RTP - Platform initiatives

	Big Rock Item	SPOC	Objective & Expected Outcome	Comments
1	RTP UI /Portal	Babith Baby	**Objective:** The user portal serves as a centralized, secure, and intuitive interface for managing and monitoring real-time data pipelines. It empowers engineering teams to access, configure, and analyze data streams with minimal latency, ensuring operational efficiency and scalability across the enterprise. **Expected Outcome:**	Start with POC for the portal. Homepage with few left navigation buttons for observability, Data Dictionary, cost metering and self-serve pipeline management. Self-serve pipeline management should be restricted roll-based access for RTP engineers. Explore feasibility to get grapfana data from DB or API etc or having iframe for grapfana.
2	Schema registry /contracts	Liju John	**Objective:** Implementation Schema Registry and JSON-based Data Contracts toward achieving data consistency, interoperability, and operational efficiency in real-time data pipelines to prevent downstream failures, reduce escalations, and enable automation. **Expected Outcome:** Reduce errors by 50% by proactive schema validation and contract enforcement. Improve Data Quality & Governance with centralized registry and scoring systems for metadata completeness. Accelerate deployment by enabling automated regression testing.	The schema registry is in place for SIB pipeline. Work with Bhuwnesh to understand the existing setup. Leverage or explore the scalable approach for RTP and CEAD. Lets finalize the high-level design and the execution approach.
3	Savings contract generalization	@chandrika mohit	**Objective:** To standardize savings data contracts into a common schema across all pipelines and send this to savings platform through single pipeline. **Expected Outcome:** Eliminate downstream rework by providing a unified schema for all savings contracts, reducing dependency on custom handling for each new benefit leads to 50% dev productivity for savings platform initiatives. Accelerate development cycles and free bandwidth for the savings platform team, ensuring timely capture of new customer/ member benefits on app and web leads to improved customer experience.	Work with Arun Esakkiappan to evalate the ask. Understand the pros and cons. Based on the benefits, we can start with highlevel design.
4	RTP as source for ST & CDL	Liju John	**Objective:** Position Real-Time Platform (RTP) as the single source of truth for real-time and near-real-time (RT/NRT) data within the Customer Data Platform (CDP) and DCA, ensuring standardized, reliable, and scalable data delivery. **Expected Outcome:** Cost Optimization: Eliminate duplicate data consumption within CDP, reducing infrastructure and processing costs. Product Adoption: Establish RTP as the single source for RT/NRT data, driving broader adoption across enterprise use cases. Enhanced Capabilities: Leverage RTP's built-in framework for observability, dead-letter queue (DLQ) handling, reconciliation, and automated monitoring, improving resilience and operational efficiency.	Start with white paper / POC to branchout the source data without filter and dump the raw payload(L0) to GCS bucket. Measure the performance for high TPS pipelines such as Transaction and interaction. Lets start with Transaction.
5	Integration test suite	Subhabrata Halder	**Objective:** Develop and implement an Integration Test Suite that executes end-to-end test scenarios for each data flow, leveraging data contracts defined in the Schema Registry. This ensures consistent validation of real-time pipelines across all environments. **Expected Outcome:** Comprehensive Validation guarantee that all data flows adhere to the standardized schema contracts, reducing integration defects. Enable CI/CD integration for automated execution of regression and functional tests, minimizing manual effort. Identify schema mismatches and data quality issues before production deployment, improving reliability. Provide a modular test framework that supports multiple pipelines and evolving schema versions. Maintain traceability of test results linked to schema versions for audit and compliance.	After schema registry is established and enabled for one pipeline, Lets develop integration testing framework based of that.
6	RTP (DIFT+LENS) code	@chandrika mohit	**Objective:** Create a unified processing framework(DIFT+LENSE) that improves development speed, readability, and maintainability, while reducing redundant data layers and Kafka topics. **Expected Outcome:** Consolidate multiple layers into a single streamlined pipeline, reducing complexity and operational overhead. Minimize Kafka topic by merging stages, leading to easier governance and lower infrastructure costs. Enable quick onboarding of new data flows through a unified framework, reducing time-to-market. Provide a clear, modular design that enhances developer productivity and reduces errors.	Lets start with stress test to base line the combined code performance compared to DIFT and LENSE layer. Based on the baseline and deviation from current performance, We have to tweak design if needed and then start implementing it from Low impact to high impact pipelines.