<MOTIVATION>
Compact & Efficient XML
Better Compression than other Techniques with Binary Data Binding

Bandwidth Maximization / Deepening The Web
Extends XML use to Low-bandwidth, High-Volume Domains

Standardization and Interoperability
World Wide Web Consortium Member Created
"Best of Breed Solution"

Application To DoD
- DoD is Heavily Invested in XML
- DoD Files are often Numerically Intensive
- DoD Files are often Very Large
- Next Generation of Devices Supported
- DoD Tactical Networks are Bandwidth Limited

PROBLEM STATEMENT
Network Edge Devices Unable To Process Native XML Format (Battery, CPU, Bandwidth)
- XML is VERBOSE
- XML is Text Only = Computationally Expensive
  - String to Numeric Conversions
  - Memory Intensive
  - Power Demanding

Net-Centric Warfare Requires XML
- Every Sailor and Soldier is a Sensor (Low Bandwidth mobile edge)
- System of Systems Interoperability (the DoD Information Warfare vision)

Why Not GZip
- Because it Doesn’t Address Processing Efficiencies
- Better Compression can be Achieved for XML

CONCLUSIONS
EXI Deliver Statistically Significant XML Improvements
EXI has DoD Specific Expectation of Doubling Bandwidth Potential

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