>
Baglioni	<input checked="" type="checkbox"/>
Benetel Exclusive Travel	<input checked="" type="checkbox"/>
Brooktotele	<input checked="" type="checkbox"/>
Brunelleschi	<input checked="" type="checkbox"/>
Caesar	<input checked="" type="checkbox"/>
Comototel	<input checked="" type="checkbox"/>
ConstanceHotels	<input checked="" type="checkbox"/>
Derbysoft V4 FULL	<input checked="" type="checkbox"/>

Please enter the reason for the update:

Please enter End date when you want to turn back Supplier(s):

Note: It will not turn back automatically.

Yalago - Derwent (BLT_PP)

01 June 2021 - Nathan Comben

Home | New Booking | Booking Search | Reports | Suppliers | Bookings Required | Clients | Accounts | Phone Book | Log Off

Establishment Search

Close

Estab Id:

Supplier Estab Code:

Estab Title: ☐ (Search Words)

Category:

Accommodation Type:

Has TRP Summary:

Supplier:

Country:

Province:

Location:

Manual Image Management:

Moderation Required:

Disabled Estab:

1 hotel found

ID	Estab Title	Linked Estab	Master Estab	Is Master	Address	Supplier	Open shops
232187	Signature Inn Al Rigga	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Al Rigga Street near Al Ghurair Mall Behind KFC DUBAI	United Arab Emirates Dubai Deira	Master



In this screen, User can filter any supplier establishment. This list contains all of the address of the selected supplier. **Green list means live property and red list means property is retired.**

<<More details required>>

Yalago - Derwent (BLT_PP)

01-June-2021 - Nathan Comben

Home | New Booking | Booking Search | Reports | Suppliers | Bookings Required | Clients | Accounts | Phone Book | Log Off

Accommodation - Supplier Establishment List

Supplier: **Exo Travel Cambodia**
 Country: **Cambodia**
 Disabled: **No**
 Mapped: **No**
 Retired: **No**

71 Establishments Found

Country	Province	Location	Supplier Estab Id	Estab Id	Title	Address	Mapping Province	Last Updated	Mapped To Master	Merge Update
Cambodia	Battambang	Battambang	BAHBM	14688071	Ramhi Battambang Hotel	KO Street, Phum Ronchek 5, Sangkat Ratanak, Battambang City, , Battambang, Cambodia, View		14-Apr-20		
Cambodia	Battambang	Battambang	BAHBM	14688374	Ramhi Battambang Hotel	KO Street, Phum Ronchek 5, Sangkat Ratanak, Battambang City, , Battambang, Cambodia, View		14-Apr-20		
Cambodia	Battambang	Battambang	BATBM	14688372	Battambang Resort	Wat Ko Village, Battambang City, , Battambang, Cambodia, View		14-Apr-20		
Cambodia	Battambang	Battambang	BATBM	14688064	Battambang Resort	Wat Ko Village, Battambang City, , Battambang, Cambodia, View		14-Apr-20		
Cambodia	Battambang	Battambang	CLABM	14688072	Classy Hotel & Spa	#1590, Street 207, Phum Ronchek 4, Sangkat Ratanak, Battambang City, Battambang Province, , Battambang, Cambodia, View		14-Apr-20		
Cambodia	Battambang	Battambang	CLABM	14688373	Classy Hotel & Spa	#1590, Street 207, Phum Ronchek 4, Sangkat Ratanak, Battambang City, Battambang Province, , Battambang, Cambodia, View		14-Apr-20		
Cambodia	Battambang	Battambang	HWKBM	14688375	Maisons Wat Kor Resort	St. 800 (Sangke River), Wat Kor Village, Battambang, , Battambang, Cambodia, View		14-Apr-20		
Cambodia	Battambang	Battambang	HWKBM	14688070	Maisons Wat Kor Resort	St. 800 (Sangke River), Wat Kor Village, Battambang, , Battambang, Cambodia, View		14-Apr-20		
Cambodia	Kampong Thom	Kampong Thom	GLOKZK	8583725	Glorious Hotel & Spa	National Rd 6, Phum Balang Khang Lech, Sangkat Damrei Chon Khla, Krong Strong Saen, , Kampong Thom, Cambodia, View	Kampong Thom	14-Apr-20		
Cambodia	Kampot	Kampot	RKKPT	7418009	Rikikikivi Hotel	Riverside Road, Kampot, Cambodia, View		15-Sep-16		
Cambodia	Koh Kong	Koh Kong	4RVKZK	14688066	4 Rivers Floating Lodge	Behind Koh Amdet, Dong Village, Tatal Commu, Koh Kong, , Koh Kong, Cambodia, View		14-Apr-20		
Cambodia	Koh Kong	Koh Kong	4RVKZK	14688382	4 Rivers Floating Lodge	Behind Koh Amdet, Dong Village, Tatal Commu, Koh Kong, , Koh Kong, Cambodia, View		14-Apr-20		
Cambodia	Monduliri	Monduliri	HAYHVV	7418029	Mayura Hill Hotel & Resort	San Monnom City, , Monduliri, Cambodia, View	Kampong	15-Sep-16		
Cambodia	Monduliri	Monduliri	HAYHVV	7418011	Nature Lodge	Chamker Tai Vio, Spona Muechey Cam, San Monnom City, , Monduliri, Cambodia, View		15-Sep-16		
Cambodia	Phnom Penh	Phnom Penh	FVPMH	7418027	Eraginani Villa 903	No 21, Street 71, Boonay Kong Kamp L, Chamkeram, , Phnom Penh, Cambodia, View	Phnom Penh	15-Sep-16		
Cambodia	Phnom Penh	Phnom Penh	CMKPMH	7438255	C Mekong Hotel	No 416, Boonay Wad, , Phnom Penh, Cambodia, View	Phnom Penh	15-Sep-16		

