# OKR Progress Report (Jan - June)

## Objective 1: Successfully migrate messaging infrastructure from ActiveMQ to Kafka

* Key Results & Progress:
* Replaced ActiveMQ with Kafka in both srs-nni (producer) and sts-backend (consumer) components – Completed
* Developed and integrated Kafka producer logic in NNI
* Developed Kafka consumer logic in sts-backend
* Added comprehensive integration tests for both producer and consumer
* Impact:
* This migration modernized our messaging stack, improved scalability and reliability, and aligned with our long-term tech strategy.
* Gap Closure Needs:
* No major gaps identified; minor enhancements possible in message retry logic for consumer.

## Objective 2: Implement real-time Token Authorization flow for roaming (PNC) and srs-charger

* Key Results & Progress:
* Designed and implemented the Token module for real-time token authorization
* Integrated token handling in PNC and srs-charger flows
* Developed PUT/PATCH CO interface methods and ensured successful token push to configured CPOs
* Impact:
* Enabled real-time roaming authorization which is critical for seamless user experience and compliance with roaming standards.
* Gap Closure Needs:
* Continuous monitoring and optimization as partners increase.

## Objective 3: Enhance token pull and sync process with EMSPs

* Key Results & Progress:
* Configured token pull job for EMSPs
* Indexed tokens into OpenSearch for searchability
* Published pulled tokens to configured CPOs
* Impact:
* Improved synchronization and discoverability of tokens, supporting a better ecosystem-wide integration.
* Gap Closure Needs:
* Set up alerting for failed token pull jobs.

## Objective 4: Support production releases and ensure smooth deployment

* Key Results & Progress:
* Created PRs for code freeze and performed necessary merges across develop → release → master
* Managed environment variables across environments; documented all changes on Confluence
* Impact:
* Helped reduce release-related delays and prevented misconfigurations across environments.
* Gap Closure Needs:
* Automate environment variable validation to reduce manual effort.

## Objective 5: Collaborate actively and support cross-functional teams

* Key Results & Progress:
* Participated in triaging production and QA-reported issues with PO, PM, and QA
* Provided QA testing guidelines and walkthroughs for every ticket
* Ensured timely resolution and no blockers due to my tasks
* Impact:
* Enabled faster QA cycles and higher quality deliverables with fewer misunderstandings.
* Gap Closure Needs:
* Explore opportunities to create reusable QA checklist templates.

## Objective 6: Maintain code quality through testing and peer collaboration

* Key Results & Progress:
* Ensured JUnit and Integration tests were in place for new or modified code
* Actively participated in PR reviews and provided constructive feedback
* Impact:
* Improved team code quality and reduced bugs in staging/production.
* Gap Closure Needs:
* Look into setting up pre-merge code quality metrics.

## Objective 7: Address security issues with urgency and completeness

* Key Results & Progress:
* Resolved all CRITICAL and HIGH security issues reported for srs-nni
* Impact:
* Strengthened the overall security posture of our platform, reducing risk.
* Gap Closure Needs:
* Implement proactive static code scanning in CI pipeline.

## Overall Assessment:

I consistently delivered all assigned goals within the timeframe, contributed to cross-team alignment, and maintained a high standard in code quality, testing, and production support. I also ensured collaboration with QA and product teams, proactively supported production stability, and resolved all critical issues promptly. Going forward, I aim to further automate manual steps (like variable management and token monitoring) and proactively enhance observability in our messaging flows.