

visionary
intelligence

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IPS nasce nel 2000 come azienda specializzata nello sviluppo di soluzioni e fornitura di servizi per il settore della **Cyber Security** ed è oggi una importante realtà nazionale parte di un gruppo di circa 200 unità.

Il know-how acquisito negli anni e una struttura di qualificati progettisti hardware e software consentono ad **IPS** di offrire soluzioni e prodotti con tecnologia proprietaria nei settori della

Communication Security e dell'**Electronic Surveillance**.

La Società si distingue per l'integrazione di competenze in ambito **IT, Reti, Security e Media** e per la continua innovazione tecnologica che le consente di confrontarsi con la crescente esigenza di soluzioni multimediali.

LA NOSTRA VISIONE

"Realizzare un **progetto industriale** che sviluppi **tecnologie innovative**, rafforzando il rapporto di **fiducia** con il cliente, grazie alla continua crescita dell'azienda e dei suoi uomini, ponendo la correttezza e la **serietà** professionale come **valori imprescindibili e prioritari** rispetto a qualsiasi opportunità di business.

IPS has been established in 2000 as an independent private company to develops solutions for Cyber Security and it is part of a group counting around 200 people.

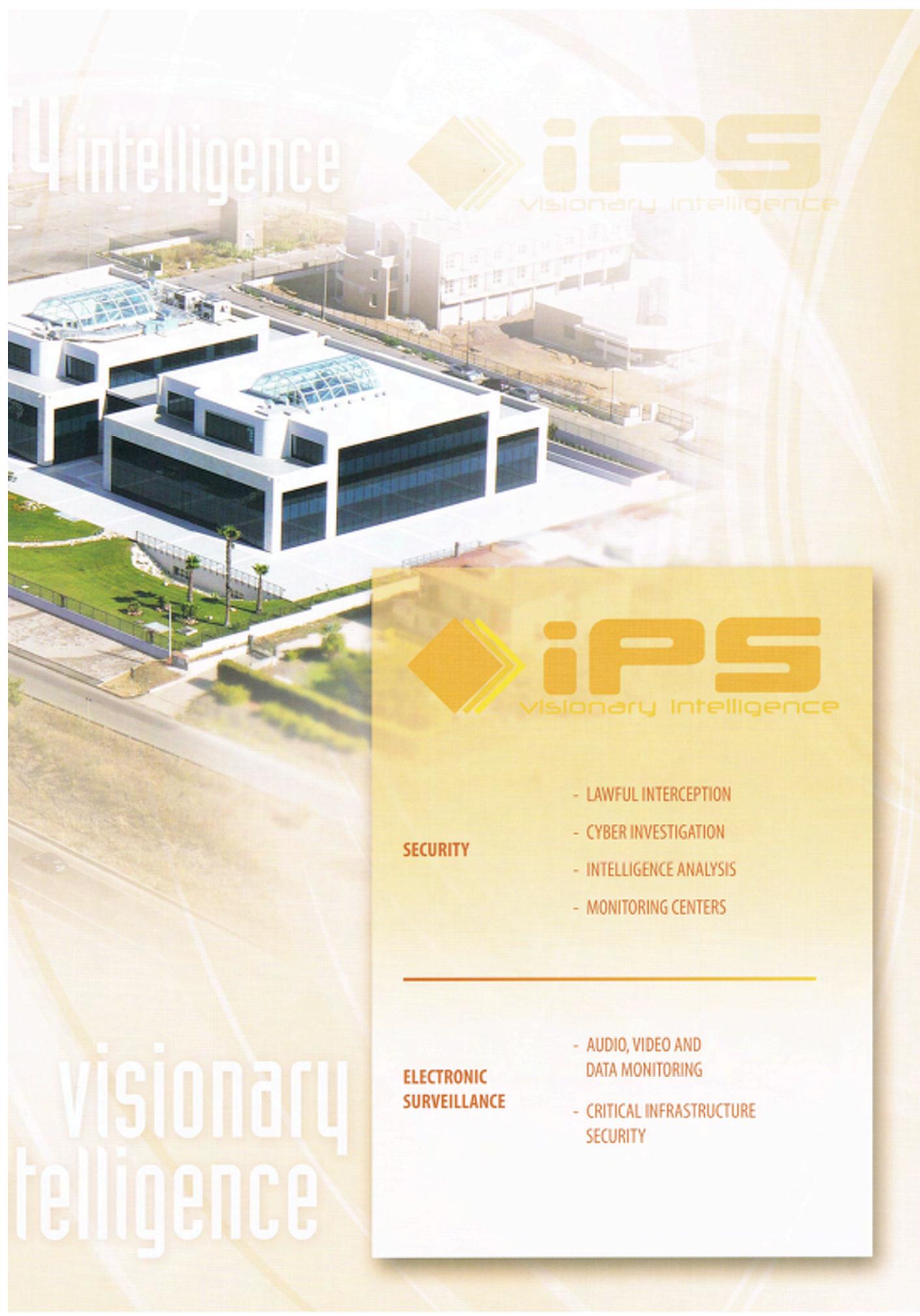
Thanks to its know-how and high qualified hardware and software engineers IPS is a technology industry that designs and manufactures products and solutions for Communication Security, cyber investigation and Electronic Surveillance sectors.

By integrating its capabilities in Networking, Security, IT and Media and through a continuous technology innovation IPS can fulfill the market growing need of multimedia solutions.

OUR VISION

"To carry out an industrial project, by developing innovative technologies, with the aim of strengthening the customers' trust, thanks to the continuous growth of the company and its people, placing honesty and reliability as fundamental values, beyond any business opportunities".





