



Design and modeling of processes through eTOM, ITIL and ISO 27001 for a telecommunications company

A Degree Thesis
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Abstract

This project deals with the design and modeling of the processes that make up a company in order to achieve the proposed objectives of quality improvement and organization, in the most efficient way possible, thus demonstrating the importance of carrying out this modeling.

Specifically, in this thesis we will analyze how this is carried out at AFR-IX telecom, a telecommunications company that offers data and advanced managed solutions to telecommunications companies and operators in Africa.

To achieve this objective, different theoretical frameworks that are relevant today in the business world have been studied, specifically BPMN, eTOM, ITIL and ISO 27001.

All modeling must be based on these concepts in order to implement the model obtained using different tools. In this project you will be able to see how some of the most used today have been used in a practical way, such as Signavio, Visio, Odoo and Service Desk Plus.





Resum

Aquest projecte tracta el disseny i el modelatge dels processos que formen una empresa per poder assolir els objectius proposats, de millora de qualitat i organització, de la forma més eficaç possible, demostrant així la importància de realitzar aquest modelatge.

Concretament, en aquest TFG analitzarem com es porta això a terme en AFR-IX telecom, una empresa de telecomunicacions que ofereix dades i solucions gestionades avançades a empreses i operadors de telecomunicacions a l'Àfrica.

Per assolir aquest objectiu, s'han estudiat diferents marcs teòrics que avui en dia són rellevants en el món empresarial, concretament BPMN, eTOM, ITIL i ISO 27001.

Tot modelatge s'ha de basar en aquests conceptes per arribar a implementar el model obtingut fent ús de diferents eines. En aquest projecte es podrà veure com s'han usat de forma pràctica algunes de les més utilitzades avui en dia com són Signavio, Visio, Odoo i Service Desk Plus.





Resumen

Este proyecto trata el diseño y el modelado de los procesos que forman a una empresa para poder alcanzar los objetivos propuestos, de mejora de calidad y organización, de la forma más eficaz posible, demostrando así la importancia de realizar este modelado.

Concretamente, en este TFG analizaremos como se lleva esto a cabo en AFR-IX telecom, una empresa de telecomunicaciones que ofrece datos y soluciones gestionadas avanzadas a empresas y operadores de telecomunicaciones en África.

Para alcanzar este objetivo, se han estudiado distintos marcos teóricos que hoy en día son relevantes en el mundo empresarial, concretamente BPMN, eTOM, ITIL e ISO 27001.

Todo modelado se debe basar en estos conceptos para llegar a implementar el modelo obtenido haciendo uso de distintas herramientas. En este proyecto se podrá ver como se han usado de forma práctica algunas de las más utilizadas hoy en día como son Signavio, Visio, Odoo y Service Desk Plus.





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1. Introduction

1.1. Objective, requirements and specifications

The purpose of this project is to carry out an implementation of the processes in a telecommunications company and see the advantages of carrying out a process-oriented business management with improvements in productivity, efficiency and generating value for customers. To achieve this goal, the design and modeling of processes of at AFR-IX telecom have been done at the Processes and Systems department using the best reference frameworks adapted to the specific needs, taking the infrastructure of eTOM, ITIL and ISO27001 in the foreground.

The project main goals are:

- Analysis if the state of art of eTOM, ITIL and ISO27001.
- Define, document and implement business processes that will improve the performance in time, costs and quality.
- Participate in cross-sectional meetings and periodic analysis to detect opportunities for improved operations and business.
- Support in establishing key indicators to assess the quality of day-to-day operations.
- Manage the implementation of different business projects.
- Act as a transversal Process Analyst for the design, launch and consolidation of technological tools in the different business areas.
- Use the newest technologies to seek continuous improvement and maximum efficiency.

The project is the continuation of a previous project done in October, where the initial phases were completed. It has been performed in the framework of the department development project and the main project initial ideas have been provided by the supervisor.

Since the project started and until starting this new stage, some parts were started such as implementing the company's process model (templates, documentation, ...) and carrying out the narrative of the processes by the design of workflows. Also, the implementation of the software Odoo was finished and the training that the employees needed, so nowadays the project is in the support and customization phase.





The project requirements are:

- Company process model
- Process creation planning
- Ensuring compliance with the ISO27001 standard

1.2. Work Plan

During the time that I have been working at Afr-ix Telecom for mi TFG, any huge incidences have occurred, but some changes have been implemented and some things have been delayed. These has resulted in a modification of some of the work packages through the development of the thesis.

The final packages encompass all aspects that are relevant for the design and modelling of processes, such as modelling, support and incidence resolution. The only thing that has not been included is the optimization of these processes, since there has not been enough time.

1.2.1. Work Packages

Project: Process model	WP ref: (WP1)	
Major constituent: Signavio	Sheet 1 of 4	
Short description:	Planned start date: 3/05/2021	
This work package consists in implementing the	Planned end date: 30/06/2021	
company's process model based on the best market	Start event:	
practices, using the best reference models adapted to the company's needs.	End event:	
company's needs.		
Internal task T1: Review documents	Deliverables: Dates:	
Internal task T2: Training	Process model	
Internal task T3: Meetings with the different departments		
Internal task T4: Process modelling using Signavio		

Project: Process modelling	WP ref: (WP2)
Major constituent: BPMN	Sheet 2 of 4
Short description:	Planned start date: 15/03/2021
This work package consists in carrying out the narrative	Planned end date: 30/06/2021
of the processes by the design of workflows, the raci matrix, the description of activities and the definition of process KPIs. While doing this BPMN will be necessary as a process diagramming tool.	Start event: End event:
Internal task T1: Review documents	Deliverables: Dates:





Internal task T2: Meetings with the different departments	Process Documents	

Project: ERP Level 1 Support	WP ref: (WP3)	
Major constituent: ERP	Sheet 3 of 4	
Short description:	Planned start date: 01/04/2021	
This work package consists in giving functional support	Planned end date: 30/06/2021	
of the ERP implemented, raising requirements and solving incidents.	Start event: End event:	
Internal task T1: Survey of requirements	Deliverables:	Dates:
	User manuals	
Internal task T2: Development of documentation for approval of changes		
Internal task T3: Incident resolution		

Project: ISO27001	WP ref: (WP4)	
Major constituent: ISO27001	Sheet 4 of 4	
Short description:	Planned start date: 17/05/2021	
This work package consists in getting familiar with this	Planned end date: 30/06/2021	
normative so that it can be included in the process model (controls and risks).	Start event: End event:	
Internal task T1: Review documents	Deliverables: Dates:	
Internal task T2: Training	Process model	
Internal task T3: Meetings with the different departments		
Internal task T4: Process modeling		

1.2.2. Gantt Diagram

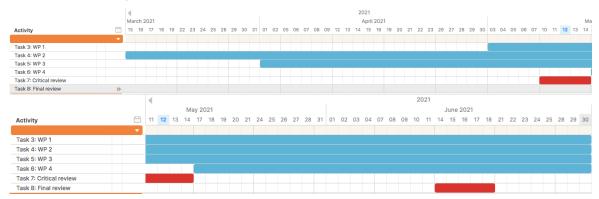






Figure 1: Gantt diagram

1.3. Structure of the document

Following the work packages that have been explained, the information in this thesis document is structured as follows:

- Chapter 2: This chapter includes a review of the literature of the different standards and models in which this project is based.
- Chapter 3: This chapter includes the description of the different elements involved in the construction of the setup and the instruments utilized in order to take the different measurements. Also includes the different controls developed and applied.
- Chapter 4: This chapter includes some of the processes that have been modeled as well as an analysis of them.
- Chapter 5: This chapter includes a budget for the project.
- Chapter 6: This chapter includes the conclusions of the project.





2. State of the art of the technology used or applied in this thesis:

In order to acknowledge all the state of the art of the technology applied in this thesis, in this chapter the basics concepts of process modelling as well as the standards used to implement them will be explained.

2.1. State of the art of BPMN

2.1.1. Process definition

To be able to talk about Business Process Management (BPM), first it is necessary to understand what a process is.

A process is a structured sequence of activities that are applied to a database in order to achieve a specific objective and that, when related to the rest of the processes, form the basis of any company.

Knowing this, it is important to understand that the input of these processes is defined according to the available information and the needs that exist regarding it, while the output provides products or services that guarantee user satisfaction. The path that is carried out through one or more processes to get from one to another is called information flow.

Since these processes should meet the needs of the user in order to achieve the highest quality possible, they can be classified in three different categories based on their relevance to increase that quality: management, key and support processes.



Figure 2: Types of processes

Every company is based on a series of processes, even if these have not been identified, since almost all the activities that are carried out are part of a process.





Thanks to this identification, a process improvement can be made. It can be approached in various ways, for example based on key processes or results, but what is necessary is to define the objective, inputs, outputs, resources, procedures and specifications of each one.

2.1.2. Process implementation

Once the process identification has been completed, the next step is to implement those processes. Since the processes are not created but identified, the implementation could be compared to an improvement.

In order to achieve this enhancement two different approaches can be chosen. On one hand, it is important to improve one process independently by using techniques such as continuous process improvement, process simplification and process reengineering. On the other hand, the upturn can be done taking into account their relations which leads to the identification of critical processes and the map of processes.

2.1.3. Process documentation

There are two ways to document the processes: Process diagrams and Process sheets.

Process diagrams are a graphic representation of a process that uses a sequence of symbols in an understandable way to show its features and components and how it is related with the rest of the processes as well.

As the diagram represents a process, it must have a beginning and an end. During the course of the diagram, there are symbols which represents a task or activity in that process. These activities follow one another and between them decisions have to be made.

These diagrams are the perfect way to document a process since they describe it precisely allowing a global understanding of their functionality. Thanks to this method, with a standard language of easy understanding the process as a whole can be seen, which helps to detect the areas of improvement.

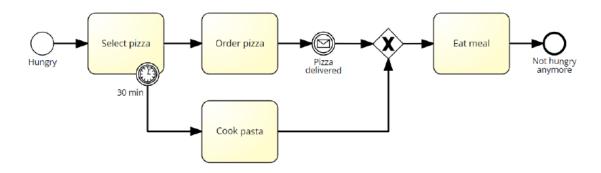


Figure 3: Diagram of a process





Just as the diagram is the best way to document a process, the process sheet is the simplest. A process sheet is a record that collects all the relevant information that define a process, as its title, version, number of pages, date of the last revision, purpose, owner and scope (start and end events).

2.1.4. Process mapping

As it has been mentioned before, a process mapping is useful to identify the interrelations existing between the processes.

A process mapping is a graphic scheme that represents the different processes that the organization uses and offers an overall view of the management system of the organization showing the interrelationships between the processes.

There needs to be a balance between how detailed a process mapping is and how difficult it is to understand the general structure.

To balance the level of detail that is shown, the process mapping can be done in first, second and third level. While the level increases also does the amount of detail and complexity. The design of a first level map will collect only the major processes of the Organization, a second level one will detail sub-processes and a third one will include the activities.

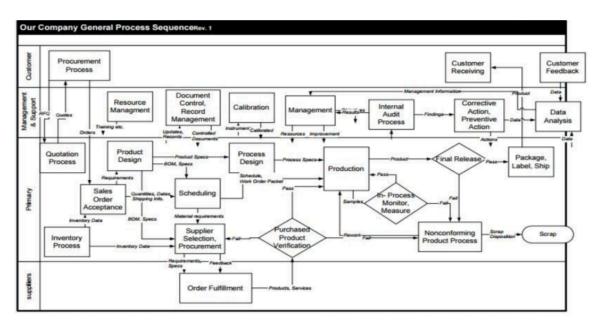


Figure 4: Process sequence

2.1.5. Business process management

Process Management is a management model that understands the organization as a set of global processes aimed at achieving a certain quality and the customer satisfaction. It is based on the modeling of systems as a set of processes interrelated which guarantee the coordination between all processes, improving the effectiveness and satisfaction.





In order to achieve these requirements, there needs to be a coherent structure of processes that represents the operation of the organization, a system of indicators that allows evaluating the effectiveness and efficiency and an appointment of process managers, who must oversee and improve the compliance with all the requirements and objectives of the assigned process.

Not only this has to be implemented, but also there needs to exist a continuous process of simplification and improvement. To reach this goal, all superfluous activities must be eliminated, the indicators will review the effectiveness and efficiency of the processes and the causes of problems are always attributable to the processes

The greatest usefulness of a business process modeling is to see how your organization works, to discover errors when designing as well as to understand the weak points of the company within the complex systems it manages. In this way, future predictions can be made with less uncertainty.

2.1.6. Standard BPMN 2.0

BPMN is a standard that is used to perform both business process analysis and modeling. It allows companies to view their internal business processes graphically thanks to a common notation for process communication. Its nomenclature encompasses concepts such as messages, conditionals, use of exceptions, states, parallel flows and events.

BPMN 2.0 is the latest specification to be developed by the OMG (Object Management Group).

In this standard there are three levels of analysis:

• Level 1: Descriptive BPMN, or basic process mapping.

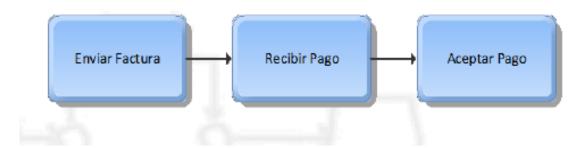


Figure 5: Basic process mapping





• Level 2: Analytical BPMN, or detailed process mapping.

