

How Provenance™ can make MiFID 2 timing compliance easy

## The Challenge

## New MiFID 2 timing regulations for recording trade data (RTS 25)

- Highly accurate timestamps required for high-frequency trade data
  - Must be synchronized to UTC
  - Granularity: 1 microsecond or better
  - Maximum divergence from UTC: < 100 microseconds</li>
- Traceability requirements
  - Must be able to demonstrate traceability to UTC by documenting the system design, <u>functioning</u> and specifications



#### The Problem

#### Timing accuracy can change over time

Clock drift, system or network load, cross-traffic, configuration changes ...

#### Burden of proof is on traders

To prove timestamps were accurate when trade data recorded

#### Need to continuously monitor and record timestamp accuracy

- How to do this?
- Needs to be easy to correlate with recorded trade data
- Minimize compliance overhead



## The Solution - introducing Provenance

## New feature of Endace DAG™ data capture cards

### Watermarks recorded traffic every second with additional rich data

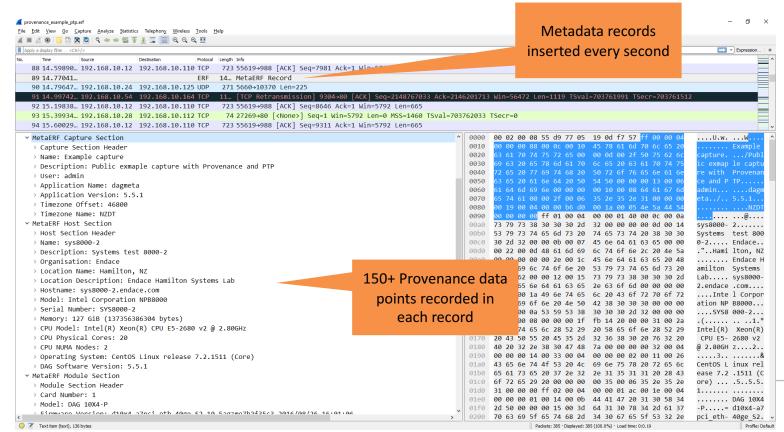
- Full timing data: time source, synchronization method, clock accuracy (drift)
- And 150+ other data points: hostname, location, link name, link type and many more

# Provenance records automatically embedded in recorded traffic

- A permanent indelible record archived alongside recorded trade data
- Maintains full context
- Easy to reference with standard packet tools e.g. Wireshark
- Extensible format future proof for evolving business/regulatory needs

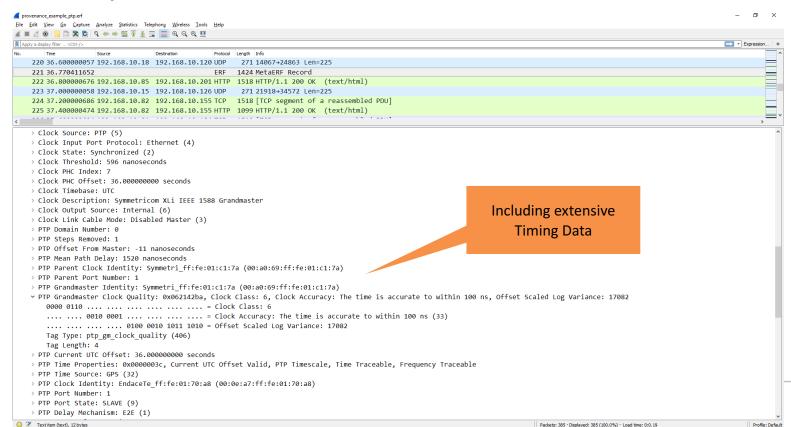


# A quick look





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# How do I get Provenance?

Available <u>NOW</u> on all DAG 10X cards



Dual port: DAG 10X2-S and DAG 10X2-P

Quad port: DAG 10X4-P

 Q1, 2017 on EndaceProbe Network Recorders



New OSm release 6.3 in Q1, 2017



# **New Pricing!**

#### **DAG 10X2-S**

- Dual port 1/10 GbE card
- 100% accurate recording
- Nanosecond-level accurate hardware time-stamping
- Dedicated SFP Time Sync Port

Now just US\$2500 per card





#### **Questions?**

#### For further information contact:

#### **North America**

**Dan Diversey** 

Mob: +1 773 320 7474, Email: dan.diversey@endace.com

#### **EMEA**

**James Barrett** 

Mob: +44 7766 384112 Email: james.barrett@endace.com

#### **APAC**

**Anthony Adamo** 

Mob: +61 451 195 454 Email: anthony.adamo@endace.com





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