Intelligence

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SECURITY

- LAWFUL INTERCEPTION
- CYBER INVESTIGATION
- INTELLIGENCE ANALYSIS
- MONITORING CENTERS

ELECTRONIC SURVEILLANCE

- AUDIO, VIDEO AND DATA MONITORING
- CRITICAL INFRASTRUCTURE SECURITY

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Via Monticello, 7 - 04011 Aprilia (LT) - ITALY
Tel. +39 06.92710.500 - Fax +39 06.92710.501
info@ips-intelligence.com
www.ips-intelligence.com

GENESITM Monitoring Centre is an innovative centralized system, supporting the Law Enforcement Agencies investigations to manage in a unified manner audio, video and data interception as well as telephone Call Detail Records and Log Files analysis.

It is an integrated solution capable of handling different interception technologies such as Audio, Video and Data Communication coming from surveillance equipment as well as all the current network technologies including PSTN, ISDN, ADSL, GSM, GPRS, UMTS, Internet, etc. assuring data security and integrity and at the same time bringing a significant cost reduction for the government administration.



Thanks to **GENESITM Monitoring Centre** the Law Enforcement operator can benefit from a unified system having a single graphic interface to:

- view the list of communications (voice, fax, Internet, etc.) made by each target;
- listen and view in real time or off-line telephone calls (fixed, mobile and UMTS videocalls);
- view in real time and off-line data communications (Fax, Sms, Videoconference, Internet, etc.);
- listen/view audio/video from surveillance devices such as Microphones, GPS tracking devices or TVCC;
- analyze CDR and log files.

The **GENESITM Monitoring Centre** modularity allows the deployment of small to large LEMF according to customer requirements and communication infrastructure.

The system consists of the following main modules:

- acquisition front-end;
- recording and management server;
- operator workstations for playback and analysis.



Front End

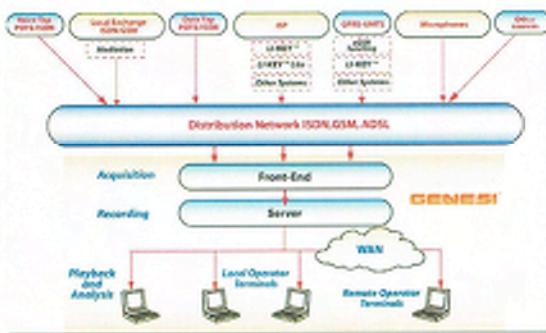
Front Ends are made of modules capable of hosting many interface cards to be connected to the distribution network through which they receive intercepted communications.

Recording and Management Server

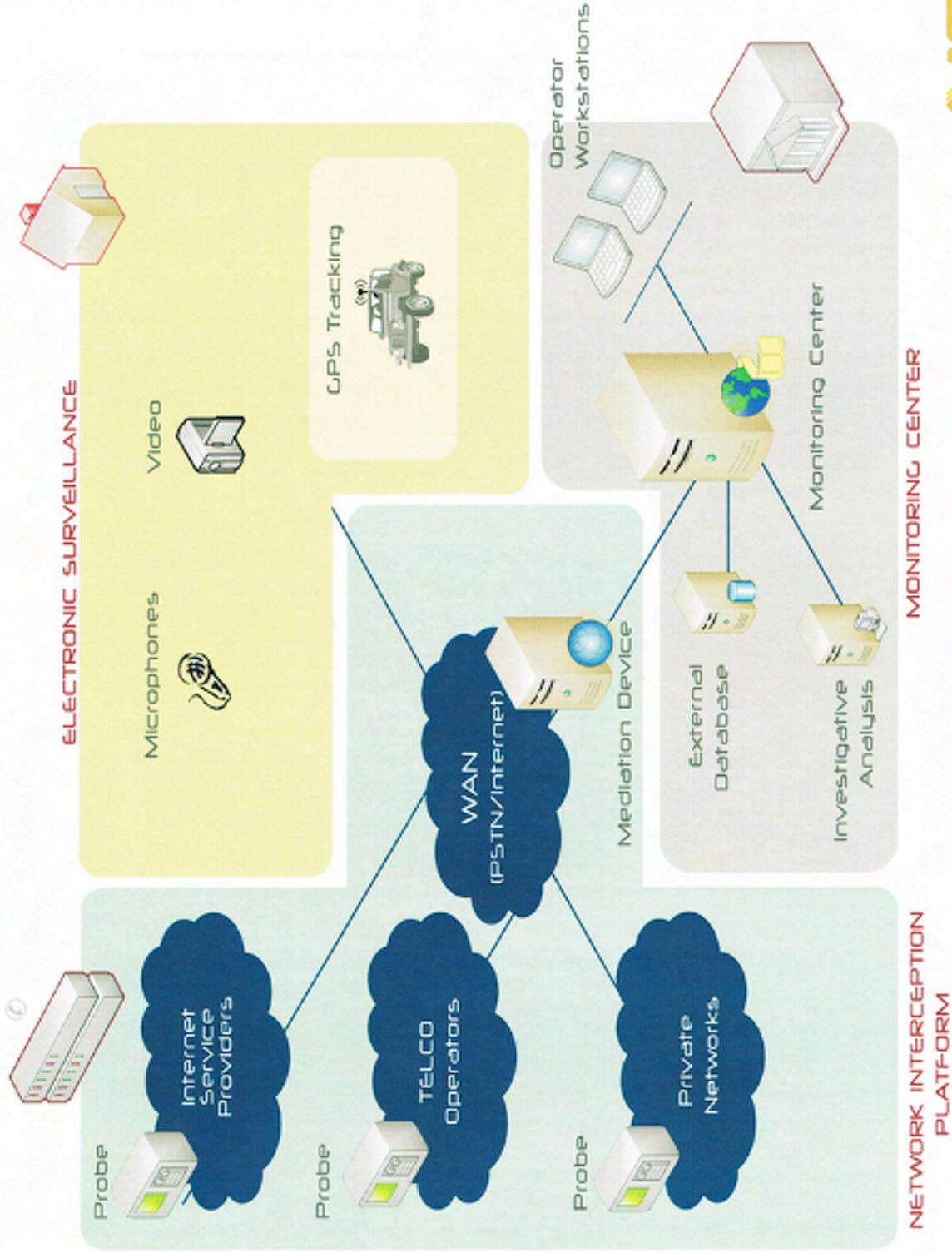
This is the heart of the system, which receives from the Front Ends the content of Audio, Video & Data Communication (CC), the Interception Related Information (CDR or IRI) and stores everything in its centralized DB.