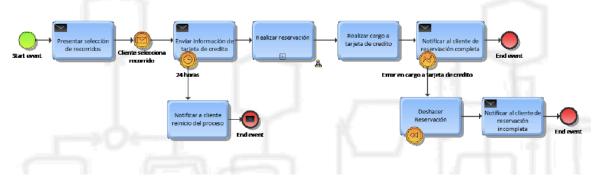


Figure 6: Detailed process mapping

• Level 3: BPMN executable, or deployment in a process engine.

2.2. State of the art of eTOM

2.2.1. Definition

eTOM (Enhanced Telecom Operations Map) is a business process framework that describes and analyzes different levels of enterprise processes according to their relevance and priority for the business. This framework is defined as generically as possible so that it remains independent.

The major process areas that form it are strategy, infrastructure, and product for planning and lifecycle management, operations for the core operational management and enterprise management for business support management.

2.2.2. Process mapping

As it has been explained before, the process mapping can be defined at different levels.

eTOM mapping at level 0 includes views of functionality as they span horizontally across the major process areas.





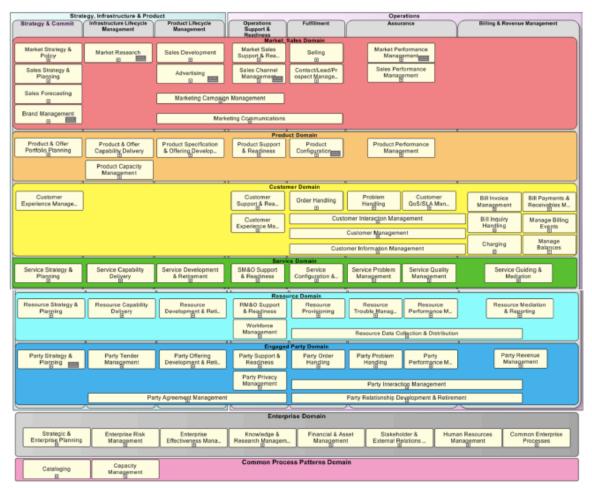


Figure 7: eTOM level 0

eTOM mapping at level 1 shows seven end-to-end vertical process groupings, divided between the strategy, infrastructure, and product and operations areas, required to support customers and manage the business.

1.1.1 Market Strategy & Policy



Figure 8: eTOM level 1





2.2.3. Benefits

Some of the benefits that eTOM has are that it provides a baseline standard structure that describes the business processes, through the whole company. Thanks to this end-to-end process flow it gives a basic understanding of IT applications. Also, this structure can be easily adapted and extended to a specific company, allowing to improve the quality, performance and cost of the existing processes.

2.3. State of the art of ITIL

2.3.1. Definition

ITIL (Information Technology Infrastructure Library) is a code of best practices for delivering IT services. It standardizes its selection, planning, delivery, and support to maximize efficiency and achieve a minimum level of quality that can be established, providing guidance on how businesses can use their IT services to support their goals and facilitate business growth so that the IT services are aligned to the needs of the business.

It describes the profile of service management organizations, taking it as the basis for a development that enlarges the model by defining processes that are not described in ITIL.

Its principles are to plan processes and define roles in order to optimize the resources when offering useful services and delivering them with the maximum value possible.

2.3.2. Structure

ITIL is structured into five core publications, that revolve around the service lifecycle: service strategy, design, transition, operation and continual improvement.



Figure 9: Service lifecycle

Service Strategy determines what services the IT organization should offer and what capabilities are needed to be developed in order to support business functions. It includes Service Desk, Incident, Problem, Configuration, Change Management and Broadcast Management.





Service Design includes the designing of new IT services and its change and improvement along with the existing ones. Service Transition implements those IT services, ensuring that changes to services and service management processes are carried out in an structured way.

Service Operation delivers IT services. It includes offering users adequate support, fulfilling customer requests, resolving service disappointments, fixing problems, and carrying out routine operational tasks so that it can be done efficiently.

Finally, Continual Service Improvement improves the quality of IT services iteratively in line with the concept of continual service improvement adopted in ISO.

2.3.3. Benefits

The benefits that ITIL provides can be either at short or long term, being the second ones the most relevant to a business.

Some of the benefits are that the processes implemented will be more specific to the business needs, which will help to understand the IT support. This provides greater flexibility and higher quality of service, leading to a higher customer satisfaction when providing a service by achieving the requirements. Also, the costs will decrease since it will require less effort to meet their necessities.

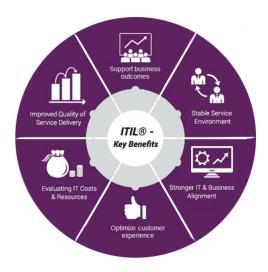


Figure 10: ITIL benefits

2.4. State of the art of ISO 27001

2.4.1. Definition

ISO 27001 is an international standard issued by the International Organization for Standardization (ISO) and the International Electrotechnical Commission (IEC) which describes how managing information security in a company aims to ensure the confidentiality and integrity of that company's information and the systems and applications





that deal with it. The most recent revision of this standard was published in 2013 and now its full name is ISO / IEC 27001: 2013. This standard also allows a company to be certified.

The standard defines in a generic way, independently of the factors of the organization and the assets of the organization's processes, a methodology on how an Information Security Management System (ISMS) is planned, implemented, verified and controlled.

In order to achieve all of that it follows the guidelines for the risk management, starting from the realization of a risk analysis to know where is the problem and then planning and implementation for their response in order to mitigate them.



Figure 11: ISO 27001 framework

ISO 27001 is a system based on the continuous improvement cycle or PDCA cycle (Plan-Do-Check-Act).

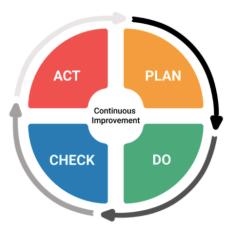


Figure 12: PDCA cycle

- Plan: It is the initial design stage in which the identification of the risks is done.
- Do: It is the implementation and operation of the ISMS.
- Check: It is an evaluation of its effectiveness and efficiency.
- · Act: It is a continuous improvement





It is important to have a certain knowledge, before starting the implementation of an ISMS, about the different documents and terms that form this normative as well as what is the scope and the context of the organization in order to have a better understanding about the needs and expectations. Also, there needs to be a management involvement with the system, through the establishment of policies, integrating the ISMS into the organization's processes, ensuring the necessary resources and assigning roles, responsibilities and authorities within it.



Figure 13: ISO 27001 phases

It is essential to detect, analyse and assess information security risks as well as planning response strategies for them. Once that is done, it is important to have guidelines for the monitoring, follow-up and control of its efficiency and effectiveness. Lastly, it is necessary to know the obligations that an organization will have when it finds a non-conformity and the importance of continuously improving the convenience, adequacy and effectiveness of the ISMS.

2.4.2. Implementation

When implementing an ISMS according to the ISO 27001 standard, we must take the risk assessment as the central concept, along with the appropriate methodology for it in the business.





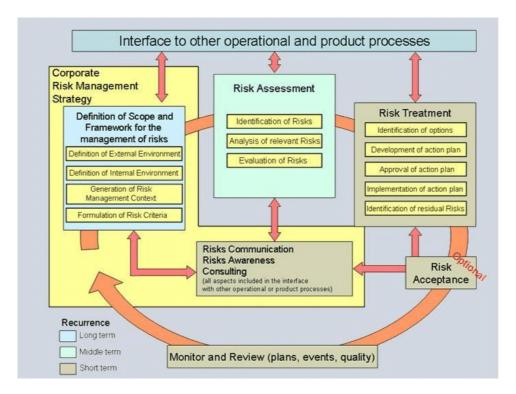


Figure 14: Risk management

First of all, there needs to be an identification of the information assets (understanding by asset all that has value for the organization.), vulnerabilities (weaknesses inherent to the asset that make it susceptible to attacks or damage.), threats (any event that may affect information assets), legal requirements and risks. The risk identification consists in defining, for each asset, the probability that threats or vulnerabilities may cause total or partial damage to the information asset.

Once the identification part is done, the next step is the risk calculation, which will help in prioritizing them. It is done based on the probability of occurrence of the risk and the impact it has on the organization. The risk can be either acceptable or residual. An acceptable risk will have reduced its possibility of occurrence and its consequences will be minimized. A residual risk is the one that remains even after having implemented the appropriate controls.

Finally, with all the previous information there needs to be a risk treatment plan which will try to either reduce, eliminate or transfer the risk. If the risk is critical to the point that it can endanger the very continuity of the organization, it must try to eliminate it. While that is the ideal, it is not always possible to achieve and the risks have to be accepted and monitored by implementing the necessary preventive or corrective measures in order to reduce its





possibility of occurrence or the impact. The last option consists in contracting some type of insurance that compensates the economic consequences of a loss or deterioration of the information.

2.4.3. Benefits

The benefits that Signavio provides are that it will improve the management of information security risks to organizations of all kinds and it will give customers and suppliers confidence that information security is taken seriously within the organization, being at the forefront in the application of the process technique to face information threats and security problems.





3. Methodology / project development:

3.1. Signavio

3.1.1. Definition

Signavio is a BPMN software. It is designed to facilitate the optimization of business process planning and management in a very intuitive way.

It is used to represent the process diagrams using different symbols that form a common language in order to ease their interpretation.

3.1.2. Notation

The standard notation that Signavio uses is formed by different symbols that can be classified in four types flow objects, connector objects, responsibilities and artifacts.

Flow objects are the basic units of the process.

- Task: It is an activity that is within a process, the work that a company does that cannot be broken down to a greater level of detail. A set of activities included within a process is a subprocess.
- Event: It is what happens while the business process is going on.
- Gateway: It is used to control the convergence or divergence of the flow sequence. They determine branches, combinations, mergers in the process.



Figure 15: Flow objects

The connector objects link the flow objects.

- Sequence flow: It is an arrow that defines the order of execution of the activities.
- Message flow: It is a dashed line that indicates the flow of messages.
- Association: It is a dotted line that associates different artifacts with flow objects





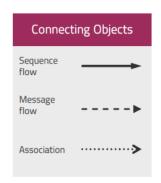


Figure 16: Connecting objects

Responsibilities organize the different activities by categories in order to show the different functional capacities.

- Lane: It represents a participant within a process, which contains the activities associated to their role.
- Pool: It represents the external actors with whom a process interacts.

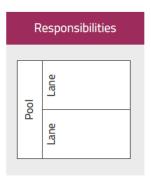


Figure 17: Responsabilities

Artifacts are graphic objects that provide additional information on the elements of a process.

- Data object: It provides the information that an activity needs.
- Group: It is used to group various activities
- Annotation: It is additional textual information.

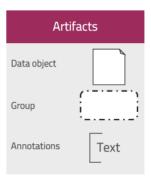


Figure 18: Artifacts





A larger description of each one of the basic symbols is included in the next figures.

Element	Description	Notation
Event	An Event is something that "happens" during the course of a Process (see page 238) or a Choreography (see page 339). These Events affect the flow of the model and usually have a cause (trigger) or an impact (result). Events are circles with open centers to allow internal markers to differentiate different triggers or results. There are three types of Events, based on when they affect the flow: Start, Intermediate, and End.	
Activity	An Activity is a generic term for work that company performs (see page 151) in a Process. An Activity can be atomic or non-atomic (compound). The types of Activities that are a part of a Process Model are: Sub-Process and Task, which are rounded rectangles. Activities are used in both standard Processes and in Choreographies.	
Gateway	A Gateway is used to control the divergence and convergence of Sequence Flows in a Process (see page 145) and in a Choreography (see page 344). Thus, it will determine branching, forking, merging, and joining of paths. Internal markers will indicate the type of behavior control.	\Diamond
Sequence Flow	A Sequence Flow is used to show the order that Activities will be performed in a Process (see page 97) and in a Choreography (see page 320).	
Message Flow	A Message Flow is used to show the flow of Messages between two <i>Participants</i> that are prepared to send and receive them (see page 120). In BPMN, two separate Pools in a Collaboration Diagram will represent the two <i>Participants</i> (e.g., PartnerEntities and/or PartnerRoles).	~~~~~
Association	An Association is used to link information and Artifacts with BPMN graphical elements (see page 67). Text Annotations (see page 71) and other Artifacts (see page 66) can be Associated with the graphical elements. An arrowhead on the Association indicates a direction of flow (e.g., data), when appropriate.	>





Pool	A Pool is the graphical representation of a Participant in a Collaboration (see page 112). It also acts as a "swimlane" and a graphical container for partitioning a set of Activities from other Pools, usually in the context of B2B situations. A Pool MAY have internal details, in the form of the Process that will be executed. Or a Pool MAY have no internal details, i.e., it can be a "black box."	Name
Lane	A Lane is a sub-partition within a Process, sometimes within a Pool, and will extend the entire length of the Process, either vertically or horizontally (see on page 305). Lanes are used to organize and categorize Activities.	Name Name
Data Object	Data Objects provide information about what Activities require to be performed and/or what they produce (see page 205), Data Objects can represent a singular object or a collection of objects. Data Input and Data Output provide the same information for Processes.	
Message	A Message is used to depict the contents of a communication between two <i>Participants</i> (as defined by a business PartnerRole or a business PartnerEntity—see on page 93).	
Group (a box around a group of objects within the same category)	A Group is a grouping of graphical elements that are within the same Category (see page 70). This type of grouping does not affect the Sequence Flows within the Group. The Category name appears on the diagram as the group label. Categories can be used for documentation or analysis purposes. Groups are one way in which Categories of objects can be visually displayed on the diagram.	
Text Annotation (attached with an Association)	Text Annotations are a mechanism for a modeler to provide additional text information for the reader of a BPMN Diagram (see page 71).	Descriptive Text Here

Figure 19: Basic Signavio symbols

By applying the basic BPMN structure with this notation a process diagram would look like the one in the next figure.





