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SERIES M: TMN AND NETWORK MAINTENANCE: INTERNATIONAL TRANSMISSION SYSTEMS, TELEPHONE CIRCUITS, TELEGRAPHY, FACSIMILE AND LEASED CIRCUITS

Telecommunications management network

Enhanced Telecom Operations Map (eTOM)

**Supplement 3: eTOM to M.3400 mapping** 

ITU-T Recommendation M.3050 - Supplement 3

#### ITU-T M-SERIES RECOMMENDATIONS

# TMN AND NETWORK MAINTENANCE: INTERNATIONAL TRANSMISSION SYSTEMS, TELEPHONE CIRCUITS, TELEGRAPHY, FACSIMILE AND LEASED CIRCUITS

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#### **ITU-T Recommendation M.3050**

# **Enhanced Telecom Operations Map (eTOM)**

# **Supplement 3**

# eTOM to M.3400 mapping

#### **Summary**

ITU-T Recs M.3050.x series contain a reference framework for categorizing the business activities that a service provider will use. The Enhanced Telecom Operations Map® (or eTOM for short), which has been developed by the TeleManagement Forum, describes the enterprise processes required by a service provider and analyses them to different levels of detail according to their significance and priority for the business. This business process approach has built on the concepts of Management Services and Functions in order to develop a framework for categorizing all the business activities.

This Supplement provides an insight on how the functional view provided by the Management Functions described in TMN Recommendation M.3400 can be mapped to the process view provided by the eTOM Business Process Framework.

#### **Source**

Supplement 3 to ITU-T Recommendation M.3050 was agreed on 7 May 2004 by ITU-T Study Group 4 (2001-2004).

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The World Telecommunication Standardization Assembly (WTSA), which meets every four years, establishes the topics for study by the ITU-T study groups which, in turn, produce Recommendations on these topics.

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#### Introduction

In this Supplement, concepts will be elaborated of mapping the Management Service/Function approach of ITU-T Recs M.3200 [3]/M.3400 [1], on one hand, and the Enhanced Telecom Operations Map® – eTOM documented in ITU-T Rec. M.3050 [4], on the other hand. An example will be given of how the respective functional and process view can be mapped. This mapping needs to be seen as preliminary analysis, which will be extended in next versions of this Supplement. Clause 6, Outlook to future work, identifies some of the possible future extensions.

#### **ITU-T Recommendation M.3050**

# **Enhanced Telecom Operations Map (eTOM)**

## **Supplement 3**

# eTOM to M.3400 mapping

#### 1 Scope

The Enhanced Telecom Operations Map (eTOM) [4] has been developed by the TeleManagement Forum as a reference framework for categorizing all the business activities that an Information and Communications service provider will use. It should be noted that the TM Forum retains the ownership of the eTOM and copyright of the underlying IPR. The ITU-T will own the copyright on the M.3050.x series ITU-T Recommendations themselves.

This Supplement is a part of a series of ITU-T texts dealing with eTOM, and which have the following structure:

- M.3050.0: eTOM Introduction.
- M.3050.1: eTOM The business process framework. (TMF GB921 v4.0.)
- M.3050.2: eTOM Process decompositions and descriptions. (TMF GB921 v4.0 Addendum D.)
- M.3050.3: eTOM Representative process flow. (TMF GB921 v4.0 Addendum F.)
- M.3050.4: eTOM B2B integration: Using B2B inter-enterprise integration with the eTOM. (TMF GB921 v4.0 Addendum B.)
- M.3050 Supplement 1: eTOM ITIL application note. (TMF GB921 v4.0 Addendum L.)
- M.3050 Supplement 2: eTOM Public B2B Business Operations Map (BOM). (GB921 Addendum C.)
- M.3050 Supplement 3: eTOM to M.3400 mapping.

Additional parts will be published as material becomes available.

This series of ITU-T Recs M.3050.x build on the Management Services approach described in ITU-T Recs M.3010 and M.3200 by developing a Business Process Framework.

This Supplement provides an insight on how the functional view provided by the Management Functions described in TMN Recommendation M.3400 [1] can be mapped to the process view provided by the eTOM Business Process Framework.

The eTOM provides the framework for standardizing and categorizing business activities to help setting the direction for management solutions. It also provides the business-oriented view of service provider requirements that the management services and functions will need to support.

The mapping of eTOM processes to M.3400 management functions in both directions is documented in this Supplement, in order to facilitate the application of both these processes and functions within the development and integration of Business and Operations Support Systems.

#### 2 References

- [1] ITU-T Recommendation M.3400 (2000), TMN management functions.
- [2] ITU-T Recommendation M.3010 (2000), *Principles for a telecommunications management network*.
- [3] ITU-T Recommendation M.3200 (1997), TMN management services and telecommunications managed areas: overview.
- [4] ITU-T Recommendation M.3050.0 (2004), Enhanced Telecom Operations Map (eTOM) Introduction.
- [5] ITU-T Recommendation M.3050.1 (2004), Enhanced Telecom Operations Map (eTOM) The business process framework.
- [6] ITU-T Recommendation M.3050.2 (2004), Enhanced Telecom Operations Map (eTOM) Process decompositions and descriptions.
- [7] ITU-T Recommendation M.3050.3 (2004), Enhanced Telecom Operations Map (eTOM) Representative process flows.

#### 3 Terms and abbreviations

#### 3.1 Definitions

See ITU-T Rec. M.3050.1 [5].

#### 3.2 Abbreviations

The following abbreviations are additional to those defined in ITU-T Rec. M.3050.1:

NGN Next Generation Network

OSI Open Systems Interconnection

TM Forum TeleManagement Forum (see also TMF)

#### 4 Linking eTOM to the TMN model

Within the telecommunications industry different Management Models have evolved over time. The OSI Functional model – the Service Management Function Areas – introduced the functional areas known as FCAPS: Fault Management, Configuration Management, Accounting Management, Performance Management and Security Management.

The ITU-T TMN introduced the concept of the Logical Layered Architecture with the Element Management Layer, Network Management Layer, Service Management Layer and Business Management Layer. This is one of the concepts that have been developed by ITU, to assist in the functional decomposition of the management requirements into manageable subsets and to encourage the reuse of solutions, as is described in ITU-T Rec. M.3050.0 [4].

As investment decisions in the telecommunications industry were more and more driven by Business rather than Technology drivers, the TeleManagement Forum developed the Enhanced Telecom Operations Map® (eTOM) as a reference framework for classifying all business activities, which will be performed by an Information and Communications service provider. Process elements – components of overall business processes – can be positioned within a model to show organizational, functional and other relationships, and can be combined within process flows that trace activity paths through the business. The eTOM concepts are described in ITU-T Rec. M.3050.1 [5].

This clause links the ITU-TMN model and the eTOM Business Process Framework, business drivers and the benefits we can get from linking those two models.

It should be noted that in the context of the eTOM Business Process Framework, Process Elements are the building blocks or components, which are used to 'assemble' end-to-end business processes. The term Process refers to a systematic, sequenced set of functional activities that deliver a specified result, and does not refer to Process Flow, which is the sequencing of Process Elements (see [5]).

#### 4.1 The TMN model

The telecommunications industry has embraced the Telecommunications Management Network (TMN) model as a way to think logically about how the business of a service provider is managed. As mentioned before, the TMN model introduced the concept of Logical Layered Architecture. It consists of four layers, usually arranged in a triangle or pyramid, with business management at the apex, service management the second layer, network management the third layer, and element management at the bottom. The idea is that management decisions at each layer are different but interrelated. For example, detailed information is needed to keep a switch operating (at the element management layer), but only a subset of that information is needed to keep the network operating (e.g., is the switch operating at full capacity). Working from the top down, each layer imposes requirements on the layer below. Working from the bottom up, each layer provides a capability to the layer above.

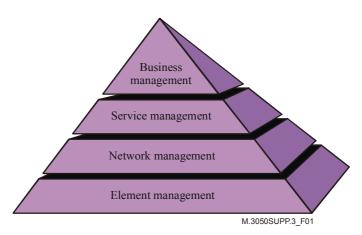


Figure 1 – Basic TMN logical layering architecture model

Some of the concepts defined by the TMN are very relevant for the context of this Supplement. ITU-T Rec. M.3200 [3] describes Telecommunications Managed Areas and TMN Management Services, in order to support the wide variety of management activities for telecommunications networks and services. The Telecommunications Managed Areas relate to the grouping of telecommunications resources being managed and the Management Services relate to the set of processes needed to achieve business objectives (Management Goals). It has been accepted that flexibility is required in the definition of TMN Management Services to enable additional requirements to be accommodated as they are identified [3].

The management services are comprised of management functions, where Management Functions are grouped together and referred to as a Management Function Set. ITU-T Rec. M.3400 [1] states that "A TMN Management Function is a cooperative interaction between application processes in managing and managed systems for the management of telecommunications resources, and is the smallest functional part of a TMN Management Service as perceived by the TMN users". The library of general Management Function Sets and their Management Functions members can be found in ITU-T Rec. M.3400 [1] categorized according to their FCAPS application.

In describing the requirements for an interface, the functions identified may reference those defined in ITU-T Rec. M.3400 [1] or specialize one or more of them to suit a specific managed area, or new functions may be identified as appropriate.

The TMN model is simple, although its implementation is complex. The sheer number of standards now available that address the various interfaces between management systems makes it difficult to see and appreciate the big picture. These ITU-T standards are mainly concentrated in the element management and network management layers. Although they have been developed from the bottom up, ITU-T started with the management requirements which have been drawn from the network which is bottom up. This makes it difficult to apply the standards as part of a business case, and likewise it is difficult to have a customer centric focus

### 4.2 The Enhanced Telecom Operations Map Business Process Framework

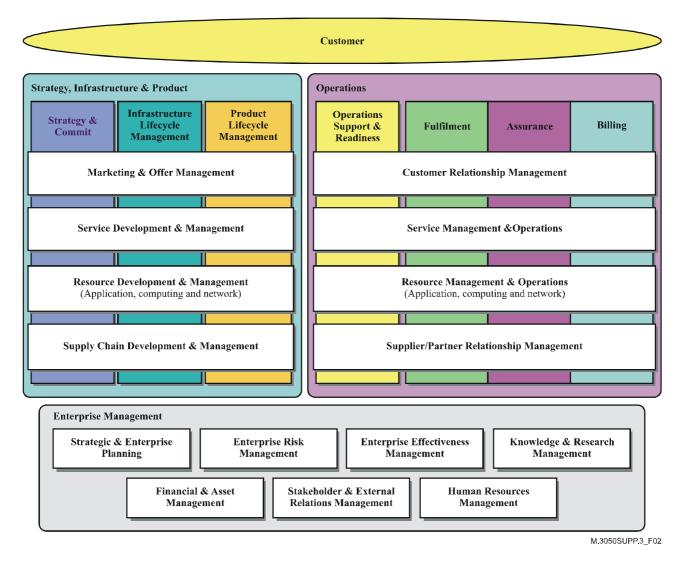


Figure 2 – eTOM Business Process Framework – Level 0 processes

The eTOM is a business process framework, i.e., a reference framework or model for categorizing all the business activities – process elements – that a service provider will use. The aim is to be able to combine these process elements in many different ways, to implement end-to-end business processes (e.g., Fulfilment, Assurance, Billing) which deliver value for the customer and the service provider.

The eTOM defines common terms, which makes it easier for service providers to negotiate with customers, third party suppliers, and other service providers. Furthermore eTOM enables:

- Focused work to define detailed business requirements, information agreements, business application contracts and shared data model specifications (exchanges between applications or systems) and to review these outputs for consistency;
- Relating business needs to available or required standards;
- A common process view for equipment suppliers, applications builders and integrators to build management systems by combining third party and in-house developments.

#### 4.3 Business drivers for process/function mappings

The communications services industry is rapidly changing with new rules, new competitors, new customers, and unprecedented demands. Service providers worldwide all face similar challenges, risks, and struggles to remain profitable in the face of more competition; pressures on market share, prices and margins. As the service providers face these challenges, also their suppliers must find innovative ways to deliver value. Let's consider two cases to illustrate some of today's business drivers.

With an increasing pressure to optimize Operational Expenses, service providers are evaluating multiple outsourcing arrangements. One of these possibilities is to purchase not only equipment from suppliers, but also the managed services for those resources. The development of appropriate value chain processes to support the ordering, provision and maintenance of network infrastructure would lead to automated B2B processes, that, in turn, would lower equipment costs from a maintenance and technical support point of view for both the service providers and their equipment and services suppliers as has happened in other industries, e.g., automotive. This raises a need for developing and specifying interfaces used in procurements and maintenance between service providers and their suppliers.

A second kind of driver relates to the advent of Next Generation Network and Services. While the volumes of traditional telecommunication services are still growing, the margins are decreasing. Service providers with a strong market share in traditional telecommunication services realize they need to increase their focus on Next Generation services such as, for example, Triple Play: High Speed Internet Access, Voice and Video Streaming. Introduction of the required technology and resources in their network imposes a huge integration tax.

Traditionally, service providers have spent a lot of effort in various infrastructures and interfaces. But since these new kinds of service models introduce a Service Control and Application Layer on top of the Network Layer, service providers need to focus on Service and Business Logic in order to be able to differentiate and be successful in the future. Therefore, there is a need for a consistent abstraction, which is hiding complexity and multiplicity of technologies and domains in the network layer.

#### 4.4 Objectives of mapping eTOM to M.3400

To address the needs for both current and the emerging Next Generation Network (NGN) technologies as indicated before, there is a need to provide more detailed process decompositions than currently available in the eTOM Business Process Framework. ITU-T Rec. M.3400 [1] provides a more detailed, but functional view on the Element and Network Management Layers. Linking the M.3400 functional view to the eTOM process view will provide the required detail to design in a standardized way the processes to be operated between service provider OSSs and the network element vendor specific OSSs. It will also assist in building the required level of abstraction between the Resources, on one hand, and the Business and Service Logic, on the other hand.

The objectives of mapping eTOM to M.3400 are to:

- Facilitate the linkage from process view to functional view;
- Provide a framework for level of granularity and abstraction for the interface definitions;
- Get a better handle on what should be implemented in systems in terms of:
  - Reusable software components;
  - Boundaries of what to implement;
- Understand what are the interfaces between processes at the indicated levels;
- Identify the needs for standardization.

The eTOM Business Process Framework is a hierarchical framework, a taxonomy of process elements. The hierarchy helps an enterprise to organize the process analysis. The levels in the hierarchy provide an increasing level of detail. There comes a point where it no longer makes sense to further decompose: further details are filled in by the process flows. At this level, the M.3400 [1] management functions meld with the processes. This means that the functional view provided by ITU-T Rec. M.3400 [1] corresponds to the lowest level of process elements.

The mapping of M.3400 to eTOM is expected to help with validating and completing the eTOM process analysis work in the relevant process areas.

Since functions are what vendors are going to deliver, and processes model how service providers are going to sequence those functions, the mapping should also provide a means to match the service providers requirements with the vendors capabilities.

#### 5 Linking functions to processes

### 5.1 About processes, functions and data

The relationship between processes and functions is illustrated in Figure 3.

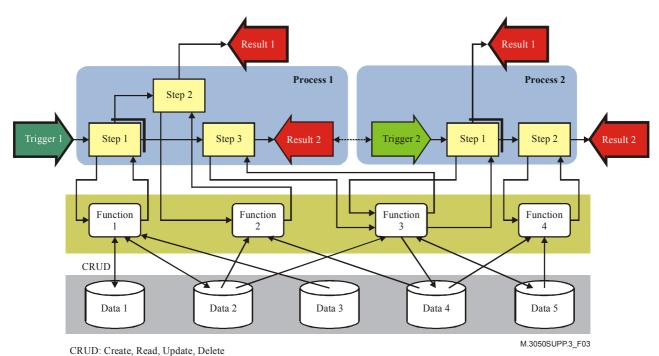


Figure 3 – Relationship between processes, functions and data

Processes can be used to describe the flow of activities to solve a particular business problem, or part of it. At early analysis stages for processes, the means of availability and how the data flows are not significant. Whether or not data is handed over or accessed in a central database is not addressed. However, processes are concerned with the triggers that set them into action.