Operator Workstation

It interacts via LAN/WAN with the Server component and allows playback of Audio, Video and Data (Fax, Sms, Videocalls, InternetTraffic,...) both real time and off-line. Thanks to a multimedia application the Law Enforcement operator can watch web pages, play Audio/Video, analyze CDR, etc. according to its specific user profile.



GENESI™ Platform

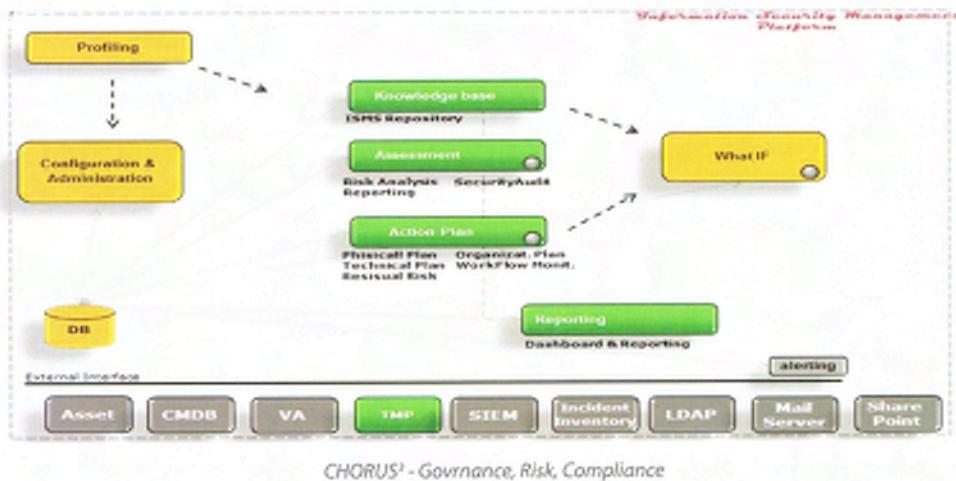


iPS
Intelligent Intelligence

- CORRELATION BETWEEN PROCESSES AND INFORMATION ASSET
- CENTRALIZED GATHERING OF VULNERABILITIES, THREAT AND INCIDENTS
- RISK AND COMPLIANCE LEVELS MANAGEMENT
- KEY RISK INDICATORS

GRC Solution - Governance, Risk Management & Compliance - gathers all the necessary information to manage the security of an organization. Using GRC the company is able to perform an assessment, to identify the compliance levels compared to a predefined metric, to discover vulnerabilities (technological, organizational and physical), to compute the risks and find the right treatment and countermeasures referring to the national and international standards and regulations.

Risk Analysis module includes several libraries to make risk analysis. Libraries are completely customizable through the platform management module. This module allows customers to select specific libraries or personalize themselves, according to their specific needs. Every requirement, addressed by standards and law, generates different countermeasures for each kind of asset or stream (physical, organizational or logical security).



CHORUS³ is a GRC system that manages in a centralized way the risk related to the information (information asset), in accordance with the standard ISO27000 family, providing indicators on the compliance to law and security standards (ISO, PCI DSS).

RISK ASSESSMENT (RA)

The methodology used by this module allows to calculate the risk based on critical asset (information contained on it), threats (technological, physical and organizational), vulnerabilities and countermeasures.

CHORUS³ calculates risks coefficients for each security requirement (Confidentiality, Integrity and Availability).

CHORUS³ works with areas called contexts (i.e. a treatment, a process, one single service, one application or a platform) on which it is possible to perform an assessment in different sessions to trace risk evolution over time.

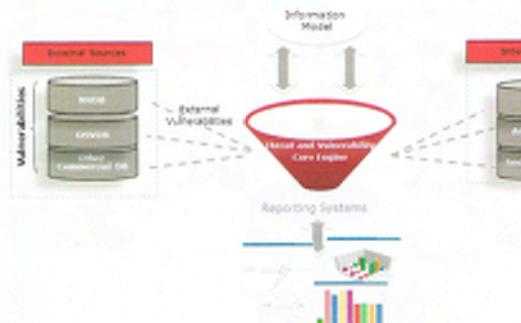
Everything is processed following the ISO27005 standard.

CHORUS³ allows to automatically compute technological vulnerabilities that are on the systems through the relation between internal Vulnerability Assessment (VA) Systems and external information sources like NVDB and NIST.

Based on the VA and the update of the vulnerability DB, the platform allows, in an automatic way, to trace new vulnerabilities (CVE) with high Exposure Factor (calculated following the CVSS standard).

It allows to find the technological risk, ensuring an automatic and objective risk update.

The module publishes the reports and the indicators following a scheduled timesheet.



COMPLIANCE & AUDIT

Auditing & Compliance module provides libraries for Gap Analysis activity and compliance management.

It is able to manage a complex audit process (of a service, an area, a function, an application, a system), including different rules with different grants inside the company.

different roles, with different grants inside the company. CHORUS³ manages the startup of an audit campaign, centralizing all the audit information based on the answers gathered, the compliance diagrams compared to the security baseline. With this module customers can define their own baseline on which to do the audit. (f.i. internal policies, etc.)

