

# Tech Stack Coverage Matrix

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## Tech Stack Coverage Matrix - BBB needs to HubSpot and BAW

Layer	Examples of Tools	Used For	BBB has/will have	HubSpot System Coverage	BAW System Coverage
CRM / Front Office	HubSpot , Salesforce	Sales outreach , marketing campaigns , lead forms	Yes	<b>Tool:</b> HubSpot CRM  <b>Coverage:</b> HubSpot Marketing & Sales Hubs	
CMS	HubSpot CMS, Shopify CMS, AEM	Content and asset management	Yes	<b>Tool:</b> HubSpot CMS  <b>Coverage:</b> HubSpot Content Hub	
Process Automation	IBM BAW, AWS Lambda , EventBridge	Multi-step business workflows , approvals , RPA/IPA	Yes		<b>Tool:</b> IBM BAW  <b>Coverage:</b> IBM BPM (engine), Process Modeler , Workflow Automation
Operational Data Model (System Database )	DynamoDB , Azure SQL, PostgreSQL	Real-time transactional logic, source of truth for app data	TBD  <b>Tool:</b> Azure SQL?  <b>Coverage:</b> Looking at internal tech team or ETG Team to stand one up	TBD	IBM BAW interacts with operational DBs via data connectors but does not serve as a DB itself
Commerce Layer	Shopify , Magento , Composable	Product catalog , shopping cart , and checkout	TBD  Product , Catalog , Order , Inventory , and Fulfillment Management not yet in scope	<b>Tool:</b> Quote and Invoicing  <b>Coverage:</b> HubSpot Commerce Hub early stages (good for quotes , invoices)	Not directly supported by BAW
Payments Layer	Stripe , Shopify Payments	One-time transaction processing	Planned  <b>Tool:</b> Current Gravity payment processor and NMI payment Gateway  <b>Coverage:</b> ETG	Not handled by HubSpot — external integration required (HubSpot + Stripe)	Not handled by BAW

			Coverage: ETG team?		
Subscription Payments Layer	Braintree , Shopify Subscriptions	Recurring billing, subscription plans	TBD	Stripe (default api integration with HubSpot ), does not yet support subscription model	Not supported natively by BAW — external tool integration needed
AI Layer	watsonx Orchestrate , OpenAI , Pinecone , LangChain	LLMs, agents, RAG, automation , content generation	In Progress  <b>Tool:</b> Watsonx Orchestrate , WatsonxAI  <b>Coverage:</b> Internal tech team		BAW supports orchestration with AI agents via APIs
Middleware Layer	n8n, Zapier , Boomi, AWS API Gateway	System orchestration , API routing, automation logic, async data sync	Yes	<b>Tool:</b> Custom  <b>Coverage:</b> HubSpot custom middleware  Middleware connects HubSpot BAW internal DBs. BAW acts as a process orchestrator , not an iPaaS	<b>Tool:</b> Custom  <b>Coverage:</b> HubSpot custom middleware  Middleware connects HubSpot BAW internal DBs. BAW acts as a process orchestrator , not an iPaaS
Integration Layer	Custom APIs, Zapier, n8n	Workflow automation , API orchestration , and cross-system data sync	Yes	<b>Tool:</b> Custom  <b>Coverage:</b> Custom integrations exist via BAW workflows and HubSpot APIs	<b>Tool:</b> Custom  <b>Coverage:</b> Custom integrations exist via BAW workflows and HubSpot APIs
Data Warehouse	Snowflake , Redshift , BigQuery	Canonical model, KPI tracking, dashboards	Planned  <b>Tool:</b> Snowflake  <b>Coverage:</b> Internal tech team		
Data Lake	S3, Snowflake	Raw/unstructur ed data storage for AI, LLMs, logs, backups	Planned  <b>Tool:</b> Snowflake  <b>Coverage:</b> Internal tech		