As previously noted, ITU-T Rec. M.3400 defines TMN Management Functions. In the context of Figure 3, a function can be considered as a unit of processing (either initiated by humans or through an automated action) with specific, well-defined inputs and outputs. This aligns well with the view of TMN Management Functions in ITU-T Rec. M.3400 as cooperative interactions between application processes in managing and managed systems. For functions in particular, the data is essential because the function is described as a unit of processing together with its associated data inputs and outputs. As used in this framework, functions tend to be dedicated to a single purpose and highly granular. In the current version of this mapping Supplement, we did not yet take the data aspects into account.

A process will typically make use of activities in a number of functions. Multiple processes may employ a given function. Thus, there is in principle a many-to-many mapping between process and function.

Based on ITU-T Rec. M.3400 [1], functions with related or complementary capabilities are grouped into Function Set Groups, which then provide operational support to individual processes. It is envisioned that agreement is possible on the high-level processes and the standardized Function Set Groups, without constraining the way in which these are mapped through the intermediate work strings and sub-processes. This maintains the flexibility of application and implementation of this work in individual organizations, and provides harmonization of the underlying functional support and the broad process structure in which these are used.

A function can be considered as a mechanistic reaction to specific inputs, and is thus relatively straightforward to automate. Whereas a process is a reaction to one or more triggers with the application of business rules, and can therefore be more complex to automate. By structuring processes, functions and data (see Figure 3), their relationships can become clearer.

This function-oriented perspective for understanding the content of processes supports the "top-down" analysis of processes, by identifying likely target functional capabilities which the processes will employ in carrying out their role.

#### 5.2 Mapping processes levels to function set groups

As a first step, the need to understand the relationship of Level 2 processes with Function Set Groups is useful. The diagram below (Figure 4) helps to position them, but does not describe the Function Set Groups or Function Sets in detail (see Reference [1] for more detail).

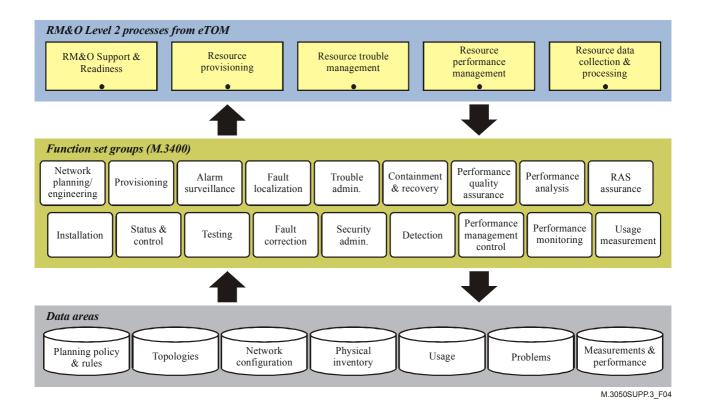


Figure 4 - Processes, function set groups and data areas

As a next step we can be looking at how the Level 2 and Level 3 processes relate with Function Set Groups and Function Sets as shown in Figure 5.

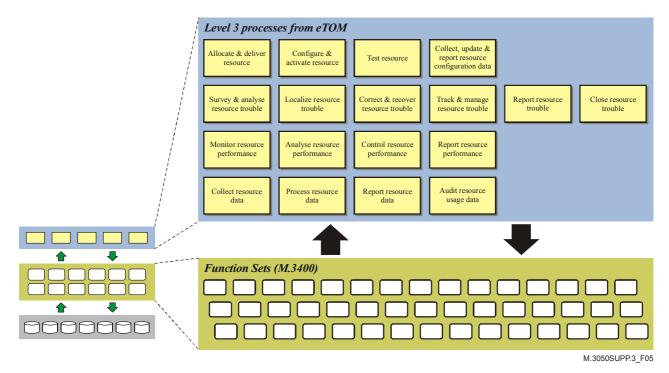


Figure 5 – Relationship between processes and functions

Each process or sub-process will be composed of all or part of the different Function Set Groups or Function Sets, perhaps as a linked workflow, to achieve its objectives. Figure 6 shows examples of these linked workflows, and how these might be used.

This would encourage the SID mapping exercise as it will provide an insight from an application's point of view.

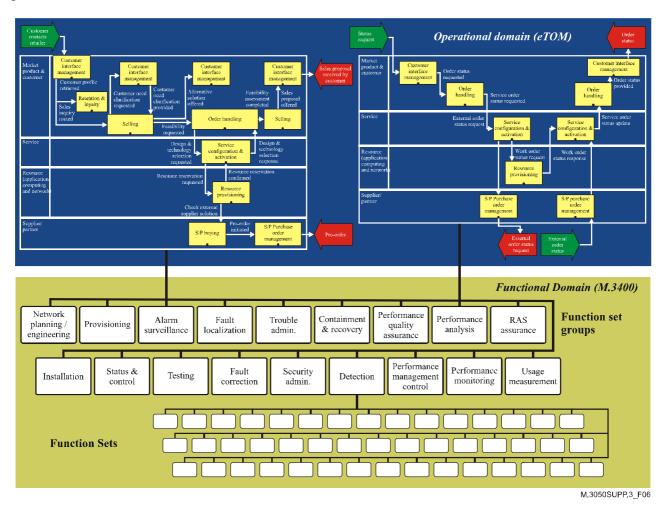


Figure 6 – Linking process flows with function set groups

Appendix I shows how eTOM Level 2 processes relate to M.3400 Function Set Groups. Currently this appendix is just focusing on Resource Management & Operations. Figures for other process areas will be developed in future work.

Appendices II and III will show a detailed mapping of Level 2 processes from and to M.3400 Function Set Groups and Function Sets.

It should be noted that the approach in Appendix I – abstract mapping figure – on one hand, and Appendices II and III – detailed mapping table – on the other hand, are quite different. The mapping tables attempt to clarify the detailed and precise relationship between M.3400 functions and eTOM processes as far as possible, since the approach of eTOM and M.3400 are significantly different.

The mapping tables show the complicated relationship between the two domains. If we were to represent this in a figure, that would become too complicated and hence not readable.

Therefore the approach was taken to provide figures, which are not correct in terms of precise and detailed mapping, but rather show the main linkage between eTOM and FCAPS, currently in the RM&O process area.

#### **6** Outlook to future work

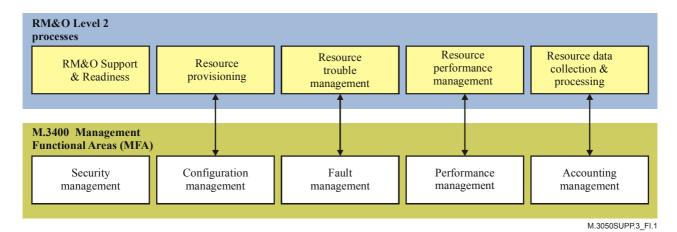
Possible future work items may include:

- elaborating of the abstract mapping figures from Appendix I;
- validating of the detailed mappings from Appendices II and III;
- complementing the current mapping with the data aspects.

# Appendix I

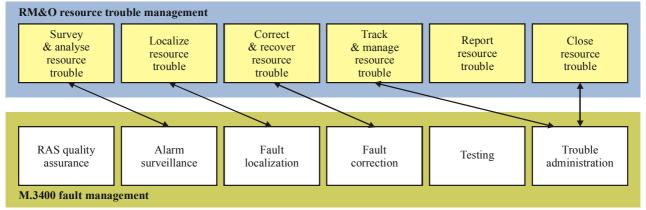
## eTOM Level 2 processes mapped to M.3400 function set groups

An overview of the main linkages between eTOM Level 2 Processes and M.3400 Function Set Groups is presented here. A detailed mapping of the eTOM process to the Function Set Groups and Function Sets is provided in Appendix II. As mentioned before, linking the Data Areas is for future work.

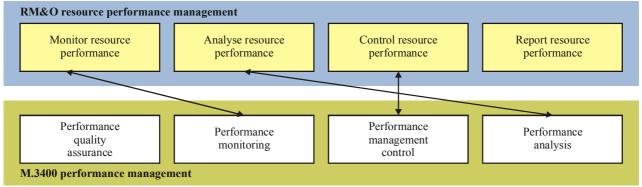


RM&O resource provisioning Collect, update & Configure & Allocate & deliver Test resource report resource activate resource configuration data resource M.3400 configuration management Network planning Service planning and Installation and Provisioning Status and control engineering negotiation

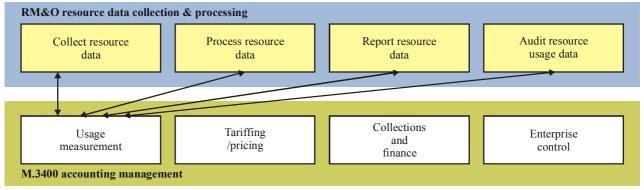
M.3050SUPP.3\_FI.2



M.3050SUPP.3\_FI.3



M.3050SUPP.3\_FI.4



M.3050SUPP.3\_FI.5

# **Appendix II**

# eTOM-to-M.3400 mapping table

This appendix should be considered "informative". It provides an example of mapping eTOM processes (ITU-T Rec. M.3050.2 [6]) and the Function Set Groups as well as their underlying component Function Sets (ITU-T Rec. M.3400 [1]).

eTOM Process ID	Process.Name	M.3400ID	Function.Name		
1.A	Assurance	<b>-</b>			
		5	Performance Management		
		6	Fault Management		
1.A.1.6	Problem Handling				
		6.4	Fault Correction		
		6.6	Trouble administration		
1.A.1.6.1	Isolate Problem & In	itiate Resolution	n		
		6.6.2	Trouble reporting function set		
1.A.1.6.2	Report Problem				
		6.6.2	Trouble reporting function set		
		6.6.3	Trouble report status change notification function set		
		6.6.5	Trouble ticket creation notification function set		
		6.6.6	Trouble ticket administration function set		
1.A.1.6.3	Track and Manage Problem				
		6.4.2	Arrangement of repair with customer function set		
		6.6.2	Trouble reporting function set		
		6.6.4	Trouble information query function set		
		6.6.6	Trouble ticket administration function set		
1.A.1.6.4	Close Problem				
		6.6.6	Trouble ticket administration function set		
1.A.2.3	Service Problem Mar	nagement			
		7.5	Status and control		
1.A.2.3.1	Evaluate & Qualify I	Problem			
		7.5.2	Priority service restoration function set		
1.A.2.3.2	Diagnose Problem				
		7.5.2	Priority service restoration function set		
1.A.2.3.3	Plan & Assign Resol	ution			
		7.5.2	Priority service restoration function set		
1.A.2.3.4	Track & Manage Res	solution			
		7.5.2	Priority service restoration function set		
1.A.2.4	Service Quality Man	agement			
		5.1	Performance Quality Assurance		

eTOM Process ID	Process.Name	M.3400ID	Function.Name
1.A.2.4.2	Analyse Service Qual	ity	
		5.1.3	Subscriber service quality criteria function set
1.A.3.3	Resource Trouble Ma	nagement	
		5.1	Performance Quality Assurance
		5.1.1	QoS performance goal setting function set
		5.1.2	Network performance goal setting function set
		5.4.1	Recommendations for performance improvement function set
		5.4.3	Traffic forecasting function set
		6.1	RAS Quality Assurance
		6.1.1	Network RAS goal setting function set
		6.2	Alarm surveillance
		6.3	Fault localization
		6.5	Testing
		6.6	Trouble administration
		7.1	Network Planning and Engineering
		7.1.1	Product line budget function set
		7.1.10	Routing design function set
		7.1.11	NE(s) design function set
		7.1.2	Supplier and technology policy function set
		7.1.3	Area boundary definition function set
		7.1.5	Management of planning and engineering process function set
		7.1.7	Network infrastructure design function set
		7.1.8	Access infrastructure design function set
		7.1.9	Facility infrastructure design function set
		7.2	Installation
		7.2.1	Procurement function set
		8.4	Enterprise Control
		8.4.1	Budgeting function set
1.A.3.3.1	Survey & Analyse Re	source Trouble	
		6.1.5	Network outage reporting function set
		6.2.10	Failure event detection and reporting function set
		6.2.2	Network fault event analysis, including correlation and filtering function set
		6.2.6	Alarm event criteria function set
		6.2.7	Alarm indication management function set
		6.2.9	Alarm correlation and filtering function set
		6.3.3	Network fault localization function set
		6.3.4	NE(s) fault localization function set

eTOM Process ID	Process.Name	M.3400ID	Function.Name
		6.3.5	Running of diagnostic function set
		6.5.2	Service test function set
		6.5.3	Circuit selection, test correlation and fault location function set
		6.5.4	Selection of test suite function set
		6.5.5	Test access network control and recovery function set
1.A.3.3.2	Localize Resource Tr	ouble	
		6.1.5	Network outage reporting function set
		6.2.10	Failure event detection and reporting function set
		6.2.2	Network fault event analysis, including correlation and filtering function set
		6.2.9	Alarm correlation and filtering function set
		6.3.3	Network fault localization function set
		6.3.4	NE(s) fault localization function set
		6.3.5	Running of diagnostic function set
1.A.3.3.3	Correct & Recover Re	esource Trouble	2
		6.4.2	Arrangement of repair with customer function set
		6.4.4	NE(s) fault correction function set
		6.4.5	Automatic restoration function set
1.A.3.3.4	Track & Manage Res	ource Trouble	
		6.1.4	Service outage reporting function set
		6.1.5	Network outage reporting function set
		6.1.6	NE(s) outage reporting function set
		6.2.3	Alarm status modification function set
		6.2.8	Log control function set
		6.4.2	Arrangement of repair with customer function set
		6.4.3	Scheduling and dispatch administration of repair forces function set
		6.6.6	Trouble ticket administration function set
		6.6.7	Management of trouble by service customer function set (new function set)
1.A.3.3.5	Report Resource Trou	ıble	
		6.1.3	RAS assessment function set
		6.1.4	Service outage reporting function set
		6.1.5	Network outage reporting function set
		6.2.2	Network fault event analysis, including correlation and filtering function set
		6.2.4	Alarm reporting function set
		6.2.5	Alarm summary function set
		6.2.6	Alarm event criteria function set
		6.3.3	Network fault localization function set

eTOM Process ID	Process.Name	M.3400ID	Function.Name
		6.3.4	NE(s) fault localization function set
		6.3.5	Running of diagnostic function set
		6.4.4	NE(s) fault correction function set
		6.4.5	Automatic restoration function set
		6.5.2	Service test function set
		6.5.3	Circuit selection, test correlation and fault location function set
		6.5.4	Selection of test suite function set
		6.5.5	Test access network control and recovery function set
		6.5.9	Results and status reporting function set
		6.6.6	Trouble ticket administration function set
		6.6.7	Management of trouble by service customer function set (new function set)
1.A.3.4	Resource Performanc	e Management	
		5.2	Performance Monitoring
		5.4	Performance Analysis
		8	Accounting Management
		9	Security Management
1.A.3.4.1	Monitor Resource Per	formance	
		5.2.10	Detection, counting, storage and reporting function set
		5.2.6	Traffic performance monitoring function set
		5.2.9	Performance monitoring data accumulation function set
		5.4.10	NE(s) traffic exception analysis function set
		5.4.11	NE(s) traffic capacity analysis function set
		7.4.20	Assignable inventory management function set
1.A.3.4.2	Analyse Resource Per	formance	
		5.1.6	NE(s) performance assessment function set
		5.1.7	Data integrity check function set
		5.2.10	Detection, counting, storage and reporting function set
		5.2.2	Network performance monitoring event correlation and filtering function set
		5.2.3	Data aggregation and trending function set
		5.2.5	Traffic status function set
		5.2.6	Traffic performance monitoring function set
		5.2.7	NE(s) threshold crossing alert processing function set
		5.2.8	NE(s) trend analysis function set
		5.2.9	Performance monitoring data accumulation function set
		5.4.10	NE(s) traffic exception analysis function set

