

# THE SCOM EXTENSION SPECIALISTS

## From Gigabytes to Petabytes: Managing a Tremendous Amount of Data

POSTED: December 04, 2015

With the explosion of social media, the IoT and high resolution image files and videos, the world is storing more data than ever before. If you think about how much data you go through in a day, imagine how much data is used to run the world's most powerful particle accelerator – [the Large Hadron Collider \(LHC\)](#).

The [European Organization for Nuclear Research \(CERN\)](#) is conducting LHC experiments regarding the basic constituents of matter. CERN, which stores and shares data with collaborating institutions around the globe, collects more than 30 petabytes of data per year from the LHC experiments. CERN's EOS Large Scale

Storage System is the keystone of LHC data processing, with installations across two centers for a total of 140 petabytes of installed disk space.

With the tremendous amount of data that needs to be managed – not to mention the growing number of research organizations participating in the experiments – CERN had to come up with a plan to productize the EOS system, in order to facilitate easy data access and use by external contributors. CERN brought Comtrade on board to enhance the EOS's capabilities due to its expertise in storage, network and systems management. Comtrade will focus on the accessibility, manageability and scalability of the EOS storage system helping CERN provide reliable access and support to the researchers collaborating in the experiments even as experimental collaborations grow and more data is produced.



Cern Computer Center © 2012-2015 CERN

To facilitate the research being conducted around the world with the LHC data, the EOS system will need to be deployed and managed in a straightforward manner, regardless of the amount of data and the complexity of the IT environment. The goal is to provide fast and streaming storage to fulfill the experiments' unprecedented requirements for data processing, data distribution and user analysis.

As part of its support for the LHC research program, Comtrade officially joined CERN openlab as an associate member. CERN openlab is a unique public-private

partnership that accelerates the development of cutting-edge solutions for the worldwide LHC community and wider scientific research. Through CERN openlab, CERN collaborates with leading ICT companies and research institutes.

The important research CERN enables around the globe depends on giving scientists fast, easy access to vast amounts of data 24/7. Comtrade aims to improve EOS deployment, data access and management in order to provide researchers with more efficient access and support to LHC data from CERN.

Don't miss the latest news from Comtrade. Follow us on [Twitter at @Mgmt\\_products](#).



First Name \*

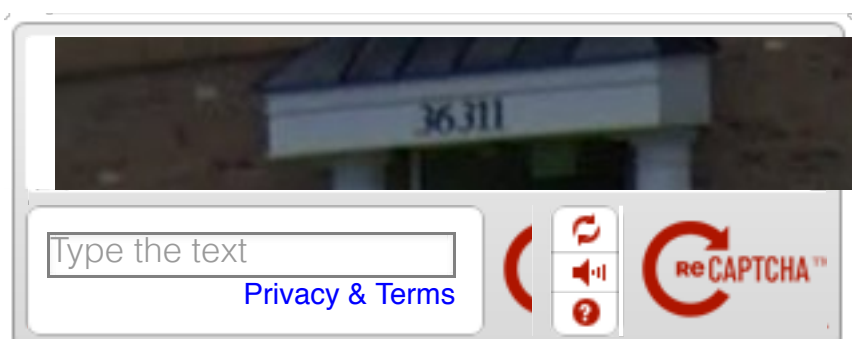
Last Name

Email \*

Website

Comment \*

Subscribe to follow-up comments for this post



SUBMIT COMMENT

## RECENT POSTS

[The Four Most Common SCOM Add-Ons for Citrix Workspace Suite You Didn't Know You Needed](#)  
[From Gigabytes to Petabytes: Managing a Tremendous Amount of Data](#)  
[Using APM Tools to Master Cyber Monday](#)  
[Inside Comtrade: Company Culture from an Engineer's Perspective](#)  
[The Case for APM: Protect and Maximize Your Investment](#)  
[Speedy deployment for monitoring Citrix License Server in the Cloud](#)  
[How to choose the best monitoring tool for your needs?](#)  
[Monitoring Citrix Mobile Workspace Solution with System Center](#)  
[F5 BIG-IP SCOM Management Pack - The Monitoring Tool You Need](#)

## POSTS BY TOPIC

[Citrix Management Packs \(4\)](#)  
[SCOM Plug-ins \(3\)](#)  
[F5 Management Packs \(1\)](#)  
[Product Development Services \(1\)](#)

# SUBSCRIBE TO EMAIL UPDATES

Email\*

SUBSCRIBE

## CONNECT WITH US



## ABOUT THIS BLOG

# Deep Insight Into Monitoring

Everything you need to know on managing and monitoring IT infrastructure and end-user experience with native plug-ins for Microsoft System Center Operations Manager (SCOM).

MANAGEMENT PACKS



[Datasheets](#)

[Webinars](#)

[Videos](#)

[Case Studies](#)

[Compatibility Matrix](#)

[Flyers](#)



[COMTRADEGROUP.COM](http://COMTRADEGROUP.COM)

[Solutions](#)

[System Integration](#)

[Distribution](#)

[Media](#)

© Comtrade 2015. All Rights Reserved.

[| Legals/Impressum](#)

[| Terms of Use](#)

[| Privacy Policy](#)

[| Cookie Policy](#)