# **Enhanced Telecom Operations Map<sup>®</sup>** (eTOM)

# **The Business Process Framework**

For The Information and Communications Services Industry

Addendum T: eTOM to M.3400 Mapping Application Note

Release 4.5



**GB921 T** 

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# **Acknowledgments**

This eTOM to M.3400 Mapping Application Note, TMF GB921T Version 4.5 is derived from joint work by the TeleManagement Forum and ITU-T developed through the Telecom Management Collaboration Focus Group. This acts as a genuinely collaborative effort with representatives from both organizations delivering mutually-agreed results.

The content of this document is also published as ITU-T M.3050 Supplement 3 – eTOM to M.3400 Mapping, which is part of the M.3050 Recommendations series.

Thanks are due on the TeleManagement Forum side in particular to Johan Vandenbergh of Lucent Technologies who led the TM Forum involvement and acted as Vice-Chair of the Telecom Management Collaboration Focus Group., as well as handling editing of this document, Valuable contribution was also made by the eTOM Team generally to the Focus Group work. On the ITU-T side, special thanks to Geoff Caryer, of BTexact Technologies who acted as Chair of the Telecom Management Collaboration Focus Group, and also to David Sidor of Nortel Networks, Chair of ITU-T Study Group 4, which acted as sponsor of the ITU-T involvement in the work.

# **About TeleManagement Forum**

TeleManagement Forum is an international consortium of communications service providers and their suppliers. Its mission is to help service providers and network operators automate their business processes in a cost- and time-effective way. Specifically, the work of the TM Forum includes:

- Establishing operational guidance on the shape of business processes.
- Agreeing on information that needs to flow from one process activity to another.
- Identifying a realistic systems environment to support the interconnection of operational support systems.
- Enabling the development of a market and real products for integrating and automating telecom operations processes.

The members of TM Forum include service providers, network operators and suppliers of equipment and software to the communications industry. With that combination of buyers and suppliers of operational support systems, TM Forum is able to achieve results in a pragmatic way that leads to product offerings (from member companies) as well as written specifications.

### **About this Document**

This is a TM Forum Guidebook. The guidebook format is used, for example, when the document lays out a 'core' part of TM Forum's approach to automating business processes.

### **Document Life Cycle**

The "Enhanced Telecom Operations Map® (eTOM) The Business Process Framework For The Information and Communications Services Industry" has been issued as a TMF Approved Version Release 4.0 with a Guidebook Number of 921. This document (GB921T v4.5) is an Addendum following on from this release, and is not TMF Approved at this stage.

See main document (GB921 v4.5) for further information on the eTOM document suite.

## Time Stamp

This version of the eTOM Business Process Framework can be considered valid until it is updated or replaced.

## How to obtain a copy

An electronic copy of the eTOM Business Process Framework can be downloaded at the TM Forum Web Site (<a href="http://www.tmforum.org">http://www.tmforum.org</a>). Contact the TM Forum office (see previously for contact details, or via the web site) for any further information.

# How to comment on the document

Comments must be in written form and addressed to the contacts below for review with the project team. Please send your comments and input to:

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Please be specific, since your comments will be dealt with by a team evaluating numerous inputs and trying to produce a single text. Thus, we appreciate significant specific input. We are looking for more input than "word-smith" items, however editing and structural help are greatly appreciated where better clarity is the result.

## **Document History**

Version	Modified by	Date	Purpose/Changes from Previous/Status
eTOM Addend		08/04	Launch of this Addendum, packaged as GB921T for this release.
um T NGOSS Version 4.5			Captures content developed jointly with ITU-T on eTOM/M.3400 Mappings into a TM Forum document
Version 4.6	TMF Staff	11/2004	Minor changes prior to Member Evaluation
Version 4.6.1	TMF Staff	09/2006	Updated notice statement

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#### **Preface**

#### **About TeleManagement Forum**

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The members of TM Forum include service providers, network operators and suppliers of equipment and software to the communications industry. With that combination of buyers and suppliers of operational support systems, TM Forum is able to achieve results in a pragmatic way that leads to product offerings (from member companies) as well as paper specifications.

TeleManagement Forum supports several kinds of projects, including Process Automation and Technology Integration projects, as well as Catalyst Projects that support both Process Automation and Technology Integration projects through real-product integration.

#### **Use and Extension of a TM Forum Application Note**

This document defines the business problem and requirement model for the use of the ITIL process framework within the eTOM domain. The Application Note represents a consensus view on how ITIL can be mapped to eTOM to solve a specific business problem. It is expected that this document will be used:

- To facilitate requirement agreement between Service Providers and vendors
- As input to a service Provider's Request for Information / Request for Proposal (RFI/RFP—RFX)
- As input for vendors developing COTS products
- As a source of requirements for other bodies working in this area.

## Scope

The Enhanced Telecom Operation 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 Recommendation itself.

This Recommendation is a multipart document with the following structure:

- M.3050.0 eTOM Introduction 8
- 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 Process Flow Examples (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 Business Operations Map (BOM) Application Note (GB921 Addendum C)
- M.3050 Supplement 3 eTOM to M.3400 Mapping

Additional parts will be published as material becomes available.

This multipart Recommendation builds on the Management Services approach described in M.3010 and M.3200 by developing a Business Process Framework

The eTOM to M.3400 Mapping Application Note GB921 T document is based on the eTOM to M.3400 Mapping Supplement, which is part of the multipart Recommendation. It 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 Application Note, in order to facilitate the application of both these processes and functions within the development and integration of Business and Operations Support Systems.

# 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 re-use of solutions, as is described in the part 0 of the Recommendation (the Introduction) [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 Communication service provider. Process elements – components of overall business processes – can be positioned within a model to show organisational, functional and other relationships, and can be combined within process flows that trace activity paths through the business. The eTOM concepts are described in the part 1 of the Recommendation (eTOM - the Business Process Framework) [5].

This section 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]).

#### 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.

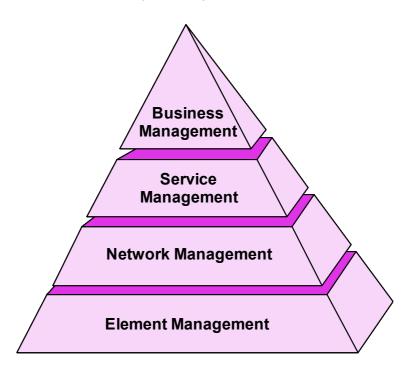


Figure 1 - Basic TMN Logical layering architecture Model

Some of the concepts defined by the TMN are very relevant for the context of this Recommendation. Recommendation 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. 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 telecommunication managed 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 M.3400 [1] categorized according to their FCAPS application.

In describing the requirements for an interface, the functions identified may reference those defined in Recommendation 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.

