

Assignment II

Architectural Change of J.D.H. Insurance

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1 Introduction

This report intends to overview the J.D.H. Insurance's, a fictive company, enterprise architecture as it is today, and subsequently describe models, suggestions for improvements and plan the transition from the as-is architecture to the to-be. The scope has been limited to the section in the organisation where the external customer plays an active role, including business processes such as when a customer orders an insurance, reports a claim, needs support, and also internal processes supporting these main processes.

1.1 J.D.H. Insurance

J.D.H. Insurance is an insurance company with focus on private persons. The company has, during some years, increased their number of customers constantly, making the company one of the leading insurance companies in the country. This has lead to many changes throughout the years and the CEO and other managers has during the last years experienced that the informations systems does not support the business enough to deliver value to the business and customers along with increasing cost for the systems. The company is now in need of, and want to transform the architecture into a more efficient and standardized enterprise architecture. This they believe could be reached by analyzing their current architecture and develop it into an architecture more supporting, more standardized and more cost-efficient.

1.2 Vision Statement

J.D.H. Insurance's intention is to become the greatest company providing insurance to customers in terms of products, support, and value. It shall be pleasurable to become a customer through each of the company's sale channels. It shall be satisfying to be a customer, with tremendous support and service.

1.3 Goals

The goal with this paper is to analyze the processes included in the above mentioned scope to approach the visioned stated. J.D.H Insurance can become a leading company by having high accuracy in their processes including crucial information exchange with customers which supports the decision making of the internal employees. By ensuring availability of provided services, J.D.H insurance can improve the customers perceived view of the company and increase the customers satisfaction and by reducing the cost of important processes which remains in the company throughout its lifetime J.D.H Insurance could exploit these savings in compensations to customers and become more competitive.

1.4 EA Utilities

The work of this architectural change uses two distinct utilities for executing the analyze and finding an architecture aligning with the requirements of the CEO and the other stakeholders. The first utility is the Multi Attribute Prediction metamodel (MAP, 1.4.2 on the following page) which is capable of assigning values to attributes of the modeled entities to be able to analyze the models with specific attributes in mind. The second is the Enterprise Architecture Analysis Tool (EAAT, 1.4.3 on the next page) which is an application capable of modeling using the MAP metamodel and is capable of running analyzes. These utilities are further explained in the coming sections.

1.4.1 ArchiMate

ArchiMate, a modelling language specified by The Open Group [1], offers a common way to model an enterprise architecture. It is based on three layers - business, application, and technology - providing the possibility to unambiguously describe, analyze, and visualize complex structures within an organization. Each layer consists of objects describing a certain element within a specific layer.

1.4.2 MAP Metamodel

The Multi Attribute Prediction model (MAP) is based on the ArchiMate language and can be described as an extension to it, enabling further analysis of an enterprise architecture [2]. The tool uses the same concept with layers and services and adds the functionality of assigning attribute values to elements. These attributes are application modifiability, data accuracy, application usage, service availability, interoperability, cost, and utility.

Application modifiability is of great interest when analyzing IT-system architecture as the metric determines how complex it is to modify and replace existing modules and/or systems. For example, several systems may probably be interconnected, if we replace one of them - how much work will be needed to make the new structure operational? The Application modifiability attribute seeks to answer this question and in general help decision makers in similar situations. The value is based on three metrics for an application: complexity, size, and coupling.

Data accuracy refers to the quality of data in terms of correctness and error. Low data accuracy may be the result of the human factor, when it was manually inputted to a system. As data flow through the enterprise, it is important to define data accuracy to be able to analyze the impact certain data have to the whole system.

As the portfolio of systems within an organization grows, the likelihood of having redundant applications increases. At the same time, it can be difficult to understand the importance of a system. A tool to analyze this issue is to calculate the Application usage, which (not surprisingly) indicate the usage for an application. Roughly, the value is calculated based on how a user perceive a technology to fulfill a work task.

Service availability refers to the attribute value describing the availability for a service. This value is determined by statistics regarding the fail-ratio/down-time and time consumed on maintenance on a system. The availability attribute is often rated very highly by IT-system executive since the costs are often of serious magnitude when a system is failing.

