MARS

information services

WMB within Mars

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Business & Application Integration

MARS information services

Agenda

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- WMB versions
- Integration scenarios using WMB
- Architecture
- HA / Load Balancing
- Future usage
- Pros & Cons

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WMB versions

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- MQ version 7.0.1
- WMB version 7 SP3: used for all the internal mappings
- WMB version 8 SP1: used for SAP integration

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Integration scenarios
File to File

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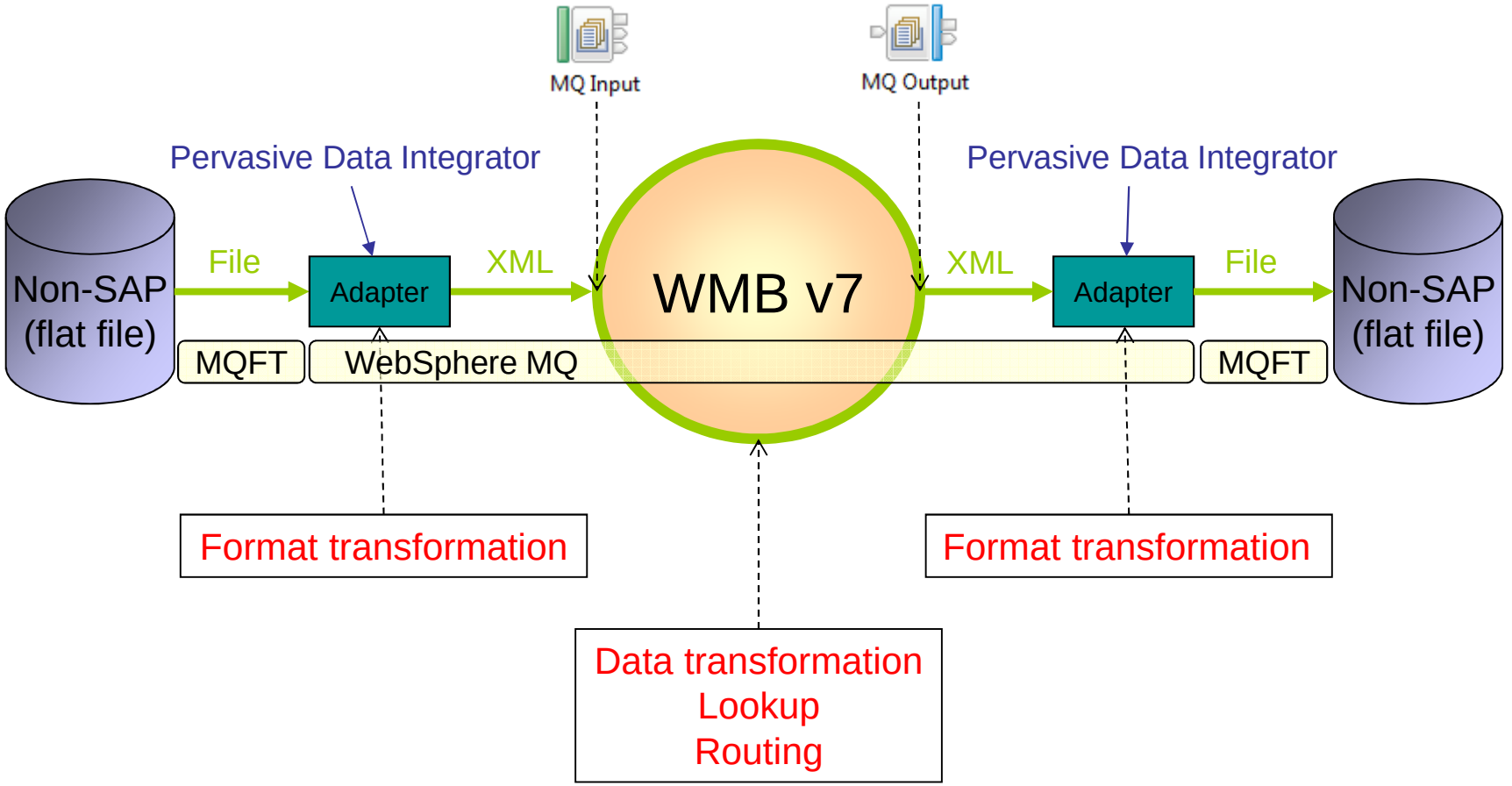