Yalago - Derwent (BLT_PP)

01-June-2021 - Nathan Comben

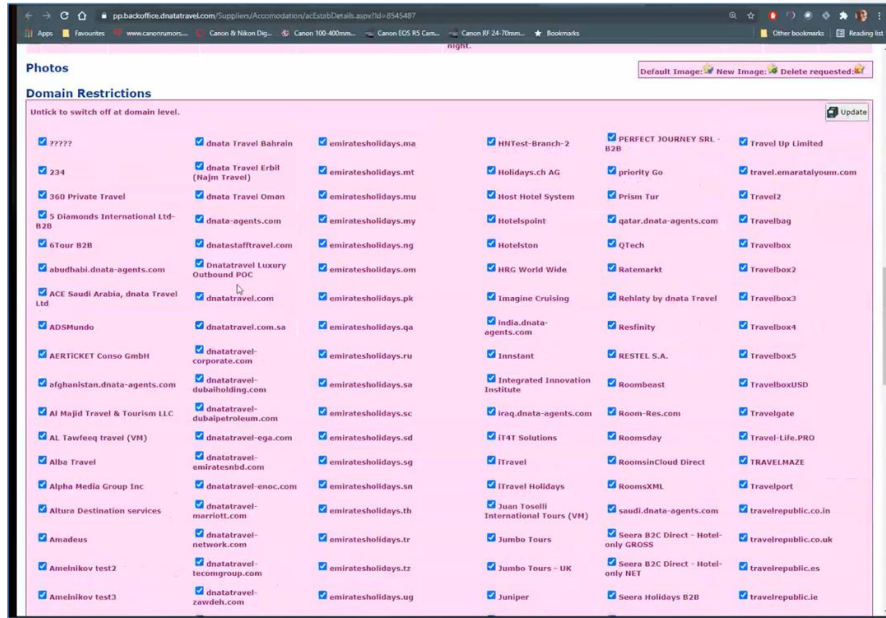
Home | New Booking | Booking Search | Reports | Suppliers | Bookings Required | Clients | Accounts | Phone Book | Log Off

