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STRATEGIC APPROACHES TO INNOVATIVE TELECOMMUNICATION TECHNOLOGIES AND THE SCIENTIFIC - TECHNICAL ANALYSIS OF THE MANAGEMENT OF THE BASIC SYSTEMS OF MAGISTRAL DATA STREAMS OF THE DATA AND INFORMATIONS

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Abstract: In the given work it is investigated and анализировано strategy, approaches to innovative technologies in telecommunications and the scientific and technical analysis of management of the basic systems both the main treacle and information transfers.

Keywords: strategy, the practical approach, innovative, a highway, treacle, the channel, the forecast, the provider, a communications service provider.

Introduction

The main communication lines surround our planet literally, connecting continents and the countries. If as much as possible to simplify, the main network is arranged approximately as usual fibre-optical, bringing the Internet in apartments and houses. Here only its scales essentially it is more, and throughput — the greatest possible speed of data transmission, incommensurably above.

Highways is an infrastructural base for rendering of the broadest complex of a telecommunication service and the major component of telecommunication business. Kinds of the main lines a little, and on a way of a lining and construction they can be divided on land and underwater. In Russia prefer construction of land communication lines, rather than a lining of underwater cables is more often — so arrive in Europe and Asia is more often. [1]

Methods

The main providers are telecommunication companies which lay extensive files of networks and subsequently sell the services to regional Internet providers. The largest main providers who connect the countries worldwide, name providers of the first level are the largest international companies more often giving the networks in rent.

There are some the largest operators and the providers developing internal telecommunication networks. For example: («Uzbek Telekom» — more than 20 thousand in km of the main networks; «Uzmobile» , "Biline", from 14 thousand in km of highways; «UMS, BeeLine and others» — more than 10 thousand in km of highways;« Uztelekom »— about 7 thousand in km of highways. Easttelekom and others). Often to come up against a situation when we call in office of the regional provider or we write to a technical support chat, and the expert explains that the reason of problems with connection, and even at all Internet losses, in failure on a highway. What problems can arise on

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the main networks? More often failures on highways is not problems with the equipment, and cable breakages. It is enough reasons for that: for example, repairmen or builders have dug out a trench in a place where there passes the communication line, have damaged a cable, and all — failure. Because of it the main providers should create reserve channels that in case of an unforeseen situation the end user did not suffer. Though some companies does not enter yet into number of the main providers, but participates in this area as the interesting party or the subject. Shortly "operators" with support the Ministry of digital technologies will start realizations of own projects on building of the main communication line (ВОЛС) that inhabitants of remote settlements and villages have got access to the high-speed Internet. The main objective to provide the subscribers with the high-speed Internet and telecommunication services. Strategic management represents a complex of actions of acceptance and realization of decisions on transfer of strategic targets in system of the balanced indicators, clear to executors at level of operational management. Thus it is necessary to consider the contribution of indicators of activity to an estimation of level of achievement of strategic targets and realization of the program defining sequence of actions, based on comparison of available potential to possibilities and threats of an external environment [3,4,11-23]. Operational management consists in statement of short-term objectives and indicators according to the developed system of strategic management, the organization and management of current activity within the limits of strategic targets. The formed system of strategic management gives possibility to managers of managing subjects of sphere of telecommunication services to define strategic potential of the managing subject, priorities and dynamics of economic development, to make well-founded administrative decisions, to provide growth of levels of efficiency of use of resources of the enterprise, to supervise dynamics of change of influence of factors of environment, to carry out in practice strategic plans and programs.

Successful realization of strategy of long-term social and economic development in essential degree depends on its features purposes as strategy is the unique plan of action and the undertaken measures, integrating overall objectives of the managing subject. Thereupon it is important to notice and that realization of strategy by means of organizational-economic measures should be balanced with an economic and innovative condition of the external market environment, acting thus as the tool of effective and operative realization of strategic targets in the long-term period of development. Therefore the system of strategic management of the enterprises of sphere of telecommunication services in the conditions of competitive economy should consider outlined prospects in the market of telecommunication services. Thus it is difficult to clients to refuse services of a fixed-line telephony, new services of other operators possess the big possibilities, and clients address to those managing subjects at whom quality of given services dominates over the price. Such processes are now the most widespread for enterprise structures and national operators of the world economy. From a position of strategic management for effective functioning in the conditions of a competition new quality of managing, long-term development is required to the subject of managing of sphere of telecommunication services. Development of the enterprises of sphere of telecommunication services assumes the big efficiency, scales and a variety of activity. The given process is realized by creation of information system of the account of consumers or personnel development; by means of the strategic analysis of demand for services, orientation of divisions to the personified service; Thanks to expansion of geography of activity, development of strategy of protection of own market niche, realization of nonconventional schemes of finishing of service to the user. The strategic management which priority is the future functioning of the managing subject, is impossible without development, consecutive and purposeful process of change of properties of managing subjects of sphere of telecommunication services [2].

