3S Software

CASE STUDY 01

ENTERPRISE ENGINEERING MANAGEMENT PLATFORM

From a Small Application to a Business-Critical Enterprise Platform

How a long-term partnership turned a single project into the platform that connects a fire safety engineering company's commercial, technical, financial, and field operations.

INDUSTRY	CUSTOMER	RELATIONSHIP	DELIVERY
Fire safety engineering & technical services	Confidential Brazilian engineering company	Approx. 12 years, ongoing	Web platform + tablet app (Flutter)

THE CHALLENGE

A fire safety engineering company serving large organizations needed custom software to improve and connect its operations. The relationship began with a relatively small project — and grew as each new need was addressed.

THE RELATIONSHIP

- **Start:** a relatively small project.
- **Growth:** gradual expansion into a comprehensive enterprise platform.
- **~5 years ago:** the customer acquired ownership of the source code and kept 3S as its development partner.
- **Today:** 3S continues to enhance the platform.

THE SOLUTION — ONE PLATFORM ACROSS THE BUSINESS

- **Commercial proposals & service orders**
- **Purchasing & financial administration**
- **Engineering project management**
- **Technical inspections & regulatory processes**
- **Internal requests & scheduling**
- **Training & logistics**
- **Operational reports & dashboards**
- **Customer portal**

MOBILE FIELD INSPECTIONS

A cross-platform tablet application for Android and iOS, built with Flutter and Dart. It works offline and synchronizes collected data when connectivity is restored.

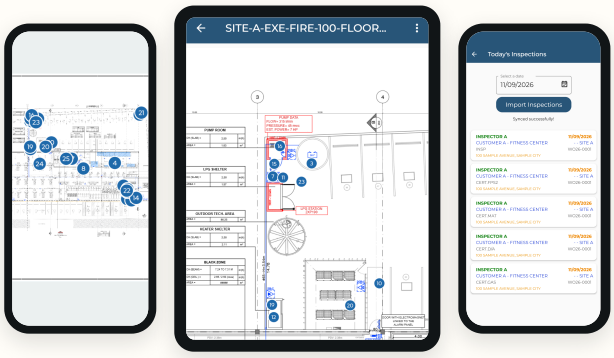
01 **Locate.** Select fire safety points on interactive floor plans.

02 **Record.** Findings are recorded on site, at each point.

03 **Evidence.** Photos are attached directly to each record.

04 **Sync & monitor.** Managers and customers track progress as data syncs.

Flutter · Dart · Android · iOS · Offline operation



BUSINESS IMPACT

BEFORE

Technicians took photographs and notes during inspections, then prepared their reports after returning to the office.

WITH THE MOBILE APPLICATION

Inspections are documented on site, reducing administrative work and improving productivity and report quality.

CUSTOMER OUTCOME

According to customer feedback relayed to 3S, the solution became an important competitive differentiator and helped the customer win new contracts.

Screenshots use anonymized data. Customer identity remains confidential.