



SMPTE
Motion Imaging *Journal*

EXECUTIVE

Mike Zink
 Education Vice
 President

John Belton
 Chairman/Board
 of Editors

Thomas Edwards
James E. O'Neal
Glen Pensinger
 Associate Editors

Brad Gilmer
 Guest Editor

**JOURNAL
 STAFF**

Joel Welch
 Director of
 Education
 914-205-2379

Dianne Purrier
 Managing Editor,
 Digital and Print
 Publications
 914-205-2377

Jeffrey Victor
 Advertising Sales
 North America
 847-721-2730

Neil Howman
 Advertising EMEA
 O: +44 (0)1242
 256 268
 M: +44 (0)7941
 717 436

JUNE 2022: IP-BASED SYSTEMS

TECHNICAL PAPERS

- 8 Introduction**
 Richard Friedel
- 9 Transitioning an Existing SDI Facility to IP**
 Mike Strein
- 16 Software-Based Studios**
 Willem Vermost
- 23 Single Source of the Truth in Media Data Centers**
 Jim Trainor
- 30 Infrastructure as Code at CBC/Radio-Canada's
 Media-Over-IP Data Center**
 Sunday Nyamweno, Patrick Morin, Carl Buchmann,
 Alexandre Dugas, and Felix Poulin
- 38 A Report from a SMPTE ST 2110 Early Adopter:
 WTTG/WDCa Fox Television Builds an IP-Based
 Local Television Station**
 Jim Beahn and Nikhilesh Kumar
- 45 Mastering Quantization is Key for Video
 Compression**
 Michaël Ropert, Julien Le Tanou, and Mederic Blestel
- 54 Standards and Specifications for Carriage of
 JPEG XS in RTP for IP Networks**
 Thomas Edwards

DEPARTMENTS

- 2 Officers**
- 4 Sustaining Members**
- 6 Section Meetings**
- 59 SMPTE Almanac**

COVER CREDIT: TODD GRASTY

Digital Object Identifier 10.5594/jmi.2022.3171483
 Date of publication: 6 June 2022