Accommodation - Supplier Establishment Details

Audit | Add Note | Disable | Update Master Photos | Update Master | Update Details | Reset Mst Link | Close

Estab Id:	8545487	Mapped Country:	BARBADOS	Accommodation Type:	Hotel
Name:	Radisson Aquatica Resort Barbados	Country:	Barbados	Category:	
Address:	Aquatic Gap, Carlisle Bay, Bridgetown	Province:	Barbados	Weighting:	0
		Location:	Aquatic Gap	Mapped By:	
		Disabled:	<input checked="" type="checkbox"/>		
		Retired:	<input checked="" type="checkbox"/>		
Post Code:	POBOX 639	Supplier:	dnata.Contract.Hotels	Master Estab:	Radisson Aquatica Resort Barbados
Phone:	459900	Supplier Estab Code:	8545487	Estab Groups:	
Fax:	462978	Last Updated:		Contracted Estab Details:	Radisson Aquatica Resort Barbados
		Merge Required:	<input checked="" type="checkbox"/>	OF code:	
		Accuracy:	0		
Email:	test@travelpublic.co.uk	Latitude/Longitude:	13.082781/-59.608641		
Website:	http://www.radisson.com/st-michael-hotel-bb/bb1b1b1b				
Corporate Pay:					
Room Subtext:	<p>Summary:</p> <p>Property Location Radisson Aquatica Resort Barbados is minutes from Bridgetown, walking distance from George Washington House and Garrison Savannah. This beach resort is within close proximity of Needhams Point and Barbados Museum and Historical Society. Rooms have private balconies. Complimentary wireless Internet access keeps you connected, and cable programming is available for your entertainment. Private bathrooms with shower/tub combinations feature designer toiletries and complimentary toiletries. Psc, Spa, Premium Amenities Be sure to enjoy recreational amenities including an outdoor pool and a 24-hour fitness center. Additional amenities at this Art Deco resort include complimentary wireless Internet access, babysitting/childcare (surcharge), and gift shops/stands.</p>				
Description:	<p>Property Location Radisson Aquatica Resort Barbados is minutes from Bridgetown, walking distance from George Washington House and Garrison Savannah. This beach resort is within close proximity of Needhams Point and Barbados Museum and Historical Society.</p>				

This screen contains all the domain/branch associated with the supplier. User can restrict any domain for selected supplier.





Ratemarket is a client who havehas access of below supplier hotel/beds.

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pp:affiliates.backoffice.datatravel.com/Client/Client/7005

Yalago Derwent

Home | New Booking | Booking Search | Suppliers | Bookings Required | Clients | Accounts | Markups | Landing | Admin | API Tools | Data Files | Oracle Finance | Supplier Setup | Reporting | Log off

Client - Ratemarket

Oracle Finance Configuration | Search Portal Users | Save | Close

Branches

ID	Name	Default Currency Code	B2B / B2C	Active	Contact Email	Ops Email	Enable Establish Info	API Keys Options	View IP Whitelist
5299	Ratemarket	<input type="text" value="EUR"/>	<input type="text" value="B2B"/>	<input checked="" type="checkbox"/>	<input type="text" value="kadi@ratemarket.com"/>	<input type="text" value="kadi@ratemarket.com"/>	<input type="checkbox"/>	<input type="button" value="View API Keys"/>	<input type="button" value="View IP Whitelist"/>

