

**WEBSPHERE USER GROUP**  
**30<sup>TH</sup> MARCH 2017**

**W3PARTNERSHIP**  
**PATTERN INTEGRATION CAPABILITY**

**GRAHAM WOODS**  
**INTEGRATION ARCHITECT**

- × Consultancy established for 10 years
- × Specialise solely in Digital IT Integration
- × Established IBM Business Partner

- ✘ Consultancy to provide an integration capability to clients own specification.
- ✘ W3P Integration Platform, on client premises.
- ✘ W3P Integration Platform, in the Cloud
- ✘ B2B Capability using IBM DataPower appliances
- ✘ API Development using IBM API Connect

- × What does it do?
- × How does it do it?
- × How is it used?
- × Have we done this before?
- × How much does it cost?
- × Can you use it in your current IT estate?

# W3P Integration Platform

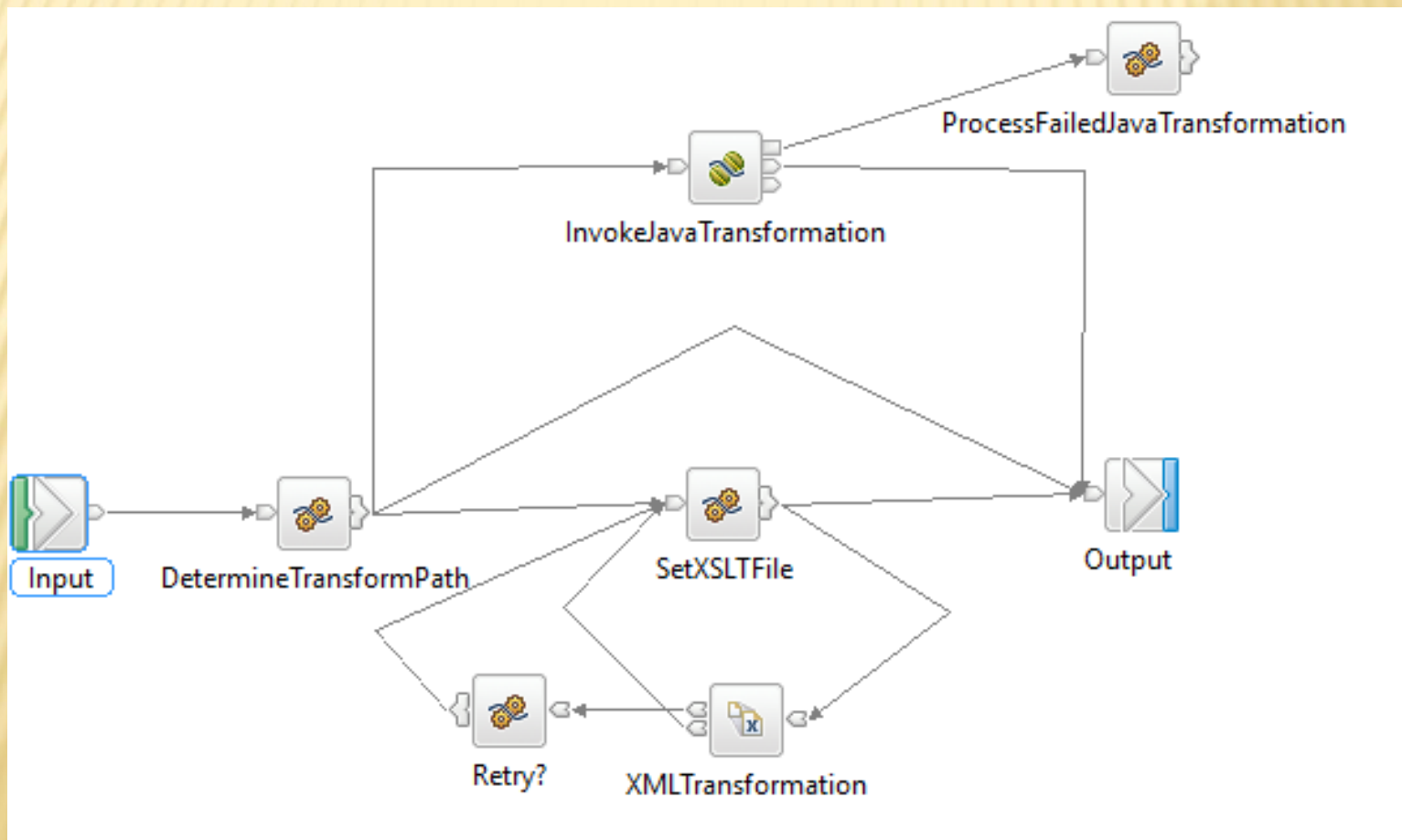
## What does it do?