Interoperability refers to the the communication between different systems. The attribute is used to display which systems that are interoperable. If they "speak" the same language, they can exchange information and thus are interoperable, otherwise not.

The attribute **Cost** is, straightforwardly, important and useful information in an enterprise architecture. In MAP, the cost consists of the initial cost and the yearly cost, which refers to maintenance and support etc.

The **Utility** attribute belongs to a stakeholder and it is a function dependent on a stakeholder's requirements for a service or an application. The value is useful to view the impact a system and its properties has, in terms of utility, for a stakeholder.

1.4.3 EAAT tool

The Enterprise Architecture Analysis Tool (EAAT) is developed by the school of Electrical Engineering at the Royal Institute of Technology and is capable of modelling and calculating analyzes of an enterprise and the enterprise's information systems. The analysis done in EAAT can be used to support decision making in reaching the target architecture from the vision of the enterprise. The analysis focuses on attributes in the metamodel, and by using MAP as metamodel and EAAT for modelling and analyzing J.D.H. Insurance's enterprise, their vision can be reached by analyzing scenarios to find the most suitable target architecture.

1.5 IT-systems

Supporting the business processes within the enterprise are a set of IT-systems addressing a certain needs of the company. Next, the IT-systems used by J.D.H. Insurance are presented briefly.

1.5.1 Customer Relationship Management

Customer Relationship Management (CRM) is a system for analyzing and managing the interaction with existing and potential customers. Through the different capabilities commonly offered by these systems companies can build a more personal relations with the customer and thereby achieve a higher degree of customer satisfaction. In the context of J.D.H. Insurance the CRM system provides means of identifying potential customer needs based on observed customer behaviour.

1.5.2 Enterprise Resource Planning

In the scope of this report the Enterprise Resource Planning (ERP) is a system used for maintaining various information flows within the boundaries of the organization. In J.D.H. Insurance the ERP is used for registering the different compensation claims.

1.5.3 Claim Management System

The Claim Management System (CMS) is a system within J.D.H. Insurance that handles all claim related inquiries; the functionality of the CMS include, but are not limited to: providing a digitized form for claim reporting, providing claim information connected to a specific customer, customer compensation payment etc. This system in turn collaborates with other systems for performing certain tasks (this is depicted in the models below).

1.5.4 Mail Support System

The Mail Support System (MSS) used in J.D.H. Insurance is a system that utilizes a help desk DB and a mail server in order to offer functionality for: handling of in- and outgoing issue mail as well as providing the help desk worker with a set of tools to ease the work of problem solving.

1.5.5 Order Management System

The Order Management System (OMS) is the entity within the order flow responsible for handling insurance orders. It uses an independent database for order storage and also collaborates with a CRM system for retrieval of customer information as well as coupling order(s) to customer.

2 As-Is

The As-Is architecture of J.D.H. Insurance is derived from their most important processes. From these processes the information systems, information objects and technical infrastructure can be identified. The following sections will present each of these important processes and their underlying systems, objects and infrastructure.

2.1 J.D.H. Insurance's most core processes, systems and objects

The models presented in this section considers the As-is state of the enterprise architecture. The following subsections will describe the important functions in J.D.H. Insurance and each function will be followed by a model explaining the business processes and objects, information system and the underlying technology. These models are high-level overview ArchiMate models of the processes and systems to give a picture of the enterprise and they may differ slightly from the later presented As-Is model in the MAP language.

2.1.1 The Ordering of an Insurance

To order an insurance the customer is able to browse J.D.H. Insurance's website for the insurance they would like to apply for. The customer is then able to download a paper application form and send it to J.D.H. Insurance by mail for the company's order managers to register the order and to send an order status response back to the customer before the order of an insurance is completed. Figure 1 shows the business services available for the customer and what processes they are realised by, which system that supports these processes and the objects used when ordering an insurance.

