

# SIP INTERCOM DEVELOPMENT



Over the past few years the Rogers Communications Centre has invested in a Trilogy Broadcast Mercury Intercom System to operate across its Television Studios. The systems flexible design suits every application ranging from small single studios to the largest multi-studio complex. Employing an IP interfacing system know as SIP the intercom system can be expanded almost limitlessly in terms of system size and geographic location via LAN, WAN or Satellite.

**Session Initiation Protocol (SIP)** is a signaling protocol, widely used for controlling multimedia communication such as voice and video calls over Internet Protocol (IP). The protocol can be used for creating, modifying and terminating two-party (unicast) or multiparty (multicast) sessions consisting of one or several media streams. Ultimately the work will allow softphones connected to the internet (Wi-Fi, Cellular and G4) to integrate with the TV studio intercom allowing for remote production originating anywhere globally to interconnect with the Centre's Television Studio's.



The work involves developing and Open Source VOIP based PBX system that will act as a bridge between the Internet based “voice over IP” technologies with that of the Mercury Intercom System. Ultimately this will allow for Intercom connectivity to remote locations like Ryerson’s Maple Leaf Gardens Athletic Centre and complement the H.264 lo latency streaming technology being developed in the Centre.