Overview of the Kaba Workforce Management

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Collect your data with Kaba

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B-web and B-Net® terminal series – investment protection through compatibility and subsequent delivery

For your kiosk and Internet solutions – Kaba multi-functional terminals

Mobile data collection – optimizes your business processes

Access control – to let you know «who-when-where»

Access control managers – intelligent, autonomous and universal

What distinguishes the controls

Kaba access manager 92 00

What distinguishes the controls?

B-Net 92 50 and B-Net 92 90

Registration units and subterminals

Complementary subterminals – to make your access solution an integrated one

CardLink® components – make use of a virtual network

Collection media – Are you also opting for RFID?

B-COMM® – the integration platform for your solution

The partner concept

Services – the basis of partnership
Collect your data with Kaba

Why? This brochure will give you the answer. Get an overview of the Kaba product portfolio for solutions in enterprise data collection. This portfolio consists of terminals and components, communications software as integration platform, partner applications and services.

**We offer**

> Support during the implementation of your solution through qualified consulting and concepts. This allows you to react quickly and reliably.

> Ideally matched hardware and software components. This ensures functional reliability for years to come.

> High installation quality and qualified support at any time. This minimizes your implementation costs.

**Solution Excellence**

The solution offered will exactly meet your requirements. It is individual and yet standard and is capable of adaptation and integration.

**Operational Excellence**

Our solutions are easy to put into operation. All components are high-quality and guarantee safe and convenient operation for years to come.

**Business Excellence**

We are continually improving our organizational processes, in order to be a quick and professional business partner for you.

**Investment Excellence**

We supply you with an economic solution. Our systems are compatible, easy to expand, long-lived and quickly pay for themselves.

Our corporate strategy is based on the philosophy of excellence. Your interests as a customer are at the center of our philosophy.
## Kaba – the advantages of a worldwide brand

1. **Technological leadership**
   
   We see technological leadership as our innovative power in developing new products and our goal to manufacture the best possible product. This has allowed us to demonstrate our position on the market of enterprise data collection again and again with successful terminal series.

2. **Investment protection**

   Our top priority when developing new terminal series is the compatibility with existing terminal series. This is how we ensure that both your existing and your new terminals can be operated in mixed installations and thus your investment can be protected for many years to come.

3. **Close relationship with the customer**

   Our customers are at the center of all our corporate activities. They help to meet our goals of openness, customer satisfaction and a long-term collaboration.

4. **Individual consulting**

   You will be given an individual consultation. Careful project planning is the basis of implementing the solution that you require.

5. **Internationality**

   We operate all over the globe. This fact distinguishes us considerably from our competitors. There are several good reasons why a large number of international enterprises and known companies worldwide are satisfied Kaba customers.

6. **Service organization**

   We have many years of project experience and have comprehensive service organizations in many countries. Functionality, operational safety, and installation security are all important factors for long-term and successful business relations.

7. **Quality**

   Kaba develops and manufactures all products in Germany according to the guidelines of a certified quality management system according to DIN EN ISO 9001:2008. Our dedicated employees have committed themselves to the goal of meeting the quality requirements of «Made in Germany» without compromise.
Products «Made in Germany» — what you need to know

We are a modern and successful manufacturer of products for time and attendance, shop floor data collection, and access control. The high demand placed on our products has always driven us right from the start to deliver a very high degree of quality and functionality.

As a company, we pursue the ideas of the philosophy of excellence as part of our corporate strategy. This takes into account people, processes and results in an integrated manner with the goal of always offering you the customer a solution that matches your requirements.

In the process, we focus not only on a sub-aspect but also that you the customer perceive us as a whole. With the implementation of business excellence, we want to create a culture and environment that promotes continuous improvement and places the customer at the heart of our activities.

Before a product leaves our company and is delivered to you, it must undergo the whole bandwidth of modern development, production and quality processes. In the process, we consistently use planning and control instruments to reduce delivery times, increase our flexibility and to offer you higher quality at an appropriate price.

