Welcome to **Netin**

- **Netin**
  - OT and IIoT monitoring.

- **NetinDS**
  - Monitoring and diagnosis system for OT infrastructures.

- **NetinHUB**
  - OT and IIoT systems integration.

- **Network Intelligence**
  - Services focused on our clients.

- **Roadmap**
  - What we are working on.
What is Netin?
OT and IIoT Monitoring

"Netin is an ensemble of solutions oriented to the monitoring and diagnosis of OT infrastructures and modern systems of industrial automation."

Network Intelligence Systems, better known as Netin, is a set of tools and systems to monitor and diagnose big OT infrastructures and modern systems of industrial automation.

Its integration with IIoT platforms, on the way to global digitalization, is one of its main foundations.

Netin is the perfect tool for the professionals of the area which makes easier the daily maintenance and operation tasks, detecting in advance potential risky situations to solve them in a more efficient way.

Its integration with IoT platforms and TI systems set up the appropriate ecosystem to have the necessary information in the right place and time.
Network Intelligence
NetinDS
Monitoring and diagnosis
**Netin Diagnostic System** is a monitoring and diagnosis system for industrial facilities and OT infrastructures, which main goal is to provide, to the professionals of the area, the best tools to get a quick and easy diagnostic of their systems.

Designed and developed specially for the industry, Netin DS is based on the main supervision protocols of the IT field, as much as on the most well-known and extended OT standards.

With a complete pack of agents, NetinDS reach and integrate all your systems in the easiest way under an only tool to better improve the comprehension of your facilities’ state.

The NetinDS interface let you access, right there where you need it, to all the monitoring information of your facilities, systems and devices.

“NetinDS is a distributed system, by the use of agents, that allows you to monitor big OT infrastructures and modern systems of industrial automation.”
Components

What is NetinDS made of?

**NetinDS WebUI**
Web responsive interface, based on HTML5 and CSS3, from which it is possible to get to all the system resources and configuration options.

- Microsoft Edge
- Google Chrome
- Mozilla Firefox

**NetinDS Agent**
With hardware and software versions, it captures and manages the information from the systems and devices.

- Linux & Windows x32/x64
- Local WebUI

**NetinDS Server**
It is the core of NetinDS system, it develops all the tasks concerning agents’ coordination, information storage, configuration management...

Server configuration for 200 Agents

- 32GB Memory RAM
- 240GB SSD + 1TB HDD
- 4-6 Cores CPU
- RHEL7.x
Get the most of your investments by making and checking automatically the stock of your whole industrial hardware package.

**Features**

**How is NetinDS?**

**Monitoring**
Monitoring and diagnosis in real time of the whole of the devices and systems that form your industrial facilities and OT infrastructures.

**Auditing**
Set up your own standard and check its achievement constantly with the auditing tools and the possibility to create user templates fully personalised.

**Integration**
Integrate all your industrial systems and devices under an only monitoring and diagnosis tool thanks to the application of industrial standards and the ones specially develop on our own.

**Forensic analysis**
Trace, analyse and find out the reasons of the problems in your industrial facilities in order to solve the events that caused them in the first place in a more efficient way.

**Assets management**
Get the most of your investments by making and checking automatically the stock of your whole industrial hardware package.

**Netin Diagnostic System** is always developing and evolving. Adding new and innovative functionalities and interfaces of communication and display. Increasing and improving the system capabilities and its use range. Being based on industrial and information technologies standards we take advantage of the Industrial Internet of Things power in an easy and intuitive way.
**Introduction**

*Watching through the industrial systems*

“The key factor to solve a problem is to have the right diagnosis. If the problem is identified precisely, its solution is, by far, more feasible.”

**Netin Diagnostic Sytmen** join under an only tool the monitoring tasks of all the elements that form your OT infrastructure, your automation facilities, your machines, your plant...

This way it allows an easy access to the most important information of your systems, and at the same time, it simplify their diagnosis by, at a glance, checking the state of the different elements that form them.

The monitoring of your industrial network electronics, controllers, peripheric stations, industrial computers, robots... is organise in a way that improves the maintenance efficiency and reduces the downtimes when a problem occurs.