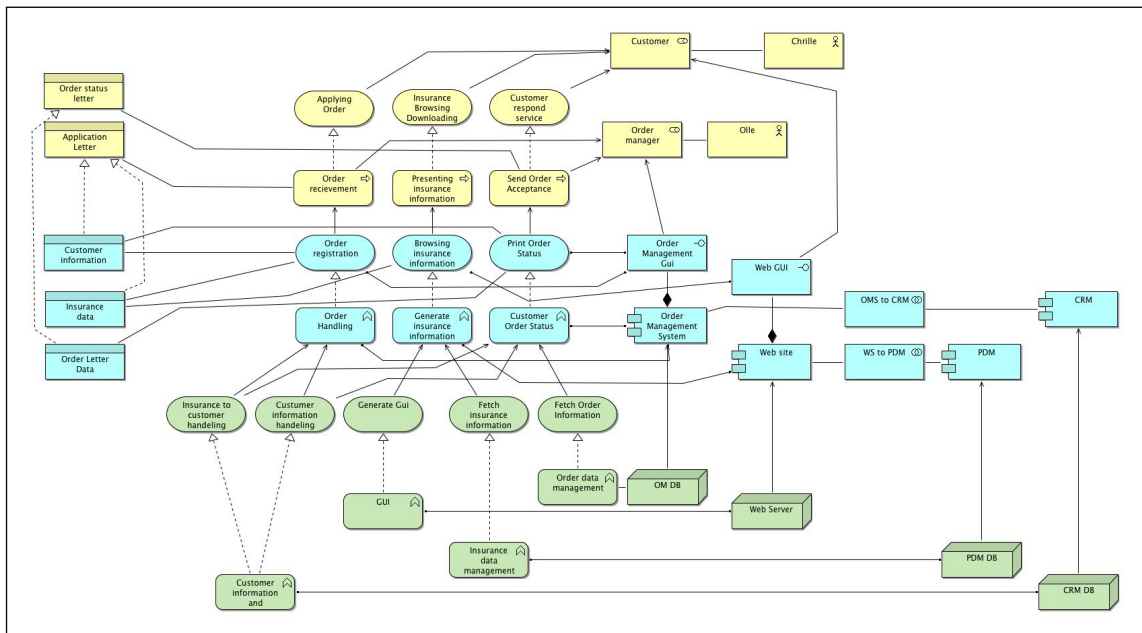


Figure 1: Ordering an insurance (*ArchiMate*)

2.1.2 The Process of Claim Registration

To claim compensation, the customer are able to download a paper claim application from the website. The application, including customer information and claim description, is sent to J.D.H Insurance by mail which is received by a claim administrator which registers it in the Claim management system by hand. A Claim Evaluator evaluates the claim application and compensates the customer in case of valid claim. Either way the claim evaluator notifies the customer by sending

a letter with his answer to the claim. Figure 2 displays the services available to the customer and the underlying process and systems. It also shows the processes which the evaluator and administrator executes and which systems they use.

