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Integrating an XBRL Processing Engine into your Application

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UBPartner Overview

- Edgar Online / UBmatrix distributor in EMEA
 - Key contributors to the XBRL standard
 - Major players in worldwide Taxonomy development
 - 3 product areas:
 - Data analysis (US EDGAR)
 - Filing services (US SEC)
 - XBRL software
- UBPpartner to provide a complete range of XBRL software solutions in Europe for:
 - Regulator / Government – collection systems
 - Enterprises – XBRL filing systems
 - Application vendors – value added XBRL solutions

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Example Customers & Partners

The Leading Customers choose UBmatrix technology:



The Best Partners select UBmatrix::



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Complete XBRL Tool-Kit

XBRL Processing Engine

UBMATRIX™ XBRL Processing Engine

XBRL Reporting & Conversion Tools

- ▲XBRL Report Builder
- ▲XBRL Converter Tool
- ▲XBRL Rendering Tool

XBRL Taxonomy Tools

- ▲XBRL Taxonomy Designer
- ▲XBRL Taxonomy Generator
- ▲XBRL Formula Generator

XBRL Application Suites

- ▲XBRL Taxonomy Manager
- ▲XBRL Reporting Manager
- ▲XBRL Forms Server

XBRL Database Storage

- ▲Oracle Database XBRL Extension
- ▲XBRL Database Adapter

XBRL Analysis Tools

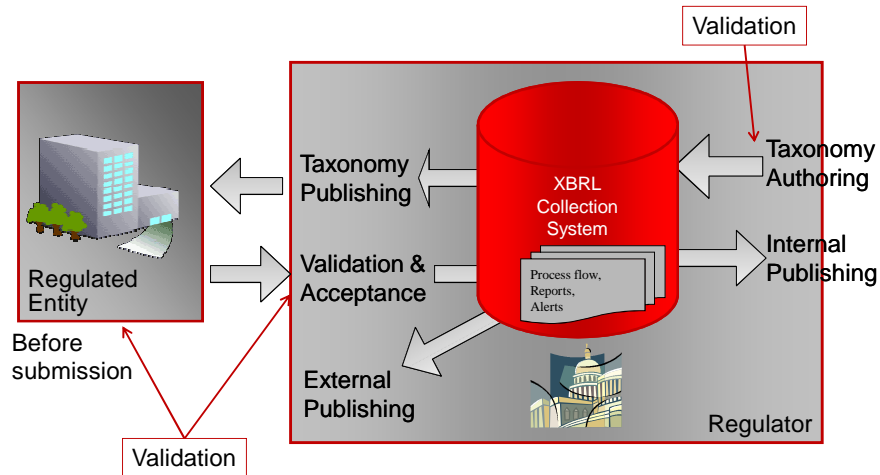
I-Metrix Analysis system

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XBRL Processing Engine

Key to Quality Benefits of XBRL



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Some Observations

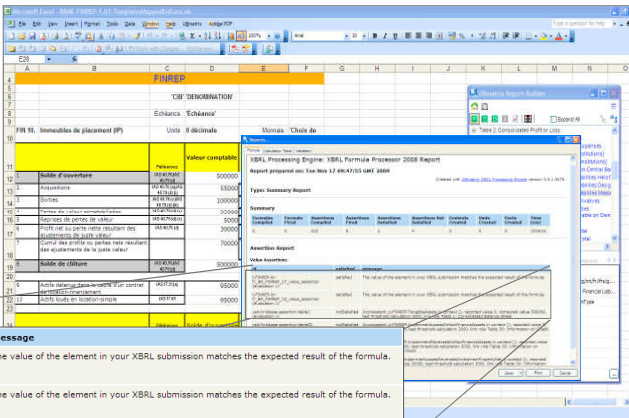
- The importance of Taxonomies
 - Impact on all parts of the 'value chain'
 - Balance: Perfect IT model vs. business 'usability'
 - Performance & Flexibility (like any Data Model)
 - More people who review the taxonomy, the better it will become
- The importance of Validation before Submission
 - XBRL enables submitters to identify errors before sending
 - Reduces the need for resubmission
 - Reduces cost for regulators and filers
 - BUT – submitters need same access to XBRL Processing capability
 - Example – [XBRL Converter Tool](#)

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Submitters can extend Quality Checks with XBRL Formulas

