

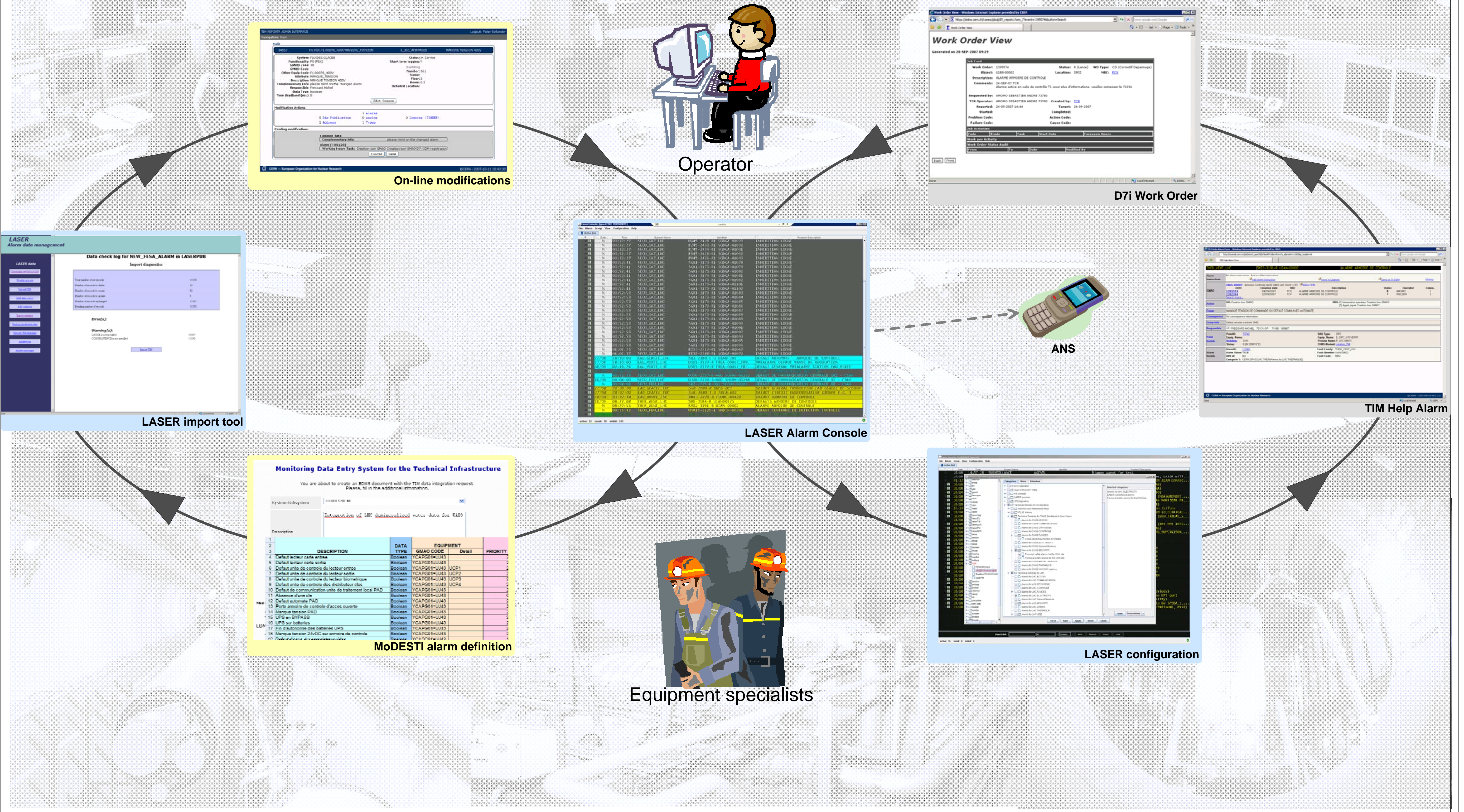
Alarms Configuration Management at CERN

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Knoxville, USA

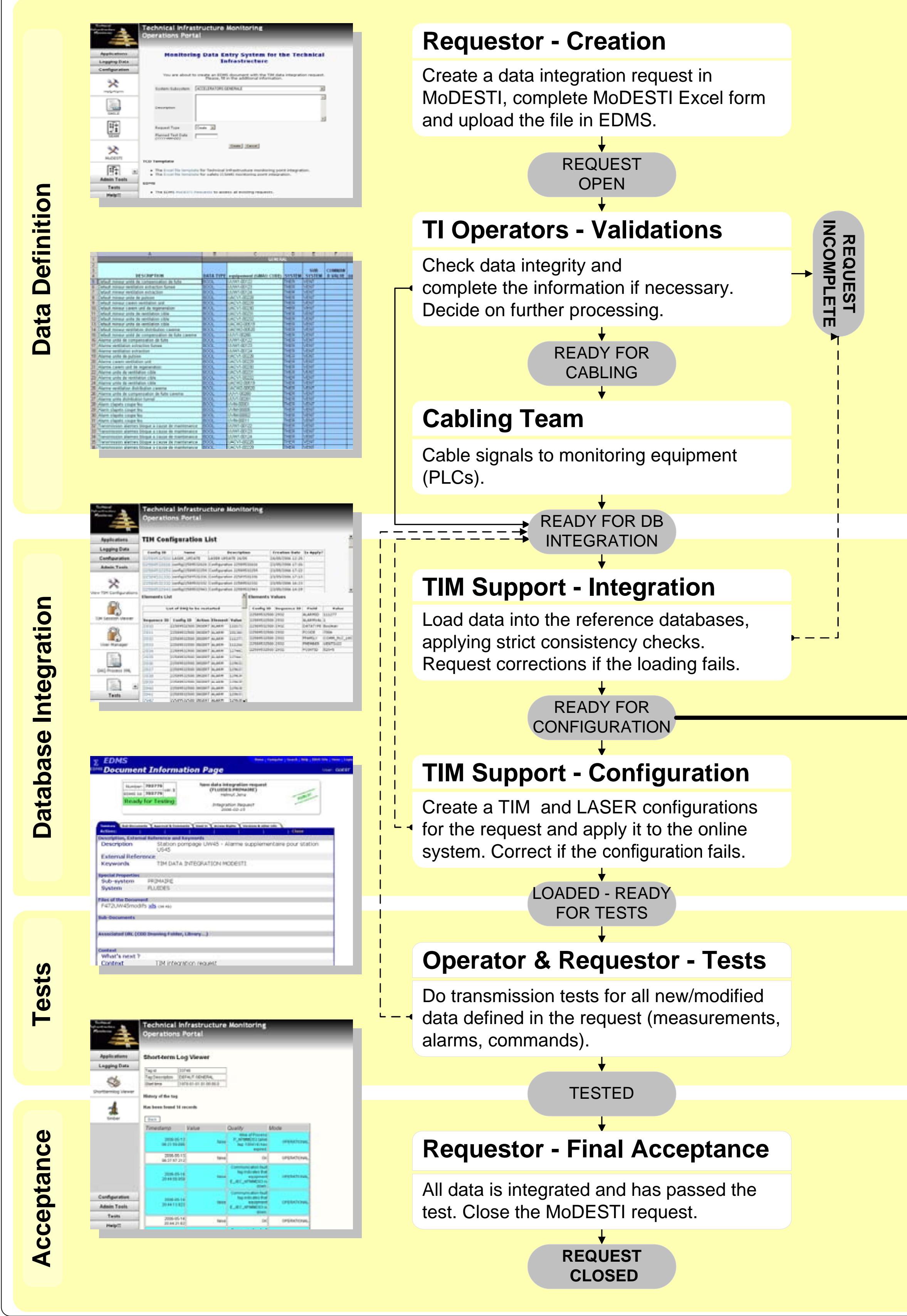
At CERN, there is a constant evolution in technology and equipment. Hundreds of alarm changes are declared every month. This shows how CERN manages the definition, treatment and effective response to alarms.

