

PSSI²
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TRANSMISSION TIMES





Happy Holidays

The holidays are upon us, and as we look forward to the coming year, we also find ourselves tremendously grateful for the many successes and moments of celebration 2018 has brought. *From all of us at PSSI Global Services, thank you to everyone who has helped make 2018 another year for the books.*

This year, we have had the honor of welcoming several fantastic new clients, expanding many longstanding relationships and working with terrific partners to launch exciting new services. Among the highlights of 2018 was our work on NASCAR's Rolex 24 at Daytona, where we executed the largest at-home transmission in broadcast history — a project that helped earn us a Technology and Engineering Emmy® Award (more on that later). Around the same time, for ESPN's broadcast of the College Football Playoff National Championship, we transmitted 500 megabits of data out of just one antenna, two transmitters and three transponders — something that has never before been achieved. In 2018, Strategic Television managed all of the transmission pathways for the worldwide distribution of more than 40 pay-per-view events for valued customers including WWE, UFC and Showtime, with PSSI International Teleport serving as a gateway to multiple regions. We're also proud to share that we originated more than 25 events from outside the U.S. this year, visiting countries such as Australia, Brazil, Chile, England, Singapore, Germany, Canada, France, England, Russia, Mexico, Puerto Rico, Saudi Arabia, Malaysia and Thailand.

Of course, none of these accomplishments would be possible without our incredible staff, clients and partners. It is because of you that we are able to continue reaching new heights — and we look forward to yet another year of shared successes in 2019.



Wishing you and your loved ones a **wonderful holiday season** and a **very happy new year.**



And the Winner Is ... PSSI Global Services!

For our team here at PSSI Global Services, breaking new ground in the world of broadcast engineering is a reward in and of itself. But, of course, a pat on the back every now and then is never a bad thing — and we're thrilled to share that the National Academy of Television Arts & Sciences recently honored our efforts with a Technology and Engineering Emmy® Award.

The Technology & Engineering Emmy Awards recognize significant accomplishments in broadcast technology and television engineering, and the Academy selected us as a winner for our work with NASCAR to develop cutting-edge transmission schemes for large-scale "at-home" productions.

While broadcasters have been producing at-home events for many years, our award-winning transmission innovations have enabled much larger — and more complex — at-home productions than ever before. Our second-to-none engineering team has made unprecedented strides in developing new techniques in video compression and modulation to maximize data throughput at extremely low latency through traditional amplifier and antenna configurations for satellite transmissions as well as for fiber and IP distribution platforms. These technological advancements significantly reduce costs and simplify logistics for major live television events by eliminating the need for extensive on-site production crews.

In early 2018, we put these transmission capabilities to use in partnership with NASCAR to successfully conduct the largest at-home production to date for the Rolex 24 in Daytona, Florida. The transmission from the event back to NASCAR's headquarters in Charlotte, North Carolina, included 28 video paths and 75 channels of audio delivered synchronously for 32 consecutive hours. To accomplish this groundbreaking at-home transmission, we needed just two transponders on a single satellite, accessed with one antenna and one solid-state amplifier.

Receiving this Emmy is a huge honor for all of us at PSSI Global Services, and it is the result of a tremendous amount of hard work and dedication.

By combining the right mix of technology, workflows and engineering expertise, we've given our clients the ability to produce large-scale events much more conveniently and cost-effectively. Our team invested countless hours and hundreds of thousands of dollars in developing these capabilities, and we couldn't be prouder of the results!

PSSI-Per-View

When it comes to the topic of pay-per-views (PPVs), we at PSSI Global Services get pretty excited. Not only were we the first company to provide a digitally encrypted PPV transmission, but we were also the first to uplink a 4K signal for a PPV event. And it doesn't stop there — we are continuously working on new ways to expand and improve our PPV capabilities.

Here's a look at some of our recent and upcoming PPV projects:

First-Ever Golf PPV: Tiger Woods took on Phil Mickelson in an 18-hole match at Shadow Creek Golf Course and our team was there with the CK35 mobile teleport and Atlas truck to provide extensive PPV origination services — including 4K transmission and monitoring — for our friends at Turner.

Deontay Wilder vs. Tyson Fury: This highly anticipated fight between two undefeated boxers took all hands on deck! Working with Showtime and international broadcasters, we had our CK35 and K34 trucks on-site to handle multipath transmission and production services for the weigh-in, ringside commentary, and extensive domestic and international transmission services for the main event.

