

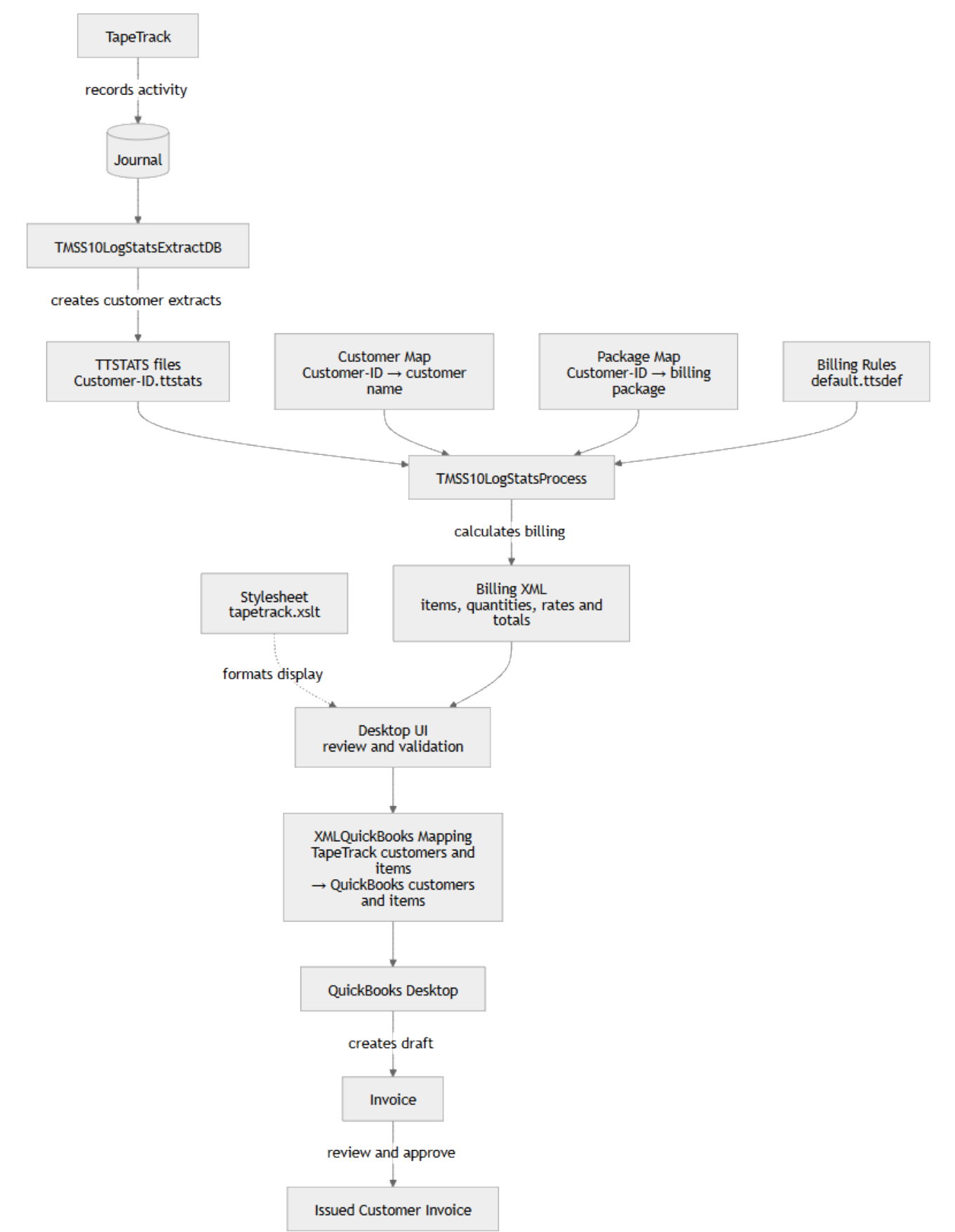
# Billing Component Flow Chart

## TapeTrack Billing Overview Flow Chart



| Stage                | Component                                                | Input                                                      | Process                                                                                                      | Output                                                              |
|----------------------|----------------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| Framework Server     | TapeTrack Framework Server and Journal                   | Tape movements, storage and other operational activity     | Records operational activity as Journal database entries.                                                    | Journal records available for extraction.                           |
| Extract              | TMSS10LogStatsExtractDB                                  | Journal records and the selected billing date range        | Extracts relevant Journal activity and separates the statistics by customer.                                 | Customer-specific Customer-ID.ttstats files.                        |
| Process              | TMSS10LogStatsProcess                                    | TTSTATS files, Customer Map, Package Map and Billing Rules | Identifies the customer, selects the billing package, applies the approved rates and calculates the charges. | Billing XML containing invoice items, quantities, rates and totals. |
| QuickBooks Invoicing | Desktop UI, XMLQuickBooks Mapping and QuickBooks Desktop | Approved Billing XML                                       | Maps TapeTrack customers and items to QuickBooks records and submits the invoice request.                    | Draft QuickBooks customer invoice ready for review and issue.       |

## TapeTrack Billing Full Flow Chart



| Component                  | Input                                            | Output or Purpose                                                |
|----------------------------|--------------------------------------------------|------------------------------------------------------------------|
| TapeTrack Framework Server | Tape movements, storage and operational activity | Records operational activity as entries in the Journal database. |

| Component                           | Input                                                         | Output or Purpose                                                                                                                              |
|-------------------------------------|---------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Journal</b>                      | Activity recorded by the TapeTrack Framework Server           | Stores the source records used to calculate movement, handling and storage charges.                                                            |
| <b>TMSS10LogStatsExtractDB</b>      | Journal database entries and the selected billing date range  | Extracts the relevant journal records and creates a separate TTSTATS file for each customer.                                                   |
| <b>Customer-ID.ttstats</b>          | Customer statistics extracted from the Journal                | Supplies the activity types and quantities processed during billing.                                                                           |
| <b>Customer Map</b>                 | TapeTrack Customer-ID                                         | Maps the Customer-ID to the customer name or external accounting identity used in the billing output.                                          |
| <b>Package Map</b>                  | TapeTrack Customer-ID                                         | Selects the billing package assigned to the customer.                                                                                          |
| <b>Billing Rules</b> default.ttsdef | Approved billing rates, calculations, rounding and conditions | Defines how TTSTATS quantities are converted into invoice items and charges.                                                                   |
| <b>TMSS10LogStatsProcess</b>        | TTSTATS file, Customer Map, Package Map and Billing Rules     | Applies the billing configuration and generates invoice-item XML containing customers, item codes, descriptions, quantities, rates and totals. |
| <b>Billing XML</b>                  | Output from TMSS10LogStatsProcess                             | Contains the calculated invoice items awaiting review and submission to QuickBooks.                                                            |
| <b>Stylesheet</b> tapetrack.xslt    | Billing XML                                                   | Controls how the XML is displayed in the Desktop UI. It does not calculate or modify charges.                                                  |
| <b>Desktop UI</b>                   | Billing XML and Stylesheet                                    | Displays the calculated billing information for review and submits approved invoice requests.                                                  |
| <b>XMLQuickBooks Mapping</b>        | Approved Billing XML                                          | Maps TapeTrack customer and item values to the corresponding QuickBooks customer and item records.                                             |
| <b>QuickBooks Desktop</b>           | Mapped invoice request from the Desktop UI                    | Creates the customer invoice in QuickBooks.                                                                                                    |
| <b>Invoice</b>                      | Customer, invoice items, quantities, rates and totals         | Provides the draft invoice that is reviewed, approved and issued to the customer.                                                              |

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