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Integration scenarios
File to SAP

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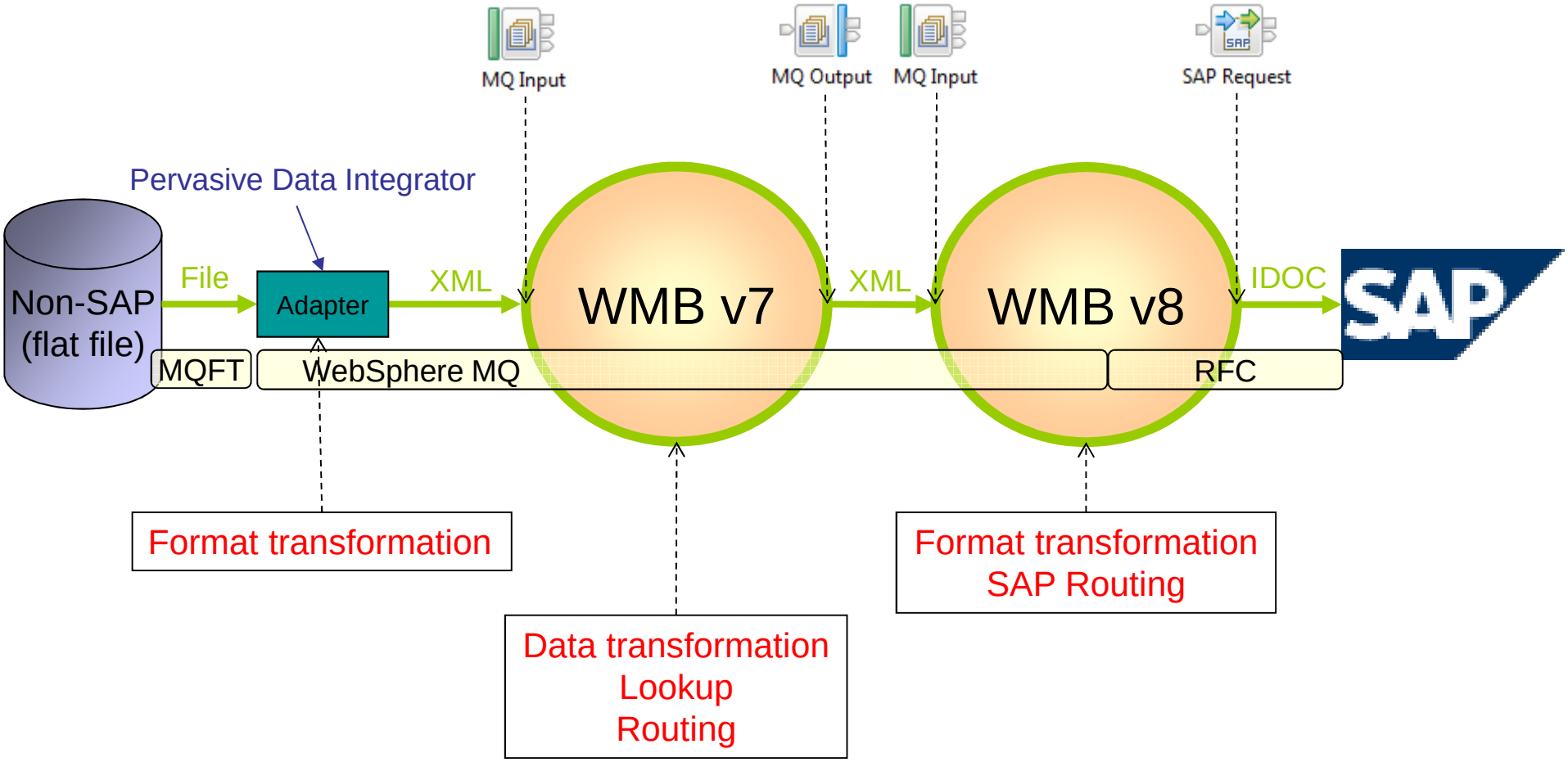