# The Enhanced Telecom Operations Map Business Process Framework

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. Fulfillment, 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

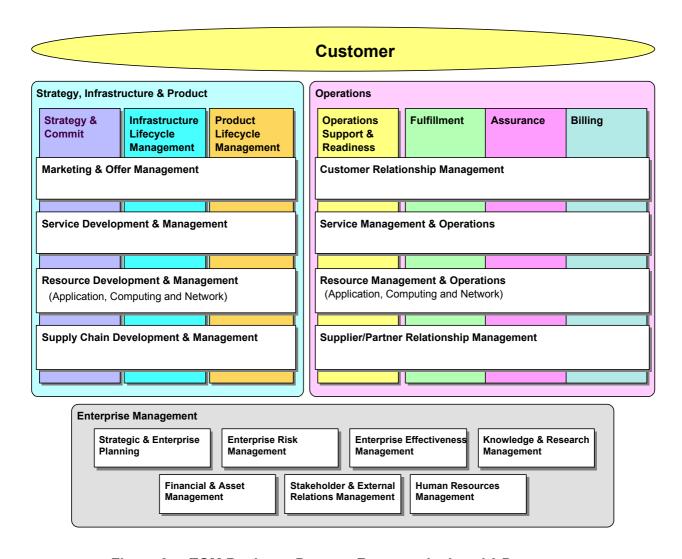


Figure 2 - eTOM Business Process Framework - Level 0 Processes

# **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 optimise 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, realise 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.

## 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. The 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 standardised 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 organise the process analysis. The levels in the hierarchy provide an increasing level of detail. There comes a point where it does no longer make sense to further decompose: further details are filled in by the process flows. At this level, the M.3400 [4] management functions meld with the processes. This means that the functional view provided by M.3400 [4] corresponds to the lowest level of process elements.

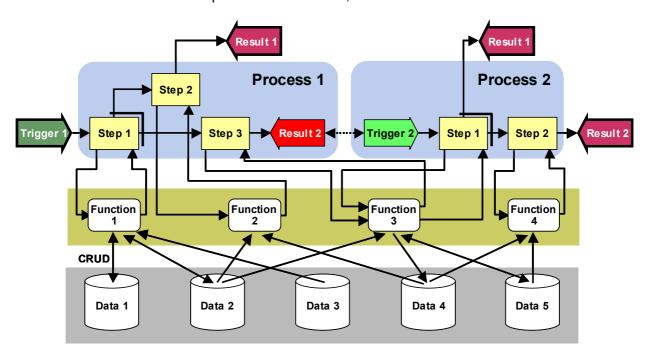
The mapping of M.3400 to eTOM is expected to help validating and completing the eTOM process analysis work in the relevant process areas.

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

# **Linking Functions to Processes**

#### **About Processes, Functions and Data**

The relationship between processes and functions is illustrated in Figure 3 - Relationship between Processes, Functions and Data.



CRUD: Create, Read, Update, Delete

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 M.3400 defines TMN Management Function. 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 alignes well with the view of TMN Management Functions in M.3400 as co-operative interactions between application processes in managing and managed systems. For functions in particularthe 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 document, 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 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 subprocesses. 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 - Relationship between Processes, Functions and Data), 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.

# **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 - Processes, Function Set Groups and Data Areas) helps to position them, but does not describe the Function Set Groups or Function Sets in detail (see Reference [1] for more detail).

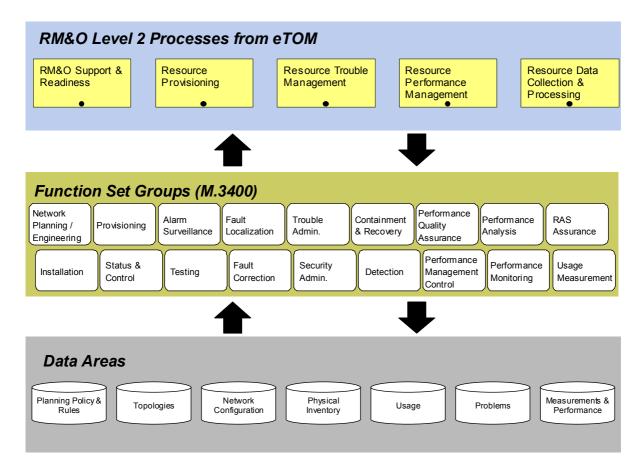


Figure 4 - Processes, Function Set Groups and Data Areas

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 - Relationship Between Processes and Functions.

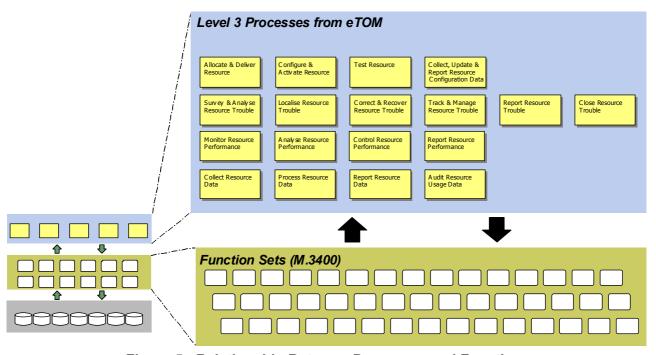


Figure 5 - Relationship Between Processes and Functions

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 – Linking Process Flows with Function Set Groups 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 applications point of view.

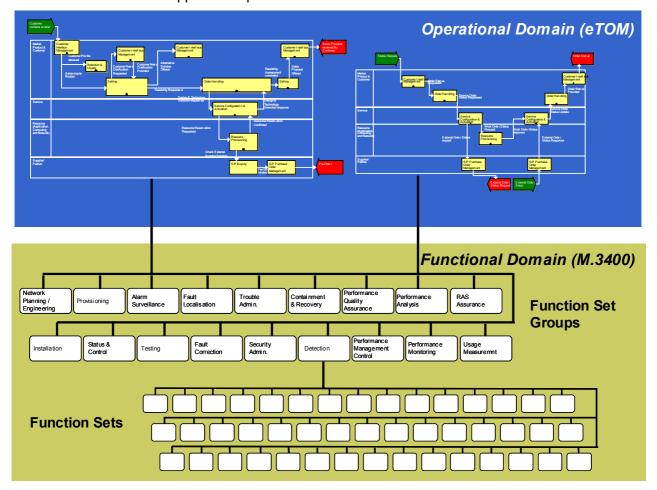


Figure 6 – Linking Process Flows with Function Set Groups

Appendix A 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 B and Annex C 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 A – abstract mapping figure - on one hand and Appendix B & C – detailed mapping table - on the other hand are quite different. The mapping tables attempt to clarify the detailed and precise relationship between M3400 functions and eTOM processes as far as possible, since the approach of eTOM and M3400 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.

