

Building Trust in Technology

@EDIPRINTER – SOFTWARE DEVELOPMENT
SINCE 1990



About us

Ediprinter was founded in October 1990 and has been in the market with sustained and visible growth over the last 30 years.

We are a team of analysts, developers, designers and technicians, diversified in specific and complementary areas of knowledge to offer a complete set of technological and professional solutions to our customers.

Team formed by young, dynamic and willing to learn and evolve, complemented by the responsibility and experience of those who have been part of this team in some cases for over 20 years.

At the invitation of one of the first inspection centers to open in Portugal in 1994, Ediprinter installed the Management Software for Automotive Technical Inspection Centers - EDIGCIA, in the first PTI Client. Since then, EDIGCIA has been installed in around 80% of the national market, which has allowed us to improve our application to better serve our customers.

About us

Focused in the last decade on investing in the international market, we have been conquering International Customers and Groups of world dimension, which allow us to learn, evolve and become increasingly stronger in the experience of the PTI market.

Very important in our journey are the strong partnerships we have created so that we can always offer our customers the best option.

The guarantee of Ediprinter's future is the development of the quality level of our products and services, as well as the technological evolution and proximity to our partners and customers, which have been the basis of our success over the years.

Our performance, our professionalism and the search for constant improvement are our guidelines to fulfill our mission.

What do we do

Dedicated to the development of software and IT solutions, we have been dedicated for 28 years to the Management of Automotive Inspection Centers, which has allowed us to specialize in this market, whether at a technical, fiscal and administrative level.

We are able to provide a global response to customer needs, with the most up-to-date and advanced tools, helping to meet the most diverse legal requirements - both at a Technical level (Inspection Lines), and at a Fiscal level (issuance of payment documents, management of customer current accounts, ...).

We offer complete control of the inspection line, billing and management of an isolated station or a group of stations remotely, in a single software - EDIGCIA 8.

Ediprinter in the world...

Present in:

- **Portugal** (more than 80% market of about 200 inspection centers – more than six million insp/Year);
- **Malta** (3 stations installed);
- **Angola** (the only existing inspection center currently belonging to the Angolan police - test);
- **Mozambique** (100% market - three hundred thousand insp./year);
- **Cape Verde** (100% market - fifty thousand insp/Year);
- **Argentina** (hundred and fifty thousand inspections);
- **Senegal** (Bureau Veritas Group – CCTVA – more than 1.000 inspections/day);
- **Ghana** (TLL - Trust Logistics Limited) – 3 Lanes installed);
- **Sierra Leone** (implementing the 2 first inspections centers in the territory);
- **Togo** (3 mobile stations);
- **Côte d'Ivoire** (CAS Equipment – test lane);
- **Costa Rica** (In the implementation phase of all inspection centers in the territory of Costa Rica).

A reference and market leader in vehicle inspection management software, as a more visible example.

Discover Edigcia 8





Edigcia 8

The management software for vehicle inspection centers EDIGCIA 8, is an intelligent solution with advanced and fully integrated technology, which allows the complete management of an individual company / center or a group of companies of periodic technical inspection centers.

With EDIGCIA 8, the company is equipped to function fully in line with the defined procedures and with all available information in real time.

EDIGCIA 8 guarantees a flexible data model with the capacity to support an organizational implementation and complex communication structures, while simplifying the management and configuration of multiple facilities, companies and countries from a common facility.

EDIGCIA 8 facilitates the management of an international business, with customers in different languages and multiple currencies, ensuring global legal compliance both at the technical, legislative and financial levels (by configuration).


EDIGCIA 8 is prepared to receive all tax and technical legislation (at the level of inspections) applicable in each country.

EDIGCIA 8 is a software designed and based on Web technology, working exclusively on a web browser or an APP if run on an Android mobile device (tablet or mobile phone) and based on a robust and reliable database (MariaDB), capable of responding quickly to all requirements / requests.





Edigcia 8 – Technical specifications

- > Web software under Windows;
- > Developed in technology: MVC;
- > under Windows or Android, because it runs in a browser;
- > Database: Maria DB 
 - > Hosting of database on the local server (Center);
 - > Hosting of the database in the cloud (data center).



Operation/Installation Modes

The technological solution can be implemented in two different types:

- Local Solution;
- Hybrid Solution;
- Full Cloud Solution;

Depending on the solution chosen, the infrastructures to be implemented will have to be distinct in the different locations:

- Inspection Centers;
- Regulatory Entities;
- Cloud Services.

Versatile and adaptable to each reality...





Edigcia 8 – Installation Modes

The Edigcia8 software, is a software designed and based on web technology, executed exclusively from an internet browser, or, in an app, if executed from any Android mobile device (Tablet or mobile phone), and based on a powerful and reliable database. MariaDB data, capable of responding quickly and accurately to all requests.

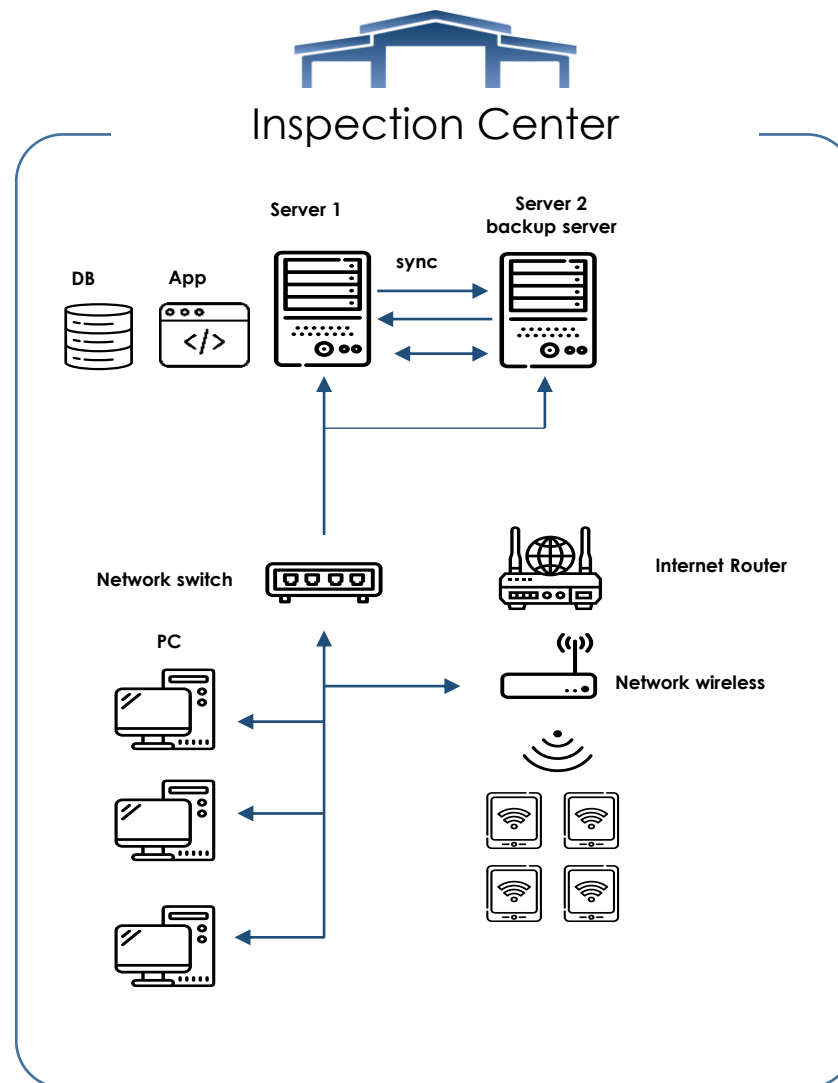
The Edigcia8 Software can be implemented in one of 3 different modes:

Local Mode	Installed on a server in an Inspection Center
Hybrid Mode	Installed on the inspection center server with replications to a central cloud database
Full Cloud Mode	Installed exclusively on the Cloud





