PATHOGEN-REDUCTION INTEGRATION & SYSTEMS MODERNIZATION

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Real-Time Digital Documentation for INTERCEPT Blood Product Processing

PROBLEM DEFINITION

Many blood centers performing INTERCEPT processing still rely on paper documentation creating preventable risk and limiting real-time operational efficiency.

- Paper-driven records → fragmented documentation
- Manual transcription → missing/incorrect fields & higher rework/error rates
- Limited visibility of production metrics → real-time monitoring difficult

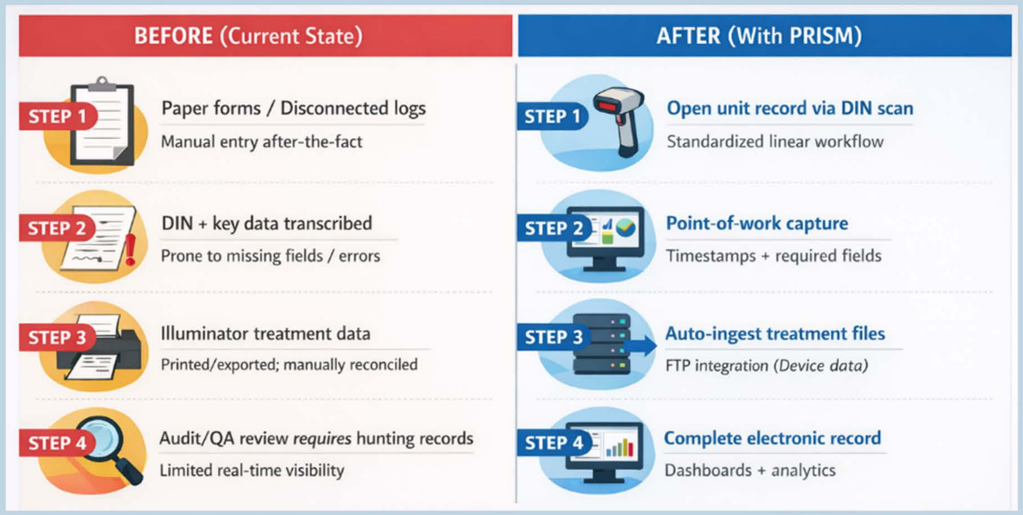
Critical processing data is often captured retrospectively across multiple systems, resulting in inconsistent records and elevated regulatory risk.

PROJECT OVERVIEW & GOAL

Paper-based documentation for INTERCEPT platelet processing creates challenges including transcription errors, limited production visibility, and increased compliance risk. This project evaluates the implementation of the PRISM digital documentation system, designed to replace manual records with standardized electronic capture integrated with illuminator data.

The goal is to improve data integrity, regulatory compliance, and operational efficiency while supporting blood center business continuity

CONCEPTIONAL SHIFT



PRISM PRE-DEVELOPMENT BLOOD CENTER USER SURVEY

Survey responses from 22 blood centers user (representing 21 blood center organizations) were analyzed to assess current documentation practices and the potential benefits of PRISM.

PRISM Pre-Development Blood Center User Survey, Key Results (N=22)

Note: Pain points & Value drivers shown as Top-2-Box (Agree + Strongly Agree). Adoption shown as Neutral/Likely/Very likely.

Survey Section	Question	Metric	Result
Current state	Documentation includes paper	Includes paper (mostly paper or paper + electronic mix)	**73%** (16/22)
Pain points	Documentation is time-consuming	Agree/ Strongly Agree	**77%** (17/22)
	Manual transcription creates avoidable errors	Agree/ Strongly Agree	**77%** (17/22)
	Rework/corrections are common	Agree/ Strongly Agree	**45%** (10/22)
Value drivers	DIN barcode scanning reduces errors and time	Agree/ Strongly Agree	**82%** (18/22)
	User timestamps improve traceability and efficiency	Agree/ Strongly Agree	**82%** (18/22)
	Audit trail improves compliance readiness	Agree/ Strongly Agree	**86%** (19/22)
	Unit status dashboard improves operations	Agree/ Strongly Agree	**82%** (18/22)
	Overall: PRISM improves documentation quality & input qualification efficiency	Agree/ Strongly Agree	**77%** (17/22)
Workflow fit	Downtime mode is required for business continuity	Important/ Very Important/ Essential	**100%** (22/22)
	PRISM aligns with current SOP workflow	Moderately/ Well/ Very well aligned	**68%** (15/22)
Adoption	Likelihood to participate in a pilot	Neutral/ Likely/ Very likely	**77%** (17/22)

CONCLUSION

- Many blood centers still rely on documentation methods that include paper. Respondents report material burden and risk of error driven by manual transcription.
- Respondents strongly endorse the highest-value digital workflow capabilities, including audit trail, DIN capture, timestamping, and unit status visibility, indicating a clearly perceived benefit from PRISM's design.
- Downtime capability is universally viewed as critical, positioning PRISM as not only modernization but also a meaningful business continuity enabler.

OUTCOME

The results position PRISM as a compelling innovation for modernizing INTERCEPT processing. They support proceeding with development and staged pilots to validate measurable operational and compliance benefits and to advance a realistic 2026 go-to-market trajectory.