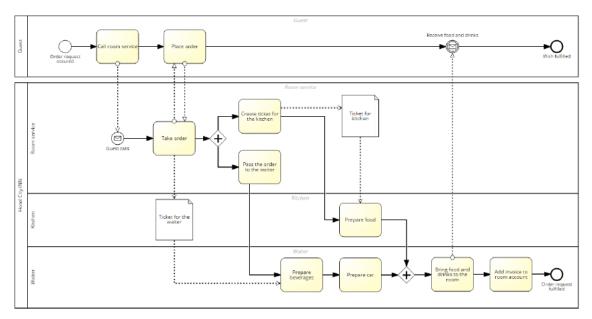


Figure 20: Signavio process diagram

3.1.3. Benefits

The benefits that Signavio provides are that it enables companies to easily automate workflows, optimize planning strategically by using the assets in an intelligent way and to provide transparency for the processes.

3.2. Odoo

3.2.1. Definition

Odoo is a free and open-source integrated business management system (ERP) that is capable of managing all areas of the company.

The ERP (Enterprise Resource Planning) are systems that centralize the data of the different departments of the company with the information from the different areas integrated. This allows a better management of business strategy and information analysis and a more effective management and optimization of its resources.

In Odoo, in order to achieve those requirements, there are multiple modules that are easily connected thanks to the document module. Also, the platform is multi-currency, multi-company and multi-accounting.

The basic modules that are commonly implemented are inventory, finances (accounting, expenses), RRHH (employees, timesheets, appraisal), CRM (Customer Relationship Management) and sales.







Figure 21: Odoo modules

3.2.2. Benefits

The benefits that Odoo provides are that it allows to efficiently manage the projects, products, clients and staff of a business while being flexible and adjusting to the needs since it allows to customize the user interface having the specific modules that are needed, adding or eliminating modules to adapt to the needs of the business and to configure them independently. Also, the software can be run via the web which is very convenient.

A preproduction Odoo can be implemented, so that the different customizations do not affect the workflow while being tested.

3.3. <u>ServiceDesk</u>

3.3.1. Definition

Service Desk is an IT service management software that could be seen as the sole point of contact for customers and it provides a high-quality support service for both infrastructure and customers. It is considered the first level of technical support.

It registers and administrates all the incidents, problems and requests that affect the service delivered to businesses and their customers, making an initial assessment and referring them to a person who can attend them. It also takes care of closing and verification. Thanks to that it keeps clients informed about situations that may affect your ability to perform their daily activities and their requirements.

It manages its tasks using a ticket request system that are delivered by users when a problem arises. These can be categorized in different ways, depending on what is taken into account the tool or the department. By using those tickets, the support is given to the users as they require, optimizing the resources. Customers can view the current status of their ticket at any time through a self-service portal.

3.3.2. Benefits

The benefits that Service Desk provides are that it reduces the cost of ownership of supporting IT and support infrastructure thanks to the efficient allocation of resources and





the centralization of processes, which improves the management of information and communication. It also ensures customer satisfaction and long-term retention due to the fact that it is more customer oriented and gives better customer service with more quality and speed in the resolution of requests, which results in a higher degree of satisfaction.





4. Results

4.1. Process modelling

This process and sub-process modelling have been done by applying all the standards and normatives that have been explained among this thesis, taking into account the needs and priorities of Afr-ix telecom.

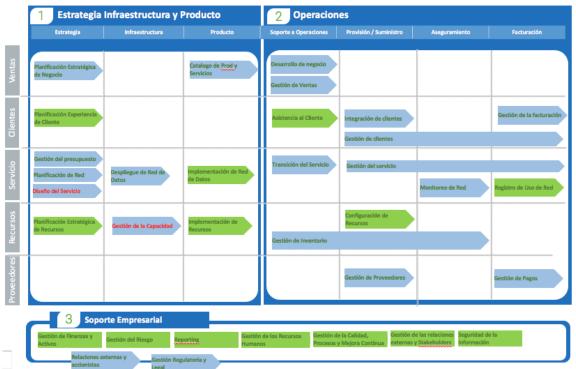


Figure 22: Process modelling

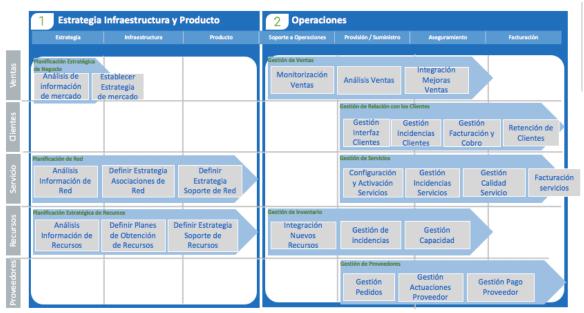


Figure 23: Sub-process modelling





4.2. Process prioritization

All the existing processes following the eTOM standard have been prioritized (with a priority equal to zero in case they do not apply), although the three more relevant categories for Afr-ix nowadays are Marketing and Sales, Service and Engaged Party.

Marketing and Sales

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1 Marketing / 1	2 Market Strategy & Policy	3	Gather & Analyze Market Information	4	Garther Market Information	
					Analize Market Information	
			Establish Market Stategy		Establish Market Participation	_
				_	Establish Market Strategy Objetives	_
				_	Support Market Strategy Identify Entresprise areas to meet market strategy objetives	_
			Establish Market Segments	_	Identify Market Segments	_
			- Company of the Comp		Manage Market Segments outcome	_
					Reporting - Specific Market Segments	
			Link Market Segments & Products		Link consumiption profiles & available products families	
					identify potencial new product families for market segments	
					Analyze Market Segpment purchase and issues	
			Gain Commitment to Marketing Strategy		Identify stakeholders to Market Strategy	
					Gain Market Strategy Stakeholder approval	
	Color Charles - O Discolor		Develop Color Deletionship	-	Gain Entrerprise Commitment to Market Strategy	_
	Sales Strategy & Planning		Develop Sales Relationship Establish Sales Budget	-		_
			Establish Sales Goals and Measures	_		_
			Develop Sales Channel Strategy			_
			Establish Revenue Converage Plan			
	Sales Forecasting		Set Sales Forecast Goal			
			Gather Forecast Data		Gather Industry Forescat Data	
					Gather Environmental Forescat Data	
			Develop Sales Forecast		Choose Forecast Model	
					Analyse Forecast Data	
					Prepare Sales Forecast	
			Distribute Sales Forecast	-	Approve Sales Forecast	_
		-	Evaluate Sales Forecast Outcomes	-		_
	Brand Management		Child process(es) to be dertermined	_		_
	Market Research		Child process(es) to be dertermined Child process(es) to be dertermined	_		_
	Sales Development		Monitor Sales & Channel Best Practice	_	Develop Sales & Channel Requeriments	_
	Sues bevelopment		World Sales & Charmer Sest Plactice		Monitor Sales & Channel Practices	_
			Develop Sales & Channel Proposals		Create Sales Proposals	\neg
					Gain Sales Proposals Approval	
			Develop New Sales Channels & Processes		Develop External Relationships	
					Manage Process & Channel Coordination	
					Define Processes & Channels	
	Advertising		Child process(es) to be dertermined			_
	Marketing Campaign Managment		Plan Marketing Campaign			
			Enseure Marketing Compaign Capability			
			Develop Marketing Campaign		Create Marketing Campaign	
					Define Marketing Campaign Criteria	
					Define Marketing Campaign Proposition	
					Design Marketing Campaign Workflow	_
			Launch Marketing Campaign		Obtain Marketing Campaign Agreement Manage Marketing Campaign Channel Capability	_
			Laurich Walketing Campaign		Manage Marketing Campaign Channel Resources	_
					Complete Marketing Campaign Launch	
			Monitor Marketing Campaign Effectiveness		Develop Marketing Campaign Metrics	
					Gather Marketing Campaign Metrics	
					Analyze Marketing Campaign Metrics	
					Suggest Marketing Campaign Change	
			Modify Marketing Campaign			
			End Marketing Campaign	-		-
	Manhatina Campanini at Inc.	_	Undetake Marketing Campaigns Trend Analys	ils		_
	Marketing Communications	-	Define Marketing Communications Strategy Ensure Marketing Communication Capability	-		-
		-	Develop Marketing Communication Capability	_	Develop Marketing Communication Message	_
			and the state of t	_	Select Marketing Communication Delivery Channels	+
					Produce Marketing Communication Collateral	_
					Customize Marketing Communication Collateral	-
			Deliver Marketing Communication Collateral			
			Deliver Marketing Communication Collateral		Customize Marketing Communication Collateral	
			-		Customize Marketing Communication Collateral Manage Marketing Communication Channel Capability Manage Marketing Communication Channel Resources Issue Marketing Communication	
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	Market Sales Support & Readiness		Monitor Marketing Communication Effectiven Modify Marketing Communication Archive Marketing Communication Undertake Marketing Communications Trend / Support Selling		Customize Marketing Communication Collateral Manage Marketing Communication Channel Capability Manage Marketing Communication Channel Resources Issue Marketing Communication Develop Marketing Communication Metrics Gather Marketing Communication Metrics Analyze Marketing Communication Metrics Suggest Marketing Communication Metrics Suggest Marketing Communication Metrics Figure Selling Communication Metrics Manage Sales Leads Undertake Selling Trend Analysis	
	Market Sales Support & Readiness		Monitor Marketing Communication Effectiven Modify Marketing Communication Archive Marketing Communication Undertake Marketing Communications Trend.		Customize Marketing Communication Collateral Manage Marketing Communication Channel Capability Manage Marketing Communication Channel Resources Issue Marketing Communication Develop Marketing Communication Metrics Gather Marketing Communication Metrics Analyze Marketing Communication Metrics Suggest Marketing Communication Change Ensure Selling Capability Manage Sales Channels Manage Sales Leads	
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	Market Sales Support & Readiness		Monitor Marketing Communication Effectiven Modify Marketing Communication Archive Marketing Communication Undertake Marketing Communications Trend / Support Selling		Customize Marketing Communication Collateral Manage Marketing Communication Channel Capability Manage Marketing Communication Channel Resources Issue Marketing Communication Develop Marketing Communication Metrics Gather Marketing Communication Metrics Analyze Marketing Communication Metrics Suggest Marketing Communication Metrics Suggest Marketing Communication Change Ensure Selling Capability Manage Sales Leads Undertake Selling Trend Analysis Identify Relevant Sales Inventory Information	
	Market Sales Support & Readiness		Monitor Marketing Communication Effectiven Modify Marketing Communication Archive Marketing Communication Undertake Marketing Communications Trend / Support Selling		Customize Marketing Communication Collateral Manage Marketing Communication Channel Capability Manage Marketing Communication Channel Resources Issue Marketing Communication Develop Marketing Communication Metrics Gather Marketing Communication Metrics Analyze Marketing Communication Metrics Suggest Marketing Communication Metrics Suggest Marketing Communication Change Ensure Selling Capability Manage Sales Leads Undertake Selling Trend Analysis Identify Relevant Sales Inventory Information Ensure Sales Inventory Data Quality Maintain Sales Inventory Data Quality Maintain Sales Inventory Usage Track Sales Inventory Usage	
	Market Sales Support & Readiness		Monitor Marketing Communication Effectiven Modify Marketing Communication Archive Marketing Communication Undertake Marketing Communications Trend / Support Selling		Customize Marketing Communication Collateral Manage Marketing Communication Channel Capability Manage Marketing Communication Channel Resources Issue Marketing Communication Develop Marketing Communication Metrics Gather Marketing Communication Metrics Analyze Marketing Communication Metrics Suggest Marketing Communication Metrics Suggest Marketing Communication Change Ensure Selling Capability Manage Sales Leads Undertake Selling Trend Analysis Identify Relevant Sales Inventory Information Ensure Sales Inventory Tota Quality Maintain Sales Inventory Totalities	





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	Selling	Quality Opportunity	Define Alternative/Customized Solutions	1
			Assess Potential Development & Risk	
			Assess Strategic Impacts	
		Manage Sales Accounts	Contact Customer (on regular basis)	
			Develop Contacts & Leads	
			Update Sales Repository	
		Negotiate Sales / Contract	Negotiate Standard Terms & Conditions	
			Develop & Negotiate Non-standard Terms & Conditions	
			Obtain Customer Agreement	
			Create Customer Order	
		Cross / UP Selling	Analyze Customer Trends	
			Recommend Appropriate Offerings	
		Acquire Customer Data	Determine Required Customer Data	
			Capture & Record Customer Data	
		Develop Sales Proposal	Ascertain Customer Requirements	
			Determine Support for Customer Requirements	
			Develop Proposal against Customer Requirements	
	Contact/Lead/Prospect Management	Manage Contract	Identify Contact	1
			Develop Contact	
			Maintain Contact Information	
		Track Lead	Track Marketing Lead	
			Evaluate Marketing Lead	
		Manage Prospect	Analyze Prospect Needs	
			Identify Potential Solutions	
			Assign Prospect to Sales Channel	
			Track & Report Prospect	
	Market Performance Management	Child process(es) to be dertermined		0
	Sales Performance Management	Set Sales Performance Goals		5
		Track/ Monitor Sales Performance		
		Analyse Sales Performance		
		Report On Sales Performance		
		Improve Sales Performance		