We face global competition with intelligent solutions, relying on our motivated employees and their knowledge. They make sure that quality issues get their allocated place in the work processes. Our production site is Germany and our goal are quality products «Made in Germany».
Person identification
From the large number of different biometric methods, Kaba has decided in favor of fingerprint recognition as the identification method. It has been accepted as the most popular method among users and as the leading biometric method on the market. On the basis of its user friendliness, biometrics offers the opportunity of achieving a clear reduction in costs without loss in security.
Biometrics – solutions from Kaba

Kaba offers you a comprehensive range of products with which you can implement your global biometric data collection in your company. All terminals of the B-Net and B-web series can be delivered with a fingerprint reader, can be operated intuitively by simple user guidance and have proven their effectiveness for daily use in rough environments.

For the identification of an employee, you can choose between the two modes of «Identification» and «Verification».

Identification
With this convenient, badge-free procedure, the reference finger templates are stored in the system, and each person identifies himself solely with his personal fingerprint.

When an employee places his finger on the reading device, a so-called 1:n comparison is done. In other words, the finger template currently captured is compared with all the reference templates assigned to this terminal, and if it matches, authorization will be issued.

Verification
In verification, a reference template is stored on a personal RFID medium when the data is captured for the first time. Central storage and distribution of this data is not necessary, as each person carries «his/her» personal biometric data with him/her.

When a person now places his finger on the reading device, a 1:1 comparison is done in contrast to identification.

In other words, the personal reference template must first be read by the RFID medium, in order to then be compared with the finger template currently captured. If both are the same, authorization is issued.

The integration platform
B-COMM - Biometrics option
With the integration platform B-COMM - Biometrics option, we also offer you an intelligent communication structure for:
> integrated template management for the overall system,
> enrollment (first-time reading of a fingerprint)
> intelligent management and distribution of all fingerprint data to the connected terminals, irrespective of whether at only one site or at internationally distributed sites and
> combined operation of terminals with RFID and biometric readers.

Kaba has the experience and comprehensive know-how, to implement an efficient biometric solution also for you!

Max Schlatterer GmbH & Co. KG, Germany
www.schlatterer.de

«The functionality and the quality of the Kaba terminals have convinced us. We are certain that they will provide a good service for a long time. Our expectations in biometrics have been met in their entirety. The devices work perfectly, and the system is easy to operate by everybody.

We now have a uniform system for time and attendance and access control without cards, which saves us a lot of time and money, because there are no more costs for badges. Furthermore, it offers us a lot of options for the future.»

Achim Biker
Head of Organization
The terminal B-web 93 00 has been awarded the renowned reddot design award 2011
«As always, our jury has reviewed the submitted products extremely critically. Design quality clearly prevailed in the judging process and genuine, new creative solutions were also honored. Both criteria are not only an indicator of good design but also of the success potential on the market.»

Professor Dr. Peter Zec
Initiator of the reddot design award
Time and attendance – redefined for you

As innovative technology leader and traditional manufacturer of terminals we asked ourselves the question what is really important for our customers with regard to a new time and attendance terminal. The answers leave no doubt:

- Easy and reliable operation
- Flexible adaptability to existing and new requirements
- Easy installation and start-up and
- Securing normal business operations through high availability while ensuring sparing use of resources.

These customer requirements were our focus in the development of the new terminal generation B-web 93 00 for time and attendance.

What was the result?
A family of terminals that fundamentally revolutionizes time and attendance. It is characterized by a very high degree of functional innovation. The convincing design and the use of new materials creates contemporary aesthetics that harmonizes superbly with modern architecture. The goal is to meet customer requirements in time and attendance with a completely new generation of products and to redefine its unique features.

With the terminal B-web 93 00 and its modern, modular concept, we also meet your requirements of time and attendance and offer additional special features that are unique on the market.

What is new about the terminal?
- The terminal is easy, quick and safe to install.
- The intuitive operating concept «Guide by Light» guarantees easy, convenient and quick operation of the terminal.
- It can be configured for all specific requirements; different software licenses extend the broad range of different recording functionalities.
- Easy and quick system analysis using the communications software B-COMM and
- High system availability and simple replaceability.

What is left?
We have of course ensured that the proven product advantages from previous terminal series are also taken into consideration in the new generation of the B-web 93 00 and are available:

- Compatibility with the existing terminal series B-Net and Bedanet
- Integration of current RFID reading methods
- Integration of biometrics
- A variety of power supply units, preferably Power over Ethernet
- A variety of communication interfaces such as Ethernet, RS-485 or GSM
- Connection of subterminals for access control
- Use of different terminal series in mixed installations and
- Production «Made in Germany».
Terminal series B-web 93 00 – convince yourself of the five fundamental product advantages

Advantage 1: The intuitive user guidance «Guide by Light»
The intuitive operating concept «Guide by Light» guarantees easy, convenient and quick operation of the terminal. The full-screen glass front is equipped with an individually illuminated capacitive keypad.

