
Product Submission Report for Video Teleconferencing

Version 1.0

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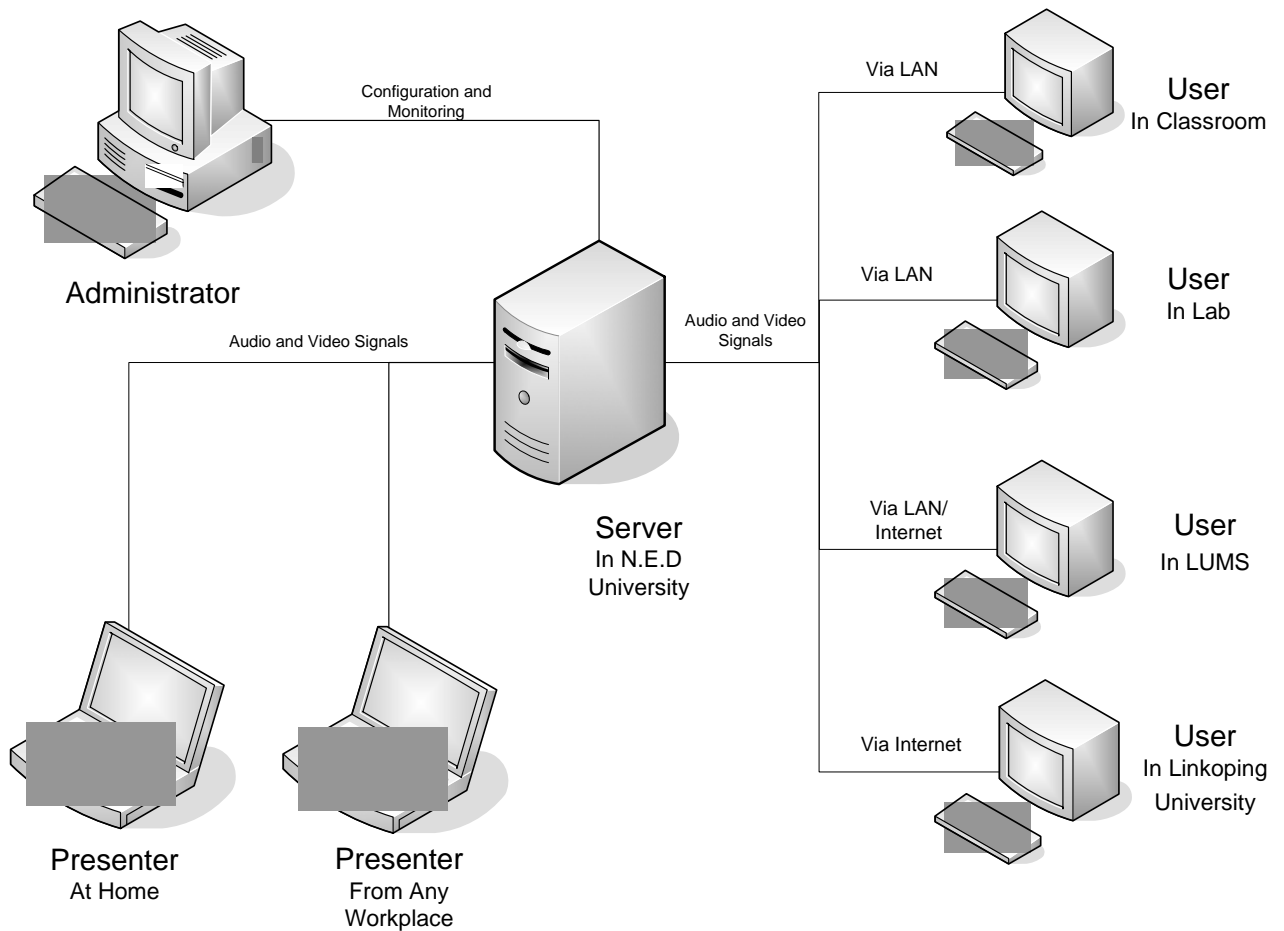
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2. Overall Description

2.1 Product Perspective

The foremost scope of the application is in academia. The software will make inter-room, inter-departmental, inter-university, inter-city, inter-country and across the ocean lecture delivery possible through internet or local area network. Businesses, which have more than single nationwide or global presence may use the software to hold interactive business meetings where managers from different branches can take part in a conference, saving invaluable time and travel expenses spent on commutation.



2.2 Product Features

1. Video and Audio support
2. Text Services
3. Operability on LAN/MAN/WAN
4. Decentralized Server

2.3 User Classes and Characteristics

The intended users of this product in academia are teachers and students (clients). The teachers (presenter) will use the product to telecast lectures over the university network. The students will mainly use it to attend lectures. The system administrator (SysAdmin) will be responsible to monitor and control the activities of the server.

This product will be used in a business setting by managers to hold meetings with their employees. It can also be used to hold meetings with officials from other organizations.

