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# EXTERNALLY MEASURED REACH ABILITY IN CYBERNETIC REMOTE SYSTEM

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## ABSTRACT

*A system supports cybernetic remote system is improved to allow users in one cybernetic remote system to communicate with users in another cybernetic remote system in the course of executing a predefined application, such as voice chat. This ability is accomplished dynamically by enabling a device that can communicate with the network elements that operate to normally prohibit inter-cybernetic remote system communication to through those system components to permit such communication, at least for purposes of some specific applications.*

**Key words:** Cybernetic, cybernetic remote system, wireless communication.

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## 1. INTRODUCTION

The proposed system relates to cybernetic remote system to provision of momentary access for predetermined applications across cybernetic remote system. It is exactly the major characteristic of virtual private network, which is not permitting two systems to intercommunicate unless they belong to same virtual private network; it is desirable to allow

systems to communicate without regard to virtual private network, one such application is voice chat.

## 2. RELATED WORK

Cybernetics is an interdisciplinary approach related to regulatory systems, mechanical, physical, biological, cognitive, and social systems. It is a feedback based approach and incorporates a circular relationship. The action produces some changes in the environment and that change is reflected back in the system change.

Cybernetics processes those functions that are circular in nature i.e alternate their actions from sensing to comparison and back to action. These functions are feedback based. Its main aim is to analyze systems that process information and how they react to information. It is based on black box testing concept. Concepts focused by cybernetics are learning, cognition, adaption, social control, communication etc [1],[2].

Cybernetic control is the most common type of control system. The main feature of cybernetic control is its automaticity in operation. For example a system operating with inputs is subjected to a process that transforms them into outputs. It is these kinds of systems that we wish to control. So, we need to monitor the system output. This is done by sensors that analyze one or more features of the output. These measurements are transmitted to the comparator that compares them with a set of predetermined standards. The difference between actual and standard is sent to the decision maker, which determines whether or not the difference is of sufficient size to deserve correction. If the difference is large enough to warrant action, a signal is sent to the effectors, which acts on the process or on the inputs to produce outputs that conform more closely to the standard. A cybernetic control system that acts to reduce deviations from standard is called a negative feedback loop. If the system output moves away from the standard in one direction, the control mechanism acts to move it in the opposite direction [3].

Wireless communication has the following components

- An input message
- An input transducer
- An input signal
- A transmitter
- A channel
- A receiver
- An output transducer
- The output message

There is a message source. The transmitter modifies the message source for efficient transmission. The channel acts as a medium through which the transmitter output is sent. The receiver again reprocesses the signal received from the channel. The output of the receiver is fed to the output transducer. The transmitters and the receivers are carefully designed to overcome the distortion and noise [4].

Based on the related work stated above, we propose a system that uses the technique of cybernetic remote system that allows the users to go for communication over a wireless network.

### 3. PROPOSED SYSTEM

A system supports cybernetic remote system is improved to allow users in one cybernetic remote system to communicate with users in another cybernetic remote system in the course of executing a predefined application, such as voice chat. This ability is accomplished dynamically by enabling a device that can communicate with the network elements that operate to normally prohibit inter- cybernetic remote system communication to through those system components to permit such communication, at least for purposes of some specific applications such as voice chat. In case cybernetic remote system supports cybernetic remote system and in case of preferred application being voice chat, the devices involved may be a combination of router and call control component and other associated network components.

