Model and Method of Intellectualization of the Processes of Providing Resources and Services of the Multiservice Network

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ABSTRACT

In this article, many factors are important in the organization of multiservice networks such as transport technology, services, service management, access to information resources, etc. Issues such as aspects of the implementation of similar factors on a network scale and the improvement of the network using modern technologies are one of the current issues. The organization and application of multiservice networks requires the solution of a number of issues, that is, it entails the solution of such issues as improving the efficiency of operation of multiservice networks, managing processes in them, and ensuring the durability of the system.

Keywords:	multiservice, networks, NGN, MSN, network multiservis

Introduction

Show rates in the modern world the rapid growth of the telecommunication industry continues multiservislar the development of the market, the introduction of new communication and information technologies, paid particular attention to place them closer to each other. USA, UK, Netherlands, Germany, Sweden, France, South Korea, India, Russia and other countries in developed countries such as ngn (next generation network or communication network multiservis – MS) many complex individual in the transition from the device number (the kontroller, gateways, servers) is carried out [1-4]. The switching node functionality should work together to complete several such devices, therefore their availability is equal to the product of factor and reliability in the results in the result reliability is relatively low. In this context, the reliability of the communication network for the study of the index multiservisli paid special attention to development of models and algorithms [5-9].

The main part

Development of the information society in the republic of uzbekistan, the population of the edge regions of the known, which is enough to show the quality of service which has a data transfer speed broadband internet network utilization is given special attention. servicing many different types of users. "Action strategy for the further development of the republic of Uzbekistan in 2017-2021 five priority"at "...free

to use the internet for the ground to create a bound on the population of the republic tasks have been identified with one another. The implementation of these tasks, in particular, on the basis of the theory of bundles noravshan MSN method that allows you to analyze the reliability and algorithm development, timely service that lets you develop an analytical model that depends on the probability of the analysis. the work load is the important task of the survey on the availability of the network. This dissertation research in the republic of uzbekistan, president of the 2018-19 year-in February "on measures for further improvement of the sector of information technologies and communications"on UP-5349-in the resolution of the president of the republic of uzbekistan in August 2017. 29 PP-3245-number "information and communication technologies in the field of project management on measures for further improvement of the system"7 of the cabinet of ministers of the republic of uzbekistan the year 2018 resolution 185 in march, "in communication, information and telecommunication services to enhance the quality of measures on", The president of the republic of uzbekistan, 2017-7 year-in February "strategies of action for the further development of the republic of uzbekistan"on UP-4947-number in other legal documents and decisions adopted in this area . to a certain extent, serves to fulfill the tasks set, Analysis of indicators of reliability of assessment methods and tools of network resources and service Multiservis [6-11].

Multiservis network services to the users of the specified service are provided with their character of classification associated to certain klassifikatsion can get the job done. Distribution and important services can be arranged as well as interactive in turn, each one of them is consists of multiple services. MS - NGN network is built on the basis of the concept, unlimited scale of services to be provided, the category provides. Ms multiprotokol in the structure is called the transport network, this network is designed to ensure the transfer of information using a variety of different transmission protocols [12-15].

MSTquyidagi in the provision of services has the potential to:
- last transfer files among the devices;
- klient - server architecture to ensure the performance of applications;
- the organization's network build a single phone;
- the use of the information infrastructure to reduce costs;
- to increase the productivity of the labour of servants;
- to increase network reliability;
- city and long-distance phone conversation reduce costs;
- arenda to reduce the cost of communication channels;
- to provide additional services;
- operator allows you to increase raqabatbardoshligini;
- the management of resources and excess going to ensure the survival of the network;
- downloaded the optimal organization of network resources (most moves download, navbatlar traffic management quality of the move);
- automated parameters to allocate resources to users and user traffic nazoratlash;
- marshrutlash single network traffic and maintaining a database;
- give wide opportunities to the effects of the network operator, network resource management.

In this regard, and the main trunk and are an integral part of the ms's network access equipment from the network (transport network) was founded telecommunication component holds a special place. Channels and gateways in the network, and the switching marshrutlash centers, as well as the emergence of network operators also failures and failures in the resource management system, all the users (customers) will lead to the violation of the normal working chamber, this will lead to a big loss. different services of the company. The continuous improvement of ms is, the more new types of services are being developed and are being introduced, and this in turn leads to

the increase of the transport layer of the network performance and capacity requirements. Such a network is to put the main requirements are: the node has a high reliability; traffic management functions support; the good full-scale marketing [40]. At the same time, the telecommunication network reliability in the first place because ms is heterogeneous traffic, including delays should ensure the transfer of high quality traffic that is responsive to .