Edigcia 8 – Local Mode



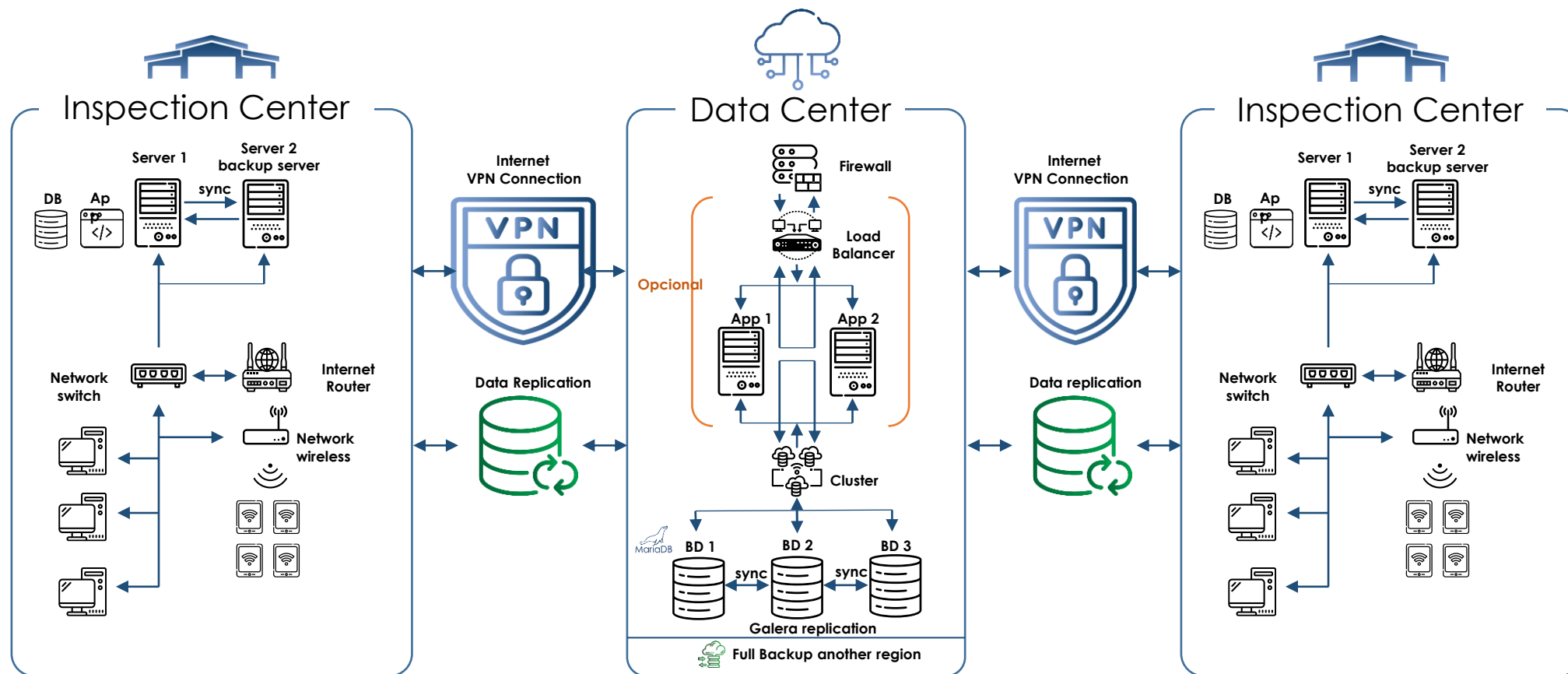
Features:

- Traditional local installation method;
- 1 server in the center with Windows Server 2012 or higher;
- Local backup copies;
- Possibility of an alternative local server;
- MariaDB Database - more stable and reliable;
- Software prepared for evolution;





Edigcia – Hybrid Mode



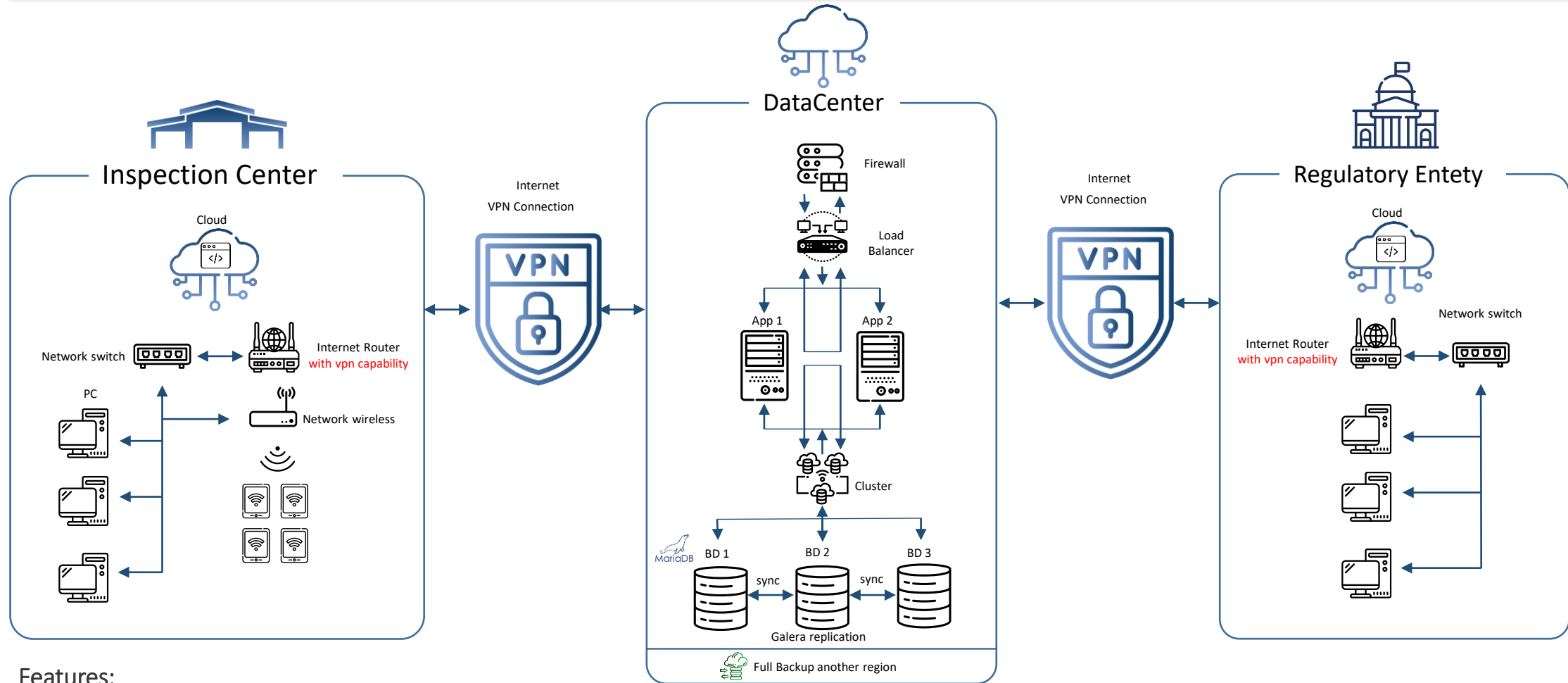
Features:

- 1 server in each inspection center;
- MariaDB replication for the Datacenter;
- Ediprinter synchronization, Datacenter -> Center;
- Internet not mandatory;
- Possibility of, in case of server failure, the center can work directly in the cloud.