eTOM Process ID	Process.Name	M.3400ID	Function.Name
		5.4.11	NE(s) traffic capacity analysis function set
		5.4.6	Traffic exception analysis function set
		5.4.7	Traffic capacity analysis function set
		5.4.8	Network performance characterization function set
		7.4.20	Assignable inventory management function set
1.A.3.4.3	Control Resource Per	formance	
		7.4.20	Assignable inventory management function set
1.A.3.4.4	Report Resource Perf	ormance	
		5.2.10	Detection, counting, storage and reporting function set
		5.2.2	Network performance monitoring event correlation and filtering function set
		5.2.3	Data aggregation and trending function set
		5.2.4	Circuit-specific data collection function set
		5.2.5	Traffic status function set
		5.2.6	Traffic performance monitoring function set
		5.2.7	NE(s) threshold crossing alert processing function set
		5.2.8	NE(s) trend analysis function set
		5.2.9	Performance monitoring data accumulation function set
		5.4.6	Traffic exception analysis function set
		5.4.7	Traffic capacity analysis function set
		5.4.8	Network performance characterization function set
		5.4.9	NE(s) performance characterization function set
		7.4.20	Assignable inventory management function set
1.A.4.4.2	Restore S/P Service P	erformance	
		6.1	RAS Quality Assurance
		6.2	Alarm surveillance
		6.3	Fault localization
		6.5	Testing
		6.6	Trouble administration
1.AB.3.5	Resource Data Collec	tion & Process	ing
		5.2	Performance Monitoring
		5.4	Performance Analysis
		6.1	RAS Quality Assurance
		6.1.1	Network RAS goal setting function set
		6.2	Alarm surveillance
		6.4	Fault Correction
		6.5	Testing
		7.1	Network Planning and Engineering

eTOM Process ID	Process.Name	M.3400ID	Function.Name
		7.1.7	Network infrastructure design function set
		7.1.8	Access infrastructure design function set
		7.1.9	Facility infrastructure design function set
		7.2	Installation
		7.2.2	Management of installation function set
		7.2.3	Contracting function set
		7.2.6	Network installation administration function set
		7.4	Provisioning
		7.4.1	Provisioning policy function set
		8.4	Enterprise Control
		8.4.9	Investments function set
1.AB.3.5.1	Collect Resource Data	1	
		5.2.10	Detection, counting, storage and reporting function set
		5.2.6	Traffic performance monitoring function set
		5.2.9	Performance monitoring data accumulation function set
		6.6.2	Trouble reporting function set
		8.1.14	Usage accumulation function set
		8.3.15	In-call service request function set
		9.2.2	Support element protection function set
1.AB.3.5.2	Process Resource Dat	a	
		5.2.10	Detection, counting, storage and reporting function set
		5.2.2	Network performance monitoring event correlation and filtering function set
		5.2.3	Data aggregation and trending function set
		5.2.4	Circuit-specific data collection function set
		5.2.5	Traffic status function set
		5.2.6	Traffic performance monitoring function set
		5.2.7	NE(s) threshold crossing alert processing function set
		5.2.8	NE(s) trend analysis function set
		5.2.9	Performance monitoring data accumulation function set
		5.4.6	Traffic exception analysis function set
		5.4.7	Traffic capacity analysis function set
		5.4.8	Network performance characterization function set
		5.4.9	NE(s) performance characterization function set
		6.2.10	Failure event detection and reporting function set
		6.2.2	Network fault event analysis, including correlation and filtering function set
		6.2.5	Alarm summary function set

eTOM Process ID	Process.Name	M.3400ID	Function.Name
		6.2.6	Alarm event criteria function set
		6.2.9	Alarm correlation and filtering function set
		6.4.5	Automatic restoration function set
		6.6.2	Trouble reporting function set
		8.1.11	Network usage correlation function set
		8.1.16	Administration of usage data collection function set
		8.1.4	Service usage correlation function set
		8.1.5	Service usage validation function set
		8.1.7	Usage surveillance function set
		8.1.8	Usage error correction function set
		8.3.15	In-call service request function set
		9.2.2	Support element protection function set
		9.2.5	Customer usage pattern analysis function set
1.AB.3.5.3	Report Resource Data		
		5.2.10	Detection, counting, storage and reporting function set
		5.2.2	Network performance monitoring event correlation and filtering function set
		5.2.3	Data aggregation and trending function set
		5.2.4	Circuit-specific data collection function set
		5.2.5	Traffic status function set
		5.2.6	Traffic performance monitoring function set
		5.2.7	NE(s) threshold crossing alert processing function set
		5.2.8	NE(s) trend analysis function set
		5.2.9	Performance monitoring data accumulation function set
		5.4.6	Traffic exception analysis function set
		5.4.7	Traffic capacity analysis function set
		5.4.8	Network performance characterization function set
		5.4.9	NE(s) performance characterization function set
		6.1.3	RAS assessment function set
		6.2.10	Failure event detection and reporting function set
		6.2.2	Network fault event analysis, including correlation and filtering function set
		6.2.5	Alarm summary function set
		6.2.6	Alarm event criteria function set
		6.2.9	Alarm correlation and filtering function set
		6.4.4	NE(s) fault correction function set
		6.4.5	Automatic restoration function set
		6.6.2	Trouble reporting function set

eTOM Process ID	Process.Name	M.3400ID	Function.Name
		8.1.12	Usage short-term storage function set
		8.1.13	Usage long-term storage function set
		8.1.2	Management of the usage measurement process function set
		8.1.3	Usage aggregation function set
		8.1.4	Service usage correlation function set
		8.1.6	Usage distribution function set
		8.2.3	Costing function set
		8.3.15	In-call service request function set
		9.2.2	Support element protection function set
1.AB.3.5.4	Audit Resource Usag	ge Data	
		8.1.1	Planning of the usage measurement process function set
		8.1.2	Management of the usage measurement process function set
		8.1.7	Usage surveillance function set
		8.1.9	Usage testing function set
		9.2.2	Support element protection function set
		9.2.5	Customer usage pattern analysis function set
		9.2.9	Software intrusion audit function set
1.B	Billing	_	
		5	Performance Management
		6	Fault Management
		8	Accounting Management
1.B.1.8	Billing & Collections	Management Management	
		8.2	Tariffing/pricing
		8.3	Collections and Finance
1.B.1.8.1	Manage Customer Bi	ill Inquiries	
		8.3.16	Storage of invoice function set
		8.3.18	Inquiry response function set
1.B.1.8.2	Apply Pricing, Disco	ounting & Rebat	e
		8.2.8	Totalling usage charges function set
1.B.1.8.3	Create & Deliver Bil	1	
		8.2.8	Totalling usage charges function set
		8.3.12	Invoice assembly function set
		8.3.13	Sending invoice function set
1.B.1.8.4	Manage Customer B	illing	
		8.3.1	Planning of the billing process function set
		8.3.2	Management of the billing process function set

eTOM Process ID	Process.Name	M.3400ID	Function.Name
1.B.1.8.5	Manage Collection		
		8.3.14	Customer tax administration function set
		8.3.16	Storage of invoice function set
		8.3.17	Receipt of payment function set
		8.3.19	Collections function set
		8.3.21	Customer profile administration function set
		8.3.5	Accounts receivable function set
1.B.2.5	Service & Specific In	stance Rating	
		8.1	Usage Measurement
		8.2	Tariffing/pricing
		8.3	Collections and Finance
		9.4	Security Administration
1.B.2.5.1	Mediate Usage Reco	rds	
		8.1.10	Measurement rules identification function set
		8.1.15	Usage validation function set
		8.1.5	Service usage validation function set
		8.3.15	In-call service request function set
1.B.2.5.2	Rate Usage Records		
		8.1.10	Measurement rules identification function set
		8.2.7	Rating usage function set
		8.3.15	In-call service request function set
1.B.2.5.3	Analyse Usage Reco	rds	
		8.1.3	Usage aggregation function set
		8.3.15	In-call service request function set
		9.4.12	Customer audit trail function set
1.B.4.5.1	Manage Account		
		8.3.6	Accounts payable function set
1.B.4.5.2	Receive & Assess In	voice	
		8.3.6	Accounts payable function set
1.B.4.5.3	Negotiate & Approve	e Invoice	
		8.3.6	Accounts payable function set
1.B.4.5.4	Issue Settlement Not	ice & Payment	
		8.3.6	Accounts payable function set
1.E.1	Strategic & Enterpris	e Planning	
		7	Configuration Management
		8	Accounting Management

eTOM Process ID	Process.Name	M.3400ID	Function.Name
1.E.1.1	Strategic Business Pl	anning	
		8.4	Enterprise Control
		8.4.1	Budgeting function set
		8.4.5	Cost reduction function set
		8.4.9	Investments function set
1.E.1.2	Business Developme	nt	
		8.4	Enterprise Control
		8.4.9	Investments function set
1.E.1.3	Enterprise Architectu	ıre Management	t
		7.1	Network Planning and Engineering
		7.1.5	Management of planning and engineering process function set
1.E.2	Enterprise Risk Man	agement	
		5	Performance Management
		8	Accounting Management
		9	Security Management
1.E.2.1	Business Continuity	Management	
		5.3	Performance Management Control
		5.3.1	Network traffic management policy function set
		9.3	Containment and Recovery
		9.3.1	Protected storage of business data function set
		9.3.12	Protected storage of network configuration data function set
		9.3.16	Protected storage of NE(s) configuration data function set
		9.3.8	Protected storage of customer data function set
		9.4	Security Administration
		9.4.2	Disaster recovery planning function set
1.E.2.2	Security Managemen	nt	
		9.1	Prevention
		9.1.2	Physical access security function set
		9.1.3	Guarding function set
		9.1.4	Personnel risk analysis function set
		9.2	Detection
		9.2.10	Support element security alarm reporting function set
		9.2.3	Customer security alarm function set
		9.2.8	Network security alarm function set
		9.2.9	Software intrusion audit function set
		9.3	Containment and Recovery

eTOM Process ID	Process.Name	M.3400ID	Function.Name
		9.3.11	Administration of network revocation list function set
		9.3.15	Administration of NE(s) revocation list function set
		9.3.3	Theft of service action function set
		9.3.5	Apprehending function set
		9.3.7	Administration of customer revocation list function set
		9.4	Security Administration
		9.4.1	Security policy function set
		9.4.10	Administration of external encryption and keys function set
		9.4.11	Administration of external security protocols function set
		9.4.12	Customer audit trail function set
		9.4.13	Customer security alarm management function set
		9.4.15	Administration of internal authentication function set
		9.4.16	Administration of internal access control function set
		9.4.17	Administration of internal certification function set
		9.4.18	Administration of internal encryption and keys function set
		9.4.19	Network audit trail management function set
		9.4.20	Network security alarm management function set
		9.4.21	NE(s) audit trail management function set
		9.4.22	NE(s) security alarm management function set
		9.4.23	Administration of keys for NEs function set
		9.4.24	Administration of keys by an NE function set
		9.4.3	Manage guards function set
		9.4.4	Audit trail analysis function set
		9.4.5	Security alarm analysis function set
		9.4.6	Assessment of corporate data integrity function set
		9.4.7	Administration of external authentication function set
		9.4.8	Administration of external access control function set
		9.4.9	Administration of external certification function set
1.E.2.3	Fraud Management		
		9.2	Detection
		9.2.1	Investigation of changes in revenue patterns function set
		9.2.4	Customer (external user) profiling function set
		9.2.5	Customer usage pattern analysis function set
		9.2.6	Investigation of theft of service function set

eTOM Process ID	Process.Name	M.3400ID	Function.Name
1.E.2.4	Audit Management		
		5.3	Performance Management Control
		5.3.6	Audit report function set
		8.4	Enterprise Control
		8.4.2	Auditing function set
		9.4	Security Administration
		9.4.12	Customer audit trail function set
		9.4.14	Testing of audit trail mechanism function set
		9.4.19	Network audit trail management function set
		9.4.21	NE(s) audit trail management function set
		9.4.4	Audit trail analysis function set
1.E.2.5	Insurance Managemen	nt	
		8.4	Enterprise Control
		8.4.8	Insurance analysis function set
1.E.3	Enterprise Effectivene	ess Managemer	nt
		7	Configuration Management
		8	Accounting Management
1.E.3.1	Process Management	& Support	
		8.2	Tariffing/pricing
		8.2.3	Costing function set
		8.4	Enterprise Control
		8.4.5	Cost reduction function set
1.E.3.5	Facilities Management & Support		
ļ		7.2	Installation
		7.2.4	Real estate management function set
1.E.5	Financial & Asset Ma	nagement	
ļ		8	Accounting Management
1.E.5.1	Financial Managemer	nt	5 5
ļ		8.2	Tariffing/pricing
		8.2.3	Costing function set
		8.3	Collections and Finance
		8.3.10	Taxation function set
		8.3.3	General accounting operations function set
		8.3.4	General ledger function set
		8.3.5	Accounts receivable function set
		8.3.6	Accounts payable function set
		8.4	Enterprise Control
		8.4.1	Budgeting function set

eTOM Process ID	Process.Name	M.3400ID	Function.Name		
		8.4.3	Cash management function set		
		8.4.5	Cost reduction function set		
		8.4.6	Profitability analysis function set		
		8.4.9	Investments function set		
1.E.5.2	Asset Management				
		8.4	Enterprise Control		
		8.4.10	Assets management function set		
1.E.6	Stakeholder & External Relations Management				
		7	Configuration Management		
		8	Accounting Management		
		9	Security Management		
1.E.6.1	Corporate Communic	ations & Image	Management		
		7.3	Service Planning and Negotiation		
		7.3.5	External relations (legal, stockholders, regulators, public relations) function set		
1.E.6.2	Community Relations	Management			
		7.3	Service Planning and Negotiation		
		7.3.5	External relations (legal, stockholders, regulators, public relations) function set		
1.E.6.3	Shareholder Relations Management				
		7.3	Service Planning and Negotiation		
		7.3.5	External relations (legal, stockholders, regulators, public relations) function set		
		8.4	Enterprise Control		
		8.4.7	Financial reporting function set		
1.E.6.4	Regulatory Management				
		7.3	Service Planning and Negotiation		
		7.3.5	External relations (legal, stockholders, regulators, public relations) function set		
		8.2	Tariffing/pricing		
		8.2.2	Tariff and price administration function set		
		8.4	Enterprise Control		
		8.4.7	Financial reporting function set		
1.E.6.5	Legal Management				
		7.3	Service Planning and Negotiation		
		7.3.5	External relations (legal, stockholders, regulators, public relations) function set		
		9.1	Prevention		
		9.1.1	Legal review function set		

eTOM Process ID	Process.Name	M.3400ID	Function.Name		
		9.3	Containment and Recovery		
		9.3.3	Theft of service action function set		
		9.3.4	Legal action function set		
1.E.6.6	Board & Shares/Secu	urities Managen	nent		
		7.3	Service Planning and Negotiation		
		7.3.5	External relations (legal, stockholders, regulators, public relations) function set		
		8.4	Enterprise Control		
		8.4.4	Raising equity function set		
1.E.7	Human Resources M	lanagement			
		8	Accounting Management		
1.E.7.1	HR Policies & Practi	ices			
		8.3	Collections and Finance		
		8.3.11	Human resources function set		
		8.3.8	Benefits administration function set		
		8.3.9	Pension administration function set		
1.E.7.2	Organization Develo	pment			
		8.3	Collections and Finance		
		8.3.11	Human resources function set		
1.E.7.3	Workforce Strategy				
		8.3	Collections and Finance		
		8.3.11	Human resources function set		
1.E.7.4	Workforce Development				
		8.3	Collections and Finance		
		8.3.11	Human resources function set		
1.E.7.5	Employee & Labor Relations Management				
		8.3	Collections and Finance		
		8.3.7	Payroll function set		
1.F	Fulfilment				
		5	Performance Management		
		7	Configuration Management		
1.F.1.4	Selling	•			
		7.3	Service Planning and Negotiation		
1.F.1.4.1	Manage Prospect				
		7.3.7	Customer need identification function set		
1.F.1.5	Order Handling	1			
		9.1	Prevention		
1.F.1.5.2	Authorize Credit	1			
		9.1.5	Security screening function set		
	1				

