FUNCTIONS AND STRUCTURE OF THE ADMINISTRATIVE MANAGEMENT SYSTEM OF THE NETWORK.

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Abstract: *This article is a modern SDH multiplexer data processing, as a communication tool filled with some intelligent tools, and can also be seen reliable telecommunications tasks to perform customized computer _ The administrative method of management (as an absolute liberalization of the market) is fast o 'change, means of telecommunication. information about intellectualization and automation of transition processes is given.*

Key words: *Telecommunications, SDH multiplexer, TMF, TOM model.*

Telecommunications fundamental changes in the world from the head is holding This is news not _of the world many developed countries telecommunication business of keeping new legal and economic to the forms of transition telecommunications infrastructures telling which cannot be and control by doing which cannot be to growth take came _ This is growth good quality to be with together weighty also : with fast tempos telecommunication of resources common the number increased is going and that's it with together , often new telecommunication technologies appear is happening and is developing .

Being past (hundred given) changes because of the word " telecommunication ". meaning a little will change . Today's grow up going technology quality , modern stage own into modern to society multimedia information save , re work and to replace provider long technical of chains one as traditional telecommunication structure enter " Informational technologies " are shown . Above shown of the chain very high level automation evaluation necessary _ Current in the day telecommunication and computer devices a lot cases praise worthy are concepts . For example , a modern SDH multiplexer information again working , some intellectual tools with is filled contact tool as and sure telecommunication tasks to perform adapted computer see also as can _ Management administrative method (telecommunication of the market absolute liberalization as) . fast change , telecommunication of means intellectualization and of

automation jumper processes , telecommunication providers life activities one in the plane holding to stand directed to the authorities loaded tasks do it that he doesn't get it take came _ First next , this telecommunications in the field standardization according to international organs and " national telecommunication the so -called " rectifier ". to organs applies . He or this telecommunications in the markets only legal questions organize to reach one to the edge push , telecommunication resources management system and standardization methods to the issue our attention let's look Officially , telecommunications in management standardization issues with , about five different organizations is engaged in . Of them three : ITU, ETSI and ANSI institutes separately to put can _ Official from organizations except systems to build technologies and principles alternative regulatory document and agreements work exit with engaged in again many non-profit union and industry consortia there is TM Forum (TeleManagement Forum) . alternative systems to the line to add can _ of the idea of TMN development for TM Forum (TMF) is large TMF is contributing . of TMF new industry standards business of the process current to do directed . Telemanagement Forum or TMF _ main task network resources to spread and telecommunication services management efficiency and quality increase in order to be practical solutions acceptance to do and strategic leadership done increase , calculated global non-state and non-profit is an organization .

TMF activity the following research and work exits according to distributed :
- Business processes modeling and automation :
- The next generation network technologies management ;
- Hardware systems integration and practical current to be done ;
- Services management ;
- "customer-care" system on the web base organize to do
- Electronic commerce management ;
- Service consumers with together actions regulation .

That's it to emphasize TMF telecommunication _ management issues with alternative organizations involved between , four main reason according to leader place occupies :

- TMF is different something organization a member to be possible has been non-profit is an organization ;

- TMF documents work on the way out of TMF all of members directly with the participation of , and wide public with together done is increased ;

- of TMF documents telecommunication of providers directly practical from needs come came out without work will be released and is confirmed ;

- TMF own in the activity rational respectively , another organizations by processed document and from technologies uses _ Organization the rest all activities determiner of TMF main practical document is Telecom Operations Map (TOM) . (telecommunication operations scheme).

Partially TMForum the following issues does :

- Business process within operational manuals work output ;

- A business from surgery to another the need to " send " information about agreement acceptance to do

- Operation support system together movement provide in order to be realistic system conditions identification ;

- The market development and real products integration and telecommunication operational processes automation work exit _