According to the functional scope selected and thus licensed by you, the keys required for this are visibly dimmed. In contrast to this, Guide by Light ensures that the keys or key blocks required for the operation sequence always light up brightly when they are actively waiting for the entry of an input or selection step. This interaction between brightly lit and dimmed keys guides the employee intuitively through the operation.

Advantage 2: The simple expandability of the «Soft Adaption» functionalities
With the new B-web 93 00 generation, you the user determine the functional scope of your terminals. Only the functions that you have currently selected, bought and thus licensed are visible and usable on the keys of the glass front. If you require further functionalities at a later stage, you simply extend the licenses in line with your individual requirements.

The new license model from Kaba allows the terminals to be easily adapted to specific customer requirements, such as use in employee communication or in access control, and extended at any time.

Advantage 3: Simple installation «1-click installation»
The terminal B-web 93 00 consists of the terminal housing and a docking station as wall mounting element. For installation, the terminal housing is simply clicked onto the docking station and secured.

The contacting of the electronics between docking station and terminal is done automatically when clicking the terminal onto the docking station, and the terminal is ready for operation. The electrical installation and IT systems are thus separated.
**Advantage 4:**
*Simple replaceability «1-click replacement»*

The terminal B-web 93 00 is even prepared for the replacement of the terminal due to a defect or a change in the hardware option. The data does not get lost since it is stored in the background. In combination with the B-COMM integration platform, you can replace in this case the terminal B-web 93 00 simply and very conveniently with a replacement terminal.

For this, you only have to enter the serial number of the replaced terminal via the keypad, and the configurations stored in the B-COMM are then sent to the new terminal.

The actual replacement of the terminal at the docking station is particularly easy. Disengage the safety catch of the terminal B-web 93 00 to be replaced, then simply remove it and click in the replacement terminal.

**Advantage 5:**
*Easy analysis in B-COMM «1-click analysis»*

The initial start-up and a terminal replacement are made easy when using the integration platform B-COMM in combination with the terminal B-web 93 00.

B-COMM always analyzes the current status of all connected terminals and is also a tool that conveniently ensures the availability of the terminals.
Terminal series B-web 93 00 – select your functionality

With its design language and its innovative configuration concept, the terminal series B-web 93 00 is setting new standards in the world of time and attendance. You the customer determine the software upgrade. A method that is easy, highly flexible and protects your investment. In other words, the terminal «grows» with your requirements, without the need to take the terminal off the wall.

The modular concept of the terminal B-web 93 00 allows you to select individually the necessary version of the hardware and the desired software functions. We have pre-configured the broad spectrum of possible collection functions in attractive application packages. Thus, the terminal B-web 93 00 is available to you in the packages B-web 93 20, B-web 93 40 and B-web 93 60.

The new licensing model means that terminals can be easily adapted to your specific requirements. And, if necessary, a terminal B-web 93 20 acquires the functional scope of the B-web 93 60 package through the expansion of the licenses. You thus keep all your options open for the future.

Please note that for some of the hardware and software options a corresponding extension of the hardware is also required, for instance, when selecting a 230 V power supply or connecting subterminals for access control.
## Distinctions between the terminals – Terminal B-web 93 00