eTOM Process ID	Process.Name	M.3400ID	Function.Name
1.F.2.2	Service Configuration & Activation		
		6.5	Testing
		7.2	Installation
		7.3	Service Planning and Negotiation
		7.4	Provisioning
1.F.2.2.1	Design Solution		
		7.2.5	Arrangement of installation with customer function set
		7.3.10	Solution proposal function set
		7.3.8	Customer service planning function set
1.F.2.2.2	Allocate Specific Res	ources to Servi	ces
		7.2.5	Arrangement of installation with customer function set
		7.4.4	Directory address determination function set
		7.4.6	Request for service function set
1.F.2.2.3	Track & Manage Wor	rk Orders	
		7.2.5	Arrangement of installation with customer function set
		7.4.7	Service status administration function set
1.F.2.2.4	Implement & Configu	ıre Service	
		7.2.5	Arrangement of installation with customer function set
		7.4.6	Request for service function set
		9.3.6	Service intrusion recovery function set
1.F.2.2.5	Test Service End-to-E	End	
		6.5.2	Service test function set
		7.2.5	Arrangement of installation with customer function set
1.F.3.2	Resource Provisioning	g	
		5.1	Performance Quality Assurance
		5.4	Performance Analysis
		6.5	Testing
		7.4	Provisioning
1.F.3.2.1	Allocate & Deliver Ro	esource	
		7.4.1	Provisioning policy function set
		7.4.10	Access circuit design function set
		7.4.11	Leased circuit design function set
		7.4.12	Facility design function set
		7.4.13	Manage pending network changes function set
		7.4.17	NE(s) configuration function set
		7.4.19	NE(s) database management function set
		7.4.21	NE(s) resource selection and assignment function set
		7.4.22	NE(s) path design function set
		7.4.26	Manage pending changes in NE(s) function set

eTOM Process ID	Process.Name	M.3400ID	Function.Name
		7.4.3	Access route determination function set
		7.4.5	Leased circuit route determination function set
		7.4.8	Network resource selection and assignment function set
		7.4.9	Interexchange circuit design function set
1.F.3.2.2	Configure & Activat	e Resource	
		6.5.10	Test access path management function set
		6.5.11	Test access function set
		7.4.13	Manage pending network changes function set
		7.4.14	Network connection management function set
		7.4.19	NE(s) database management function set
		7.4.23	Loading program for service feature(s) function set
		7.4.8	Network resource selection and assignment function set
		7.5.3	Message handling systems network status function set
		7.5.4	Leased circuit network status function set
		7.5.5	Transport network status function set
		7.5.6	NE(s) status and control function set
		9.3.10	Network intrusion recovery function set
		9.3.13	Severing internal connections function set
		9.3.14	NE(s) intrusion recovery function set
		9.3.2	Exception report action function set
		9.3.9	Severing external connections function set
1.F.3.2.3	Test Resource		
		6.5.10	Test access path management function set
		6.5.11	Test access function set
		6.5.2	Service test function set
		6.5.3	Circuit selection, test correlation and fault location function set
		6.5.4	Selection of test suite function set
		6.5.5	Test access network control and recovery function set
		6.5.6	Test access configuration function set
		6.5.7	Test circuit configuration function set
		6.5.8	NE(s) test control function set
1.F.3.2.4	Collect, Update & Ro	eport Resource	Configuration Data
		6.4.4	NE(s) fault correction function set
		6.4.5	Automatic restoration function set
		7.2.9	Installation completion reporting function set
		7.4.29	Self-inventory function set

eTOM Process ID	Process.Name	M.3400ID	Function.Name
		7.4.8	Network resource selection and assignment function set
		7.5.3	Message handling systems network status function set
		7.5.4	Leased circuit network status function set
		7.5.5	Transport network status function set
		7.5.6	NE(s) status and control function set
		7.5.7	Access to state information in NEs function set
		7.5.8	Notification of state changes by NEs function set
		9.3.2	Exception report action function set
		9.3.3	Theft of service action function set
		9.4.19	Network audit trail management function set
		9.4.21	NE(s) audit trail management function set
1.F.4.2	S/P Settlements & Bil	lling Managem	ent
		8.3	Collections and Finance
1.F.4.2.1	Select Supplier/Partne	er	
		7.2.7	Material management function set
1.F.4.2.2	Determine S/P Pre-Re	equisition Feasi	bility
		7.2.7	Material management function set
1.F.4.2.3	Place S/P Requisition		
		7.2.7	Material management function set
1.F.4.2.4	Receive & Accept S/I	P Product	
		7.2.7	Material management function set
1.FAB.1.2	Customer Interface M	lanagement	
		6.4	Fault Correction
		7.3	Service Planning and Negotiation
		8.3	Collections and Finance
1.FAB.1.2.1	Manage Contact	1	
		6.4.2	Arrangement of repair with customer function set
		7.3.6	Customer identification function set
		8.3.16	Storage of invoice function set
		8.3.17	Receipt of payment function set
		8.3.18	Inquiry response function set
		8.3.20	Customer account administration function set
1.FAB.1.2.2	Manage Request (Incl		
		6.4.2	Arrangement of repair with customer function set
		8.3.16	Storage of invoice function set
		8.3.17	Receipt of payment function set
		8.3.18	Inquiry response function set
		8.3.20	Customer account administration function set
	1	1	

eTOM Process ID	Process.Name	M.3400ID	Function.Name		
1.FAB.1.9.2	Build Customer Insigl	nt			
		8.3.20	Customer account administration function set		
1.FAB.1.9.3	Analyse and Manage Customer Risk				
		9.2.6	Investigation of theft of service function set		
1.FAB.4.6	S/P Interface Manager	ment			
		5.1	Performance Quality Assurance		
		5.2	Performance Monitoring		
		5.3	Performance Management Control		
		5.4	Performance Analysis		
		6.1	RAS Quality Assurance		
		6.2	Alarm surveillance		
		6.3	Fault localization		
		6.4	Fault Correction		
		6.5	Testing		
		6.6	Trouble administration		
		7.1	Network Planning and Engineering		
		7.2	Installation		
		7.4	Provisioning		
		7.5	Status and control		
		9.2	Detection		
		9.4	Security Administration		
1.I.1.2	Product & Offer Portfolio Planning				
		7.3	Service Planning and Negotiation		
		8.2	Tariffing/pricing		
		8.2.5	Feature pricing function set		
		8.4.9	Investments function set		
1.I.1.3	Product & Offer Capa	bility Delivery			
		8.2.5	Feature pricing function set		
1.I.1.4	Marketing Capability Delivery				
		7.3	Service Planning and Negotiation		
		7.3.3	Marketing function set		
1.I.2.2	Service Capability De	livery			
		6.1	RAS Quality Assurance		
		6.1.2	Service availability goal setting function set		
		7.2	Installation		
		7.2.2	Management of installation function set		
		7.2.6	Network installation administration function set		
		7.3	Service Planning and Negotiation		
		7.3.10	Solution proposal function set		

eTOM Process ID	Process.Name	M.3400ID	Function.Name
		7.3.8	Customer service planning function set
		8.4	Enterprise Control
		8.4.9	Investments function set
1.I.3.2	Requisition Manager	nent	
		7.2	Installation
1.I.4.2	Supply Chain Capabi	lity Delivery	
		7.2	Installation
		7.2.1	Procurement function set
		7.2.3	Contracting function set
1.0	Operation Support &	Readiness	
		5	Performance Management
1.0.1.1	CRM Support & Rea	diness	
		7.3	Service Planning and Negotiation
		8.1	Usage Measurement
		8.2	Tariffing/pricing
		8.3	Collections and Finance
1.0.1.1.1	Support Customer In	terface Manage	ment
		7.3.4	Management of sales process function set
		8.2.6	Provision of access to tariff/price information function set
1.0.1.1.4	Support Billing & Co	llections	
		8.1.1	Planning of the usage measurement process function set
		8.2.1	Pricing strategy function set
		8.2.2	Tariff and price administration function set
		8.2.5	Feature pricing function set
		8.3.1	Planning of the billing process function set
		8.3.2	Management of the billing process function set
1.0.1.1.5	Support Retention &	Loyalty	
		8.2.6	Provision of access to tariff/price information function set
1.0.1.1.6	Support Marketing F	ulfilment	•
		7.3.4	Management of sales process function set
1.0.1.1.7	Support Selling		•
		7.3.4	Management of sales process function set
1.0.1.1.9	Manage Campaign	1	· ·
		7.3.4	Management of sales process function set
1.O.2.1	SM&O Support & Ro		1 -
		5.1	Performance Quality Assurance
		5.4	Performance Analysis
L	L	1	

eTOM Process ID	Process.Name	M.3400ID	Function.Name
		6.1	RAS Quality Assurance
		7.3	Service Planning and Negotiation
		7.5	Status and control
1.0.2.1.1	Manage Service Inve	ntory	
		7.3.2	Service feature definition function set
		7.3.9	Customer service feature definition function set
		7.4.28	Access to service features in NEs function set
		8.3.21	Customer profile administration function set
1.0.2.1.4	Enable Service Quali	ty Management	
		5.1.4	QoS performance assessment function set
		5.4.4	Customer service performance summary (excludes traffic) function set
		5.4.5	Customer traffic performance summary function set
		7.5.1	Priority service policy function set
1.0.3.1	Resource Data Collec	ction & Process	ing
		8.3	Collections and Finance
		9.2	Detection
1.0.3.1.1	Enable Resource Pro	visioning	
		7.1.3	Area boundary definition function set
		7.2.10	Software administration function set
		7.2.11	NE installation administration function set
		7.4.1	Provisioning policy function set
		7.4.18	NE(s) administration function set
1.0.3.1.2	Enable Resource Per	formance Mana	gement
		5.1.4	QoS performance assessment function set
		5.1.5	Network performance assessment function set
		5.2.1	Performance monitoring policy function set
		5.3.4	Performance administration function set
		5.4.2	Exception threshold policy function set
		9.2.7	Internal traffic and activity pattern analysis function set
1.0.3.1.3	Support Resource Trouble Management		
		6.2.1	Alarm policy function set
		6.3.1	Fault localization policy function set
		6.4.1	Management of repair process function set
		6.5.1	Test point policy function set
		6.6.1	Trouble report policy function set

eTOM Process ID	Process.Name	M.3400ID	Function.Name
1.0.3.1.4	Enable Resource Data	Collection &	Processing
		5.3.1	Network traffic management policy function set
		5.3.2	Traffic control function set
		5.3.3	Traffic administration function set
		5.3.5	Execution of traffic control function set
		5.3.6	Audit report function set
		5.4.5	Customer traffic performance summary function set
		8.1.17	Usage generation function set
		9.2.10	Support element security alarm reporting function set
		9.2.7	Internal traffic and activity pattern analysis function set
		9.2.8	Network security alarm function set
		9.4.13	Customer security alarm management function set
		9.4.20	Network security alarm management function set
		9.4.22	NE(s) security alarm management function set
		9.4.5	Security alarm analysis function set
1.0.3.1.5	Manage Resource Inv	entory	
		6.3.2	Verification of parameters and connectivity function set
		6.5.5	Test access network control and recovery function set
		7.1.4	Infrastructure planning function set
		7.2.10	Software administration function set
		7.2.11	NE installation administration function set
		7.4.15	Circuit inventory notification function set
		7.4.16	Circuit inventory query function set
		7.4.19	NE(s) database management function set
		7.4.2	Material management policy function set
		7.4.20	Assignable inventory management function set
		7.4.24	NE(s) inventory notification function set
		7.4.25	NE(s) inventory query function set
		7.4.27	Access to parameters and cross-connects in NEs function set
		7.4.28	Access to service features in NEs function set
		7.5.3	Message handling systems network status function set
		7.5.4	Leased circuit network status function set
		7.5.5	Transport network status function set
		7.5.6	NE(s) status and control function set
		7.5.7	Access to state information in NEs function set
		7.5.8	Notification of state changes by NEs function set

eTOM Process ID	Process.Name	M.3400ID	Function.Name
1.0.3.1.6	Manage Workforce		
		6.4.1	Management of repair process function set
		7.2.8	Scheduling and dispatch administration of installation force function set
1.0.4.1	S/PRM Operations Su	ipport & Readii	ness
		8.2	Tariffing/pricing
1.0.4.1.4	Support S/P Settlemen	nts & Billing M	Tanagement
		8.2.4	Settlements policy function set
1.OFAB.1	Customer Relationshi	p Management	
		5.1	Performance Quality Assurance
		6	Fault Management
		7	Configuration Management
		8	Accounting Management
		9	Security Management
1.OFAB.2	Service Management	& Operation	
		5	Performance Management
		6	Fault Management
		7	Configuration Management
		8	Accounting Management
		9	Security Management
1.OFAB.3	Resource Managemer	nt & Operations	
		5	Performance Management
		5.1	Performance Quality Assurance
		5.1.1	QoS performance goal setting function set
		5.4	Performance Analysis
		5.4.1	Recommendations for performance improvement function set
		6	Fault Management
		7	Configuration Management
		7.1	Network Planning and Engineering
		7.1.1	Product line budget function set
		7.2	Installation
		7.2.2	Management of installation function set
		7.2.3	Contracting function set
		7.2.6	Network installation administration function set
		8.4	Enterprise Control
		8.4.9	Investments function set

eTOM Process ID	Process.Name	M.3400ID	Function.Name	
1.OFAB.4	Supplier/Partner Rela	Relationship Management		
		5	Performance Management	
		6	Fault Management	
		7	Configuration Management	
		8	Accounting Management	
1.P	Product Lifecycle Ma	anagement		
		5	Performance Management	
1.P.1.6	Sales Development	_		
		7.3	Service Planning and Negotiation	
		7.3.3	Marketing function set	
		7.3.4	Management of sales process function set	
1.P.2.3	Service Developmen	t & Retirement		
		5.1	Performance Quality Assurance	
		5.1.1	QoS performance goal setting function set	
		5.4	Performance Analysis	
		5.4.1	Recommendations for performance improvement function set	
		7.1	Network Planning and Engineering	
		7.1.1	Product line budget function set	
		8.4	Enterprise Control	
		8.4.9	Investments function set	
1.P.3.3	Resource Developme	ent & Retiremen	nt	
		8	Accounting Management	
1.P.4.3	Supply Chain Develo	pment & Chang	ge Management	
		7.1	Network Planning and Engineering	
		7.1.2	Supplier and technology policy function set	
		7.2	Installation	
		7.2.1	Procurement function set	
		7.2.3	Contracting function set	
1.S.1.1	Market Strategy & Po	olicy		
		7.3	Service Planning and Negotiation	
		7.3.1	Service planning function set	
		7.3.3	Marketing function set	
		8.4	Enterprise Control	
		8.4.1	Budgeting function set	

eTOM Process ID	Process.Name	M.3400ID	Function.Name
1.S.2.1	Service Strategy & P	lanning	
		5.1	Performance Quality Assurance
		5.1.1	QoS performance goal setting function set
		5.4	Performance Analysis
		5.4.1	Recommendations for performance improvement function set
		6.1	RAS Quality Assurance
		6.1.2	Service availability goal setting function set
		7.1	Network Planning and Engineering
		7.1.1	Product line budget function set
		7.1.6	Demand forecasting function set
		7.3	Service Planning and Negotiation
		7.3.1	Service planning function set
		7.3.10	Solution proposal function set
		7.3.2	Service feature definition function set
		7.3.8	Customer service planning function set
		8.4	Enterprise Control
		8.4.1	Budgeting function set
1.S.3.1	Resource Strategy &	Planning	
		6.4	Fault Correction
		6.5	Testing
		7.2	Installation
		7.4	Provisioning
		7.5	Status and control
		9.3	Containment and Recovery
		9.4	Security Administration
1.S.4.1	Supply Chain Strateg	gy & Planning	
		7.1	Network Planning and Engineering
		7.1.2	Supplier and technology policy function set
		8.4	Enterprise Control
		8.4.1	Budgeting function set
1.SIP.1	Marketing & Offer M	lanagement	
		7	Configuration Management
		8	Accounting Management
1.SIP.2	Service Developmen	t & Managemer	nt
		5	Performance Management
		6	Fault Management
1		7	Configuration Management
		8	Accounting Management

eTOM Process ID	Process.Name	M.3400ID	Function.Name	
1.SIP.3	Resource Developmen	nt & Management		
		6	Fault Management	
		7	Configuration Management	
		8.1	Usage Measurement	
		8.2	Tariffing/pricing	
		8.3	Collections and Finance	
		9.2	Detection	
1.SIP.4	Supply Chain Develop	Supply Chain Development & Management		
		7	Configuration Management	
		8	Accounting Management	

## **Appendix III**

## M.3400-to-eTOM mapping table

This appendix should be considered "informative". It provides an example of mapping the Function Set Groups as well as their underlying component Function Sets (ITU-T Rec. M.3400 [1]), to eTOM processes (ITU-T Rec. M.3050.2 [6]).

