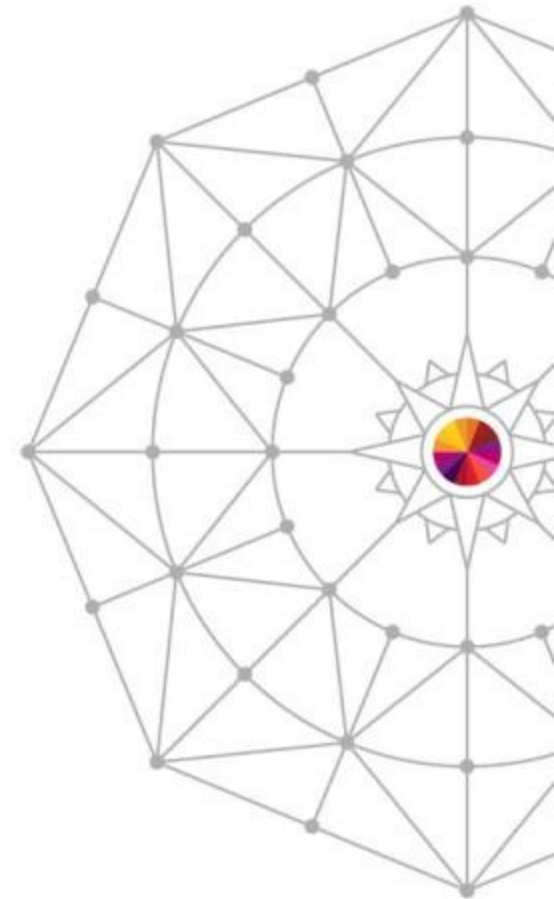


Unlocking Data on z/TPF: The Future of Business Events

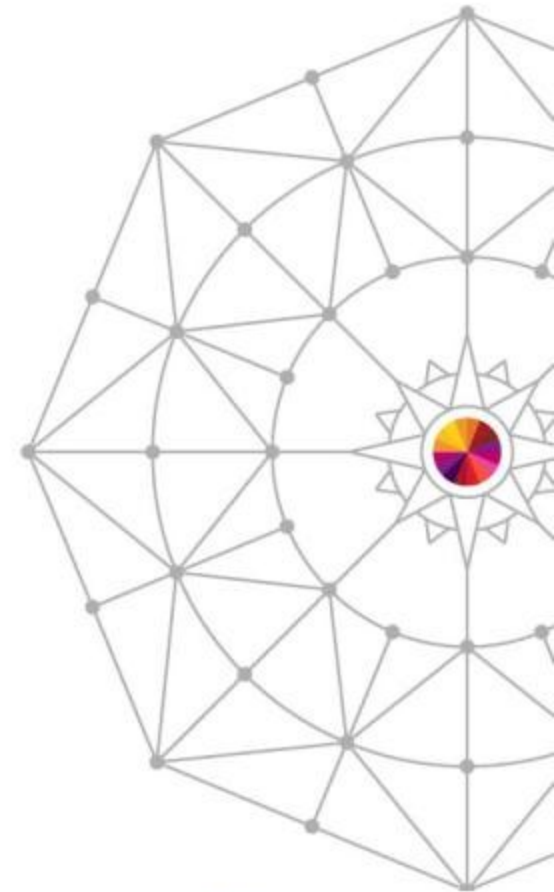
Bob Dryfoos
TPF Development Lab

Main Tent
March 10, 2014



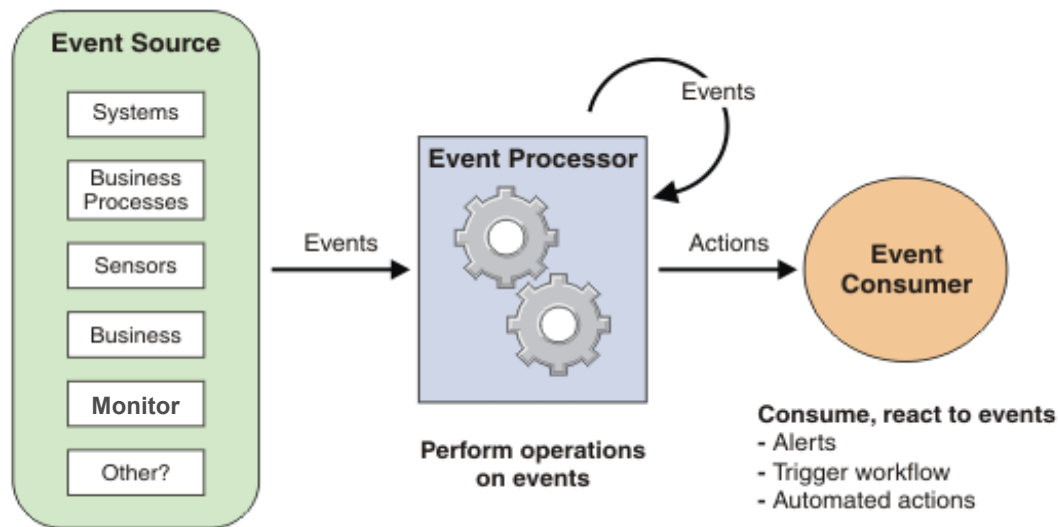
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Event processing architecture

An event is anything that happens that is significant to a system.



Event processing consists of:

- Event capture
- Data enrichment
- Formatting and emission
- Routing and further processing of emitted events