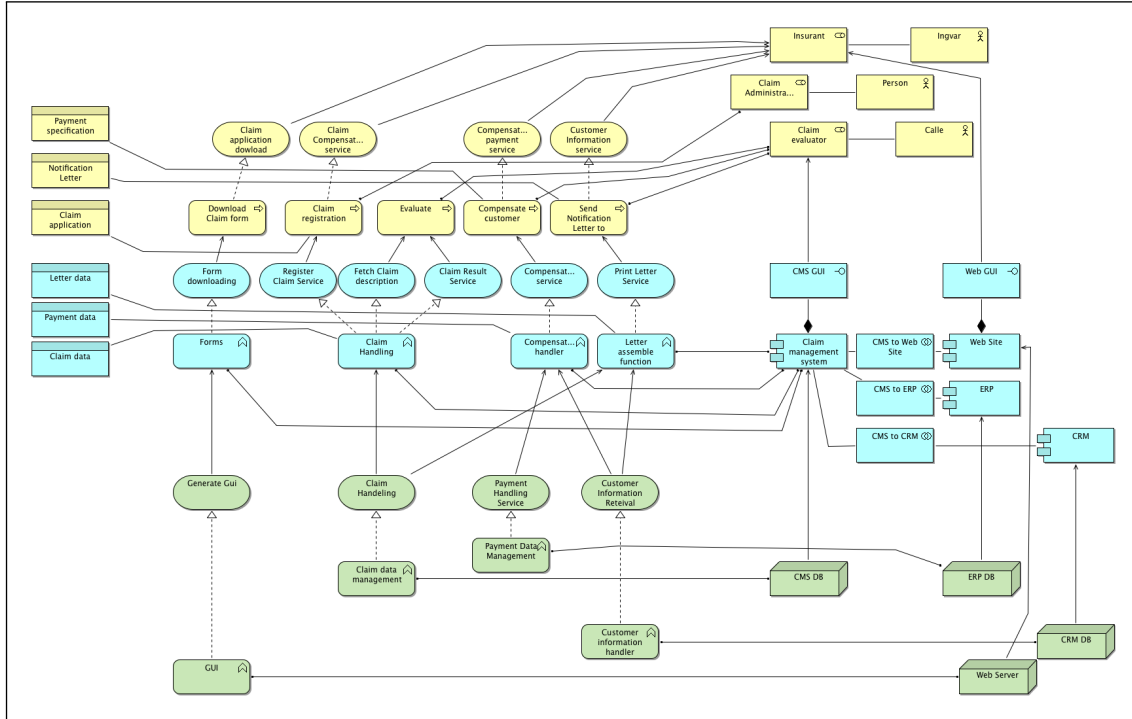
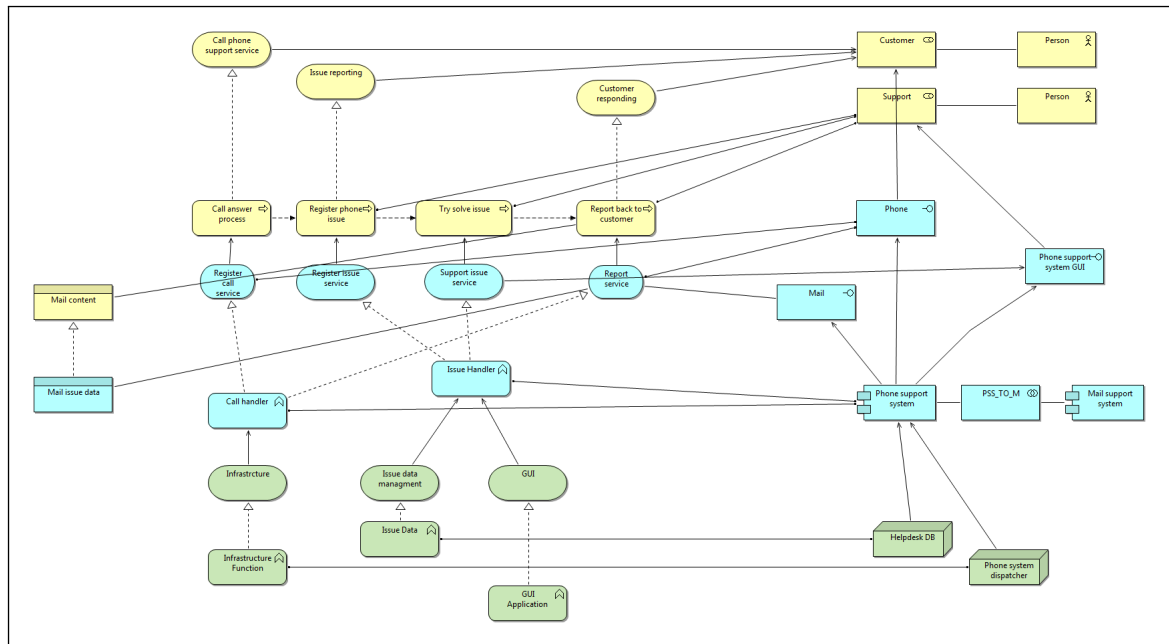


Figure 2: Claim registration (*ArchiMate*)

2.1.3 Support Processes

J.D.H. Insurance provides various support services for their customers and possible customers, which includes support by phone or e-mail. Each support service are described in the following subsections.

2.1.3.1 Phone Support The customer has the option to call in to J.D.H. Insurance for support. Figure 3 on the following page shows the process and it works like following: the customer makes a call, whereupon this call gets registered by the phone support system and then placed in a stack by the phone dispatcher. The call then gets handled by someone in the support team which will try to solve the problem over the phone. While trying to solve the problem at hand, the supporter is provided with a FAQ service that will help in the problem solving. The results of the solving process is either directly reported back to the customer over the phone or by an email.

