**SOFTWARE REQUIREMENTS DATA**

**FOR**

**ETHERNET BASED COMMUNICATION BETWEEN TWO COMPUTERS**

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| CUSTOMER |  | |
| PROJECT | ETHERNET BASED COMMUNICATION BETWEEN TWO COMPUTERS | |
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**REVISION HISTORY**

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3. **INTRODUCTION**
   1. **Purpose**

This is the Standard “Software Requirement Data” document. This document establishes the software requirement data for the “Ethernet Based Communication(EBC) Between Two Computers”. This document brings out the requirements which shall be satisfied by EBC between two computers and which shall form basic for test document to check whether the software design meets all the software requirements.This forms the baseline for the software design and implementation of EBC between two computers. The software shall be validated against the requirements specified in this document.

* 1. **Scope**

This document brings out the functional requirements of EBC between two computers.

* 1. **Abbreviations and Acronyms**

|  |  |
| --- | --- |
| EBC | Ethernet based communication |
| IV & V | Independent verification and validation |
|  |  |

1. **OVERALL DESCRIPTION**

* 1. **Project perspective**

The following diagram shows the overview of EBC between two computers.

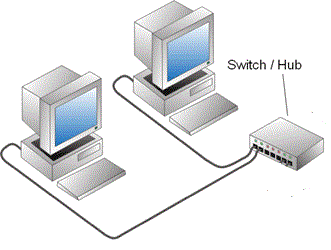


Figure : Ethernet based communication between two computers

The fundamental requirement of the project is to make an communication between two computers by using the Ethernet cable connected between them. Once the connection has been established we should send message/data to and receive data/message from both the computers.

* 1. **User interface**

User has to interact with console window to send and receive the data via Ethernet cable.

* 1. **Communication interface**

Ethernet cable should be used for the communication

* 1. **Software Requirements**

The software should able to transmit a data regardless of length of the data, and the software should able to handle the possible exceptions may occur while communicating.

* 1. **Assumptions**

Platform: Python IDE

Interpreter: Python 3.8.2

modules: functions of socket python module used.

Language used for the development is the Python.

* 1. **Dependencies**

Windows operating system is required for the development of the software.

* 1. **Functional Requirements**

There should be a client-server relationship between the two computers. Initially the server should start and wait for the client to connect. Once the client has connected, server should display the

IP address on what the both computers are communicating.

The server also display the port number of the client.

The system should provide a space for user to write message/data, which is send to client/server.

The client and server should able to display the data send and received each other.