SCIM®

Plug and Play Sensor Connectivity
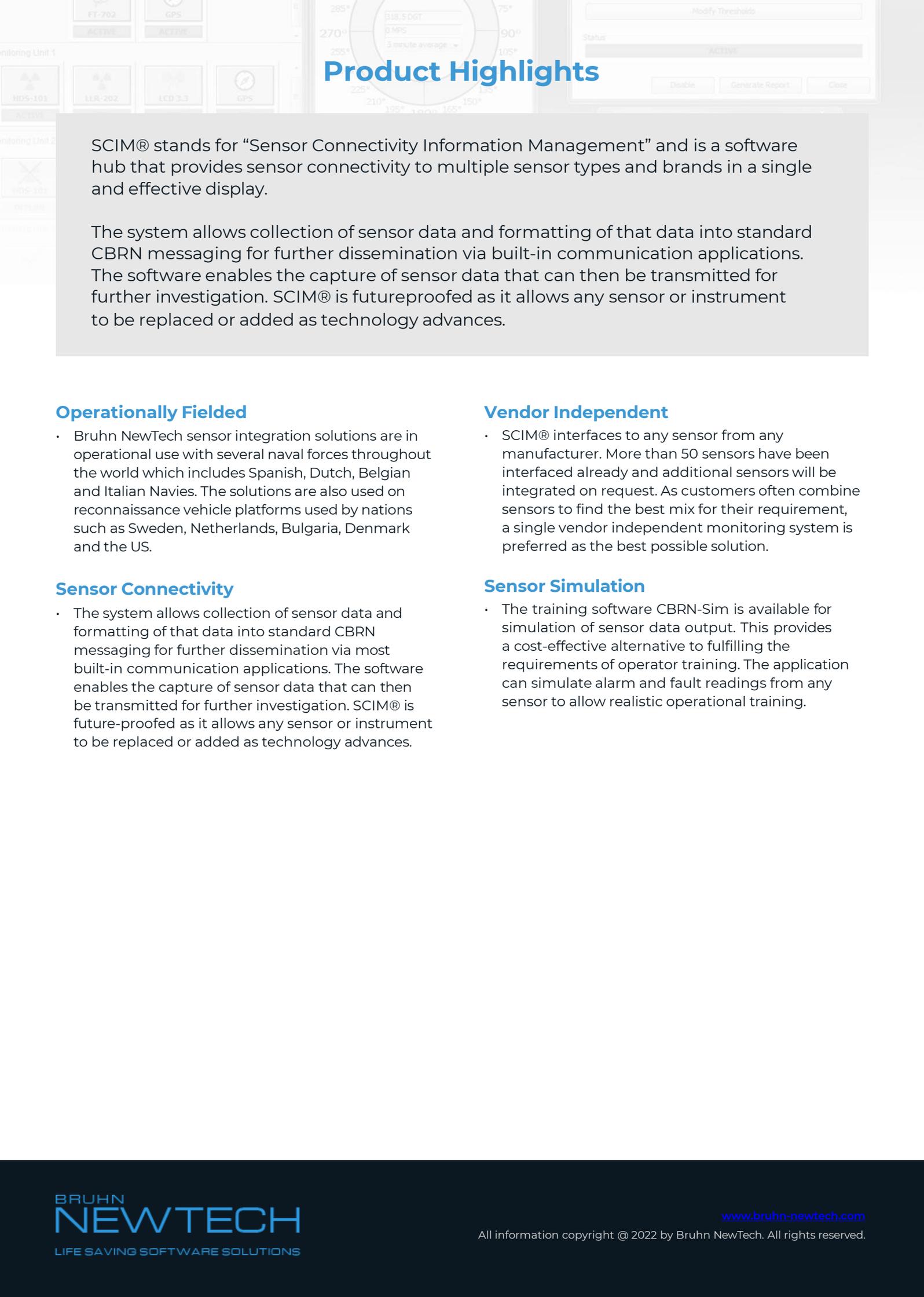

Key Features

- Sensor Connectivity
  - Interfaces to sensors
  - Decodes data from sensors

- Sensor Monitoring
  - Analyse data from sensors
  - Shows the current status of connected sensors
  - Provides sensor control: off, online, mode, settings, etc.