Figure 3: Customer support via telephone (*Archimate*)

2.1.3.2 E-Mail Support The customer is able to send an e-mail to get support from J.D.H. Insurance's support team. The e-mail sent to the support team gets registered in the mail support system for help desk team to try solve. When the issue is handled the employee handling the issue sends an e-mail back to the customer including the results from the investigation. Figure 5 shows the services available to the customer and what processes the support team executes to enable e-mail support. This process is shown in figure 4.

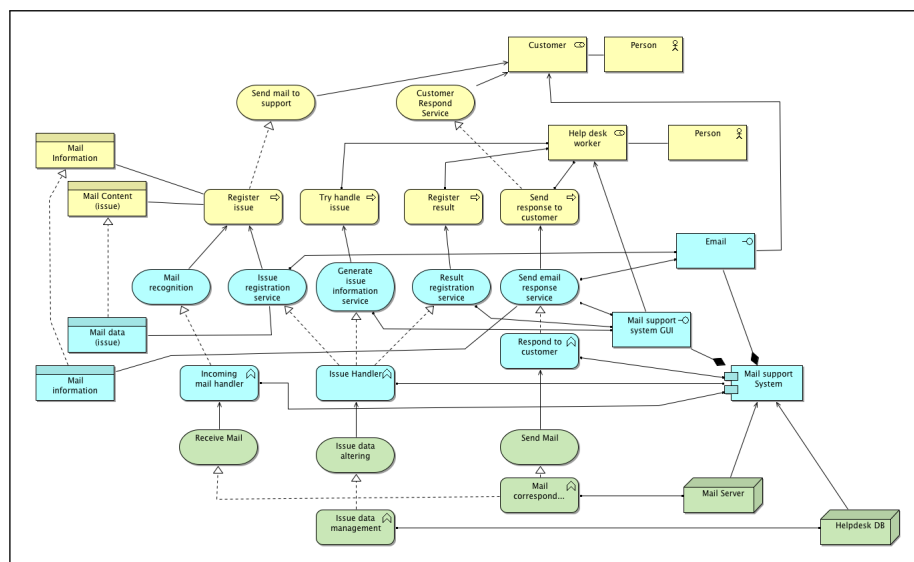


Figure 4: Customer support via e-mail (*ArchiMate*)

2.2 The As-Is MAP Model

In this section we depict the different business processes translated to MAP based on the ArchiMate models presented earlier in the report. The following figures (5-8) maps directly to views in the MAP model, thus, the figure depicted in the beginning of the report is all the view merged together. All views can be viewed in the attached iEaat file.

2.2.1 Business Architecture

Figure 5: As-Is Business Architecture (*MAP*)

2.2.2 Information Architecture

Figure 6: As-Is Information Architecture (*MAP*)

2.2.3 Information System Architecture

Figure 7: As-Is Information System Architecture (*MAP*)

2.2.4 Infrastructure Architecture

Figure 8: As-Is Infrastructre Architecture (*MAP*)

2.3 MAP Analysis

This section contains analysis of segments of the As-Is MAP model, with respect to MAP attributes, where potential change could be made to reach the vision of the company.

2.3.1 Claim Registration - Data Accuracy

The claim registration service which J.D.H. Insurance provide to the customers they insure has a critical point where it is important that the accuracy of the claims application maintain, that is when the claim administrator receives the claim application from an insurant and registers it into the claim management system. For J.D.H. Insurance to ensure that no information is lost in this process it is vital to analyze the data accuracy of it to see if it can be improved by a new architecture providing higher accuracy. The analyze is done by using the following view, displayed in figure 9.

Figure 9: Data accuracy for the Claim data from received application to the evaluated claim object in the claim management system (*MAP*)

The claim application is sent by the insurant to the company and the input accuracy of the application can be assumed to be very high, 0.99. The application is processed by the claim administrator in the claim registration process and the translation from the paper application to the digital description tend to create loss of information, the input accuracy of this is 0.80. The evaluator then reads this description and extends it with an answer, this extension has an input accuracy of 0.95.

This results in a total accuracy loss of 0.81 which seems like a low value for a company evaluating information provided by their customers and which aim to provide the best insurances.