- ✘ Packaged solution, built using IIB & MQ, comprising standard integration patterns of behaviour built into the Integration Platform
  - Assured Delivery
  - Request / Response
  - Distributed Assured Delivery (pub / sub)
- ✘ A number of lightweight transport adapters are included within the build
  - Allows for any inbound or outbound transport to/from the Integration Platform

### Common Technical Services - the building blocks

- ✘ Configuration – to control the process functions
- ✘ Authorisation – is the requester authorised to use the service?
- ✘ Validation – is the data in expected format?
- ✘ Transformation – to any format of output
- ✘ Routing – to the correct consumer
- ✘ Logging – record the transaction processing
- ✘ Audit – record input data content
- ✘ Performance Measurement
- ✘ Exception Handling – in a consistent fashion

### CTS - Transformation

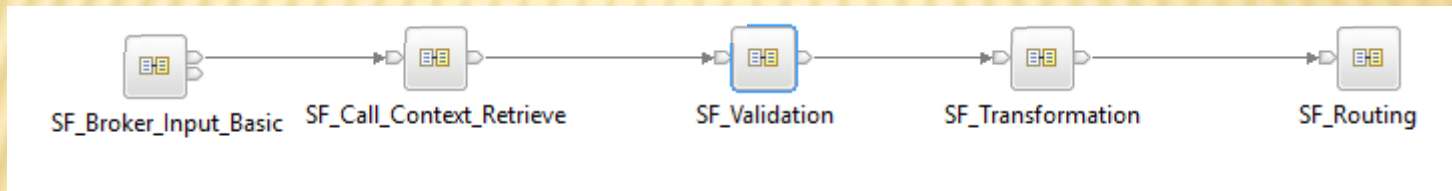
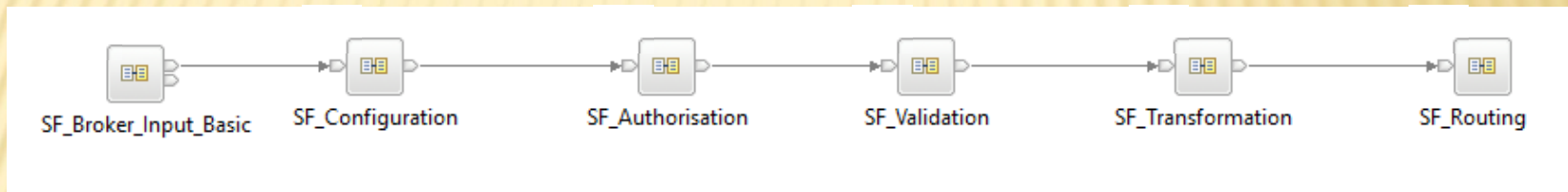


## Pattern Framework

- ✘ Each pattern fulfils an architectural Pattern of Behaviour
  - Request/Response – synchronously share data with another application or service and ensure consistency
  - Assured Delivery – assured delivery of data to another application or service (asynchronous)
  - Publish and Subscribe – publish data to zero, one or many applications or services, based on subscription
- ✘ Other patterns of behaviour
  - Sequence of calls (Orchestration) – can be used to enrich or look up data during a service call or return data from multiple systems