Currencies

ID	Currency	Credit Limit	Credit Available	Commission Share	Active	Date From Booking	Date To Booking	Date From Arrival	Date To Arrival	Invoice Point
359	EUR	<input type="text" value="1,000,000.00"/>	998,037.62	<input type="text" value="100.00"/>	<input checked="" type="checkbox"/>	<input type="text" value="02/01/2018"/>	<input type="text"/>	<input type="text" value="02/01/2018"/>	<input type="text"/>	<input type="text" value="[-14] [0] days from check in"/>
360	USD	<input type="text" value="1,000,000.00"/>	997,579.89	<input type="text" value="100.00"/>	<input checked="" type="checkbox"/>	<input type="text" value="02/01/2018"/>	<input type="text"/>	<input type="text" value="02/01/2018"/>	<input type="text"/>	<input type="text" value="[-14] [0] days from check in"/>
361	GBP	<input type="text" value="1,000,000.00"/>	1,000,000.00	<input type="text" value="100.00"/>	<input checked="" type="checkbox"/>	<input type="text" value="02/01/2018"/>	<input type="text"/>	<input type="text" value="02/01/2018"/>	<input type="text"/>	<input type="text" value="[-14] [0] days from check in"/>

Map Client to the Client Group

Active only | Map to Client Group

Date From	Client Group
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Related Suppliers (i.e. who are the same company as this Client, so searches for the Client shouldn't call off to the supplier). To enable suppliers for this client, click here

Supplier	Active	Enabled for any branches?
Abreu Online	<input type="checkbox"/>	No
Altura Destination services	<input type="checkbox"/>	No
Aman	<input type="checkbox"/>	No
American Tours International	<input type="checkbox"/>	No
Anantara	<input type="checkbox"/>	No
Altitude	<input type="checkbox"/>	No
Baglioni	<input type="checkbox"/>	No
Bondel Exclusive Travel	<input type="checkbox"/>	No
Boutique	<input type="checkbox"/>	No



2.9 Green Derwent

All the agreement/contracts between hotel and dnata are managed in this portal by dnata backend user. Hotel Content/Images are also managed from this portal.

<<More details required>>

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2.10 Contracting service

<<More details required>>

2.11 Dnata Contracts

dnata contracts are the contracts where inventory is loaded in Derwent.

<<More details required>>

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2.12 Dnata Extranets

Extranet contracts are the contracts where inventory is managed by supplier through a dedicated portal.

<<More details required>>

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2.13 Hotel Extranet

<<More details required>>

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2-22.14 Processing Description

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Describe in application terms how the processing is carried out

2-32.15 Users of System

<This section should list the departments using the system, the approximate number of users and where they are based (e.g. 100 LDC call operators at Sheffield Call centre, 4 administrators at each of 16 LDCs). It should also list key expert users by name with detail on their expertise e.g. John Smith – the main administrator for the system, who understands its functionality very well indeed.>

<e.g.>

Business Unit	No. of User	Criticality	User Location
US	10	High	California
Canada	5	Med	Canada
American Customer Care	33	Low	US Call Centers (PA & Philippines)
People Support & Resolve	43	Med	RDC Call Centers (Canada & Philippines)

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2-42.16 Hours of Operations and Usage

<When are the hours that this system is operated and what is the timetable of use. For example, the system may be operated 24/7, with the online business day of 7am to 7pm Monday to Friday and with batch jobs running from 7pm weekdays and at weekends.>

Support Location	Support Hours		Emergency Support Mode
	Weekdays(Mon-Fri)	Weekends(Sat-Sun)	
US	Mon-Fri	8am - 11pm EST	On Call
India	Mon-Fri	9am - 6pm IST	On Call

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2-52.17 Criticality of the System

<This section defines the criticality of the system to the Business. Is it defined as Mission Critical or Business Critical? >

2-62.18 Implications if the System is not available

<This explains the impact on the business if this system is not available.>

Business Units Impacted	Remarks
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3 Application Architecture

CSG system has built in multiple parts unlike limited to single application. Hotel booking engine is one of the prominent parts of CSG system and play very vital role to book hotel. It receives the data receive the data from multiple sources and provide input to Hotel Providers then after hotel provider send back the available inventories to Hotel Booking Engine.

Below are application/API which provide data to Hotel Search Engine to room from available inventory of Hotel's Providers.

