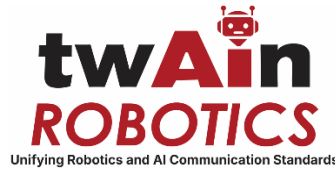


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TWAIN Working Group and the CIP4 Organization Announce Mutual Partnership to Align Robotics and Print Production Workflow Standards

CIP4 joins TWG as an official Liaison Partner, and TWG joins CIP4 as an Appointed Member, connecting the twAin Robotics for Production Print (TRPP) initiative with CIP4's JDF/XJDF job-ticket standards — giving production print facilities a path to bring robotics into existing workflows without custom integration.

Raleigh, NC – October 26, 2026 - The TWAIN Working Group (TWG) today announced that CIP4 Organization — the international standards body behind the Job Definition Format (JDF) and XJDF specifications for print production automation — has joined TWG as an official Liaison Partner. In turn, TWG has joined CIP4 as an Appointed Member. The mutual partnership formalizes ongoing collaboration between the two organizations in support of twAin Robotics for Production Print (TRPP), TWG's initiative to bring open, vendor-neutral standards to robotics on the production print floor.

Where Job Tickets Meet Robots

Production print facilities already run on JDF and XJDF — the job-ticket standards that let presses, finishing equipment, and MIS systems from a variety of vendors to coordinate a job from order entry, to delivery without custom-built integration. As robots move onto the production floor — staging substrate, moving finished goods, handling material replenishment — they need to speak the same operational language as the systems already orchestrating the job around them.

That's the gap this partnership is meant to close. TRPP's robotics interoperability framework — covering device communication and billing metrics — is being aligned with CIP4's JDF/XJDF job-ticket model, so that a robot's activity on the floor can be represented, tracked, and billed inside the same production workflow a JDF-driven MIS already manages, rather than bolted on as a separate, incompatible layer. It is a natural symbiotic relationship between print automation, and robotic implementations.

"Print production has run on JDF for two decades because it lets equipment from different vendors work together without anyone having to build custom bridges between them," said Peter Bedell, Chairperson, TWAIN Working Group. "Robotics on the production floor shouldn't be the exception to that. Partnering with CIP4 means TRPP is being built to fit inside the workflow print production already runs on, not next to it."

"CIP4 has spent 25 years making sure equipment and MIS systems from different vendors can talk to each other through a common job ticket," said Henny van Esch, President, CIP4 Organization. "Robotics is a

natural next step for that same principle. We're glad to formalize this collaboration with TWAIN Working Group and support TRPP as it takes shape.”

What This Means for Production Print

For print production operators, vendors, and integrators, the goal is straightforward: no separate robotics automation layer to build and maintain, and no risk to the JDF/XJDF-based MIS investment already in place. Robots become another participant in a workflow that's already standardized — open, royalty-free, and vendor-neutral, consistent with both organizations' standards philosophy.

CIP4 members and TWG members interested in participating in TRPP working sessions can reach the TWAIN Working Group at info@twain.org or CIP4 Organization at secretariat@cip4.org.

About the TWAIN Working Group

The TWAIN Working Group (TWG) is a nonprofit industry organization dedicated to developing and maintaining open, vendor-neutral standards for imaging and automation. Founded in 1992, the TWAIN standard is embedded in hundreds of millions of devices and applications worldwide and is recognized as the definitive interoperability standard for document imaging. TWG's twAI Robotics initiative extends that same open-standards discipline to autonomous mobile robots and robotic systems — spanning office automation (TROA) and production print environments (TRPP) — establishing common frameworks for device communication, fleet interoperability, and billing. TWG members include leading hardware manufacturers, independent software vendors, systems integrators, and end user organizations across the globe. For more information, visit www.twain.org.

About CIP4 Organization

The CIP4 Organization (International Cooperation for the Integration of Processes in Prepress, Press and Postpress) is a not-for-profit standards association dedicated to fostering the adoption of process automation in the printing industry. Founded in 2000, CIP4 maintains the Job Definition Format (JDF) and Job Messaging Format (JMF), along with their JSON-redesigned successors XJDF and XJMF, published in 2018 — the industry-standard job tickets that let equipment and MIS systems from different vendors integrate without custom development. CIP4's membership spans print facilities, prepress companies, publishers, and vendors of graphic arts systems and software across 31 countries. For more information, visit www.cip4.org.

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