**NetinDS** is highly customizable by creating alarm events for any monitored variable and adding new ones by using different standards.
Fieldbuses are essential elements in the automation of complex industrial systems where it is usually necessary a distributed control system and a controller hierarchy.

One of the main goals of Netin Diagnostic System is to monitor the fieldbuses (standardised on IEC 61158 and IEC 61784) and their integrated elements.

PROFINET, PROFIBUS, Modbus TCP/IP are some of the fieldbuses that can be monitored by NetinDS.

Knowing the fieldbuses’ state and efficiency of an industrial systems is a key factor to detect potential incidents and quickly solve them, and so it is also a key factor for companies.
Digitalization involves an increase in the number of devices connected to industrial networks, raising even more their importance in the productive processes of the industrial facilities and OT infrastructures.

**Netin Diagnostic System** watch with the better-known supervision protocols, in real time and in a cross way, your industrial networks by looking after the connected nodes and the network electronics.

This real-time supervision of the industrial facilities allows knowing, at all times, the state, efficiency and availability of your systems.

Some **NetinDS** functionalities are: bandwidth measuring, ports with errors and wrong networks configurations.
NetinDS is a monitoring system highly customizable and configurable according to the specific needs of each facility or OT infrastructure. These features are especially important when coming to integrate, under an only monitoring and diagnosis system, structures so diverse as the ones we meet in industrial fields where is common to find different technologies from different manufactures join together to reach the highest efficiency and longest life cycle.

The NetinDS agents pack and its configuration possibilities, by devices profiles, allows it to adapt to the reality of new or old facilities, from different manufactures or even in different and faraway localizations. Each device can be configured with different profiles for the same equipment, use only one or several NetinDS standard protocols, or include, if necessary, custom-made protocols thanks to the integration tools as Dzakar.

**Datapoints**
NetinDS can monitor a huge number of different variables for each device. Every variable has a specific configuration which include from its logical address to the way its values are read. The ensemble of a variable and its configuration is known as “datapoint” in the Netin system.

**System logs**
Syslog diagnostic buffer and PROFINET Logbook are some examples of the system logs that NetinDS collect and assimilate together with key information to make forensic analysis or solve incidents.

**User alarms**
It is possible to configure a user alarm for each value read by NetinDS. Using logical expressions, that even allows the combination of several datapoints, user alarms can be triggered with different critique levels, performance modes and texts.

**System alarms**
They are the alarms that come straight from the system or the technology monitored (such as PROFINET). Each state, alarm or diagnosis is read and translated according to the standard.
Monitoring PROFINET I/O devices monitoring

### Monitoring

**Monitoring**

**PROFINET I/O devices monitoring**

#### Advanced diagnosis

NetinDS supervise all the PROFINET information about a device, analysing it according to its GDML file and independently from its controller.

#### Modules diagnosis

Any alarm or diagnosis, as much from the header as from its modules, is detected automatically and reported, allowing a fast diagnosis of the equipment.

#### Configurations validation

Devices configuration failures (expected vs. real) or parameters configuration failures, as much from the modules as from the header, are diagnosed.

#### PROFINET interface monitoring

It’s monitored: the state of the PROFINET interfaces, including the communication with the Controller, the topology configuration, MRP redundancy state, etc.
Monitoring SIMATIC CPU monitoring

CPU efficiency
Cycle time, memory activity level, number and type of connections used... by these parameters NetinDS helps you to monitor your CPUs efficiency.

Diagnostic Buffer
NetinDS accesses and record the diagnostic buffer events from the SIMATIC CPUs. This information will become very important logs when coming to make the forensic analysis of the incidents.

Communications state
NetinDS identifies automatically all the systems that access the SIMATIC CPUs, SCADA systems, HMI devices, OPC servers... allowing to know the communication load of each one.
Monitoring

Industrial network electronics monitoring

Advanced industrial diagnosis

NetinDS combines the use of standard supervision protocols (SNMP) with the use of industrial protocols (PROFINET) to get all the information necessary from the industrial network electronics.

Failures and bandwidth supervision

Thanks to its configurable alarms system, NetinDS can notify you of any incident in the network, caused by a bandwidth excessive use or by discarded packets or error packets.

Adaptable profiles

Specific profiles can be created through the MIBs of each model, and complex user alarms relating several equipment variables, for example, optic fibre and link distance.

