PRODUCT OVERVIEW
The vision of Kolibri Systems is to empower organizations in enhancing the safety, efficiency and sustainability of their operations by providing the most versatile control room solution for communication with their mobile work force.

The Kolibri solution is a modular solution and is configurable to the customer specific environment and needs. The Kolibri solution provides a control room operator with a more efficient and comprehensive overview of the mobile work force, which leads to a more efficient and quicker response.

Kolibri solutions are based on 30 years experience in developing mission critical control room applications, including the dispatch application development for the Dutch Public Safety network C2000.

Kolibri is available as a commercial off-the-shelf product that can be tailored to the specific requirements of customers with varying communication needs. Implementations may vary between a single Track & Trace console to a redundant and geographically distributed multi-console solution.
Why customers choose Kolibri

✓ Seamless integrated communication platform

✓ Modular

✓ From COTS to fully customized solutions

✓ Customizable automated responses and graphical user interface

✓ Integration with a broad range of external systems

✓ Scalability from single PC to redundant servers with many consoles

✓ Smooth migration scenarios through simultaneous use of many different radio networks (TETRA, DMR, NXDN, Analog)
Kolibri sector specific solutions

Security services
Lone worker | Guard tours | Object security
Alarming dispatch

Oil & Gas
Offshore and Onshore facilities | Large distances
Redundancy | Safety regulations

Utility companies
Power lines and Power plants | Long distance coverage
Redundancy | Personnel safety

Government agencies
Urban Sanitation services | City Guards | Waterway services
Parking Police | Street coaches | Highway services | Disaster response

Urban transportation
Trams and bus companies | Taxi services | Metro services
Ticket inspecting teams | Line / route tracking

Airports
Airport Security services | Bagage handling | Firebrigade
Ground operations | “Bird strike” prevention

Musea
(covered) Support communication | Art object movement monitoring
Clustered museum control rooms operations | Large events

Public Safety
Police | Ambulances | Firebrigade | Incident management
Multi-disciplinary Control Room operations | Situational awareness

Industry
Hazardous working environment safety | 24/7 Continuous operations
Remote control | Industrial accident response | Incident forwarding

Hospital
Nurse calling forwarding | Facility Security

Harbour industry
Dangerous working areas | 24/7 Continuous operations
Maritime radio communications | Industrial accident response

Military
Military base security | Access rights control
Search And Rescue

Mining industry
Employee security | Vehicle tracking | Indoor tracking
Dispersed locations > clustered control room | Asset tracking

Transport
Asset tracking | Work order system | Logistics
Factory security

Kolibri product suite

The Kolibri product suite is divided into three product lines, providing customers the choice that best fits their requirements, processes and needs. These are the Kolibri Standard, Kolibri Custom and Kolibri Special solutions.

The Kolibri Standard solutions are preconfigured “Ready To Go” solutions that are available for all major radio network platforms. Add-ons can be ordered separately.

The Kolibri Custom solutions involve customer specific configuration for those customers with requirements or needs that surpass the Kolibri Standard product. The extensive configuration capabilities of Kolibri enables solutions that fit specific needs, without costly and risky software development work.

The Kolibri Special solutions involve customer specific software development work. This enables the implementation of very specific solutions that are not possible through configuration. Kolibri Systems lends on a background of more than 30 years of experience in developing mission critical control room applications.

**Kolibri Standard**

Preconfigured Commercial Off The Shelf solutions.
A cost effective solution that meet most of the customers requirements.

**Key aspects**
- Easy to setup
- Predefined modules
- Radio network independent
- Modular: select what you need

**Kolibri Custom**

Customer specific configuration, done by Kolibri Systems.

**Key aspects**
- Customer specific configuration of behaviour and user interface
- Simultaneous use of multiple radio networks
- Connection to external systems
- Assistance from Kolibri Systems with configuration and commissioning

**Kolibri Special**

Customer specific software development.

**Key aspects**
- Custom software development
- Extensive cooperation between the system integrator, Kolibri Systems, and the end-user organization
The Kolibri Standard product line is a Commercial Of The Shelf solution that offers lots of functionality with its modular structure. The various modules provide an easy and scalable solution that is cost effective and brings the strength of digital communication to your control room. Kolibri Standard is optimized for small to medium sized installations that utilize a single radio network.

The Kolibri Standard solution is available as a fully wireless, fully wired, or hybrid connected solution to radio networks.

