"Take the Smart Path to Move our World to UHDTV ! »

What is TICO Alliance ?

*"The growing consortium is a coalition of companies
united to set the bar for **next generation UHDTV 4K and 8K infrastructure**
by establishing **TICO compression**
in the **new IP-based Live ecosystem**.
The group will enable the industry
to **seamless update the existing SDI-based workflows
to UHDTV** without the cost of a complete renewal. "*

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What is TICO Alliance ?

TICO Alliance has been launched in 2015 (NAB) :

- To ease UHDTV adoption over the current SDI infrastructures;

- To ease UHDTV adoption over the new IP-based infrastructures;

- To support transportation of UHDTV streams across the IP network or the existing 3G-SDI infrastructure;

- To help Broadcasters & AV facilities to fully benefit from a seamless, integrated and high-quality UHDTV ecosystem from end-to-end;

- To enhance live IP systems by increasing efficiency and reducing cost for both HD and UHDTV video thanks to TICO technology;

- To develop and promote technical specifications and standards intended to ensure interoperability among TICO equipment;

- To enable new business opportunities.

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Vision, Mission & Goals

Vision: Become the driving force ensuring TICO develops into a leading compression standard.

Mission: Collaborate so that TICO is widely accepted, deployed and supported for the benefit of industry.

Goals:

- Demonstrate support for the development and use of TICO.

- Educate and create awareness about the benefits of TICO.

- Promote interoperability between standards and system devices.

- Promote the development of tools by members and industry peers.

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What is TICO ?
A disruptive lightweight compression

"TICO is a lightweight compression technology invented by intoPIX, which enables UHDTV to be transported over legacy SDI infrastructure and modern IP production and contribution networks. TICO is now becoming a SMPTE Registered Disclosure Document (RDD35) for the benefit of the entire broadcast and media industry."

Key benefits :

- Visually lossless compression up to 4:1
- Even Mathematically Lossless capable at lower compression ratio
- Robustness to multiple encoding generations
- Resolutions from HD to 4K/8K

- Fixed & Pixel lines-based latency in hardware
- Extremely light in FPGA (no external DDR memory)
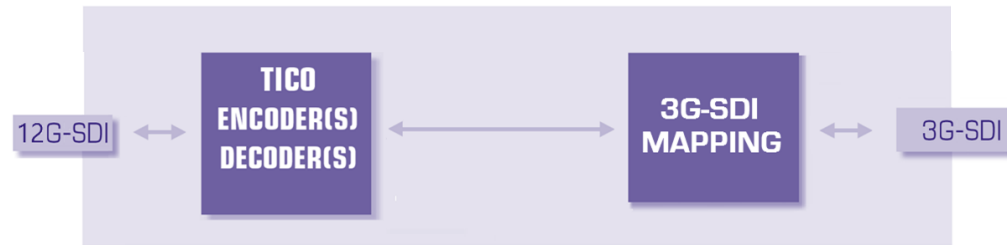- Fast , low latency, & efficient in software
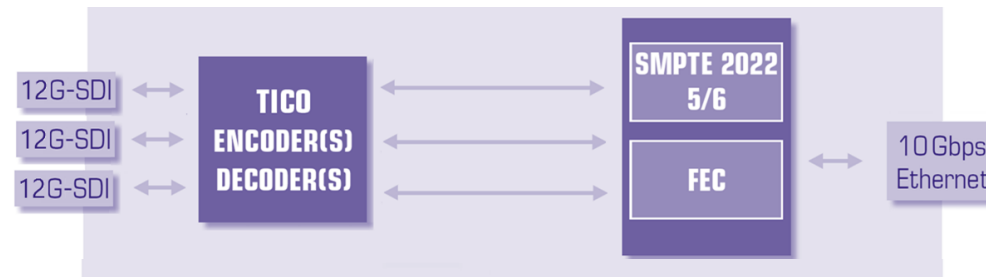
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Tico Alliance

What is TICO ?
A Smart path to UHDTV 4K Live

4K60p over a single 3G-SDI

3 x 4K60p over 10G IP

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✓ Preserved quality
✓ Smallest latency
✓ Lightest implementation
✓ Cost effective infrastructure
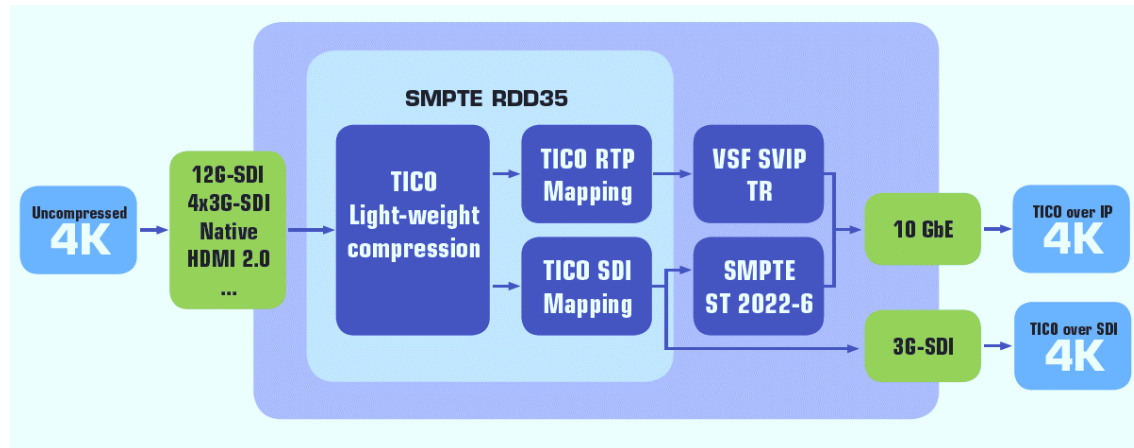
2016 Focus Areas

- Enlarge the TICO Alliance community

- Enlarge the TICO Alliance activities

- Transport interoperability   (IP & SDI)

- 4K and Ultra HD (7680x4320)

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Tico Alliance

TICO Alliance – SMPTE RDD35 Activity Group:

SMPTE RDD35 overview

Normative references

TICO is running with the following standards and recommendations:

- **SMPTE RDD35**
  - Describing the TICO compression, TICO mapping over active area of SDI/ST2022-6 and TICO mapping on RTP

- **SDI/SMPTE 2022-6, ready for the future**
  - SMPTE RDD35 specifies how to map TICO 4K codestream in the active area of a 3G-SDI to be carried on SMPTE2022-6 without any change to the standard

- **VSF TR03 (draft)**
  - SMPTE RDD35 specifies how TICO codestream of any resolution and frame rates are mapped as a single RTP TICO stream to be carried as an independent video essence
  - (ie, AES67 for audio over IP and draft-ietf-payload-rtp-ancillary for ancillary data over RTP)

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TICO Alliance Members - Q3 2016

ALTERA

ARTEL VIDEO SYSTEMS

B Barnfind Technologies

bluefish444

DELTACAST VIDEO SOLUTIONS FOR DEVELOPERS

embrionix

EVS

GeFei
WWW.GEFEI-TECH.COM

COBALT

GV grass valley
A BELDEN BRAND

KG KEISOKU GIKEN

Imagine COMMUNICATIONS

B&M MODERN MEDIA INC.

netinsight

image matters

intoPIX
secure image technology

MACNICA AMERICAS

matrox

quantumdata

nevion

PSNC

ROSS Production Technology Experts

Video Clarity
Tools for Video Analysis

Media Links
Media Defined Networking

Tektronix

Grandbeing
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ALL PROGRAMMABLE

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