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Document History

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Phase	Status	Date Last Modified

Change Log

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Date of Change	Versieu	Paragraph Changed	Successory of Changes
2013.10.03	1.0		First draft
2013.11.04	2.0	Businees Fariners View	
2014.01.13	2.1	Overall	Change the opinion of Japan
2014.01.22	2.2	Overali	Change the opinion of INDIA
2014.02.14	25	1. Preamble 2.GBJECT	South Korea to the world of limited scope modification

1.Preamble

As travel, tourism and leisure (TT&L) industry has grown worldwide, inbound and outbound travel agencies have developed their own travel information system to attract more tourists. However, information provided by different travel agencies is often non-standard and available only in a limited number of languages. Moreover, such system systems are redundant, thereby causing unnecessary costs as a whole. These issues have led necessity of establishing a standardized travel information system.

The lack of consolidated standards of travel information has prevented tourists from accessing to desired information. Specifically, tourists often experience difficulty finding accurate locations of attractions when it is a common name for a place or called by a generic name. For example, the name of an area in Korea, "Myeong-dong" is used in multiple entities such as restaurants, coffee shops and lodging facilities. A famous shopping site "Namdaemun market" is commonly called simply "Namdaemun" while "Namdaemun" itself refers to one of historic gates near the market. These non-standardized location names make it even difficult for travel agencies in overseas to collect accurate information. Furthermore, this problem can be a potential obstacle to prompting TT&L industry in the country.

Another issue is redundant investment in developing travel information systems. Online travel agencies have rapidly grown up as individual tourists increase. Online travel agencies process raw information in the form of online content and, based on them, provide new reservation services or local information. In particular, location information services are heavily used in travel planning or comparing prices. However, a number of companies have invested tremendous amount of resources in establishing their own location information systems. As a result, this has caused waste of resources in society as a whole.

In order to address this ineffectiveness and inefficiency, we propose a standardized information system, Destination Travel Information (DTI). We expect that this system is useful not only for TT&L industry but also, as a tourism infrastructure for e-commerce, other industry sectors linked with the common aim of serving the travel needs of tourists. For example, geographic information in the system is used for pinpointing the exact location using the latitude and longitude lines. This can be utilized for the identification Point Of Interest (POI), navigation and location-based storytelling as well.

2.References

- 1. UN/CEFACT -ebXML Core Components Technical Specifications version 2.01 ISO 1500-5
- 2. UN/CEFACT Business Requirements Specification version 1.5 (CEFACT/ICG/005)
- 3. Unified Modelling Language (UML version 1.4)
- 4. UN/CEFACT CC Library version 2.0 & 3.0
- 5. eb-XML TR-Naming Convention for Core Components version 1.04 (10 May 2001)
- 6. B2B E-Commerce for the National Tourism Industry Standardization (2009, MCST) *Written in Korean
- 7. 2. A study on the Information Technology Architecture of Travel Business Process system(KITA,2004)

3.Objective

This document is to provide a guideline to establish DTI, which aims to bring an opportunity to promote and foster tourist attractions of each country through more convenient and accurate information exchange.

This document clarifies the usability of the information by explaining the structure of DTI as well as the standards to determine and classify the data. The structure and the flow of information exchange between providers and users of the information will be illustrated later in this document. In addition, this document suggests a basic guideline for service suppliers that use DTI to create a new business model.

This document is based on planning phase of individual travelers who do not purchase package tour items. The planning phase consists of broad information collection, location choice, detailed information research, scheduling, budgeting, reservation and payment, departure and arrival and writing a review. This document illustrates and analyzes service models for the travel planning via DTI. For example, when collecting information for a specific place, a traveler can find its historical and current name of the place, and distinguish two different names of the same place, if any. Virtual tour, which enables travelers to virtually experience their travel plan, can also be available through the use of DTI.

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

4. Scope

4.1. Description

This document targets TT&L industry. However, it can be utilized by any industry interested in doing business in tourism or other related areas (e.g. hotels and restaurants), individuals or organizations.