M.3400ID	Function.Name	eTOM Process ID	Process.Name
5	Performance Management		
		1.A	Assurance
		1.B	Billing
		1.E.2	Enterprise Risk Management
		1.F	Fulfilment
		1.O	Operation Support & Readiness
		1.OFAB.2	Service Management & Operation
		1.OFAB.3	Resource Management & Operations
		1.OFAB.4	Supplier/Partner Relationship Management
		1.P	Product Lifecycle Management
		1.SIP.2	Service Development & Management
5.1	Performance Quality Assur	ance	
		1.A.2.4	Service Quality Management
		1.A.3.3	Resource Trouble Management
		1.F.3.2	Resource Provisioning
		1.FAB.4.6	S/P Interface Management
		1.0.2.1	SM&O Support & Readiness

M.3400ID	Function.Name	eTOM Process ID	Process.Name
		1.OFAB.1	Customer Relationship Management
		1.OFAB.3	Resource Management & Operations
		1.P.2.3	Service Development & Retirement
		1.S.2.1	Service Strategy & Planning
5.1.1	QoS performance goal setti	ing function set	
		1.A.3.3	Resource Trouble Management
		1.OFAB.3	Resource Management & Operations
		1.P.2.3	Service Development & Retirement
		1.S.2.1	Service Strategy & Planning
5.1.2	Network performance goal	setting function s	eet
		1.A.3.3	Resource Trouble Management
5.1.3	Subscriber service quality of	criteria function se	et
		1.A.2.4.2	Analyse Service Quality
5.1.4	QoS performance assessme	ent function set	
		1.0.2.1.4	Enable Service Quality Management
		1.O.3.1.2	Enable Resource Performance Management
5.1.5	Network performance asses	ssment function se	et
		1.O.3.1.2	Enable Resource Performance Management
5.1.6	NE(s) performance assessn	nent function set	
		1.A.3.4.2	Analyse Resource Performance
5.1.7	Data integrity check function	on set	
		1.A.3.4.2	Analyse Resource Performance
5.2	Performance Monitoring		
		1.A.3.4	Resource Performance Management
		1.AB.3.5	Resource Data Collection & Processing
		1.FAB.4.6	S/P Interface Management
5.2.1	Performance monitoring po	olicy function set	
		1.0.3.1.2	Enable Resource Performance Management
5.2.10	2.10 Detection, counting, storage and reporting function set		
		1.A.3.4.1	Monitor Resource Performance
		1.A.3.4.2	Analyse Resource Performance
		1.A.3.4.4	Report Resource Performance
		1.AB.3.5.1	Collect Resource Data
		1.AB.3.5.2	Process Resource Data
		1.AB.3.5.3	Report Resource Data

M.3400ID	Function.Name	eTOM Process ID	Process.Name
5.2.2	Network performance mon	itoring event corr	elation and filtering function set
		1.A.3.4.2	Analyse Resource Performance
		1.A.3.4.4	Report Resource Performance
		1.AB.3.5.2	Process Resource Data
		1.AB.3.5.3	Report Resource Data
5.2.3	Data aggregation and trend	ing function set	
		1.A.3.4.2	Analyse Resource Performance
		1.A.3.4.4	Report Resource Performance
		1.AB.3.5.2	Process Resource Data
		1.AB.3.5.3	Report Resource Data
5.2.4	Circuit-specific data collec	tion function set	
		1.A.3.4.4	Report Resource Performance
		1.AB.3.5.2	Process Resource Data
		1.AB.3.5.3	Report Resource Data
5.2.5	Traffic status function set		
		1.A.3.4.2	Analyse Resource Performance
		1.A.3.4.4	Report Resource Performance
		1.AB.3.5.2	Process Resource Data
		1.AB.3.5.3	Report Resource Data
5.2.6	Traffic performance monitor	oring function set	
		1.A.3.4.1	Monitor Resource Performance
		1.A.3.4.2	Analyse Resource Performance
		1.A.3.4.4	Report Resource Performance
		1.AB.3.5.1	Collect Resource Data
		1.AB.3.5.2	Process Resource Data
		1.AB.3.5.3	Report Resource Data
5.2.7	NE(s) threshold crossing al	ert processing fur	action set
		1.A.3.4.2	Analyse Resource Performance
		1.A.3.4.4	Report Resource Performance
		1.AB.3.5.2	Process Resource Data
		1.AB.3.5.3	Report Resource Data
5.2.8	NE(s) trend analysis function	on set	,
		1.A.3.4.2	Analyse Resource Performance
		1.A.3.4.4	Report Resource Performance
		1.AB.3.5.2	Process Resource Data
		1.AB.3.5.3	Report Resource Data

M.3400ID	Function.Name	eTOM Process ID	Process.Name
5.2.9	Performance monitoring data accumulation function set		
		1.A.3.4.1	Monitor Resource Performance
		1.A.3.4.2	Analyse Resource Performance
		1.A.3.4.4	Report Resource Performance
		1.AB.3.5.1	Collect Resource Data
		1.AB.3.5.2	Process Resource Data
		1.AB.3.5.3	Report Resource Data
5.3	Performance Management	Control	
		1.E.2.1	Business Continuity Management
		1.E.2.4	Audit Management
		1.FAB.4.6	S/P Interface Management
5.3.1	Network traffic manageme	nt policy function	ı set
		1.E.2.1	Business Continuity Management
		1.O.3.1.4	Enable Resource Data Collection & Processing
5.3.2	Traffic control function set		
		1.O.3.1.4	Enable Resource Data Collection & Processing
5.3.3	Traffic administration func	tion set	
		1.O.3.1.4	Enable Resource Data Collection & Processing
5.3.4	Performance administration	n function set	
		1.O.3.1.2	Enable Resource Performance Management
5.3.5	Execution of traffic control	function set	
		1.O.3.1.4	Enable Resource Data Collection & Processing
5.3.6	Audit report function set		
		1.E.2.4	Audit Management
		1.O.3.1.4	Enable Resource Data Collection & Processing
5.4	Performance Analysis		
		1.A.3.4	Resource Performance Management
		1.AB.3.5	Resource Data Collection & Processing
		1.F.3.2	Resource Provisioning
		1.FAB.4.6	S/P Interface Management
		1.0.2.1	SM&O Support & Readiness
		1.OFAB.3	Resource Management & Operations
		1.P.2.3	Service Development & Retirement
		1.S.2.1	Service Strategy & Planning

M.3400ID	Function.Name	eTOM Process ID	Process.Name	
5.4.1	Recommendations for perfe	ormance improve	ment function set	
		1.A.3.3	Resource Trouble Management	
		1.OFAB.3	Resource Management & Operations	
		1.P.2.3	Service Development & Retirement	
		1.S.2.1	Service Strategy & Planning	
5.4.10	NE(s) traffic exception ana	lysis function set		
		1.A.3.4.1	Monitor Resource Performance	
		1.A.3.4.2	Analyse Resource Performance	
5.4.11	NE(s) traffic capacity analy	sis function set		
		1.A.3.4.1	Monitor Resource Performance	
		1.A.3.4.2	Analyse Resource Performance	
5.4.2	Exception threshold policy	function set		
		1.O.3.1.2	Enable Resource Performance Management	
5.4.3	Traffic forecasting function	set		
		1.A.3.3	Resource Trouble Management	
5.4.4	Customer service performa	nce summary (exc	cludes traffic) function set	
		1.O.2.1.4	Enable Service Quality Management	
5.4.5	Customer traffic performan	erformance summary function set		
		1.0.2.1.4	Enable Service Quality Management	
		1.O.3.1.4	Enable Resource Data Collection & Processing	
5.4.6	Traffic exception analysis f	function set		
		1.A.3.4.2	Analyse Resource Performance	
		1.A.3.4.4	Report Resource Performance	
		1.AB.3.5.2	Process Resource Data	
		1.AB.3.5.3	Report Resource Data	
5.4.7	Traffic capacity analysis fu	nction set		
		1.A.3.4.2	Analyse Resource Performance	
		1.A.3.4.4	Report Resource Performance	
		1.AB.3.5.2	Process Resource Data	
		1.AB.3.5.3	Report Resource Data	
5.4.8	5.4.8 Network performance characterization function set			
		1.A.3.4.2	Analyse Resource Performance	
		1.A.3.4.4	Report Resource Performance	
		1.AB.3.5.2	Process Resource Data	
		1.AB.3.5.3	Report Resource Data	

M.3400ID	Function.Name	eTOM Process ID	Process.Name		
5.4.9	NE(s) performance charac	terization function	n set		
		1.A.3.4.4	Report Resource Performance		
		1.AB.3.5.2	Process Resource Data		
		1.AB.3.5.3	Report Resource Data		
6	Fault Management				
		1.A	Assurance		
		1.B	Billing		
		1.OFAB.1	Customer Relationship Management		
		1.OFAB.2	Service Management & Operation		
		1.OFAB.3	Resource Management & Operations		
		1.OFAB.4	Supplier/Partner Relationship Management		
		1.SIP.2	Service Development & Management		
		1.SIP.3	Resource Development & Management		
6.1	RAS Quality Assurance				
		1.A.3.3	Resource Trouble Management		
		1.A.4.4.2	Restore S/P Service Performance		
		1.AB.3.5	Resource Data Collection & Processing		
		1.FAB.4.6	S/P Interface Management		
		1.I.2.2	Service Capability Delivery		
		1.O.2.1	SM&O Support & Readiness		
		1.S.2.1	Service Strategy & Planning		
6.1.1	Network RAS goal setting function set				
		1.A.3.3	Resource Trouble Management		
		1.AB.3.5	Resource Data Collection & Processing		
6.1.2	Service availability goal se	etting function set			
		1.I.2.2	Service Capability Delivery		
		1.S.2.1	Service Strategy & Planning		
6.1.3	RAS assessment function	set			
		1.A.3.3.5	Report Resource Trouble		
		1.AB.3.5.3	Report Resource Data		
6.1.4	Service outage reporting f	unction set			
		1.A.3.3.4	Track & Manage Resource Trouble		
		1.A.3.3.5	Report Resource Trouble		
6.1.5	Network outage reporting	function set			
		1.A.3.3.1	Survey & Analyse Resource Trouble		
		1.A.3.3.2	Localize Resource Trouble		
		1.A.3.3.4	Track & Manage Resource Trouble		
		1.A.3.3.5	Report Resource Trouble		

M.3400ID	Function.Name	eTOM Process ID	Process.Name
6.1.6	NE(s) outage reporting fu	nction set	
		1.A.3.3.4	Track & Manage Resource Trouble
6.2	Alarm surveillance		
		1.A.3.3	Resource Trouble Management
		1.A.4.4.2	Restore S/P Service Performance
		1.AB.3.5	Resource Data Collection & Processing
		1.FAB.4.6	S/P Interface Management
6.2.1	Alarm policy function set		
		1.0.3.1.3	Support Resource Trouble Management
6.2.10	Failure event detection an	d reporting function	on set
		1.A.3.3.1	Survey & Analyse Resource Trouble
		1.A.3.3.2	Localize Resource Trouble
		1.AB.3.5.2	Process Resource Data
		1.AB.3.5.3	Report Resource Data
6.2.2	Network fault event analy	sis, including corr	elation and filtering function set
		1.A.3.3.1	Survey & Analyse Resource Trouble
		1.A.3.3.2	Localize Resource Trouble
		1.A.3.3.5	Report Resource Trouble
		1.AB.3.5.2	Process Resource Data
		1.AB.3.5.3	Report Resource Data
6.2.3	Alarm status modification	function set	
		1.A.3.3.4	Track & Manage Resource Trouble
6.2.4	Alarm reporting function	set	
		1.A.3.3.5	Report Resource Trouble
6.2.5	Alarm summary function	set	
		1.A.3.3.5	Report Resource Trouble
		1.AB.3.5.2	Process Resource Data
		1.AB.3.5.3	Report Resource Data
6.2.6	Alarm event criteria funct	ion set	
		1.A.3.3.1	Survey & Analyse Resource Trouble
		1.A.3.3.5	Report Resource Trouble
		1.AB.3.5.2	Process Resource Data
		1.AB.3.5.3	Report Resource Data
6.2.7 Alarm indication management function s			
		1.A.3.3.1	Survey & Analyse Resource Trouble
6.2.8	Log control function set		
		1.A.3.3.4	Track & Manage Resource Trouble

M.3400ID	Function.Name	eTOM Process ID	Process.Name		
6.2.9	Alarm correlation and filtering function set				
		1.A.3.3.1	Survey & Analyse Resource Trouble		
		1.A.3.3.2	Localize Resource Trouble		
		1.AB.3.5.2	Process Resource Data		
		1.AB.3.5.3	Report Resource Data		
6.3	Fault localization				
		1.A.3.3	Resource Trouble Management		
		1.A.4.4.2	Restore S/P Service Performance		
		1.FAB.4.6	S/P Interface Management		
6.3.1	Fault localization policy fu	nction set			
		1.O.3.1.3	Support Resource Trouble Management		
6.3.2	Verification of parameters	and connectivity	function set		
		1.O.3.1.5	Manage Resource Inventory		
6.3.3	Network fault localization	function set			
		1.A.3.3.1	Survey & Analyse Resource Trouble		
		1.A.3.3.2	Localize Resource Trouble		
		1.A.3.3.5	Report Resource Trouble		
6.3.4	NE(s) fault localization function set				
		1.A.3.3.1	Survey & Analyse Resource Trouble		
		1.A.3.3.2	Localize Resource Trouble		
		1.A.3.3.5	Report Resource Trouble		
6.3.5	Running of diagnostic func	tion set			
		1.A.3.3.1	Survey & Analyse Resource Trouble		
		1.A.3.3.2	Localize Resource Trouble		
		1.A.3.3.5	Report Resource Trouble		
6.4	Fault Correction				
		1.A.1.6	Problem Handling		
		1.AB.3.5	Resource Data Collection & Processing		
		1.FAB.1.2	Customer Interface Management		
		1.FAB.4.6	S/P Interface Management		
		1.S.3.1	Resource Strategy & Planning		
6.4.1	Management of repair proc	ess function set			
		1.0.3.1.3	Support Resource Trouble Management		
		1.O.3.1.6	Manage Workforce		

M.3400ID	Function.Name	eTOM Process ID	Process.Name		
6.4.2	Arrangement of repair with customer function set				
		1.A.1.6.3	Track and Manage Problem		
		1.A.3.3.3	Correct & Recover Resource Trouble		
		1.A.3.3.4	Track & Manage Resource Trouble		
		1.FAB.1.2.1	Manage Contact		
		1.FAB.1.2.2	Manage Request (Including Self Service)		
6.4.3	Scheduling and dispatch ad	lministration of re	pair forces function set		
		1.A.3.3.4	Track & Manage Resource Trouble		
6.4.4	NE(s) fault correction func	tion set			
		1.A.3.3.3	Correct & Recover Resource Trouble		
		1.A.3.3.5	Report Resource Trouble		
		1.AB.3.5.3	Report Resource Data		
		1.F.3.2.4	Collect, Update & Report Resource Configuration Data		
6.4.5	Automatic restoration func	tion set			
		1.A.3.3.3	Correct & Recover Resource Trouble		
		1.A.3.3.5	Report Resource Trouble		
		1.AB.3.5.2	Process Resource Data		
		1.AB.3.5.3	Report Resource Data		
		1.F.3.2.4	Collect, Update & Report Resource Configuration Data		
6.5	Testing				
		1.A.3.3	Resource Trouble Management		
		1.A.4.4.2	Restore S/P Service Performance		
		1.AB.3.5	Resource Data Collection & Processing		
		1.F.2.2	Service Configuration & Activation		
		1.F.3.2	Resource Provisioning		
		1.FAB.4.6	S/P Interface Management		
		1.S.3.1	Resource Strategy & Planning		
6.5.1	Test point policy function s	set			
		1.O.3.1.3	Support Resource Trouble Management		
6.5.10	Test access path manageme	ent function set			
		1.F.3.2.2	Configure & Activate Resource		
		1.F.3.2.3	Test Resource		
6.5.11	Test access function set				
		1.F.3.2.2	Configure & Activate Resource		
		1.F.3.2.3	Test Resource		