Edigcia - Full Cloud Mode



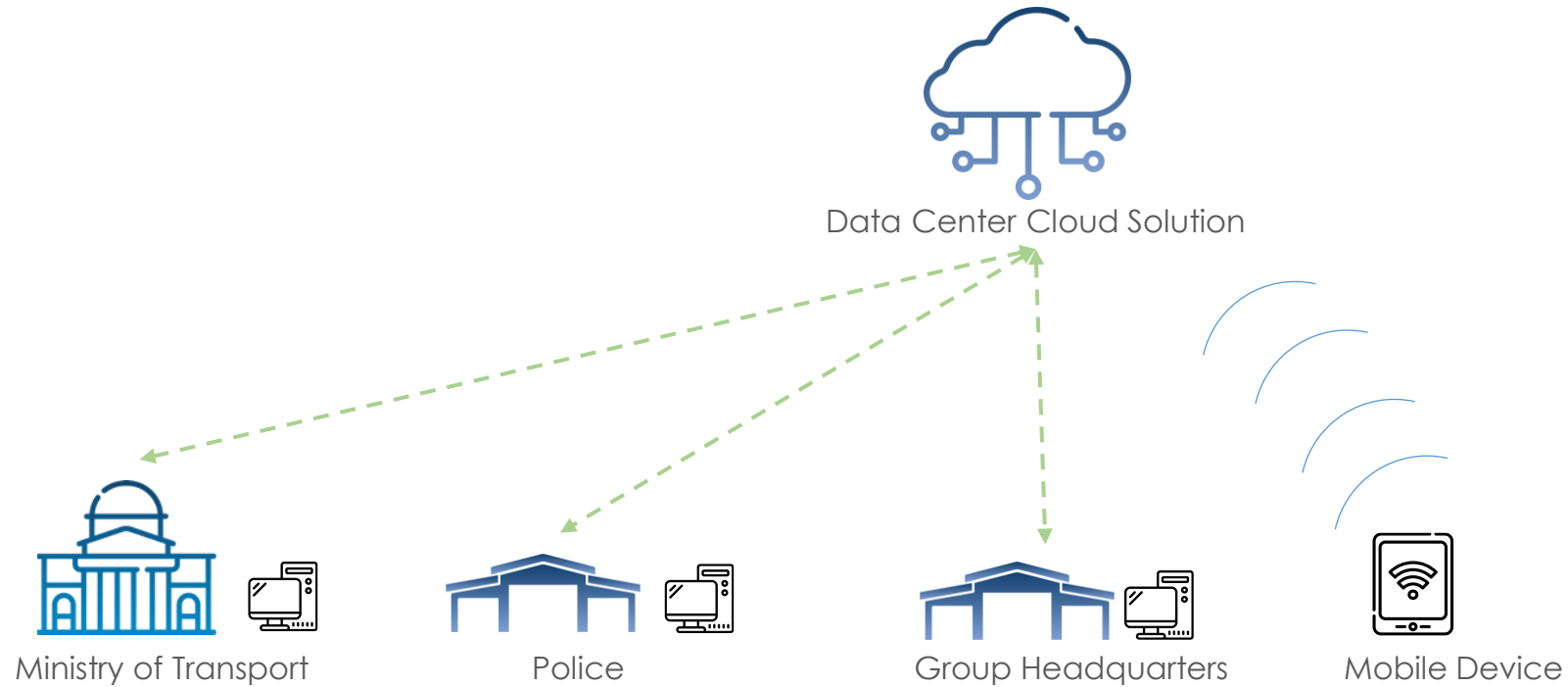
Features:

- Without physical server in the inspection center;
- Mandatory Internet;
- Software Edigcia8 + Exclusive database in the Cloud.





EDIGCIA 8 - Datacenter Queries (Hybrid or Cloud)



Potentialities:

- Allows inspection data to be consulted by several external bodies;
- Allows central management at the headquarters of the group of inspection centers;
- External access can be made from a desktop computer or any mobile device.





Edigcia 8 is a software designed and based on Web technology, it works exclusively in a web browser or an APP, if it is executed on an Android mobile device (Tablet or Mobile) and is based on a Robust and Reliable Data Base, MariaDB Database, able to respond quickly to all requirements.

SCALABILITY

- Division
- Parallel query
- Read replicas
- Fragmentation
- Compression

HIGH AVAILABILITY

- Automatic failover
- Group
- Distributed SQL

DISASTER RECOVERY

- Business Backup
- Flashback
- Delayed aftershocks

SECURITY

- Encryption
- Dynamic data masking
- Database Firewall

MariaDB – Is Safe?

MariaDB protects data on every layer, from encrypted communication and storage to connectable authentication and role-based access control, in addition to an advanced database proxy with an integrated firewall to detect and prevent data breaches through blocking consultations and masking confidential data.





20 Advantages of Edigcia 8

- Communication protocols with major equipment manufacturers;
- Complete and integral management of an inspection center or group of inspection centers with a single software (financial management, technical management, worker management, equipment management and administrative management);
- Centralized and consolidated data management;
- “Cloud” technology (software hosted in a datacenter with the possibility of hosting on a local server);
- Solution prepared to receive and send information to an external Database (governmental or other entities...);
- The system runs on any computer, as well as on any mobile device (tablet/mobile phone);
- Adaptable to the specifications of each country (financial, fiscal, technical, etc.);
- Multilingual and Multi-currency;
- Robust and secure access control system, permissions and registration of all user actions;
- Configuration of access privileges per user.





20 Advantages of Edigcia 8

- Analysis of production, invoicing, statistical graphics and control systems for the inspection activity;
- It assures the center or group center manager that all services generate unique documents, which guarantees real billing in relation to the services performed;
- Fixed or variable price list of services, depending on the desired configuration;
- Customer Management;
- Sending automatic notifications to customers in pre-defined periods (SMS, letter and e-mail);
- Eliminates paper on the inspection line;
- Eliminates printers on the inspection line;
- Eliminates the inspector's error in attributing deficiencies (the deficiencies attributed by the equipment are integrated in EDIGCIA 8 which, in turn, automatically assigns it, if any);
- Very significant reduction in the time of each inspection;
- Help tool for the integration of new inspectors.



**All the Control in
your hand**





Vehicle Reception

The entire inspection process is initiated from the registration of the vehicle in the software. In this phase, the vehicle and owner data are collected. This collection can be imported directly from an external database (governmental authorities or other).

After registration, the system automatically issues a fiscal or control document (invoice, receipt, Ticket or other), so there is a rigorous control between the generated invoicing and the number of inspections carried out. This option is not mandatory.

Main Features:

- Collection of vehicle and owner data;
- Possibility of consultation and data collection in the external database (governmental or other);
- Automatic price assignment per service;
- Issuance of fiscal document or other control doc;
- Select/choose means of payment;
- Closures and control of cash;
- Invoice settlement (credit documents);
- Definition of contacts for automatic shipments of notice of next inspection.

The screenshot displays the 'Recepção' (Reception) screen of the software. The interface is divided into several sections:

- Top Bar:** Contains navigation tabs like 'Recepção', 'Vistorias', 'Entidades', 'Historia', 'Manutenção', and 'Liquidação'. It also shows user information like 'Porto', 'Est', and 'Sair'.
- Vehicle Identification:** A large box displays the license plate '62-PE-49' and the vehicle make 'TOYOTA'.
- Form Fields:** Various input fields for 'Placa', 'Marca', 'Modelo', 'Ano', 'Tipo', 'Categoria', 'Cidade', 'Estado', 'CPF', 'Nome', 'Endereço', 'Telefone', and 'Email'.
- Service Selection:** A dropdown menu for 'Serviço' (Service) with options like 'Inspeção', 'Vistoria', 'Manutenção', and 'Liquidação'.
- Price Calculation:** A section showing 'Valor' (Value) and 'Total' (Total) with a calculated amount of '31,11 €'.
- Payment Method:** A section for 'Forma de Pagamento' (Payment Method) with options like 'Dinheiro', 'Cartão', and 'Boleto'.
- Document Generation:** A section for 'Documento' (Document) with a dropdown menu for 'Tipo de Documento' (Document Type).
- Footer:** A small bar at the bottom containing copyright information and contact details.



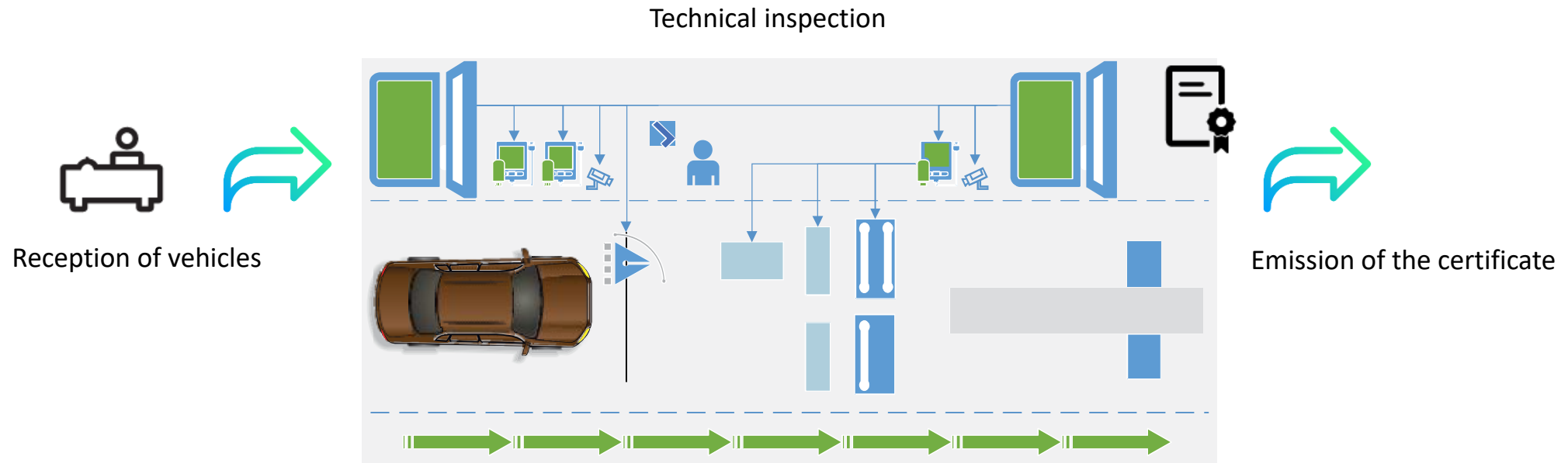


Technical area - Inspection Line

The technical area of periodic inspection in the line, is divided into 5 major phases:

- Start inspection;
- Attribution of visual disabilities;
- Tests with mobile Equipment (Gas Analyzer, Smokemeter and Headlighter);
- Tests with Ground Equipment (Side-Slope Tester, Suspension and Brake-Tester);
- Inspection Close.