### Kolibri Standard modular solution

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### Kolibri Standard modular solution

<table>
<thead>
<tr>
<th>Konlibri radio system connections</th>
<th>TETRA*</th>
<th>Mototrbo</th>
<th>Nexedge</th>
<th>Analog</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wireless voice</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Wireless data</td>
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<tr>
<td>Wired voice</td>
<td></td>
<td></td>
<td>Option**</td>
<td></td>
</tr>
<tr>
<td>Wired data</td>
<td>•*</td>
<td>•</td>
<td>○</td>
<td>X</td>
</tr>
</tbody>
</table>

- = Available  
〇 = Roadmap item  
*= not available
**Requires Motorola NAI arrangement

### Kolibri features:

- Multiple radio network types (TETRA, DMR, NXDN or analog)
- Multiple geofences
- User friendly GUI
- Tracing
- Multiple languages
- On-screen information window
- GPS location tracking
- Talkgroup affiliation
- Indoor location tracking (Bluetooth)
- Network registration
- Location query
- Predefined text messages
- Lone walker
- Emergency handling
- Multiple map formats
- Configurable screen(s) layout
- Text messaging
- Dynamic radio aliases
- Dynamic regrouping (DGNA)
- Multiple user profiles
- Patch
- Callback request
- Voice Logging
- XML

(exact functionalities and capabilities depends on product type and radio connection setup)
Kolibri modules

As each customer is different, Kolibri has different modules available. A module can be a specific functionality or a dedicated gateway to a radio network or other application. Some of the available modules are shown here.

Paging module
To alert their safety personnel, many organisations rely on paging systems. With the Kolibri Paging module, paging is fully integrated into the Kolibri Control Room solution.

Job Ticketing module
With Job Ticketing, the customer acquires a state-of-art ticketing system that is truly radio system independent. It can work on all radio types that can receive messages, as well as using the Motorola Work Order system.

Video surveillance module
Many organizations use video surveillance. Integrating video in one application provides better overview and quicker responses. The video surveillance module can be integrated with the map for even quicker situational awareness.

Indoor Tracking module
There are many places where GPS coverage is not available, mostly indoor. With an indoor positioning system there is no absence of location information. When using Kolibri, there is no difference between outdoor and indoor tracking.

Kolibri Logging module
Logging for reporting, training purposes and incident investigations is possible with the Kolibri Logging module. The KoliReplay tool that comes standard with the logging module provides an easy to use client to replay the logged voice and data.

Email module
The Kolibri email module can be used in multiple ways: just sending and receiving email or used in an automated response/forward solution.

Telephony module
Kolibri has a versatile SIP gateway to connect to telephone PABX such as Avaya, Asterisk and Siemens. Patching calls between radios in the field and telephones is easy.

XML module
Centralization of control is important, i.e. opening gates or control lighting system. The integration with external systems is possible with the Web Based Remote Control and/or XML Gateway module.
Kolibri Custom features & capabilities

The Kolibri Custom product line enables the full capabilities of the Kolibri product. A COTS solution that is able to meet even the most challenging demands from customers by configuration work only.

**Trigger Event**
The Trigger-Event Mechanism makes implementing the customers’ enterprise logic into Kolibri possible without costly and risky development work.

**KoliLink - Network enhancements**
KoliLink is built to connect multiple connected organizations with one shared radio network while having Agency Partitioning between all organizations.

**Multiple radio networks**
When one organization utilizes different types of radio networks, often a different dispatch applications for each radio network are needed. With Kolibri, you have the possibility to connect to multiple radio networks from within one and the same application.

**Example of enterprise logic**

- **Automated alarm**
  - Radio user in dangerous area
- **Timer**
  - Time elapsed
- **Action**
  - Text message “All OK?”
  - No response?
- **ALARM**

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Kolibri Product Overview
Kolibri is built upon 25 years of experience in developing Mission Critical Control Room applications.

As subsidiary of Cuperus Consultants, the engineering company that developed the ‘Specials’ for the Public Safety network in the Netherlands called C2000, Kolibri can build on the gathered experience in software development and commissioning.

With many radio system manufacturers Kolibri Systems has a partnership or is a development partner.

*Kolibri Specials* is for those customers that are in need of specialist software to improve their communication with the mobile workforce.

**Key features:**

- Customer specific software developments
- Project management
- Large scales projects

Cuperus Consultants and Kolibri Systems are both ISO 9001 : 2008 certified.
Kolibri Connections

Kolibri Wireless solution
Depending on the Kolibri product there are two different Wireless connections possible. If voice is required the radio(s) are connected via the Kolibri MediaServer. If no voice is required, the radio can be directly connected to the PC (dataradio).

Kolibri Hybrid solution
The Kolibri Hybrid solution uses the wireless connection via the Kolibri MediaServers for voice, while the IP line connection for data provides extra functionalities to Kolibri.

Kolibri Wired Solution (TETRA)
If high voice capacity needs are required, Kolibri offers the Wired voice solution.

Kolibri Wired solution (Mototrbo)
Kolibri has a direct IP line connection for voice and data to the Motorola repeaters for IPSC systems. For (Linked) Capacity Plus, the IP wired connection provides data and voice (Rx) connectivity, for voice Tx donor radios are used. A fully wired connection requires a arrangement with Motorola.
Configurable GUI

To meet with the demands of customers to have a Graphical User Interface dedicated to their needs, the GUI of Kolibri is fully configurable. Users have the freedom to have a screen layout that best suits their role.

Besides the fully configurable GUI, the Kolibri solution supports:

- Free seating and/or designated seating
- Role based GUI layouts
- Possibility to integrate different external applications in a single GUI.

Up to six connected screens

KoliTrack, screenlayout with information pages.

