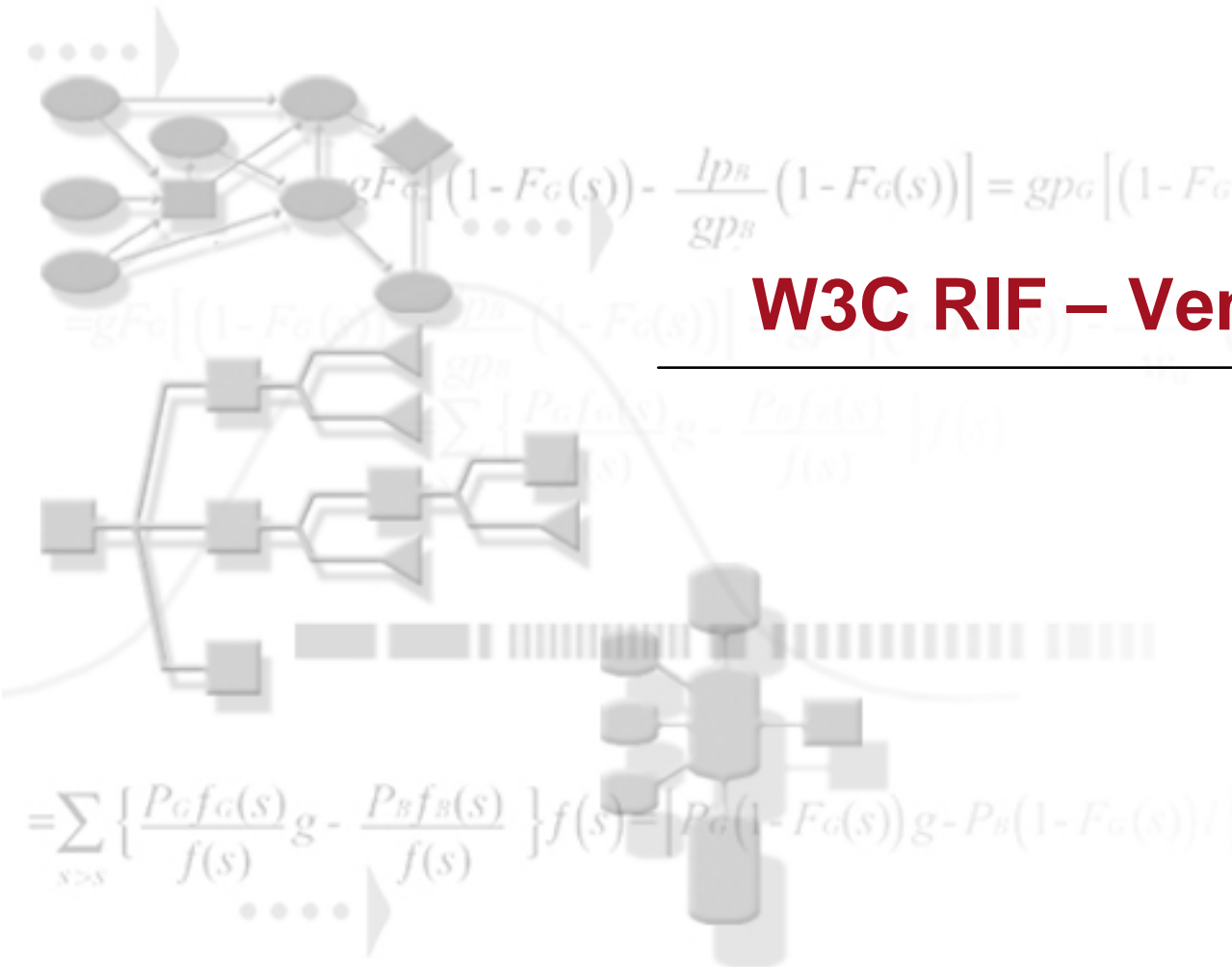


# W3C RIF – Vendor Use Cases

Meeting #1, 8-9 Dec 05

Paul Vincent  
 Fair Isaac Blaze Advisor  
 Fair Isaac

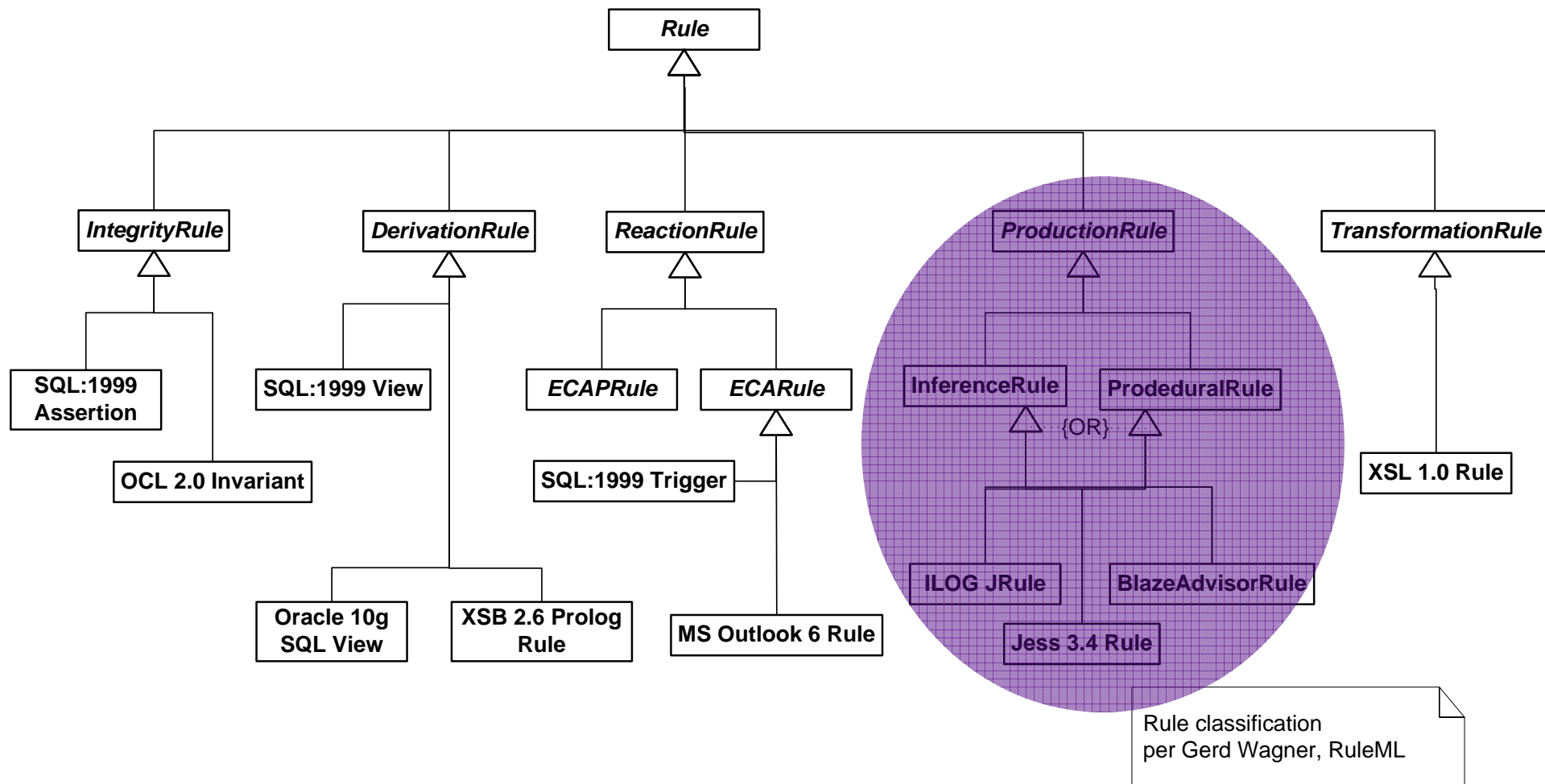


## Possible classifications...

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- ▶ Rule
  - ▶ Production
  - ▶ Constraint
  - ▶ Data / vocabulary relationship
  - ▶ Business (statement – no execution context)
  - ▶ ???
- ▶ Interchange
  - ▶ A to B = 1 way
  - ▶ A to B + B to A = 1 way and return
  - ▶ Any to A = Receive from any
  - ▶ Any to Any = Multi-broadcast
- ▶ Format
  - ▶ ... leading to language (at some point) eg RuleML etc