## **Outlook to future work**

Possible future workitems may include:

- Elaborating of the abstract mapping figures from Appendix A
- Validating of the detailed mappings from Appendix B & C
- Complementing the current mapping with the data aspects

#### **ANNEX A: ABBREVIATIONS**

The following abbreviations are additional to those defined in eTOM - The Business Process Framework [8]

NGN Next Generation Network

OSI Open Systems Interconnection

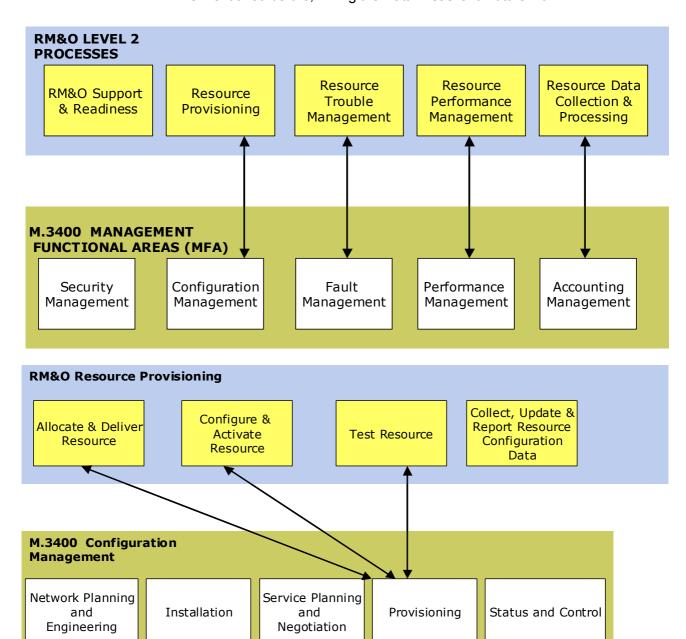
TM Forum TeleManagement Forum (see also TMF)

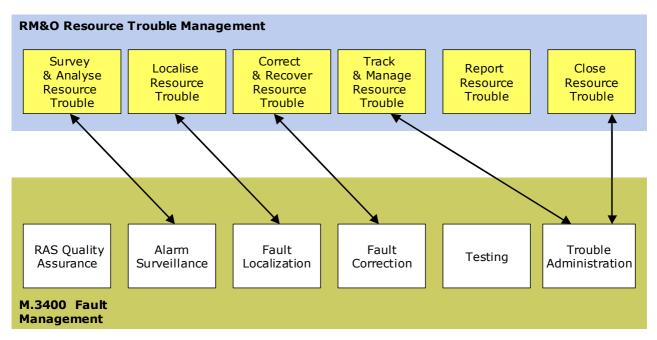
#### **ANNEX B: REFERENCES**

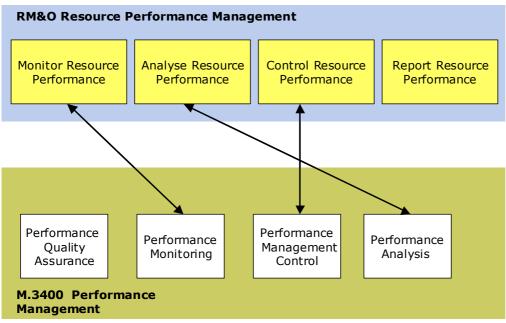
- [1]. ITU-T Recommendation M.3400 (02/2000) TMN Management Functions,
- [2] ITU-T Recommendation M.3010 (02/2000) Principles for a Telecommunication Management Network,
- [3] ITU-T Recommendation M.3200 (04/1997) TMN Management Services and telecommunications managed areas: overview
- [4] M.3050.0 (2004) Enhanced Telecommunications Operations Map (eTOM) Introduction
- [5] M.3050.1 Enhanced Telecommunications Operations Map (eTOM) the Business Process Framework
- [6] M.3050.2 Enhanced Telecommunications Operations Map (eTOM) Process Decompositions and Descriptions
- [7] M.3050.3 Enhanced Telecommunications Operations Map (eTOM) Process Flow Examples
- [8] Enhanced Telecom Operations Map<sup>®</sup> (eTOM), TMF, GB921, Approved Version 4.0
- [9] Enhanced Telecom Operations Map® (eTOM) Addendum D, TMF, GB921 D, Approved Version 4.0
- [10] Network Management Detailed Operations Map, TMF, GB908, Evaluation Version 1.0
- [11] Telecom Operations Map, TMF, GB910, Evaluation Version 2.1

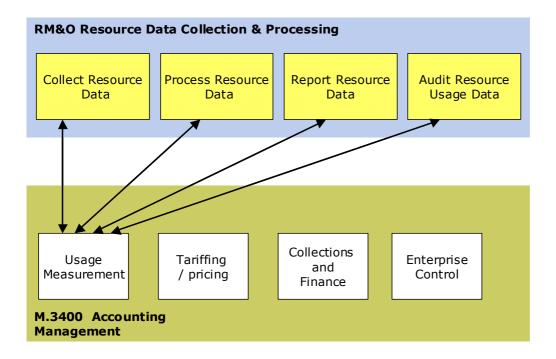
# **Appendix A – eTOM Level 2 Processes mapped to M.3400 Function Set Groups**

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 are provided in Appendix B. As mentioned before, linking the Data Areas is for future work.









# **Appendix B – eTOM-to-M.3400 Mapping table**

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

Table 1 - eTOM-to-M.3400 Mapping table

eTOM Process ID	Process.Name	M3400ID	Function.Name
1.A	Assurance		
		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 & Initiate Resolution		
		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

eTOM Process ID	Process.Name	M3400ID	Function.Name
1.A.1.6.4	Close Problem		
		6.6.6	Trouble ticket administration function set
1.A.2.3	Service Problem Management		
		7.5	Status and control
1.A.2.3.1	Evaluate & Qualify 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 Resolution		
		7.5.2	Priority service restoration function set
1.A.2.3.4	Track & Manage Resolution		
		7.5.2	Priority service restoration function set
1.A.2.4	Service Quality Management		
		5.1	Performance Quality Assurance
1.A.2.4.2	Analyze Service Quality		
		5.1.3	Subscriber service quality criteria function set
1.A.3.3	Resource Trouble Management		
		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

eTOM Process ID	Process.Name	M3400ID	Function.Name
		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 & Analyze Resource 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
		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 Trouble		
		6.1.5	Network outage reporting function set
		6.2.10	Failure event detection and reporting function set

eTOM Process ID	Process.Name	M3400ID	Function.Name
		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 Resource Trouble		
		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 Resource 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 Trouble		
		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	M3400ID	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 Performance Management		
		5.2	Performance Monitoring
		5.4	Performance Analysis
		8	Accounting Management
		9	Security Management
1.A.3.4.1	Monitor Resource Performance		
		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	Analyze Resource Performance		
		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

eTOM Process ID	Process.Name	M3400ID	Function.Name
		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
		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 Performance		
		7.4.20	Assignable inventory management function set
1.A.3.4.4	Report Resource Performance		
		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

eTOM Process ID	Process.Name	M3400ID	Function.Name
1.A.4.4.2	Restore S/P Service Performance		
		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 Collection & Processing		
		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
		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		
		5.2.10	Detection, counting, storage and reporting function set
		5.2.6	Traffic performance monitoring function set

eTOM Process ID	Process.Name	M3400ID	Function.Name
		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 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
		6.2.10	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
		6.4.5	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

eTOM Process ID	Process.Name	M3400ID	Function.Name
		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	M3400ID	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 Usage 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		
		8.2	Tariffing/pricing
		8.3	Collections and Finance
1.B.1.8.1	Manage Customer Bill Inquiries		
		8.3.16	Storage of invoice function set
		8.3.18	Inquiry response function set
1.B.1.8.2	Apply Pricing, Discounting & Rebate		
		8.2.8	Totalling usage charges function set