(The order of these phases is configured through the procedure adopted by each company/Inspection Center.)



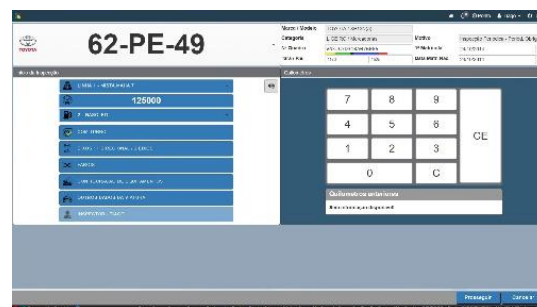
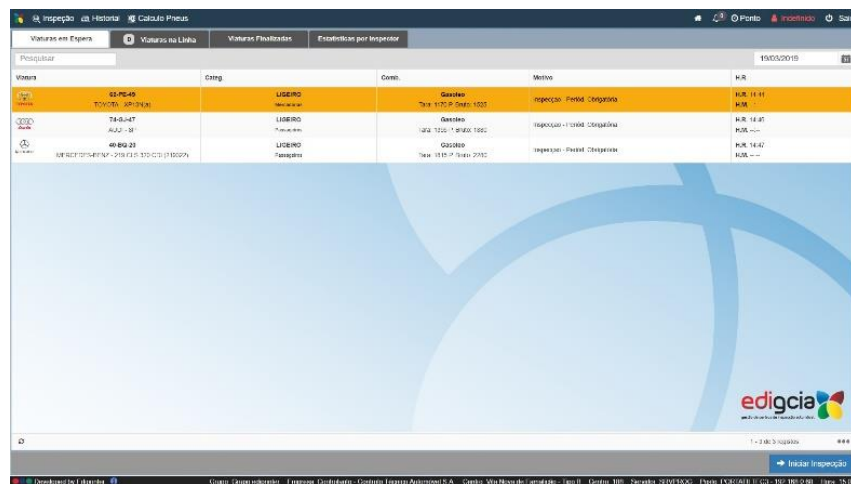


Technical area - Inspection Line

Start Inspection

From any computer or mobile device, on the inspection line, the inspector has access to all vehicles that have been registered in the administrative area, and are on hold to initiate inspection.

To initiate an inspection on the line, the inspector must select the license plate and perform the validation with its password, RFID card or biometric recognition.



Main features:

- It is possible to set up inspector locks for certain inspections and certain vehicles;
- Selection and assignment of the control line;
- Recording of the kilometers of the vehicle;
- Verification / configuration of vehicle headlights;
- Check / configuration of the axes of the vehicle;
- Verification / confirmation of tests to be performed;
- Possibility of correction of the vehicle data.





Assigning visual defects

From a computer or any mobile device, in the inspection line, the inspector as inspecting the vehicle, can immediately assign the detected defects in this area, avoiding the use of a paper checklist, speeding up In this way the entire visual inspection process



Main features:

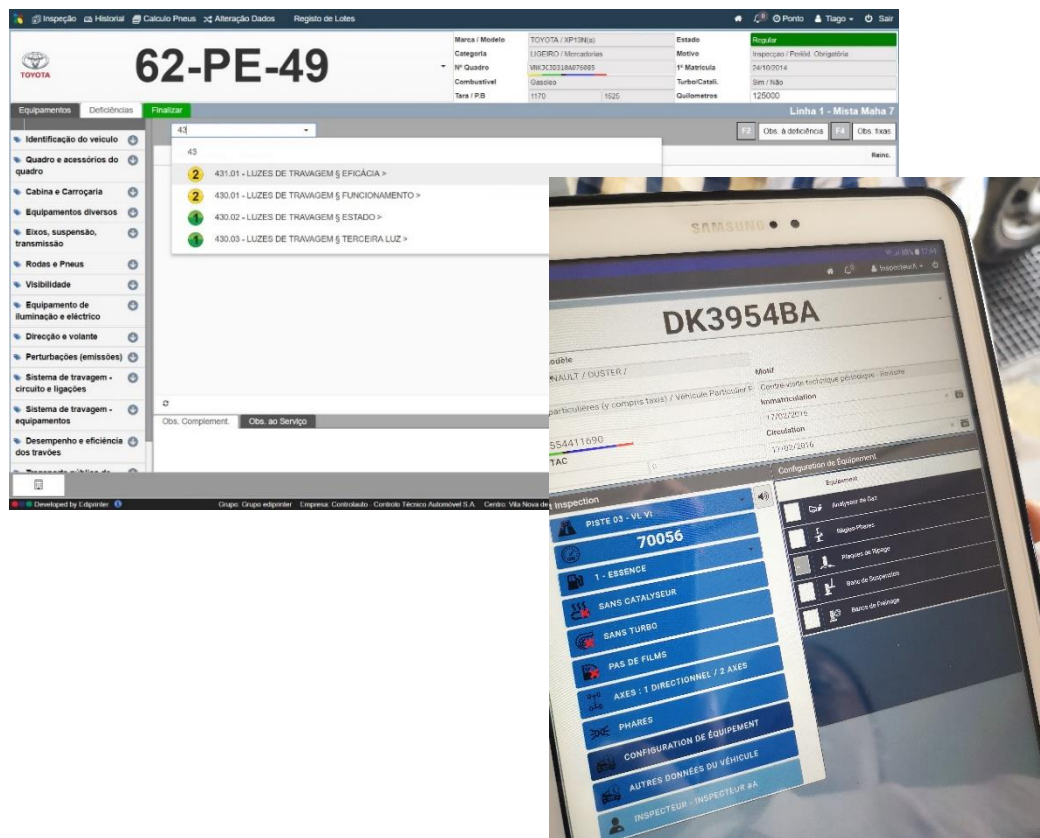
- All defects that can be manually assigned are common to all inspection centres;
- The definition of defects are parameterised for all inspection centres by the regulatory body;
- The management of any changes or implementation of new defects is the responsibility of the regulatory body and once changes are made, they are immediately and automatically available to all inspection centres at the same time;





Technical area - Inspection Line

Assigning visual defects



Main Features:

- Possibility of assigning disabilities in a computer or mobile device;
- Requires access level for disabilities removal;
- Quick Search by code or description of disabilities;
- Possibility to indicate free observations to the inspection, as well as to define fixed observations to each disability;
- When using a mobile device, there is a possibility to take one or more photos and associate it with an applied disability.