- Logging
  - Continuous storage of all sensor log events
  - Archiving of log data

- Alarming
  - Notify operator(s)
  - Submit alarm and report to CBRNe Management software

- National Language Support can be provided

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Product Highlights

SCIM® stands for "Sensor Connectivity Information Management" and is a software hub that provides sensor connectivity to multiple sensor types and brands in a single and effective display.

The system allows collection of sensor data and formatting of that data into standard CBRN messaging for further dissemination via built-in communication applications. The software enables the capture of sensor data that can then be transmitted for further investigation. SCIM® is futureproofed as it allows any sensor or instrument to be replaced or added as technology advances.

Operationally Fielded

- Bruhn NewTech sensor integration solutions are in operational use with several naval forces throughout the world which includes Spanish, Dutch, Belgian and Italian Navies. The solutions are also used on reconnaissance vehicle platforms used by nations such as Sweden, Netherlands, Bulgaria, Denmark and the US.

Sensor Connectivity

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Vendor Independent

- SCIM® interfaces to any sensor from any manufacturer. More than 50 sensors have been interfaced already and additional sensors will be integrated on request. As customers often combine sensors to find the best mix for their requirement, a single vendor independent monitoring system is preferred as the best possible solution.

Sensor Simulation

- The training software CBRN-Sim is available for simulation of sensor data output. This provides a cost-effective alternative to fulfilling the requirements of operator training. The application can simulate alarm and fault readings from any sensor to allow realistic operational training.

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Product Specifications

The SCIM® package consists of
- SCIM® Client
- SCIM® Server
- SCIM® Administrator Tool
- SCIM® Installation and User's Reference Guide
- Software License Key protection

Note – SCIM® is an Export Controlled software application covered by category ML21.a in EU directive 2014/108/EU.

Technical Specifications

Hardware Requirements

Components	Requirement
Processor	Intel Core-i5/AMDRyzen 3700X
Free memory (after OS loaded)	≥1.5 GB
Graphics/memory	≥512 MB, ≥24-bit colours
Screen	≥1920x1080
DVD-drive	Depending on installation
Hard disk space (Application and CBRN data)	≥1 GB
Network adapter	Required for communication with sensors and CBRN applications
COM ports	Required for communication with sensors

Note - If the program must run simultaneously with other applications, the requirements should be extended accordingly.

Software Requirements

Operating System (OS)	Service Packs
Windows 8.1 Pro, 32-bit or 64-bit	
Windows 10 Pro and Enterprise, 64-bit	The latest Service and Security Packs must be installed.
Windows 11 Pro and Enterprise, 64-bit	

Sensor/Instrument support

Manufacturer	GPS
Northrop Grumman	LITEF LLN-GY-4X
Telerob	Telemax
Multiple Vendors	NMEA-183

Manufacturer	Meteorological
FT Technologies	FT-702
FT Technologies	FT-742
IRDAM	6056 B, BC, BCGPS & H, HC, HCGPS, 6000, 5000B & H
Thales	METSMAN

Manufacturer	Explosive
Bahia	MO2M
FLIR	Fido

Manufacturer	Surveillance
Multiple Vendors	IP Cameras

Manufacturer	Radiological
BMD	MRD-1000
Bruker	SVG-2
Bruker	Radiation Probe
CANBERRA	ANVDR-2
CANBERRA	ADM-300
CANBERRA	AN/UDR-14
CANBERRA	NASRAM
Mirion	Spir-Id
Mirion	Spir-Ident Mobile
Mirion	LLR 202
Mirion	HDS 101
Polimaster	PM1401
SAIC	GR-135
Telerob	Telemax
Thermo Scientific	SVG-2
Thermo Scientific	RADEye G10
Kromek	D5
FLIR	Identifinder R425