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Integration scenarios
SAP to File

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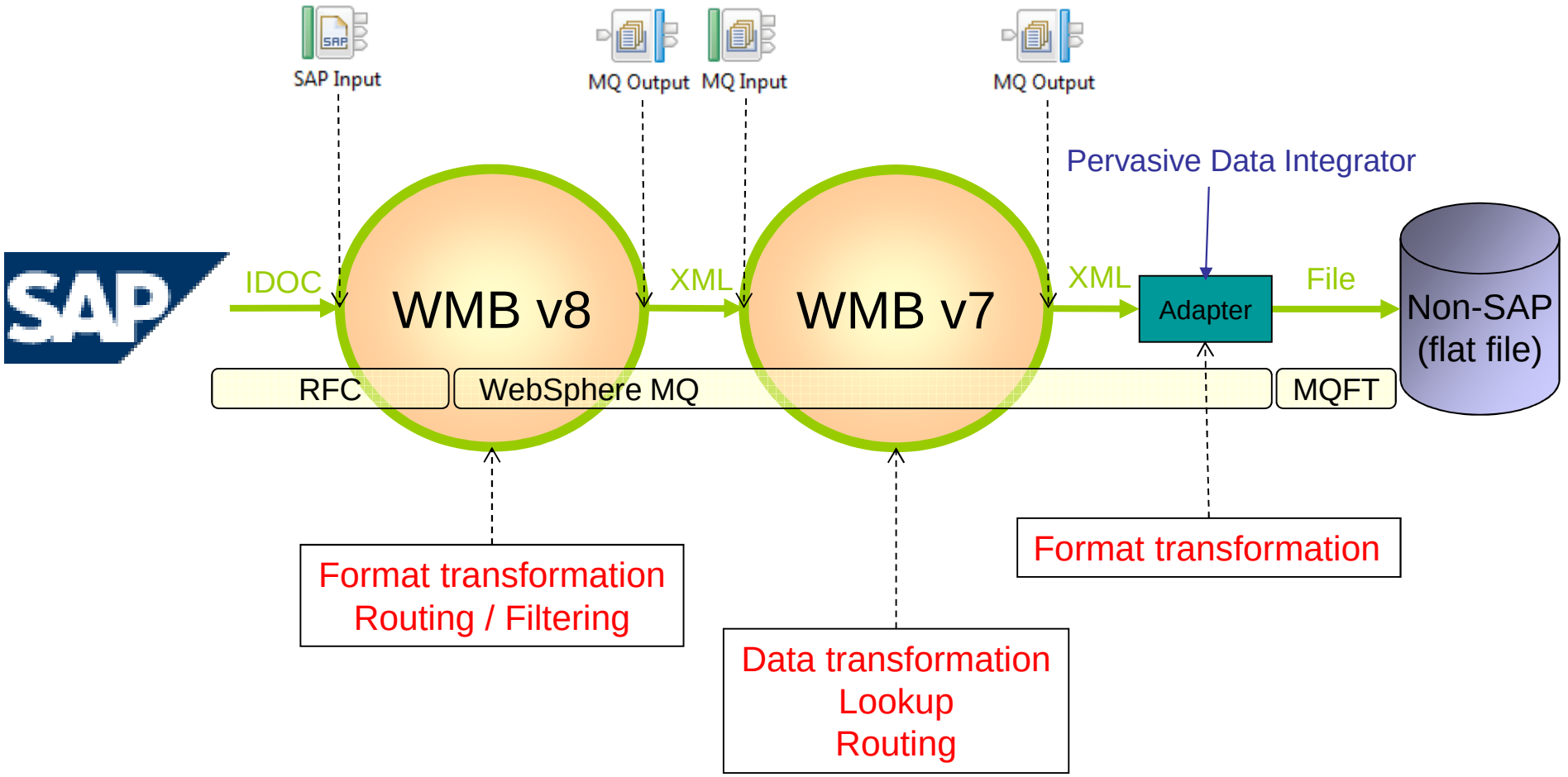