4.2. Contexts

Categories	Description and Values
Categories	Description and Values
Business process	Destination Travel Information
Product classification	In all content
Industry classification	TT&L industry
Geopolitical	global
Official constraint	none
Business process role	In all content
Supporting role	In all content
System capabilities	In all content

TT&L industry involved with multiple parties, for example, government administrators, service providers, travel agencies and customers. In perspective of information access in the DTI system, they can be divided into two groups; information providers and users.

Information providers are again divided into public and private sectors. Their roles are registering data such as geographic standards or business information into the DTI system. On the other hand, information users utilize it in various ways. For example, service suppliers (e.g. travel agencies) can deliver the information directly to customers or process it to develop new service items. Since service suppliers receive feedbacks or reviews (e.g. POI, navigation or storytelling) from customers, they also can play a role as information providers.

5. Business Requirements Elaboration

This document specifies a list of attributes suggested by information users to implement DTI and/ or provide services. This document also defines a number of communication processes to integrate requested conditions and attributes.

5.1. Business Requirements Lists

Business requirement statements and corresponding transaction names are described based on the needs analysis of business models that utilize DTI.

Number	Business Requirement Statement	Business Transaction name for this Req.
Ā.1	User-friendly search service that provides reliable information of certain countries and/or cities	Conditional search
A.2	An automatic information extraction feature that allows users to use an image file to find a geographical coordinates and/or to find pictures taken in searched area	Location information collection (Automatic Information Extraction Feature)
A.3	A video that records and tracks travel routes which allow users multiple position and courses trajectory	Multiple position Registration
A.4	-Location information specified by its longitude and latitude coordinates	Registration management

Number	Business Requirement Statement	Business Transaction name for this Req.
A.5	 The information is up to date and each location cannot be registered with multiple names A service that captures 	
	certain area by connecting pictures taken in different locations • Users can search and register the information about captured area	specitfifition)
A.6	Public transportation navigation service to find directions for transit routing	Public transportation information t
A.7	A service that distinguishes a geographical area and an accessible route of an airport	Schedule planning, Route planning
A.8	Prescribed classification codes that enables travelers to find description and price ranges of food and/or a specific restaurant	Restaurant business codification
A.9	DTI requires predetermined classification codes for the accommodations information providers with the rates of amenities and accommodations	Category Registration
A.10	-A public entity can certify the registered data and establish standards Need to define a standardized of SOPs -The standard helps FIT and travel agencies gathering tour information by clarifying the categories of the information	Information Search Registration
A.11	DTI allows authorized private sectors to commercialize and recreate DTI with minimal registration process	Information Registration
A.12	DTI users do not have restrictions on access across the nations Users of any country can have an access to different country's DTI with minimal registration process	User Registration

Data Requirement Statement Template

In order to construct a destination information system, a solid standard is required to classify the accumulated data in addition to the fundamental location data. Figure 4 details the classification categories to manage and reflect the continual change of data more effectively.

Number	Data Requirement Statement
B.1	Basic information collection (name, description, contact information, official website and business hours) Reliable and credible information to be certified by the government
B.2	Longitude/latitude, observation angle, distance and direction
B.3	Registration record management time, on-site POI media registration time
B.4	Official name of attraction and the classification standards Classification categories example: Continent/Country/Region/City or State

Number	Data Requirement Statement
B.5	Classification category: accommodations, options or packages Attractions, amenities, public transportations
B.6	Central DTI consists of government owned assets (attractions), commercial and Private Each country has it own centralized DTI Connection
B.7	Information management: original copy, information user track, information usage track) Conduct statistical analysis to assess the status of information utilization and the user response to provide quality information
B.8	Coded categories are classified by country/state or city/products/occasion

5.2 Definitions Business Terms

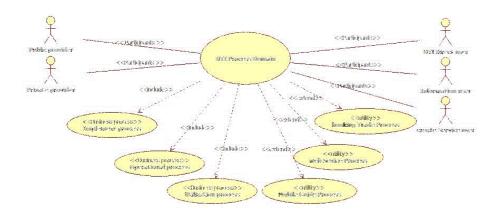
Figure 6 specifies business terms used in this document. Those terms and definitions are to help understanding different phases of the implementation and utilization of the DTI system.

