

# STRIDE Server

STRIDE Server Software

The STRIDE Server handles all of the STRIDE system integration and data processing. Operating in the background, the STRIDE Server establishes communication between Detection Units and Clients via network connections. The main tasks of the STRIDE Server Software are:

## Interfacing to Detection Units

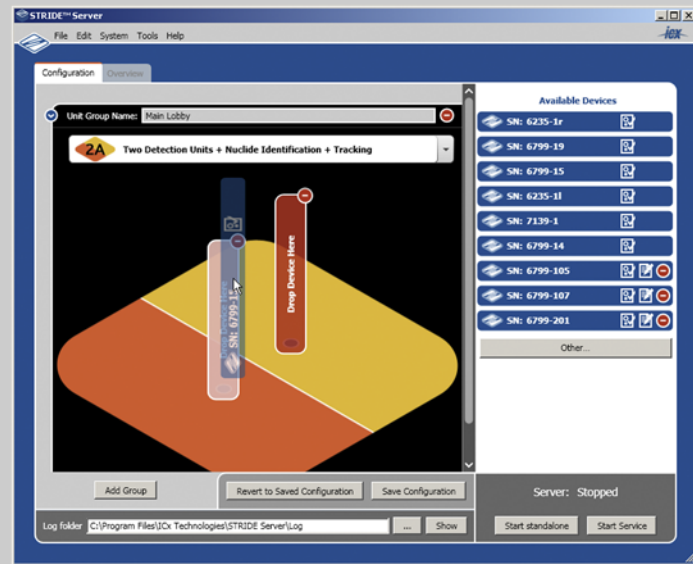
The STRIDE Server software can communicate to a multitude of instruments such as

- STRIDE Detection Units
- ICx Technology or third-party instruments
- GPS receivers, temperature or pressure sensors, and other measuring devices

## Data Management and Processing

All calculations are done by modules of the STRIDE Server. The number and versatility of computing modules is growing steadily, and all clients will immediately benefit from better STRIDE Server algorithms and performance.

- **Identification**  
This is one example of many different measurement data computation and analysis that can be done by the server.
  - **Tracking**  
Calculating the current position of a moving radioactive source is one possible tracking that the system can do.
  - **Logging**  
All data collected and processes by the STRIDE Server are logged for archival and deferred evaluation.
- Data Supply for Clients



## DATA SUPPLY FOR CLIENTS

To ensure an easy handling of the measurement results for either STRIDE or third party client software, the STRIDE Server provides different communication protocols.

- **Data Protocol**  
Very detailed measurement data. It provides several data channels like spectrum data, identification, dose rate etc.
- **Control Protocol**  
This is used for instrument control needs like start, stop, light on/off, sound on/off etc.

# SPECIFICATIONS

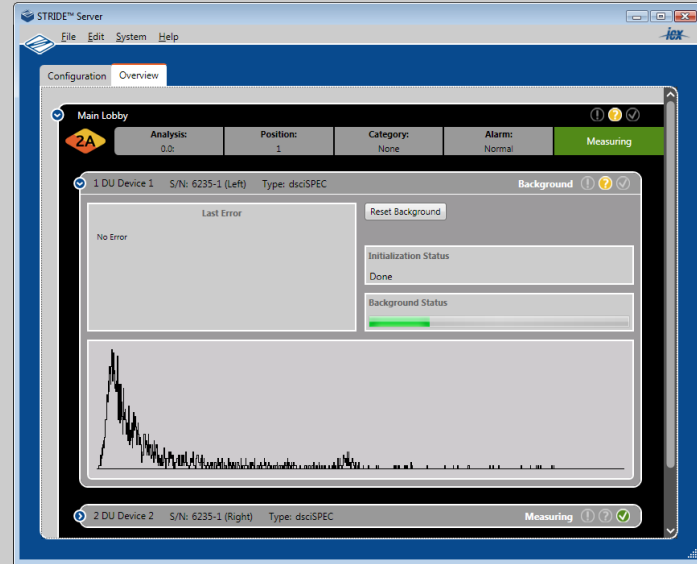
## SYSTEM REQUIREMENTS

<b>Operating System</b>	Windows XP and above
<b>Library</b>	Microsoft .NET Framework 3.5 Service Pack 1 (included on Installation Medium)
<b>Network Interface</b>	Ethernet or W-LAN
<b>Network Speed</b>	> 10 Mbit
<b>Storage Requirements</b>	14 MB per hour per Detection Unit

## FEATURES

<b>Easy Installation</b>	Complete System setup within Minutes
<b>Automatic Integration of different Detection Unit Types</b>	DU 2xx-Series, 3xx-Series, 4x-Series, 7xx-Series, 8xx-Series
<b>Automatic Integration of different Hardware Options</b>	GM Tube, Neutron Counter, GPS, etc.
<b>Fail Safe Operation in Multidetector Configurations</b>	As long as 1 Detection Unit is measuring the system is operable
<b>Automatic Threshold Calculation</b>	Depending on Radiation Background, Number of Detection Units, etc.
<b>Position Determination</b>	Depending on chosen Model, starting with 2 Detection Units
<b>Automatic Logging</b>	Second wise Spectra and Dose Rates, Alarms and System Events
<b>Automatic Logrotation</b>	Prevents running out of Hard Disk Space
<b>Easy Communication Protocols</b>	STRIDE DP/CP XML Protocols
<b>Detection Unit Grouping</b>	From 1 to n Detection Units
<b>Multiple and Independent Detection Unit Groups</b>	e. g. Main Entrance and Elevator managed by 1 Server
<b>Alarm Categories</b>	based on HPRDS
<b>Model Based Configuration</b>	Multiple Models shipped, New Models easy to implement
<b>Automatic Nuclide Classification</b>	NORM, SNM, MED, IND
<b>Automatic Nuclide Categorization</b>	Innocent, Suspicious, Threat
<b>Fast Identification</b>	within 1 second depending on Detection Unit
<b>Easy Extensibility</b>	Through new Modules, without Server Update

Complete specifications available on request.



## VARIANTS

Following variations of this device are available. Specifications differing for the variants are marked in the table.

\*1 STRIDE Server 1.9 Identification and tracking capabilities

*For situations not covered by these variants please contact our Marketing and Sales Department at the email address or phone number listed below.*

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