eTOM Process ID	Process.Name	M3400ID	Function.Name
1.B.1.8.3	Create & Deliver Bill		
		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 Billing		
		8.3.1	Planning of the billing process function set
		8.3.2	Management of the billing process function set
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 Instance 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 Records		
		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	Analyze Usage Records		
		8.1.3	Usage aggregation function set

eTOM Process ID	Process.Name	M3400ID	Function.Name
		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 Invoice		
		8.3.6	Accounts payable function set
1.B.4.5.3	Negotiate & Approve Invoice		
		8.3.6	Accounts payable function set
1.B.4.5.4	Issue Settlement Notice & Payment		
		8.3.6	Accounts payable function set
1.E.1	Strategic & Enterprise Planning		
		7	Configuration Management
		8	Accounting Management
1.E.1.1	Strategic Business Planning		
		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 Development		
		8.4	Enterprise Control
		8.4.9	Investments function set
1.E.1.3	Enterprise Architecture Management		
		7.1	Network Planning and Engineering
		7.1.5	Management of planning and engineering process function set
1.E.2	Enterprise Risk Management		
		5	Performance Management
		8	Accounting Management
		9	Security Management
1.E.2.1	Business Continuity Management		
		5.3	Performance Management Control

eTOM Process ID	Process.Name	M3400ID	Function.Name
		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 Management		
		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
		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

eTOM Process ID	Process.Name	M3400ID	Function.Name
		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
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

eTOM Process ID	Process.Name	M3400ID	Function.Name
		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 Management		
		8.4	Enterprise Control
		8.4.8	Insurance analysis function set
1.E.3	Enterprise Effectiveness Management		
		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		
		7.2	Installation
		7.2.4	Real estate management function set
1.E.5	Financial & Asset Management		
		8	Accounting Management
1.E.5.1	Financial Management		
		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

Process.Name	M3400ID	Function.Name
	8.3.5	Accounts receivable function set
	8.3.6	Accounts payable function set
	8.4	Enterprise Control
	8.4.1	Budgeting function set
	8.4.11	Tracking of liabilities function set
	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
Asset Management		
	8.4	Enterprise Control
	8.4.10	Assets management function set
Stakeholder & External Relations Management		
	7	Configuration Management
	8	Accounting Management
	9	Security Management
Corporate Communications & Image Management		
	7.3	Service Planning and Negotiation
	7.3.5	External relations (legal, stockholders, regulators, public relations) function set
Community Relations Management		
	7.3	Service Planning and Negotiation
	7.3.5	External relations (legal, stockholders, regulators, public relations) function set
Shareholder Relations Management		
	7.3	Service Planning and Negotiation
	7.3.5	External relations (legal, stockholders, regulators, public relations) function set
	Asset Management  Stakeholder & External Relations Management  Corporate Communications & Image Management  Community Relations Management	8.3.5 8.3.6 8.4 8.4.1 8.4.11 8.4.3 8.4.5 8.4.6 8.4.9 Asset Management 8.4 8.4.10 Stakeholder & External Relations Management 7 8 9 Corporate Communications & Image Management 7.3 7.3.5 Community Relations Management 7.3 7.3.5 Shareholder Relations Management 7.3 7.3.5

eTOM Process ID	Process.Name	M3400ID	Function.Name
		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
		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/Securities Management		
		7.3	Service Planning and Negotiation
		7.3.5	External relations (legal, stockholders, regulators, public relations) function set
		8.4	Enterprise Control
		8.4.4	Raising equity function set
1.E.7	Human Resources Management		
		8	Accounting Management
1.E.7.1	HR Policies & Practices		
		8.3	Collections and Finance
		8.3.11	Human resources function set

eTOM Process ID	Process.Name	M3400ID	Function.Name
		8.3.8	Benefits administration function set
		8.3.9	Pension administration function set
1.E.7.2	Organization Development		
		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	Fulfillment		
		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		
		9.1	Prevention
1.F.1.5.2	Authorize Credit		
		9.1.5	Security screening function set
1.F.2.2	Service Configuration & Activation		
		6.5	Testing
		7.2	Installation

eTOM Process ID	Process.Name	M3400ID	Function.Name
		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 Resources to Services		
		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 Work 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 & Configure 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-End		
		6.5.2	Service test function set
		7.2.5	Arrangement of installation with customer function set
1.F.3.2	Resource Provisioning		
		5.1	Performance Quality Assurance
		5.4	Performance Analysis
		6.5	Testing
		7.4	Provisioning
1.F.3.2.1	Allocate & Deliver Resource		
		7.4.1	Provisioning policy function set
		7.4.10	Access circuit design function set
		7.4.11	Leased circuit design function set

eTOM Process ID	Process.Name	M3400ID	Function.Name
		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
		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 & Activate 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		

eTOM Process ID	Process.Name	M3400ID	Function.Name
		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 & Report 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
		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 & Billing Management		
		8.3	Collections and Finance
1.F.4.2.1	Select Supplier/Partner		

eTOM Process ID	Process.Name	M3400ID	Function.Name
		7.2.7	Material management function set
1.F.4.2.2	Determine S/P Pre-Requisition Feasibility		
		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/P Product		
		7.2.7	Material management function set
1.FAB.1.2	Customer Interface Management		
		6.4	Fault Correction
		7.3	Service Planning and Negotiation
		8.3	Collections and Finance
1.FAB.1.2.1	Manage Contact		
		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 (Including Self Service)		
		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.FAB.1.9.2	Build Customer Insight		
		8.3.20	Customer account administration function set
1.FAB.1.9.3	Analyze and Manage Customer Risk		
		9.2.6	Investigation of theft of service function set
1.FAB.4.6	S/P Interface Management		

eTOM Process ID	Process.Name	M3400ID	Function.Name
		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 Capability Delivery		
		8.2.5	Feature pricing function set
1.l.1.4	Marketing Capability Delivery		
		7.3	Service Planning and Negotiation
		7.3.3	Marketing function set
1.I.2.2	Service Capability Delivery		
		6.1	RAS Quality Assurance
		6.1.2	Service availability goal setting function set

eTOM Process ID	Process.Name	M3400ID	Function.Name
		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
		7.3.8	Customer service planning function set
		8.4	Enterprise Control
		8.4.9	Investments function set
1.I.3.2	Requisition Management		
		7.2	Installation
1.1.4.2	Supply Chain Capability 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 & Readiness		
		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 Interface Management		
		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 & Collections		
		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

eTOM Process ID	Process.Name	M3400ID	Function.Name
		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 Fulfillment		
		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		
		7.3.4	Management of sales process function set
1.0.2.1	SM&O Support & Readiness		
		5.1	Performance Quality Assurance
		5.4	Performance Analysis
		6.1	RAS Quality Assurance
		7.3	Service Planning and Negotiation
		7.5	Status and control
1.0.2.1.1	Manage Service Inventory		
		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 Quality 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 Collection & Processing		
		8.3	Collections and Finance

eTOM Process ID	Process.Name	M3400ID	Function.Name
		9.2	Detection
1.0.3.1.1	Enable Resource Provisioning		
		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 Performance Management		
		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
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