- [Yalago Auto Booker](#)
- [Yalago API](#)
- [Affiliate Extranet](#)
- [Purple Derwent](#)

Below are applications (providers) which receive data form Hotel Search Engine to return available inventory.

- [Bonotel](#)
- [Melia](#)
- [Jumeirah](#)

~~Provide a high level overview of the application architecture, including key application interfaces and key processing elements of the application eg batch, online, real time~~

~~Describe as relevant~~

- ~~outline system specification/requirements~~
- ~~applications system structure~~
- ~~system flow chart(s)~~
- ~~functionality for key/critical modules~~
- ~~system limitations~~
- ~~system location~~

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3.1 Deployment - Physical Data Model

Describe as relevant

- physical data models
- data structures/tables & definitions
- database/files & limitations
- transaction/data volumes
- capacity planning predictions
- reference data
- parameters, flags
- business ownership of data items
- data management requirements, including BAU data adjusts
- data manipulation tools

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3.2 Data Flow

3.3 Programs

Describe as relevant

- Program documentation – focus on critical, complex, volatile areas
- Online applications
- Batch processing
- Data extracts
- Interfaces, inputs & outputs
- Cross-reference of jobs, programs, files/data, screens, reports for ease of reference & impact analysis

3.4 Online Screens

Describe as relevant

- Screen layouts
- Validation
- Security
- Transaction response times

3.5 Reports

Describe as relevant

- Report layouts
- Key reports, including deadlines
- Ad-hoc reports

3.6 Interfaces

Describe as relevant key application interfaces eg timings, type, dependencies, interface definition (layouts). Identify any interfaces between this system and other systems and define the type and frequency of any transactions over these interfaces. Indicate any inter-dependencies with other systems and, where possible the effect on this and other systems of any failure of these interfaces

3.6.1 External Interfaces (to 3rd Parties)

3.6.2 Internal Interfaces

3.7 Common Components and Frameworks

Identify any common software components used, particularly those that are currently mandated for use i.e. Reference Service, Logging Service, Exception Management and Security Service.

3.8 Third Party Components

If used, identify any 3rd party software components.



4 Physical (Deployment) Architecture

4.1 Software used - Versions and Licenses

4.2 Infrastructure Architecture Overview

This section should contain an overview of the infrastructure that the system requires to operate. It should outline how the system being designed utilises the infrastructure, such as which software components for the systems will be deployed on which hardware components.

4.3 Application URL and Namespaces

Where an application has its own URL this section must specify the URL to be used in the live environment.

4.4 Infrastructure Architecture Configuration

This section should contain a Network Topology Diagram detailing the various physical or logical arrangements of the infrastructure. It should include elements such as firewalls, routers, bridges, hubs, Internet Servers, Database Servers, Middle Tier Component Servers, Application Servers, Storage Devices and Backup Devices, which together form the underpinning infrastructure for the systems.



5 Technical Environments

5.1 Operational/Production Environments

Listing below major technology used in CGS System.

- [Dot Net Framework 4.7.2](#)
- [C#](#)
- [VB.NET](#)
- [Dot Net Standard 2.0](#)
- [Dot Net Core 3.1](#)
- [Web Forms ASP.Net](#)
- [jQuery](#)
- [Angular 2](#)
- [JavaScript](#)
- [React](#)
- [Rabbit MQ](#)
- [Redis](#)
- [SQL Server](#)
- [Scheduling systems](#)
- [Microsoft Reporting Services](#)
- [AmazonS3](#)
- [Azure App Service](#)

Inventory of environments used & who owns them. Provide a high-level overview of the technical architecture eg hardware & location, operating system, platforms and programming languages

5.2 Test Environments

Include testing strategy, data/beds, scripts, and tools for unit/link/system/integration/regression.

Include instructions on

- Requesting use of a test environment
- moving code between environments, or changing code in an environment to a new baseline
- recording and controlling which project has use of which environment in which timeframe
- resolving conflicts when there are more projects requiring an environment than there are environments available
- recovering test environments from an archive, protecting them from being archived, or reconstructing environments if they cannot be successfully recovered from archive.