The quality of the performance requirements to be growing by ms users, as well as the escalation of parameters that characterize the quality of service specialists to competition between network operators (service quality, Qosim) have been forced to give more attention). Qosa is one of the most important factors influencing reliability, so the work of the affairs of the chamber reliable ms user requirements survey is one of the main indicators that characterize the quality of services. Backup and recovery of the method used to increase the reliability of the telecommunication network clearly shows advantages and disadvantages: the advantage of the method of communication of reservations fast recovery in russia, while additional, sometimes very important is that the ability to conduct needs. The advantage of the method recovery - transfer better use of the communication network, the russia connection may require more time for recovery, in addition, there is a risk of an unstable network, especially in the often self- emergency. Restore the connections or services to the user and the excess method provides much needed level. Telecommunication services in the article analysis of the market based on service availability 99,9 percent of expect at least 50 percent of the user from the service, in exchange for 1 minute cause loss of information about the financial losses as a result of the lack of communication it provides. approximately 110 000 dollars.Therefore, you need to obtain the coefficient accessibility 0,999999 business customers, this annual time of such work to stay on to the sixth grade or the accessibility minutes 0,53 (1 table)

Table 1. System training classes

T/r	system type, will	be unattainable (min/year)	the availability of	willingness class
1.	It unattended	50 000	to 90% of	1
2.	service was	5000	99%	2
3.	well stored	500	99,9%	3
4.	Safe	Fifty	99,99%	4
5.	High accessibility	5	99,999%	5
6.	A very high preparation	of 0.5	99,9999%	6
7.	Ultra high availability	05	99,99999%	7

The information in the table based on the high level of accessibility by the operator came to the conclusion that requires high costs. To affect the price of this service - users with limited budget you will have a price level that suits them. Conclude, the consumer depending on the requirements of the accessibility of factors, containing the service of the different options is a plus elastic (flexible) access method should be introduced. In addition, financial losses and failures kg compared to the costs of ensuring the availability mode, the most acceptable from the point of view of the consumer, you can find the value of Kg.

Infokommunikatsiya dedicated to the work of studying the economic aspects of network reliability is worthy of note. They are made on the optimum economic criteria to determine the reliability of the element in ms, this is depending on the total costs of a reliable element of the ms or ms depending on the minimum amount and a maximum of lost the safe investment is profitability. the elements. Multiservis network resources and services tadqim the function selection on the basis of the analysis of indicators reliable ms

The above conclusions of the work in this dissertation the aim to develop models and methods for reliability assessment of the network and the ms, and their research and analysis of the process of a systematic approach that enables us to take into account that some would go to apply, bring it up. the transmission channel of information and communication network system diseases arising as a result of the restoration. Reliable interaction in the process of designing the valuation model to determine the level of reliability of the msn network, as well as the introduction of various equipment in the network and the next will allow you to avoid mistakes at work. As mentioned above, network infokommunikatsiya a complex technical system, it also means of communication, it is also necessary for the provision of high quality services to the users of the network maintenance and function in the performance of information processing and management system to make decisions that include. Many random situations can occur in the process of work, and they are as follows: separate branches (channels), communication centers, such work remain; a spectrum of communication or multiple downloads have increased dramatically; the footprint of your subscriber and of the network elements; change the source connection of new load, in particular the performance of unreliable elements and others. The average time between failures of the requirements for the reliability of the equipment ms average recovery time, the accessibility factor, with the term of the service description. Ms is characterized by two aspects of reliability.

When there are many connected topologiya, reliable operation of the network switching device is important. The reliability of the entire network is regarded as a stable part and a general ms in case) stay such work, b) durability, v) stability and d) include durability properties. Properly designed and built ensures high reliability of the network during the operation of the network, NGN and ultimately reduce operating costs. It should be noted that, with the development of the network has increased the share of initial capital costs compared to operating expenses and therefore increase the reliability of the network components and targeted planning and implementation of measures to the analysis of very serious issues that need to pay attention. during their activities. Ms is characterized by its internal parameters features: transmission rate and protocol in the communication channel, the channel reliability of the features, the performance of the equipment (gateways, network key, marshrutizatorlar), flexible working the key and algorithm that have been others. The specific features of their structure determined by ms reliability. External effects (interference, noise, atmospheric effects, unauthorized access and other factors) Ms makes a direct impact on the internal parameters. The performance of the network in the process of implementation of the scientific-technical solution also makes a direct impact on the internal parameters of the network infokommunikatsiya Many parametrli Infokommunikatsiya complex network system is provided. Let's mutually influencing the next generation network, which we call n the lower block of the system (level of), let's imagine the system as is. Units n and m able to access the network. His or harmful effects to the terms of use of the network access device (interference, vibration, high temperature, humidity and others) to be provided with the beneficial effect of (physical access signals, to unravel the tasks you need, order management, and others) will be subjected to. reliable), its affect, and each trying a different type of access is designed for. The various results of the work his performances on msn (processed signal, solved tasks, orders completed, provided different

types of services and others) is taken and one function of each outgoing network (one the results of the work) provides a description of

Conclusion

Multiservis network services to the users of the specified service are provided with their character of classification associated to certain klassifikatsion can get the job done. Distribution and important services can be arranged as well as interactive in turn, each one of them is consists of multiple services.

Modern characterized by the following features MSN:

- the use of all types of packet transport network for the transmission of information technology;
- traditional (functional oriented) having a distributed architecture which is different from the use of the station phone switching systems;
- separate from the function of switching and transmission service support;
- the broadband connection to provide any user;
- perform operational management functions through the use of web technology.

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