Product

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				Establish Product Portfolio Strategy		Define Overall Product Portfolios Structure	
			_	Listabilish Froduct Fortiono Strategy		Implement Product Portfolio Management Functions	
			-	Produce Product Portfolio Business Plans		Co-ordinate Product Business Plans	
				Produce Product Portiono Dusiness Plans		Develop Revenue/Cost Projections	
				-	_	Develop Product Portfolio Forecasts	_
				-		Develop Product Performance Requirements	
			_	-		Negotiate Product Business Plan Resources	
			_	-		Develop Product Operational Requirements	
			_	-		Develop Outline Market Strategy	
			-	-		Gain Business Plan Commitment and Approval	
			_	-		Develop Product Pricing Strategy	
			-	-	_	Communicate Business Plans	
			-	Gain Commitment to Product Business Plans	_		
			-	Gain Commitment to Product Business Plans	_	Identify Stakeholders to Product Business plans	
				-		Gain Product Business Plans Stakeholders Approval	
						Gain Enterprise Commitment to Product Business plans	
		Product & Offer Capability Delivery		Define Product Capability Requirements		Capture Product Infrastructure Requirements	
			-			Agree Product Infrastructure Requirements	
			-			Report Product Infrastructure Requirements	
				Manage Handover to Product Operations		Co-ordinate Product Operational Handover	
			_			Validate Product Infrastructure Design	
						Ensure Product Handover Support	
				Capture Product Capability Shortfalls		Capture Product Capacity Shortfalls	
						Capture Product Performance Shortfalls	
						Capture Product Operational Support Shortfalls	
				Approve Product Business Case		Develop Product Business Case	
						Gain Product Business Case Approval	
				Manage Product Capability Delivery Methodol	ogy	Define Product Capability Delivery Methodology	
						Maintain Product Capability Delivery Repository	
				Deliver Product Capability		Co-ordinate Product Capability Delivery	
						Track Product Capability Business Case Costs	
						Ensure Product Capability Benefits & Operational Costs	
		Product Capacity Management		Develop Product Capacity			
				Develop Product Capacity Demand			
	ì	1	1	Develop Froduct Capacity Demand	1		
		Product Specification & Offering Developm	ent & Retireme	Product Specification Development & Retire	ment	Gather & Analyze New Product Specification Ideas	
						Develop New Product Specification Business Proposal	
				1		7	
				7		7	
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				\dashv	-	Develop Detailed Product Specification	
				-	-	Manage Product Specification Development	
			-	\dashv	_	Remove Product Specification	





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						Product Offering Pricing		
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						Product Offering Cataloging		
						Product Offering Agreement Management		
						Product Offering Prototyping		
						Product Offering Promotion Development		
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		Product Support & Readiness		Support Customer QoS/SLA		Ensure Customer QoS/SLA Capability		4
				Manage Product Offering Inventory		Identify Relevant Product Offering Inventory Information		_
						Ensure Product Offering Inventory Data Quality		_
						Maintain Product Offering Inventory facilities		_
						Track Product Offering Inventory Usage		_
						Manage Product Offering Inventory Capture		_
						Identify Product Offering Inventory Shortcomings		
						Control Product Offering Inventory Access		
		Product Configuration Management						0
l L		Product Performance Management		Log Product Offering Analysis Results				2
				Monitor Product Offerings				
				Agree Service Outages				
				Monitoring Product Offering Performance Ana				
				Track Customer QoS/SLA Management Process	Capabili	ty		
				Aggregate QoS Performance Analysis				
				Manage Customer QoS/SLA Management Notif	ication			
				Assist Trend Analysis Development				
				Undertake QoS/SLA Performance Trend Analysi	is			

Customer

I-IX cor	n 🕏				Inventario de Proc	esos		
tom ID		ID Ma	Macroproceso	ID PR	Proceso	ld Sub	Subproceso	Priori
								_
3	Customer	-	Customer Experience Management Strategy and	Planni 3		4		-
	-	\vdash	Customer Support & Readiness	_	Support Retention & Loyalty		Ensure Retention & Loyalty Capability	—
	-						Undertake Retention & Loyalty Trend Analysis	├
	-			_	Support Customer Interface Management		Ensure Customer Interface Capability	—
	-			_			Undertake Customer Contacts Trend Analysis	—
	-			-	Support Bill Payments & Receivables Managemen	t	Determine Bill Payments & Receivables Management Capability	├
				-	-		Analyze Customer Payment Trend	—
				_			Administer Customer Payment Processes	—
	-				Support Order Handling		Roll-out Order Handling Infrastructure	├
	-				-		Ensure Order Handling Capability	-
					-		Detect Order Handling infrastructure Shortfalls	-
	-				-		Forecast Order Handling Requirements	
	-				-		Rebalance Order Handling Infrastructure Utilization	—
					-		Capacity Plan Order Handling Infrastructure	
	-				-		Remove Order Handling Infrastructure	
					-		Manage Order Handling Organizational Changes	—
							Report Order Handling Infrastructure Capacity	—
					_		Support Order Handling Infrastructure Deployment	
					_		Track Third-Party Order Handling Infrastructure Deployment	
							Approve Order Handling Procedures	
							Report Order Handling Infrastructure Deployment Process Capability	
							Accept Order Handling Infrastructure	
							Manage Order Handling Notification	
]						Address Order Handling infrastructure Issues	
							Undertake Order Handling Trend Analysis	
					Support Bill Inquiry Handling		Determine Bill Inquiry Handling Capability	
]						Manage Billing Policy	
							Analyze Bill Inquiry Trend	
					Support Problem Handling		Ensure Product Offering Operation	
							Request Provisioning Intervention	
							Undertake Product Offering Trend Analysis	
							Report Product Offering Trend Analysis	
							Request Product Offering Data Collection	
							Track Problem Handling Process Capability	
							Request Product Offering Performance Testing	
							Manage Problem Handling Notification	
							Manage Product Offering Maintenance Programs	
	1				1		Undertake Problem Handling Trend Analysis	
	1	1			Support Charging			





		Manage Customer Inventory	Identify Relevant Customer Inventory Information	
		ividiage customer inventory	Maintain Customer Inventory facilities	-
			Manage Customer Inventory Capture	-
			Control Customer Inventory Access	-
			Ensure Customer Inventory Data Quality	-
			Track Customer Inventory Usage	-
			Identify Customer Inventory Shortcomings	-
		Support Manage Billing Events	identify Customer inventory Shortcomings	-
		Support Bill Invoice Management	Determine Bill Invoice Management Capability	-
		Support bill invoice management	Establish & Maintain Bill Invoice Format	-
			Maintain Bill Customers List	-
			Define Billing Cycle	-
			Analyze Billing Trend	-
			Design & Develop Invoicing Process	-
		Support Manage Balance	beign a bereap involving rioces	-
	Customer Experience Management	Customer Experience Maturity Asses	sment	\neg
	Customer Experience management	Mapping and Analysis of Experience		-
		inapping and renalists of Experience	Section 19	-
			Record Journey	\neg
			Analyze Journey	\neg
				-
			Measure Customer Experience Improvements	
	Order Handling	Determine Customer Order Feasibility		\neg
		Issue Customer Orders	Assess Customer Order	
			Issue Customer Order	
		Authorize Credit		
		Report Customer Order Handling	Monitor Customer Order Status	
			Manage Customer Order Status Notification	
			Report Customer Order Status	
		Track & Manage Customer Order Han		
			Track Customer Order	
			Update Order Repository	
		Close Customer Order		
		Complete Customer Order		
				—ʻ⊢
	Customer Interaction Management	Notify Customer		-
		Create Customer Interaction		$ \vdash$
		Track and Manage Customer Interac	tion	-
		Update Customer Interaction		-
		Report Customer Interaction		-
		Close Customer Interaction Authenticate User		$ \vdash$
		Log Customer Interaction		-
		Customer Interaction Customer Interface Management	Manage Request (Including Self Service)	$ \vdash$
		Customer interface management	manage request (including sen service)	-
			Analyze & Report on Customer	\neg
				-
			Mediate & Orchestrate Customer Interactions	\neg
				$\neg \vdash$
	Customer Management	Enable Retention & Loyalty	Build Customer Insight	$\neg \vdash$
			Analyze & Manage Customer Risk	
			Personalize Customer Profile for Retention & Loyalty	
			Validate Customer Satisfaction	
				$ \!$
		Establish Customer Relationship	Verify Customer	——
			Issue Unique Customer ID	—I—
			Establish New Customer Identity	——
			Clean-up & Archive Customer Identifying Information	——
		\vdash	Gather Authentication Information	——
			De-duplicate Customer Identity	
		Re-establish Customer Relationship		
		Terminate Customer Relationship		— —
	Customer Information Management	Create Customer Record		$ \vdash$
		Update Customer Data		$ \vdash$
		Notify Customer Data Change		$-\!$
1 1		Archive Customer Data		$-\!$
		Build a unified customer view	- - - - - - - - - -	— —
	Problem Handling	Create Customer Problem Report		
		Isolate Customer Problem	I I	
		Report Customer Problem		$ \vdash$
		Report Customer Problem Track & Manage Customer Problem		上
		Report Customer Problem		丰