UFC 231: Alongside our partners at Concom, we headed all the way to Canada with three of our finest trucks to provide transmission services for Fox as Max Holloway battled Brian Ortega. In addition to uplinking five paths for the main event, we also provided transmission and production services for the preflight press conference.

UFC 232: When Jon Jones takes on Alexander Gustafsson in Las Vegas, we'll be on hand with three trucks to once again provide transmission services in partnership with Concom for our friends at Fox. We're kicking off the week with the satellite media tour and press conference and wrapping things up with a five-path transmission for the main event.



Congratulations to Our Engineers of the Quarter: Nick Ray and Marc Sarazin

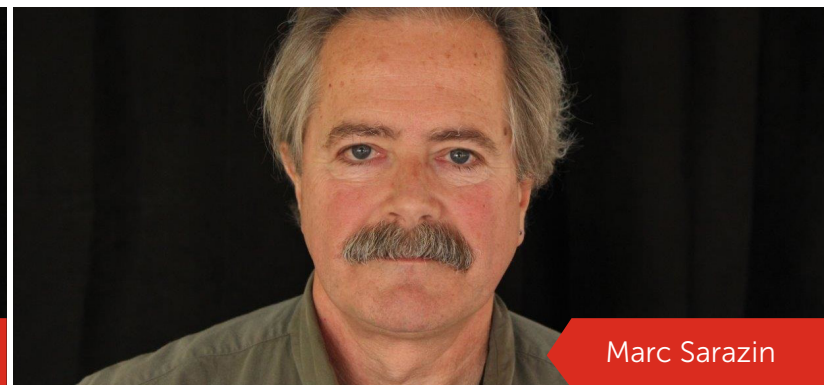
Nick Ray

Nick Ray has been manning uplink trucks for PSSI Global Services for the past five years, and whether he's working SmackDown for WWE or lining up at-home broadcasts for football on CBS and ESPN, Nick's work ethic and diverse skillset never fail to impress. This past quarter, Nick's travels for WWE alone have taken him to almost 20 states and all the way to Canada. Nick was involved in the recent "Tribute to the Troops" at Fort Hood in Texas, and he handled the U.S. side of the international broadcasts from Australia and Saudi Arabia.

Nick began his career in broadcasting as a camera operator and editor. He quickly moved into the uplinking world, working for clients across the country as a freelance engineer and then as a full-time member of the NES Communication Services team. As an engineer, sports isn't the only area where Nick excels. He has also covered major news stories. During the 2012 presidential election, following the uplink of a speech in New Hampshire, Nick went one-on-one on the basketball court with President Barack Obama as they both waited for the crowds to clear out before they could leave.



Nick Ray



Marc Sarazin

Marc Sarazin

With an award-winning career in television and film spanning nearly 50 years, Marc Sarazin has seen major changes and advances in the industry. Marc's been with PSSI Global Services since 2013, and from setting up camera shoots with world and industry leaders to maintaining the fleet in the Northeast, his hard work, dedication and range of abilities make him a tremendous asset to our team. This past quarter, Marc's biggest project was the relocation of the Northeast office. After scouting locations, Marc oversaw the move and single-handedly completed the setup of the new shop. Marc's attention to detail and countless hours of work facilitated a highly successful transition.

Marc started his career working for network affiliates in New England, back when film was still being used. Marc has also worked for production houses, earning honors from the National Academy of Television Arts & Sciences and the New England Broadcasting Association. In 2001, Marc brought his production skills to the uplinking world when he joined NES Communication Services. He has been involved with a diverse range of projects, from major news events, United Nations General Assembly meetings and World Bank summits in Washington, D.C., to live surgery broadcasts from Europe.

Gearing Up for Bowl Season



For the third straight year, PSSI Global Services will be handling all satellite transmissions for ESPN for the College Football Playoffs and the National Championship Game.

Our Director of Broadcast Sports Rick Ball is getting his X's and O's in order for transmission as the top teams in the nation battle for a chance for play for the title.

The playoff bowls this year take us to the Orange Bowl in Miami, Florida, and the Cotton Bowl in Arlington, Texas, for C-Band transmissions. At the Orange Bowl, Rick Ball will be joined by Justin Roszak for a multipath uplink. As part of this coverage, Chris Golden will be in South Beach at ESPN's studio location. Deep in the heart of Texas, Rick Varney and John May saddle up for another multiple mux broadcast at the Cotton Bowl.