Terms	Definitions
Travel Destination	Destination that reflects an individual traveler's POI
Travel Schedule	A list of travel destinations without considerations of time and location place
Travel Route	A travel schedule that states: i) Calculate the distance between one place to another and ii) Estimate time taken to reach one place to another
Public DTI exchange	Information exchange about government-owned assets This information must be certified by an adequate government organization
Private DTI exchange	Information exchange about privately owned assets such as privately owned attractions, leisure and entertainment facilities, restaurants, accommodations and architectures
Private DTI	Registered FITs share their experience and information through DTI
DTI Provision	Users can obtain information from DTI servers through API
Destination POI	Travel destination location
Indicator POI	The center or main spot of a destination to indicate the location on the map * Indicator POI provides location information of the center of a park or a building whereas Destination POI leads travelers to the entrance(s) of a building or a park.
Emotional POI	Destination POI with emotional approach to provide a unique experience for certain attractions Examples of emotional POI include suggested locations for the night view of Seoul or selected spots to find the best view of an attraction.

5.3 Business Requirements View

Business Requirements view must be formalized with adequate UML: Activity diagram, class diagram, business choreography diagram and worksheet. Detailed UMLs will be provided later in this document.

5.3.1 Business Domain View

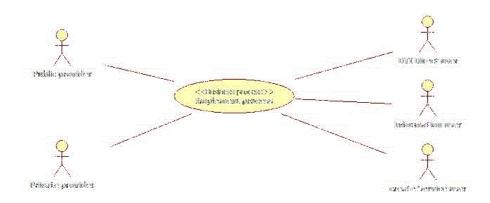


5.3.1.1 Business Process Worksheet

Form for Business Process	
General	
NAME	Implementation Business Process
Description	Process to input basic information of DTI (travel destination, geographical coordinates, basic description, classification code and key word for searching option) Consists of a number of sequential phases including information register, information authorization, provider authorization and information disclosure

Form for Business Process	
General	
NAME	Operating Business Process
DEscription	Operating system maintenance process to update information and analyze the information quality by assessing the magnitude of content usage
Form for Business Process	
General	
NAME	Utilization Business Process
DEscription	Process to foster value-creating project or businesses using DTI - Users can directly obtain and recreate information from DTI - Business entities can utilize DTI to create new business models or travel products

5.3.1.2 Business Process Use case



Business processes consist of implement, operation and development process. They can be used to create a new business model/method.

5.3.2 Business Partners View



5.3.2.1 Information model definition (Class diagram)

The class diagram of the destination travel information used in the Business Domain Use Case Diagram in Figure 5 is shown as follows in Figure 9.

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5.3.2.2 Definition of terms

The definition of terms is shown in Figure 10.