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\vdash			Customer QoS/SLA Management		Assess Customer OoS/SI A Performance		Collect OoS Information	├
			Customer QoS/SLA Management	+	Assess Customer QoS/SLA Performance		Collect QoS Information	\vdash
-							Convert QoS Information Check QoS Thresholds Met	\vdash
				_				-
				\vdash			Maintain Overview of Product Offering Quality	\vdash
							Prepare/Follow-up for Performance Reviews	-
				_			Carry Out Performance Reviews	⊢
					Track & Manage Customer QoS Performance Res	olution	Update Customer QoS Report with Analysis Results	
							Cancel Customer QoS Report	
							Co-ordinate Customer QoS Analysis, Restoration & Repair	
							Escalate/End Customer QoS Report	
							Engage External Product Suppliers	
							Modify Customer QoS Report Information	
							Clear Customer QoS Report Status	_
							Modify Customer QoS Report Status	—
				_				_
				_	Manage QoS/SLA Violation		Analyze QoS Violation	-
				-			Take QoS Violation Action	⊢
$\overline{}$				-			Follow-up QoS Violation Action	⊢
				_			Inform Customer on QoS Impacts	⊢
					Report Customer QoS Performance		Monitor Customer QoS Report Status	Ь—
							Notify Changes on Customer QoS Report Status	Ь—
							Distribute Customer QoS/SLA Management Reports & Summaries	<u> </u>
					Close Customer QoS Performance Degradation R	eport		<u></u>
					Create Customer QoS Performance Degradation I	Report	Create Customer QoS Report	
							Modify Customer QoS Report	
							Request Cancellation of Customer QoS Report	
			Bill Invoice Management		Apply Pricing, Discounting, Adjustments & Rebat	es	Obtain Billing Events	
-					, , , , , , , , , , , , , , , , , , ,		Apply Pricing, Discounting, Adjustments & Rebates to Customer Accoun	
							Apply Agreed Customer Bill Adjustment	\vdash
					Create Customer Bill Invoice			
				\vdash	create customer alli invoice	-	Render & Format Invoice	—
				-			Deliver Electronic Invoice	\vdash
				-			Verify Invoice Quality	⊢
				\vdash			Manage Customer Invoice Archive	\vdash
				-	Produce & Distribute Bill		Co-ordinate Billing Insertion	⊢
				_			Establish & Manage Bill Production Cycle	⊢
							Deliver Invoice Information	⊢
							Administer Commercial Arrangement for Production and Distribution Ca	ability
							Manage Paper and Envelope Availability	
							Manage Production Run to Create Bill	
							Manage Physical Production & Distribution Quality	
							manage rinysical riounicum of distribution quality	
			Bill Inquiry Handling		Create Customer Bill Inquiry Report		Generate Customer Bill Inquiry	
							Convert Customer Bill Inquiry	
							Request Additional Bill Inquiry Information	
					Assess Customer Bill Inquiry Report		Verify Customer Bill Inquiry	
							Assess and Investigate Customer Bill Inquiry	-
					-		Identify Customer Bill Inquiry Root Cause	-
				_				-
						_	Complete Customer Bill Inquiry Assessment	-
					Authorize Customer Bill Invoice Adjustment	_	Determine Automated Bill Adjustment	—
							Analyze Detailed Bill Inquiry	—
							Record Customer Bill Invoice Adjustment	—
					Track & Manage Customer Bill Inquiry Resolution		Schedule Customer Bill Inquiry Analysis and Adjustment Activities	—
							Assign Customer Bill Inquiry Analysis and Adjustment Activities	
							Modify Customer Bill Inquiry	
							Coordinate Customer Bill Inquiry Analysis and Adjustment Activities	
							Cancel Customer Bill Inquiry	
							Monitor Customer Bill Inquiry Jeopardy Status	
					1		Initiate S/P Customer Bill Inquiry Resolution Request	
-					Report Customer Bill Inquiry		Monitor Customer Bill Inquiries	
							Provide Customer Bill Inquiry Change Notification	\top
					1		Provide Management Reports	-
					Close Customer Bill Inquiry Report	_		_
		_		_	and a surround our inquity neport			1
			Charrier		Borform Botion			┈
			Charging		Perform Rating			
			Charging		Apply Rate Level Discounts			E
			Charging		Apply Rate Level Discounts Aggregate Items For Charging			
			Charging		Apply Rate Level Discounts Aggregate Items For Charging Manage Customer Charging Hierarchy			
					Apply Rate Level Discounts Aggregate Items For Charging Manage Customer Charging Hierarchy Provide Advice of Charge/Rate			
			Charging Bill Payments & Receivables Management		Apply Rate Level Discounts Aggregate Items For Charging Manage Customer Charging Hierarchy Provide Advice of Charge/Rate Manage Customer Billing			
					Apply Rate Level Discounts Aggregate Items For Charging Manage Customer Charging Hierarchy Provide Advice of Charge/Rate		Manage Customer Payment Plan	
					Apply Rate Level Discounts Aggregate Items For Charging Manage Customer Charging Hierarchy Provide Advice of Charge/Rate Manage Customer Billing		Manage Customer Payment Plan Collect Customer Payment	
					Apply Rate Level Discounts Aggregate Items For Charging Manage Customer Charging Hierarchy Provide Advice of Charge/Rate Manage Customer Billing			
					Apply Rate Level Discounts Aggregate Items For Charging Manage Customer Charging Hierarchy Provide Advice of Charge/Rate Manage Customer Billing		Collect Customer Payment	
					Apply Rate Level Discounts Aggregate Items For Charging Manage Customer Charging Hierarchy Provide Advice of Charge/Rate Manage Customer Billing		Collect Customer Payment Reconcile Customer Payment Manage Back-End Bank Account	
					Apply Rate Level Discounts Aggregate items For Charging Manage Customer Charging Hierarchy Provide Advice of Charge/Rate Manage Customer Billing Manage Customer Payments		Collect Customer Payment Reconcile Customer Payment Manage Back-End Bank Account Administer Commercial Arrangement for Third Party Supplier	
					Apply Rate Level Discounts Aggregate Items For Charging Manage Customer Charging Hierarchy Provide Advice of Charge/Rate Manage Customer Billing		Collect Customer Payment Reconcile Customer Payment Manage Back-End Bank Account Administer Commercial Arrangement for Third Party Supplier Initiate Customer Debt Recovery Activities	
					Apply Rate Level Discounts Aggregate items For Charging Manage Customer Charging Hierarchy Provide Advice of Charge/Rate Manage Customer Billing Manage Customer Payments		Collect Customer Payment Reconcile Customer Payment Manage Back-Ind Bank Account Administer Commercial Arrangement for Third Party Supplier Initiate Customer Debt Recovery Activities Identify Overdue Invoice	
					Apply Rate Level Discounts Aggregate items For Charging Manage Customer Charging Hierarchy Provide Advice of Charge/Rate Manage Customer Billing Manage Customer Payments		Collect Customer Payment Reconcile Customer Payment Manage Back-Ind Bank Account Administer Commercial Arrangement for Third Party Supplier Initiate Customer Debt Recovery Activities Identify Overdue Invoice Manage Aged Customer Debt Portfolio	
					Apply Rate Level Discounts Aggregate items For Charging Manage Customer Charging Hierarchy Provide Advice of Charge/Rate Manage Customer Billing Manage Customer Payments		Collect Customer Payment Reconcile Customer Payment Manage Back-End Bank Account Administer Commercial Arrangement for Third Party Supplier Initiate Customer Debt Recovery Activities Identify Overdue Invoice Manage Aged Customer Debt Portfolio Administer Overdue Invoice Follow-Up	
					Apply Rate Level Discounts Aggregate items For Charging Manage Customer Charging Hierarchy Provide Advice of Charge/Rate Manage Customer Billing Manage Customer Payments		Collect Customer Payment Reconcile Customer Payment Manage Back-Find Bank Account Administer Commercial Arrangement for Third Party Supplier Initiate Customer Debt Recovery Activities Identify Overdue Invoice Manage Aged Customer Debt Portfolio Administer Overdue Invoice Follow-Up Establish & Manage Customer Debt Profiles	
			Bill Payments & Receivables Management		Apply Rate Level Discounts Aggregate items For Charging Manage Customer Charging Hierarchy Provide Advice of Charge/Rate Manage Customer Billing Manage Customer Payments Manage Customer Debt Collection		Collect Customer Payment Reconcile Customer Payment Manage Back-End Bank Account Administer Commercial Arrangement for Third Party Supplier Initiate Customer Debt Recovery Activities Identify Overdue Invoice Manage Aged Customer Debt Portfolio Administer Overdue Invoice Follow-Up Establish & Manage Customer Debt Portfolio Manage Cwellow Invoice Payment Manage Chapter Invoice Payment	
					Apply Rate Level Discounts Aggregate items For Charging Manage Customer Charging Hierarchy Provide Advice of Charge/Rate Manage Customer Billing Manage Customer Payments		Collect Customer Payment Reconcile Customer Payment Manage Back-Ind Bank Account Administer Commercial Arrangement for Third Party Supplier Initiate Customer Debt Recovery Activities Identify Overdue Invoice Manage Aged Customer Debt Portfolio Administer Overdue Invoice Follow-Up Establish & Manage Customer Debt Profiles Manage Overdue Invoice Payment Add Billing Event Data	
			Bill Payments & Receivables Management		Apply Rate Level Discounts Aggregate items For Charging Manage Customer Charging Hierarchy Provide Advice of Charge/Rate Manage Customer Billing Manage Customer Payments Manage Customer Debt Collection		Collect Customer Payment Reconcile Customer Payment Manage Back-End Bank Account Administer Commercial Arrangement for Third Party Supplier Initiate Customer Debt Recovery Activities Identify Overdue Invoice Manage Aged Customer Debt Portfolio Administer Overdue Invoice Follow-Up Establish & Manage Customer Debt Portfolio Manage Cwellow Invoice Payment Manage Chapter Invoice Payment	
			Bill Payments & Receivables Management		Apply Rate Level Discounts Aggregate items For Charging Manage Customer Charging Hierarchy Provide Advice of Charge/Rate Manage Customer Billing Manage Customer Payments Manage Customer Debt Collection		Collect Customer Payment Reconcile Customer Payment Manage Back-Ind Bank Account Administer Commercial Arrangement for Third Party Supplier Initiate Customer Debt Recovery Activities Identify Overdue Invoice Manage Aged Customer Debt Portfolio Administer Overdue Invoice Follow-Up Establish & Manage Customer Debt Profiles Manage Overdue Invoice Payment Add Billing Event Data	
			Bill Payments & Receivables Management		Apply Rate Level Discounts Aggregate Items For Charging Manage Customer Charging Hierarchy Provide Advice of Charge/Rate Manage Customer Billing Manage Customer Payments Manage Customer Debt Collection		Collect Customer Payment Reconcile Customer Payment Manage Back-End Bank Account Administer Commercial Arrangement for Third Party Supplier Initiate customer Debt Recovery Activities Identify Overdue Invoice Manage Aged Customer Debt Portfolio Administer Overdue Invoice Follow-Up Establish & Manage Customer Debt Profiles Manage Overdue Invoice Payment Add Billing Event Data Assign Billing Event Data Ensure Billing Event Data Ensure Billing Event Data Ensure Billing Event Usage	
			Bill Payments & Receivables Management		Apply Rate Level Discounts Aggregate Rems For Charging Manage Customer Charging Hierarchy Provide Advice of Charge/Rate Manage Customer Billing Manage Customer Billing Manage Customer Payments Manage Customer Payments		Collect Customer Payment Reconcile Customer Payment Manage Back-Ind Bank Account Administer Commercial Arrangement for Third Party Supplier Initiate Customer Debt Recovery Activities Identify Overdue Invoice Manage Aged Customer Debt Portfolio Administer Overdue Invoice Follow-Up Establish & Manage Customer Debt Profiles Manage Overdue Invoice Fayment Add Billing Event Data Assign Billing Event Price Ensure Billing Event Usage Distribute Billing Event	
			Bill Payments & Receivables Management		Apply Rate Level Discounts Aggregate Items For Charging Manage Customer Charging Hierarchy Provide Advice of Charge/Rate Manage Customer Billing Manage Customer Payments Manage Customer Debt Collection		Collect Customer Payment Reconcile Customer Payment Manage Back-Ind Bank Account Administer Commercial Arrangement for Third Party Supplier Initiate Customer Debt Recovery Activities Identify Overdue Invoice Manage Aged Customer Debt Portfolio Administer Overdue Invoice Manage Aged Customer Debt Portfolio Administer Overdue Invoice Follow-Up Establish & Manage Customer Debt Profiles Manage Overdue Invoice Payment Add Billing Event Data Assign Billing Event Data Ensure Billing Event Usage Distribute Billing Event Edit Billing Event Edit Billing Event Edit Billing Event	
			Bill Payments & Receivables Management		Apply Rate Level Discounts Aggregate items For Charging Manage Customer Charging Hierarchy Provide Advice of Charge/Rate Manage Customer Billing Manage Customer Billing Manage Customer Payments Manage Customer Debt Collection Enrich Billing Events Guide Billing Events Mediate Billing Events		Collect Customer Payment Manage Back-End Bank Account Administer Commercial Arrangement for Third Party Supplier Initiate Customer Debt Recovery Activities Identify Overdue Invoice Manage Aged Customer Debt Portfolio Administer Overdue Invoice Pollow-Up Establish & Manage Customer Debt Portfolio Administer Overdue Invoice Pollow-Up Establish & Manage Customer Debt Profiles Manage Overdue Invoice Payment Add Billing Event Dotal Assign Billing Event Price Ensure Billing Event Usage Distribute Billing Event Edit Billing Event Edit Billing Event	
			Bill Payments & Receivables Management		Apply Rate Level Discounts Aggregate Rems For Charging Manage Customer Charging Hierarchy Provide Advice of Charge/Rate Manage Customer Billing Manage Customer Billing Manage Customer Payments Manage Customer Payments		Collect Customer Payment Reconcile Customer Payment Manage Back-Ind Bank Account Administer Commercial Arrangement for Third Party Supplier Initiate Customer Debt Recovery Activities Identify Overdue Invoice Manage Aged Customer Debt Portfolio Administer Overdue Invoice Follow-Up Establish & Manage Customer Debt Profiles Manage Overdue Invoice Payment Add Billing Event Data Assign Billing Event Usage Distribute Billing Event Edit Billing Event Edit Billing Event Reformat Billing Event Report	
			Bill Payments & Receivables Management		Apply Rate Level Discounts Aggregate items For Charging Manage Customer Charging Hierarchy Provide Advice of Charge/Rate Manage Customer Billing Manage Customer Billing Manage Customer Payments Manage Customer Debt Collection Enrich Billing Events Guide Billing Events Mediate Billing Events		Collect Customer Payment Reconcile Customer Payment Manage Back-End Bank Account Administer Commercial Arrangement for Third Party Supplier Initiate customer Debt Recovery Activities Identify Overdue Invoice Manage Aged Customer Debt Portfolio Administer Overdue Invoice Follow-Up Establish & Manage Customer Debt Portfolio Manage Overdue Invoice Follow-Up Establish & Manage Customer Debt Profiles Manage Overdue Invoice Payment Add Billing Event Data Assign Billing Event Data Lossure Billing Event Usage Distribute Billing Event Edit Billing Event Reformat Billing Event Reformat Billing Event Generate Billing Event Reformat Billing Event Investigate Billing Event Report Investigate Billing Event Related Problem	
			Bill Payments & Receivables Management		Apply Rate Level Discounts Aggregate Rems For Charging Manage Customer Charging Hierarchy Provide Advice of Charge/Rate Manage Customer Billing Manage Customer Billing Manage Customer Payments Manage Customer Debt Collection Enrich Billing Events Guide Billing Events Mediate Billing Events		Collect Customer Payment Reconcile Customer Payment Manage Back-Ind Bank Account Administer Commercial Arrangement for Third Party Supplier Initiate Customer Debt Recovery Activities Identify Overdue Invoice Manage Aged Customer Debt Portfolio Administer Overdue Invoice Follow-Up Establish & Manage Customer Debt Profiles Manage Overdue Invoice Payment Add Billing Event Data Assign Billing Event Usage Distribute Billing Event Edit Billing Event Edit Billing Event Reformat Billing Event Report	
			Bill Payments & Receivables Management Manage Billing Events		Apply Rate Level Discounts Aggregate Rems For Charging Manage Customer Charging Hierarchy Provide Advice of Charge/Rate Manage Customer Billing Manage Customer Billing Manage Customer Debt Collection Manage Customer Debt Collection Enrich Billing Events Guide Billing Events Mediate Billing Events Mediate Billing Events Mediate Rilling Events Report Billing Event Records		Collect Customer Payment Reconcile Customer Payment Manage Back-End Bank Account Administer Commercial Arrangement for Third Party Supplier Initiate customer Debt Recovery Activities Identify Overdue Invoice Manage Aged Customer Debt Portfolio Administer Overdue Invoice Follow-Up Establish & Manage Customer Debt Portfolio Manage Overdue Invoice Follow-Up Establish & Manage Customer Debt Profiles Manage Overdue Invoice Payment Add Billing Event Data Assign Billing Event Data Lossure Billing Event Usage Distribute Billing Event Edit Billing Event Reformat Billing Event Reformat Billing Event Generate Billing Event Reformat Billing Event Investigate Billing Event Report Investigate Billing Event Related Problem	
	-	3	Bill Payments & Receivables Management		Apphy Rate Level Discounts Aggregate Rems For Charging Manage Customer Charging Hierarchy Provide Advice of Charge/Rate Manage Customer Billing Manage Customer Billing Manage Customer Debt Collection Manage Customer Debt Collection Enrich Billing Events Guide Billing Events Mediate Billing Events Mediate Billing Events Mediate Billing Event Records		Collect Customer Payment Reconcile Customer Payment Manage Back-End Bank Account Administer Commercial Arrangement for Third Party Supplier Initiate customer Debt Recovery Activities Identify Overdue Invoice Manage Aged Customer Debt Portfolio Administer Overdue Invoice Follow-Up Establish & Manage Customer Debt Portfolio Manage Overdue Invoice Follow-Up Establish & Manage Customer Debt Profiles Manage Overdue Invoice Payment Add Billing Event Data Assign Billing Event Data Lossure Billing Event Usage Distribute Billing Event Edit Billing Event Reformat Billing Event Reformat Billing Event Generate Billing Event Reformat Billing Event Investigate Billing Event Report Investigate Billing Event Related Problem	
	-		Bill Payments & Receivables Management Manage Billing Events		Apply Rate Level Discounts Aggregate Rems For Charging Manage Customer Charging Hierarchy Provide Advice of Charge/Rate Manage Customer Billing Manage Customer Billing Manage Customer Debt Collection Manage Customer Debt Collection Enrich Billing Events Guide Billing Events Mediate Billing Events Mediate Billing Events Mediate Rilling Events Report Billing Event Records		Collect Customer Payment Reconcile Customer Payment Manage Back-End Bank Account Administer Commercial Arrangement for Third Party Supplier Initiate customer Debt Recovery Activities Identify Overdue Invoice Manage Aged Customer Debt Portfolio Administer Overdue Invoice Follow-Up Establish & Manage Customer Debt Portfolio Manage Overdue Invoice Follow-Up Establish & Manage Customer Debt Profiles Manage Overdue Invoice Payment Add Billing Event Data Assign Billing Event Data Lossure Billing Event Usage Distribute Billing Event Edit Billing Event Reformat Billing Event Reformat Billing Event Generate Billing Event Reformat Billing Event Investigate Billing Event Report Investigate Billing Event Related Problem	