WHAT IF ANALYSIS

WHAT IF ANALYSIS
With this module customers can perform analysis of the treatment scenarios: the platform, considering the non-compliance and the risks found, proposes the necessary treatments and allows to simulate the risk decline to identify the best treatment plan to be applied.

ACTION PLAN

ACTION PLAN
The module, after the approval of the risk treatment plan, can schedule it giving priorities, times resources, responsibilities, detailed actions. This module also allows monitoring the progress of the plan and the impact on the risk matrix and on the residual risk.

The platform provides several reports and templates that can be customized in a very simple way.

SECURITY KNOWLEDGE BASE

The module publishes all the information on indicators, risk analysis reports, treatment plans, residual risks matrix, support documentation, ISMS policies and procedures.

BIA

The methodology used by this module is based on the ISO27001, BS25999, ABI LAB standards, and gives the economic loss for each systems stop over time.

With this module customers can estimate the financial impact every time a service stops.

Based on this analysis customers can give priority to their investments in the technological infrastructure.

The module gives all the information to implement the best Business Continuity Strategy.

DASHBOARD & REPORTING

This module is a DSS (Decision Support System): it allows navigating the internal CHORUS³ DB to calculate the risk indicators (KRI). The module allows creating metrics and elements that aggregated provide graphical KRI.

GENESITM Monitoring Centre is suitable to support LEAs for tactical, logistic and investigative operations such as:

- Audio, Video & Data Monitoring
- Critical Infrastructure Security

Bugging devices rightly positioned in the subject environment are able to send intercepted data to **GENESITM** Monitoring Centre to be processed and analyzed.

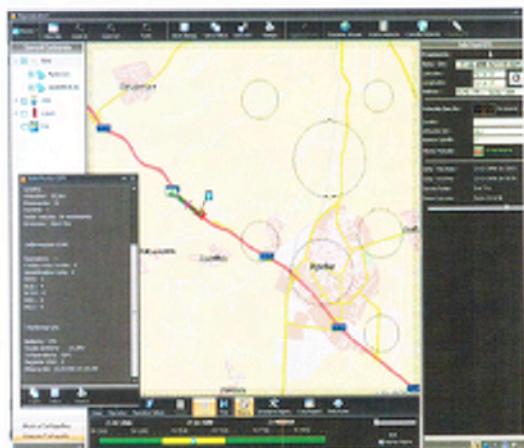
These devices allow the following activities:

- GPS Tracking
- Audio Monitoring
- Video Monitoring

GPS Tracking

Tracking of targets can be done in a real time mode correctly installing GPS bugging devices that transmit to the Monitoring Centre positioning information:

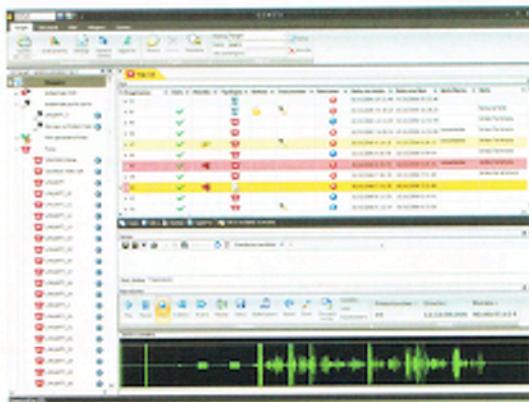
- Simultaneous multi-targets tracking;
- Possibility of immediate bug freezing (useful for anti-scanning detection);
- Remote performances tuning through DTMF tone sequences to be transmitted to the bug itself;
- Possibility to define areas of interest and get alerts on targets entering in those areas;
- Up to date cartography and localization software;
- Status parameters available for real time system check (battery level, ...).



Audio Monitoring

Voice can be gathered by the use of enhanced set of different microphones transmitting in real time all the captured audio to the Monitoring Centre via fixed or mobile networks.

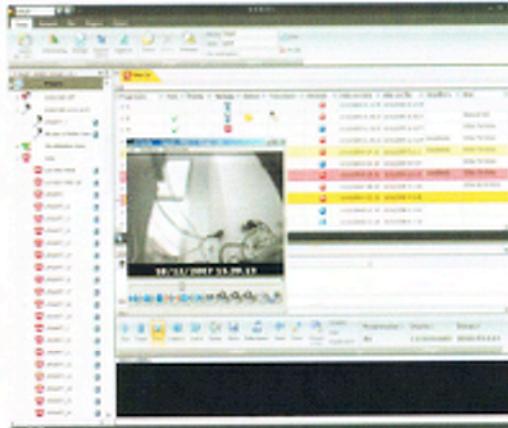
The **GENESITM** Monitoring Centre also allows to configure the functional parameters of bugging devices as well as to upgrade their firmware.