Application Services						
	<i>Register Claim Service</i>	<i>Fetch Claim Description</i>	<i>Claim Result Service</i>	<i>Print Letter Service</i>		
Deterioration	0.01	0.01	0.01	0.01		

Business Processes		
	<i>Claim Registration</i>	<i>Evaluate</i>
Deterioration	0.10	0.03

Representation Sets (RS) and Data Sets (DS)						
	<i>Claim Application (RS)</i>	<i>Claim Description (RS)</i>	<i>Claim Description (DS)</i>	<i>Claim Description with Result (RS)</i>	<i>Claim Description with Result (DS)</i>	<i>Notification Letter (RS)</i>
Input Accuracy	0.99	0.98	0.99	0.99	0.99	0.99
Accuracy	0.99	0.89	0.88	0.85	0.85	0.84

Table 1: Claim process, *Data Accuracy* (As-Is)

2.3.2 Support - Service Availability

One of J.D.H. Insurance visions is to provide the best support for their customers. One important aspect of this support is the availability of the support. Clearly the access points for the support functions need to be available to the customers if they should be able to contact J.D.H. Insurance. An analysis of the availability of the access points of both the support architectures would then be of value for J.D.H. Insurance, and to evaluate what improvements that could be done to increase the availability of these services. The following view, figure 10, shows the service of calling to the phone support and analyzes its availability to the customers.

Figure 10: Service availability of the Phone support access service (*MAP*)

The Phone support system has an availability of 0.95. The Phone system dispatcher has an availability of 0.96. The infrastructure function Call management and the infrastructure service call provider has evidential availability of 0.95.

The result of the analysis of these values gives an availability of 0.91 for the service, which is a low value for a service which should be able to compete with other companies similar services. TODO TEXT ABOUT MAIL AVAILABILITY

Figure 11: Service availability of the Mail support service (*MAP*)

	Nodes			
	<i>Phone System Dispatcher</i>	<i>Phone Support DB</i>	<i>Mail Server</i>	<i>Mail DB</i>
Availability	0.97	0.97	0.98	0.96

	Application Components	
	<i>Phone Support System</i>	<i>Mail Support System</i>
Availability	0.98	0.98

	Role	
	<i>Phone Supporter</i>	<i>Mail Supporter</i>
Availability	0.97	0.95

	Business Services		
	<i>Phone Support Service</i>	<i>Send Mail to Support Service</i>	<i>Send Response to Customer</i>
Availability	0.85	0.90	0.91

Table 2: Support process, *Availability* (As-Is)

2.3.3 Order Registration and Sending Reports - Cost

The registration of order application and sending the order acceptance letter as response are two processes which uses several systems and a role in the company. The role is an Order manager registering and sending acceptance letters. The systems he uses are order management systems, the order management database and the customer relation database. All this systems and the role seems quite costly for such a simple process, and to reach the vision of the company a more cost efficient architecture of these processes would help J.D.H. Insurance to provide better services and insurances. This architecture is interesting to analyze since it would be possible to replace the manager with an automated system and improve the usage of the order management system. The following view, figure 12, shows the view analyzed for finding cost in the processes which includes the manager.

Figure 12: Cost of the processes "Order Receivment" and "Send Order Acceptance" (*MAP*)

The manager is a yearly cost for the company of 500' SEK, that includes salary and recruitment costs etc. The Order management system had an initial cost of 1500' SEK since its a large and complex system and a yearly cost of 300' SEK. The Order management database had an initial cost of 400' SEK and an yearly cost of 100' SEK. The CRM database is the most modern of these systems and was an initial cost of 700' SEK and is a yearly cost of 50' SEK.

The analysis resulted in a cost for the "Order receivment" process of 1525' SEK and a cost for the "Send Order Acceptance" process of 1837500 SEK.

Nodes		
	<i>CRM DB</i>	<i>Order Management DB</i>
Initial Cost	700 000	400 000
Yearly Cost	50 000	100 000

Application Component	
	<i>Order Management System</i>
Initial Cost	1 500 000
Yearly Cost	300 000

Role	
	<i>Order Manager</i>
Initial Cost	0
Yearly Cost	500 000

Business Processes		
	<i>Order Receivment</i>	<i>Send Order Acceptance</i>
Cost	1 650 000	1 900 000

Table 3: Order process, *Cost* (As-Is)

2.3.4 Order Registration - Availability

In order to achieve maximum customer satisfaction the availability of the order registration service is crucial, as this currently is the sole entry point for customers intending to purchase an insurance. Consequently an increase in order availability could then help mitigate situations where a customer is unable to make an order due to system failure; and potentially missing out in a customer. In figure 13, the current as-is situation of order registration view is depicted.