Adaptable panels

The monitoring panels of each profile can be configured in a customized way, making easier to adapt different equipment models with different attributes.
Monitoring
Topology network monitoring

- **Devices automatic detection**
  NetinDS uses industrial and standard protocols to detect and identify automatically all the devices that form the network and its topology.

- **Devices grouping**
  NetinDS allows grouping together different equipment according to the attributes chosen by the user: communications or control cabinets, hierarchy in the control structure... This way, the visualization in facilities with a large number of nodes is simplified.

- **Advanced network topology**
  The topology view allows knowing, at a glance and in a graphic way, the network state. Besides, it's possible to upload a real image of the facilities to merge it into the topology and locate each equipment more easily and graphically.

- **Contextual facilities view**
  Every topology node and link show the state of the devices and connections according to industrial standards, so it's possible to detect configuration failures in the topology for systems as PROFINET.
Monitoring

Network traffic monitoring

NetinDS allows, by the packets’ analysis, inspecting the network traffic in-depth and continuously. It improves the knowledge of the network and the detection of faults by using a TAP or pointing to the detection of non-wanted multicasts.

Network in-depth analysis

NetinDS allows, by the packets’ analysis, inspecting the network traffic in-depth and continuously. It improves the knowledge of the network and the detection of faults by using a TAP or pointing to the detection of non-wanted multicasts.

Traffic statistics

Some examples of the possible statistics are: total traffic, traffic typology by protocol, redundancy protocols detection and BPDUs topologies changes, TCP traffic or UDP to a specific host or from specific sources.

Alarms by traffic type and pcap file

It is possible to configure user alarms when any pattern defined is detected and to make sequential traffic recordings to improve the information sources for failures.

Configurable filters

The system to register and analyse the traffic allows applying filters to perfectly adjust the aim of the captures, so that it becomes a highly helpful tool to solve incidents.
It is possible, thanks to the information got by the NetinDS agents, to make automatic the process to audit the hardware configuration of the equipment and systems that form your facilities and OT infrastructures.

Firmware and hardware versions, specific devices references, configuration modes of interfaces and modules...

Applying your own validation standards, you will be able to check their compliance level, overtaking any incident and controlling your installed hardware depot efficiently.

Different validation profiles can be created for the same equipment type, so it will be possible to apply different rules in each facility easily.
Auditing

Apply your standard, **create your profiles**

**Netin Diagnostic System** allows adding new devices profiles created by the user based on the existing ones or making them from zero.

Each variable (datapoint) declared in a profile can include a validation rule to check that the datapoint value is in our standard. NetinDS allows creating rules by applying RegEx (Regular Expressions) to, for example:

- Check that the equipment reference is in the released equipment list:
  ```
  /\b6GK5201-3BH00-2BA3|\b6GK5202-2BH00-2BA3|\b6GK5204-0BA00-2BA3/g
  ```

- Check that a firmware version is in between the released versions for that product:
  ```
  /\b5.4.*|\b5.5.*|\b5.6.*/g
  ```
With the NetinDS user alarms system you can create more complex rules to audit your systems and devices in real time. Any failure or incident in the application of your policies will be notified at the very moment. For example:

- Checking the plastic fibre power (POF) according to the cable length:

```
{
    "expressions": [
        {
            "expression": "device[portInfo.*.powerPOFBudget].rawValue < 2.5",
            "symbol": "pwBud"
        },
        {
            "expression": "device[portInfo.*.cableLength].rawValue > 40",
            "symbol": "cblLength"
        }
    ],
    "logic": "pwBud && cblLength"
}
```

The critique level can be configured to trigger a high priority alarm just in case the rule breaking can cause serious problems.

Auditing

Keep your auditing process **always active**
Auditing
Create your own knowledge database

With NetinDS it is possible to create your own knowledge database by integrating a customized Wiki. This feature improves users’ comprehension of the events and alarms detected, influencing directly in the incidents resolution time.

The Wiki entries, written in Markdown standard, can attach tags and equipment types in order to the NetinDS WebUI interface allows the user to analyse the articles associated to the events or alarms occurred.