- Embedded XBRL Processor enables execution of XBRL formula validation
 - Public Validation Criteria, e.g. Belgian Ministry of Finance
 - Private business rules and compliance



id	satisfied	message
t-FINREP-br-fr_BR_FINREP_17_value_assertion (evaluation 1)	satisfied	The value of the element in your XBRL submission matches the expected result of the formula.
t-FINREP-br-fr_BR_FINREP_18_value_assertion (evaluation 1)	satisfied	The value of the element in your XBRL submission matches the expected result of the formula.
calc-linkbase-assertion-table1 (evaluation 1)	notSatisfied	Inconsistent: p-FINREP:TangibleAssets in context (), reported value 0, computed value 500000, test threshold-calculation 3000, link role Table 1: Consolidated Balance Sheet

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XBRL Processing Engine - The heart of an XBRL system

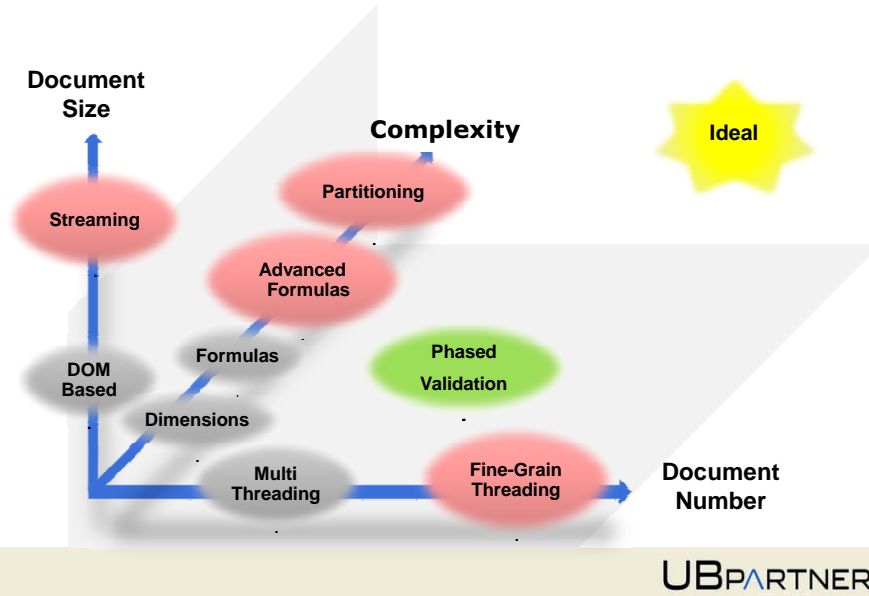
So how do you select this critical component?

1. Is it compliant with the full XBRL standard?
 - BE WARNED - some aren't!
 - You can fake it (hard code) but will cost you in long-term
2. Is it flexible? – today vs. tomorrow
 - Will it support future taxonomies and XBRL standard developments
3. Is it 'Easy to Use'?
 - Is it easy to integrate into existing architectures (API, error tracking...)
 - Is it available as packaged applications or tools
4. Does it deliver the level of Performance required?
5. Is it cost-effective?
 - Not just software costs, but also all the hidden costs

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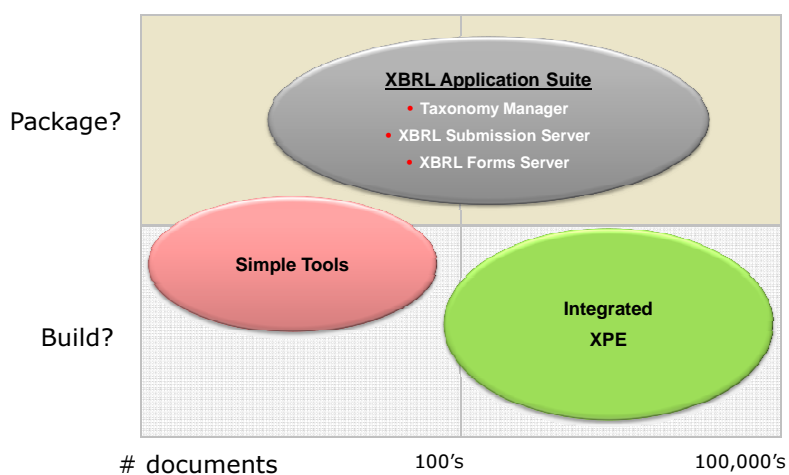
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Performance – Not a single issue



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Build vs. Buy



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XBRL Conversion and Rendering Tools