			team		
Reporting & Analytics	Power BI, Looker, Tableau, HubSpot Reports	Dashboards , business insights , strategic metrics	Yes <b>Tool:</b> Power BI <b>Coverage:</b> Internal Tech Team	<b>HubSpot Reports:</b> front-end engagement	<b>BAW:</b> Business Automation Insights (BAI) for process data
Tracking & Attribution	GTM, GA4, Segment , Amplitude , Mixpanel	Behavioral analytics , attribution , funnel tracking	Yes <b>Tool:</b> GTM, AEM, GA4 <b>Coverage:</b> Internal Tech Team	Managed through HubSpot + GTM	Not covered by BAW
Customer Support & Customer Surveys	Zendesk, Freshdesk, Kustomer, InMoment	Help desk, ticketing, customer issue resolution	Some coverage <b>Tool:</b> InMoment , Custom-built <b>Coverage:</b> Internal teams	<b>Tool:</b> HubSpot Customer Support <b>Coverage:</b> HubSpot Service Hub	BAW could manage escalated case workflows via Case Management features

# HubSpot Capabilities Matrix

## HubSpot Capabilities

HubSpot Tool	Mapped Layer(s)	Used For
Sales Hub	CRM / Front Office Process Automation Reporting & Analytics	Managing contacts , deals , pipelines , sequences , task automation , and reporting for sales reps.
Marketing Hub	CRM / Front Office CMS Process Automation Reporting & Analytics Tracking & Attribution	Creating and executing campaigns , forms , emails , landing pages , nurturing workflows , and tracking UTM and campaign performance .
Content Hub	CMS Tracking & Attribution	Building and managing blogs , pages , gated content , and CTAs , including embedded analytics and content performance .
Operations Hub	Process Automation Integration Layer Middleware Layer	Automating field updates , property logic , syncing data between platforms (e.g. , Salesforce , Gmail) , and building simple logic flows.
Commerce Hub	Commerce Layer Payments Layer	Creating and managing quotes , invoices , Stripe payment links ; managing paid /unpaid statuses .
Breeze AI	AI Layer	AI-powered email content generation , suggestions for reps , and content assistance (early stage — not orchestration or agent-based yet).
Service Hub	Customer Support	Managing support tickets , feedback surveys , ticket pipelines , and service-based workflows .

## HubSpot Capabilities Mapped to Architecture Layers

Layer	HubSpot Hub / Tool	Coverage & Description
CRM / Front Office	Sales Hub, Marketing Hub	Manages contacts , deals, pipelines , campaigns , email sequences , forms
CMS	Content Hub	Hosts landing pages, blogs, site modules , CTAs, gated content
Process Automation	Operations Hub, Workflows	Limited to CRM-centric workflows (e.g., deal stage changes , emails). Doesn't support multi-role or complex BPM
Operational Data Model	–	Not a relational database ; HubSpot CRM is not suitable for complex object relationships or transactional data
Commerce Layer	Commerce Hub	Early-stage ; good for quotes , invoices , and Stripe payment links but lacks full catalog/cart logic
Payments Layer	Commerce Hub + Stripe Integration	Can process payments via Stripe . Great for simple one-time transactions
Subscription Payments Layer	–	Not natively supported . Requires external tools like Chargebee , Braintree , ReCharge
AI Layer	Breeze AI, AI Content Assistant (beta)	Breeze AI generates email copy and suggestions ; still early-stage. No orchestration , RAG, or agentic behavior
Middleware Layer	–	Not middleware . HubSpot does not route between systems but can be connected to tools like n8n or Zapier
Integration Layer	Operations Hub (Data Sync)	Native integrations and sync for some CRMs and tools; limited compared to custom iPaaS solutions
Data Warehouse	–	Not a DW. Some reporting can be exported , but for real data modeling , external DW is needed
Data Lake	–	No raw or blob storage support . Not suitable for LLM/RAG applications
Reporting & Analytics	Marketing Hub Reports , Sales Reports , Custom Reports	Basic dashboards and attribution reporting within HubSpot objects
Tracking & Attribution	Marketing Hub + GTM Integration	Tracks opens , clicks , UTM source