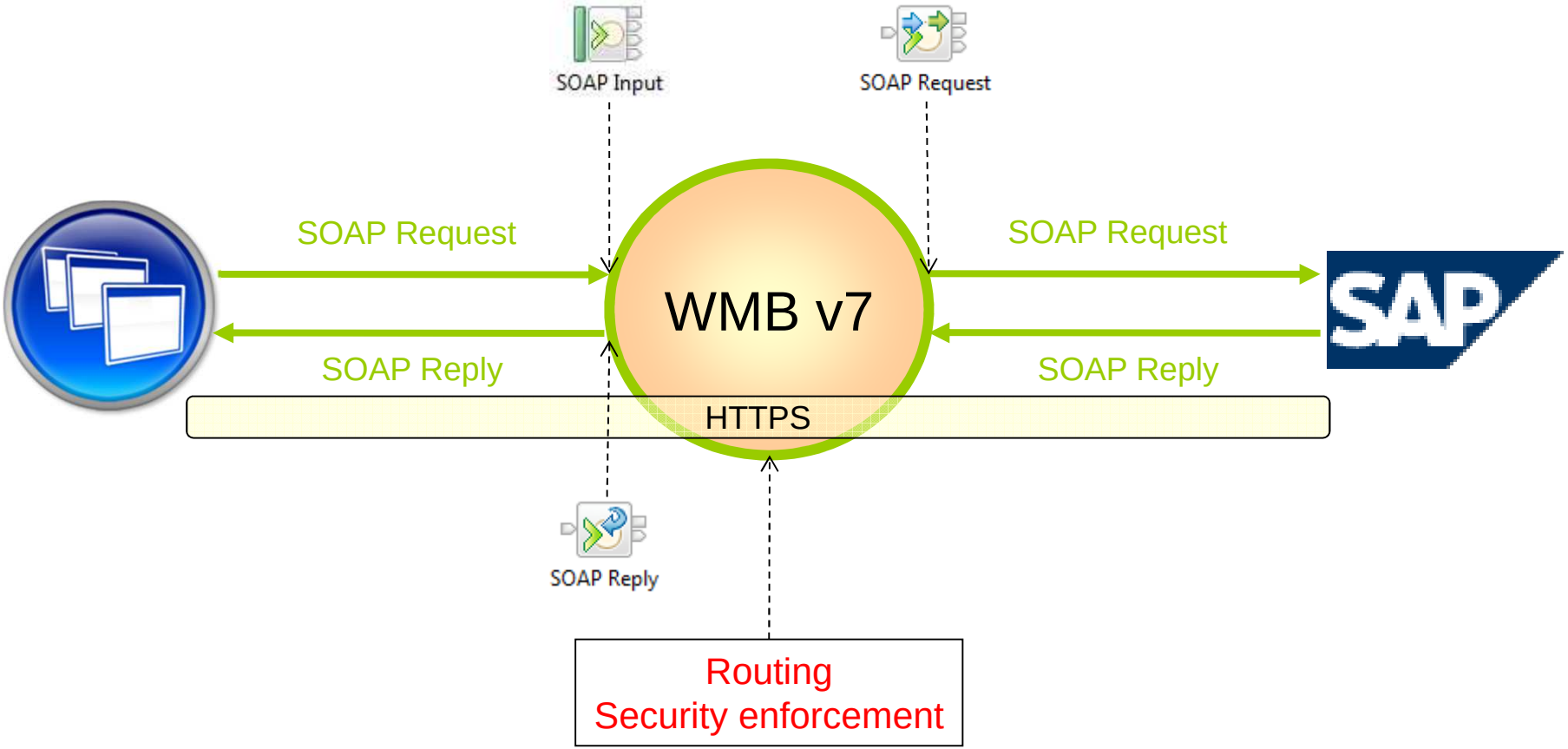
SOAP Input
SOAP Request
SOAP Request
SOAP Request
WMB v7
SOAP Reply
SOAP Reply
HTTPS
SOAP Reply
Routing
Security enforcement