M.3400ID	Function.Name	eTOM Process ID	Process.Name			
6.5.2	Service test function set					
		1.A.3.3.1	Survey & Analyse Resource Trouble			
		1.A.3.3.5	Report Resource Trouble			
		1.F.2.2.5	Test Service End-to-End			
		1.F.3.2.3	Test Resource			
6.5.3	Circuit selection, test correlation and fault location function set					
		1.A.3.3.1	Survey & Analyse Resource Trouble			
		1.A.3.3.5	Report Resource Trouble			
		1.F.3.2.3	Test Resource			
6.5.4	Selection of test suite funct	tion set				
		1.A.3.3.1	Survey & Analyse Resource Trouble			
		1.A.3.3.5	Report Resource Trouble			
		1.F.3.2.3	Test Resource			
6.5.5	Test access network contro	and recovery fur	nction set			
		1.A.3.3.1	Survey & Analyse Resource Trouble			
		1.A.3.3.5	Report Resource Trouble			
		1.F.3.2.3	Test Resource			
		1.O.3.1.5	Manage Resource Inventory			
6.5.6	Test access configuration f	unction set				
		1.F.3.2.3	Test Resource			
6.5.7	Test circuit configuration function set					
		1.F.3.2.3	Test Resource			
6.5.8	NE(s) test control function	set				
		1.F.3.2.3	Test Resource			
6.5.9	Results and status reporting	g function set				
		1.A.3.3.5	Report Resource Trouble			
6.6	Trouble administration					
		1.A.1.6	Problem Handling			
		1.A.3.3	Resource Trouble Management			
		1.A.4.4.2	Restore S/P Service Performance			
		1.FAB.4.6	S/P Interface Management			
6.6.1	Trouble report policy funct	tion set				
		1.0.3.1.3	Support Resource Trouble Management			
6.6.2	Trouble reporting function	set				
		1.A.1.6.1	Isolate Problem & Initiate Resolution			
		1.A.1.6.2	Report Problem			
		1.A.1.6.3	Track and Manage Problem			
		1.AB.3.5.1	Collect Resource Data			

M.3400ID	Function.Name	eTOM Process ID	Process.Name
		1.AB.3.5.2	Process Resource Data
		1.AB.3.5.3	Report Resource Data
6.6.3	Trouble report status chang	e notification fun	ction set
		1.A.1.6.2	Report Problem
6.6.4	Trouble information query	function set	
		1.A.1.6.3	Track and Manage Problem
6.6.5	Trouble ticket creation noti	fication function	set
		1.A.1.6.2	Report Problem
6.6.6	Trouble ticket administration	on function set	
		1.A.1.6.2	Report Problem
		1.A.1.6.3	Track and Manage Problem
		1.A.1.6.4	Close Problem
		1.A.3.3.4	Track & Manage Resource Trouble
		1.A.3.3.5	Report Resource Trouble
6.6.7	Management of trouble by	service customer	function set (new function set)
		1.A.3.3.4	Track & Manage Resource Trouble
		1.A.3.3.5	Report Resource Trouble
7	Configuration Managemen	t	
		1.E.1	Strategic & Enterprise Planning
		1.E.3	Enterprise Effectiveness Management
		1.E.6	Stakeholder & External Relations Management
		1.F	Fulfilment
		1.OFAB.1	Customer Relationship Management
		1.OFAB.2	Service Management & Operation
		1.OFAB.3	Resource Management & Operations
		1.OFAB.4	Supplier/Partner Relationship Management
		1.SIP.1	Marketing & Offer Management
		1.SIP.2	Service Development & Management
		1.SIP.3	Resource Development & Management
		1.SIP.4	Supply Chain Development & Management
7.1	Network Planning and Eng	ineering	
		1.A.3.3	Resource Trouble Management
		1.AB.3.5	Resource Data Collection & Processing
		1.E.1.3	Enterprise Architecture Management
		1.FAB.4.6	S/P Interface Management
		1.OFAB.3	Resource Management & Operations
		1.P.2.3	Service Development & Retirement

M.3400ID	Function.Name	eTOM Process ID	Process.Name		
		1.P.4.3	Supply Chain Development & Change Management		
		1.S.2.1	Service Strategy & Planning		
		1.S.4.1	Supply Chain Strategy & Planning		
7.1.1	Product line budget function	on set			
		1.A.3.3	Resource Trouble Management		
		1.OFAB.3	Resource Management & Operations		
		1.P.2.3	Service Development & Retirement		
		1.S.2.1	Service Strategy & Planning		
7.1.10	Routing design function se	t			
		1.A.3.3	Resource Trouble Management		
7.1.11	NE(s) design function set				
		1.A.3.3	Resource Trouble Management		
7.1.2	Supplier and technology po	olicy function set			
		1.A.3.3	Resource Trouble Management		
		1.P.4.3	Supply Chain Development & Change Management		
		1.S.4.1	Supply Chain Strategy & Planning		
7.1.3	Area boundary definition function set				
		1.A.3.3	Resource Trouble Management		
		1.O.3.1.1	Enable Resource Provisioning		
7.1.4	Infrastructure planning fun	ction set			
		1.O.3.1.5	Manage Resource Inventory		
7.1.5	Management of planning a	nd engineering pr	rocess function set		
		1.A.3.3	Resource Trouble Management		
		1.E.1.3	Enterprise Architecture Management		
7.1.6	Demand forecasting function	on set			
		1.S.2.1	Service Strategy & Planning		
7.1.7	Network infrastructure des	ign function set			
		1.A.3.3	Resource Trouble Management		
		1.AB.3.5	Resource Data Collection & Processing		
7.1.8	Access infrastructure design function set				
		1.A.3.3	Resource Trouble Management		
		1.AB.3.5	Resource Data Collection & Processing		
7.1.9	Facility infrastructure design	gn function set			
		1.A.3.3	Resource Trouble Management		
		1.AB.3.5	Resource Data Collection & Processing		

M.3400ID	Function.Name	eTOM Process ID	Process.Name		
7.2	Installation				
		1.A.3.3	Resource Trouble Management		
		1.AB.3.5	Resource Data Collection & Processing		
		1.E.3.5	Facilities Management & Support		
		1.F.2.2	Service Configuration & Activation		
		1.FAB.4.6	S/P Interface Management		
		1.I.2.2	Service Capability Delivery		
		1.I.3.2	Requisition Management		
		1.I.4.2	Supply Chain Capability Delivery		
		1.OFAB.3	Resource Management & Operations		
		1.P.4.3	Supply Chain Development & Change Management		
		1.S.3.1	Resource Strategy & Planning		
7.2.1	Procurement function set	•			
		1.A.3.3	Resource Trouble Management		
		1.I.4.2	Supply Chain Capability Delivery		
		1.P.4.3	Supply Chain Development & Change Management		
7.2.10	Software administration function set				
		1.O.3.1.1	Enable Resource Provisioning		
		1.O.3.1.5	Manage Resource Inventory		
7.2.11	NE installation administration function set				
		1.O.3.1.1	Enable Resource Provisioning		
		1.O.3.1.5	Manage Resource Inventory		
7.2.2	Management of installation	n function set			
		1.AB.3.5	Resource Data Collection & Processing		
		1.I.2.2	Service Capability Delivery		
		1.OFAB.3	Resource Management & Operations		
7.2.3	Contracting function set				
		1.AB.3.5	Resource Data Collection & Processing		
		1.I.4.2	Supply Chain Capability Delivery		
		1.OFAB.3	Resource Management & Operations		
		1.P.4.3	Supply Chain Development & Change Management		
7.2.4 Real estate management function set					
		1.E.3.5	Facilities Management & Support		
7.2.5	Arrangement of installation	n with customer f	unction set		
		1.F.2.2.1	Design Solution		
		1.F.2.2.2	Allocate Specific Resources to Services		
	I .	1			

M.3400ID	Function.Name	eTOM Process ID	Process.Name
		1.F.2.2.3	Track & Manage Work Orders
		1.F.2.2.4	Implement & Configure Service
		1.F.2.2.5	Test Service End-to-End
7.2.6	Network installation admir	istration function	set
		1.AB.3.5	Resource Data Collection & Processing
		1.I.2.2	Service Capability Delivery
		1.OFAB.3	Resource Management & Operations
7.2.7	Material management func	tion set	
		1.F.4.2.1	Select Supplier/Partner
		1.F.4.2.2	Determine S/P Pre-Requisition Feasibility
		1.F.4.2.3	Place S/P Requisition
		1.F.4.2.4	Receive & Accept S/P Product
7.2.8	Scheduling and dispatch ad	lministration of in	stallation force function set
		1.O.3.1.6	Manage Workforce
7.2.9	Installation completion rep	orting function se	t
		1.F.3.2.4	Collect, Update & Report Resource Configuration Data
7.3	Service Planning and Nego	tiation	
		1.E.6.1	Corporate Communications & Image Management
		1.E.6.2	Community Relations Management
		1.E.6.3	Shareholder Relations Management
		1.E.6.4	Regulatory Management
		1.E.6.5	Legal Management
		1.E.6.6	Board & Shares/Securities Management
		1.F.1.4	Selling
		1.F.2.2	Service Configuration & Activation
		1.FAB.1.2	Customer Interface Management
		1.I.1.2	Product & Offer Portfolio Planning
		1.I.1.4	Marketing Capability Delivery
		1.I.2.2	Service Capability Delivery
		1.0.1.1	CRM Support & Readiness
		1.0.2.1	SM&O Support & Readiness
		1.P.1.6	Sales Development
		1.S.1.1	Market Strategy & Policy
		1.S.2.1	Service Strategy & Planning

1.P.1.6 Sales Development 1.S.1.1 Market Strategy & Policy  7.3.4 Management of sales process function set  1.O.1.1.1 Support Customer Interface Normal Support Marketing Fulfilment Support Selling 1.O.1.1.7 Support Selling 1.O.1.1.9 Manage Campaign 1.P.1.6 Sales Development  7.3.5 External relations (legal, stockholders, regulators, public relations) function 1.E.6.1 Corporate Communications & Management 1.E.6.2 Community Relations Management 1.E.6.3 Shareholder Relations Management 1.E.6.4 Regulatory Management 1.E.6.5 Legal Management	M.3400ID	Function.Name	eTOM Process ID	Process.Name		
1.8.2.1   Service Strategy & Planning	7.3.1	Service planning function	set			
7.3.10 Solution proposal function set    1.F.2.2.1   Design Solution			1.S.1.1	Market Strategy & Policy		
1.F.2.2.1 Design Solution 1.1.2.2 Service Capability Delivery 1.S.2.1 Service Strategy & Planning 7.3.2 Service feature definition function set  1.O.2.1.1 Manage Service Inventory 1.S.2.1 Service Strategy & Planning 7.3.3 Marketing function set  1.I.1.4 Marketing Capability Deliver 1.P.1.6 Sales Development 1.S.1.1 Market Strategy & Policy 7.3.4 Management of sales process function set  1.O.1.1.1 Support Customer Interface N 1.O.1.1.6 Support Marketing Fulfilment 1.O.1.1.7 Support Selling 1.O.1.1.9 Manage Campaign 1.P.1.6 Sales Development 7.3.5 External relations (legal, stockholders, regulators, public relations) function 1.E.6.1 Corporate Communications & Management 1.E.6.2 Community Relations Manag 1.E.6.3 Shareholder Relations Manag 1.E.6.4 Regulatory Management 1.E.6.5 Legal Management 1.E.6.6 Board & Shares/Securities Management 1.E.6.6 Board & Shares/Securities Management 1.E.6.1 Customer identification function set 1.F.1.4.1 Manage Prospect 7.3.8 Customer service planning function set			1.S.2.1	Service Strategy & Planning		
1.1.2.2   Service Capability Delivery	7.3.10	Solution proposal function	set			
7.3.2 Service feature definition function set    1.0.2.1.1			1.F.2.2.1	Design Solution		
7.3.2   Service feature definition function set			1.I.2.2	Service Capability Delivery		
7.3.3 Marketing function set    1.0.2.1.1			1.S.2.1	Service Strategy & Planning		
7.3.3 Marketing function set    1.S.2.1	7.3.2	Service feature definition f	unction set			
7.3.3 Marketing function set    1.1.1.4			1.O.2.1.1	Manage Service Inventory		
1.I.1.4 Marketing Capability Deliver  1.P.1.6 Sales Development  1.S.1.1 Market Strategy & Policy  7.3.4 Management of sales process function set  1.O.1.1.1 Support Customer Interface Marketing Fulfilment  1.O.1.1.6 Support Marketing Fulfilment  1.O.1.1.7 Support Selling  1.O.1.1.9 Manage Campaign  1.P.1.6 Sales Development  7.3.5 External relations (legal, stockholders, regulators, public relations) function  1.E.6.1 Corporate Communications & Management  1.E.6.2 Community Relations Manag  1.E.6.3 Shareholder Relations Manag  1.E.6.4 Regulatory Management  1.E.6.5 Legal Management  1.E.6.6 Board & Shares/Securities Marketing Fulfilment  7.3.6 Customer identification function set  1.F.1.4.1 Manage Contact  7.3.7 Customer need identification function set  1.F.1.4.1 Manage Prospect			1.S.2.1	Service Strategy & Planning		
7.3.4 Management of sales process function set    1.0.1.1.1   Support Customer Interface No. 1.0.1.1.6   Support Marketing Fulfilment 1.0.1.1.7   Support Selling 1.0.1.1.9   Manage Campaign 1.P.1.6   Sales Development	7.3.3	Marketing function set				
7.3.4 Management of sales process function set    1.0.1.1.1   Support Customer Interface National Process function set			1.I.1.4	Marketing Capability Delivery		
7.3.4 Management of sales process function set    1.0.1.1.1   Support Customer Interface Management of Sales process function set			1.P.1.6	Sales Development		
1.O.1.1.1 Support Customer Interface No. 1.O.1.1.6 Support Marketing Fulfilment 1.O.1.1.7 Support Selling 1.O.1.1.9 Manage Campaign 1.P.1.6 Sales Development  7.3.5 External relations (legal, stockholders, regulators, public relations) function 1.E.6.1 Corporate Communications & Management 1.E.6.2 Community Relations Management 1.E.6.3 Shareholder Relations Management 1.E.6.4 Regulatory Management 1.E.6.5 Legal Management 1.E.6.6 Board & Shares/Securities Management 1.E.6.6 Customer identification function set 1.F.1.4.1 Manage Contact 7.3.7 Customer need identification function set 1.F.1.4.1 Manage Prospect 7.3.8 Customer service planning function set			1.S.1.1	Market Strategy & Policy		
1.O.1.1.6 Support Marketing Fulfilment 1.O.1.1.7 Support Selling 1.O.1.1.9 Manage Campaign 1.P.1.6 Sales Development  7.3.5 External relations (legal, stockholders, regulators, public relations) function 1.E.6.1 Corporate Communications & Management 1.E.6.2 Community Relations Manag 1.E.6.3 Shareholder Relations Manag 1.E.6.4 Regulatory Management 1.E.6.5 Legal Management 1.E.6.6 Board & Shares/Securities Management 1.E.6.6 Customer identification function set 1.FAB.1.2.1 Manage Contact  7.3.7 Customer need identification function set 1.F.1.4.1 Manage Prospect  7.3.8 Customer service planning function set	7.3.4					
1.O.1.1.7 Support Selling 1.O.1.1.9 Manage Campaign 1.P.1.6 Sales Development  7.3.5 External relations (legal, stockholders, regulators, public relations) function 1.E.6.1 Corporate Communications & Management 1.E.6.2 Community Relations Manag 1.E.6.3 Shareholder Relations Manag 1.E.6.4 Regulatory Management 1.E.6.5 Legal Management 1.E.6.6 Board & Shares/Securities Management 1.E.6.6 Customer identification function set 1.FAB.1.2.1 Manage Contact  7.3.7 Customer need identification function set 1.F.1.4.1 Manage Prospect  7.3.8 Customer service planning function set			1.0.1.1.1	Support Customer Interface Management		
1.O.1.1.9 Manage Campaign 1.P.1.6 Sales Development  7.3.5 External relations (legal, stockholders, regulators, public relations) function 1.E.6.1 Corporate Communications & Management 1.E.6.2 Community Relations Manag 1.E.6.3 Shareholder Relations Manag 1.E.6.4 Regulatory Management 1.E.6.5 Legal Management 1.E.6.6 Board & Shares/Securities Management 1.E.6.6 Toustomer identification function set 1.E.6.1 Manage Contact  7.3.2 Customer need identification function set 1.E.6.1 Manage Prospect  7.3.3 Customer service planning function set			1.0.1.1.6	Support Marketing Fulfilment		
1.P.1.6 Sales Development  7.3.5 External relations (legal, stockholders, regulators, public relations) function  1.E.6.1 Corporate Communications & Management  1.E.6.2 Community Relations Management  1.E.6.3 Shareholder Relations Management  1.E.6.4 Regulatory Management  1.E.6.5 Legal Management  1.E.6.6 Board & Shares/Securities Management  1.E.6.7 Customer identification function set  1.E.6.8 Manage Contact  7.3.9 Customer need identification function set  1.E.6.1 Manage Prospect  7.3.8 Customer service planning function set			1.0.1.1.7	Support Selling		
7.3.5 External relations (legal, stockholders, regulators, public relations) function  1.E.6.1 Corporate Communications & Management  1.E.6.2 Community Relations Management  1.E.6.3 Shareholder Relations Management  1.E.6.4 Regulatory Management  1.E.6.5 Legal Management  1.E.6.6 Board & Shares/Securities Management  1.E.6.6 Toustomer identification function set  1.FAB.1.2.1 Manage Contact  7.3.7 Customer need identification function set  1.F.1.4.1 Manage Prospect  7.3.8 Customer service planning function set			1.0.1.1.9	Manage Campaign		
1.E.6.1 Corporate Communications & Management  1.E.6.2 Community Relations Management  1.E.6.3 Shareholder Relations Management  1.E.6.4 Regulatory Management  1.E.6.5 Legal Management  1.E.6.6 Board & Shares/Securities Management  1.E.6.6 Customer identification function set  1.FAB.1.2.1 Manage Contact  7.3.7 Customer need identification function set  1.F.1.4.1 Manage Prospect  7.3.8 Customer service planning function set			1.P.1.6	Sales Development		
Management  1.E.6.2 Community Relations Management  1.E.6.3 Shareholder Relations Management  1.E.6.4 Regulatory Management  1.E.6.5 Legal Management  1.E.6.6 Board & Shares/Securities Management  1.E.6.6 Board & Shares/Securities Management  1.E.6.7 Annual Management  1.E.6.8 Customer identification function set  1.E.6.9 Management  1.E.6.1 Management  1.E.6.2 Community Relations Management  1.E.6.3 Regulatory Management  1.E.6.5 Legal Management  1.E.6.6 Board & Shares/Securities Management  1.E.6.6 Board & Shares/Securities Management  1.E.6.8 Board & Shares/Securities Management  1.E.6.9 Board & Shares/Securities Management  1.E.6.1 Board & Shares/Securities Management  1.E.6.1 Board & Shares/Securities Management  1.E.6.2 Board & Shares/Securities Management  1.E.6.3 Board & Shares/Securities Management  1.E.6.4 Board & Shares/Securities Management  1.E.6.5 Board & Shares/Securities Management  1.E.6.6 Board & Shares/Securities Management  1.E.6.9 Board & Shares/Securi	7.3.5					
1.E.6.3 Shareholder Relations Manag  1.E.6.4 Regulatory Management  1.E.6.5 Legal Management  1.E.6.6 Board & Shares/Securities Management  1.FAB.1.2.1 Manage Contact  7.3.7 Customer need identification function set  1.F.1.4.1 Manage Prospect  7.3.8 Customer service planning function set			1.E.6.1	Corporate Communications & Image Management		
1.E.6.4 Regulatory Management  1.E.6.5 Legal Management  1.E.6.6 Board & Shares/Securities Management  1.E.6.7 Board & Shares/Securities Management  1.E.6.8 Boa			1.E.6.2	Community Relations Management		
1.E.6.5 Legal Management  1.E.6.6 Board & Shares/Securities Ma  7.3.6 Customer identification function set  1.FAB.1.2.1 Manage Contact  7.3.7 Customer need identification function set  1.F.1.4.1 Manage Prospect  7.3.8 Customer service planning function set			1.E.6.3	Shareholder Relations Management		
7.3.6 Customer identification function set  1.FAB.1.2.1 Manage Contact  7.3.7 Customer need identification function set  1.F.1.4.1 Manage Prospect  7.3.8 Customer service planning function set			1.E.6.4	Regulatory Management		
7.3.6 Customer identification function set  1.FAB.1.2.1 Manage Contact  7.3.7 Customer need identification function set  1.F.1.4.1 Manage Prospect  7.3.8 Customer service planning function set			1.E.6.5	Legal Management		
7.3.7 Customer need identification function set  1.F.1.4.1 Manage Contact  1.F.1.4.1 Manage Prospect  7.3.8 Customer service planning function set			1.E.6.6	Board & Shares/Securities Management		
7.3.7 Customer need identification function set  1.F.1.4.1 Manage Prospect  7.3.8 Customer service planning function set	7.3.6	Customer identification fur	nction set			
7.3.8 Customer service planning function set			1.FAB.1.2.1	Manage Contact		
7.3.8 Customer service planning function set	7.3.7					
			1.F.1.4.1	Manage Prospect		
1.F.2.2.1 Design Solution	7.3.8	Customer service planning	function set			
			1.F.2.2.1	Design Solution		
1.I.2.2 Service Capability Delivery			1.I.2.2			
1.S.2.1 Service Strategy & Planning			1.S.2.1			
7.3.9 Customer service feature definition function set	7.3.9	Customer service feature d	efinition function			
1.O.2.1.1 Manage Service Inventory			1.O.2.1.1	Manage Service Inventory		