Kolibri, screenlayout with map, matrix and other informational pages.

Kolibri, screenlayout with voice control on the left and maps on right screen.
3rd Party options

Kolibri Systems can deliver accessories to your Kolibri solution to deliver the best possible use of the system.

**TIPRO Touch screens**
Kolibri can be used in combination with touchscreens. We have a wide experience with the TIPRO touchscreens PCs. TIPRO touchscreens PCs are available in two sizes: 15” and 10.4”. The 15” model can be expanded with several modular accessories, such as a gooseneck + speaker module, phone set and keypad. The 10.4” model has a built-in microphone, speakerset and PPT button.

**Microphones:**
Kolibri is compatible with different sets of microphones or headsets, connected using USB or analog ports.

**Peiker**
Peiker is a is a well known German manufacturer of professional communication equipment. Kolibri is compatible with Peiker microphones that use a USB connection.
- Peiker PS12-USB tablemike.

**Imtradex**
Imtradex manufactures high end microphones. In our product portfolio we offer the:
- Imtradex TM2 (USB connected)
Standard warranty
Each Kolibri product comes standard with one year warranty on software and hardware components delivered by Kolibri Systems.
This includes:
• One year of software support and warranty
• One year of hardware support and warranty

Extended warranty
For most Mission Critical environments, there is no place for interruption or loss of functionality. With improving technology, Kolibri is constantly enhancing its product suite to implement new capabilities and functionalities.

To have access to the latest software release with fixes, new functionalities and extended support at your disposal you can purchase the Support and License Renewal. The Support and License Renewal guarantees that you always have the latest release, features and functionalities of Kolibri.

The Support and License Renewals:
- Hardware warranty
- Software 1-2 years extended
- Software 3-4 years extended
- Software 5 years extended
- Software 6 years or more

This program includes:
- The latest release of Kolibri on your system to be up-to-date and all new features.
- More than one year hardware support and warranty
- Support at no extra cost.
- Map renewal (optional)
Requirements

Server/Server and Client PC requirements
- Windows Server 2008 (Server only)
- Windows 7 professional (Server only or Server and client on a single PC)
- min. 500 Gb disk (Server) (32 or 64 bit)
- 2 x 1024 Mb Internal memory (Server)
- Intel Core 2 Duo processor
- Min 1 USB, advised 4 USB ports

Client/console PC requirements
- Windows 7 professional (32 or 64 bit) or higher
- min. 500 Gb disk (Server)
- 2 x 1024 Mb Internal memory (Server)
- Intel Core 2 Duo processor
- Min 1 USB, advised 4 USB ports

Currently supported map formats
- SHAPE (ESRI) / TAB
- BMP (or any raster to be transferred to .bmp)
- AutoCAD / CAD maps

Switch connections
- Motorola Dimetra (R6 and higher), including: SDR, ATIA, CADI, DCS and MCC7500
- Rohde & Schwartz (TETRA)
- DAMM TetraFlex
- Rohill TetraNode
- Motorola MOTOTRBO (DMR)
- Kenwood NEXEDGE (DMR)

Media Server dimensions
- Size: 1U
- Power over Ethernet
- Fixtures available to mount in 19” rack
- Connection available for two radio’s
- LAN UTP ports

Supported radio’s
- Motorola MTM5000 series
- Motorola MTM800E
- Cleartone CM9000
- EADS TMR880i
- Sepura CR3900
- Motorola Mototrbo DM3000 series
- Motorola Mototrbo DM4000 series
Other radio upon request

Advised minimum audio capacity requirements
- LAN: 250 kbps available per audio stream (either a console, radio connected to the gateway)
- Minimum of 2 radio channels

Languages
Language support based on UTF8 character set.
Currently implemented: Dutch, English, French, Portuguese, Dansk, Brazilian Portuguese, Greek, Spanish, German.

Note: the system requirements described here can be changed due to advancing techniques and newer software versions. Information is subject to change without notice.
For more detailed information about the latest requirements, please contact Kolibri Systems directly.
Information

Kolibri Systems is a software developer devoted to control room applications such as dispatch and tracking. A responsive company, based in Delft, the Netherlands, next to Delft University of Technology, we excel in working with our customers to build a customized control environment that meets their specific needs.

As a subsidiary of Cuperus Consultants, Kolibri Systems can benefit from 30 years of experience in Control Room applications and software development. We designed some of the key Mission Critical applications that are currently in use at the Public Safety Control Rooms across the Netherlands for Police, Fire brigades and Emergency services.

Colofon
This booklet is made by Kolibri Systems to provide you with information of Kolibri Systems’ product suite and capabilities. If you need more information about the Kolibri Systems’ product suite please contact us directly or one of our partners. Although this booklet has been carefully composed no rights can be derived from the information provided. System capabilities, specifications and functionalities are subject to change without notice.

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BRINGING THE STRENGTH OF DIGITAL COMMUNICATION INTO YOUR CONTROL ROOM

IMPROVING YOUR ORGANIZATIONS EFFICIENCY AND SAFETY

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