# Monthly PR & Impact Summary — July 2025

🚀 **Core Feature Work**

1. **Revamped Capacity Details Display and Pod Health Logic**
   * **Type:** UI Improvement
   * **Date:** 1 July 2025
   * **Summary:**
     1. Replaced the old table layout with styled, bordered sections per endpoint; added summarized error and availability blocks, expandable deployment tables for detailed pod views, and a direct dashboard link.
   * **PR link:** [**Pull request 43834: updated final html for capacity details - Repos**](https://dev.azure.com/project-argos/Sorento/_git/oairt-ai/pullrequest/43834)
2. **Improved Sample Request ID Processing for Missing or Incomplete Investigation Data**
   * **Type:** Enhancement
   * **Date:** 1 July 2025
   * **Summary:**
     1. Strengthens sample request investigation by evaluating multiple request IDs to improve data enrichment reliability.
   * **PR link:** [**Pull request 44863: Enhance sample request ID processing - Repos**](https://dev.azure.com/project-argos/Sorento/_git/oairt-ai/pullrequest/44863)
3. **EngineV3 KV Utilization Check for Enhanced SLA Impact Detection**
   * **Type:** New Feature
   * **Date:** 3 July 2025
   * **Summary:**
     1. Introduces EngineV3-specific KV utilization analysis to improve SLA impact detection accuracy.
   * **PR link:** [**Pull request 45044: Added EngineV3 KV utilization check in enrichment - Repos**](https://dev.azure.com/project-argos/Sorento/_git/oairt-ai/pullrequest/45044)
4. **Dynamic Cluster Name Resolution via KQL Queries**
   * **Type:** New Feature
   * **Date:** 4 July 2025
   * **Summary:**
     1. Replaced static cluster mappings with dynamic KQL-based lookups, improving accuracy and maintainability.
   * **PR link:** [**Pull request 45170: Use KQL table to fetch cluster names - Repos**](https://dev.azure.com/project-argos/Sorento/_git/oairt-ai/pullrequest/45170)
5. **Added Endpoint Filtering to get\_fd\_data**
   * **Type:** Enhancement
   * **Date:** 4 July 2025
   * **Summary:**
     1. Improved data retrieval accuracy by allowing selective filtering of FD query results based on endpoint.
   * **PR link:** [**Pull request 45274: Refactor get\_fd\_data to include endpoint filtering - Repos**](https://dev.azure.com/project-argos/Sorento/_git/oairt-ai/pullrequest/45274)
6. **Streamlined Region Query and Extraction Logic**
   * **Type:** Enhancement
   * **Date:** 16 July 2025
   * **Summary:**
     1. Simplified region retrieval by refining the query and extraction process, reducing errors and improving maintainability.
   * **PR link:** [**Pull request 46410: update the get region query - Repos**](https://dev.azure.com/project-argos/Sorento/_git/oairt-ai/pullrequest/46410)
7. **Kusto Data Ingestion for ICM Enrichment**
   * **Type:** New Feature
   * **Date:** 16 July 2025
   * **Summary:**
     1. Added capability to push analyzed ICM enrichment data and errors to Kusto, improving observability and tracking.
   * **PR link:** [**Pull request 46424: Implement Kusto data ingestion for icm enrichment - Repos**](https://dev.azure.com/project-argos/Sorento/_git/oairt-ai/pullrequest/46424)
8. **Refined Time Range and Query Handling for Capacity Errors**
   * **Type:** Bug Fix
   * **Date:** 21 July 2025
   * **Summary:**
     1. Resolved capacity-related errors by standardizing time range handling and improving query filtering logic.
   * **PR link:** [**Pull request 46583: Fix Capacity Error - Repos**](https://dev.azure.com/project-argos/Sorento/_git/oairt-ai/pullrequest/46583)
9. **Enhanced Clip Endpoint and Model Error Investigation**
   * **Type:** Bug Fix
   * **Date:** 22 July 2025
   * **Summary:**
     1. Adjusted Clip endpoint retrieval and extended the investigation window from 12 to 24 hours.
     2. Replaced a fixed query condition with a dynamic filter and enhanced log filtering with additional error checks.
   * **PR link:** [**Pull request 47015: Fix model errors and refine clip endpoint query logic - Repos**](https://dev.azure.com/project-argos/Sorento/_git/oairt-ai/pullrequest/47015)
10. **Retry Logic for Robust ICM Investigation**
    * **Type:** New Feature
    * **Date:** 23 July 2025
    * **Summary:**
      1. Added a retry loop with up to 5 attempts, incorporating exponential backoff delays and enhanced logging for repeated investigation attempts.
    * **PR link:** [**Pull request 47042: Implement retry logic for ICM investigation - Repos**](https://dev.azure.com/project-argos/Sorento/_git/oairt-ai/pullrequest/47042)
11. **Unified Error Reporting and Capacity Details Rendering**
    * **Type:** UI Improvement
    * **Date:** 24 July 2025
    * **Summary:**
      1. Standardized field naming and UI text across model error investigation, capacity details, and error rendering modules.
