

**We fluidify the data traffic**

Instant IT solutions fluidify the exponentially growing data traffic, by optimizing the access to the data onto existing I&C infrastructures.

**Why still be waiting for data?**

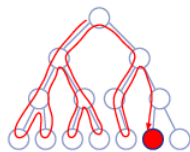


**IXDS™**  
**Instant XML Data Server™**  
**The XML R\*-evolution**

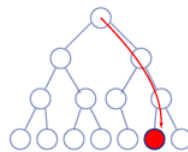
(R\*: Random Access)

## Instant XML Data Server™ - Executive Summary

Traditional XML Parsing ... or ... Instant XML Data Server™ ?



**XML Tree Traversal**  
= Sequential Parsing



**IXDS™**  
Instant XML Data Extraction

- » XML, although it has become one of the key IT technologies, is still suffering from an intrinsic Performance issue
- » Instant IT SA is introducing IXDS™ (Instant XML Data Server™) to solve the XML Performance Syndrome

## XML Sequential Parsing

- » Accessing information within an XML Infoset is made by *sequentially parsing the whole XML document*, leading to:
  - Potentially huge computation times
  - Huge server resource requirements, either RAM or Processing & I/O

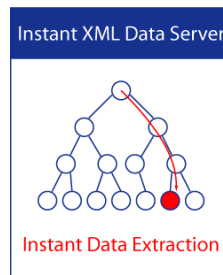


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## IXDS™ - Instant XML Data Extraction

- » Instant IT's unique software technology allows to instantly extract any data from the XML document:
  - Independently of the XML Infoset size
  - Directly out of the XML file, without loading the whole data into RAM memory, nor sequentially parsing the whole XML file

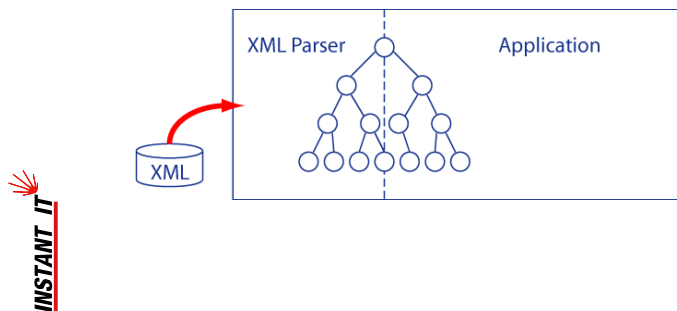


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## How the Application accesses XML

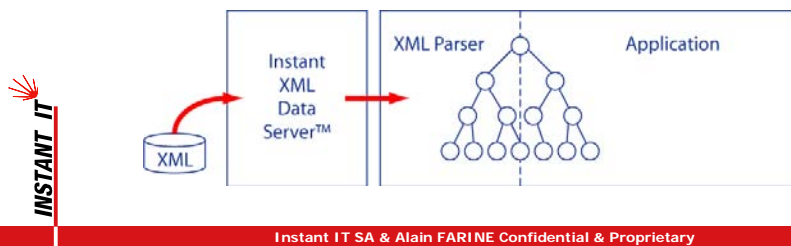
- » The Application Software uses the XML Parser (DOM, SAX, ...) for turning the original XML data into a form that can be used by the Application internal data representation:



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## IXDS™ Liberates the XML Parsers Performance

- » By inserting the Instant XML Data Server™ between the XML Storage and the XML Parser, one enables the Application Software to:
  - Continue using strictly the same XML Parser, meaning that the Application doesn't need to be modified
  - Thoroughly continue using the same XML Infoset, without any XML structural modification
  - Gain the Instant XML Data Extraction capacity

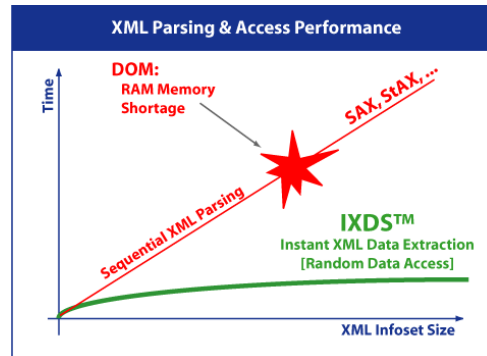


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## An Obvious Performance Advantage: XML Size

- » IXDS™ performance behaves in a close to constant way, independently of the XML Infoset size

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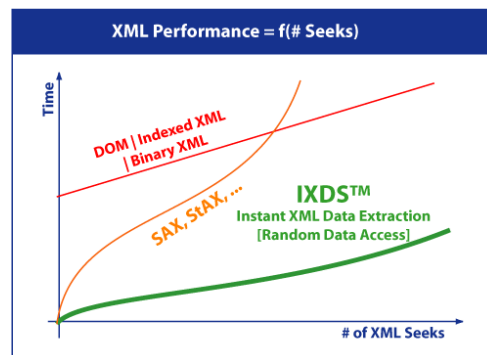


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## An Obvious Performance Advantage: # of Seeks

- » IXDS™ displays a clear operational advantage over traditional parsers when processing large amounts of XML Seeks:

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## But in fact, what is IXDS™ ?