Service





AFR-IX telecom

	•				Inventario de Proce			
ı ID		ID Ma	Macroproceso	ID PR	Proceso	Id Sub	Subproceso	Prioridad
4	Service	2	Service Strategy & Planning	3	Gather & Analyze Service Information	4	Gather Service Information	3
							Analyze new service directions/enhance existing service	
							Analyze to develop new service requirements	
_				-	2 1 2 1 2 1		Analyze service growth	
-				-	Produce Service Business Plans		Develop & Deliver annual/multi year service business plans	
-				-		_	Forecast service demand & capture new opportunities Asses impact of service business plan	
					-		Identify timetables for new service capability introduction	
							Identify logistics for new service capability introduction	
					Manage Service Research		Manage service research investigations	
							Manage administration of service research	
							Define service research assessment methodologies	
					Develop Service Partnership Requirements		Identify the requirements for service aspects	
				-	_		Recommend Service Partnership	
-				-	Establish Service Strategy & Goals		Determine extent of service aspect sourcing Establish service strategy	
					Establish Service Strategy & Goals		Formulate Strategic Position	
							Develop Service Strategy	
							Produce Service Strategic Plan	
							Establish Service goals	
							Determine Actionable Patterns	
							Determine Service Strategy Perspective	
_				-	Gain Enterprise Commitment to Service Strate	egies	Identify Stakeholders to service strategy and service plans	
-					-	-	Gain service strategy and service plans Stakeholders approval Gain Enterprise Commitment to service strategy and service plans	
					Define Service Support Strategies		Define service support Principles	
-					apport and all all all all all all all all all al		Define service support Policies	
							Define Service Support performance standards	
				=				
_		<u> </u>	Service Capability Delivery	+	Map & Analyze Service Requirements		Capture Service Demand & Performance Requirements	3
\dashv					1	<u> </u>	Agree Service Infrastructure Requirements Report Service Infrastructure Requirements	
\neg					Capture Service Capability Shortfalls		Capture Service Capacity Shortfalls	
					captain service capability shortians		Capture Service Performance Shortfalls	
							Capture Service Operational Support Shortfalls	
					Gain Service Capability Investment Approval		Develop Service Capability Investment Proposals	
							Approve Service Capability Investment	
					Design Service Capabilities		Define Service Capability Requirements	
_							Specify Service Capability Infrastructure	
_				-	5 11 6		Select Service Capability At Parties	
-				-	Enable Service Support & Operations		Design Service Operational Support Process Improvements Identify Service Support Groups, Skills & Training	
-				-	-		Identify Service Support Groups, Skills & Framing	
\neg					Manage Service Capability Delivery		Co-ordinate Service Capability Delivery	
							Track and Report Service Capability Delivery	
							Ensure Service Capability Quality	
							Establish Service Capability Sourcing	
							Ensure Service Capability Costs	
							Develop Service Capability Timetables	
_				_	Manage Handover to Service Operations		Co-ordinate Service Operational Handover	
-				-	_		Validate Service Infrastructure Design	
_		_		+		_	Ensure Service Handover Support	
			Service Development & Retirement		Gather & Analyze New Service Ideas		Gather Service Information	3
							Analyze Service Classes	
							Develop Service Classes	
					Manage Service Development		Identify Required Processes & Procedures for Services	
_							Develop Required Processes & Procedures for Services	
-				-	-		Develop Service & Operational Agreements for Services	
-				-	-		Gain Service & Operational Agreements Approval for Services Produce Supporting Documentation & Training Packages for Service	-
\dashv					Assess Performance of Existing Services		Produce Supporting Documentation & Training Packages for Service	:5
\neg					Manage Service Deployment		Manage Service Process & Procedure Implementation	
\neg							Manage Service Operational Staff Training	
]		Develop Service Party Operational Support	
							Manage Service Acceptance Testing	
					Develop New Service Business Proposal		Develop Service Business Proposal	
_					14		Gain Service Business Proposal Approval	
4					Manage Service Exit		Develop Detailed Condex Technic 10 10 10	
\dashv					Develop Detailed Service Specifications		Develop Detailed Service Technical Specifications Develop Detailed Service Support Specifications	
\dashv					1		Develop Detailed Service Support Specifications Develop Detailed Service Operational Specifications	
\exists					1		Develop Detailed Service Operational Specifications Develop Detailed Service Customer Manuals	
_			SM&O Support & Readiness	+	Manage Service Inventory	-	Manage Service Inventory Database and Processes	4
_				-	-		Perform Service Inventory Audit Tests	
_				-	-	-	Track and Monitor Service Inventory Capabilities Identify Service Inventory Issues and Provide Reports and Warnings	
					Enable Service Configuration & Activation	1	Plan & Forecast Service Infrastructure Requirements and Manage (
					2 Service configuration & Activation		Monitor, Report and Release Mgmt. of Service Infrastructure and C	
					1		Establish, Manage, and Develop Service Infrastructure Organization	
	1				1		Optimize Existing Service Infrastructure Utilization	
							Develop and Implement Service Infrastructure Capacity and Operat	
							Perform Service Infrastructure Acceptance Test and Address & Mor	
							Update Service Inventory Record	
					Support Service Problem Management		Manage Service Problem & Performance Data Collection	
_				-	4		Manage Service Infrastructure, Provisioning and Preventive Mainte	nance Schedule
_				-	-	-	Report Service Problem Trends	
_				-	-		Track, Monitor and Manage Service Problem Processes	
-					Enable Service Quality Management		Provide Support for Service Problem Processes Manage Service Performance Data Collection	
-					2.1336 Service Quanty Management		Establish and Maintain Service Performance Threshold Standards	
					1		Assess and Report Service Quality Management Processes	
_							Monitor and Analyze Service Performance Reports, and Identify Iss	Jes
							Monitor and Analyze Service Performance Reports, and Identify Iss Correlate the Service Performance Problem Reports & Manage Inve	