eTOM Process ID	Process.Name	M3400ID	Function.Name
		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 Inventory		
		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

eTOM Process ID	Process.Name	M3400ID	Function.Name
		7.5.8	Notification of state changes by NEs function set
1.0.3.1.6	1.O.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 Support & Readiness		
		8.2	Tariffing/pricing
1.0.4.1.4	Support S/P Settlements & Billing Management		
		8.2.4	Settlements policy function set
1.OFAB.1	Customer Relationship 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 Management & 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

eTOM Process ID	Process.Name	M3400ID	Function.Name
		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
1.OFAB.4	Supplier/Partner Relationship Management		
		5	Performance Management
		6	Fault Management
		7	Configuration Management
		8	Accounting Management
1.P	Product Lifecycle Management		
		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 Development & 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 Development & Retirement		
		8	Accounting Management

eTOM Process ID	Process.Name	M3400ID	Function.Name
1.P.4.3	Supply Chain Development & Change 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 & Policy		
		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
1.S.2.1	Service Strategy & Planning		
		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

eTOM Process ID	Process.Name	M3400ID	Function.Name
		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 Strategy & 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 Management		
		7	Configuration Management
		8	Accounting Management
1.SIP.2	Service Development & Management		
		5	Performance Management
		6	Fault Management
		7	Configuration Management
		8	Accounting Management
1.SIP.3	Resource Develoloment & Management		
		6	Fault Management
		7	Configuration Management
		8.1	Usage Measurement
		8.2	Tariffing/pricing
		8.3	Collections and Finance
		9.2	Detection

eTOM Process ID	Process.Name	M3400ID	Function.Name
1.SIP.4	Supply Chain Development & Management		
		7	Configuration Management
		8	Accounting Management

Enhanced Telecom Operations Map® Addendum T - eTOM to M.3400 Mapping Application Note

## **Appendix C – 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 (M.3400 [1]), to eTOM processes (M.3050.2 [6]).

Table 2 - M.3400-to-eTOM Mapping table

M3400ID	Function.Name	eTOM Process ID	Process.Name
5	Performance Management		
		1.A	Assurance
		1.B	Billing
		1.E.2	Enterprise Risk Management
		1.F	Fulfillment
		1.0	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 Assurance		
		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

M3400ID	Function.Name	eTOM Process	Process.Name
		1.0.2.1	SM&O Support & Readiness
		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 setting 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 set		
		1.A.3.3	Resource Trouble Management
5.1.3	Subscriber service quality criteria function set		
		1.A.2.4.2	Analyze Service Quality
5.1.4	QOS performance assessment function set		
		1.0.2.1.4	Enable Service Quality Management
		1.0.3.1.2	Enable Resource Performance Management
5.1.5	Network performance assessment function set		
		1.0.3.1.2	Enable Resource Performance Management
5.1.6	NE(s) performance assessment function set		
		1.A.3.4.2	Analyze Resource Performance
5.1.7	Data integrity check function set		
		1.A.3.4.2	Analyze 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 policy function set		

M3400ID	Function.Name	eTOM Process	Process.Name
		1.0.3.1.2	Enable Resource Performance Management
5.2.10	Detection, counting, storage and reporting function set		
		1.A.3.4.1	Monitor Resource Performance
		1.A.3.4.2	Analyze 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
5.2.2	Network performance monitoring event correlation and filtering function set		
		1.A.3.4.2	Analyze 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 trending function set		
		1.A.3.4.2	Analyze 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 collection 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	Analyze 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 monitoring function set		

M3400ID	Function.Name	eTOM Process	Process.Name
		1.A.3.4.1	Monitor Resource Performance
		1.A.3.4.2	Analyze 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 alert processing function set		
		1.A.3.4.2	Analyze 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 set		
		1.A.3.4.2	Analyze 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
5.2.9	Performance monitoring data accumulation function set		
		1.A.3.4.1	Monitor Resource Performance
		1.A.3.4.2	Analyze 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 management policy function set		
		1.E.2.1	Business Continuity Management

M3400ID	Function.Name	eTOM Process	Process.Name
		1.0.3.1.4	Enable Resource Data Collection & Processing
5.3.2	Traffic control function set		
		1.0.3.1.4	Enable Resource Data Collection & Processing
5.3.3	Traffic administration function set		
		1.0.3.1.4	Enable Resource Data Collection & Processing
5.3.4	Performance administration function set		
		1.0.3.1.2	Enable Resource Performance Management
5.3.5	Execution of traffic control function set		
		1.0.3.1.4	Enable Resource Data Collection & Processing
5.3.6	Audit report function set		-
		1.E.2.4	Audit Management
		1.0.3.1.4	Enable Resource Data Collection & Processing
5.4	Performance Analysis		
	- Crommento y anelysis	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
5.4.1	Recommendations for performance improvement 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 analysis function set		
		1.A.3.4.1	Monitor Resource Performance
		1.A.3.4.2	Analyze Resource Performance

M3400ID	Function.Name	eTOM Process	Process.Name
5.4.11	NE(s) traffic capacity analysis function set		
		1.A.3.4.1	Monitor Resource Performance
		1.A.3.4.2	Analyze Resource Performance
5.4.2	Exception threshold policy function set		
		1.0.3.1.2	Enable Resource Performance Management
5.4.3	Traffic forecasting function set		
		1.A.3.3	Resource Trouble Management
5.4.4	Customer service performance summary (excludes traffic) function set		
		1.0.2.1.4	Enable Service Quality Management
5.4.5	Customer traffic performance summary function set		
		1.0.2.1.4	Enable Service Quality Management
		1.0.3.1.4	Enable Resource Data Collection & Processing
5.4.6	Traffic exception analysis function set		
		1.A.3.4.2	Analyze 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 function set		
		1.A.3.4.2	Analyze 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	Network performance characterization function set		
		1.A.3.4.2	Analyze 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

M3400ID	Function.Name	eTOM Process ID	Process.Name
5.4.9	NE(s) performance characterization 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
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
		1.1.2.2	Service Capability Delivery
		1.0.2.1	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 setting function set		
		1.1.2.2	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

M3400ID	Function.Name	eTOM Process	Process.Name
		1.AB.3.5.3	Report Resource Data
6.1.4	Service outage reporting function 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 & Analyze 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
6.1.6	NE(s) outage reporting function 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 and reporting function set		
		1.A.3.3.1	Survey & Analyze 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 analysis, including correlation and filtering function set		
		1.A.3.3.1	Survey & Analyze 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

M3400ID	Function.Name	eTOM Process	Process.Name
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 function set		
		1.A.3.3.1	Survey & Analyze 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 set		
		1.A.3.3.1	Survey & Analyze Resource Trouble
6.2.8	Log control function set		
		1.A.3.3.4	Track & Manage Resource Trouble
6.2.9	Alarm correlation and filtering function set		
		1.A.3.3.1	Survey & Analyze 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 function set		
		1.0.3.1.3	Support Resource Trouble Management