M.3400ID	Function.Name	eTOM Process ID	Process.Name		
7.4	Provisioning				
		1.AB.3.5	Resource Data Collection & Processing		
		1.F.2.2	Service Configuration & Activation		
		1.F.3.2	Resource Provisioning		
		1.FAB.4.6	S/P Interface Management		
		1.S.3.1	Resource Strategy & Planning		
7.4.1	Provisioning policy functi	ion set			
		1.AB.3.5	Resource Data Collection & Processing		
		1.F.3.2.1	Allocate & Deliver Resource		
		1.O.3.1.1	Enable Resource Provisioning		
7.4.10	Access circuit design fund	ction set			
		1.F.3.2.1	Allocate & Deliver Resource		
7.4.11	Leased circuit design fund	ction set			
		1.F.3.2.1	Allocate & Deliver Resource		
7.4.12	Facility design function so	et			
		1.F.3.2.1	Allocate & Deliver Resource		
7.4.13	Manage pending network changes function set				
		1.F.3.2.1	Allocate & Deliver Resource		
		1.F.3.2.2	Configure & Activate Resource		
7.4.14	Network connection mana	agement function s	set		
		1.F.3.2.2	Configure & Activate Resource		
7.4.15	Circuit inventory notificat	tion function set			
		1.O.3.1.5	Manage Resource Inventory		
7.4.16	Circuit inventory query fu	inction set			
		1.O.3.1.5	Manage Resource Inventory		
7.4.17	NE(s) configuration funct	ion set			
		1.F.3.2.1	Allocate & Deliver Resource		
7.4.18	NE(s) administration func	ction set			
		1.O.3.1.1	Enable Resource Provisioning		
7.4.19	NE(s) database managem	ent function set			
		1.F.3.2.1	Allocate & Deliver Resource		
		1.F.3.2.2	Configure & Activate Resource		
		1.O.3.1.5	Manage Resource Inventory		
7.4.2	Material management pol	icy function set			
		1.0.3.1.5	Manage Resource Inventory		

M.3400ID	Function.Name	eTOM Process ID	Process.Name		
7.4.20	Assignable inventory management function set				
		1.A.3.4.1	Monitor Resource Performance		
		1.A.3.4.2	Analyse Resource Performance		
		1.A.3.4.3	Control Resource Performance		
		1.A.3.4.4	Report Resource Performance		
		1.O.3.1.5	Manage Resource Inventory		
7.4.21	NE(s) resource selection ar	nd assignment fun	ction set		
		1.F.3.2.1	Allocate & Deliver Resource		
7.4.22	NE(s) path design function	set			
		1.F.3.2.1	Allocate & Deliver Resource		
7.4.23	Loading program for service	ce feature(s) funct	ion set		
		1.F.3.2.2	Configure & Activate Resource		
7.4.24	NE(s) inventory notificatio	n function set			
		1.O.3.1.5	Manage Resource Inventory		
7.4.25	NE(s) inventory query fund	ction set			
		1.O.3.1.5	Manage Resource Inventory		
7.4.26	Manage pending changes in NE(s) function set				
		1.F.3.2.1	Allocate & Deliver Resource		
7.4.27	Access to parameters and c	ross-connects in 1	NEs function set		
		1.O.3.1.5	Manage Resource Inventory		
7.4.28	Access to service features i	in NEs function se	et		
		1.O.2.1.1	Manage Service Inventory		
		1.O.3.1.5	Manage Resource Inventory		
7.4.29	Self-inventory function set				
		1.F.3.2.4	Collect, Update & Report Resource Configuration Data		
7.4.3	Access route determination	function set			
		1.F.3.2.1	Allocate & Deliver Resource		
7.4.4	Directory address determin	ation function set			
		1.F.2.2.2	Allocate Specific Resources to Services		
7.4.5	Leased circuit route determ	nination function s	eet		
		1.F.3.2.1	Allocate & Deliver Resource		
7.4.6	Request for service functio	n set			
		1.F.2.2.2	Allocate Specific Resources to Services		
		1.F.2.2.4	Implement & Configure Service		
7.4.7	Service status administration	on function set			
		1.F.2.2.3	Track & Manage Work Orders		

M.3400ID	Function.Name	eTOM Process ID	Process.Name		
7.4.8	Network resource selection and assignment function set				
		1.F.3.2.1	Allocate & Deliver Resource		
		1.F.3.2.2	Configure & Activate Resource		
		1.F.3.2.4	Collect, Update & Report Resource Configuration Data		
7.4.9	Interexchange circuit desig	n function set			
		1.F.3.2.1	Allocate & Deliver Resource		
7.5	Status and control				
		1.A.2.3	Service Problem Management		
		1.FAB.4.6	S/P Interface Management		
		1.O.2.1	SM&O Support & Readiness		
		1.S.3.1	Resource Strategy & Planning		
7.5.1	Priority service policy fund	ction set			
		1.0.2.1.4	Enable Service Quality Management		
7.5.2	Priority service restoration	function set			
		1.A.2.3.1	Evaluate & Qualify Problem		
		1.A.2.3.2	Diagnose Problem		
		1.A.2.3.3	Plan & Assign Resolution		
		1.A.2.3.4	Track & Manage Resolution		
7.5.3	Message handling systems	network status fu	unction set		
		1.F.3.2.2	Configure & Activate Resource		
		1.F.3.2.4	Collect, Update & Report Resource Configuration Data		
		1.0.3.1.5	Manage Resource Inventory		
7.5.4	Leased circuit network stat	us function set			
		1.F.3.2.2	Configure & Activate Resource		
		1.F.3.2.4	Collect, Update & Report Resource Configuration Data		
		1.0.3.1.5	Manage Resource Inventory		
7.5.5	Transport network status fu	unction set			
		1.F.3.2.2	Configure & Activate Resource		
		1.F.3.2.4	Collect, Update & Report Resource Configuration Data		
		1.O.3.1.5	Manage Resource Inventory		
7.5.6	NE(s) status and control fu	nction set			
		1.F.3.2.2	Configure & Activate Resource		
		1.F.3.2.4	Collect, Update & Report Resource Configuration Data		
		1.O.3.1.5	Manage Resource Inventory		

M.3400ID	Function.Name	eTOM Process ID	Process.Name
7.5.7	Access to state information	in NEs function s	set
		1.F.3.2.4	Collect, Update & Report Resource Configuration Data
		1.O.3.1.5	Manage Resource Inventory
7.5.8	Notification of state change	es by NEs function	n set
		1.F.3.2.4	Collect, Update & Report Resource Configuration Data
		1.O.3.1.5	Manage Resource Inventory
8	Accounting Management		_
		1.A.3.4	Resource Performance Management
		1.B	Billing
		1.E.1	Strategic & Enterprise Planning
		1.E.2	Enterprise Risk Management
		1.E.3	Enterprise Effectiveness Management
		1.E.5	Financial & Asset Management
		1.E.6	Stakeholder & External Relations Management
		1.E.7	Human Resources Management
		1.OFAB.1	Customer Relationship Management
		1.OFAB.2	Service Management & Operation
		1.OFAB.4	Supplier/Partner Relationship Management
		1.P.3.3	Resource Development & Retirement
		1.SIP.1	Marketing & Offer Management
		1.SIP.2	Service Development & Management
		1.SIP.4	Supply Chain Development & Management
8.1	Usage Measurement		
		1.B.2.5	Service & Specific Instance Rating
		1.0.1.1	CRM Support & Readiness
		1.SIP.3	Resource Development & Management
8.1.1	Planning of the usage meas	surement process f	function set
		1.AB.3.5.4	Audit Resource Usage Data
		1.O.1.1.4	Support Billing & Collections
8.1.10	Measurement rules identifi	cation function se	t
		1.B.2.5.1	Mediate Usage Records
		1.B.2.5.2	Rate Usage Records
8.1.11	Network usage correlation	function set	
		1.AB.3.5.2	Process Resource Data
8.1.12	Usage short-term storage for	unction set	
		1.AB.3.5.3	Report Resource Data

M.3400ID	Function.Name	eTOM Process ID	Process.Name
8.1.13	Usage long-term storage fu	inction set	
		1.AB.3.5.3	Report Resource Data
8.1.14	Usage accumulation functi	on set	
		1.AB.3.5.1	Collect Resource Data
8.1.15	Usage validation function	set	
		1.B.2.5.1	Mediate Usage Records
8.1.16	Administration of usage da	ta collection func	tion set
		1.AB.3.5.2	Process Resource Data
8.1.17	Usage generation function	set	
		1.O.3.1.4	Enable Resource Data Collection & Processing
8.1.2	Management of the usage i	measurement proc	ess function set
		1.AB.3.5.3	Report Resource Data
		1.AB.3.5.4	Audit Resource Usage Data
8.1.3	Usage aggregation function	n set	,
		1.AB.3.5.3	Report Resource Data
		1.B.2.5.3	Analyse Usage Records
8.1.4	Service usage correlation f	unction set	, ,
		1.AB.3.5.2	Process Resource Data
		1.AB.3.5.3	Report Resource Data
8.1.5	Service usage validation fu	inction set	1
		1.AB.3.5.2	Process Resource Data
		1.B.2.5.1	Mediate Usage Records
8.1.6	Usage distribution function		
0.1.0	0 5 4 5 4 15 4 15 4 15 15 15 15 15 15 15 15 15 15 15 15 15	1.AB.3.5.3	Report Resource Data
8.1.7	Usage surveillance function		Treport Tessource Buttu
0.1.7	Suge survemmee runeurs.	1.AB.3.5.2	Process Resource Data
		1.AB.3.5.4	Audit Resource Usage Data
8.1.8	Usage error correction fund		Tradit resource esuge Butt
0.1.0	osage error correction rank	1.AB.3.5.2	Process Resource Data
8.1.9	Usage testing function set	1.1113.3.3.2	1100000 Resource Dum
0.1./	Suge testing function set	1.AB.3.5.4	Audit Resource Usage Data
8.2	Tariffing/pricing	1.AD.J.J.4	Truth Resource Osage Data
0.4	rammg/pnemg	1.B.1.8	Billing & Collections Management
		1.B.1.8 1.B.2.5	Service & Specific Instance Rating
		1.B.2.3 1.E.3.1	
			Process Management & Support
		1.E.5.1	Financial Management
		1.E.6.4	Regulatory Management
		1.I.1.2	Product & Offer Portfolio Planning

M.3400ID	Function.Name	eTOM Process ID	Process.Name		
		1.O.1.1	CRM Support & Readiness		
		1.O.4.1	S/PRM Operations Support & Readiness		
		1.SIP.3	Resource Development & Management		
8.2.1	Pricing strategy function se	et			
		1.O.1.1.4	Support Billing & Collections		
8.2.2	Tariff and price administra	tion function set			
		1.E.6.4	Regulatory Management		
		1.O.1.1.4	Support Billing & Collections		
8.2.3	Costing function set				
		1.AB.3.5.3	Report Resource Data		
		1.E.3.1	Process Management & Support		
		1.E.5.1	Financial Management		
8.2.4	Settlements policy function	n set			
		1.0.4.1.4	Support S/P Settlements & Billing Management		
8.2.5	Feature pricing function se	t			
		1.I.1.2	Product & Offer Portfolio Planning		
		1.I.1.3	Product & Offer Capability Delivery		
		1.0.1.1.4	Support Billing & Collections		
8.2.6	Provision of access to tarif	ff/price information function set			
		1.O.1.1.1	Support Customer Interface Management		
		1.0.1.1.5	Support Retention & Loyalty		
8.2.7	Rating usage function set				
		1.B.2.5.2	Rate Usage Records		
8.2.8	Totalling usage charges fur	nction set			
		1.B.1.8.2	Apply Pricing, Discounting & Rebate		
		1.B.1.8.3	Create & Deliver Bill		
8.3	Collections and Finance				
		1.B.1.8	Billing & Collections Management		
		1.B.2.5	Service & Specific Instance Rating		
		1.E.5.1	Financial Management		
		1.E.7.1	HR Policies & Practices		
		1.E.7.2	Organization Development		
		1.E.7.3	Workforce Strategy		
		1.E.7.4	Workforce Development		
		1.E.7.5	Employee & Labor Relations Management		
		1.F.4.2	S/P Settlements & Billing Management		
		1.FAB.1.2	Customer Interface Management		
		1.0.1.1	CRM Support & Readiness		