    * **PR link:** [**Pull request 47333: Refactor model error and capacity details rendering for consistency and clarity - Repos**](https://dev.azure.com/project-argos/Sorento/_git/oairt-ai/pullrequest/47333)
12. **Clip Utilization Rendering in ICM Enrichment**
    * **Type:** New Feature
    * **Date:** 24 July 2025
    * **Summary:**
      1. Adds clip utilization analysis and rendering to the ICM enrichment reports, providing detailed insights for traffic groups.
    * **PR link:** [**Pull request 47223: Add clip utilization rendering and integration into ICM enrichment - Repos**](https://dev.azure.com/project-argos/Sorento/_git/oairt-ai/pullrequest/47223)
13. **Dashboard URL Formatting and Clip Utilization Error Handling**
    * **Type:** Bug Fix
    * **Date:** 25 July 2025
    * **Summary:**
      1. Enhanced clip utilization display logic to show details only when valid data exists, improving report accuracy and readability.
    * **PR link:** [**Pull request 47540: Fix dashboard URL formatting and improve clip utilization error handling - Repos**](https://dev.azure.com/project-argos/Sorento/_git/oairt-ai/pullrequest/47540)
14. **Support for Multiple Response Codes in Investigation Handling**
    * **Type:** Enhancement
    * **Date:** 25 July 2025
    * **Summary:**
      1. Enhanced ICM investigation processing to support multiple entries keyed by response codes, improving the granularity and clarity of error reporting.
    * **PR link:** [**Pull request 47531: Refactor sample request investigation handling to support multiple response codes - Repos**](https://dev.azure.com/project-argos/Sorento/_git/oairt-ai/pullrequest/47531)
15. **Improved Sample Request ID Investigation Processing**
    * **Type:** Enhancement
    * **Date:** 28 July 2025
    * **Summary:**
      1. Updated logic to process the first sample request ID using process\_request\_id and store the response as a mapping from response code to request data.
    * **PR link:** [**Pull request 47716: Refactor sample request ID investigation to use process\_request\_id - Repos**](https://dev.azure.com/project-argos/Sorento/_git/oairt-ai/pullrequest/47716)
16. **Retry Logic for Kusto Queries and ICM Error Handling Cleanup**
    * **Type:** New Feature
    * **Date:** 28 July 2025
    * **Summary:**
      1. Introduces retry logic with exponential backoff in the Kusto client for improved query resilience.
    * **PR link:** [**Pull request 47705: Added retry logic at kusto query execution - Repos**](https://dev.azure.com/project-argos/Sorento/_git/oairt-ai/pullrequest/47705)
17. **Clip Endpoint Management and Improved HTML Rendering**
    * **Type:** Enhancement
    * **Date:** 29 July 2025
    * **Summary:**
      1. Streamlines clip endpoint handling in ICM investigations, ensuring valid endpoints are correctly appended and processed.
    * **PR link:** [**Pull request 47722: Update clip endpoint and enhance rendering of model errors and SLA details - Repos**](https://dev.azure.com/project-argos/Sorento/_git/oairt-ai/pullrequest/47722)
18. **Dynamic Kusto Client Resolution and Streamlined Investigation Data Retrieval**
    * **Type:** Enhancement
    * **Date:** 29 July 2025
    * **Summary:**
      1. Optimizes query construction and data retrieval for FD, CAPI, and Engine logs, improving efficiency and maintainability.
    * **PR link:** [**Pull request 47876: Optimized Sample Request Investigation - Repos**](https://dev.azure.com/project-argos/Sorento/_git/oairt-ai/pullrequest/47876)
19. **Null Handling in Sample Request ID Investigation**
    * **Type:** Bug Fix
    * **Date:** 30 July 2025
    * **Summary:**
      1. Prevents runtime errors by adding explicit null checks for the sample\_request\_id\_investigation field in the ICM investigation logic.
    * **PR link:** [**Pull request 48033: Fix: Add null check for sample\_request\_id\_investigation - Repos**](https://dev.azure.com/project-argos/Sorento/_git/oairt-ai/pullrequest/48033)
20. **Kusto Query Timeout Handling and Endpoint Validation**
    * **Type:** Bug Fix
    * **Date:** 31 July 2025
    * **Summary:**
      1. Added specialized logging and re-raising for timeout errors; reduced request timeout from 15 minutes to 2 minutes.
    * **PR link:** [**Pull request 48029: Added Kusto query timeout - Repos**](https://dev.azure.com/project-argos/Sorento/_git/oairt-ai/pullrequest/48029)
21. **Reliable Pod Links and Streamlined Capacity Display**
    * **Type:** UI Improvement
    * **Date:** 31 July 2025
    * **Summary:**
      1. Simplifies the capacity details UI by removing expandable sections for additional pods.
    * **PR link:** [**Pull request 48024: Fix Capacity broken links and improved the UI - Repos**](https://dev.azure.com/project-argos/Sorento/_git/oairt-ai/pullrequest/48024)