TMForum members being telecommunication industry hardware for and program supply delivered providers , network operators and service providers is considered Operation supply system delivered givers and that 's what consumers do together movement thanks to TMF products (TM Forum companies-members) and of them specification (self feature) paper in the form of to be take going pragmatic to the results to reach is worthy . TM-Forum activities - CPO operations supply system new generation (System of Support Operation, OSS) and DT(Software, SW) program supply OSS is new own generation (New Generation System of Support Operations, NGOSS) . into takes _ The model shown in Section 4 , TMN is conceptual part of the rest continue to carry out demonstration does and that's it with together , TMN develops . Work continue maintenance , network elements management stages (" network elements management processes "), network management phase (" network management processes ") and service show management stage (service show and formation processes " and subscribers with work processes ") . without , many phased abstraction to manage present from doing consists of Service show management stage separate processes between the difference reflection makes , they of customers separately appeal as a result and something service or services to the group written customers to the group related processes as a result to action will come From this except , customers with directly right in communication service show stage specialization and services rotate and apply stage this processes integration and automation with always to engage in strictly necessity is emphasized . Given in the model business management stage separately content not shown as but _ this to stage belongs to most of the time processes , of the model another stages shown in processes there is

This is it of the model In TMN regulated common approach main the difference is from the following consists of ;

TOM-model, in the provider being real processes that take place with good in relation to be processes collection as , har one stage manager present reached without , only function or functional the collection announcement did not without , to management process the approach demonstration does ;

TOM work on exit , from TMN different as " top-down " way is used (ie network management technological to the composition of the operator business from needs).

In TMN and management _ seeing output , " bottom-up " principle according to take will go , that is first network elements stage managed functions and technologies regulated , then network stage and etc. _

In the TOM- model separately stage as , telecommunications of the provider modern the work specification pointer with subscribers (customers) . together work stage separated ;

The model is its own visuality , simple and big detailing with thank you deserve it _ and it is presented by TMN reach methods much difference shows .

TOM's framed model , obviously organization , technology or services to the content depends not _ And not only that current conditions , perhaps next conditions definition for use can _ On the network operations Management is difficult a lot measured space harvest does _ GB document 910, own processes work outgoing and current doer sure service provider as , filling need was , only common Rama model determiner is a document . Each _ services provider own business and strategies to the goal according to , own processes defines and will change .

TOM - business - process structure the place determines and business process others handler objects identifies . Each _ services provider , TOM-model identifier processes structure analysis to do and they are by used business rule and policy entered without , har one the process how to form from (services of the provider himself) understanding reach necessary _

TOM- model main application from that consists of telecommunications within services show of processes intermediate integration and automation done increase for common structure present reach enough _ These services provider by internal purposes and external in action use can _ He delivered givers by product work producers identification for use can _ TOM - own processor architecture to see and automation requirements and their interfaces to determine own into received , own processes design and or again design opportunity provider , services provider for initial is a point .

Current at the time some Russian contact operators , business processes automation problems How important and actuality determined without process movement formation help giving , business of keeping there is models to see , (engineering done BPR) help to increase giving technological cards work exit are starting BPR to companies old thinking methods give up pass (processes , business rules , work , technology and others in application) and functional , and organizational restrictions from the border exit enable gives _ Technological cards work exit is _ of management automated system construction and current to be done directed the first is a stage .

Systematic approach point of view in terms of customers service in showing necessary has been all processes automation and reinjirinining done increase more correct will be was , but provider and operators ASU software of the product complete

ready options buy to get ready they are not That's why in this TOM model frame shown all processes of automation one different priority have not _ Undoubtedly , automation some stage all in processes is necessary , but this of processes one part in the market competitiveness supply for critical is considered That's why for automation the following in the circle available :

- Main in processes often repetition when observed ;
- Reaction to the speed high requirements in existence ;
- High when quality is required (accuracy and completeness).

Telecommunications field for of business processes TOM model with frame .

TOM service in summa show from providers of use main directions to the following stands for :

- Internal and external discussions correction ;
- Business processes manage for work exit and reengineering ;
- Needs identification , requirements work output ;
- Interface and information models requirements work output ;
- Interfaces automation about partners with agreements conduct ;
- TOM-model system delivered givers place to determine

Only TOM- directions some the key providers used and some of them the following purposes used :

- Services provider customers needs Services provider customers needs according to coming product and solutions delivery , and work exit done that they are increasing better understand _

- Interfaces identification ;
- Customers compatibility signs to determine
- In one language customers with communication to do

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Part 2

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