

# SIMPLE INTEGRATIONS OF THIRD-PARTY APPLICATIONS

For three decades the WinGuard platform has been a market leader – but never has its flexibility been more important, says Advancis

As networking and digitisation steadily continues to advance, it is important for control room personnel to work with software platforms that can be operated in an intuitive way and are flexible to extend. A multitude of single systems provides a mass of information which is hard

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to keep track of – whether from security management, building automation, communication technology, IoT and Data Mining.

## Control unification to address excessive data influx

The unification of numerous sensor data is the only logical solution: A PSIM platform consolidates information from all connected systems and prepares it for easy further processing.

Not only the current status of these subsystems, eg. CCTV, access control, fire alarm, HVAC or communication systems, is displayed in a single user interface, but complete subsystem control and central data management is enabled. The use of a PSIM platform reduces training costs as the operator has to

work with only one system and one user interface.

Furthermore, there is less data maintenance effort as changes like modifications of workflows, changes of phone numbers, CAD plans, etc. have to be made in only one system.

The platform provides dynamic workflows (Standard Operating Procedures/SOPs) that in case of an event or emergency, it is easy to manage even for personnel that are less experienced and thus significantly increases security.

## Advancis offers an open architecture and cost-efficient PSIM platform: WinGuard

For almost 30 years WinGuard from Advancis has been one of the market leading PSIM platforms for the

unified visualisation and control of technical sub-systems.

The operator works with an intuitive and adaptable user interface providing them with content such as maps and camera images depending on the particular situation.

Individual dynamic workflows (SOPs) support the control room personnel in event processing, whether in case of an alarm or for daily routine and maintenance tasks.

All actions such as event messages as well as individual user entries and actions are centrally logged. Based on this data, reports and dashboard evaluations of KPIs can be generated, offering a quick overview of relevant key metrics of the connected systems and the

control centre. For external use, this information can be exported into standard formats or provided in real-time.

In addition to the functionalities, there is also a high security requirement for the PSIM platform. WinGuard addresses this requirement with innovations in cyber security such as encryption of network communication and databases using AES.

Furthermore, secured signature storage protects all external files such as CAD floor plans from unauthorised manipulation.

In current times remote access is in high demand to facilitate working from remote operator stations or from home. With the WinGuard App for iOS and Android, mobile access to the platform and all connected

## ADVANCIS OPEN PLATFORM

“WinGuard – initially developed as a solution for specific use cases – has undergone a transformation over the years. A growing number of projects with more and more specific and partly very individual requirements has led to the fact that solutions have been implemented more and more generically”, explains Hartmut Nöll, CTO of Advancis, and adds: “With the Advancis Open Platform, we are now taking this path one step further and enable the user himself to extend the software with his own functionalities, interfaces and UI components, based on the existing concepts. The basis for all of that is a modern API which can be used in principle with any programming language. We are very excited with regard to the solutions of the certainly fast-growing developer community around AOP.”

“AOP is strategically by far the most transformative product development in Advancis’ corporate history. This milestone paves the way for growth and expansion by creating an open platform that offers almost unlimited possibilities”, explains Jan Meiswinkel, CEO of Advancis.

systems is possible at any time – for simple and fast remote control.

For maintenance works, for example, it is very easy to arm or disarm detectors remotely via mobile devices. On the other hand, personnel on site can report critical events to the control centre via their smartphones or tablets, eg. a liquid spill at an industrial site.

WinGuard is used in various verticals – from a small installation with only one workstation up to a cross-linked network solution to monitor numerous international locations – and available in more than 20 languages.

It is scalable and can be extended seamlessly by further interface or function modules on demand. Currently, over 470 interface drivers to different security, building management, communication systems are available and there are also interfaces to related systems such as ticketing, Computer Aided Dispatch systems and IoT technologies.

### Security management centralisation in Retail

With individually adapted modules for the required functions as well as a highly scalable system, the open PSIM platform WinGuard

from Advancis offers the perfect solution for the most diverse project requirements and verticals.