Figure 13: Cost of the processes "Order Receivment" and "Send Order Acceptance" (*MAP*)

Next we present the current values for some entities primarily considered when assessing the availability. The first two tables (Nodes & Application components) are evidential values, meaning, that these are values already set and not computed with through the EAAT tool. Whereas the availability in table the last table are derived values by EAAT.

	Nodes			
	<i>Apache Web Server</i>	<i>PDM DB</i>	<i>CRM DB</i>	<i>Order Management DB</i>
Availability	0.99	0.99	0.99	0.99

	Application Component	
	<i>Web Site</i>	<i>Order Management System</i>
Availability	0.99	0.99

	Role	
	<i>Order Manager</i>	
Availability	0.95	

	Business Process	
	<i>Order Receivment</i>	<i>Send Order Acceptance</i>
Availability	0.92	0.92

	Business Services	
	<i>Insurance Browsing and Down-loading Order Application</i>	<i>Applying Order</i>
Availability	0.98	0.92

Table 4: Order process, *Availability* and *Cost* (As-Is)

2.4 Improvements

J.D.H Insurance could apply many changes to their main processes to align with the goals of this report. This section presents improvements for certain attributes in the MAP metamodel to certain processes and services.

2.4.1 Order Process (Cost/Availability)

The order process uses many different systems for fulfilling its purpose, along with an employee working for registering these orders and sending letter back to the customers about their order. These systems and the employees are quite costly and as the process is very important to J.D.H Insurance and a process which will remain in the company a reduction of these costs are motivated.

2.4.2 Claim Process (Accuracy)

As the claim process suffers of low accuracy in the processing of a claim application, a clear improvement for reaching the vision of being a leading company is to increase the accuracy of this process. As mentioned in the goals of this report, it would support the decision making of compensating the customer for her claim or not, which has an interest for both J.D.H. Insurance and their customers.

2.4.3 Support Services (Availability)

The support services are important services for the customers and its availability is an important factor in the customers satisfaction of being a customer in J.D.H Insurance. An increase of the availability of the mail support and the phone support would increase the customers satisfaction which in turn could impact the new customer stream to the company and thereby revenue.

3 To-Be

This section will focus on the To-Be architecture of J.D.H. Insurance. Models and analysis of the target architecture will be presented, along with the gaps between the target architecture and the As-Is architecture. These gaps will be the foundation of the coming section.

3.1 The To-Be Map Model

In this section the models of the to-be architecture of J.D.H Insurance will be presented.

3.2 MAP Analysis

Analysis of the new architectural changes to the enterprise will be presented in this section.

3.2.1 Claim Registration - Data Accuracy

Figure 14: Data accuracy for the Claim data from received application to the evaluated claim object in the claim management system (*MAP*)

Application Services				
	Register Claim Service	Fetch Claim Description	Claim Result Service	Print Letter Service
Deterioration	0.01	0.01	0.01	0.01

Business Processes	
	Evaluate
Deterioration	0.03

Representation Sets (RS) and Data Sets (DS)						
	Claim Application (RS)	Claim Description (RS)	Claim Description (DS)	Claim Description with Result (RS)	Claim Description with Result (DS)	Notification Letter (RS)
Input Accuracy	0.99	0.98	0.99	0.99	0.99	0.99
Accuracy	0.99	0.89	0.88	0.85	0.85	0.84

Table 5: Claim process, *Data Accuracy* (To-Be)

3.2.2 Support - Service Availability

Figure 15: Service availability of the new support process (*MAP*)

	Nodes			
	<i>Phone System Dispatcher</i>	<i>Phone Support DB</i>	<i>Mail Server</i>	<i>Mail DB</i>
Availability	0.97	0.97	0.98	0.96

	Application Components	
	<i>Phone Support System</i>	<i>Mail Support System</i>
Availability	0.98	0.98