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Architecture overview

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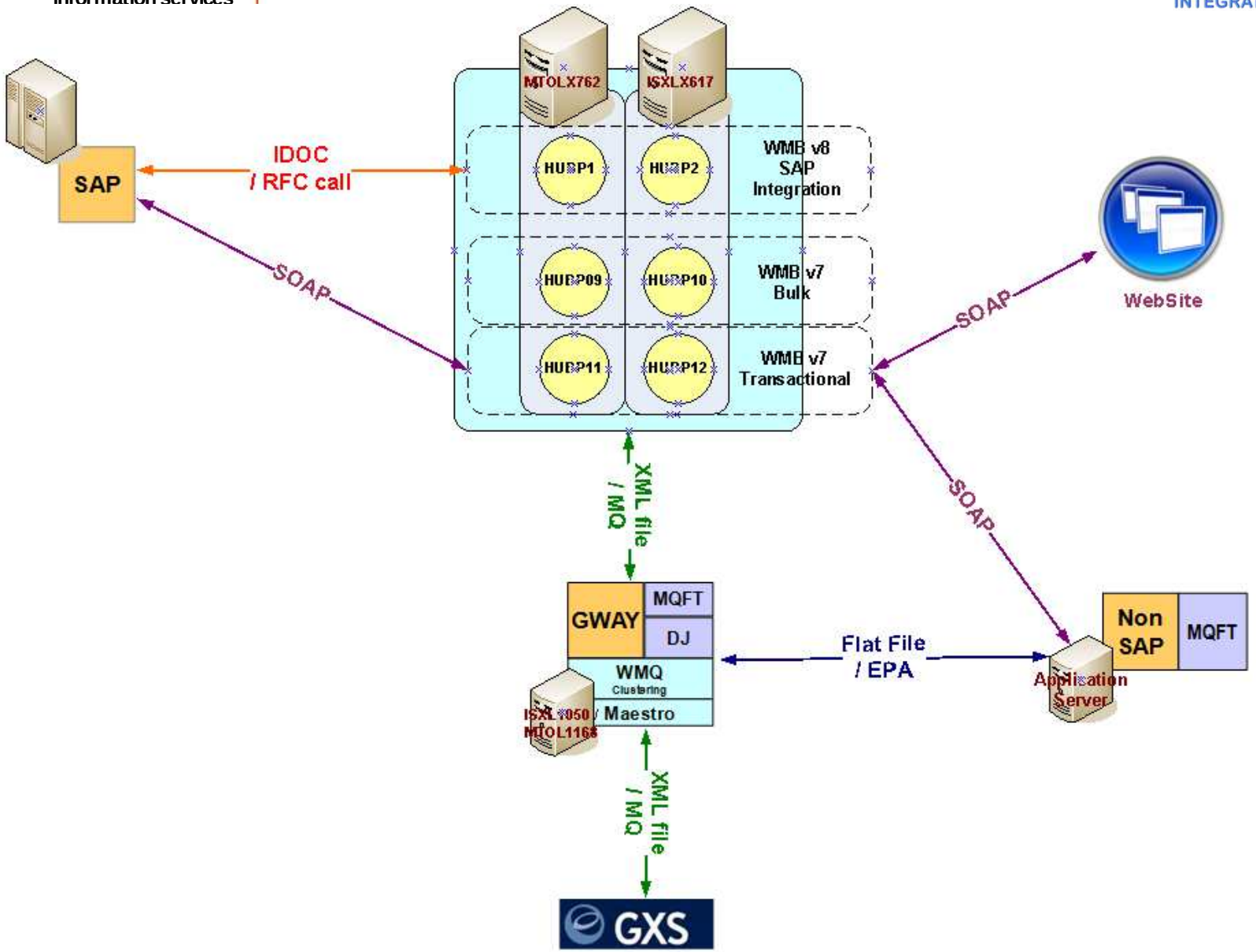

