



| z/TPF V1.1

## 2013 TPF Users Group

Title: Business Events Futures

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## Review: what is a business event?

- **An event is an item of significance that has occurred in the system that is usually related to a business process.**
- **A Business Event consists of:**
  - Trigger
  - Data gathering and enrichment
  - Data formatting
  - Data transmission
- **Example**
  - Trigger: a flight delay or cancellation
  - Data gathering: obtain manifest of passengers on the flight
  - Action: send data to software that re-accommodates passengers onto another flight

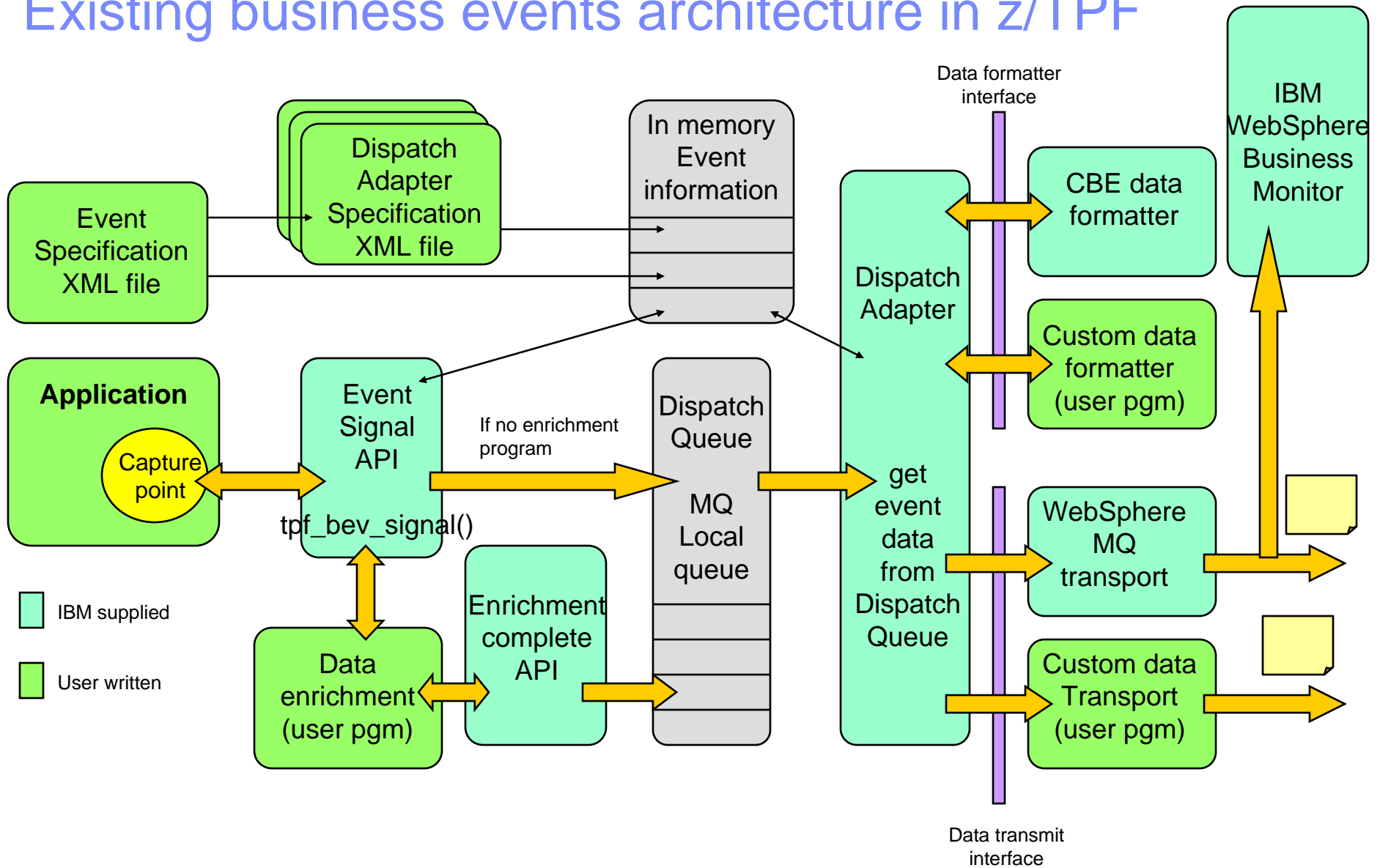
## Review: what is the value of a business event?

- **Send the right information to the right person at the right person.**
- **Facilitate real time observation of exceptional business behavior and notify the appropriate people or process**
- **Provide data for dashboard display of real time business service availability.**

## Current business event support

- **PJ39754 – Common Deployment**
- **PJ39759 – Websphere Business Events on z/TPF**

# Existing business events architecture in z/TPF



## Future error handling

- **Initial business events support recognizes 13 errors**
  - Error counter is stroked for either a business event or a Dispatch Adapter.
  - Can automatically undeploy a dispatch adapter if too many errors happen within one minute.
    - ZBEVF SET MAXERRORS
- **Concept: messages will be sent or SERRCs taken for these 13 errors.**
  - Only one message will be sent per minute per business event or dispatch adapter
    - Avoid too many messages going to the console.
  - Only one SERRC taken per minute per business event or dispatch adapter.
  - Error counts will continue to be incremented.