#### Diagrammatic Approach to the Proposed System

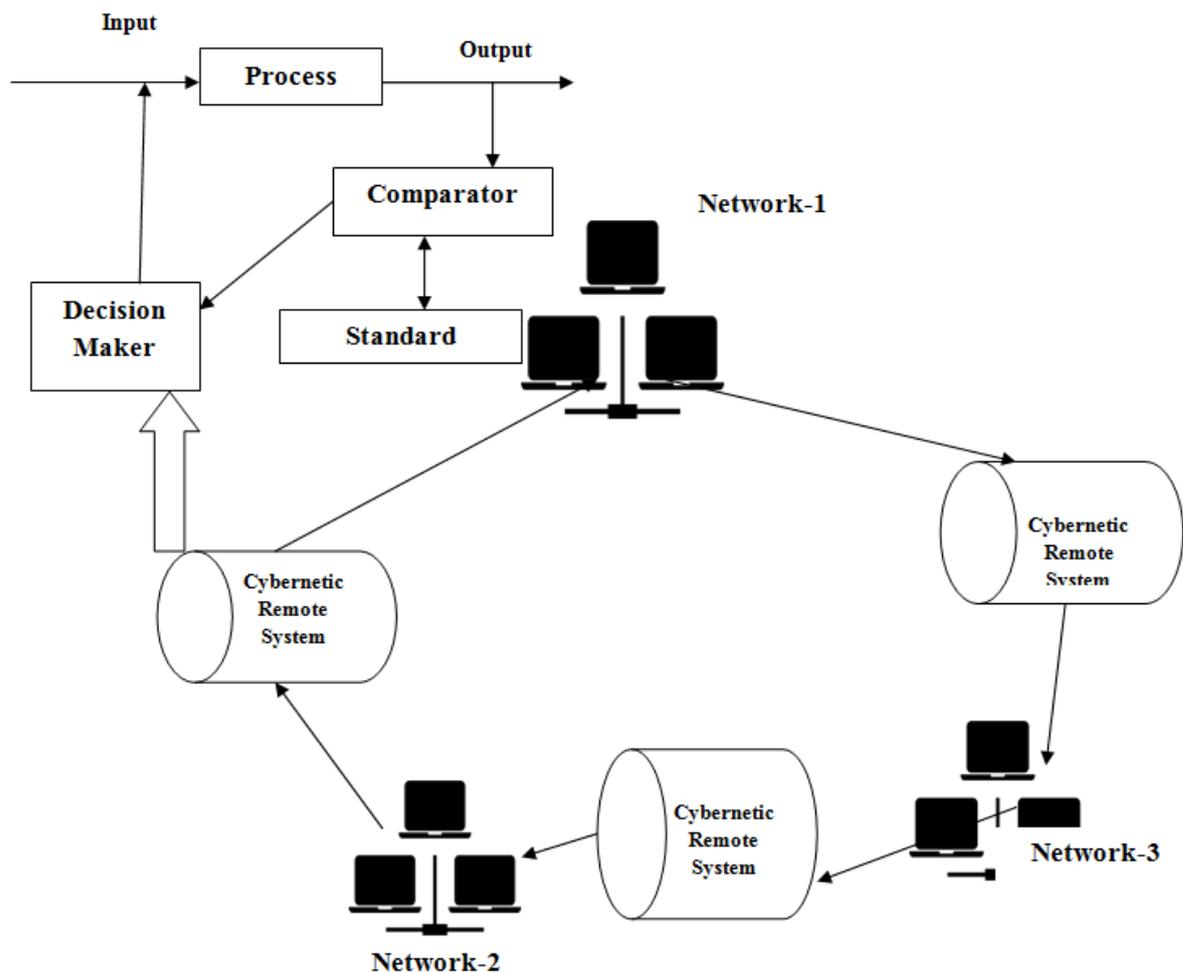


Figure 1 Diagrammatic Approach to the Proposed System

### 4. CONCLUSIONS

Our proposed allows for communication over a wireless network by using the technique of remote cybernetic system. The users can chat with each other by using emails and voice chat. The remote cybernetic network has components like sensors that analyze one or more features of the output. These measurements are transmitted to the comparator that compares them with a set of predetermined standards. The difference between actual and standard is sent to the decision maker, which determines whether or not the difference is of sufficient size to deserve

correction. If the difference is large enough to warrant action, a signal is sent to the effectors, which acts on the process or on the inputs to produce outputs that conform more closely to the standard. A cybernetic control system that acts to reduce deviations from standard is called a negative feedback loop. If the system output moves away from the standard in one direction, the control mechanism acts to move it in the opposite direction [3].

The proposed system allows the remote cybernetic system to communicate with network elements like router. After authenticating, the cybernetic system forwards the input to the other user. The proposed system is highly robust and achieves high degree of scalability.

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