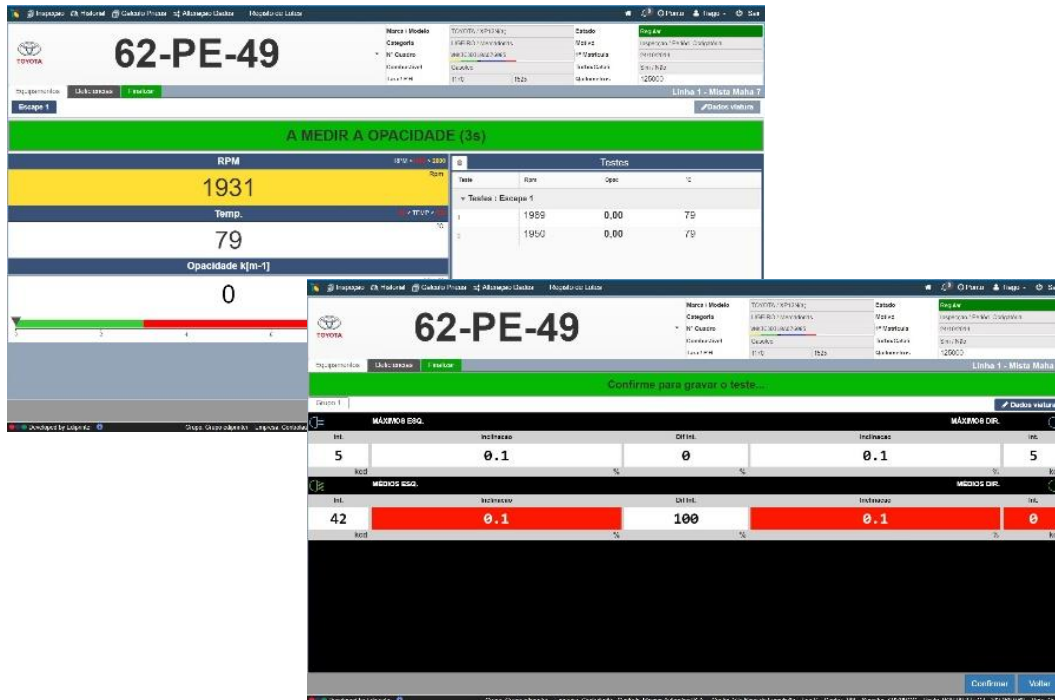




Inspection Line – Direct (online) Integration

Tests with mobile equipment (test of temperature, gaz, lights and sound)

At this stage the inspector selects the test to be performed (by mandatory tests). The tests are visualized on the computer or mobile device on the line, indicating to the inspector the procedures to be performed, thereby optimizing the entire inspection process with these equipment's.



Main Features:

- Force the inspectors to use the same method of work defined by the company;
- Automatic allocation of disabilities (if any) at the end of the test;
- Requires access level for disabilities removal;
- Requires access level for complete repetition of the test;
- Display of tests on the screen, with online information of the collected values.





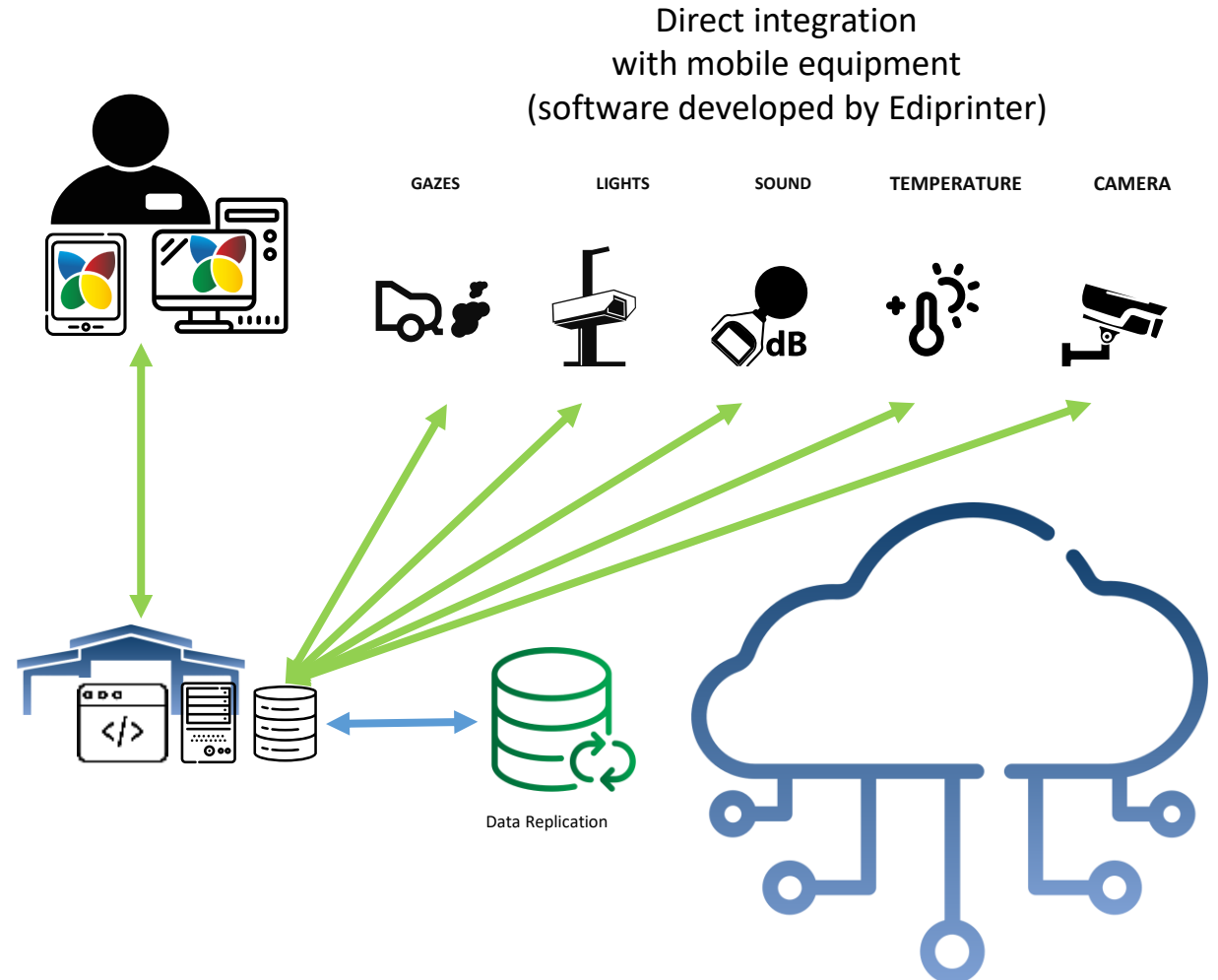
How does it work?

Direct Integration:

The EDIGCIA 8 software communicates directly with the electronics of the mobile equipment and in real time during the test, it automatically displays and saves the values of each test in a Database.

With direct integration with equipment, it is not possible to change the collected values.

All communication between the equipment and the software is encrypted during reading and transmission, and it is only possible to view the values with the Edigcia8 application, with the necessity of the software of the manufacturers.





Tests with fixed equipment (ground equipment):

At this point, the inspector passes the test on the ground / fixed equipment.

All tests are performed on the manufacturer's software and are then automatically integrated into the EDIGCIA software.

Tests to perform:

The Side-Sliper Tester aims to perform a quick and effective verification of the geometry of the front and rear axles. The system consists of a platform to perform the measurement, where circulate the wheels of the vehicle of different axes.

The main purpose of the suspension bank is to conduct a quick and effective analysis of the suspension of the vehicle.

It is performed by measuring the wheels of each axis individually using the Eusama method. The visualization of results is graphic and numerical and shows the effectiveness of the suspension of each wheel and the percentage difference between wheels.

The main goal of the Brake-Tester is to perform a quick and effective check of the state of the brakes, accurately measuring the maximum braking on the front and rear axles, handbrake as well as the ovalization existing on the discs and drums of the brake system.

The EDIGCIA 8 software has communication protocols developed with the main equipment manufacturers:

MAHA; CAPELEC; RYME; ACTIA; COSBER; VTEQ; CARTEC.