	Marketing Hub + CRM Integration	Tracks opens, clicks, CRM source, and ties to contact records. Can integrate with GA4, Segment, etc.
Customer Support	Service Hub	Manages tickets, feedback surveys, and basic help desk flows. No deep case logic or SLA management

## IBM BAW Capabilities Matrix

### IBM BAW Capabilities

BAW Tool	Mapped Layer(s)	Used For
IBM BPM	Process Automation	Core engine for business workflows and approvals
Operational Decision Manager (ODM)	AI Layer (Rules) / Process Automation	Automating complex rules and policy decisions
FileNet Content Manager	CMS (internal-facing content/documents )	Document storage, retrieval, and compliance
Business Automation Insights (BAI)	Reporting & Analytics	Process-level dashboards and performance tracking
Process Modeler	Process Automation	Visual BPMN-based modeling of business workflows
Case Management	Customer Support / Process Automation	Handling complex, multi-stage customer or business cases
Workflow Automation	Process Automation	Automating recurring or event-driven tasks
System Data Toolkit	Operational Data Model / Integration Layer	Accessing shared business objects and connecting to data
Custom Task Pages (UI)	CRM / CMS	Customizing rep and internal UI for task flows

### IBM BAW Capabilities Mapped to Architecture Layers

Layer	BAW Tool / Capability	Coverage & Description
CRM / Front Office	Custom Task Pages (UI), Case UIs	Internal use only; not designed for customer-facing sales or marketing activities
CMS	FileNet Content Manager	Used for document storage and internal content workflows (not public-facing content or marketing pages)
Process Automation	IBM BPM, Workflow Automation , Process Modeler	Core strength; BAW is built to handle complex multi-role workflows , approvals , task routing
Operational Data Model	System Data Toolkit	Reads/writes to external databases; does not store core records internally (not a DBMS)
Commerce Layer	–	Not supported ; BAW is not a transactional commerce system
Payments Layer	–	No native payments processing ; must be integrated externally
Subscription Payments Layer	–	Not supported ; external billing tools required
AI Layer	ODM (Operational Decision Manager), AI APIs	Business rules engine and can call external AI (e.g., watsonx) but not an AI platform itself
Middleware Layer	Workflow Service Components , Event Listeners, App Connect (optional)	Supports service orchestration and message queueing ; relies on external connectors or APIs
Integration Layer	System Data Toolkit, REST/SOAP Connectors	Well-supported ; integrates with databases , APIs, queues for sync and automation
Data Warehouse	–	BAW does not serve as or output to a DW directly (data export needed)
Data Lake	–	No native support for storing raw or unstructured data
Reporting & Analytics	Business Automation Insights (BAI)	Provides process-level dashboards and insights, not enterprise-wide BI
Tracking & Attribution	–	Not built for web tracking or attribution ; best paired with analytics tools like GA, HubSpot
Customer Support	Case Management	Designed for managing internal and external cases with stages.



		and external case management, escalation logic, and approvals
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IBM BAW Integration & Middleware Capabilities Mapped to Layers

BAW Tool / Capability	Mapped Layer(s)	Used For
System Data Toolkit	Integration Layer	Accessing shared business objects and connecting to external systems (e.g., CRM, SQL DBs)
Custom REST/SOAP Connectors	Integration Layer	Integrating with external APIs (e.g., HubSpot, internal services) for synchronous data flow
Message Queues (e.g., Kafka, MQ)	Middleware Layer	Handling async communication between BAW and other systems (event-based triggers, decoupled flows)
Event Listeners / Triggers	Middleware Layer	Listening for external system events or file drops to initiate BAW workflows
Business Automation Workflow Runtime APIs	Middleware Layer	Enabling real-time status checks, task assignments, workflow transitions from external tools
Custom Adapters / Integration Services	Integration & Middleware Layer	Wrapping external logic in callable modules for reuse inside BAW flows
IBM App Connect / iPaaS (optional companion)	Middleware Layer (external)	Visual orchestration of APIs and logic — often used in enterprise BAW deployments as a service bus
Workflow Service Components	Middleware Layer	Orchestrating multi-step service calls (internal + external) within BAW process models