M3400ID	Function.Name	eTOM Process	Process.Name
6.3.2	Verification of parameters and connectivity function set		
		1.0.3.1.5	Manage Resource Inventory
6.3.3	Network fault localization function set		
		1.A.3.3.1	Survey & Analyze 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 & Analyze Resource Trouble
		1.A.3.3.2	Localize Resource Trouble
		1.A.3.3.5	Report Resource Trouble
6.3.5	Running of diagnostic function set		
		1.A.3.3.1	Survey & Analyze 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 process function set		
		1.0.3.1.3	Support Resource Trouble Management
		1.0.3.1.6	Manage Workforce
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

140 400ID	Formation Name	eTOM Process	Burney Marris
M3400ID	Function.Name	ID	Process.Name
		1545100	Manage Daniel (Including Oak Oasias)
		1.FAB.1.2.2	Manage Request (Including Self Service)
0.4.0			
6.4.3	Scheduling and dispatch administration of repair forces function set	4 4 0 0 4	T. J. O.M D T I .
	\	1.A.3.3.4	Track & Manage Resource Trouble
6.4.4	NE(s) fault correction function 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 function 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
		1.7 (2.0.0.0	report teledado Bala
		4 5 0 0 4	
		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

M3400ID	Function.Name	eTOM Process	Process.Name
6.5.1	Test point policy function set		
		1.0.3.1.3	Support Resource Trouble Management
6.5.10	Test access path management 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
6.5.2	Service test function set		
		1.A.3.3.1	Survey & Analyze 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 & Analyze Resource Trouble
		1.A.3.3.5	Report Resource Trouble
		1.F.3.2.3	Test Resource
6.5.4	Selection of test suite function set		
		1.A.3.3.1	Survey & Analyze Resource Trouble
		1.A.3.3.5	Report Resource Trouble
		1.F.3.2.3	Test Resource
6.5.5	Test access network control and recovery function set		
		1.A.3.3.1	Survey & Analyze 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 function set		
		1.F.3.2.3	Test Resource

MO 4001D	E	eTOM Process	Barrer Marre
M3400ID	Function.Name	ID	Process.Name
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 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 function 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
		1.AB.3.5.2	Process Resource Data
		1.AB.3.5.3	Report Resource Data
6.6.3	Trouble report status change notification function set		
		1.A.1.6.2	Report Problem
6.6.4	Trouble information query function set		- April
0.0.1	Trouble information quary function out	1.A.1.6.3	Track and Manage Problem
6.6.5	Trouble ticket creation notification function set	13 1110.0	Tradit and Manage 1 105.0111
	The state of the s	1.A.1.6.2	Report Problem
6.6.6	Trouble ticket administration function set	13 110.2	
3.0.0		1.A.1.6.2	Report Problem
		1.A.1.6.3	Track and Manage Problem
		JI.A.T.b.3	ттаск апо мападе Ргоріеті

M3400ID	Function.Name	eTOM Process	Process.Name
		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 Management		
		1.E.1	Strategic & Enterprise Planning
		1.E.3	Enterprise Effectiveness Management
		1.E.6	Stakeholder & External Relations Management
		1.F	Fulfillment
		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 Engineering		
		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
		1.P.4.3	Supply Chain Development & Change Management
		1.S.2.1	Service Strategy & Planning

M3400ID	Function.Name	eTOM Process	Process.Name
		1.S.4.1	Supply Chain Strategy & Planning
7.1.1	Product line budget 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
7.1.10	Routing design function set		
		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 policy 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
		1.0.3.1.1	Enable Resource Provisioning
7.1.4	Infrastructure planning function set		
	·	1.0.3.1.5	Manage Resource Inventory
7.1.5	Management of planning and engineering process function set		
	<u> </u>	1.A.3.3	Resource Trouble Management
		1.E.1.3	Enterprise Architecture Management
7.1.6	Demand forecasting function set		
	<u> </u>	1.S.2.1	Service Strategy & Planning
7.1.7	Network infrastructure design function set		
	Ĭ	1.A.3.3	Resource Trouble Management
		1.AB.3.5	Resource Data Collection & Processing

M3400ID	Function.Name	eTOM Process	Process.Name
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 function set		
		1.A.3.3	Resource Trouble Management
		1.AB.3.5	Resource Data Collection & Processing
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
		1.1.4.2	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
		1.1.4.2	Supply Chain Capability Delivery
		1.P.4.3	Supply Chain Development & Change Management
7.2.10	Software administration function set		
		1.0.3.1.1	Enable Resource Provisioning
		1.0.3.1.5	Manage Resource Inventory
7.2.11	NE installation administration function set		
		1.0.3.1.1	Enable Resource Provisioning
		1.0.3.1.5	Manage Resource Inventory
7.2.2	Management of installation function set		

M3400ID	Function.Name	eTOM Process	Process.Name
		1.AB.3.5	Resource Data Collection & Processing
		1.1.2.2	Service Capability Delivery
		1.OFAB.3	Resource Management & Operations
7.2.3	Contracting function set		
		1.AB.3.5	Resource Data Collection & Processing
		1.1.4.2	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 with customer function set		
		1.F.2.2.1	Design Solution
		1.F.2.2.2	Allocate Specific Resources to Services
		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 administration function set		
		1.AB.3.5	Resource Data Collection & Processing
		1.1.2.2	Service Capability Delivery
		1.OFAB.3	Resource Management & Operations
7.2.7	Material management function 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 administration of installation force function set		
		1.0.3.1.6	Manage Workforce

M3400ID	Function.Name	eTOM Process	Process.Name
7.2.9	Installation completion reporting function set		
	, , , , , , , , , , , , , , , , , , ,	1.F.3.2.4	Collect, Update & Report Resource Configuration Data
7.3	Service Planning and Negotiation	-	<u> </u>
	e e e e e e e e e e e e e e e e e e e	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
		1.1.1.2	Product & Offer Portfolio Planning
		1.1.1.4	Marketing Capability Delivery
		1.1.2.2	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
7.3.1	Service planning function set		
		1.S.1.1	Market Strategy & Policy
		1.S.2.1	Service Strategy & Planning
7.3.10	Solution proposal function set		
		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		
		1.0.2.1.1	Manage Service Inventory

M3400ID	Function.Name	eTOM Process	Process.Name
		1.S.2.1	Service Strategy & Planning
7.3.3	Marketing function set		
		1.l.1.4	Marketing Capability Delivery
		1.P.1.6	Sales Development
		1.S.1.1	Market Strategy & Policy
7.3.4	Management of sales process function set		
		1.0.1.1.1	Support Customer Interface Management
		1.0.1.1.6	Support Marketing Fulfillment
		1.0.1.1.7	Support Selling
		1.0.1.1.9	Manage Campaign
		1.P.1.6	Sales Development
7.3.5	External relations (legal, stockholders, regulators, public relations) function set		
		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
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.F.2.2.1	Design Solution
		1.I.2.2	Service Capability Delivery
		1.S.2.1	Service Strategy & Planning
7.3.9	Customer service feature definition function set		
		1.0.2.1.1	Manage Service Inventory

