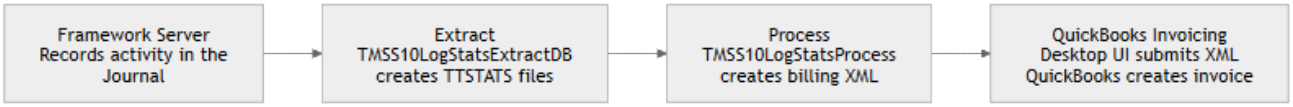
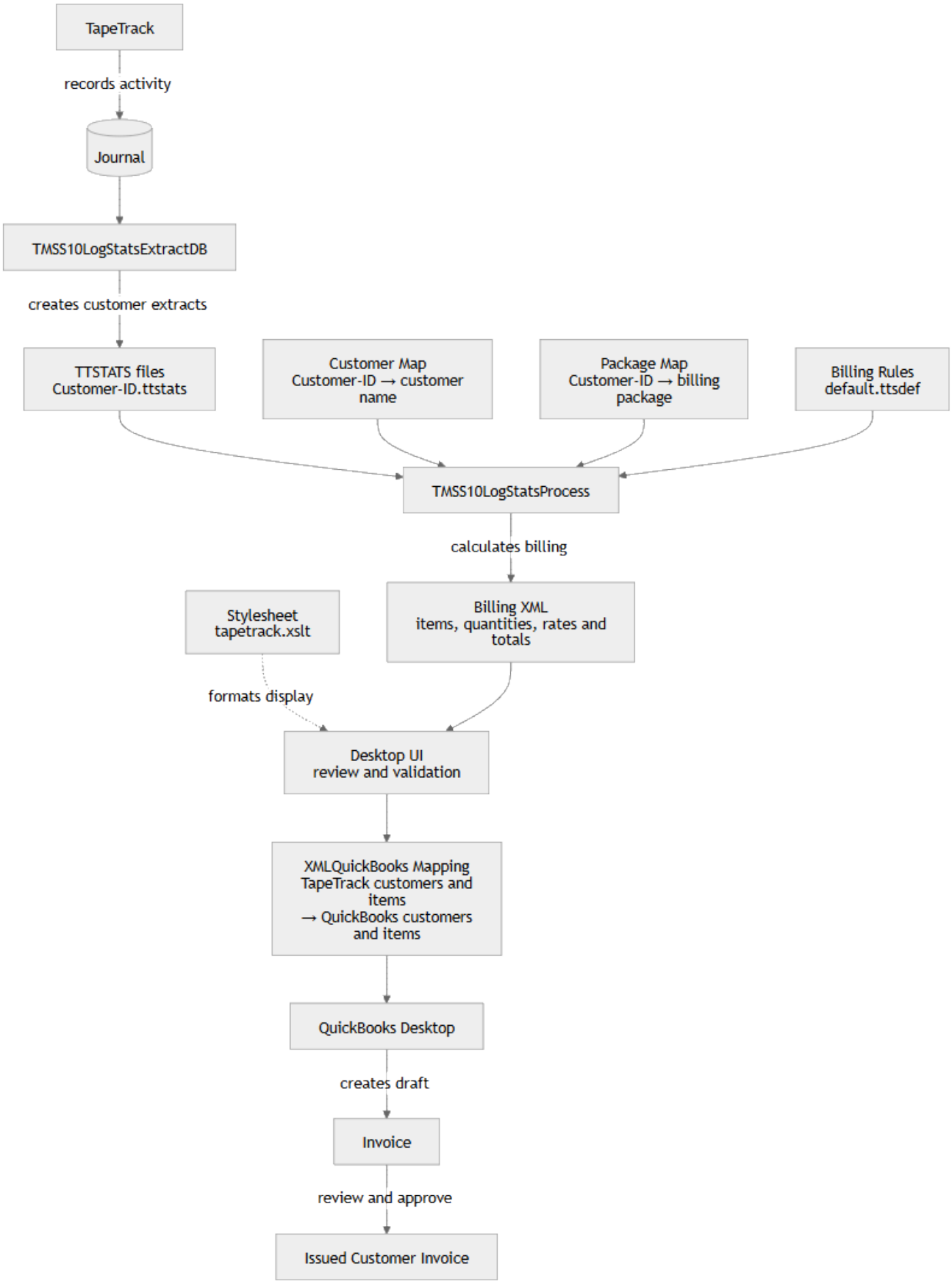
Billing Component Flow Chart

TapeTrack Billing Overview Flow Chart



Stage	Component	Input	Process	Output
1. 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.
2. 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.
3. 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.
4. 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
Journal	Activity recorded by the TapeTrack Framework Server	Stores the source records used to calculate movement, handling and storage charges.
TMSS10LogStatsExtractDB	Journal database entries and the selected billing date range	Extracts the relevant journal records and creates a separate TTSTATS file for each customer.
Customer-ID.ttstats	Customer statistics extracted from the Journal	Supplies the activity types and quantities processed during billing.
Customer Map	TapeTrack Customer-ID	Maps the Customer-ID to the customer name or external accounting identity used in the billing output.
Package Map	TapeTrack Customer-ID	Selects the billing package assigned to the customer.
Billing Rules `default.ttsdef`	Approved billing rates, calculations, rounding and conditions	Defines how TTSTATS quantities are converted into invoice items and charges.
TMSS10LogStatsProcess	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.
Billing XML	Output from TMSS10LogStatsProcess	Contains the calculated invoice items awaiting review and submission to QuickBooks.
Stylesheet `tapetrack.xslt`	Billing XML	Controls how the XML is displayed in the Desktop UI. It does not calculate or modify charges.
Desktop UI	Billing XML and Stylesheet	Displays the calculated billing information for review and submits approved invoice requests.
XMLQuickBooks Mapping	Approved Billing XML	Maps TapeTrack customer and item values to the corresponding QuickBooks customer and item records.
QuickBooks Desktop	Mapped invoice request from the Desktop UI	Creates the customer invoice in QuickBooks.
Invoice	Customer, invoice items, quantities, rates and totals	Provides the draft invoice that is reviewed, approved and issued to the customer.

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