Name	Definition
Destination Travel Information_	Point of Interest
Digital Point Of Interest	Point of interest
Destination Travel Information_ Digital	A unique identifier that is automatically assigned by
Point Of Interest. Identification	the system
Destination Travel Information_ Digital	The name, expressed as text, of this DPOI
Point Of Interest. Name	The name, expressed as text, of this DPOT
Destination Travel Information_ Digital	The written description of features of this DPOI
Point Of Interest. Description	
Destination Travel Information_ Digital	The representative position, expressed as GeoJSON
Point Of Interest. Location. Destination	point, of this DPOI
Travel Information_Location	
Destination Travel Information_ Digital	The representative altitude, expressed as double, of
Point Of Interest. Altitude	this DPOI
Destination Travel Information_ Digital	The physical region, expressed as GeoJSON polygon,
Point Of Interest. Region. Destination Travel Information Region	of this POI
Destination Travel Information_ Digital	
Point Of Interest, SpatialGranularity.	Level of detail information that is classified based on
Destination Travel Information Spatial	the spatial information of this DPOI
Granularity	the spatial monnation of this DP Of
Destination Travel Information_ Digital	The administrative address of the place where this
Point Of Interest. Address. Destination	DPOI is located, including the house or office number
Travel Information Address	and the name of the street, area, and town
Destination Travel Information Digital	and the name of the saleet, area, and town
Point Of Interest. Category.	
Destination Travel Information_	A string code that classifies features of this DPOI
Category	
Destination Travel Information_ Digital	A list of URLs used in other sites and/or services that
Point Of Interest. SameAs	represent the same place of this DPOI
Destination Travel Information_	Course information including DPOIs
Course	
Destination Travel Information_	A unique identifier that is automatically assigned by
Course. Identification	the system
Destination Travel Information_	The name, expressed as text, of this course
Course. Name	The mane, expressed as text, of the source
Destination Travel Information_	The written description of features of this course
Course. Description	
Destination Travel Information_	
Course. Waypoint. Destination Travel	A list of DPOI attributes constituting this course
Information_Waypoint	
Destination Travel Information_	The physical line, expressed as GeoJSON line string,
Course. Trajectory. Destination Travel	of this course
Information_Trajectory	
Destination Travel Information_	Level of detail information that are classified based on
Course. SpatialGranularity. Destination	the spatial information of this course
Travel Information_Spatial Granularity Destination Travel Information	
Story	Story information using DPOIs
Destination Travel Information_ Story.	A unique identifier that is automatically assigned by
Identification	the system
Northing about	and operation

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	Destination Travel Information_ Spatial	
		The list of URIs of lower level documents

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Granularity. ChildrenPointOfInterest						
Destination Travel Information_ Spatial Granularity. DelegatePointOfInterest	The list of URIs of extended DPOI services or servers					
Destination Travel Information_ Spatial Granularity. GranularityLevel	The value, expressed as double, which represents the level of this objects in geospatial context, is categorized by the physical size of the area of DPOI.					
Destination Travel Information_ Waypoint	A List of DPOI attributes constituting this course					
Destination Travel Information_ Waypoint. DPOI. Destination Travel Information_ Digital Point Of Interest	A URI of DPOI constituting a course					
Destination Travel Information_ Waypoint. Story. Destination Travel Information_ Story	A URI of story related to the DPOI					
Destination Travel Information_ Waypoint. Region. Destination Travel Information_ Region	A physical region, expressed as GeoJSON polygon type, of the story or DPOI for descripting contents					
Destination Travel Information_ File	Media file information					
Destination Travel Information_ File. FilePath	A file system path of a media file					
Destination Travel Information_ File. Origin	A original file name including file extension					
Destination Travel Information_ File. MimeType	Multipurpose Internet Mail Extensions					
Destination Travel Information_ File. Size	Bytes size of a media file					
Destination Travel Information_ Location	Geospatial location information					
Destination Travel Information_ Location. Type	Type of location information such as points, polygon, line set, and et al.					
Destination Travel Information_ Location. Coordination. Destination Travel Information_ Point	Point information composed of latitude and longitude.					
Destination Travel Information_ Point	Geospatial location information of a point					
Destination Travel Information_ Point. Latitude	Latitude of a point.					
Destination Travel Information_ Point. Longitude	Longitude of a point.					
Destination Travel Information_ Region	Geospatial location information of a region					
Destination Travel Information_ Region. Type	Type of location information such as points, polygon, line set, and et al.					
Destination Travel Information_ Region. Coordination. Destination Travel Information_ Point	Coordinate information of the region composed of latitude and longitude.					
Destination Travel Information_ Trajectory	Geospatial location information of a trajectory					
Destination Travel Information_ Trajectory. Type	Type of location information such as points, polygon, line set, and et al.					
Destination Travel Information_ Trajectory. Coordination. Destination Travel Information_ Point	Coordinate information of the trajectory composed of latitude and longitude.					

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