<table>
<thead>
<tr>
<th></th>
<th>B-web 93 00</th>
<th>B-web 93 20</th>
<th>B-web 93 40</th>
<th>B-web 93 60</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
<td>Basic device</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
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<tr>
<td>Docking station</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Capacitive keypad</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>FSTN display 320x240 pixels (QVGA) background illuminated</td>
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<td>●</td>
<td>●</td>
<td>●</td>
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<tr>
<td>User guidance Guide by Light</td>
<td>○</td>
<td>○</td>
<td>●</td>
<td>●</td>
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<tr>
<td><strong>Readers</strong></td>
<td></td>
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<td></td>
<td></td>
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<tr>
<td>RFID reader (LEGIC, MIFARE, HID)</td>
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<td>●</td>
<td>●</td>
<td>●</td>
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<tr>
<td>Other RFID readers</td>
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<td>○</td>
<td>○</td>
<td>○</td>
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<tr>
<td>Biometric module CBM / CBM-E for 500 / 3,000 / 5,000 persons</td>
<td>○</td>
<td>○</td>
<td>○</td>
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<tr>
<td>Magnetic stripe reader</td>
<td>○</td>
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<tr>
<td>CCD barcode scanner</td>
<td>○</td>
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<tr>
<td>Barcode swipe reader, infrared or red light</td>
<td>○</td>
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<tr>
<td><strong>Interfaces</strong></td>
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<tr>
<td>10/100 Ethernet Interface</td>
<td>●</td>
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<td>●</td>
<td>●</td>
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<tr>
<td>RS-485 / RS-422 host communication</td>
<td>○</td>
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<tr>
<td>RS-232 external periphery</td>
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<tr>
<td>GSM host communication</td>
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<tr>
<td><strong>Power supplies</strong></td>
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<tr>
<td>PoE according to IEEE 802.3af</td>
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<td>●</td>
<td>●</td>
<td>●</td>
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<tr>
<td>24 V AC/DC 1</td>
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<tr>
<td>230 V internal power supply unit</td>
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<tr>
<td>Uninterruptible power supply</td>
<td>○</td>
<td>○</td>
<td>○</td>
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<tr>
<td>Data retention in case of power failure</td>
<td>●</td>
<td>●</td>
<td>○</td>
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<tr>
<td><strong>Memory options</strong></td>
<td></td>
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<tr>
<td>Number of persons 200</td>
<td>●</td>
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<tr>
<td>Number of persons 1,000</td>
<td>○</td>
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<tr>
<td>Number of persons 2,000</td>
<td>○</td>
<td>○</td>
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<tr>
<td>Number of persons 10,000</td>
<td>○ ²</td>
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<td>○ ²</td>
<td>●</td>
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<tr>
<td><strong>Software modules</strong></td>
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<tr>
<td>Basic software TA1 &lt;offline&gt;</td>
<td>●</td>
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<td>–</td>
</tr>
<tr>
<td>Basic software TA2 &lt;offline/online&gt;</td>
<td>○</td>
<td>●</td>
<td>●</td>
<td>●</td>
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<tr>
<td>Extended inputs: list input, numeric input, soft keys, language selection</td>
<td>○</td>
<td>○</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Extended info: display info, mailbox texts, plain text info</td>
<td>○</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Option access incl. support of up to 4 sub-terminals</td>
<td>○</td>
<td>○</td>
<td>●</td>
<td>●</td>
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<tr>
<td>Option data encryption</td>
<td>○</td>
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<td>○</td>
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<tr>
<td>Option CardLink (LEGIC, write Mifare)</td>
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<td>●</td>
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<tr>
<td>Option DHCP/DNS</td>
<td>○</td>
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<td>●</td>
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<tr>
<td>Option http/https</td>
<td>○</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Optional AVISO programming</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>●</td>
</tr>
</tbody>
</table>

1. Optional equipment with a circuit board in accordance with the selected power supply and/or digital I/Os.
2. Determination of the version when the product is ordered. Changed designs possible by replacing the terminal.
3. If changed subsequently, the docking station must be replaced.
4. Installation is done in the substructure housing; subsequent order not possible.
Shop floor data collection supplies important key figures:
We make sure that you can use shop floor data collection as the basis for increasing productivity and reducing costs.
Companies that examine and constantly optimize cost structures and production sequences thanks to the use of modern shop floor data collection (SFDC) acquire a competitive edge and thus the prerequisite of a successful existence.

By collecting and evaluating the many levels of the shop floor data, you open an important source of information. All relevant data with regard to person-, order- or company-related events have to be collected and analyzed. Integrating this data into MES or ERP systems provides the required transparent information you will need for your strategic and operational day-to-day decisions.

Sagit, Italy
www.unilever.com

«If a customer looks only at the price tag as an individual parameter, when acquiring a data collection system, Kaba is not in the pole position. But if you consider the efficiency, quality, performance and the technological standard of the solution, Kaba has by far the best system you can choose.»

