



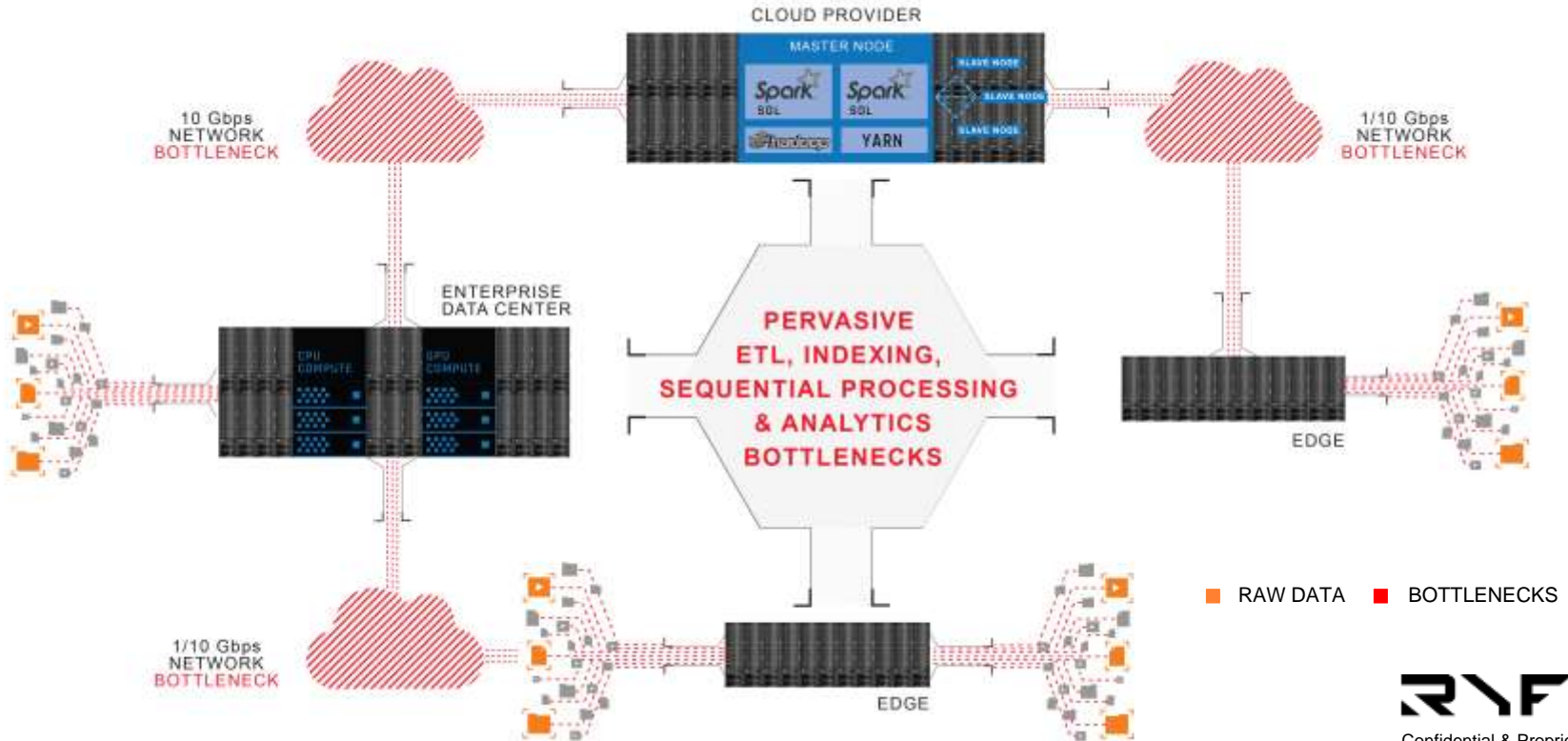
## Supercharging High Performance Analytics

Eliminating Bottlenecks with the World's Fastest Converged High-Speed Network Attached Storage & Compute Appliances



# Legacy Architectures Render **Big Data Useless**

Today's analytics systems were **never architected to deliver** instant insights from fast data



