



PTC Type Ready Systems

IETMS

ASES (early Q2 2021)

Latency

Near Real-Time

Reporting

Streamlined FRA reporting

Operational Reporting

Support Custom Requirements

Alerting

Email, Cellular, SNMP, Push Notifications

Default Dashboard

PTC Run Success Rate, PTC Run Failures, PTC Run Enforcements

Features	Standard	Optional
Train Run Log	✓	✗
Train History	✓	✗
EMP Message Detail	✓	✗
Email Notification	✓	✗
PTC Run Dashboard	✓	✗
Wayside Monitoring	✗	✓
Geospatial Analysis	✗	✓
FRA Reporting	✓	✗
Customized Operational Reporting	✗	✓
Cloud Hosted	✓	✗
On Site Installation	✗	✓
ASES & ASES2 Support	✗	✓
Existing System Integration	✗	✓
Customized Support Service	✓	

IRONRAM™

Positive Train Control Operational Awareness

Features

- Monitor and track train initializations
- No fleet re-configuration or on-board agents needed
- Near real-time PTC failures & incidents dashboards
- Easy expansion framework for future enhancements
- Immediate Identification of fielded problem equipment
- Immediate detection of PTC enforcements and warnings
- Integrates with existing client visualization platforms

IronRAM Platform Features



PTC Dashboards enable network managers to monitor the status of PTC enabled trains in near real-time. Break out and drill down capabilities provide insights by enforcement type, failure type, percentage of failed PTC runs, and other key metrics.



Log Viewer Deliver relevant PTC data to help desk staff immediately to keep trains rolling. Instant access to data from log retrieval and analysis. Advanced contextual data searches by train symbol, locomotive ID, and more.



Notifications Receive custom alerts for priority events through email, SMS, or customized push notifications. Integrate seamlessly with your existing NMS.



Cloud Hosted approach reduces integration time and speed up operational readiness without hardware procurement or physical data center setup. Service Level Availability customization suits your operational requirements and budget.



Standards Based design ensures your setup is future proof. Based on OASIS and AAR standards for ITCM and EMP messaging, IronRAM will continue to innovate to meet changes in standards for years to come.



Operational Time Savings from workflow and FRA reporting requirement integration to minimize the time staff needs to generate timely required reporting from days/weeks to minutes/hours. Frees operational staff to handle important operational tasking, not report generation.