- Consumption of processed events

z/TPF Business Events

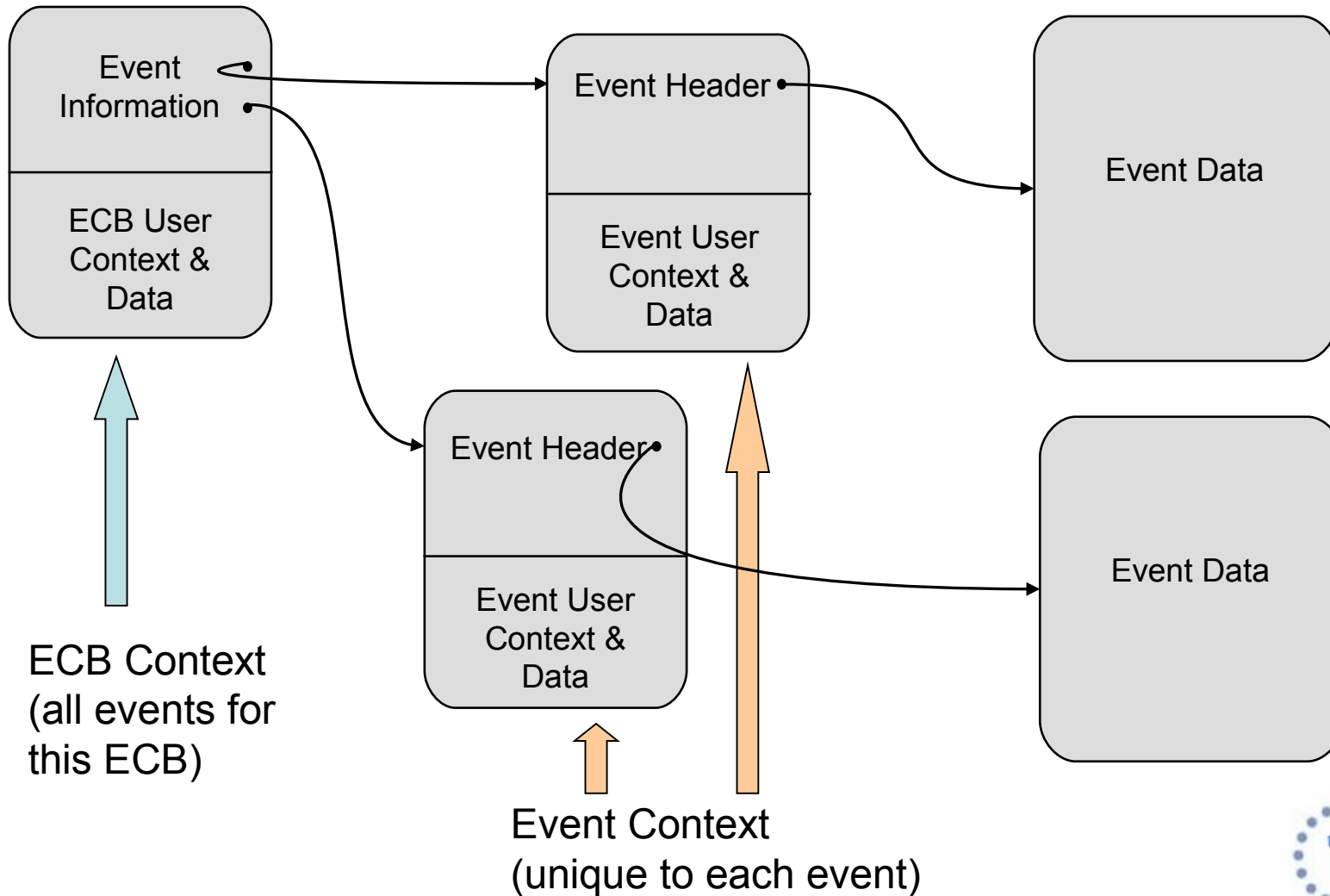
- signal event
 - Triggered (signaled) when an application explicitly calls an event API
 - tpf_bev_signal()
 - formerly known as a “business event”
- data event
 - Triggered conditionally when data is updated on z/TPF
 - z/TPFDF databases
 - Only changed LRECs
 - Full subfile
 - Traditional z/TPF databases (FIND/FILE)
 - Individual records
 - Full record chain (standard forward chain)