# Big Data—Meet the Power of the Ryft ONE

**Patented** converged SSD-based Network Attached Storage (NAS) & hybrid FPGA/x86 compute

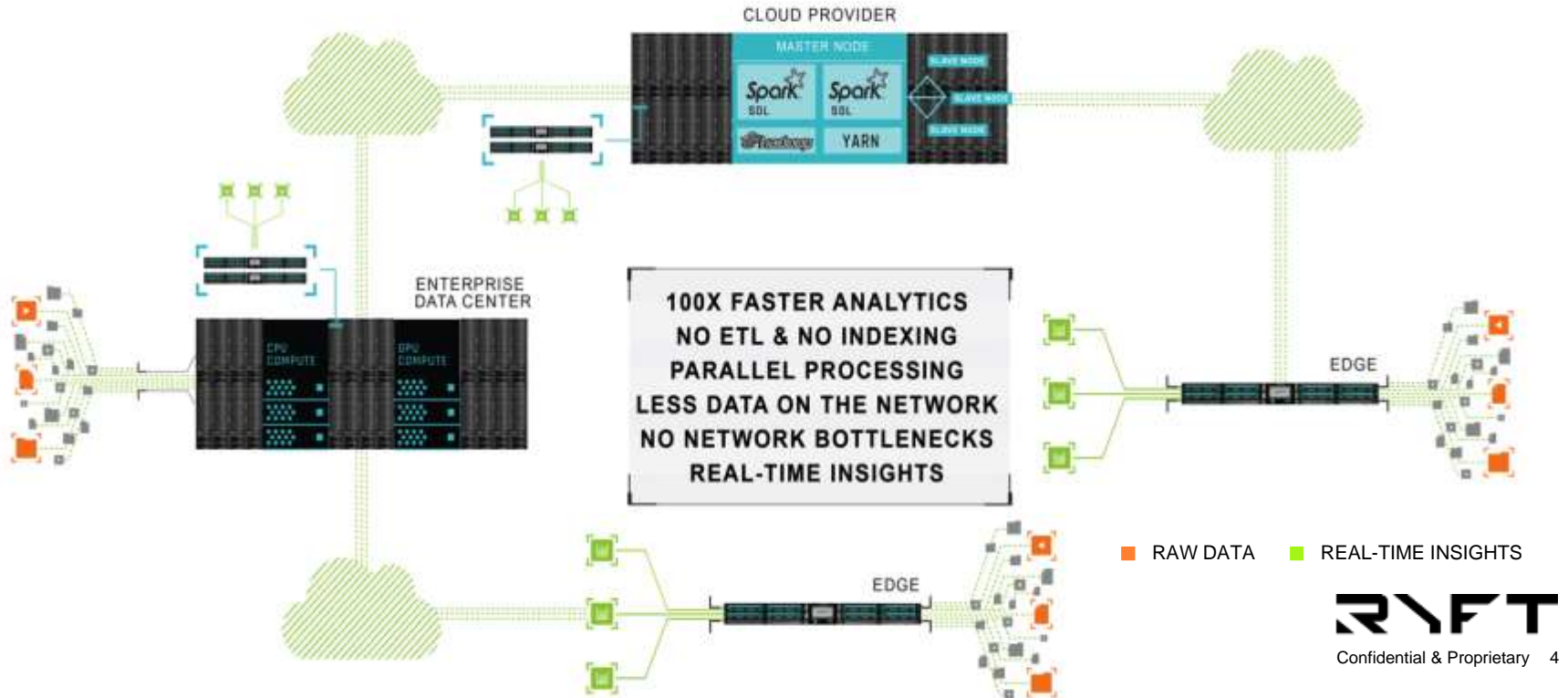


- Real-time analytics performance without transformation & indexing
- Flexible complex data mining interfaces
- Built-in library of algorithmic primitives
- Open compute API ([www.ryft.com/api](http://www.ryft.com/api))
- Linux front end
- Designed for easy migration & integration
- Dedicated remote management
- Versatile & easy-to-manage scale-out architecture
- Compact 1U rack-mountable appliance form factor
  - 12-48 TB of All-Flash SSD storage
  - Encryption & Decompression with no performance loss
  - 1/10/40 GbE & InfiniBand network interfaces
  - NAS protocols including NFSv4
  - Ultra high efficiency at less than 750 watts
- 100 node Ryft CLUSTER delivers
  - Single file system & global namespace
  - 200+ GB/second throughput
  - 4.8 PB storage in only 2.5 racks

