CERN, the European Organization for Nuclear Research, is one of the world’s leading laboratories for particle physics. At CERN, physicists and engineers are probing the fundamental structure of the universe. They use the world’s largest and most complex scientific instruments to study the basic constituents of matter – the fundamental particles. Founded in 1954, the CERN laboratory is located on the Franco-Swiss border near Geneva. It was one of Europe’s first joint ventures and now has 22 Member and 8 Associate Member States.

**INDUSTRY**  
Science

**WEBSITE**  
https://home.cern

**USE CASE**  
Content Delivery Solutions and Advanced Service Architects

**CERN CHALLENGE**

Live streaming important scientific discoveries to large global audiences.

**CERN SOLUTION**

More than ten years ago, CERN started streaming live events via an internal streaming service to communicate regularly with scientists worldwide. They now stream events to thousands of people simultaneously and needed a content delivery network (CDN) provider to ensure high performance and accessibility. CERN needed to find a CDN that would not become overloaded during traffic spikes. They discovered Limelight Networks who they continue to turn to for high-profile events.

“When CERN makes a major announcement, we use Limelight to make sure information is flawlessly livestreamed in real-time. They help us deliver on our mission of communicating knowledge within the science community and with the public at large.”

*MAREK DOMARACKY, Webcast Service Manager, in CERN’s IT Department*
SCALABILITY
During the announcement of the Higgs boson discovery, CERN used Limelight’s CDN during the live streamed event to more than 50,000 simultaneous viewers and a million on-demand viewers. Regardless of the scope of the event, CERN relies on Limelight to handle high volumes of concurrent traffic as well as spikes.

GLOBAL REACH
CERN regularly shares knowledge with scientists and the general public around the world. Limelight’s private global network makes sure CERN’s events are accessible everywhere.

CUSTOMER SUPPORT
Limelight’s team of engineers are on hand to join events and also available 24x7 to ensure everything runs smoothly.