Taking into account network character of a telecommunication complex it is possible to assert that there is a uniform strategy of its development as strategic targets and complex problems are realized as a result of joint efforts of all operators. One of the primary goals of strategy of development of a telecommunication complex consists in construction of the national network providing growth of installation of telephones as on regions, and as a whole on a national economy. For this purpose

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strategy of development of sphere of telecommunication services should possess high level of the investment maintenance defining updating and modernization of a telecommunication network, introduction of technological and grocery innovations.

Together with it, in the course of realization of strategy of development of the telecommunication complex, allowing to eliminate high level of discrepancy in reception of incomes by various economic kinds of activity of a telecommunication complex, it is expedient to solve a problem of rationalization of structure of rendered types of service of telecommunication. So, for example, in industrially developed countries telecommunication subjects of managing receive the dominating volume of profit from local communication. The basic volume of profit received by the enterprises of a telecommunication complex of the developing countries, is necessary on an international telecommunication with a view of expansion of activity of operators of an international telecommunication and reduction of its volumes to level of industrially developed countries. Thus the basic priority in realization of strategy of telecommunication development in these countries there is an innovative updating and improvement of quality of services of national communication. Formation of system of strategic management by development of the telecommunication enterprises should include realization of concrete measures on providing of access to the communication facilities promoting dialogue and realization of enterprise activity. As one of conditions of increase of economic results of development of a complex of telecommunication services acts transpirations of the managements of activity of communications service by providers. Maintenance of a transparency of managerial process of subjects of managing of sphere of telecommunication servants is connected with social, economic and military-political value of telecommunication, its role in such branch components of national economy, as formation, public health services, wholesale and retail trade, the government and maintenance of military safety at level of regional economy and a national economy as a whole. [1,3,5,7,9,10-23]. In economy of Republic the role of information-communication techno-logy in maintenance of competitiveness of production and the manufacture organization has a progressive tendency. Development of information-communication technologies and information of activity of the enterprises of a complex of telecommunication services allow to use the automated control systems of manufacture, logistics, projects, the finance, quality, service and human resources of managing subjects.

Results of analyses

In summary must be to ascertain that TC and ICT networks are complex and global however thus about everything, it is necessary managements, experts and young specialists necessary spends below-mentioned volumes of technical works in a scientifically way and the practical bases:

Control and network diagnostics:

1. Definition of a problem of monitoring systems and management;
2. Control and diagnosing;
3. A technical condition of a communication network;
4. Diagnosing;

Estimation work ability of channels

1. Definition of conditions of working capacity of the channel
2. An estimation and definition of parameters and a traffic way
3. Control parameters and characteristics of communication channels
4. Measurement of likelihood characteristics and distortions of elements
5. The organization of control of a condition of communication channels
6. The organization of restriction of access to a network
7. Methods of a choice of the shortest ways
8. To analyze criteria of a choice of optimum ways

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9. An estimation of is likelihood-time characteristics.

10. Methods of measurement of loading and indicators of quality of service

11. Control of efficiency of an entrance stream. Restriction and normal share and destinations loadings.

12. Control and gathering of the office information in network data transmission.

To know the general scheme and models, modeling of networks (the Analysis of methods of modeling of the traffic, фрактальные properties of the traffic of modern communication networks, Conceptual model of a network, communication channels, a data link, traffic model, streams of calls, models of process of information interchange in DSDT, algorithms of routing in a network, classification of methods, routings, a choice of algorithm of routing

To know quality service.

1. Model of quality of service in the environment of B-ISDN; 2. Management methods the traffic and an overload: 3. Questions of forecasting of the traffic in highly-speed communication networks

Conclusion:

In conclusion must be to ascertain that TC and ICT networks are complex and global convergent network, however thus about everything, it is necessary managements, experts and young specialists necessary spends on top mentioned volumes of technical works in a scientifically way and the practical bases. In practice we met some problems in different reglamentations of exploitation.

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