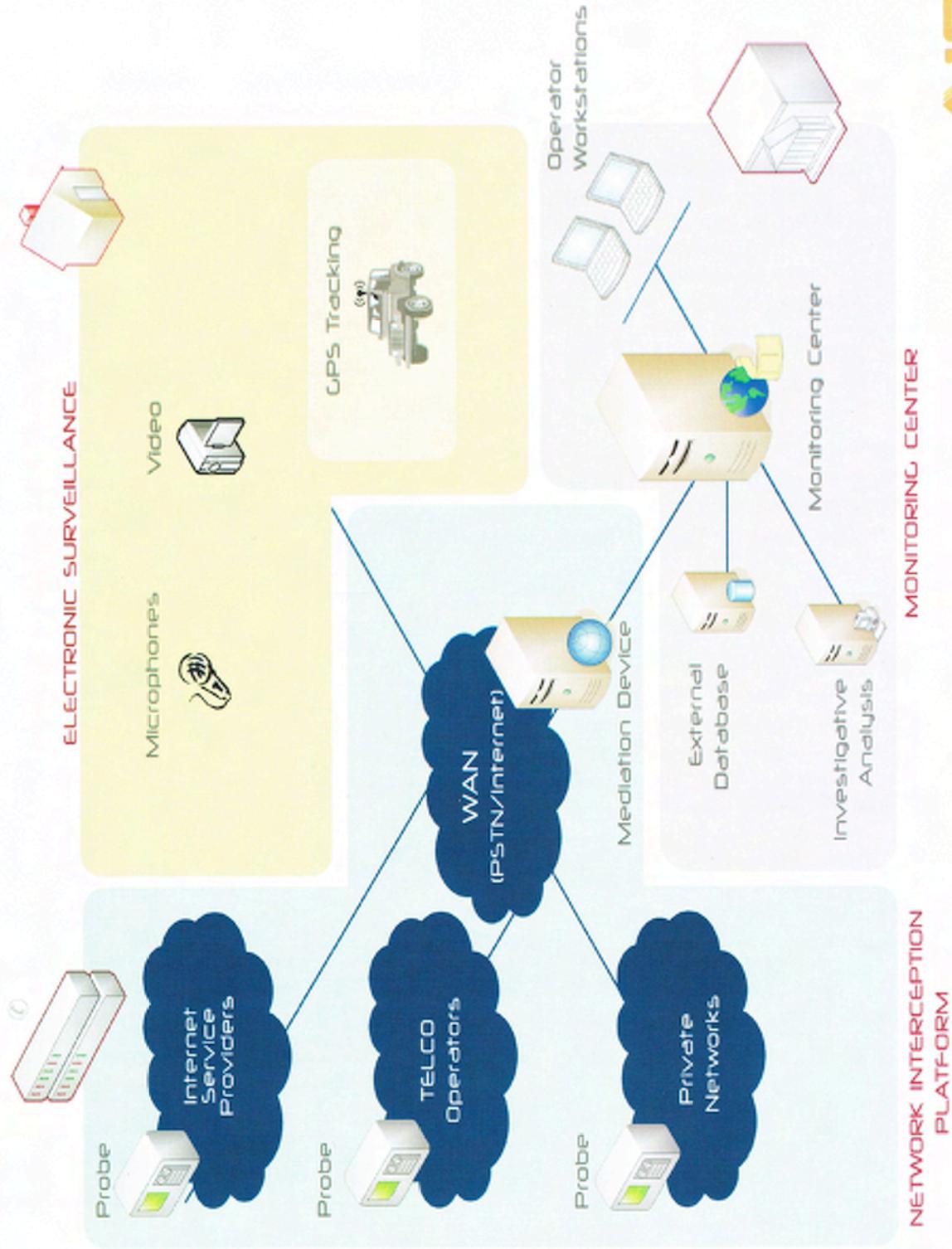
Video Monitoring

GENESITM Monitoring Centre supports any kind of microcamera allowing the tuning and moving control through operator workstation.

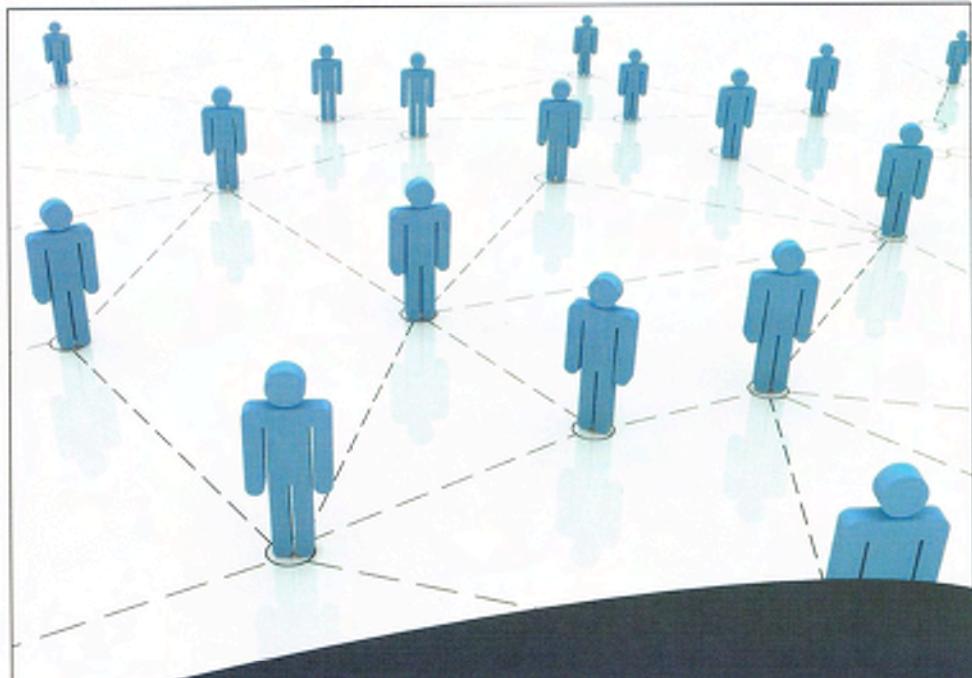
Motion detection features are also included.



GENESI™ Platform



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Facebook Relations Analysis Target Profiling

Genesi™ Platform

Target Profiling

Technology for investigation

Facebook Users		
	Followers	Page Likes
1	10,000,000	10,000,000
2	2,000,000	2,000,000
3	1,000,000	1,000,000
4	500,000	500,000
5	300,000	300,000
6	200,000	200,000
7	100,000	100,000
8	50,000	50,000
9	25,000	25,000
10	10,000	10,000
11	5,000	5,000
12	2,000	2,000
13	1,000	1,000
14	500	500
15	200	200
16	100	100
17	50	50
18	25	25
19	10	10
20	5	5
21	2	2
22	1	1

FEATURES OFFERED

- TARGET PROFILING
 - CONTACT LIST (FRIENDS, SECONDARY CONTACTS...)
 - COUNTS OF THE NUMBER OF MESSAGES EXCHANGED
 - RELATIONSHIPS CHART
 - DATA EXPORT (HTML, XML, TXT...)