### Request/Response Pattern



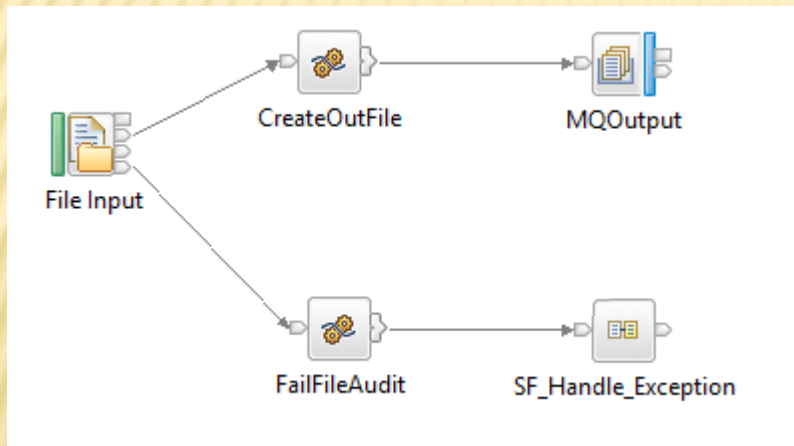
### Adapter Framework – any transport, any time

- ✘ Extensive adapter framework allows for data to be delivered or received over any transport protocol
- ✘ Conversion between different protocols – e.g. File, FTP, HTTP, REST, JMS, MQ, etc.
- ✘ Simple connection to application specific connectors and adapters
- ✘ Support for SOAP / REST / JSON services