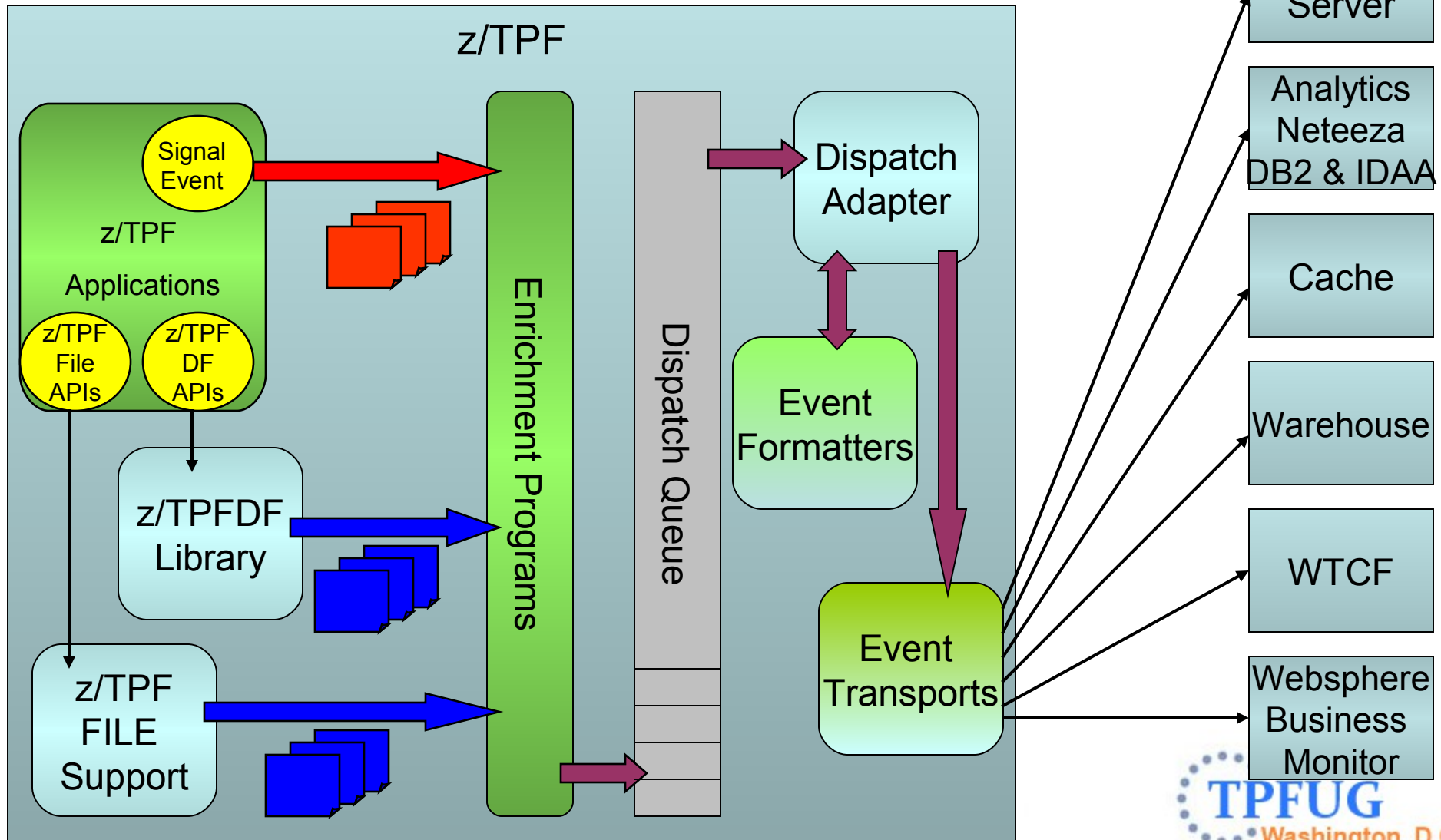
Data Event Trigger Conditions

- No conditions are specified for the data event
 - Data event is automatically dispatched
 - All updates are needed by event consumers
- If a data event specifies conditions
 - Data event is dispatched only if conditions are met
 - Only some updates are needed by event consumers
 - Example:
 - Only want availability counts refreshed at certain levels
 - If LREC ID == x'80' AND
 - availCount == 50 OR availCount == 20 OR
 - availCount == 10 OR availCount <= 5