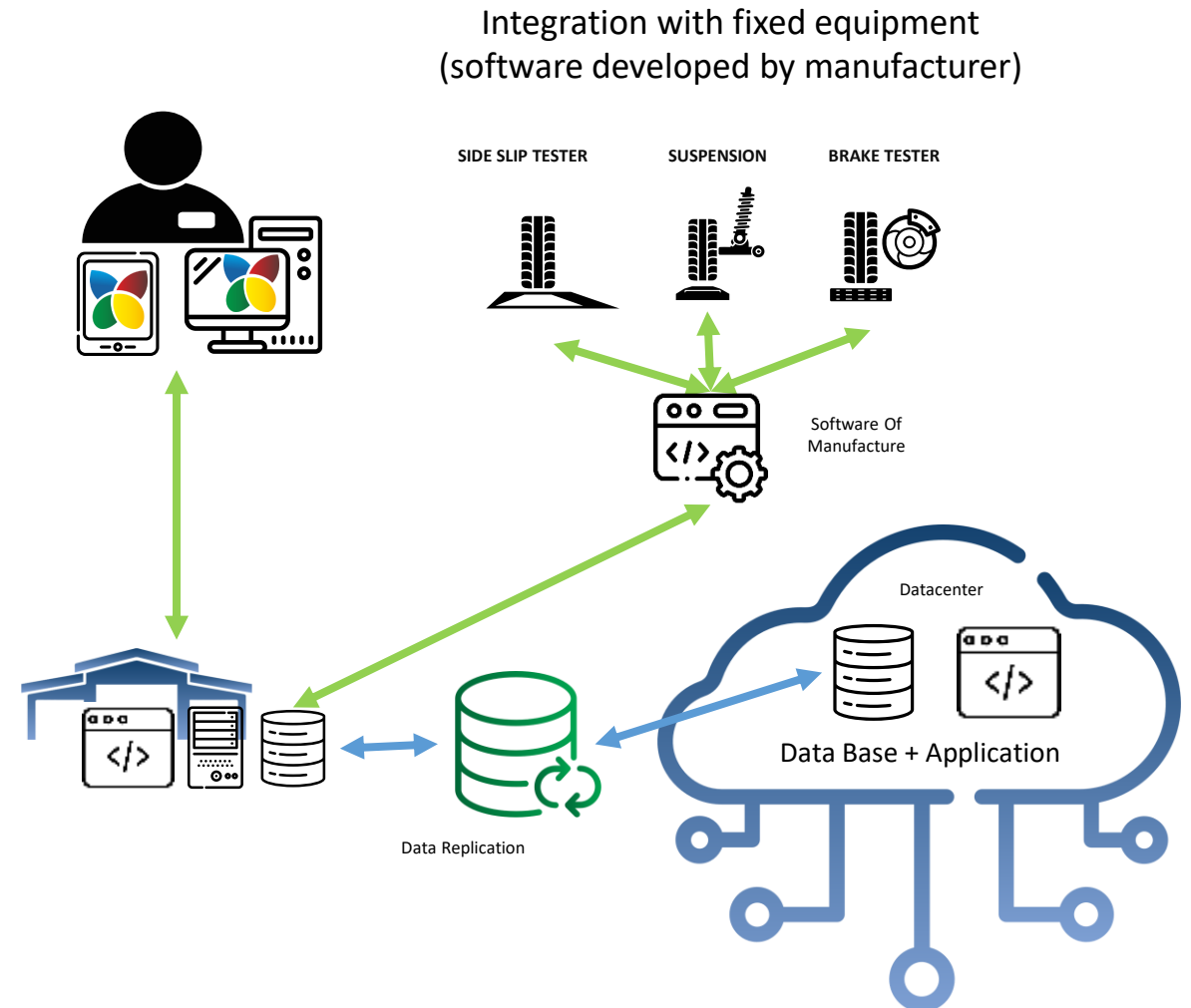


How does it work?

Integration with fixed equipment:

EDIGCIA 8 automatically sends the registration number (licen plate) to inspect the fixed equipment software. The tests are carried out in the Manufacturer's software and after finishing, a standardized file is deposited that is automatically collected by EDIGCIA8 and saved in the Database.

Once the fixed equipment tests are imported, they are registered in the Database, it is not possible to change any type of value, making Edigcia 8 evaluate the data and automatically assign defects if any.





Inspection Line - Equipment Integration

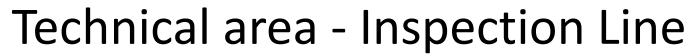
Main advantages:

- There is no printing in the inspection line, documents;
- No need for printers in inspection lines;
- Streamline the entire inspection process;
- Automatic assignment and error defects detected in the inspection line equipment: Plate of shifting, braking test bench roller test bench for amortization of axles, Gas Analyzer Diesel Analyzer e Gas e Headlighter;
- Vehicle registration and other data entered manually at the beginning of the inspection to be printed are automatic and collected at the reception, avoiding errors when entering data. Data redundancy ceases;
- The error ceases because the supervisor does not mention a deficiency that appears in the equipment report, since the attribution of the deficiencies is automatic and through the values collected on the machines;
- The printing of the machines becomes more complete, in addition to the collected values of the equipment, it always has the following information which is automatic:
 - Complete owner information (name and full address);
 - All the most important or mandatory data on the vehicle;

Advantages of mixed integrations with mobile equipment:

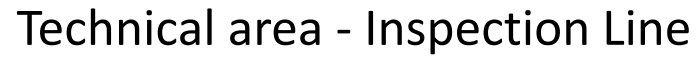
- Possibility of working with different brands of mobile equipment;
- Easy replacement of equipment;
- Possibility to use the same equipment simultaneously on more than one line (Example: Headlighter, Thermometer, ...)





It is at this stage that the Inspector finalizes the inspection. This procedure can be performed on a computer installed at the end of the lane or on any mobile device (Tablet or mobile phone), and has the main purpose of issuing the official inspection certificate. After performing the final test on the inspection lane, the inspector can immediately collect all the tests in the Lane equipment. After this option is active, the system collects all the data, analyzes the results and automatically assigns the defects evidenced in the tests of the equipment (these disabilities cannot be removed by the inspector, as they derive from the test results – this option is configurable).





- Automatically assigns equipment defects;
- Automatically assigns the inspection result (approved/failed);
- Automatically assigns inspection validity (next service date);
- Automatically assigns the official certificate number (if it exists and may vary from country to country).



Equipment Maintenance and Calibration

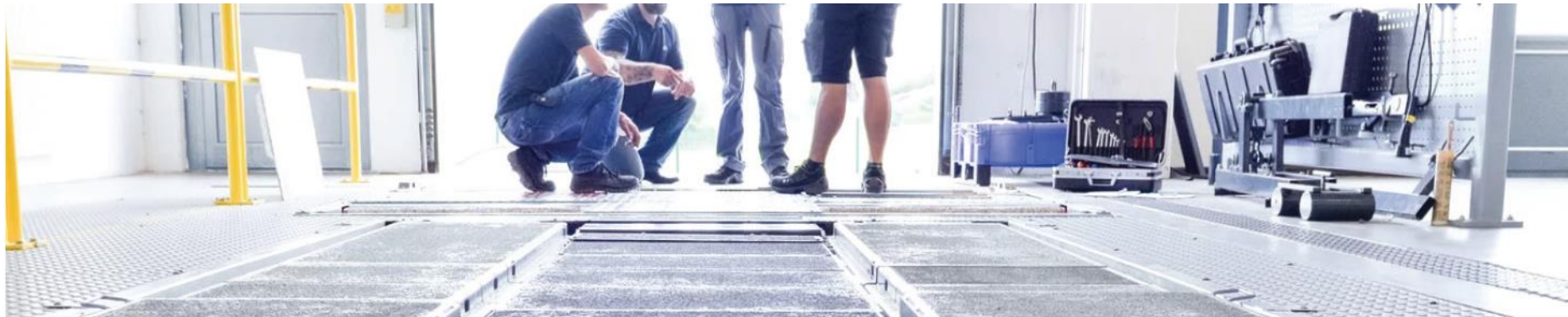
With Edigcia 8 it is possible to manage equipment in the scope of Maintenance and Calibration.

The objective is to electronically manage, organize and control maintenance and calibration operations, dematerializing processes and eliminating all existing paper records, also contributing to the reduction of ecological housing.

Effective maintenance control has a direct effect on increasing the productivity of inspection lines and users.

To ensure greater reliability of inspections, Edigcia allows those responsible for calibration to have access to the application so that each time calibrations are performed, recording the respective calibration data, documentation and their validity.

Whenever situations of equipment whose calibrations/maintenance are not in accordance with the required criteria are recorded, the software can prevent the use of the line, blocking it.





Equipment Maintenance and Calibration

Functionalities:

Equipment Management

- Type of equipment;
- Estado
- Brand and model;
- Provider;
- Date of acquisition;
- Movements (entries, exits, stock);
- Equipment per inspection line.

Digital Archive

- Equipment manual;
- Maintenance procedures;
- Calibration/Verification Report;
- Calibration/verification certificate;
- Functional certification certificate.

Maintenance

- User/Profile responsible for maintenance;
- Maintenance tasks;
- Maintenance plan and periodicity;
- Type of maintenance;
- Maintenance Registration.

Alerts

- Deadlines Validity for users;
- Maintenance Validity Periods;
- Calibration validity periods.