User	Count
gatts dorsemont	13
calendar man	1
gatts dorsemont	1
gatts dorsemont	3
dantagran	1
gatts dorsemont	1
gatts dorsemont	1
gatts dorsemont	8
gatts dorsemont	1

Facebook Relations Analysis

One of the most popular social network in the world with 400 million subscribers, with an increasingly positive and unstoppable trend. One of the most widely used communication tools that with features like Chat, Messaging, Events, Groups... makes the interaction between users easy and immediate. This product from one or more telecommunication interceptions made through the Genesi platform, allows you to analyzing communications, tick in detail and make an analysis of relations of the people involved.

USER DATA LIST

The application lists all users who come into contact with the users intercepted highlighting the following features:

- Profile Photo;
 - Name assigned on Facebook;
 - User ID Facebook (remember this is a univocal ID);
 - the number of messages exchanged with other registered users.

RELATIONSHIPS CHART

Selecting one of the filed users, the system make the analysis of the relations and the messages exchange. The result is a "tree" of "communications" occurred, as shown in the figure on the right. In the center there is the Facebook account previously selected and around the people with whom he entertained conversations. In red is highlighted the amount of messages exchanged.

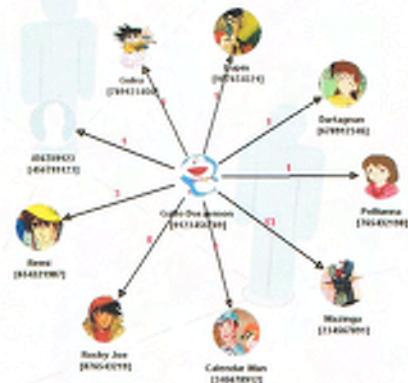
Reports and contents of messages

CHAT MESSAGE

Selecting to the left a line of the chart or an arrow that connects a Facebook user to another, is possible to consult the messages exchange happened during the time. The visualization grate offers the possibility to realize fast filters to be able to reach as soon as possible the necessary information.

SIMPLE AND IMMEDIATE VISUAL IMPACT

The linear and intuitive graph offers the chance to see the friends of a person, his talks and their frequencies...



Name	Facializer	Message Date	Age
John (20101010)	Sasha True version	2010/10/10 11:10:45	14+ Rego
Natali (20101010)	Hammer	2010/10/10 11:10:51	14+ Hammer
Hammer (20101010)	Gems True version	2010/10/10 11:10:55	14+ Hammer
Gems (20101010)	Hammer	2010/10/10 11:10:55	14+ Hammer
Hammer (20101010)	Sasha True version	2010/10/10 11:10:55	14+ Hammer
Gems (20101010)	Hammer	2010/10/10 11:10:56	14+ Hammer
Hammer (20101010)	Sasha True version	2010/10/10 11:10:56	14+ Hammer
Gems (20101010)	Hammer	2010/10/10 11:10:56	14+ Hammer
Hammer (20101010)	Sasha True version	2010/10/10 11:10:56	14+ Hammer
Gems (20101010)	Hammer	2010/10/10 11:10:59	14+ Hammer



PLUGIN GENESI DATI

The software, currently in trial, is provided as a stand-alone Windows® applications and is compatible with the version of the GENESIS-DATI update to the patch 9.0.2.B7.

This trial software is released to run on predefined targets agreed with the customer.



FACEBOOK PORTAL

The software is in constant evolution as Facebook, that offers every day to his users new functionalities. These functionalities will be constantly monitored and new information could be extrapolated to memorize her in the system with the purpose to make the tool the state-of-the-art in the Social Profiling and Data Analysis.



POSSIBLE OPTIONS

- > Personalized developments are possible tied up to particular investigative necessities
 - > Mail Services Management
 - > Published messages Management
 - > Information about the user profile.

- NETWORK INDEPENDENT
- CENTRALISED MANAGEMENT
- DYNAMIC ADDRESS SUPPORT
- CONTENT FILTERING
- TEMPORARY BUFFERING and STORING
- SCALABLE, FLEXIBLE

GENESITM Network Interception Platform is a system with real-time monitoring and intercepting capabilities for the traffic being generated by IP network users.

This product is intended for Service Providers to monitor and intercept Internet traffic data.

It is able to operate in real time as well as to store the traffic for future analysis or filing purposes.

The system, part of **GENESITM** platform, the environment for monitoring IP and CS networks designed by **IPS**, is highly flexible, scalable and easy to maintain, as well as capable of meeting current data network configurations including second and third generation telephony scenarios (GPRS-UMTS). Its hardware/software components allows real-time interception of different types of Internet Content and Services (i.e. e-mail messages, Web accesses, Chat sessions, etc.).

A set of probes are installed up without making any changes to the existing network infrastructure, non-intrusively on lines to be monitored.

The system is easy to use and include centralized remote Configuration & Alerting System (**CAS**) and Provisioning & Administrative Centre (**PAC**).

Probes

They are network elements with detecting capabilities of specific users traffic.