You can create your own standard applying specific rules in your templates and document it in the NetinDS Wiki, that way you will achieve a fast application of the standard by joining, in the same tool, the auditing process and solving actions.
Netin DS
Integration
Netin Diagnostic System collects the information and diagnoses the devices and systems that form the industrial facilities using drivers for the different protocols and standards. SNMP, S7 Protocol, OPC UA Client, PROFINET Supervisor, Modbus TCP… are some of the protocols supported by the NetinDS agents.

Network Intelligence constantly works to incorporate new interfaces by getting agreements with the main trademarks in the sector, to improve the NetinDS diagnosis ability.

At the same time, it is possible to integrate user drivers or custom-made drivers thanks to Dzakar, the NetinDS drivers’ development API.
Industrial systems are very diverse systems where different technologies from different manufacturers can be mixed to get the highest efficiency in the production process.

This feature, although there are already standards, makes sometimes necessary to develop a custom-made driver which allows integrating the whole bunch of the facility characteristics.

To get this goal, NetinDS has a development API to integrate the custom drivers, known as Dzakar.

Dzakar allows creating complete drivers with the same functionalities as the native NetinDS drivers:

- Integrated and personalised configuration for the NetinDS templates system.
- Integration of Datapoints, Alarms & Events, Historical Datapoints...
- Automatic integration in agents and centralized checking of versions.
Integration
Connect your devices

**OPC UA Client**
- Certified OPC UA v1.02 compliant.
- Data Access client subscription.
- Event client subscription.
- Method client subscription.
- Certified security support.

**OPC UA Client to connect your SCADA and control systems.**

**PROFINET Supervisor**
- Autodetection of equipment by DCP.
- Access to information devices.
- Access to configuration data.
- Access to the diagnosis buffer (logbook).
- GSDML import.

**Complete access to all the information of one of the most extended fieldbuses.**

**PROFIBUS**
- Access to devices states.
- Bus data.
- Bus statistics.
- Access to tension levels.
- Oscilloscope function.

**Quality monitoring of all your PROFIBUS networks from NetinDS.**
Integration
Connect your devices

SNMP

- V1, V2C, V3.
- Traps support.
- MIB import.
- MIB compilation.
- PING basic test.

Diagnose your network electronics with the SNMP standard.

SIMATIC S7

- Access to diagnostic buffer.
- Access to reading memory (DB, M, Z...).
- Blocks details (FB, FC, DB...).
- Access to CPU state.
- Access to CPU identifying data.

Integrate your SIMATIC controllers’ diagnosis to get a full view.

Modbus

- TCP/IP and UDP networks use.
- Standard function codes.
- Access to files and diagnosis.
- Big data types, bits and strings.
- Application protocol specification.

Integrate your MODBUS devices in the monitoring and diagnosis system.
NetinDS
Forensic analysis
The forensic analysis of incidents is one of the most powerful tools to get the highest efficiency in industrial facilities, as it allows identifying and solving the problems underlying reasons.

Some of the events resources that **NetinDS** can register are: controllers events logs (Diagnostic Buffer), SNMP Traps, Syslogs, user alarms...

**NetinDS** allows you to connect records and alarms from different devices, ordering them by time and setting up hierarchy links according to topologies or master-slave relations.

It’s possible to add new records with the integration tools and APIs, and new resources to make easier the **problems solving**.
NetinDS has a powerful search engine that allows you to look into all the occurred events in your facilities: user’s alarms, system alarms, logs... to find an incident’s cause.

The historical events forensic analysis by logs auditing is one of the most efficiency practices. If your OT system or industrial facility has any problem, NetinDS will tell you the cause, but even more important is to know what exactly happened.

You can make searches based on an IP, an equipment, an event... NetinDS correlates the information so it isn’t necessary to make complex searches, but anyway you can make custom ones to find the information you need.
The efficient management of the hardware that forms the industrial facilities and OT infrastructures is a key factor to guarantee their efficiency and maintenance.

**Netin Diagnostic System** helps you to have a clear and full view of all your hardware assets of your OT infrastructure, so that you can get the highest profit of your investment.

**NetinDS** allows you to automatically detect and order the assets of your facilities according to your organizational structure.

You will know references, serial numbers and identifying data of all the elements that form your facilities, even of the modules, to get the highest granularity.