M3400ID	Function.Name	eTOM Process	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 function set		
		1.AB.3.5	Resource Data Collection & Processing
		1.F.3.2.1	Allocate & Deliver Resource
		1.0.3.1.1	Enable Resource Provisioning
7.4.10	Access circuit design function set		
		1.F.3.2.1	Allocate & Deliver Resource
7.4.11	Leased circuit design function set		
		1.F.3.2.1	Allocate & Deliver Resource
7.4.12	Facility design function set		
		1.F.3.2.1	Allocate & Deliver Resource
7.4.13	Manage pending network changes function set		
7.4.10	ivianage 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 management function set		
	-	1.F.3.2.2	Configure & Activate Resource
7.4.15	Circuit inventory notification function set		
		1.0.3.1.5	Manage Resource Inventory
7.4.16	Circuit inventory query function set		
		1.0.3.1.5	Manage Resource Inventory
7.4.17	NE(s) configuration function set		
		1.F.3.2.1	Allocate & Deliver Resource

M3400ID	Function.Name	eTOM Process	Process.Name
7.4.18	NE(s) administration function set		
		1.0.3.1.1	Enable Resource Provisioning
7.4.19	NE(s) database management function set		
		1.F.3.2.1	Allocate & Deliver Resource
		1.F.3.2.2	Configure & Activate Resource
		1.0.3.1.5	Manage Resource Inventory
7.4.2	Material management policy function set		
		1.0.3.1.5	Manage Resource Inventory
7.4.20	Assignable inventory management function set		
		1.A.3.4.1	Monitor Resource Performance
		1.A.3.4.2	Analyze 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 and assignment function 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 feature(s) function set		
		1.F.3.2.2	Configure & Activate Resource
7.4.24	NE(s) inventory notification function set		
		1.0.3.1.5	Manage Resource Inventory
7.4.25	NE(s) inventory query function 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 cross-connects in NEs function set		
		1.0.3.1.5	Manage Resource Inventory
7.4.28	Access to service features in NEs function set		

M3400ID	Function.Name	eTOM Process	Process.Name
		1.0.2.1.1	Manage Service Inventory
		1.0.3.1.5	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 determination function set		
		1.F.2.2.2	Allocate Specific Resources to Services
7.4.5	Leased circuit route determination function set		
		1.F.3.2.1	Allocate & Deliver Resource
7.4.6	Request for service function 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 function set		
		1.F.2.2.3	Track & Manage Work Orders
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 design function set		
7.1.0	interoxenange endate doorgin function occ	1.F.3.2.1	Allocate & Deliver Resource
7.5	Status and control		
7.0	otata and control	1.A.2.3	Service Problem Management
		1.FAB.4.6	S/P Interface Management
		1.0.2.1	SM&O Support & Readiness
		1.S.3.1	Resource Strategy & Planning
7.5.1	Priority service policy function set		
	A service benefit that the service ser	1.0.2.1.4	Enable Service Quality Management

M3400ID	Function.Name	eTOM Process	Process.Name
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 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
7.5.4	Leased circuit network status 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 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
7.5.6	NE(s) status and control 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
7.5.7	Access to state information in NEs function set		
		1.F.3.2.4	Collect, Update & Report Resource Configuration Data
		1.0.3.1.5	Manage Resource Inventory
7.5.8	Notification of state changes by NEs function set		
		1.F.3.2.4	Collect, Update & Report Resource Configuration Data
		1.0.3.1.5	Manage Resource Inventory
8	Accounting Management		
		1.A.3.4	Resource Performance Management

M3400ID	Function.Name	eTOM Process	Process.Name
		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 Develoloment & Management
8.1.1	Planning of the usage measurement process function set		
		1.AB.3.5.4	Audit Resource Usage Data
		1.0.1.1.4	Support Billing & Collections
8.1.10	Measurement rules identification function set		
		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 function set		
		1.AB.3.5.3	Report Resource Data
8.1.13	Usage long-term storage function set		

M3400ID	Function.Name	eTOM Process	Process.Name
		1.AB.3.5.3	Report Resource Data
8.1.14	Usage accumulation function 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 data collection function set		
		1.AB.3.5.2	Process Resource Data
8.1.17	Usage generation function set		
		1.0.3.1.4	Enable Resource Data Collection & Processing
8.1.2	Management of the usage measurement process 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 set		
		1.AB.3.5.3	Report Resource Data
		1.B.2.5.3	Analyze Usage Records
8.1.4	Service usage correlation function set		
		1.AB.3.5.2	Process Resource Data
		1.AB.3.5.3	Report Resource Data
8.1.5	Service usage validation function set		
		1.AB.3.5.2	Process Resource Data
		1.B.2.5.1	Mediate Usage Records
8.1.6	Usage distribution function set		
		1.AB.3.5.3	Report Resource Data
8.1.7	Usage surveillance function set		
		1.AB.3.5.2	Process Resource Data
		1.AB.3.5.4	Audit Resource Usage Data
8.1.8	Usage error correction function set		
		1.AB.3.5.2	Process Resource Data
8.1.9	Usage testing function set		

M3400ID	Function.Name	eTOM Process	Process.Name
		1.AB.3.5.4	Audit Resource Usage Data
8.2	Tariffing/pricing		
		1.B.1.8	Billing & Collections Management
		1.B.2.5	Service & Specific Instance Rating
		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
		1.0.1.1	CRM Support & Readiness
		1.0.4.1	S/PRM Operations Support & Readiness
		1.SIP.3	Resource Development & Management
8.2.1	Pricing strategy function set		
		1.0.1.1.4	Support Billing & Collections
8.2.2	Tariff and price administration function set		-
		1.E.6.4	Regulatory Management
		1.0.1.1.4	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 set		· ·
	, ,	1.0.4.1.4	Support S/P Settlements & Billing Management
8.2.5	Feature pricing function set		J
		1.I.1.2	Product & Offer Portfolio Planning
		1.1.1.3	Product & Offer Capability Delivery
		1.0.1.1.4	Support Billing & Collections
8.2.6	Provision of access to tariff/price information function set		
		1.0.1.1.1	Support Customer Interface Management
		1.0.1.1.5	Support Retention & Loyalty

M3400ID	Function.Name	eTOM Process	Process.Name
		ID	Process.name
8.2.7	Rating usage function set		
		1.B.2.5.2	Rate Usage Records
8.2.8	Totalling usage charges function 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
		1.0.3.1	Resource Data Collection & Processing
		1.SIP.3	Resource Development & Management
8.3.1	Planning of the billing process function set		•
	<u> </u>	1.B.1.8.4	Manage Customer Billing
		1.0.1.1.4	Support Billing & Collections
8.3.10	Taxation function set		
0.00		1.E.5.1	Financial Management
8.3.11	Human resources function set		
0.0.11	i idinari recourees idinatori 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

M3400ID	Function.Name	eTOM Process	Process.Name
8.3.12	Invoice assembly function set		. ressentante
		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 administration function set		
		1.B.1.8.5	Manage Collection
8.3.15	In-call service request 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.B.2.5.1	Mediate Usage Records
		1.B.2.5.2	Rate Usage Records
		1.B.2.5.3	Analyze Usage Records
8.3.16	Storage of invoice function 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 function 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)