M.3400ID	Function.Name	eTOM Process ID	Process.Name		
		1.O.3.1	Resource Data Collection & Processing		
		1.SIP.3	Resource Development & Management		
8.3.1	Planning of the billing pro	ocess function set			
		1.B.1.8.4	Manage Customer Billing		
		1.0.1.1.4	Support Billing & Collections		
8.3.10	Taxation function set				
		1.E.5.1	Financial Management		
8.3.11	Human resources function	ı set			
		1.E.7.1	HR Policies & Practices		
		1.E.7.2	Organization Development		
		1.E.7.3	Workforce Strategy		
		1.E.7.4	Workforce Development		
8.3.12	Invoice assembly function	n set			
		1.B.1.8.3	Create & Deliver Bill		
8.3.13	Sending invoice function	set			
		1.B.1.8.3	Create & Deliver Bill		
8.3.14	Customer tax administrati	on function set			
		1.B.1.8.5	Manage Collection		
8.3.15	In-call service request fun				
		1.AB.3.5.1	Collect Resource Data		
		1.AB.3.5.2	Process Resource Data		
		1.AB.3.5.3	Report Resource Data		
		1.B.2.5.1	Mediate Usage Records		
		1.B.2.5.2	Rate Usage Records		
		1.B.2.5.3	Analyse Usage Records		
8.3.16	Storage of invoice function	n set			
		1.B.1.8.1	Manage Customer Bill Inquiries		
		1.B.1.8.5	Manage Collection		
		1.FAB.1.2.1	Manage Contact		
		1.FAB.1.2.2	Manage Request (Including Self Service)		
8.3.17	Receipt of payment functi	on set			
		1.B.1.8.5	Manage Collection		
		1.FAB.1.2.1	Manage Contact		
		1.FAB.1.2.2	Manage Request (Including Self Service)		
8.3.18	Inquiry response function	set			
		1.B.1.8.1	Manage Customer Bill Inquiries		
		1.FAB.1.2.1	Manage Contact		
		1.FAB.1.2.2	Manage Request (Including Self Service)		

M.3400ID	Function.Name	eTOM Process ID	Process.Name
8.3.19	Collections function set		
		1.B.1.8.5	Manage Collection
8.3.2	Management of the billing	process function	set
		1.B.1.8.4	Manage Customer Billing
		1.O.1.1.4	Support Billing & Collections
8.3.20	Customer account administ	tration function se	et
		1.FAB.1.2.1	Manage Contact
		1.FAB.1.2.2	Manage Request (Including Self Service)
		1.FAB.1.9.2	Build Customer Insight
8.3.21	Customer profile administr	ation function set	
		1.B.1.8.5	Manage Collection
		1.0.2.1.1	Manage Service Inventory
8.3.3	General accounting operati	ons function set	
		1.E.5.1	Financial Management
8.3.4	General ledger function set		
		1.E.5.1	Financial Management
8.3.5	Accounts receivable function	on set	
		1.B.1.8.5	Manage Collection
		1.E.5.1	Financial Management
8.3.6	Accounts payable function	set	
		1.B.4.5.1	Manage Account
		1.B.4.5.2	Receive & Assess Invoice
		1.B.4.5.3	Negotiate & Approve Invoice
		1.B.4.5.4	Issue Settlement Notice & Payment
		1.E.5.1	Financial Management
8.3.7	Payroll function set		
		1.E.7.5	Employee & Labor Relations Management
8.3.8	Benefits administration fun	iction set	
		1.E.7.1	HR Policies & Practices
8.3.9	Pension administration fun	ction set	
		1.E.7.1	HR Policies & Practices
8.4	Enterprise Control		
		1.A.3.3	Resource Trouble Management
		1.AB.3.5	Resource Data Collection & Processing
		1.E.1.1	Strategic Business Planning
		1.E.1.2	Business Development
		1.E.2.4	Audit Management
		1.E.2.5	Insurance Management

M.3400ID	Function.Name	eTOM Process ID	Process.Name		
		1.E.3.1	Process Management & Support		
		1.E.5.1	Financial Management		
		1.E.5.2	Asset Management		
		1.E.6.3	Shareholder Relations Management		
		1.E.6.4	Regulatory Management		
		1.E.6.6	Board & Shares/Securities Management		
		1.I.2.2	Service Capability Delivery		
		1.OFAB.3	Resource Management & Operations		
		1.P.2.3	Service Development & Retirement		
		1.S.1.1	Market Strategy & Policy		
		1.S.2.1	Service Strategy & Planning		
		1.S.4.1	Supply Chain Strategy & Planning		
8.4.1	Budgeting function set				
		1.A.3.3	Resource Trouble Management		
		1.E.1.1	Strategic Business Planning		
		1.E.5.1	Financial Management		
		1.S.1.1	Market Strategy & Policy		
		1.S.2.1	Service Strategy & Planning		
		1.S.4.1	Supply Chain Strategy & Planning		
8.4.10	Assets management function	on set			
		1.E.5.2	Asset Management		
8.4.11	Tracking of liabilities func				
		1.E.5.1	Financial Management		
8.4.2	Auditing function set				
		1.E.2.4	Audit Management		
8.4.3	Cash management function	n set			
		1.E.5.1	Financial Management		
8.4.4	Raising equity function set				
		1.E.6.6	Board & Shares/Securities Management		
8.4.5	Cost reduction function set				
		1.E.1.1	Strategic Business Planning		
		1.E.3.1	Process Management & Support		
		1.E.5.1	Financial Management		
8.4.6	Profitability analysis functi	ion set			
		1.E.5.1	Financial Management		
8.4.7	Financial reporting functio	n set			
		1.E.6.3	Shareholder Relations Management		
		1.E.6.4	Regulatory Management		

M.3400ID	Function.Name	eTOM Process ID	Process.Name
8.4.8	Insurance analysis function	set	
		1.E.2.5	Insurance Management
8.4.9	Investments function set		
		1.AB.3.5	Resource Data Collection & Processing
		1.E.1.1	Strategic Business Planning
		1.E.1.2	Business Development
		1.E.5.1	Financial Management
		1.I.1.2	Product & Offer Portfolio Planning
		1.I.2.2	Service Capability Delivery
		1.OFAB.3	Resource Management & Operations
		1.P.2.3	Service Development & Retirement
9	Security Management		
		1.A.3.4	Resource Performance Management
		1.E.2	Enterprise Risk Management
		1.E.6	Stakeholder & External Relations Management
		1.OFAB.1	Customer Relationship Management
		1.OFAB.2	Service Management & Operation
9.1	Prevention		
		1.E.2.2	Security Management
		1.E.6.5	Legal Management
		1.F.1.5	Order Handling
9.1.1	Legal review function set		
		1.E.6.5	Legal Management
9.1.2	Physical access security fu	nction set	
		1.E.2.2	Security Management
9.1.3	Guarding function set		
		1.E.2.2	Security Management
9.1.4	Personnel risk analysis fun	ction set	•
		1.E.2.2	Security Management
9.1.5	Security screening function	n set	•
		1.F.1.5.2	Authorize Credit
9.2	Detection	1	
		1.E.2.2	Security Management
		1.E.2.3	Fraud Management
		1.FAB.4.6	S/P Interface Management
		1.0.3.1	Resource Data Collection & Processing
		1.SIP.3	Resource Development & Management

M.3400ID	Function.Name	eTOM Process ID	Process.Name		
9.2.1	Investigation of changes in	revenue patterns	function set		
		1.E.2.3	Fraud Management		
9.2.10	Support element security a	larm reporting fun	action set		
		1.E.2.2	Security Management		
		1.O.3.1.4	Enable Resource Data Collection & Processing		
9.2.2	Support element protection	function set			
		1.AB.3.5.1	Collect Resource Data		
		1.AB.3.5.2	Process Resource Data		
		1.AB.3.5.3	Report Resource Data		
		1.AB.3.5.4	Audit Resource Usage Data		
9.2.3	Customer security alarm fu	inction set			
		1.E.2.2	Security Management		
9.2.4	Customer (external user) pr	rofiling function s	et		
		1.E.2.3	Fraud Management		
9.2.5	Customer usage pattern and	alysis function set			
		1.AB.3.5.2	Process Resource Data		
		1.AB.3.5.4	Audit Resource Usage Data		
		1.E.2.3	Fraud Management		
9.2.6	Investigation of theft of ser	vice function set			
		1.E.2.3	Fraud Management		
		1.FAB.1.9.3	Analyse and Manage Customer Risk		
9.2.7	Internal traffic and activity	pattern analysis f	unction set		
		1.O.3.1.2	Enable Resource Performance Management		
		1.0.3.1.4	Enable Resource Data Collection & Processing		
9.2.8	Network security alarm fur	nction set			
		1.E.2.2	Security Management		
		1.0.3.1.4	Enable Resource Data Collection & Processing		
9.2.9	Software intrusion audit fu	nction set			
		1.AB.3.5.4	Audit Resource Usage Data		
		1.E.2.2	Security Management		
9.3	Containment and Recovery	7			
		1.E.2.1	Business Continuity Management		
		1.E.2.2	Security Management		
		1.E.6.5	Legal Management		
		1.S.3.1	Resource Strategy & Planning		
9.3.1	Protected storage of busine	ss data function se			
		1.E.2.1	Business Continuity Management		

M.3400ID	Function.Name	eTOM Process ID	Process.Name		
9.3.10	Network intrusion recovery	function set			
		1.F.3.2.2	Configure & Activate Resource		
9.3.11	Administration of network	revocation list fur	nction set		
		1.E.2.2	Security Management		
9.3.12	Protected storage of network	rk configuration d	ata function set		
		1.E.2.1	Business Continuity Management		
9.3.13	Severing internal connection	ons function set			
		1.F.3.2.2	Configure & Activate Resource		
9.3.14	NE(s) intrusion recovery fu	inction set			
		1.F.3.2.2	Configure & Activate Resource		
9.3.15	Administration of NE(s) re	vocation list funct	tion set		
		1.E.2.2	Security Management		
9.3.16	Protected storage of NE(s)	configuration data	a function set		
		1.E.2.1	Business Continuity Management		
9.3.2	Exception report action fur	nction set			
		1.F.3.2.2	Configure & Activate Resource		
		1.F.3.2.4	Collect, Update & Report Resource Configuration Data		
9.3.3	Theft of service action fund	ction set	-		
		1.E.2.2	Security Management		
		1.E.6.5	Legal Management		
		1.F.3.2.4	Collect, Update & Report Resource Configuration Data		
9.3.4	Legal action function set				
		1.E.6.5	Legal Management		
9.3.5	Apprehending function set				
		1.E.2.2	Security Management		
9.3.6	Service intrusion recovery	function set			
		1.F.2.2.4	Implement & Configure Service		
9.3.7	Administration of customer	r revocation list fu	unction set		
		1.E.2.2	Security Management		
9.3.8	Protected storage of custon	ner data function s	set		
		1.E.2.1	Business Continuity Management		
9.3.9 Severing external connections function set					
		1.F.3.2.2	Configure & Activate Resource		
9.4	Security Administration	•	,		
		1.B.2.5	Service & Specific Instance Rating		
		1.E.2.1	Business Continuity Management		
	i e e e e e e e e e e e e e e e e e e e	i .	<u> </u>		

M.3400ID	Function.Name	eTOM Process ID	Process.Name
		1.E.2.2	Security Management
		1.E.2.4	Audit Management
		1.FAB.4.6	S/P Interface Management
		1.S.3.1	Resource Strategy & Planning
9.4.1	Security policy function se	t	
		1.E.2.2	Security Management
9.4.10	Administration of external	encryption and ke	eys function set
		1.E.2.2	Security Management
9.4.11	Administration of external	security protocols	s function set
		1.E.2.2	Security Management
9.4.12	Customer audit trail function	on set	,
		1.B.2.5.3	Analyse Usage Records
		1.E.2.2	Security Management
		1.E.2.4	Audit Management
9.4.13	Customer security alarm m	anagement functi	
	·	1.E.2.2	Security Management
		1.0.3.1.4	Enable Resource Data Collection & Processing
9.4.14	Testing of audit trail mecha	anism function set	
	C	1.E.2.4	Audit Management
9.4.15	Administration of internal	authentication fun	· · · · · · · · · · · · · · · · · · ·
		1.E.2.2	Security Management
9.4.16	Administration of internal	access control fun	ection set
		1.E.2.2	Security Management
9.4.17	Administration of internal	certification funct	
		1.E.2.2	Security Management
9.4.18	Administration of internal	1	
		1.E.2.2	Security Management
9.4.19	Network audit trail manage	1	, ,
		1.E.2.2	Security Management
		1.E.2.4	Audit Management
		1.F.3.2.4	Collect, Update & Report Resource Configuration Data
9.4.2	Disaster recovery planning	function set	
	, r8	1.E.2.1	Business Continuity Management
9.4.20	Network security alarm ma	1	
J. 1.20	2.20moin booding didini inc	1.E.2.2	Security Management
		1.0.3.1.4	
		1.0.3.1.4	Enable Resource Data Collection & Processing

M.3400ID	Function.Name	eTOM Process ID	Process.Name
9.4.21	NE(s) audit trail manageme	ent function set	
		1.E.2.2	Security Management
		1.E.2.4	Audit Management
		1.F.3.2.4	Collect, Update & Report Resource Configuration Data
9.4.22	NE(s) security alarm mana	gement function s	et
		1.E.2.2	Security Management
		1.0.3.1.4	Enable Resource Data Collection & Processing
9.4.23	Administration of keys for	NEs function set	
		1.E.2.2	Security Management
9.4.24	Administration of keys by	an NE function se	t
		1.E.2.2	Security Management
9.4.3	Manage guards function se	t	
		1.E.2.2	Security Management
9.4.4	9.4.4 Audit trail analysis function set		
		1.E.2.2	Security Management
		1.E.2.4	Audit Management
9.4.5	.4.5 Security alarm analysis function set		
		1.E.2.2	Security Management
		1.0.3.1.4	Enable Resource Data Collection & Processing
9.4.6	Assessment of corporate da	nta integrity functi	ion set
		1.E.2.2	Security Management
9.4.7	Administration of external	authentication fur	nction set
		1.E.2.2	Security Management
9.4.8	Administration of external	access control fur	nction set
		1.E.2.2	Security Management
9.4.9	Administration of external	certification funct	tion set
		1.E.2.2	Security Management

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Series N	Maintenance: international sound programme and television transmission circuits
Series N Series O	
	Maintenance: international sound programme and television transmission circuits
Series O	Maintenance: international sound programme and television transmission circuits  Specifications of measuring equipment
Series O Series P	Maintenance: international sound programme and television transmission circuits  Specifications of measuring equipment  Telephone transmission quality, telephone installations, local line networks
Series O Series P Series Q	Maintenance: international sound programme and television transmission circuits  Specifications of measuring equipment  Telephone transmission quality, telephone installations, local line networks  Switching and signalling
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Series O Series P Series Q Series R Series S	Maintenance: international sound programme and television transmission circuits  Specifications of measuring equipment  Telephone transmission quality, telephone installations, local line networks  Switching and signalling  Telegraph transmission  Telegraph services terminal equipment
Series O Series P Series Q Series R Series S Series T	Maintenance: international sound programme and television transmission circuits  Specifications of measuring equipment  Telephone transmission quality, telephone installations, local line networks  Switching and signalling  Telegraph transmission  Telegraph services terminal equipment  Terminals for telematic services
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