2.4 Operating Environment

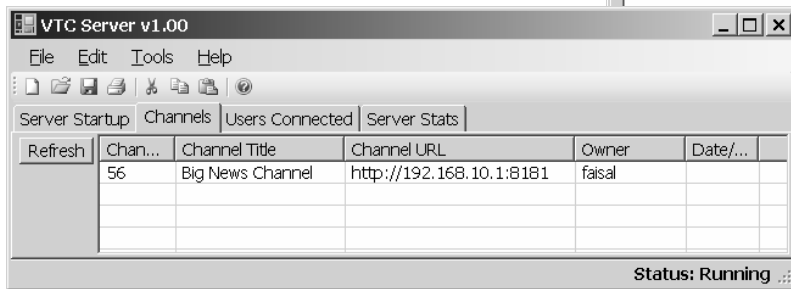
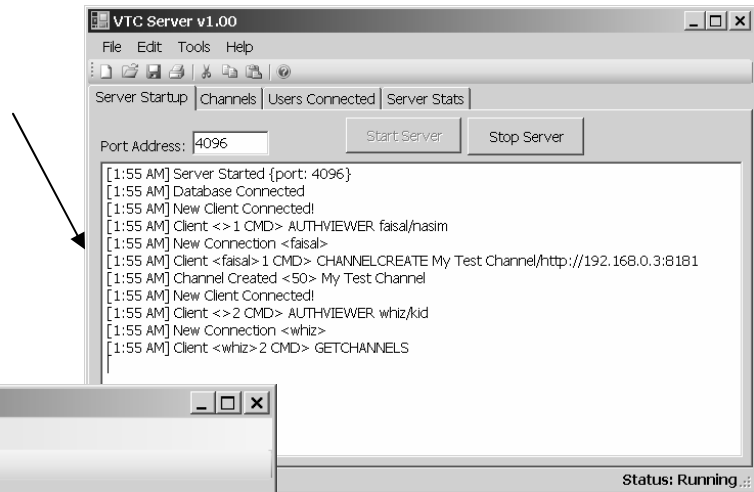
The software is being initially developed to run on computers running Microsoft® Windows operating system. The system will later be ported to work on workstations running the Unix family operating systems (Linux, FreeBSD, OpenBSD, etc).

3. Test Cases

3.1 Server

CASE 1: Starting Server

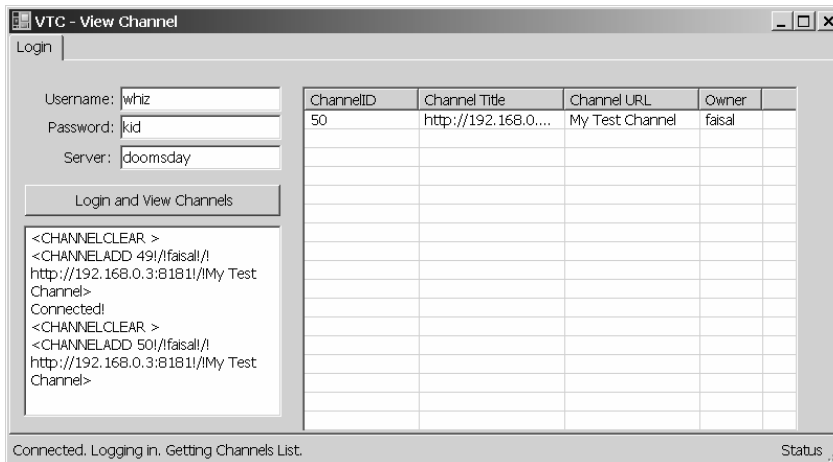
- Select Port
- Click Start Server
- Information appears in the panel



CASE 2: Viewing Channel List

- Select Channels
- Click Refresh
- You see a list of active channels

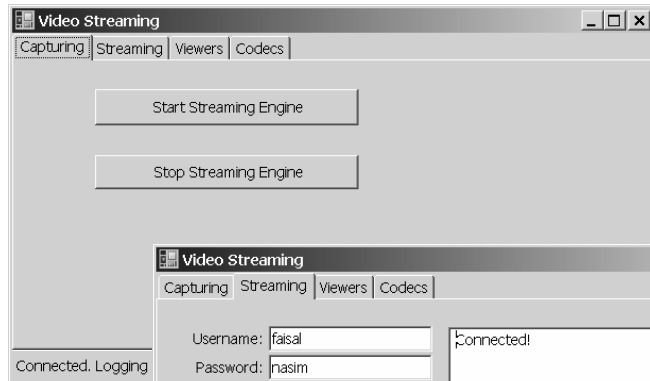
3.2 User



CASE 1: Starting Client

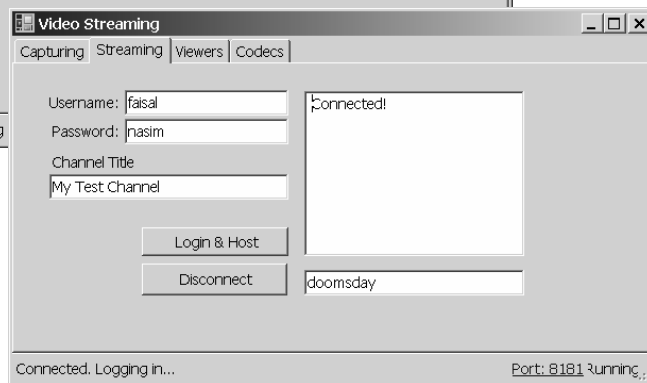
- Enter user/pass
- Enter server location
- Click Login and View
- You can see debug info in the bottom and the channels list on the right
- Double click on an active channel will open it up

3.3 Presenter:



CASE 1: Starting Streaming

- a) Connect your Camera
- b) Select default camera (CPanel)
- c) Click Start Streaming Engine



CASE 2: Hosting Channel

- a) Enter user/pass/server address
- b) Select the channel title
- c) Click Login & Host

4. Database Features

The database of VTC is hosted on Microsoft SQL Server 2005 (optionally SQL Express). The business logic is separated from the code logic through the use of Stored Procedures. Record of all channels that are created are kept even when the channel is disconnected.

Standard SQL Server Report services can be used to generate reports of usage for each user and presenter. The database is only accessed by the server and thus does not expose the database server to the external network.

