

Esmi Integration Agent

General

Esmi Integration Agent is a Windows-based service with inputs and outputs at the core of its operational logic. The agent controls events reported by inputs and compares the data to the conditions defined by the rules. When an event meets the conditions defined in the rules, the event triggers a set of operations also defined in the rules. All rules get processed for all events

You can define priorities, i.e. priority settings, for overlapping rules. When an overlap occurs, these priority settings define the operations that follow

The agent requires an Esmi Integration Agent (former Esmi DVR Agent) license from the **Elise license service** for full operation. The configuration, however, can be fully implemented before the license is installed. The license is needed for handling any input events or controlling anything in the connected systems.

Supported Connections

- Esmikko connections
 - Esmikko3
 - Esmikko4
- Video system connections
 - Pelco Digital Sentry
 - Pelco Endura (via PSG)
 - Mirasys VMS
- External systems
 - External system input
 - External system output

Operational data of rules

Operational data defines what happens once a condition assigned to a rule is met, i.e. the operations that consequently follow the rule. You can set several operations involving just a one or several recording devices, Esmikkos and external connections. Once activated, all operations defined for the rule are processed. You can set operational delays (timeouts) that postpone the processing based on your time settings.

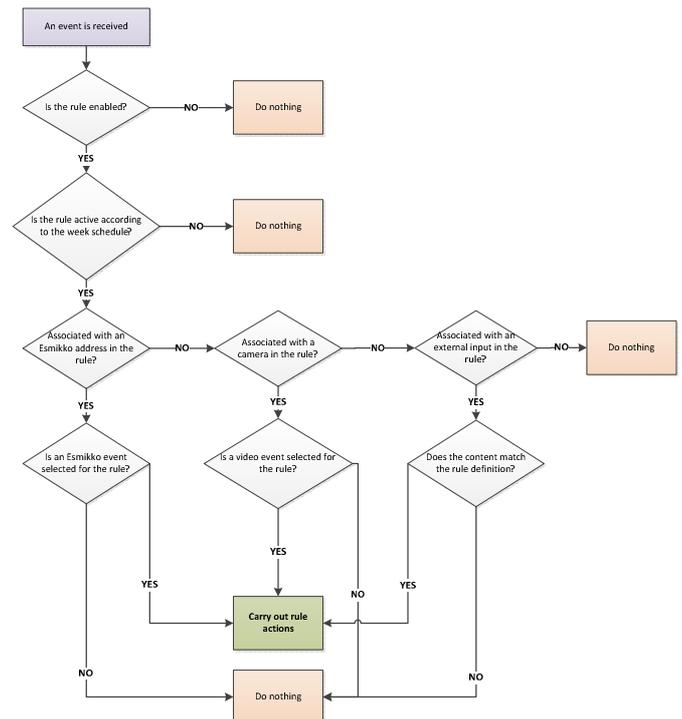
Schedule

You can set rules to follow a week schedule. By default there are no schedule settings, i.e. by default rules are constantly active. You can activate and deactivate rules on the schedule by the hour and by the day of the week.

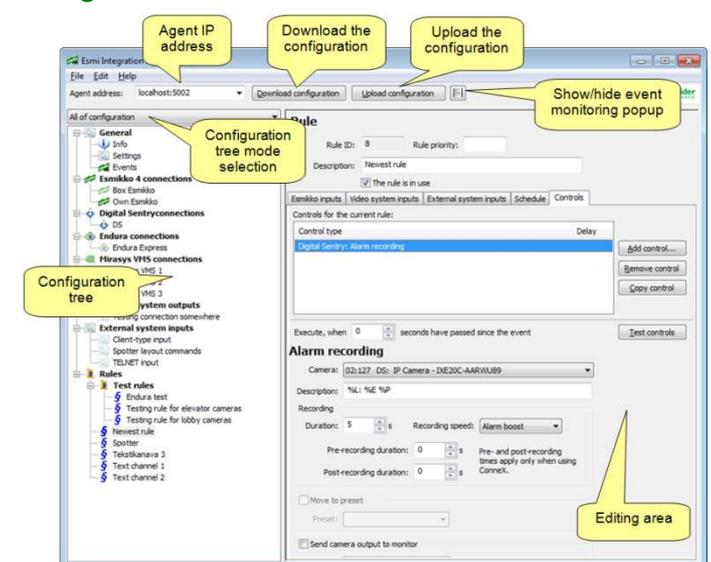
Rule action types

Each rule can have several operational consequences, i.e. a number of actions assigned to it. These actions and operations can follow their triggering event immediately or follow timeout settings.

Operating schematic diagram of rules



Configuration tool user interface



Other action types

The Esmi Integration Agent can run a specified program as a rule action. The program file with its possible utility files is installed on the Agent computer. Possible parameters can be passed to the program from the action definition. The **Run program** action makes possible to execute special functions with the Agent. A utility program can trigger functions in systems with which the Agent cannot communicate directly at all.

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Some Agent use case examples

Show video by an entrance call

“When an entrance call button is pushed at an entrance, can I see live video from that entrance on a preselected monitor in the Endura system in the control room?”
 The entrance phone/camera system is able to send a predefined text string to a TCP/IP address when a call button at the entrance is pushed. The site has an Endura video system.

Functional principle:

“A text string is received from an external system, and the Agent reacts to the message by running a script in the Endura system.”

Show video from a fire alarm

“If a fire alarm event is received from Esmikko 4 from any fire detector in the lobby, can I get a Spotter layout named ‘Lobby view’ to be activated in the control room Spotter application?”
 The site has an integrated fire detection system with Esmikko and a Mirasys VMS video management system with Spotter application.

Functional principle:

“Alarm events are received from the Esmikko server for fire detection system address points and the Agent reacts to them by commanding the Spotter application(Mirasys VMS) to activate a video wall layout.”

Control lighting by intrusion detector state changes

“If a detector status changes in the warehouse, either when armed or not armed, can I get lights to be controlled on for 15 minutes?”
 The lighting system at the site accepts simple text string commands from a TCP/IP connection. Sending text **WAREHOUSE:ON:15** controls the lighting on in the warehouse for 15 minutes. An IX intrusion panel is integrated into Esmikko.

Functional principle:

“Alarm and state change events are received from Esmikko server and the Agent reacts to them by sending a text string command to the lighting system.”

Record video in a 3rd party system from denied door access

“If a person tries to access door AH133 and access is not allowed, can I get some video from that door recorded?”
 The site has Esmikko access control and a video system that the Agent has no direct integration for, but has a command line utility to command it.

Functional principle:

“When ‘access not allowed’ type events are received from the Esmikko server, the Agent reacts to them by running a 3rd party application that controls a video system.”

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