Virtual Learning is on the rise globally among educational institutions and large corporates. Cost, convenience and lifestyle continue to drive the need for on-demand self-paced learning, real-time student-teacher interactions, and student-student collaboration.

With increasing diversity of content consumption devices, the need for a scalable content delivery system is a big challenge in deploying a Virtual Classroom solution. ALTEN Calsoft Labs helps customers meet this challenge by offering a cloud-based solution for effective educational content delivery addressing both real-time and on-demand needs.

TMX is a scalable multi-platform video streaming enabled virtual learning system, fine-tuned for the evolving e-learning space. Architectured with scalability, modularity, and multiplatform delivery in mind, TMX can act as a standalone virtual classroom solution or as an integrated module with an existing learning management system.
Key Features

**Cloud Based Solution**
TMX is designed for deployment as a cloud application. It has been extensively tested in public clouds like Amazon cloud and private clouds, and provides much needed scalability and adaptability for integration with distributed databases and datastores.

**Multi-Screen Delivery**
Whether it is an iPad, Android Tablet, Mobile devices or a traditional PC, TMX can adapt itself to deliver content simultaneously to multiple end devices.

**Multi-Format Delivery**
Supporting almost all streaming formats & containers including Apple live streaming, progressive streaming, Silverlight smooth streaming, H.264, VC8, Flash, MPEG-2. TMX is able to meet the needs of different end users.

**Accelerated Content Delivery**
With support for content caching & load balancing, TMX has the ability to accelerate content delivery to end users.

**Intelligent Bandwidth Adaption**
TMX automatically adapts to the bandwidth conditions and intelligently switches over to low bandwidth video delivery in case of poor network conditions.

**Browser Based Management**
Simple yet powerful browser based management console of TMX enables the users to control every aspect of the media content lifecycle.

**Painless IT Management**
TMX alleviates the IT pain points such as BYOD, DIY & QOE Management. Multiscreen capabilities, support for virtually all lecture capturing systems, and ability to visualize & control QOE parameters are some of the key IT friendly features of the TMX platform.

**Engage effectively with students**
TMX allows presentations, videos and screens, to be shared easily, allowing tutors to engage effectively with students. Options to queue student questions make sure that student’s queries are addressed in an efficient manner.

**Interactivity**
Support for features like Chatting, File sharing & screen sharing allows one-to-one or one-to-many interactions.

**Collaboration**
With advanced features like document sharing, group messages, note taking, etc. TMX simulates the virtual class environment to maximize impact.

**White-boarding**
State of the art whiteboard option for the tutor enables best simulation of a class room environment.

**On demand lecture delivery**
With inbuilt storage, archival and powerful search functionality, TMX can offer on demand video content delivery to suit multiple methods of teaching.

**Plugin Environment**
Plugin architecture allows TMX to be an extendable solution that can be easily integrated with the existing Learning management systems like Moodle, OLAT, etc.

**Customization and on-going support**
ALTEN Calsoft Labs leverages its rich experience in development of virtual classroom and LMS solutions to provide customization ans support services to leading institutions.