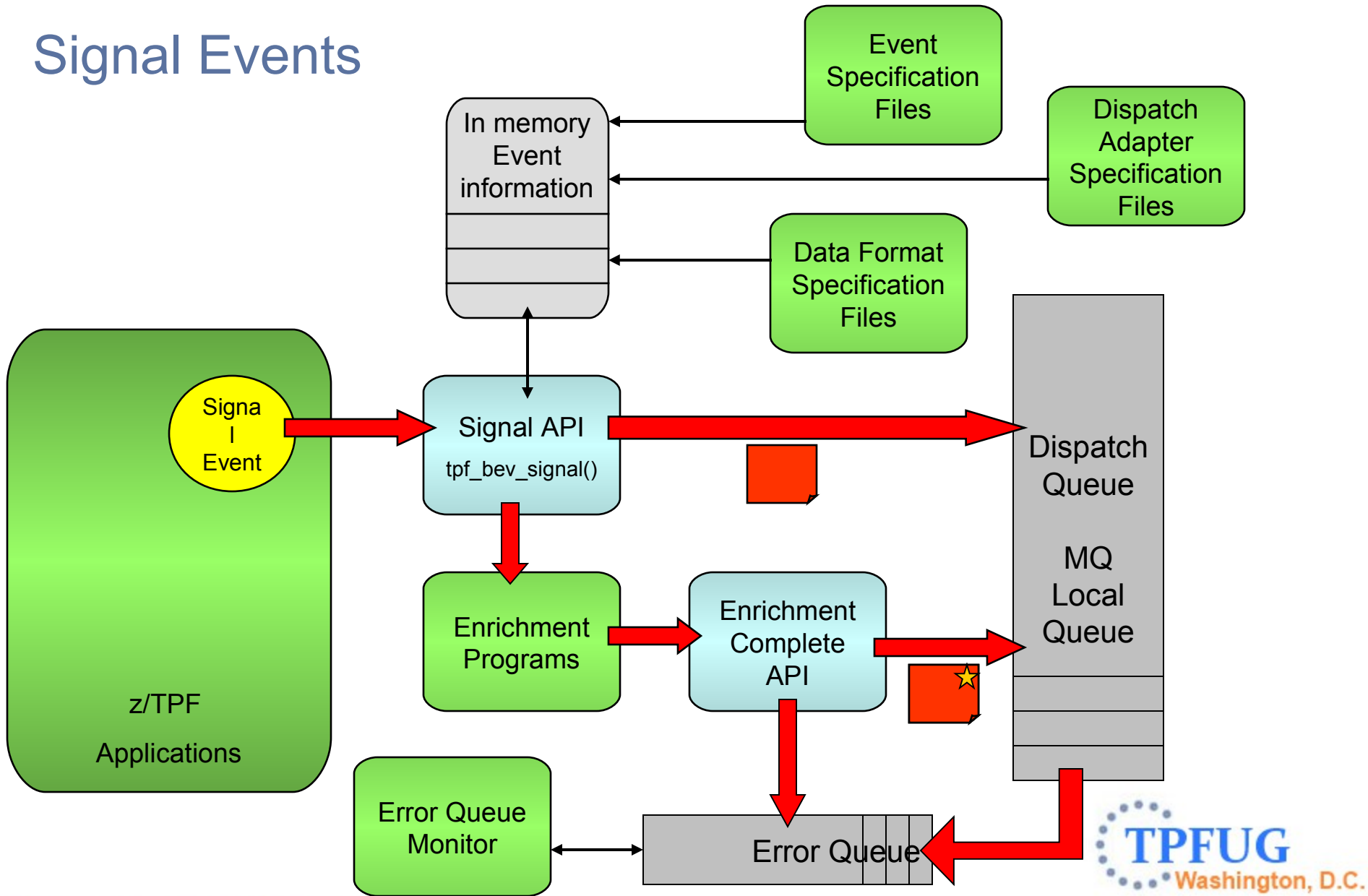
Business Event User Context



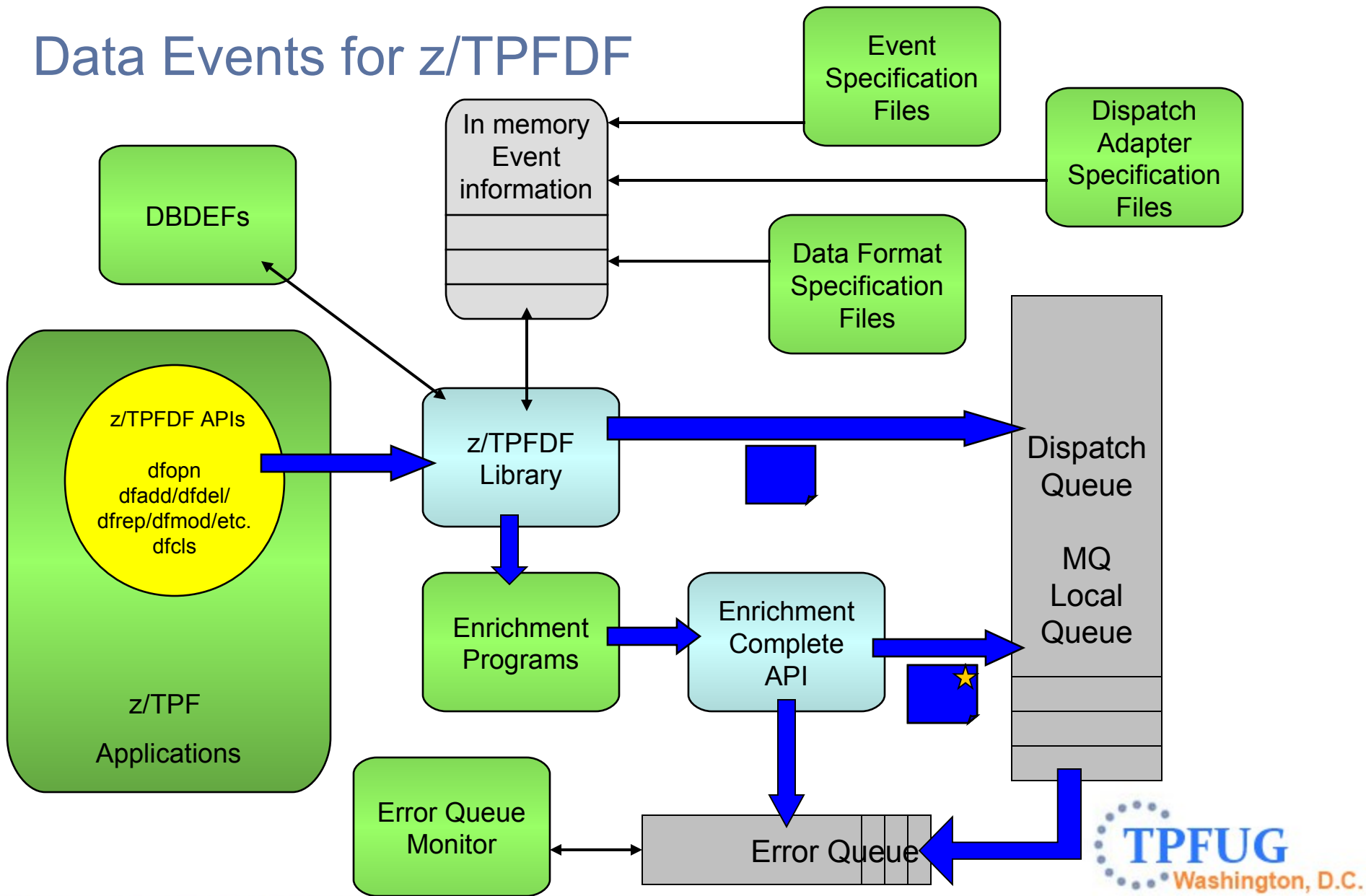