It is also possible a unified and automated management of your facilities IP addressing with the **NetinDS IPAM module**.
Assets management

IP addressing

**Devices profiles**
Automatically identify the equipment that form your industrial systems by creating configurable profiles.

**Versions management**
Firmware and hardware versions, serial numbers, references... efficiently manage your devices stock.

**Modular equipment management**
NetinDS allows you to identify the modules that form your devices. For example, peripheral equipment I/O modules.

<table>
<thead>
<tr>
<th>Devices profiles</th>
<th>Versions management</th>
<th>Modular equipment management</th>
</tr>
</thead>
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</tr>
</tbody>
</table>
Automated searches
Subnetworks and IP addresses can be detected with the NetinDS agents active scanning to always know how they are being used.

Conflict detection
Detect conflicts in the addressing and configure the ranges repetition in different locations (OEM).

Addressing reports
Make, in a quick and easy way, reports about the IP addressing state of your facilities.

### Dispositivos
<table>
<thead>
<tr>
<th>Estado</th>
<th>Nombre</th>
<th>Dirección IP</th>
<th>Dirección Mac</th>
<th>Interfaz de red</th>
<th>VLAN / IDVLAN Nombre</th>
<th>Ultima respuesta</th>
<th>Tipo</th>
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<td>eth1</td>
<td>Maintenance</td>
<td>10/2/2017 10:06:21</td>
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<td>Maintenance</td>
<td>01/3/2018 09:30:15</td>
<td>Manual</td>
</tr>
</tbody>
</table>
Netin DS
Web UI
Netin Diagnostic System has a responsive web interface, based on HTML5 and CSS3, from which it is possible to access all the system resources and configuration options.

NetinDS structures the navigation in a hierarchy of localizations configure by the user. Each localization match with a facility, a production unit, an area... adapting the navigation to the structure.

These localizations allow including metadata, facilities’ additional data (geolocations, tags...) and images, all of them very useful to navigate visually and to search basing on extra information.

The Grid system allows the users to configure the way they want to see each device information and highlight the most important data.

The NetinDS web interface allows the users to configure the display panel for each kind of device, adapting it to their needs easily.
NetinDS is ordered in a localizations hierarchy system to allow the users to manage the monitoring activities in the same way they manage their facilities.

An only NetinDS agent can monitor equipment from different localizations. This flexibility allows organising the monitoring architecture (agents’ position and configuration) independently from the administrative organization.

Every localization in NetinDS can have useful metadata to make searches and organise the information, images to visually navigate through the application, and GPS coordinates used by the NetinHUB apps to navigate to the facilities.
The facilities hierarchy structure allows **NetinDS** to group the information of alarms and states to show the situation of all the facilities, not only the conditions of devices and systems in an isolated way.

This display mode by localization hierarchy, in accordance with the industrial facilities reality, makes easier integrate the use of **NetinDS** as a monitoring tool in your control centre or in your maintenance processes, because it reflects the current state of your productive processes and services.

The hierarchical display has two displays options: informative cards and graphically by uploading navigable images of your facilities.
NetinDS organises alarms and notifications in different levels according to their severity, for example, an alarm triggered because of a failure in the observance of the user’s standard can be categorised as “informative” and an alarm which stops the production can be categorised as “emergency”.

The NetinDS navigation is design to change, in a quick and easy way, from the display of different alarms types by role or process, to manage the solution of a problem or verify the observance of a specific facility.

The alarms system catalogues every event according to its origin (the device that caused it). The different devices are related among them because of the hierarchy inside the fieldbus (Controller/Device – Master/Slave) or the network topology. NetinDS knows these relations and navigates in an intelligent way between partners.
The alarms and devices in **NetinDS** can be catalogued by “facilities”, so it is possible to discern for each localization which alarms belong to the communications infrastructure or to the industrial network.

**NetinDS** has a specific display mode for the industrial network electronics which allows in an easy way:

- Identifying malfunctions or deviations in the network interfaces behaviour: excessive bandwidth, error packets, discarded packets...
- Identifying the main links of the localization to focus on them and their visualization: uplink ports, industrial rings ports...
- Displaying records produce by network equipment, such as Syslog or *traps*.
In industrial sectors every device, system or technology are designed to develop a particular function in a very efficiency and specific way, so its monitoring must be specific, too.