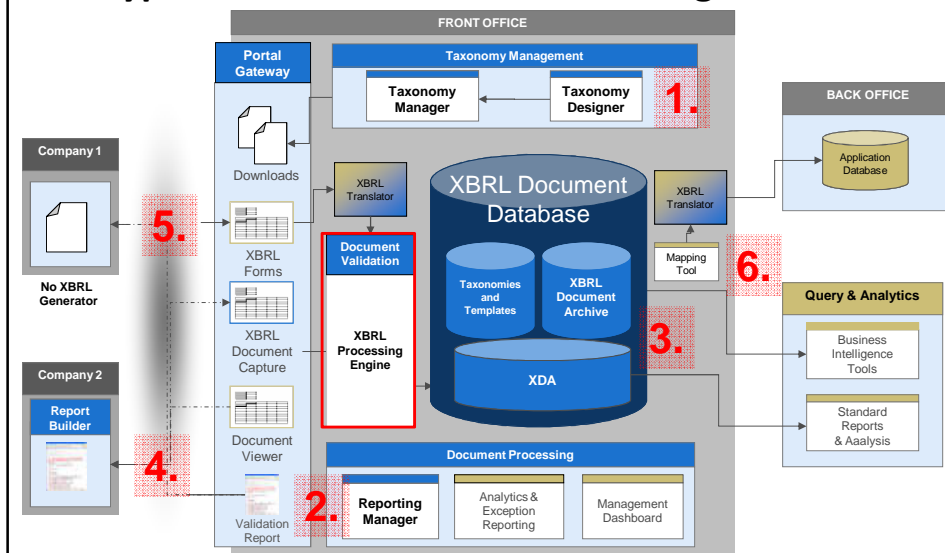
- XBRL Converter Tool (XCT)
 - Converts Excel template into XBRL
 - No knowledge of XBRL required
 - Can handle large XBRL files – e.g. Solvency II
 - Optional local validation via UBmatrix XPE
- XBRL Rendering Tool (XRT)
 - Converts XBRL document into Excel Report
 - XPE Validation and error reports
 - Excel report output
 - Highlighting of validation errors
 - Explanatory error notes



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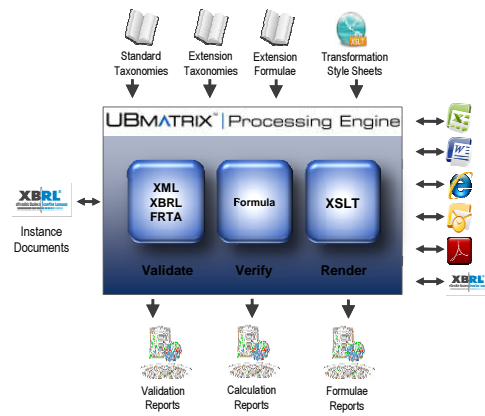
Typical XBRL Document Processing Service



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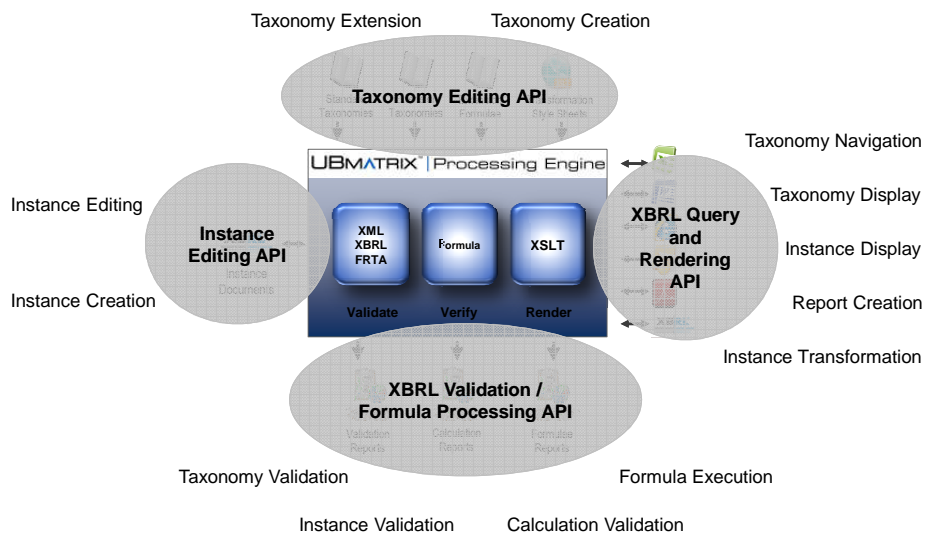
XPE Architecture



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XPE Architecture



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Conclusions

- XPE is the core of your XBRL system
 - Choose your vendor wisely!
 - Be careful of short-term solutions
- Build vs. Buy
 - Proven solutions
 - Start Simple, GROW BIG
- XBRL Expertise – reduce risk
 - Technical support from experienced team
 - Range of implementation, local partners
- Reminder:
 - Validation before submission
 - Solvency II Taxonomy is critical
 - Get involved in the review



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