**RYFT**

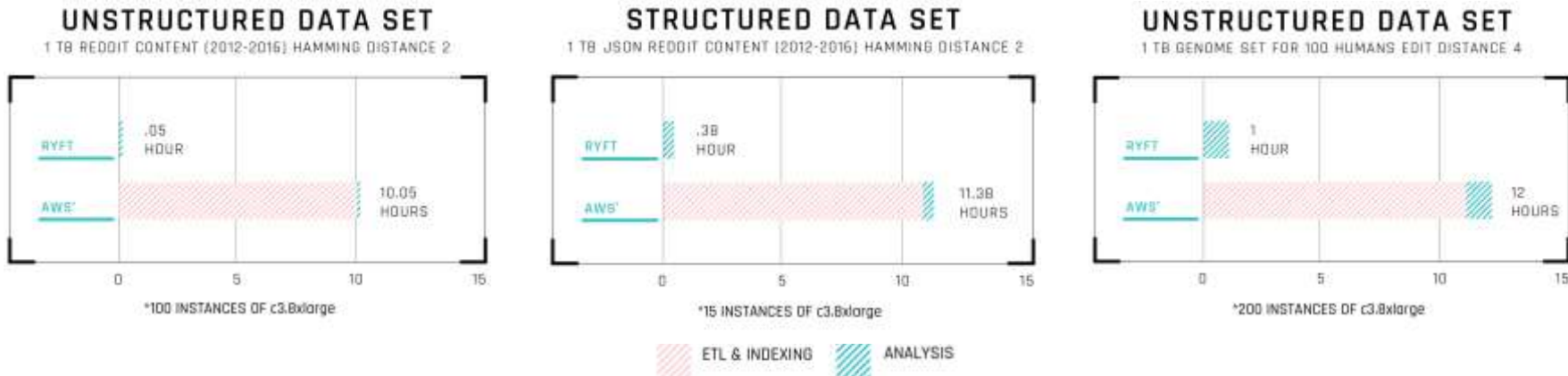
# Ryft **Eliminates All Bottlenecks**—at the Edge, in the Data Center & in the Cloud

Deliver **instant insights into any data** without transformation & indexing



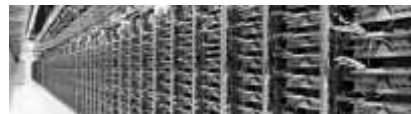
# Ryft Renders Big Data Relevant Now

Competitive benchmarks prove **Ryft dramatically outperforms AWS** high performance clusters



- **Performance:** Up to 10 GB/second; no ETL or indexing latency
- **Storage:** 12-48 TB in 1 rack unit (1.75")
- **Energy:** 750 Watts

1 VS 100+



- **Performance:** 100- to 200-node Spark cluster to match Ryft speeds, based on workload
- **Storage:** 64-128 TB in 5-10 racks
- **Energy:** 110,000 to 220,000 Watts

**RYFT**

# RIFT

Thank You



# Backup Slides

# Ryft Products Are Used in a **Broad Range of Use Cases** Across High-Growth Vertical Markets



## FINANCIAL SERVICES

- Correlates data in milliseconds to stop non-compliant transactions
- Speeds fuzzy search to analyze massive volumes of uncertain data to detect & prevent fraudulent charges



## CUSTOMER VISIBILITY

- Analyzes streaming & batch data together for a complete customer view
- Enables remote analytics without moving data for a more personalized customer experience



## CALL CENTER RECORDS

- Speeds searches of large & complex data for immediate & personalized responses
- Leverages the most accurate fuzzy search to catch all variations of customer data



## SECURITY & DEFENSE

- Scales analysis of Petabytes of raw text, audio, video & other data to 200 GB/second speeds
- Enables the most accurate intelligence gathering



## E-MEDICAL RECORDS

- Enables instant patient identification & matching by accelerating the broadest possible fuzzy matching on raw unstructured data
- Reduces medical errors & administrative costs



## GENOMIC RESEARCH

- Speeds DNA searches to just seconds to advance research discoveries & precision treatments
- Compresses entire data pipeline & enables multi-purpose analytics



## IOT SENSOR & DEVICES

- Analyzes & thins fast data the instant it's captured
- Informs in-the-moment decisions at the edge & powers new data-driven services



## SUPPLY CHAIN LOGISTICS

- Accelerates end-to-end visibility across many forms of data to inform split second decisions
- Optimizes inventory management with faster & more accurate predictive analytics



# The Ryft ONE Is the First Appliance to Leverage a Hybrid x86/FGPA Architecture