With the customizable NetinDS templates it is possible to integrate in an only display and monitoring tool all the relevant information of an equipment.

This way, for example, for a SIMATIC CPU it is possible to integrate in the same template information from the network interfaces by the SNMP protocol and from the PROFINET driver Supervisor, besides all the state and behaviour information of the CPU from the SIMATIC S7 interface.
All this information from an only equipment is visualised in the “device panel”.

The device panel is design to be configurable by using customizable widgets to represent the information as you wish.

It is possible to create several devices panels for an equipment, so all the information is accessible and can be organise in the way more convenient for you, by roles or information types.

All the widgets are responsive designed for a right visualization in different sizes devices.
Netin HUB
OT and IIoT integration
Introduction
Integrate NetinDS with your **OT and IoT systems**

NetinHUB allows you to integrate its OT diagnosis platform in your ecosystem, making easy and richer the access to its functionalities.

NetinHUB is the addon that allows you to integrate and connect NetinDS with the world, making easier the information exchange and adding new functionalities to your monitoring and diagnosis system.

The **NetinHUB integration features** include: integration with document management systems, wearable devices, IoT platforms...

One of its main advantages is the **integration with SCADA system** by market standards, so it is possible to match SCADA alarms and events with the technical incidents detected by NetinDS.

With NetinHUB is also possible to **add events and information resources** to improve incident solving by making easier the documentation access or notifying more quickly to the qualified staff.
NetinHUB connects NetinDS with all your systems, allowing the information flow and its crossed use. Take advantage of all the possibilities of your information by sending it right there where, when and how you need it thanks to an open system which is compatible with the main market standards.
IoT Button

With the integration of AWS IoT Button devices in the NetinHUB system, it is possible for the user to report events in an easy way with a simple button tap.

Wearables

With the NetinHUB apps for wearable devices, it is possible to receive the information right there where the users need it. Wear on your wrist all the information of your facilities.

SIGFOX

Integration of one of the most important IoT platforms of the industrial scene, with the possibility of adding events or alarms detected by equipment with SIGFOX standard.

Smartphone

NetinHUB allows you, from your smartphone device, to access and interact with the most relevant information about the state of your industrial facilities, OT systems and field devices.
One of the most important functionalities of NetinHUB is the possibility of integration with SCADA systems. The SCADA systems monitor the state of operations and systems from a production perspective. When a failure occurs its consequences are shown, i.e., how the productive capacities of the monitored facility are affected. This information, although very important, is not always enough to know the cause.
The information about the state of the automation and operation systems that NetinDS supplies, allows knowing the origin of the problems quickly. The industrial facilities integrate day by day a higher number of intelligent devices in order to improve their processes. An efficient diagnostic is more and more important.
NetinHUB allows merging and automating, in an only common point, all the different information sources that are operating in the industrial facilities. In this way, it is possible to link the process events present in the SCADA systems with the advanced diagnosis information that NetinDS supplies.
Integration

Connect NetinDS thanks to its RESTful API interface

NetinHUB has a complete application programming interface (API) defined on a RESTful architecture that allows the access to all the NetinDS resources in an easy and standardised way.

Through this interface, it is possible to integrate third party tools so much to consume information from NetinDS, as to add new alarms sources.

With this interface you can access to:

• Devices data in an organized way (localizations).
• Alarms and events.
• Historical data.
• States of services, agents and artefacts.
• States of devices connected by NetinHUB.
• Interface to create events and customizable alarms.
With the **NetinHUB Smartwatch** applications, it is possible to connect smartwatches to your monitoring systems without an associated mobile terminal. This way, it makes easier to send the information quickly to whom really needs it.

The **NetinHUB** system divides all the information in different “channels” (localizations) that are assigned to the smartwatches, so each watch will only receive the information that concern it.

At the same time, **NetinHUB** system can filter the alarms marking which ones should be forward to the smartwatches.

It is possible to create alarms straight from the smartwatches using the voice recognition functionality, so each user can decide the alarm description text that will appear in the system when creating it.

**NetinHUB Smartwatch** also has a system to escalate alarms that allows assigning different roles to the different application users.
Netin
Network Intelligence
Introduction
Added value for our clients

“Network Intelligence walks along with you in your projects offering specialised services and support to both clients and partners.”