# Context: rule types ...



## Use Case #1: Change PR Rule Engine

- ▶ Scenario: User determines they want to switch from rule engine A to rule engine B
- ▶ Case: rules migration between vendors (usually engine vendors)
- ▶ Example: start project with vendor A, decide need performance / management / price advantages from vendor B, transfer\* 20K rules to new vendor environment while retaining as much information as possible
- ▶ Web aspects: Not usually applicable, but for example the data representation which the rules execute against could be XML
- ▶ Interchange: usually 1-way, 1-time, design-time
  - ▶ Could also be handled by PRR OCL\* eg using XMI

R = PR  
I = A to B

\* OMG also investigating Rule Mgmt std for authoring aspects

# Use Case #1: Analysis

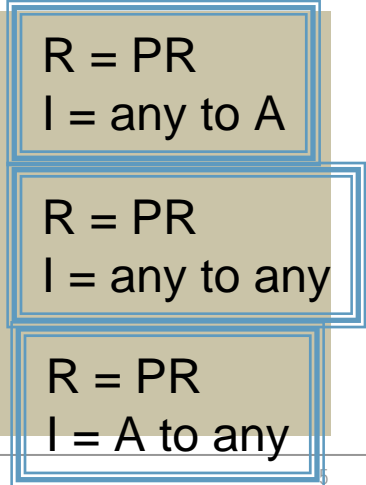
- ▶ Success Factors:
  - ▶ What % of rules could be covered by RIF
  - ▶ Verification and validation of the rules target vs host
  - ▶ Only relevant for “same class of platform” ?  
eg from 1 Rete engine to another  
eg from 1 CL compliant system to another
    - ▶ Interchange across rule system platforms:  
what is the business benefit ?

Effectively this is the same case as

**a – Ilog “rule interchange between partners”**

**b – IRS supplies rules representing Form 1040  
to anyone interested in executing them**

**b – User deploys rules on a different environment to that  
assumed by authoring environment**



## Use Case #2: Realtime contract exchange

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- ▶ Scenario: SystemA communicates rules to SystemB for execution
- ▶ Case: supplychain / SLA / contract exchange  
[CA ISO, ACORD/THG, ...]
- ▶ Example:
  1. RFP includes fulfillment rules and these are interpreted by a supplier to identify if the order can be fulfilled
  2. PO is placed and fulfillment rules apply
- ▶ Web aspects: Message is communicated over web + web service for accepting RFPs
- ▶ Interchange: real-time; rules are executable

R = PR  
I = any to any

## Use Case #2: Analysis

- ▶ Success Factors:
  - ▶ Coverage of contract rules?
  - ▶ Runtime cost (speed) of mapping RIF to execution engine format

Effectively this is the same case as

**a – REVERSE “e-commerce”**

**b – ACORD/SPX: insurance P&C schema  
+ schema extension mechanism  
+ rule extensions (using XPATH) for data interdependencies  
cf RosettaNet etc**

R = PR  
I = any to any

R = PR  
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## Use Case #3: Government take-up of BRE

- ▶ Scenario: Govt can only / prefers to utilize COTS s/w that complies with vendor-neutral standards
- ▶ Case: IT project to test regulation compliance against US corporation-supplied data; hardcoded rules in 3GL as “BREs are vendor-specific”
- ▶ Web aspects: W3C standards are (considered) vendor-neutral
- ▶ Interchange: theoretical only!

R = PR  
I = N/A





## Use Case #3: Analysis

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- ▶ Success Factors:
  - ▶ Exists!

**Effectively this is the same case as #1  
[Nor Govt]**