Name the NIIT individual who is the owner of each environment, when responsibility lies with NIIT.

When responsibility for the environment is with Client or a Third Party, name the owner organisation and the NIIT individual who is responsible for requesting use of, and specifying who can have access to, the environment.

Where there is no test environment, document reasons why, and any agreements with the client which protect the service despite the lack of a test environment.



What differences between production and (development/ test) environments exist; what risks have been identified and what impact would they have.

5.3 Development Environments

Inventory of development environments used.

5.4 Tools and Techniques

Consider information useful to new starters, such as how to change code, compile, extract data from a file, recreate corrupt data, run a job using live data, data loads, backups, restores etc.

5.5 Routine Maintenance, Monitoring & Housekeeping

Describe any activities NIIT (or other service providers) responsible eg daily/weekly checks or monitoring of batch jobs, data including

- Activity
- Frequency &
- Limits/checks required within activity
- Role/team responsible for undertaking activity
- Escalation – roles & timescales
- Effort required
- Logs used to evidence monitoring & access



6 Development & Testing

6.1 Overview

Function	Name	IP Address	Location
Development Server			
Deployment Server			
Staging Web Server			
Staging Database Server			
Live Web Server			
Live Database Server			

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6.2 Source Code Libraries

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6.3 Code Release Procedures

We will follow the same code release procedure as we do for other Internet applications. For reference please follow Intranet release process on WIKI

6.4 Testing procedures



7 Configuration & Release Procedure

7.1 Configuration Management Plan/Manager

Refer to relevant Service Configuration Management Plan or to relevant local Configuration Management Plan.

If there is no local Configuration Management Plan, document local variations to the Plan in the areas of:-

- Baselining
- Access Control
- Status Accounting and Reporting
- Housekeeping and Archiving
- Use of tools other than Endeavor for mainframe code, and Perforce for all other configurable items (CIs)
- Which non-code items are treated as CIs.

Identify relevant configuration manager and any local configuration role/responsibilities

7.2 Configuration Items and Naming Conventions

If there is no local Configuration Management Plan:-

- List all types of code CIs used by the application, with reference to where each is held on the Configuration Management System.
- Define any naming conventions specific to this application any in addition to the NIIT Document Naming and Version Standards, including environments, software, data and libraries.
- Where NIIT has custodial authority only of Third Party code, and where this is only supplied as object code on disks or other magnetic media, detail the location where this material is safely stored.

7.3 Configuration Details

Reference/link to Configuration form (as controlled & managed by the Environments' Management team) for this application

7.4 Release Management

Detail any release build and deployment instructions, scripts or notes specific to this application.



8 Deployment Procedures

8.1 Steps

8.2 Special Instructions



9 Application Support & Maintenance Processes & Procedures

This section should consider application and infrastructure aspects required to enable effective and timely support of the solution by the NIIT application support team. This section is where the NIIT support team need to document the access they require to effectively support the application once it is installed in the live environment. It is then used by Fujitsu to determine the configuration of the NIIT support accounts to provide the support access requested here. This section is generally completed immediately prior to deploying a new application into the live environment, however where the application is being installed on shared infrastructure that already exists this section should be completed sufficiently in advance of that deployment to allow Fujitsu to review and configure the support accounts in advance.

List the processes which will need to be elaborated in the maintenance manuals

Refer to the SMP for service levels etc.

Refer also to the policies

9.1 Support Users and Groups & Access Required

Detail any special access users or Active Directory groupings required.

Specific Server Support Requirements

For each server...

General Management Tools	Required	Details
Computer Management		
Component Services		
Event Viewer		
Performance Monitor		

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Internet Services Manager	Req	Details
Web Sites		list all with access requirements
Virtual Directories		
FTP		
Restart		

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File System access	Req	Details
Disk Folders	Y/N	

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Shares	Y/N	

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Other System Access	Req	Details
Registry Keys	Y/N	Identify all we need to insert/edit with values
System Services	Y/N	Identify all we may need to stop/start
Database Connections	Y/N	Identify with type (Oracle/SQL), db name, username, password, etc.