Support Service & Specific Instance Rating





	Conside Configuration & Activation	Design Colution	Develop Overall Conice Design	
	Service Configuration & Activation	Design Solution	Develop Overall Service Design	
			Develop Service Implementation Plan	
			Develop Detailed Service Design	
		Issue Service Orders	Assess Service Request	
			Create Service Orders	
			Mark Service Order for Special Handling	
		Allocate Specific Service Parameters to Services	Determine Service Parameter Availability	
			Reserve Service Parameters	
			Release Service Parameter	
			Allocate Service Parameters	
		Report Service Provisioning	Monitor Service Order Status	
			Distribute Service Order Notification	
			Distribute Service Provisioning Reports	
		Track & Manage Service Provisioning	Assign Service Provisioning Activity	
			Track Service Provisioning Activity	
			Manage Service Provisioning Activity	
		Close Service Order	Wallage Service Florisioning Activity	
			0.00	
		Implement, Configure & Activate Service	Configure Service	
			Implement Service	
			Activate Service	
		Recover Service	Develop Service Recovery Plan	
			Provide Service Recovery Proposal Notification	
			Request Service Recovery Authorization	
			Commence Service Recovery	
			Complete Service Recovery	
		Test Service End-to-End	Test Service	
			Develop Service Test Plans	
			Capture Service Test Results	
	Service Problem Management	Create Service Trouble Report		
		Report Service Problem		
		Diagnose Service Problem		
		Close Service Trouble Report		
		Correct & Resolve Service Problem		
		Survey & Analyze Service Problem		
		Track & Manage Service Problem		
		14 7 6 1 6 17		
	Service Quality Management	Monitor Service Quality	Manage Service Performance Quality Data	
			Record Service Performance Quality Data	
			Correlate Service Performance Event Notifications	
_		Create Service Performance Degradation Report	Generate Service Performance Event Notifications Generate Service Performance Degradation Problem	
		Create Service Performance Degradation Report	Generate Service Performance Degradation Problem	
			Generate Service Performance Degradation Problem Convert Report To Service Performance Degradation Report Format	
		Create Service Performance Degradation Report Analyze Service Quality	Generate Service Performance Degradation Problem Convert Report To Service Performance Degradation Report Format Perform Specific Service Performance Diagnostics	
		Analyze Service Quality	Generate Service Performance Degradation Problem Convert Report To Service Performance Degradation Report Format Perform Specific Service Performance Diagnostics Manage Service Performance Data Collection Schedules	
			Generate Service Performance Degradation Problem Convert Report To Service Performance Degradation Report Format Perform Specific Service Performance Diagnostics Manage Service Performance Data Collection Schedules Justi Coordinate Service Quality	
		Analyze Service Quality	Generate Service Performance Degradation Problem Convert Report To Service Performance Degradation Report Format Perform Specific Service Performance Diagnostics Manage Service Performance Data Collection Schedules Julic Coordinate Service Quality Clear Service Performance Degradation Report Status	
		Analyze Service Quality	Generate Service Performance Degradation Problem Convert Report To Service Performance Degradation Report Format Perform Specific Service Performance Diagnostics Manage Service Performance Data Collection Schedules Julti Coordinate Service Quality Clear Service Performance Degradation Report Status Request Service Performance Degradation Report Creation and Upda	ite
		Analyze Service Quality	Generate Service Performance Degradation Problem Convert Report To Service Performance Degradation Report Format Perform Specific Service Performance Diagnostics Manage Service Performance Data Collection Schedules Julic Coordinate Service Quality Clear Service Performance Degradation Report Status	ite
		Analyze Service Quality	Generate Service Performance Degradation Problem Convert Report To Service Performance Degradation Report Format Perform Specific Service Performance Diagnostics Manage Service Performance Data Collection Schedules Julti Coordinate Service Quality Clear Service Performance Degradation Report Status Request Service Performance Degradation Report Creation and Upda	ite
		Analyze Service Quality	Generate Service Performance Degradation Problem Convert Report To Service Performance Degradation Report Format Perform Specific Service Performance Diagnostics Manage Service Performance Data Collection Schedules Jului Coordinate Service Quality Clear Service Performance Degradation Report Status Request Service Performance Degradation Report Creation and Upda Update First in Service Testing Results Cancel Service Performance Degradation Report	ite
		Analyze Service Quality	Generate Service Performance Degradation Problem Convert Report To Service Performance Degradation Report Format Perform Specific Service Performance Diagnostics Manage Service Performance Data Collection Schedules Justic Coordinate Service Quality Clear Service Performance Degradation Report Status Request Service Performance Degradation Report Creation and Upda Update First in Service Testing Results Cancel Service Performance Degradation Report Engage External Service Suppliers	ite
		Analyze Service Quality Track & Manage Service Quality Performance Reso	Generate Service Performance Degradation Problem Convert Report To Service Performance Digradation Report Format Perform Specific Service Performance Diagnostics Manage Service Performance Data Collection Schedules Justic Coordinate Service Quality Clear Service Performance Degradation Report Status Request Service Performance Degradation Report Creation and Upda Update First in Service Testing Results Cancel Service Performance Degradation Report Engage External Service Suppliers Escalate/Find Service Performance Degradation Report	ite
		Analyze Service Quality	Generate Service Performance Degradation Problem Conwert Report To Service Performance Degradation Report Format Perform Specific Service Performance Diagnostics Manage Service Performance Data Collection Schedules Jului Coordinate Service Quality Clear Service Performance Degradation Report Status Request Service Performance Degradation Report Creation and Upda Update First in Service Testing Results Cancel Service Performance Degradation Report Engage External Service Suppliers Escalate/End Service Performance Degradation Report Reassign / Reconfigure Service or Service Parameters	ite
		Analyze Service Quality Track & Manage Service Quality Performance Reso	Generate Service Performance Degradation Problem Convert Report To Service Performance Degradation Report Format Perform Specific Service Performance Diagnostics Manage Service Performance Diagnostics Manage Service Performance Data Collection Schedules Subtil Coordinate Service Qualify Clear Service Performance Degradation Report Status Request Service Performance Degradation Report Creation and Upda Update First in Service Testing Results Cancel Service Performance Degradation Report Engage External Service Suppliers Escalate/End Service Ingeliers Escalate/End Service Performance Degradation Report Reassign / Recordingure Service or Service Parameters Manage Service Improvement Notification and Authorization	ite
		Analyze Service Quality Track & Manage Service Quality Performance Reso Improve Service Quality	Generate Service Performance Degradation Problem Conwert Report To Service Performance Degradation Report Format Perform Specific Service Performance Diagnostics Manage Service Performance Data Collection Schedules Jului Coordinate Service Quality Clear Service Performance Degradation Report Status Request Service Performance Degradation Report Creation and Upda Update First in Service Testing Results Cancel Service Performance Degradation Report Engage External Service Suppliers Escalate/End Service Performance Degradation Report Reassign / Reconfigure Service or Service Parameters	ite
		Analyze Service Quality Track & Manage Service Quality Performance Reso Improve Service Quality Close Service Performance Degradation Report	Generate Service Performance Degradation Problem Convert Report To Service Performance Degradation Report Format Perform Specific Service Performance Diagnostics Manage Service Performance Diagnostics Manage Service Performance Data Collection Schedules Butuli Coordinate Service Qualify Clear Service Performance Degradation Report Status Request Service Performance Degradation Report Creation and Upda Update First in Service Testing Results Cancel Service Performance Degradation Report Engage External Service Suppliers Escalate/End Service Performance Degradation Report Reassign / Reconfigure Service or Service Parameters Manage Service Improvement Notification and Authorization Develop Service Improvement Notification and Authorization	ite
		Analyze Service Quality Track & Manage Service Quality Performance Reso Improve Service Quality	Generate Service Performance Degradation Problem Convert Report To Service Performance Degradation Report Format Perform Specific Service Performance Diagnostics Manage Service Performance Diagnostics Manage Service Performance Data Collection Schedules Subtil Coordinate Service Qualify Clear Service Performance Degradation Report Status Request Service Performance Degradation Report Creation and Upda Update First in Service Testing Results Cancel Service Performance Degradation Report Engage External Service Suppliers Escalate/End Service Ingeliers Escalate/End Service Performance Degradation Report Reassign / Recordingure Service or Service Parameters Manage Service Improvement Notification and Authorization	ite
		Analyze Service Quality Track & Manage Service Quality Performance Reso Improve Service Quality Close Service Performance Degradation Report	Generate Service Performance Degradation Problem Comvert Report To Service Performance Degradation Report Format Perform Specific Service Performance Diagnostics Manage Service Performance Data Collection Schedules Subtil Coordinate Service Qualify Clear Service Performance Degradation Report Status Request Service Performance Degradation Report Creation and Upda Update First in Service Testing Results Cancel Service Performance Degradation Report Engage External Service Suppliers Escalate/End Service Performance Degradation Report Reassign / Reconfigure Service or Service Parameters Manage Service Improvement Notification and Authorization Develop Service Improvement Plans Monitor Service Performance Degradation Report	ite
		Analyze Service Quality Track & Manage Service Quality Performance Reso Improve Service Quality Close Service Performance Degradation Report	Generate Service Performance Degradation Problem Convert Report To Service Performance Degradation Report Format Perform Specific Service Performance Diagnostics Manage Service Performance Data Collection Schedules Justi Coordinate Service Quality Clear Service Performance Degradation Report Status Request Service Performance Degradation Report Creation and Upda Update First in Service Testing Results Cancel Service Performance Degradation Report Engage External Service Suppliers Escalate/End Service Performance Degradation Report Reassign / Reconfligure Service or Service Parameters Manage Service Improvement Notification and Authorization Develop Service Improvement Plans Monitor Service Performance Degradation Report Report Constraints to Other Processes	ite
		Analyze Service Quality Track & Manage Service Quality Performance Reso Improve Service Quality Close Service Performance Degradation Report Report Service Quality Performance	Generate Service Performance Degradation Problem Convert Report To Service Performance Degradation Report Format Perform Specific Service Performance Diagnostics Manage Service Performance Diagnostics Manage Service Performance Data Collection Schedules Subtil Coordinate Service Qualify Clear Service Performance Degradation Report Status Request Service Performance Degradation Report Creation and Upda Update First in Service Testing Results Cancel Service Performance Degradation Report Engage External Service Suppliers Escalate/End Service Performance Degradation Report Reassign / Reconfigure Service or Service Parameters Manage Service Improvement Notification and Authorization Develop Service Improvement Plans Monitor Service Performance Degradation Report Report Constraints to Other Processor Distribute Service Qualify Management Reports & Summaries	ite
	Service Guiding & Mediation	Analyze Service Quality Track & Manage Service Quality Performance Reso Improve Service Quality Close Service Performance Degradation Report	Generate Service Performance Degradation Problem Convert Report To Service Performance Degradation Report Format Perform Specific Service Performance Diagnostics Manage Service Performance Data Collection Schedules Sulvi Coordinate Service Qualify Clear Service Performance Degradation Report Status Request Service Performance Degradation Report Creation and Upda Update First in Service Testing Results Cancel Service Performance Degradation Report Engage External Service Suppliers Escalate/Find Service Performance Degradation Report Reassign / Reconfigure Service or Service Parameters Manage Service Improvement Notification and Authorization Develop Service Improvement Plans Monitor Service Performance Degradation Report Report Constraints to Other Processes Distribute Service Quality Management Reports & Summaries Validate Service Usage Record	ite
	Service Guiding & Mediation	Analyze Service Quality Track & Manage Service Quality Performance Reso Improve Service Quality Close Service Performance Degradation Report Report Service Quality Performance	Generate Service Performance Degradation Problem Convert Report To Service Performance Degradation Report Format Perform Specific Service Performance Diagnostics Manage Service Performance Diagnostics Manage Service Performance Data Collection Schedules Butuli Coordinate Service Quality Clear Service Performance Degradation Report Status Request Service Performance Degradation Report Creation and Upda Update First in Service Testing Results Cancel Service Performance Degradation Report Engage External Service Suppliers Escalate/End Service Performance Degradation Report Reassign / Reconfigure Service or Service Parameters Manage Service Improvement Notification and Authorization Develop Service Improvement Notification and Authorization Develop Service Performance Degradation Report Report Constraints to Other Processes Distribute Service Quality Management Reports & Summaries Validats Service Usage Record	ite
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	Service Guiding & Mediation	Analyze Service Quality Track & Manage Service Quality Performance Reso Improve Service Quality Close Service Performance Degradation Report Report Service Quality Performance	Generate Service Performance Degradation Problem Convert Report To Service Performance Degradation Report Format Perform Specific Service Performance Diagnostics Manage Service Performance Data Collection Schedules Multi Coordinate Service Quality Clear Service Performance Degradation Report Status Clear Service Performance Degradation Report Creation and Upda Update First in Service Testing Results Cancel Service Performance Degradation Report Engage External Service Suppliers Escalate/End Service Performance Degradation Report Reassign / Reconfigure Service or Service Parameters Manage Service Improvement Notification and Authorization Develop Service Improvement Notification and Authorization Develop Service Performance Degradation Report Report Constraints to Other Processes Distribute Service Quality Management Reports & Summaries Validate Service Usage Record Convert Service Usage Record	ite
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• Resource

-IX				Inventario de Proces	os		
Etom ID	ID Ma	Macroproceso	ID PR	Proceso	ld Sub	Subproceso	Priorid
5 Resource	2 Resource S	trategy & Planning	3	Gather & Analyze Resource Information	4	Gather Resource Information	├─
						Analyze new resource requirements	
				1		Analyze to develop new/enhance resource requirements	
				Manage Resource Research		Manage resource research investigations	
						Manage administration of resource research	
				1		Define Resource research assessment methodologies	
				Establish Resource Strategy & Architecture		Establish Resource strategy	
						Develop Resource Strategy	
				1		Establish Resource delivery goals	
				1		Establish resource implementation policies	
				Define Resource Support Strategies		Define Resource support Principles	
						Define Resource support Policies	
				1		Define Resource Support performance standards	
				Produce Resource Business Plans		Develop & Deliver annual/multi year resource business plans	
						Identify logistics for new resource capability introduction	
						Forecast high level resource demand & capture new opportunities	
				1		Asses impact of Resource Business plans	
				1		Identify timetables for new resource capability introduction	
				Develop Resource Partnership Requirements		Identify the requirements for resource capabilities	
						Recommend Resource partnership	
						Determine extent of resource capabilities sourcing	
				Gain Enterprise Commitment to Resource Plans	5	Identify Stakeholders to Resource strategy and resource plans	
						Gain resource strategy and resource plans Stakeholders approval	
				1		Gain Enterprise Commitment to resource strategy and resource plans	





		Resource Capability Delivery		Map & Analyze Resource Requirements		Capture Resource Demand & Performance Requirements	
	. [Agree Resource Infrastructure Requirements	
				Enable Resource Support & Operations		Design Resource Operational Support Process Improvements	
						Identify Resource Support Groups, Skills & Training	
						Identify Resource Support Requirements	
				Capture Resource Capability Shortfalls		Capture Resource Capacity Shortfalls	
						Capture Resource Performance Shortfalls	
						Capture Resource Operational Support Shortfalls	
				Manage Resource Capability Delivery		Co-ordinate Resource Capability Delivery	
						Ensure Resource Capability Quality	
						Manage Commissioning of New Resource Infrastructure	
						Establish Resource Capability Sourcing	
				Gain Resource Capability Investment Approval		Develop Resource Capability Investment Proposals	
						Approve Resource Capability Investment	
				Manage Handover to Resource Operations		Co-ordinate Resource Operational Handover	
						Validate Resource Infrastructure Design	
						Ensure Resource Handover Support	
				Resource Capability Delivery		Map & Analyze Resource Requirements	
						Enable Resource Support & Operations	
						Capture Resource Capability Shortfalls	
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		Resource Development & Retirement		Gather & Analyze New Resource Ideas		Gather Resource Information	
	1	 nesource bevelopment a neuternent		danci a mange nen nesoaree ideas		Analyze Resource Classes	
	1		\vdash		_	Develop Resource Classes	
				Manage Resource Development		Identify Required Processes & Procedures for Resources	
	1			Wanage Nesource Development	_	Develop Required Processes & Procedures for Resources	
	-		\vdash		_	Develop Service & Operational Agreements for Resources	
	-		\vdash				
	-		\vdash			Gain Service & Operational Agreements Approval for Resources	
	-		\vdash		-	Produce Supporting Documentation & Training Packages for Resource	
			\vdash	Assess Performance of Existing Resources		144	
			\vdash	Manage Resource Deployment		Manage Resource Process & Procedure Implementation	
			\vdash		_	Manage Resource Operational Staff Training	
			\vdash			Develop Resource Supplier/Partner Operational Support	
			\vdash			Manage Resource Acceptance Testing	
			\vdash	Develop New Resource Business Proposal		Develop Resource Business Proposal	
						Gain Resource Business Proposal Approval	
				Manage Resource Exit		Identify Unviable Resources	
						Identify Impacted Resource Customers	
						Develop Resource Transition Strategies	
						Manage Resource Exit Process	
				Develop Detailed Resource Specifications			
				Develop Detailed Resource Specifications		Manage Resource Exit Process	
				Develop Detailed Resource Specifications		Manage Resource Exit Process Develop Detailed Resource Technical Specifications Develop Detailed Resource Support Specifications	
				Develop Detailed Resource Specifications		Manage Resource Exit Process Develop Detailed Resource Technical Specifications Develop Detailed Resource Support Specifications Develop Detailed Resource Operational Specifications	
				Develop Detailed Resource Specifications		Manage Resource Exit Process Develop Detailed Resource Technical Specifications Develop Detailed Resource Support Specifications Develop Detailed Resource Operational Specifications Develop Detailed Resource Manuals	
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Engaged Party