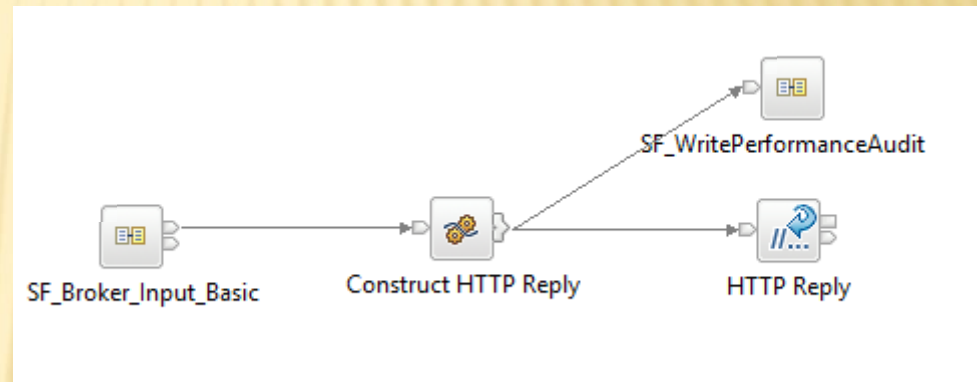
# W3P Integration Platform

## How does it do it?

### Inbound Adapter File To Queue

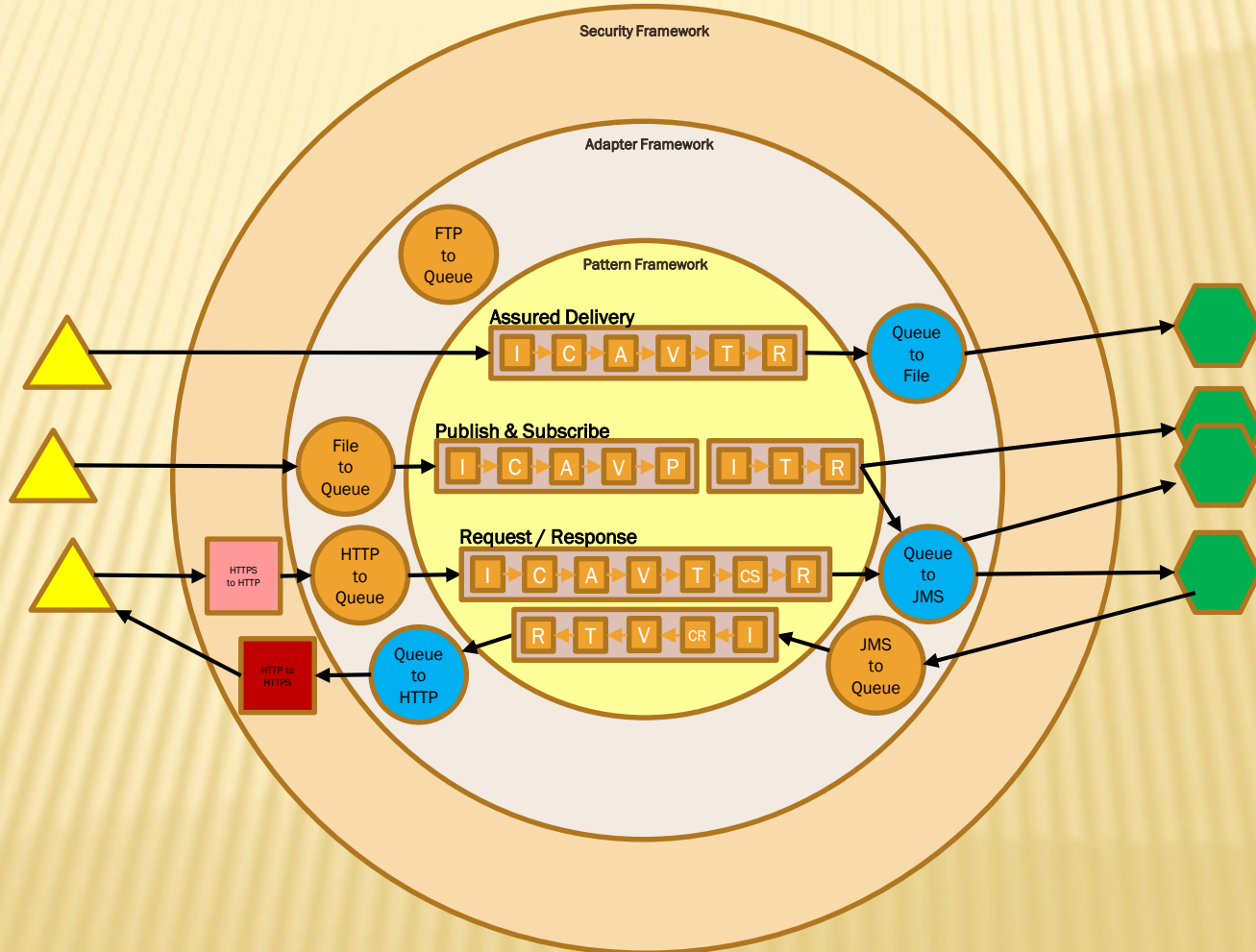


### Outbound Adapter Queue to HTTP Reply



# W3P Integration Platform

## How does it do it?



## Service Instantiation

Only a few artefacts required – per Service

- ✘ **Validation:** schema(s) required if the input data is to be validated
  - XSD for validation of XML-formatted data
  - JSON Schema for validation of JSON-formatted data
  - CSVS for validation of CSV-formatted data
  
- ✘ **Transformation:** mapping artefact required to transform the input data to the required output format
  - Normally done via XSLT
  - Can be done via a Java class
  - Amended dynamically to avoid outage
  
- ✘ **Configuration:** “properties data” to control processing functions

# W3P Integration Platform

Have we done this before?



# W3P Integration Platform

## Can I use it in my current estate?

- ✘ Simple answer – YES!
  - On premise server / VM requirements
  - Sufficient database & storage requirements
  - Software installation & configuration
- ✘ Or you can use it in the Cloud:
  - No internal hardware requirements
  - Security layer required
  - Data encryption
  - Possible to have as a managed service
- ✘ Or a hybrid combination of the above:
  - Often non-Production environments are on premise

# W3P Integration Platform Package Pricing

- ✘ W3PIP packaged solution includes :-
  - All License costs.
  - W3Partnership consultancy to
    - ❖ Install IBM MQ and configure accordingly
    - ❖ Install IBM IIB and configure accordingly
    - ❖ Install the Integration Platform and make operational
  - Silver level support, covering normal business hours
  
- ✘ Extras include:
  - Containerisation – i.e. wrapping the product via Chef and Jenkins or similar for purposes of Continuous Integration / Continuous Delivery (CI/CD)
  - Source Control – adding source control capability (i.e. GitHub, Nexus, etc.)
  - Monitoring capability (nJAMS, New Relic, etc.)
  - Gold or Platinum level support
  - Service Management