	Role	
	<i>Phone Supporter</i>	<i>Mail Supporter</i>
Availability	0.97	0.95

	Business Services		
	<i>Phone Support Service</i>	<i>Send Mail to Support Service</i>	<i>Send Response to Customer</i>
Availability	0.85	0.90	0.91

Table 6: Support process, *Availability* (To-Be)

3.2.3 Order Registration and Sending Reports - Cost

Figure 16: Cost of the processes "Order Receivment" and "Send Order Acceptance" (*MAP*)

	Nodes	
	<i>CRM DB</i>	<i>Order Management DB</i>
Initial Cost	700 000	400 000
Yearly Cost	50 000	100 000

	Application Component
	<i>Order Management System</i>
Initial Cost	1 500 000
Yearly Cost	300 000

	Role
	<i>Order Manager</i>
Initial Cost	0
Yearly Cost	500 000

	Business Processes	
	<i>Order Receivment</i>	<i>Send Order Acceptance</i>
Cost	1 650 000	1 900 000

Table 7: Order process, *Cost* (To-Be)

3.2.4 Order Registration - Availability

Figure 17: Cost of the processes "Order Receivment" and "Send Order Acceptance" (*MAP*)

Nodes				
	<i>Apache Web Server</i>	<i>PDM DB</i>	<i>CRM DB</i>	<i>Order Management DB</i>
Availability	0.99	0.99	0.99	0.99

Application Component	
	<i>Web Site</i> <i>Order Management System</i>
Availability	0.99 0.99

Role	
	<i>Order Manager</i>
Availability	0.95

Business Process	
	<i>Order Receivment</i> <i>Send Order Acceptance</i>
Availability	0.92 0.92

Business Services	
	<i>Insurance Browsing and Down-loading Order Application</i> <i>Applying Order</i>
Availability	0.98 0.92

Table 8: Order process, *Availability* (To-Be)

4 MAP Analysis Results

		Application Services			
		<i>Register Claim Service</i>	<i>Fetch Claim Description</i>	<i>Claim Result Service</i>	<i>Print Letter Service</i>
Deterioriation	As-Is	0.01	0.01	0.01	0.01
	To-Be	0.01	0.01	0.01	0.01

		Business Processes	
		<i>Claim Registration</i>	<i>Evaluate</i>
Deterioriation	As-Is	0.10	0.03
	To-Be	0.10	0.03

		Representation Sets (RS) and Data Sets (DS)					
		<i>Claim Application (RS)</i>	<i>Claim Description (RS)</i>	<i>Claim Description (DS)</i>	<i>Claim Description with Result (RS)</i>	<i>Claim Description with Result (DS)</i>	<i>Notification Letter (RS)</i>
Input Accuracy	As-Is	0.99	0.98	0.99	0.99	0.99	0.99
	To-Be	0.99	0.98	0.99	0.99	0.99	0.99
Accuracy	As-Is	0.99	0.98	0.99	0.99	0.99	0.99
	To-Be	0.99	0.98	0.99	0.99	0.99	0.99

Table 9: Claim process, *Data Accuracy* (summarized)

		Nodes		
		<i>Phone System Dispatcher</i>	<i>Mail DB</i>	<i>Help Desk DB</i>
Availability	As-Is	0.99	0.98	N/A
	To-Be	-	-	HEAVY

		Application Components		
		<i>Phone Support System</i>	<i>Mail Support System</i>	<i>Help Desk System</i>
Availability	As-Is	0.99	0.99	N/A
	To-Be	N/A	N/A	0.98

		Role		
		<i>Mail Supporter</i>		
Availability	As-Is	0.95		
	To-Be	-		

		Business Process		
		<i>Send Response to Customer</i>		
Availability	As-Is	0.92		
	To-Be	-		

		Business Services	
		<i>Call Phone Support Service</i>	<i>Send Mail to Support Service</i>
Availability	As-Is	0.91	0.94
	To-Be	-	-

Table 10: Support process, *Availability* and *Cost* (summarized)

5 Gaps

The gaps between the As-is model and the To-be model will be presented in this section.

6 Transformation Plan

The transformation plan from the As-is architecture to the To-be architecture will be presented during this section and will be based on the gaps found in the previous section.

References

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