The Auchan Group is internationally present in 13 countries with more than 1,600 super and hypermarkets. In Portugal, Auchan is the owner of the trademarks Jumbo and Pão de Açúcar, extending its activities to gas stations, building and management of shopping centres as well as financial activities.

Auchan Portugal selected WinGuard from Advancis for integrated security, building and communication management. The Security National Center of Auchan Portugal is a control centre for all services and security commands of the company in one place, integrating its various activities: hypermarkets, petrol stations, logistics platforms and production units. Some 23 hypermarkets, 11 supermarkets, 30 small "My Auchan" shops, two logistic platforms and 35 local control centres have to be constantly monitored.

Silvestre Machado, Security Director, said: "WinGuard allowed us to develop a solution leading to cost optimisation and the prevention of hazardous situations. The event detection process and the quality of our security services have been



↑ Jan Meiswinkel, CEO / Co-Founder of Advancis



↑ Hartmut Noll, CTO of Advancis

“FOR ALMOST 30 YEARS, WINGUARD FROM ADVANCIS HAS BEEN ONE OF THE MARKET LEADING PSIM PLATFORMS FOR THE UNIFIED VISUALISATION AND CONTROL OF TECHNICAL SUB-SYSTEMS.”



optimised, focused on innovation, integration and interoperability.”

Auchan has to manage almost 75,000 detectors and sensors of security, building management and communication devices.

It has CCTV systems from Avigilon, Bosch and Tyco, fire detection from Detectomat, GE and NSC, Siemens and Xtralis intrusion detection, a Stentofon intercom system and additional single systems of different manufacturers.

Retail chains with distributed locations such as Auchan require an intelligent and highly flexible security solution. Each chain store can be monitored in parallel, locally and/or by the central control room.

The WinGuard event workflows assist the user in taking the appropriate actions. In addition, WinGuard offers continuous surveillance of building technology systems. All actions are completely logged to provide proof and evaluate workflows. The WinGuard video archive enables a later tracking of relevant video sequences or images.

A central coordination of maintenance dates for building technology devices is easily possible via WinGuard, facilitating daily control centre tasks and resource planning.

Auchan also benefits from the multiple redundancy levels WinGuard offers to always ensure high system availability.

The complete database of the main system is continuously kept on one or more other computers. This means that the system functionality is kept even if a central component fails.

### New version WinGuard X5 will be presented at Security Essen 2022

At Security Essen 2022, Advancis will present its new WinGuard version X5. In addition to simplified datapoint processing as well as new UI elements that support the operator by a direct validation of user entries, the new version is based on the Advancis Open Platform (AOP), offering more

flexibility by an open access for third party developers. What exactly does this mean?

A growing number of PSIM projects with more and more specific and partly very individual requirements has led to the fact that solutions have been more and more implemented based on generic concepts.

Initially purely in data supply, followed by customizing and increasingly variable interface solutions up to the consistently more generic design of the software architecture itself.

With the AOP, Advancis are now taking this a step further and enabling the user to extend the software as desired with functionalities, interfaces and individual UI components based



on the existing generic concepts. There are almost no limits to the use of custom components, so even "applications within the application" can be implemented.

All extensions integrate seamlessly into the existing application and are based on a uniform API which is also used for WinGuard's own interfaces and UI components.

When implementing extensions, a customer does not have to start from scratch. Redundant network structures, distributed data storage, system communication,

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object modelling as well as diverse UI components are available as a framework for different programming languages (C++, C#, JavaScript) and use the corresponding functionalities of the platform.

### AIM and Minder: Two new products

In addition, two completely new products are presented by Advancis at Security Essen: AIM (Advanced Identity Manager) is a platform for consolidating existing access control and IT systems through centralised identity management.

Minder, a software-as-a-service solution, enables companies to minimise their operational risk by protecting people and assets. Visitors can experience live not only the technical innovations, but also the comprehensive operating comfort offered by a perfectly equipped control room.