In order to guarantee the success, **Network Intelligence** offers specialised services and walks along with their clients while developing their integration projects and implementing their **NetinDS** and **NetinHUB** systems.

**Training** for partners and clients to become experts in the implementation and use of **NetinDS** and **NetinHUB** systems.

**Specialised consulting** in the diagnosis and monitoring of industrial and OT infrastructures, and in the processes for implementing a monitoring system, always with the best specialised partners.

**Experienced support** that allows you to solve any incident quickly, facilitates the integration of new systems, and helps you to get all the possibilities of **NetinDS** and **NetinHUB**.
Network Intelligence offers services of advanced consulting for your integration projects of the Netin systems in your industrial facilities and OT infrastructures.

We walk along with you through all the stages of your project hand in hand with our partners and with the only goal of guaranteeing your success.

We establish a relationship which allows us to understand all your challenges and all the technical and business problems that you try to solve with the Netin systems, and we work together with our clients to plan and develop recommendations to get their objectives.
Network Intelligence gives training, both classroom-based and online distance learning, that allows you to improve your knowledge of the Netin tools and take advantage of all their possibilities.

These trainings are directed to:

- **NetinDS** and **NetinHUB** users.
- Operating and maintenance staff of **NetinDS** and **NetinHUB** platforms.
- Specialised integrator staff of **NetinDS** and **NetinHUB**.
- Developers who use any **NetinDS** or **NetinHUB** APIs.
You can access to the **Network Intelligent** specialised support with the GOLD and PLATINUM subscriptions, or on the free access forums.

We guide and help you solving your configuration problems, installation, implementation... or with any other incident during the your **NetinDS** and **NetinHUB** systems installation.

Access to a professional and dedicated support to guarantee your investments and to focus on your objectives.

<table>
<thead>
<tr>
<th></th>
<th>GOLD</th>
<th>PLATINUM</th>
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<tbody>
<tr>
<td><strong>Coverage</strong></td>
<td>Working hours</td>
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<tr>
<td><strong>Emergency patches</strong></td>
<td>No</td>
<td>Yes</td>
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</tbody>
</table>
If you are a manufacturer of devices and systems and would like to incorporate them to NetinDS or NetinHUB, please contact us.

Network Intelligence will help you to develop your own communications driver, or to solve your queries about how to create and distribute your equipment profiles and systems by using native drivers. For that, we have the best and most experienced professionals about the NetinDS and NetinHUB tools.
Adding a new kind of data, "curves", that allows registering in a native way sampled values curves.

Increasing the available configuration widgets portfolio to design templates.

Developing of a CPU diagnosis interface for Phoenix Contact trademark.

Curves data support

New Widgets

Integration driver to diagnoses this kind of devices.

SIMATIC RFID (Driver)

Integration driver to diagnose this kind of devices and their efficiency in the reading process.

UR Robotics (Driver)

Integration driver to add the functionality to read databases where logs and states are stored.

SQL (Driver)

Improvement of the S7 driver by adding new CPU models (S7-1200/S7-1500) and new functionalities.

SIMATIC S7 (mejora)

Increasing NetinDS functionality to add MQTT devices in a native way.

MQTT Devices

Developing a visual interface to configure devices templates.

Template Config Tool

Integration driver to add the functionality to read databases where logs and states are stored.

NetinDS developments

Current and future
Roadmap
Current and future NetinHUB developments

iOS Smartwach
- Developing a new app for Apple smartwatch devices.

Legato Sapiens
- Developing of an integration interface for the Gefasoft MES Legato Sapiens system.

Mindsphere
- Integration of NetinHUB and NetinDS with the Siemens Mindsphere system.

Kibana ML
- Integration of the Kibana deviations detection events in NetinHUB.

Email and SMS
- Integration of NetinHUB with an email and SMS notification system.

External Queries
- Integration of database displays and external systems by building external queries.

Cloud services
- Adapting NetinHUB and NetinDS to run as cloud-based services.

Apps configuration
- Improving the configuration options of the wearable devices apps.

Slack and Teams
- Integration with the chat and working systems Slack and Microsoft Teams.