Calibration

- User/Profile responsible for the calibration;
- Calibration Entities;
- Calibration and periodicity plan;
- Type of calibration/verification;
- Maintenance Calibration.

Listings/Reports

- By equipment/line/status;
- Calibration Plan;
- Maintenance plan;
- Calibration/verification labels.

Administration





Administration

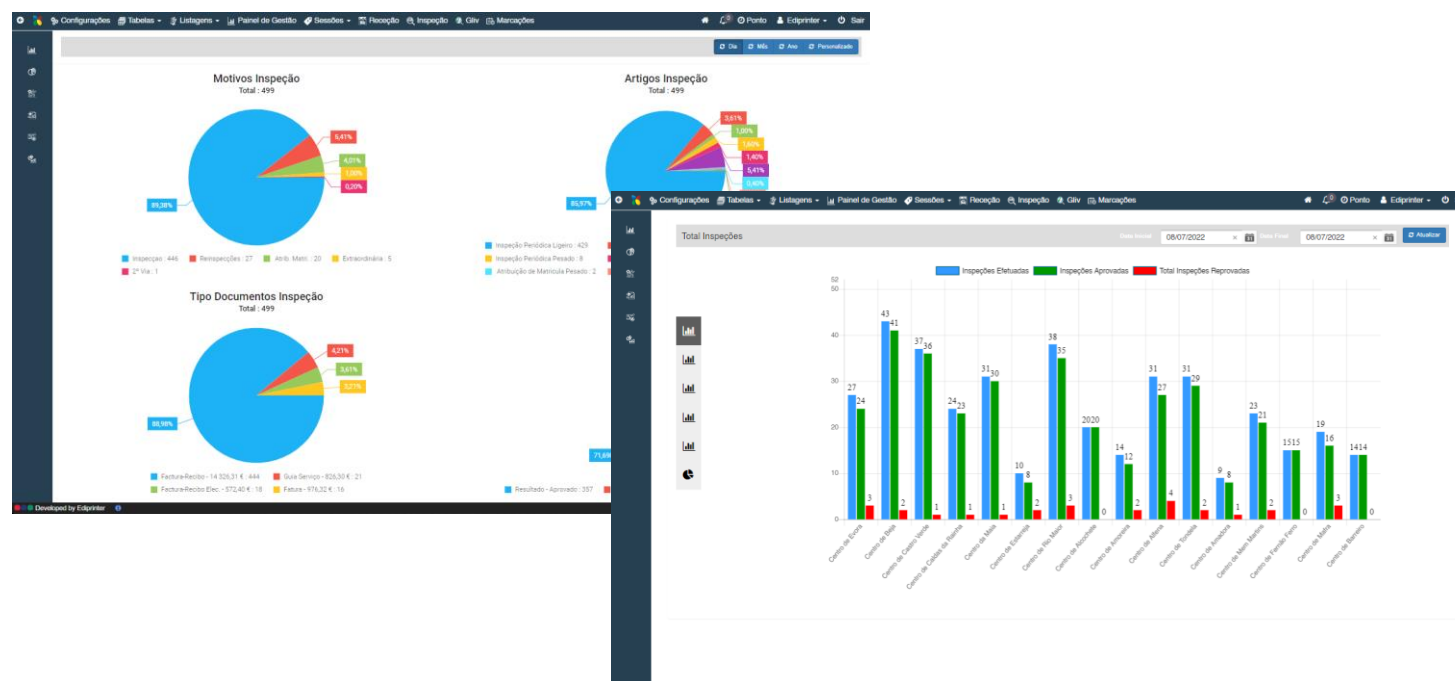
The administrator of the center or group of inspection centers, with this integrated solution for the management of vehicle inspection centers, has developed options that allows him to:

► Issuance of all listings, statistics and grafics. All listings are possible to view on the screen, print or send to PDF files. For each listing there is the possibility of several parameterizations, for example: (between dates, between entities or by entity, by license plate, for inspection, by document, by Inspector, etc.).

- Billing listings;
- Current account listings;
- Listing of Made Inspetions;
- File listings;
- Statistical grafics;
- Comparative analysis.

► Management of Cash Sessions:

- Opening Session;
- Closed Cassier;
- Closed Session.





Administration

- Maintenance of auxiliary tables, such as:
 - Clientes, outras entidades, códigos postais, concelhos;
 - Customers, other entities, postal codes, counties;
 - Vehicles, brands, models, categories;
 - Articles (price), document types, banks;
 - Users, disabilities, motives for annulment;
 - Line Equipment integrations settings
- Management of all application settings
 - Access levels;
 - Setting up printers and editing document layouts;
 - All certificate models, listings and inspection reports;
 - All tax documents;
- Maintenance and full configuration of the application;
 - Possibility of biometric login or password;
 - Access to several document control grids and inspection control
 - Access to a graphics module;
 - Annual, monthly and daily analyses;
 - Dynamic analysis;
 - Analysis by Inspector;
 - Annual comparison analysis.

The first screenshot shows the 'Relatório de Valores em Dívida' (Debt Value Report) for EDIPRINTER, Lda. It displays document details like 'Estado do documento à data: 28/02/2019' and a table with columns: Emissão, Vencimento, Atraso, Vistoria, Documento, Valor, Pendente, Pago, Estado, Liquidação.

The second screenshot shows the 'Mapa de Serviços' (Services Map) for EDIPRINTER, Lda. It displays document details and a table with columns: Inspeção, Motivos, Data-Hora, Ordem Por, Resultados, A e R.

The third screenshot shows the 'Mapa 1 - Momentos de Inspeção e Vistoria' (Map 1 - Inspection and Audit Moments) for EDIPRINTER, Lda. It displays a complex table with multiple columns for inspection and audit data, including dates, times, and various status indicators.