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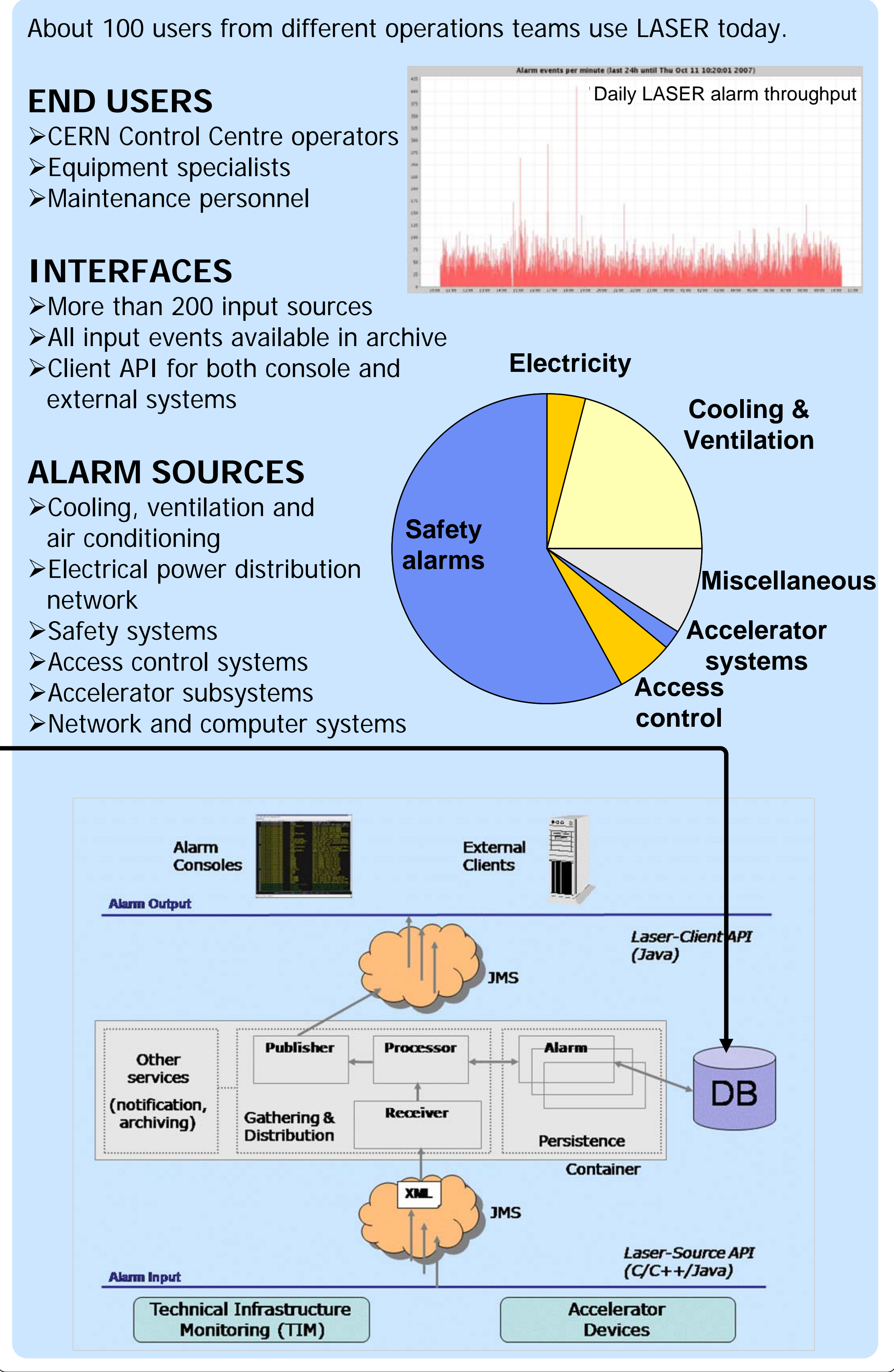
Alarm lifecycle



Monitoring Data Entry System for TIM (MoDESTI)



LHC Alarm Service



Tools

- Alarm Help**
Complete alarm information
Link to CAMMS
Link to alarm instructions
On-line updates
- CAMMS**
CERN asset management system
Automatically generate work orders
Around 120 per week
Equipment maintenance history
- Alarm Notification System**
Automatic calls to any phone
Used for call-out teams
Call escalation on failure
Voice, SMS and e-mail messages
Calendar scheduling
- Laser Console**
Displays alarms
Acknowledge, high-light and mask
Alarm history, archive
Alarm definition search
- Alarm Configuration**
Categories: subsets of alarms
Changes display behaviour
Filters for priority and systems
- Laser import tool**
Imports data from external systems
Final verification data correct for LASER
Makes reduction links
Ensures dependent alarms in coherent categories