Manufacturer	Chemical
Bruker	RAID-1
Bruker	RAID-M
Bruker	RAID-M 100
Bruker	RAID-S
Bruker	RAID-S2
Bruker	RAID-S2 Plus
Bruker	RAID-XP
Bruker	RAPID (Stand-off)
Bruker	E2M
Bruker	MM2
Bruker	TIMON
Drager	X-AM 7000
Dräger	X-AM 8000
Environics	CHEM Pro100i
FLIR	CHEM Sense™ 600
OwlStone	OCAM
Proengin	AP2Ce & Ve
Proengin	GARDS (Combined AP2Ce)
Proengin	AP4C
Proengin	AP4C-V
RAE Systems Inc.	MultiRae (PGM-6248)
RAE Systems Inc.	MultiRae plus (PGM50-4 PGM50-5P)
RAE Systems Inc.	MultiRae Pro
SEC Technologies	Falcon 4G (Stand-off)
Smiths Detection	LCD-3.2e
Smiths Detection	CAMPlus
Smiths Detection	MCAD
Smiths Detection	LCD-3.3
Smiths Detection	NEXUS
Telerob	Telemax
Thermo Scientific	First Defender RMX
908 Devices	VipIR,
908 Devices	XplorIR
908 Devices	ProtectIR
908 Devices	ThreatID
908 Devices	InterceptIR
908 Devices	MX908
Bertin Environics	ChemProX

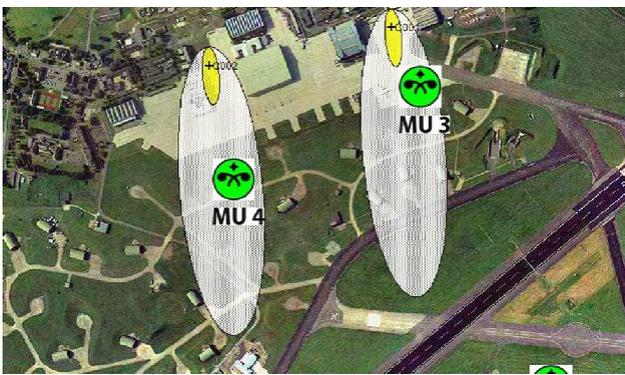| Manufacturer	Biological
Bruker	pTD
Dycor	C-Flaps
FLIR	IBAC
FLIR	IBAC 2
SEC Technologies	Falcon 4G S+ (Stand-off)

The listed sensor drivers are available Commercially of the Shelf (COTS) today, but any sensor can be easily added to the list on request.
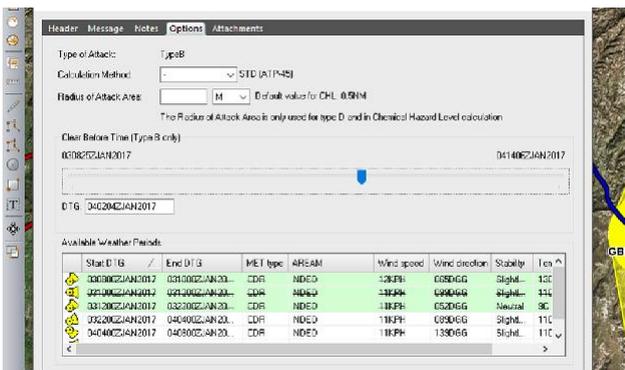
Related Products

CBRNE-Frontline

- CBRNE-Frontline is a CBRNe Incident and Information management application for use in a wide range of situations requiring accurate incident and hazard prediction information to be made available to initial responders as rapidly as possible.

- CBRNE-Frontline is intuitive and easy to understand, removing some of the complexities associated with CBRNe hazard prediction and information management. This ease of use makes it an ideal tool for non-CBRNe specialists.

CBRN-Sim

- CBRN-Sim adds real time simulation of CBRN Ground contamination and Airborne hazards to SCIM® for Operator Sensor Integration Training.

- CBRN-Sim is a planning tool that allows an instructor to plan a scenario with chemical hazards including ground contamination and vapour, radiological hazards and nuclear fallout.

- CBRN-Sim provides the ability to add materials that generate false positive results for some of the sensor types.

CBRN-Analysis

- CBRN-Analysis is an advanced, off-the-shelf software-based CBRN Knowledge Management Application that includes Hazard Prediction and Warning and Reporting.

- Configurable and modular, it provides commanders with rapid and accurate information to increase their CBRN situational awareness within an area where CBRN materials may be used.

- CBRN-Analysis effectively supports and enhances risk-management in all phases of an operation, both in the planning and pre-deployment phase, in-theatre and in the post-conflict or recovery phase.

Additional Information

More information can be found at: **www.bruhn-newtech.com.**