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HA / Load Balancing

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- 2 broker servers
  - One in each of our Data Center
  - Servers / Instances are identical
  - Active / Active mode
- MQ connectivity:
  - MQ Cluster
- SAP (IDOCs / RFC):
  - SAP Adapter load-balancing
- SOAP:
  - DNS balancing using Cisco GSS entries

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Future usage

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- Replacement of MQFT / Pervasive Data Integrator with IBM WebSphere MQ FTE & direct integration in WMB (through FTE nodes)
- Mobile integration through Web Services (SOAP) or REST / HTTPS
- Extend integration to the Cloud through WMB & WebSphere Cast Iron

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- Product very powerful & flexible (can do almost what ever we want to manipulate the data)
- Now a lot of possible connectivity: MQ, SAP, SOAP, HTTP(S), File…
- Product very efficient, robust and resilient
- Possible to use / customize patterns to automate developments

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Challenges

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- Migration from Legacy systems (SAP XI, Pervasive Data Integrator…) to WMB
- Monitoring: nothing by default with the product

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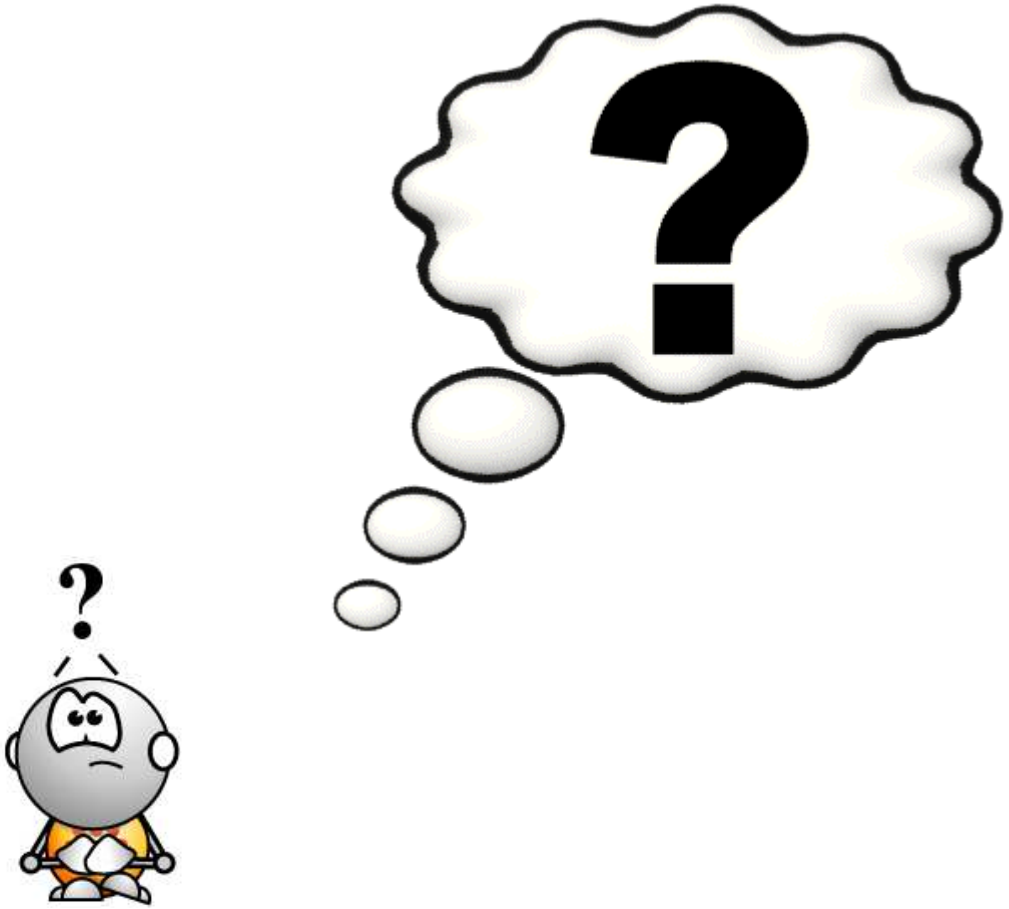
Questions

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