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6	Engaged Part	2	Party Strategy & Planning Party Tender Management	3	Determine the Sourcing Requirements	4	Capture Sourcing Requirements	⊢
			Party Tender Management	+	Determine the Sourcing Requirements		Finalize Sourcing Requirements	\vdash
							Prepare Tender Document	
					Determine Potential Parties		Analyze Potential Parties Short List Potential Parties	-
							Identify Potential Parties	\vdash
							Issue Tender Document	
							Receive Tender Document Response Select Short-listed Party	┝
					Manage the Tender Process	_	Specify the Tender Process	\vdash
							Administer the Tender Process	
					Gain Tender Decision Approval		Provide Management Oversight on Tenders Approve Tender Decisions	L
			Party Agreement Management	+	Prepare Party Agreement		Begin Party Agreement Preparation	┢
			, ,					
							_	⊢
							Specify Party Agreement Terms and Conditions	
							Specify Agreement Items	
				-	Manage Party Agreement Commercial Negotiat	ione	Specify Type Specific Agreement Component Establish Commercial Negotiating Strategy	⊢
					Manage Farty Agreement Commercial Negotiati	lons	Manage Commercial Negotiating Strategy	\vdash
					Gain Approval for Party Agreement		Report to Party Agreement Stakeholders	
				-	Manage Party Agreement Variation	_	Commit & Approve Party Agreement	\vdash
-					Terminate Party Agreement Variation			\vdash
			Party Offering Development & Retirement		On-board Party Product Specification & Offerin	g	Define Party Product Specification Involvement	
					Off-Board Party Offering & Canadanata		Define Party Product Offering Involvement Off-Board Party Product Offering	-
					Off-Board Party Offering & Specification		Off-Board Party Product Offering Off-Board Party Product Specification	\vdash
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			Party Support & Readiness		Support Party Requisition Management		Arrange and Manage Access from external parties to Service Provider F	
							Analyzing Party Requisition Processes Performance	⊢
							Supervise Party Rollout & and Report Party Capacity Monitoring Party Requested Infrastructure Deployment	\vdash
							Detect impact on Party Inventory Infrastructure and Update	
					Support Party Problem Reporting & Manageme	nnt.	Reporting Party Deployment Capability Arrange and Manage Access for Party to Service Provider Problem Mgr	. To
					Support Party Problem Reporting & Manageme	ent	Arrange and Manage Access for Party to Service Provider Problem Mgr Arrange and Manage Access to Party Tools and Processes	10.10
							Monitor, Report for Party Performance and Provide Recommendation	S
					Support Party Performance Management		Analyzing Party Problem Processes Performance Arrange and Manage Access for Party to Service Performance Mgmt. To	ole o
					Support Party Periormance Management		Arrange and Manage Access to Party to Service Performance Mgmt. Tools	
							Monitor and Report Party Performance Issues and Provide Recommer	
							Detect Change on Party Inventory Infrastructure and Update Analyzing Party Performance Processes' Performance	⊢
					Support Party Settlements & Payments Manage	ement	Arrange Facilities, Tools and Systems to Support Processes	\vdash
							Analyze Party Settlements & Payments Process Performance	
					Support Party Interface Management		Check Interface List, Status and Availability Identify Contact Changes and Update	⊢
							Assess Party Interface Performance	┢
					Manage Party Inventory		Manage S/P Inventory Repository	
							Manage and Administer Party Inventory Perform Audit Tests	⊢
							Track and Monitor Party Inventory	\vdash
							Identify Issues and Provide Reports	
			Party Privacy Management		Party Privacy Management Definition		Define Party Privacy Location, Jurisdiction and Regulation Define Party PII Privacy Standards	⊢
					Party Privacy Profile Type Development		Define Default Privacy Information	\vdash
							Define Default Privacy Profile Rules	
					Party Privacy Profile Management		Define Privacy Policy Rules Values Send Party Privacy Profile	⊢
					raity riivacy rionie ivianagement		Enforce Party Privacy Profile	┢
							Request Party Privacy Profile Extension	
					-		Receive Party Privacy Profile Modify Party Privacy Policy	\vdash
					1		Erase Party Privacy Profile Information	\vdash
							Import Data Subject Party Privacy Profile	
				+	Party Privacy Profile Agreement	<u> </u>	<u> </u>	Ļ
			Party Order Handling		Select External Party for Party Order		Identify External Party for Order	
					Determine Party Pre-Order Feasibility		Select Most Appropriate Party Assess Party Delivery Capabilities	-
					occumine rancy rie-Order reasibility		Verify Party Inventory Availability	\vdash
							Evaluate Party Against Business Needs	
					Track & Manage Party Orders		Modify Party Order	-
					1		Cancel Party Order Escalate Party Order	\vdash
					1		Manage Party Orders	
					-		Monitor Jeopardy Status Track Party Orders	-
					1		Track Party Orders Complete Party Order	\vdash
					Receive & Accept Party Order		Receive Party Order	
					-		Accept Party Order	F
					1	<u> </u>	Negotiate Party Order Problem Facilitate Party Product Configuration	\vdash
					Issue Party Order			
					Report Party Orders		Monitor Party Orders Status	\vdash
					-		Manage Party Order Status Notification Report Party Orders Status	\vdash
					Close Party Order		report raity orders stated 3	\vdash
			Party Interaction Management		Log Party Interaction		Create Party Interaction Log	
					Handle Posts Interestic - 0 - 1 - 1 - 2 - 2 - 2		Update Party Interaction	H
					Handle Party Interaction (Including Self Service	=1	Handle Interaction Monitor Interaction Status	\vdash
					1		Close Interaction	
					Notify Party		Angline Dorty Interesting	F
					Analyze & Report Party Interactions		Analyze Party Interactions Report Party Interaction	\vdash
					Track and Manage Party Interaction			
					Mediate & Orchestrate Party Interactions		Identify Party Interactions Data Formats	
							Orchestrate Party Interactions Mediate Party Interactions	F





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		Apply Temporary "No Treat"	
		Apply Payment LBX Reconciliation	
		Apply Payments Fallout	
		Apply Payment investigation	
		Apply Payment Overpayment Handling	
		Apply Payment Remittance Handling	
		Party Payment Method Management	
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		Party Payment Plan Administration	
		Party Bill Inquiry Handling	
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7 Enterprise	2 Strategi	ic & Enterprise Planning		Strategic Business Planning	4	Provide Strategic Business Direction	-
			<u> </u>			Create Actionable Strategy Program-manage Strategy Implementation	-
			-	ITIL Release and Deployment Management		Programmanage strategy implementation	-
_				Business Development		Develop Concepts for Revenue Streams	-
						Focus or Broaden Customer Base	-
				1		Identify Outsourcing Opportunities	-
						Investigate Potential Mergers & Acquisitions	
						Facilitate Negotiation & Implementation of Potential Mergers & Acqui-	sidons
			<u> </u>	Enterprise Architecture Management		Manage Enterprise Architecture Methodology	
			-			Co-ordinate Enterprise Architecture Manage Enterprise Architecture Toolsets and Associated Standards	-
—			-			Manage & Administer Architecture Repositories	-
						Manage Architecture Skillsets	-
						Provide Reference Source for Standard Operating Environment	-
						Co-ordinate Architecture Review	
				ITIL Change Management			
				Group Enterprise Management		Plan & Implement Cross-Business Unit Operation	
						Harmonize Processes & Communication Systems across Business Units	-
			-			Manage Funding & Cross-Subsidies across Business Units	—
						Manage Investment for Business Development Co-ordinate Business Activities	-
	Enterne	ise Risk Management		Business Continuity Management			
	Enterpri	se Risk Management		Business continuity Management		Co-ordinate Business Continuity Plan Business Continuity	\vdash
						Plan Infrastructure Recovery	-
						Plan Serious Incident Management	1
						Manage Business Continuity Methodologies	
				Integrity Management			
				Security Management		Manage Proactive Security Management	-
			<u> </u>			Define Security Management Prevention	—
			-			Monitor Industry Trends for Security Management Define Monitoring to Facilitate Security Management	-
						Define Security Management Policies & Procedures	-
_						Define Security Management Analysis	-
						Assist with Security Management Deployment	
						Define Security Management policies & procedures to facilitate detecti	k n Incide
						Manage Reactive Security Management	
						Define Incident Management policies and procedures	—
			-			Detect Potential Security Threats & Violations	—
			-	ITIL IT Service Continuity Management	_	Investigate Potential Security Threats & Violations	-
			-	Fraud Management		Fraud Policy Management	-
	1 1			The state of the s		Traverson y management	!
						Fraud Operations Support	
						Fraud Operations Management	
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			-	ITIL Information Security Management	_		\vdash
				Audit Management		Define Audit Policy	-
				Power Hamiltonia		Define Audit Mechanism	-
						Assess Operational Activities	_
						Evaluate Operational Activities	
						Report Audits	
						Apply Audit Mechanisms Proactively	—
				ITIL Problem Management		Ideal Committee	-
				Insurance Management	+	Identify Insurable Risks	-
	1 1		-		\vdash	Analyze Insurance Cost/Benefits Provide Insurance Advice	-
				1	\vdash	Manage Insurance Advice Manage Insurance Portfolio	-
						Manage Revenue Assurance Policy Framework	-
				Revenue Assurance Management			_
				Revenue Assurance Management			
				Revenue Assurance Management		Manage Revenue Assurance Operations	\vdash
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		arrangement arrangement		Process Management & Support			
	.			ITIL Incident Management			
	.			Enterprise Quality Management		Verify Consistency of Information	
	.			ITIL Service Level Management		,	
	.			Program & Project Management		Deliver Program/Project Methodologies & Support	
	.					Select Program/Project Management Support Tools	
	.					Manage Program/Project Management Skill Sets	
	.					Manage Program/Project Management Repository	
	.					Manage Program/Project Management Metrics	
	.			ITIL Capacity Management			
	.			Enterprise Performance Assessment		Define Enterprise Performance Measures	
	.					Manage Enterprise Performance Data	
	.					Manage External Survey Companies	
	.					Report Balanced Scorecard, etc.	
	.					Metric Management	
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	.			ITIL Availability Management			
	.			Facilities Management & Support			
	.			ITIL Request Fulfillment			
	.			ITIL Service Asset and Configuration Managemen	nt		
	.			ITIL Continual Service Improvement			
				ITIL Event Management			
	$\overline{}$	Knowledge & Research Management		Knowledge Management			
\vdash				Research Management		Evaluate R&D Business Value	
	.					Manage R&D Investment	
-	.					Manage R&D Program Activities	
\vdash	.			Technology Scanning		Evaluate External Technology	
\vdash	.					Determine Business Value of Potential Technology	
\vdash	.					Assess Technology Acquisition	
	-	Financial & Asset Management		Financial Management			
\vdash				Asset Management			
-	.					Manage Corporate Procurement & Logistics Policies	
-	.		—	Procurement Management			
\vdash	.		<u> </u>			Define Warehousing Policies Develop Logistics/Transport Policies	
\vdash	.		<u> </u>			Develop Logistics/Transport Policies Develop Stock (Inventory Management Policies	
\vdash	.		_			Develop Stock/Inventory Management Policies	
\longrightarrow	$\overline{}$		_			Manage Goods Acceptance & Handling	
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$\overline{}$	-		<u> </u>			Manage Messaging	
$\overline{}$	-		<u> </u>	Legal Management		Ensure Legal Compliance	
						Carry out Legal requests	
$\overline{}$						Provide Legal Advice	
	4					Notify Legal Environment Changes	
						Manage Legal Actions	
				Community Relations Management		Ensure Community Visibility	
						Communicate Community Messaging	
						Handle Community Contacts	
				Shareholder Relations Management		Manage Shareholder Relations	
						Manage Employee Share Plans	
				Board & Shares/Securities Management		Manage Board Related Activities	
						Manage Shares/Securities	
						Manage Capital/Equity Activities	
						Manage Share/Stock Registry	
				Regulatory Management		Ensure Regulatory Compliance	
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						Handle Pending Regulations	
						Handle Pending Regulations File Tariffs	
		Human Resources Management				File Tariffs	
		Human Resources Management		HR Policies & Practices			
		Human Resources Management				File Tariffs Facilitate Performance Appraisal Facilitate Code of Conduct	
		Human Resources Management				File Tariffs Facilitate Performance Appraisal Facilitate Code of Conduct Facilitate Allowances & Benefits	
		Human Resources Management				File Tariffs Facilitate Performance Appraisal Facilitate Code of Conduct	
		Human Resources Management				Flie Tariffs Facilitate Performance Appraisal Facilitate Code of Conduct Facilitate Allowances & Benefits Facilitate Hining & Termination Guidelines Facilitate Hining & Stermination Guidelines	
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Figure 24: Process prioritazing





5. Budget

This chapter contains all the software licenses that have been needed in order to achieve the goals of this project. It also includes the hours that have been dedicated to the thesis, evaluated at cost of a junior engineer.

List of licenses:

	Pricing	Amortization cost for 4 months
Signavio	19,283.75€/year	6,427.92€
Odoo	155€/month	620€
ManageEngine ServiceDesk Plus	0€	0€

Total= 7,247.92€

For a junior engineer who is working 8h a day, the salary is around 2,500 €/month. As I have been working in this project for 4 months, the budget destinated to pay a junior engineer to do this work should be around 10,000 €.





6. Conclusions and future development:

Throughout this thesis it has been explained how an implementation of processes is carried out within Afr-ix telecom taking into account its needs, thanks to different methodologies that complement each other to achieve the best possible result such as eTOM, ITIL and ISO 27001, by analyzing and optimizing those processes that already existed.

Although this process implementation has not been completed, many of the benefits that this approach brings can be appreciated within the company such as providing a better understanding of the company, improving the quality and of the services that each department provides to its customer, an increase in their productivity and efficiency, which results in reducing risks and costs and a more standardized work organization that has delimited better the responsibilities of each department.

This analysis and modeling with Signavio have been accompanied by the management of requirements and incidents which has been focused on customer service, applied internally, thanks to Service Desk and Odoo, in which it has been possible to observe and understand the operation of these processes in a virtual environment for optimal modeling.

For future development of this process implementation, some other softwares for the creation of the diagrams may be a better option instead of Signavio, for Afr-ix in particular, like Bizagi since their benefits are very similar but this one has a free license.

In conclusion, in this project it has been possible to realize a study of some of the most relevant standards nowadays and how they are applied in a real company like Afr-ix telecom through some popular softwares, showing their benefits in a real case studio.





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Glossary

- IP: Internet Protocol
- ISO: International Standards Organization
- IT: Information Technology
- ITIL: Information Technology Infrastructure Library
- eTOM: Enhanced Telecom Operations Map
- BPM: Business Process Management
- OMG: Object Management Group
- ISO: International Organization for Standardization
- IEC: International Electrotechnical Commission
- ISMS: Information Security Management System
- PDCA: Plan-Do-Check-Act
- ERP: Enterprise Resource Planning
- CRM: Customer Relationship Management