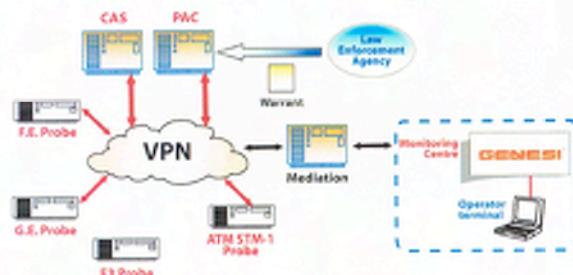
These probes are connected non-intrusively on the line to be monitored through dedicated built-in network interface cards.

The main functions carried out by each probe include:

- tracing the traffic to be intercepted and providing the *Interception Related Information (IRI)*, such as receiver and caller IP's, session duration, protocols used, etc;
- making the *IRI and Call Content (CC)* for the traffic Intercepted available in real time.

Main line interfaces available:

- 10/100 Mbps;
- 1 Gbps;
- 10 Gbps;
- 40 Gbps (in roadmap);
- T1/E1;
- ATM/OC3 and higher.



Different interception criteria can be used at the same time to answer to the Authority's requests:

- **Radius:** Intercepting a user identified by a user name;
- **MAC:** Intercepting a user identified by a MAC address;
- **IP:** Intercepting a user identified by his static IP Address or by an address range;
- **Content Filtering:** This particular policy allows for "parameter based interceptions"; when identifying the Internet traffic containing specific text strings within the protocol header (i.e. URL, e-mail account etc.) or the application content (i.e. keywords inside e-mail messages or Web pages, etc.).

The different criteria can be combined to create interception rules able to meet specific needs.

Mediation Device

In turn the probes are connected via LAN/WAN to one or more mediation devices in charge of forwarding CCs and IRI to one or more Monitoring Centre.

PAC

It is the management system in charge for the provisioning and administrative activities and is made up of a Web server application for collecting the interception criteria and forwarding them to the probes.



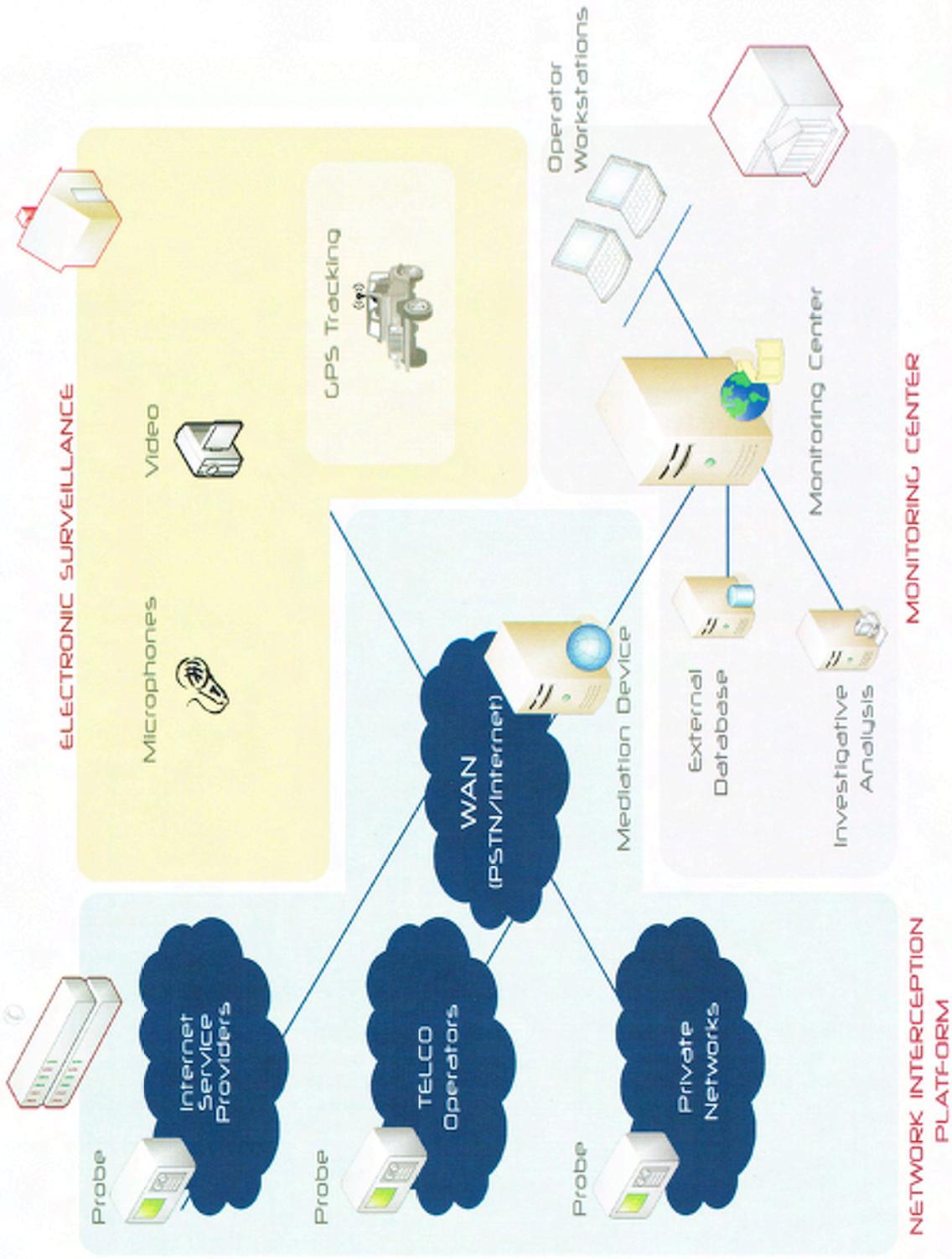
CAS

The Configuration and Alerting System is made up of a Web server application hosting the management and supervision features for probes, mediation devices and PAC.

It allows to display the **Network Interception Platform** devices and their status.

Networked devices, in fact, generate alarms if the internal control procedures detect malfunctions.