### » IXDS™ is:

- A pure software application that is based on Instant IT's unique data extraction & processing software technology
- A novel way in accessing, extracting and processing massive data and/or heavy request loads
- A seamless upgrade path for existing XML & IT infrastructures, providing a Performance Quantum Leap without changing the XML Application

### » IXDS™ isn't:

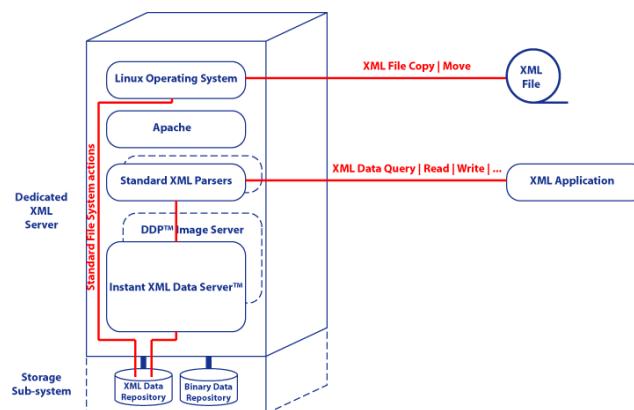
- Another Proprietary XML format
- Another Binary XML-like format
- Another exotic solution that would call into question your existing XML & IT Infrastructure

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## Instant XML Data Server™ - Implementation

- ### » The Instant XML Data Server™ is a simple software installed on a standard Linux Storage Server

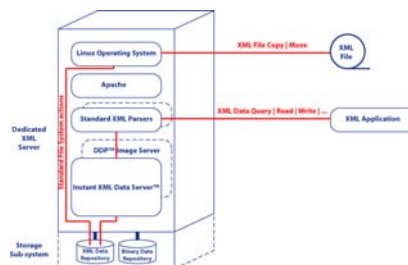


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## Instant XML Data Server™ - Integration

- » IXDS™ seamlessly integrates with:
  - The IT Legacy Infrastructure (file, archive,...)
    - XML Files can be copied or moved to/from the IXDS™ storage through standard file system actions, at any time
  - The XML Applications
    - Standard XML Parsers (DOM, SAX, StAX)
    - Standard XML Frameworks (XPath, XQuery)
  - The WEB Diffusion
    - Complex documents or contents may include binary images or documents, to be dynamically served by the DDP™ optional image server



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## IXDS™ - Unique Selling Proposition

- » True Random Access to the XML Infoset with Read & Write capability
- » Dramatic XML Parsing & Access Performance Increase
- » Lower Hardware Configuration Dependencies
- » No Preliminary Indexing Phase, nor Transcoding
- » Perfect Complement to Standard XML Parsers: DOM, SAX, StAX, XPath, XQuery
- » Parallelization of the XML Sequential Parsing on multi-processors, distributed systems or multi-core CPUs
- » Directly pluggable into any XML File & Archive legacy infrastructure, with XML File Copy & Move capability at any time

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## Instant IT Addresses Large Data Sets Issues

- » Instant IT provides a unique Software Technology Framework allowing to address the Performance and I&C Infrastructure issues related to:
  - Large & Complex Data Sets
  - Access & Extraction of Massive Data
  - Numerous Simultaneous Users
  
- » This Software Technology has been constantly developed and improved since the early 90's. Thanks to our unique methodology and know-how, it is still unrivalled in the worldwide IT market.



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## Avoiding the Brute Force Computing Syndrome

- » Instant IT's Software Technology solves numerous I&C problems, avoiding the traditional and mostly inefficient *Brute Force Computing Syndrome*, by:
  - Instantly extracting any data from the storage, like a pipette would do, independently of the original data size and complexity
  - On-the-fly processing the requested extract through extensive macro-pipelining and macro-parallelism
  - Diffusing the *result of the data* in pipelined mode to the requesting client, in the exact size, format and form



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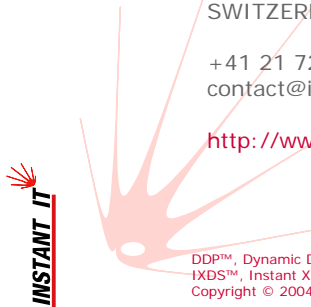


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