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Applications	Req	Details
Databases e.g. SQL Server	Y/N	Identify all databases we need with access requirements

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9.2 Operations Calendar (Daily, Weekly, Monthly, Quarterly, Annual, Adhoc Activities)

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9.3 User Management

Description of how various types of users work with this application

9.3.1 Application Users

9.3.2 Technical Users (IT & Support Staff)

9.4 Purging & Archiving of Data

How growing data and log files are to be handled

9.4.1 Log Files

9.4.2 Data Files

9.5 Job Scheduling & Tools

<Mention job names, purpose, frequency>

< This section describes job support and details the tools used to support the system>

<There are no externally scheduled jobs for this system>

<Tool 1



<define the objective of the tool and explain what information the tool provides>

provide licensing information on the tool, if relevant

Provide vendor information if applicable

Provide login information to the tools, if required, and details of how to use the tools.

Tool 2>

9.6 Backup and Recovery Procedures

9.6.1 Backup Schedule

<If the system is restarted how should any lost data recovered, if applicable >

9.7 Outage of Application

9.7.1 Organisation & Checklist for a Planned Outage

9.7.2 Impact of Shutdown of This Application

9.7.3 Impact of Shutdown of Interfacing System to this Application

9.8 Common/Known Problems and Solutions

Describe any common or known problems (including the Problem Record ref number for the corresponding raised/outstanding PIR logged with Problem Management) with known workaround instructions or any hints and tips for handling incidents/problems.

9.9 Known Limitations

9.9.1 Known Functional Limitations

9.9.2 Known Technical Limitations

9.9.3 Known Capacity / Availability Related Limitations

9.10 Application Support Processes

9.10.1 Incident Management

Details required only if not covered in Service Management Plan or elsewhere

9.10.2 Problem Management

Details required only if not covered in Service Management Plan or elsewhere

9.10.3 Configuration Management

Details required only if not covered in Service Management Plan or elsewhere

9.10.4 Change Management

Details required only if not covered in Service Management Plan or elsewhere



9.11 Shift Handover Process

<If shifts do not exist, then use

The system is supported during UK business hours. There is only one team supporting the system. Beyond UK business hours, on call support will be provided for P1 incidents. >

- <If shifts exist, then use
- <Document shift timings>
- Outgoing team lead will provide updates to incoming team on
- Current status of active incidents. (Irrespective of shift change, team currently handling P1s will resolve them)
- The day's Incident handling strategies
- Incident volumes
- Details of interfacing communications with stakeholders – service desk, development team, business users, CEMC, MIM teams >



10 IT Service Continuity

Identify any security, back-up and/or recovery arrangements and responsibilities specific to this application.

- Who and how evoked
- Targets for recovery of service
- BCP running targets (availability)
- Full flow processes for recovery of each piece or architecture
- Each part of the process, and the overall BCP process, should have an owner (team)
- It should show how the process is co-ordinated (i.e. Client Project manager?)
- Who manages the test schedule and what is it.
- Who owns the backup strategy and how is it implemented and audited (Tape, XRC,)
- Who owns the BCP risk process and have risks been raised and are they audited.



11 System Documentation

Include reference to any coding standards, technical guidelines/manuals, work instructions, checklists, tool guides (eg ServiceCenter, Redbox) - including reference/link to location of this documentation.

Show as much path as possible rather than 'hidden' path within text of document name only.

These items should all be in the CI index for this application, or else in the CI index for a related area (ie a Technology-wide area)

Document name	Document purpose	Version (if not part of doc name)	Location (or, if confidential, person/ team/ mailbox via whom access can be obtained)

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12 References

Table below should contain information related to following areas:

- Reference document
- Client specific document
- Documents from a related application

Document Name	Description	Location	Version