The biggest college football game of the year will be one of our biggest football broadcasts of the year. Rick Ball, Rick Varney and Brian Blomstrom will be overseeing around 20 video paths out of Levi's Stadium. And the coverage doesn't stop with the game. The NCG Media Day has Steve Chaisson in

San Jose, California, at the SAP Center for a multi-mux service. Also in San Jose, Chris Hovden will be at Cesar Chavez Park for more of ESPN's coverage of the title game. And of course, what's a big game without a halftime concert? This year's performance will be broadcast live from Treasure Island in San Francisco. Steve Chaisson and Dave Brin will be manning two uplinks at this show.

PSSI Global Services' bowl participation doesn't stop with the playoffs and the NCG, though. How about some sugar and roses on New Year's Day? Nick Ray starts his new year in New Orleans, Louisiana, for the Sugar Bowl. Meanwhile, Wes Hill kicks off 2019 in Pasadena, California, for the granddaddy of them all, the Rose Bowl. Both jobs will be at-home transmission services for ESPN.

We're looking forward to kicking off another great series of bowl games!

Spotlight on Matt Bridges

Here at PSSI Global Services, we talk a lot about our trucks — but there's so much more to us than that. Thanks to the Strategic Television side of our business, we are able to act as start-to-finish event partner for our clients, helping with everything from on-site project management and broadcast logistics to vendor coordination, IP connectivity and telecommunications services. Of course, none of this would be possible without the guidance of Strategic Television President Matt Bridges.

Matt's exceptional leadership has helped PSSI Global Services double our revenue, triple our client base, expand our service capabilities through strategic acquisitions and become the technology partner of choice for many of the world's most popular television networks. Here are a few other things you might not know about Matt ...



Q Please tell us about your journey to your current role at PSSI Global Services.

A My journey started a long time ago, driving from Eugene, Oregon, to Thousand Oaks, California, at 23 years old and never looking back. Thankfully, my journey was more like water carving out the Grand Canyon rather than a rocket blasting off to the moon, allowing me the opportunity to patiently learn and grow from various and diverse mentors such as Dianne McKay, Mike Malitz, Ken Aagaard and George Wensel, as well as the project managers I worked and grew alongside over the years. I learned that getting it done, no matter how tough, was the only option. In live television you only get one chance to get it right.

Q What are your favorite things about working in this industry?

A The people that I get to work with now, and the people I have worked with over the years. I have had the privilege to work with an incredibly diverse group of people — customers, vendors, friends and colleagues — all of whom have made for countless rich and rewarding professional experiences. These experience and individuals have helped shape the person I am today in ways I truly believe could not have been duplicated in any other job.

I am also fortunate to have had the opportunity to travel to every corner of the globe and experience the vast diversity of our world. Through my travels, I have met so many wonderful friends I know I can count on throughout the U.S. and beyond.

Q What is your favorite PSSI Global Services memory?

A I have lots of favorite memories ... Like in 1994, when I managed services for the Super Bowl, NBA Finals and World Series all in the same year. As a side note, I used my NBA Finals credential to watch the New York Rangers win the Stanley Cup, so I effectively hit all the big four that year. Of course, I was also very proud of receiving the "Satelliter of the Year" award, made up by the Church of Scientology. Not sure if sleeping in the middle of Baharia, Egypt, in an abandoned German hot spring is a favorite, but it is certainly memorable. I will also never forget spending five days at the base of the Great Pyramid on the Giza Plateau in Egypt, partnering with a new company from Israel that was effectively a VW bus pulling an antenna. Then there's the many memories from my 25 consecutive years managing the NYC Marathon. Many of my greatest moments and memories are those I share with my colleagues and friends.

Q If not this career, what?

A Cardboard boxes! It's what my father and four brothers did. Instead, I joined my uncle (who met my dad selling cardboard boxes) and cousin in the satellite industry — and the rest is history.

Q Please tell us a bit about your family.

A I have a wonderful wife and two fantastic children (a 13-year-old son and a 12-year-old daughter). I cherish them with all my heart.

Q What's something people might be surprised to learn about you?

A I'm an Oregon Ducks fan. Also, I have a twin brother.