M3400ID	Function.Name	eTOM Process	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
		1.0.1.1.4	Support Billing & Collections
8.3.20	Customer account administration function set		
		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 administration function set		
		1.B.1.8.5	Manage Collection
		1.0.2.1.1	Manage Service Inventory
8.3.3	General accounting operations 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 set		
		1.B.1.8.5	Manage Collection
		1.E.5.1	Financial Management
8.3.6	Accounts payable function set		Ĭ
		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 function set		
		1.E.7.1	HR Policies & Practices

M3400ID	Function.Name	eTOM Process	Process.Name
8.3.9	Pension administration function 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
		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
		1.1.2.2	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 set		

M3400ID	Function.Name	eTOM Process	Process.Name
		1.E.5.2	Asset Management
8.4.11	Tracking of liabilities function set		
		1.E.5.1	Financial Management
8.4.2	Auditing function set		
		1.E.2.4	Audit Management
8.4.3	Cash management function 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 function set		
		1.E.5.1	Financial Management
8.4.7	Financial reporting function set		
		1.E.6.3	Shareholder Relations Management
		1.E.6.4	Regulatory Management
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
		1.1.1.2	Product & Offer Portfolio Planning
		1.1.2.2	Service Capability Delivery
		1.OFAB.3	Resource Management & Operations
		1.P.2.3	Service Development & Retirement

M3400ID	Function.Name	eTOM Process	Process.Name
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 function 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 function set		
		1.E.2.2	Security Management
9.1.5	Security screening function set		
		1.F.1.5.2	Authorize Credit
9.2	Detection		
		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 Develoloment & Management
9.2.1	Investigation of changes in revenue patterns function set		
		1.E.2.3	Fraud Management
9.2.10	Support element security alarm reporting function set		

M3400ID	Function.Name	eTOM Process	Process.Name
WISHOOLD	i uncuon.Name	1.E.2.2	Security Management
		1.⊏.∠.∠	Security Management
		1.0.3.1.4	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 function set		
		1.E.2.2	Security Management
9.2.4	Customer (external user) profiling function set		
		1.E.2.3	Fraud Management
9.2.5	Customer usage pattern analysis 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 service function set		
		1.E.2.3	Fraud Management
		1.FAB.1.9.3	Analyze and Manage Customer Risk
9.2.7	Internal traffic and activity pattern analysis function set		
		1.0.3.1.2	Enable Resource Performance Management
		1.0.3.1.4	Enable Resource Data Collection & Processing
9.2.8	Network security alarm function set		
		1.E.2.2	Security Management
		1.0.3.1.4	Enable Resource Data Collection & Processing
9.2.9	Software intrusion audit function set		
		1.AB.3.5.4	Audit Resource Usage Data
		1.E.2.2	Security Management

M3400ID	Function.Name	eTOM Process	Process.Name
9.3	Containment and Recovery	ID IID	FTOCESS.Name
9.3	Containment and Recovery	1.E.2.1	Business Continuity Management
		1.E.2.1	Security Management
		1.E.6.5	Legal Management
		1.S.3.1	Resource Strategy & Planning
9.3.1	Protected storage of business data function set	1.0.0.1	resource Strategy & Fiarming
9.5.1	i Totected storage of business data function set	1.E.2.1	Business Continuity Management
9.3.10	Network intrusion recovery function set	1.L.2.1	Dusiness Continuity Management
9.3.10	Network intrusion recovery function set	1.F.3.2.2	Configure & Activate Resource
9.3.11	Administration of network revocation list function set	1.F.3.Z.Z	Cornigure & Activate Resource
9.3.11	Administration of network revocation list function set	1.E.2.2	Security Management
9.3.12	Protected storage of network configuration data function set	1.E.2.2	Security Management
9.5.12	Protected storage of fletwork configuration data function set	1.E.2.1	Business Continuity Management
0.2.12	Covering internal connections function set	1.L.2.1	Dusiness Continuity Management
9.3.13	Severing internal connections function set	1.F.3.2.2	Configure 9 Activate Decourse
0.0.44	NIE ( Nich and a second of configuration)	1.F.3.2.2	Configure & Activate Resource
9.3.14	NE(s) intrusion recovery function set	45000	O S O A S O A S
0.0.45	Administration of NID(a) associated that for all and a	1.F.3.2.2	Configure & Activate Resource
9.3.15	Administration of NE(s) revocation list function set	4.500	Conside Management
0.0.40	Data to take a section for the first term	1.E.2.2	Security Management
9.3.16	Protected storage of NE(s) configuration data function set	4 5 0 4	Business Continuity Management
		1.E.2.1	Business Continuity Management
9.3.2	Exception report action function 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 function set		
		1.E.2.2	Security Management
		1.E.6.5	Legal Management

M3400ID	Function.Name	eTOM Process	Process.Name
		4 5 2 2 4	Collect Hadata & Danat Danauraa Configuration Data
		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 revocation list function set		
		1.E.2.2	Security Management
9.3.8	Protected storage of customer data function 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		<u> </u>
		1.B.2.5	Service & Specific Instance Rating
		1.E.2.1	Business Continuity Management
		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 set		
		1.E.2.2	Security Management
9.4.10	Administration of external encryption and keys function set		,
		1.E.2.2	Security Management
9.4.11	Administration of external security protocols function set		
		1.E.2.2	Security Management
9.4.12	Customer audit trail function set		
		1.B.2.5.3	Analyze Usage Records

M3400ID	Function.Name	eTOM Process	Process.Name
		1.E.2.2	Security Management
		1.E.2.4	Audit Management
9.4.13	Customer security alarm management function set		
		1.E.2.2	Security Management
		1.0.3.1.4	Enable Resource Data Collection & Processing
9.4.14	Testing of audit trail mechanism function set		
		1.E.2.4	Audit Management
9.4.15	Administration of internal authentication function set		
		1.E.2.2	Security Management
9.4.16	Administration of internal access control function set		
		1.E.2.2	Security Management
9.4.17	Administration of internal certification function set		
		1.E.2.2	Security Management
9.4.18	Administration of internal encryption and keys function set		
		1.E.2.2	Security Management
9.4.19	Network audit trail management 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
9.4.2	Disaster recovery planning function set		
	,, ,	1.E.2.1	Business Continuity Management
9.4.20	Network security alarm management function set		
		1.E.2.2	Security Management
		1.0.3.1.4	Enable Resource Data Collection & Processing
9.4.21	NE(s) audit trail management 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

MO 400ID	E Air No	eTOM Process	Barrer Name
M3400ID	Function.Name	ID	Process.Name
9.4.22	NE(s) security alarm management function set		
		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 set		
		1.E.2.2	Security Management
9.4.3	Manage guards function set		
		1.E.2.2	Security Management
9.4.4	Audit trail analysis function set		
		1.E.2.2	Security Management
		1.E.2.4	Audit Management
9.4.5	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 data integrity function set		
		1.E.2.2	Security Management
9.4.7	Administration of external authentication function set		
		1.E.2.2	Security Management
9.4.8	Administration of external access control function set		
		1.E.2.2	Security Management
9.4.9	Administration of external certification function set		
		1.E.2.2	Security Management

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Enhanced Telecom Operations Map® Addendum T - eTOM to M.3400 Mapping Application Note