z/TPF Event Architecture



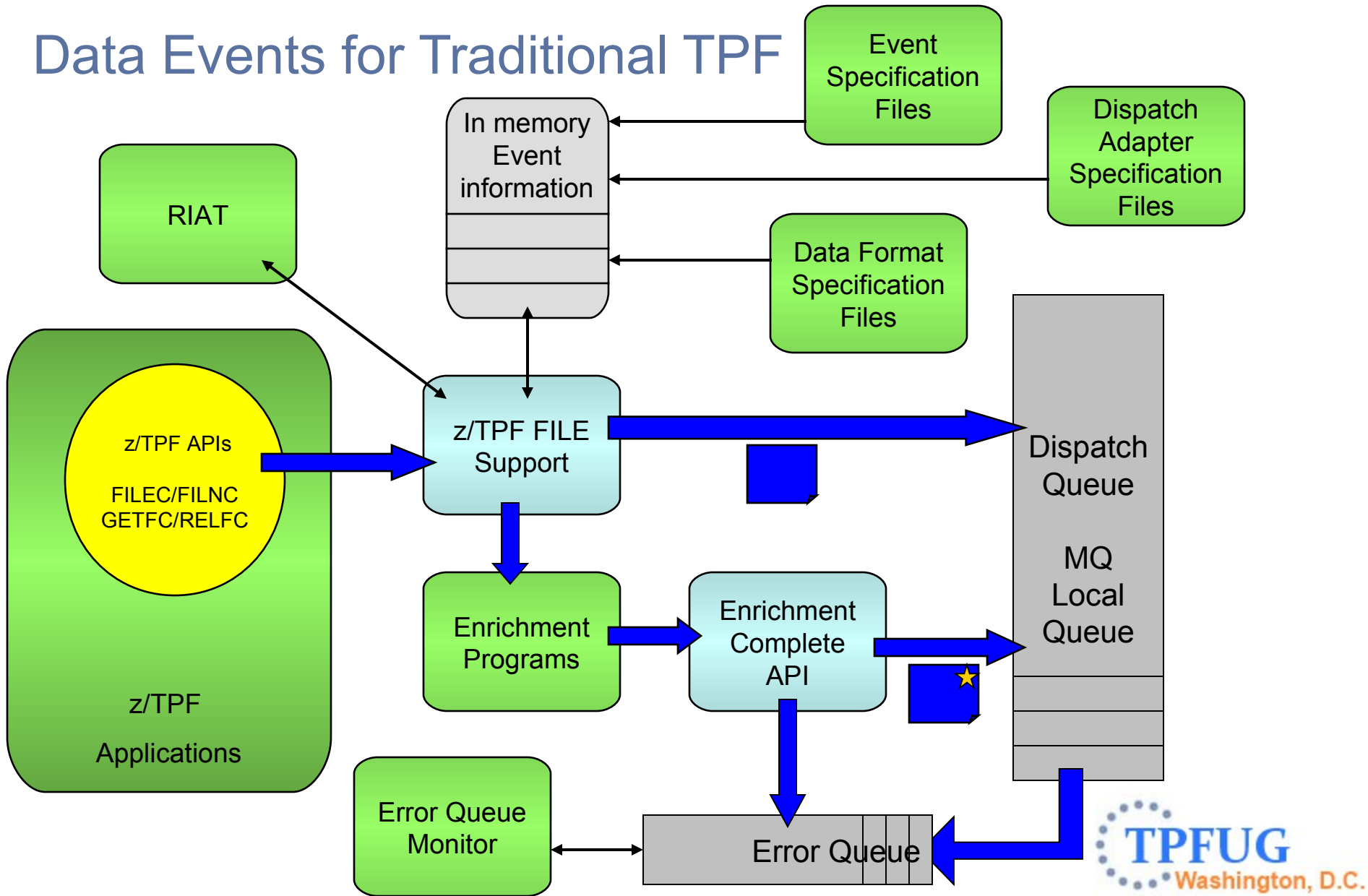
Signal Events



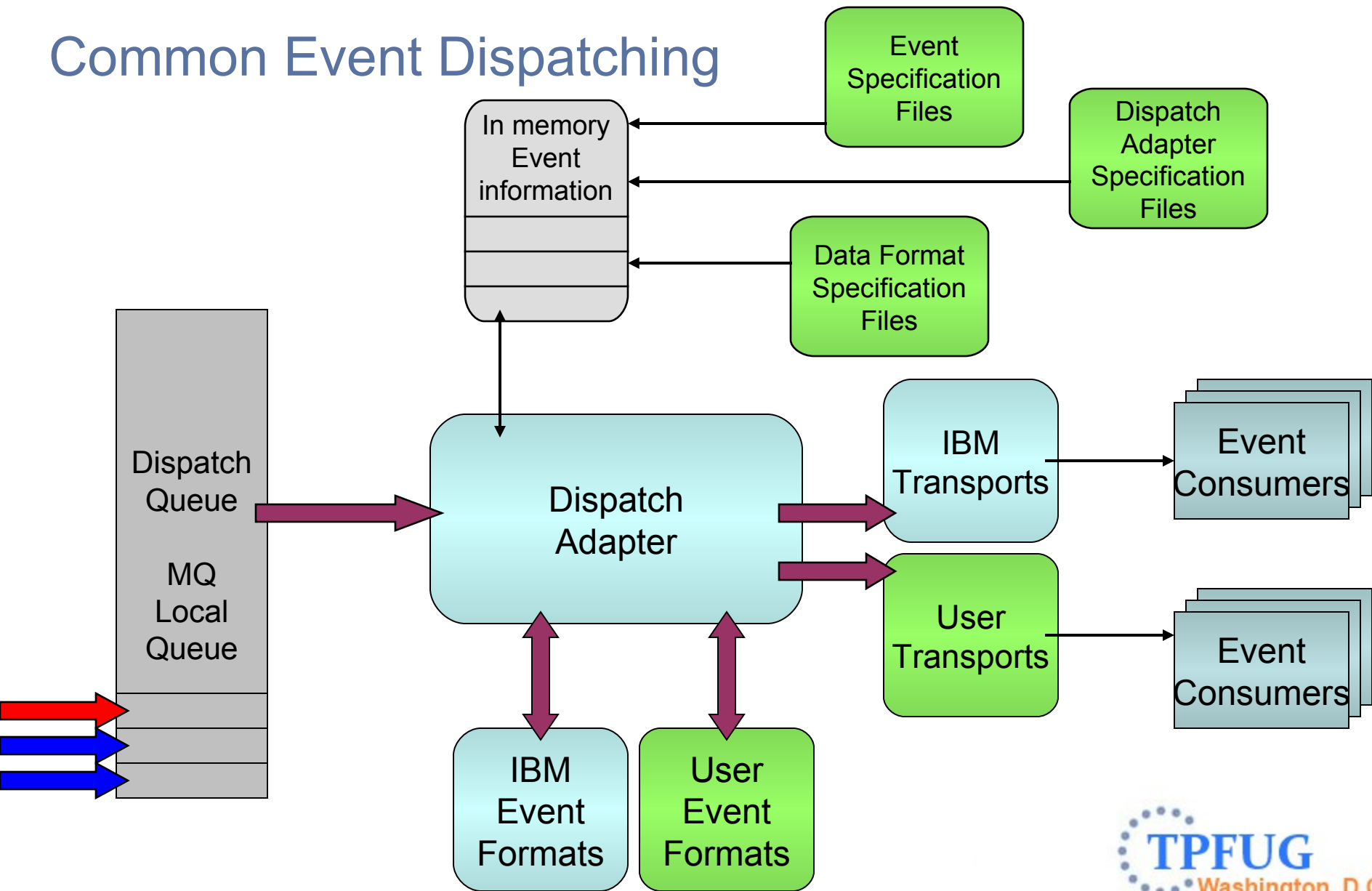
Data Events for z/TPFDF



Data Events for Traditional TPF



Common Event Dispatching



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Notes

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