## Future error handling

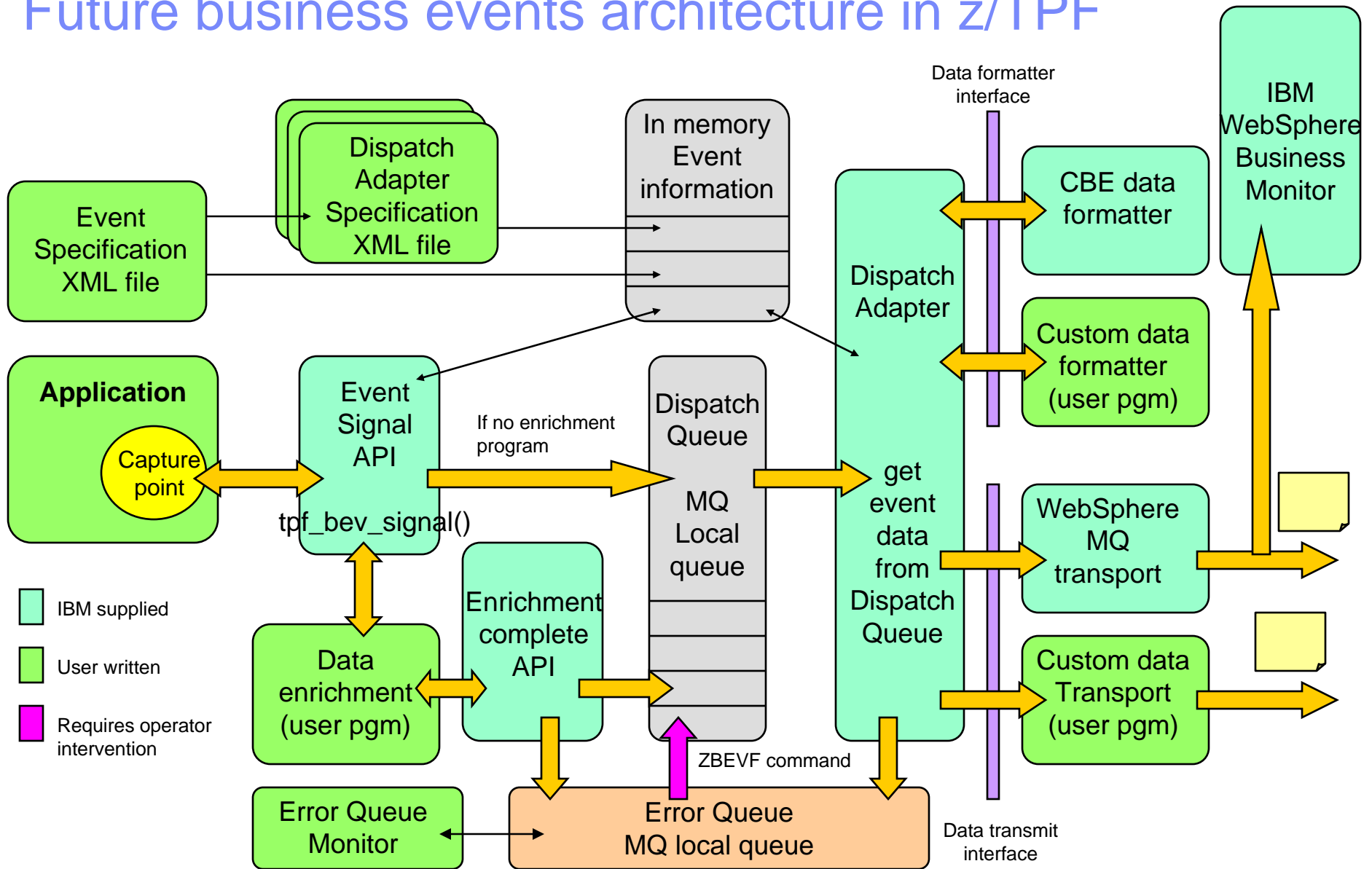
- **Concept: error queue**
  - Optional local MQ queue.
  - Defined in the business events specification XML file.
  - If error is encountered when processing business event data and the error queue is defined, the data is added to the MQ queue.
  - Expiry
    - Specify an expiry time for the MQ error queue definition.
    - Or, use expiry time that is defined for the business event.
  - Persistent
    - Specify YES, NO, or USE\_EVENT\_DEFINITION for the MQ error queue definition.

## Future error handling

- **Concept: error queue**
  - ZBEVF option to move business event data from the error queue to the dispatch queue.
    - Use when the error is corrected in order to process the business event data that is on the error queue.
  - Users responsibility to clean up the MQ error queue.
  - If MQ error queue is defined, the user should write a monitor.
- **Benefit of error queue**
  - Event data is not lost.
  - Ability to re-drive event data when problem is corrected.
  - On a test system can re-drive event data in order to diagnosis problem or verify that problem has been corrected.



# Future business events architecture in z/TPF



## Future data collection

- **Concept: Report usage rates for**
  - Business Events
  - Dispatch Adapters
- **System collector to get this information.**
- **Continuous data collection to get this information.**
  - Use Tivoli Monitoring Agent to data

## PJ41069 - Early release of structure changes

- **Changes to structures will be required for new function**
  - Requires TLDR load and IPL to implement programs that need to be recompiled.
- **Early release intended to be implemented with maintenance before new business event function is released.**
  - If this happens, new function can be implemented with OLDR load.

## z/TPF capability to consider: Owners

## Owners

- **Provides ability to identify who is using TPF resources**
- **Expect to produce more information based on owner name**
- **Owner name is 32 bytes of printable characters**
  - High level qualifier is first 8 bytes
  - Mid level qualifier is next 8 bytes
  - Low level qualifier is last 16 bytes
- **Recommend to register application ECBs to an owner**
  - If Ull is still used, register the ECB using the input message
  - If web service is used, register the ECB using the name of the web service
  - Maybe include origin of ECB (e.g. LNIATA from EBROUT) for Mid level qualifier
- **To register ECB to an owner use:**
  - EOWNRC
  - tpf\_eownrc()

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