GENESI™ Platform



iPS
INTEGRATED SURVEILLANCE

- AUDIO, VIDEO AND DATA CONFERENCES
- HIGH SCALABILITY
- ISDN, GSM, GPRS, UMTS and VoIP
- CRYPTO OPTIONS
- USERS GROUPS
- USERS ID AND ACCESS CONTROL
- RECORDING FUNCTIONS
- LOCAL AND REMOTE MANAGEMENT

MCG™ is a product developed by **IPS** for managing conference groups of fixed and mobile users.

It is based on a modular and scalable hardware architecture, adaptable to the effective operative requirements. **MCG™** enables the complete management of audio, video and data conferences.

MCG™ is available with different types of physical interfaces: ISDN, SIM-Array GSM/GPRS/UMTS and VoIP based conferences.

MCG™ adaptability to the different network interfaces – ISDN, mobile telephony, IP – it's capability of configuring an unlimited number of groups, each one consisting of an unlimited number of users, also of different type – both fixed and mobile users – and its capability of managing the voice, video and data conferences, make it a unique tool.

The **MCG™ Server** is characterized by a high reliability hardware, redundant in its critical components (power supplier, CPU, hard-disk), scalable, with a client-server graphical interface for all the functions of administration and diagnostics (**MCG™ Console**).

You can also dynamically re-allocate a user from a group to another one, without killing the communication.

Private numbers

You can configure particular users to which associate private numbers of the **MCG™ Server**, defining the actions related to the call of such users; for example you can forward a call to another user, or activate the Voice Messaging function.

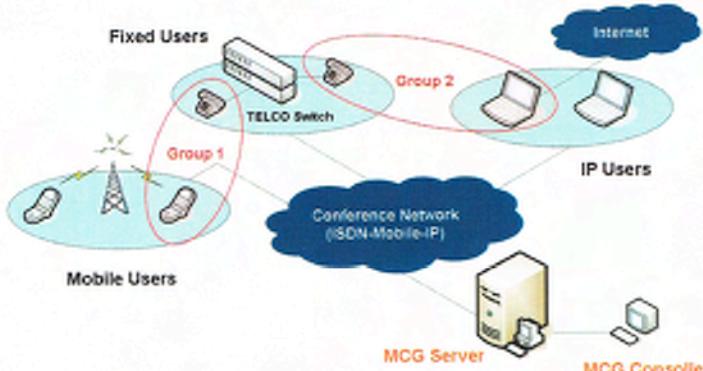
Voice messaging

The Voice messaging function, enables a user to leave a vocal message. The system may also be configured in order to allow the sender leave a message without knowing the telephone number or Identity of the receiver.

You can also configure the system in order to send the receiver a notification of received messages via e-mail or SMS.

Users and groups

Through the graphical interface you can create, edit and delete users and groups. For each type of user, you can enter personal information (name, telephone number, IP address, etc), you can



In distributed architecture, with systems installed on different sites, you can also set up a network of **MCG™** Servers managed by one central workstation, capable of creating distributed groups.

System supervision

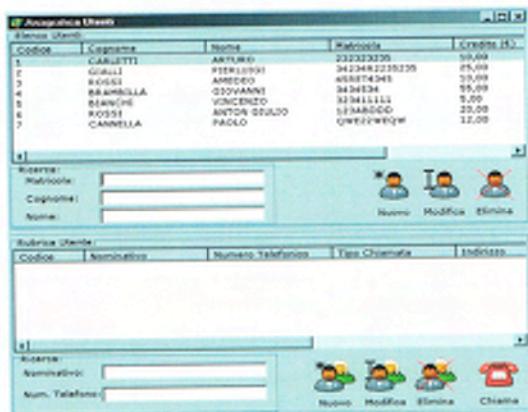
You can check the general status of the system, the status of the groups and of the single lines within each group through the available graphical interface of the **MCG™ Console**.

specify the type of user (fixed, mobile, VoIP) and the alias you want to associate to him.

For each group the system defines: the users that belongs to such group, an univocal number for its identification (Group Id), an alias (group A, group B, etc), and the possible types of conferences – voice, video, data.

Access control

In order to enable the access of the users to the conference, the system manages different types of control: through telephone number identification, through the request of a PIN Code associated to the user, and through the number associated to the group the user belongs to.

**Users functions**

Each user who takes part to a conference, has several functions available, which can be selected through the keyboard. They include the microphone switching off, the video-camera switching off, leaving the conference group, the function of calling all the users not yet on-line.

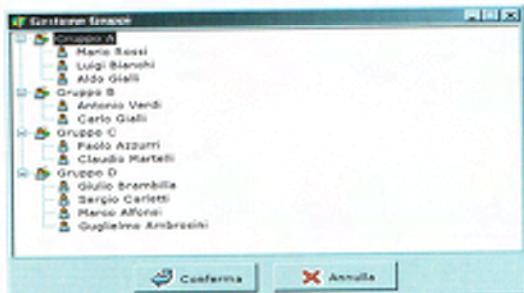
Conferences recording

The content of each conference, can be stored into the MCG™ Server, and can be played-back in every moment after the end of the conference itself.

Every conference content is stored through an univocal number and through the timestamps of the beginning and the end of conference.

The typical functions of play-back are available (Play, Stop, Pause), you can set some markers within the conference itself, in order to be able to go back straight to a certain point, with no need of reproducing the entire conference, you can write some points, regulate the volume, apply audio filters and equalizations, etc.

Through an internal software of the MCG™ Console, you can also burn the content of the conference on a CD/DVD for a further play-back on another system.

**Logging**

For each call received or made, the MCG™ Server records the operation on a log file, which is available to the system administrator through the MCG™ Console.

The format of the log may be configured, both as file and as content, concealing in this way, some private fields.

