

# STENTOFON SDK

SOFTWARE DEVELOPMENT KIT



when communication is **critical**

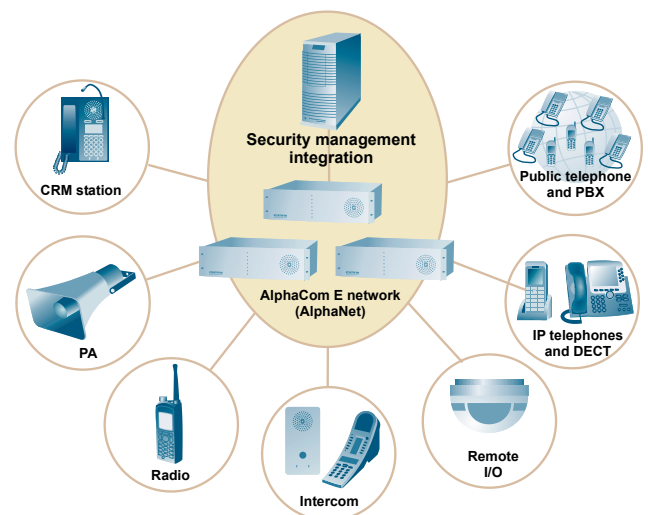
## FEATURES

- Easy integration between AlphaCom E and system management software
- Based on Microsoft .NET
- Microsoft Visual Studio development environment
- Large base of library components
- Reduces implementation time and cost of system integration

## DESCRIPTION

STENTOFON AlphaCom E is a powerful communications exchange with many features directly applicable to the security industry such as direct calling, call requests and call queue handling, call transfers and escalation, PA functionality through All and Group Calls, priority calls and many more.

STENTOFON SDK (Software Development Kit) allows for a very close integration between the AlphaCom E exchange and security management systems. Internal exchange status information is reported by raising events and commands can be sent into the exchange by calling the appropriate method. This gives the management system full access to all features of the exchange.



## SPECIFICATIONS

Usage	Integration with Microsoft .NET applications Integration with Web services
Self configuration	Autodiscovery of complete network configuration Auto generation of AlphaCom E and station state data
Networking	Supports STENTOFON AlphaNet
DLL names and Namespaces	Stentofon.AlphaCom.AlphaNet.dll .Messages .Client .Config Stentofon.AlphaCom.Data.dll .State
Supported Operating Systems	Any Operating System with Microsoft .NET installed
Software dependency	Microsoft .NET 2.0 for Stentofon.AlphaCom.AlphaNet.dll Microsoft .NET 3.5 for Stentofon.AlphaCom.Data.dll
Communication with AlphaCom E	TCP/IP via TCP port 61112 As from AMC-IP software version 10.54 there will also be support for TCP port 61113; this allows the implementation of redundant connections/ interfaces or running 2 different management applications in parallel.
Minimum hardware requirement	Internal memory: 2 GBs Hard disk space: 1 GB, including memory requirement for .NET Framework
Basic I/O integration	I/O and relay in intercom station I/O in exchange modules Separate I/O and relay units

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### Events and Methods

The following is a selection of the available interfacing options, put in the context of actual implementation situations.

#### Call request events

A very powerful feature of the AlphaCom E exchange is the call request. Using this feature, a remote intercom station puts itself into the call queue of one or several guard stations. This happens when the call button on the remote intercom is pressed. The call queue handling is all done by the exchange; for instance if one guard answers, the request is removed from all call queues from other guard stations in which the call was placed. Also in case of call request transfers or escalation, the queue always reflects the correct situation. This means that management system software only needs to monitor the appropriate queue events and use this information to, for instance, flash an assigned icon to the remote intercom station.

#### Call connect command

Often when there is a call request, the guard wants to be able to click on the flashing icon to accept the call. Calling the method to send a connect message with the directory numbers of the guard and the icon associated intercom stations as parameters, will set up the call.

#### Call connected event

When the call is set up, the exchange API will generate the call request removed events (see above) and an event stating that the guard intercom station and the remote intercom are in conversation. These messages can directly be used to change the appearance of the remote intercom icon.

#### Cancel call command

When the guard cancels the call, the software calls a method to cancel the call.

#### Call disconnected event

An event stating that the call between the two intercom stations has been disconnected is raised. The icon can be put in the 'idle' status.

#### Other available events and methods

Some of the most used events and methods are:

- Reporting the status of the intercom stations: connected, disconnected, working OK
- Force a pre-recorded alarm message to an intercom station, group of stations or PA amplifiers
- Force an audio program to an intercom station, group of stations or PA amplifiers
- Make a PA announcement to pre-defined zones
- Open doors or operate other equipment through relays
- Read door open/closed status or other status signals through logical inputs