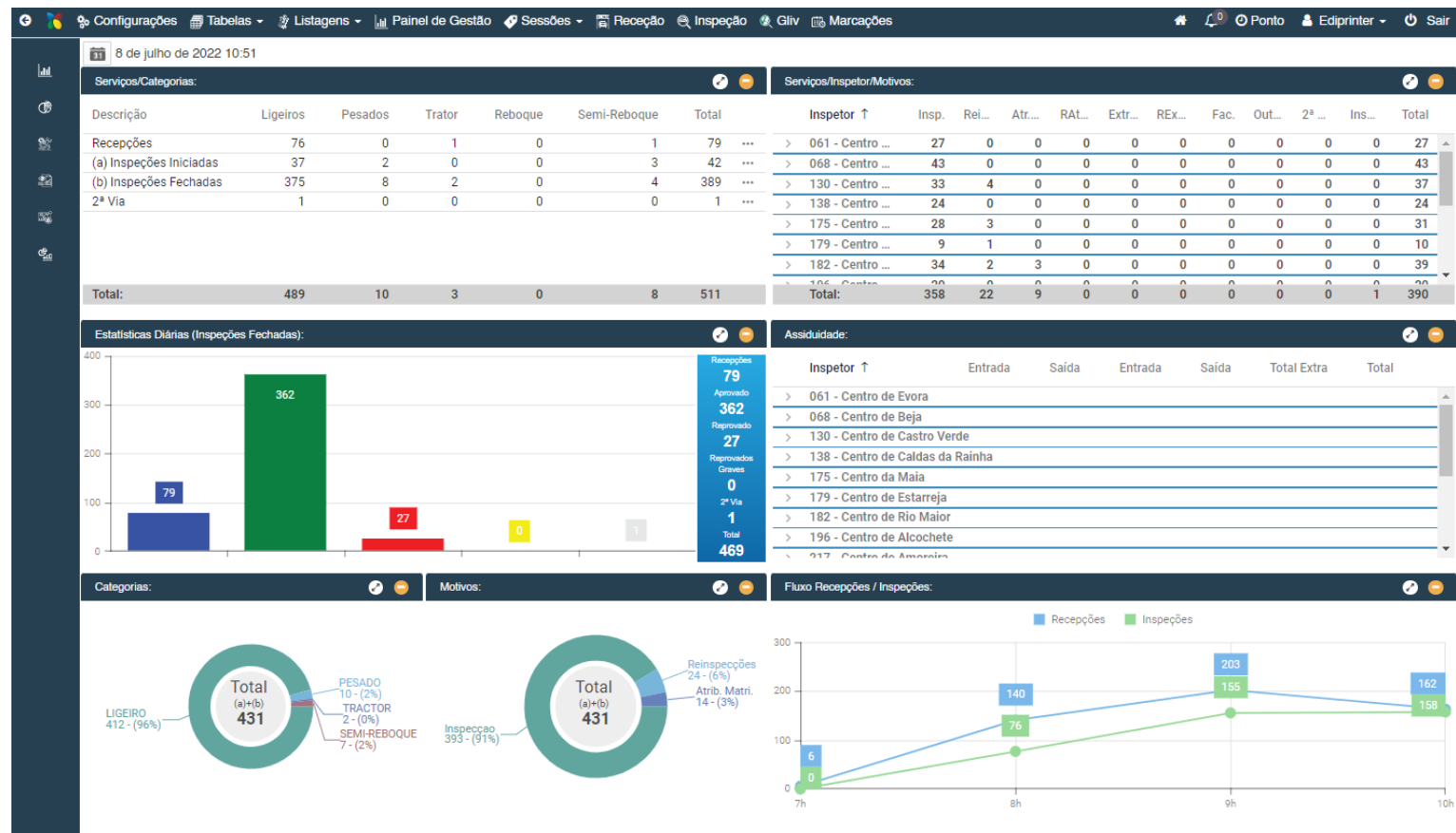




Administration

Management Dashboard

- Services performed by categories;
- Services performed by inspector/motive;
- Daily Statistics (services);
- Flow Reception/Inspection;
- Statistics; Categories/Motives





Administration

Management Dashboard

- Waiting vehicles;
- Vehicles on the Lanes;
- Control Inspectores productivity

Configurações

Tabelas

Listagens

Painel de Gestão

Sessões

Receção

Inspeção

8 de julho de 2022 10:52

Auto Refresh (60 s)

Veículos em Espera:

Centro: 084 - Aboboda (Total: 5)

58-HZ-86

10:33 - Inspe. | Perió. Obrig.

25-30-TS

10:42 - Reins. | Proc. IPO

50-ZA-82

10:44 - Inspe. | Perió. Obrig.

05-PC-88

10:45 - Inspe. | Perió. Obrig.

1

2

3

Veículos na linha:

Centro: 067 - Loures (Total: 1)

39-RP-80

10:44 17

Inspe. - Perió. Obrig.

Centro: 084 - Aboboda (Total: 1)

43-LX-17

10:53 2306

Inspe. - Perió. Obrig.

39-IC-48

10:49 1453

Inspe. - Perió. Obrig.

1

2

3

Controlo Produtividade Inspectores:

Código	Nome	Estado	Tempo	Total Dia	Total Hora	Ini. Período	Fin. Período	Em Curso	H. Entrada	1ª Insp.	H. Almoço	1ª Insp.
2306 (A)	Luis Jordão	⌚	10:48 ± 0 min.	7 (max: 36)	4 (max: 4)	09:48	10:47	⌚ ± (-4 min.)	08:47	08:57		
1453 (A)	Fernando Kline	⌚	L2	3 (max: 36)	3 (max: 4)	09:48	10:47	⌚ ± (0 min.)	09:33	10:00		
17 (A)	Paulo Mota	⌚	10:53 ± 4 min.	7 (max: 36)	4 (max: 4)	09:48	10:47	⌚ ± (4 min.)	07:52	08:12		
1923 (C)	Paulo Gama	✅	2 min.	2 (max: 18)	1 (max: 4)	09:48	10:47		07:18	08:26		
2073 (C)	Rodrigo Branco	✅	37 min.	7 (max: 36)	1 (max: 4)	09:48	10:47		07:46	08:05		
2955 (A)	Nuno Rebelo	⌚	11:01 ± 12 min.	11 (max: 36)	4 (max: 4)	09:48	10:47		07:52	08:06		

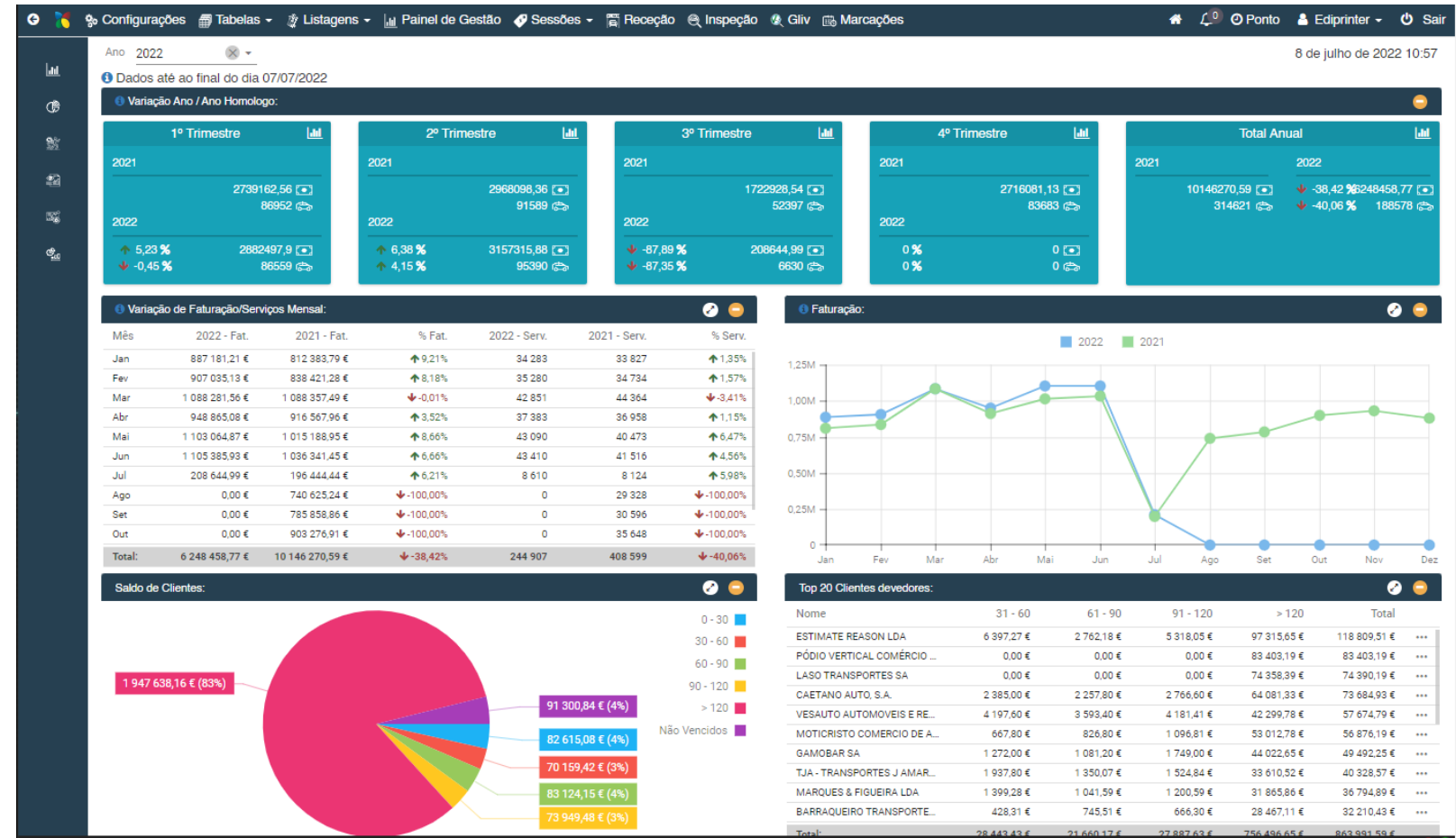




Administration

Management Dashboard

- Financial Statistics:
 - Billing variation/monthly Services;
 - Billing (years);
 - Costumer balance;
 - Top 10 – debtor customers





Administration

Management Dashboard

- Various analysis graphics between dates





Post Sales (Support / Technical Assistance)

Support / Technical Assistance:

EDIPRINTER guarantees assistance/support during the company's opening hours.

However, creating a team on the ground for the 1st level of assistance in order to overcome time and language problems is important.

Ediprinter guarantees advanced training to the first level team belonging to the local organization.

We have a permanent Help-Desk team, for remote support, telephone, WhatsApp and email.



Edigcia 8 – Some Reference Clients





Thank you!

Ediprinter – Soluções de Informática, Lda

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4480-620 Árvore Vila do Conde - Portugal

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Fax: +351 252 248 831

E-mail: comercial@ediprinter.pt

Beatriz Rodrigues
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