Paolo Parlagreco
Head of EDP of Unilever Italy
Shop floor data collection – select your performance features

Kaba will assist you in the implementation of your SFDC concept by supplying you with a wide range of terminals, components and services.

We offer you a wide range of products, including the terminals B-web 95 00, B-web 95 20 and B-web 95 40. The B-web series is supplemented by the area terminal B-Net 95 60.

On the one hand, the SFDC terminals are robust so that they can also be operated with dirty fingers; on the other hand, they are also convenient so that as much information as possible can be conveniently retrieved. The large variety of different versions allows you to perform all the functions that you demand of SFDC. All terminals are distinguished by comprehensive functionality, ergonomic construction and attractive design.

The requirements of efficient collection of SFDC data are manifold. Nevertheless, it must be simple, quick and secure. Not only the input of individual segments, but also the dialogs between man and terminal require powerful displays, clearly labeled keys and automated collection of SFDC papers. These performance characteristics are met by our terminals in full.

Alternatively, all SFDC terminals can also be supplied with a biometric fingerprint reader. Experience has shown that biometric data collection also works in rough production environments practice-oriented. It guarantees person-related, unmistakable data collection.

All terminals are equipped with easy-to-read, illuminated displays. In this way, you can display all necessary collection steps, dialogs or lists.

Particular attention has been paid to using suitable keypads. They are distinguished by the size of the keys, clear labeling, and ease of operation.
### Distinctions between the terminals – terminal B-web 95 00

<table>
<thead>
<tr>
<th>Terminal B-web 95 00</th>
<th>Terminal B-web 95 20</th>
<th>Terminal B-web 95 40</th>
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</table>
| The user-friendly base terminal B-web 95 00 already offers you everything that you need for simple processes in shop floor data collection. The particular advantage of the B-web 95 00 are the flexible extensions of its functions. You can thus configure the terminal with individual functions or optional application packages. To this end, we have already taken the different requirements of data collection functionality into account and combined them in the option packages.

- B-web 95 20
- B-web 95 40

First acquire only the functions that you want to use. You can then extend the functionalities according to your individual requirements by the necessary licenses. |

With its functional scope, the terminal B-web 95 20 is ideal for shop floor data collection (SFDC) in small companies and branches. For the standard functionalities such as logging jobs on/off or entering the reasons for disruptions, it is equipped with 16 functional keys. These keys are clearly marked on the display for simple operation and can be directly selected.

The memory of the B-web 95 20 is already prepared for 1,000 master records and 4,000 bookings.

If you want to adapt the terminal to your specific requirements, you can parameterize the keys and input steps individually. Integration into networks is done via the standard Ethernet interface, which can also be used for connecting the power supply via Power over Ethernet (PoE).

For use in industrial environment, the terminal is equipped with an elastic protective frame; a protective housing made of metal can also be supplied as an option. |

The B-web 95 40 is your terminal for complex requirements of shop floor data collection. It is supplied with a comprehensive functional package and can therefore be used immediately. Starting from this moment, all the relevant data of the current conditions and processes in your company are recorded. A large, graphic display offers you as a user a lot of space for the depiction of data and the display of individual information. The wear-free, easy-to-clean keypad facilitates simple operation through Guide by Light and thus supports error-free data collection.

For the inquiry and display of machine conditions, B-Net 95 40 is optionally equipped with a number of digital inputs and outputs. Another option is the expansion of the memory to 10,000 master records and 50,000 posting records.

In the process, 16 freely definable collection processes each with up to 18 collection steps facilitate the adaptation to existing processes or new tasks. Individual special requirements can be integrated elegantly using the optional programming language AVISO.
Shop floor data collection terminal B-Net 95 60

Due to its performance features, the B-Net 95 60 can be used universally as area terminal. This is made possible, for example, by its flexibility and number of possible collection sequences, its support when operating via labeled function keys and its language selection during operation. Use the brilliant graphic display for convenient selection, display and scrolling through lists.

Due to its design, the B-Net 95 60 is also used in very rough industrial environment, for example in steel works or in ship building. It is equipped with a sturdy, glass-fiber-reinforced housing, which makes it resistant to heat, dust, cold and moisture.

YOUR BENEFIT

> **Investment protection:** Compatibility with the complete B-Net and Bedanet series makes it possible for you to run mixed operations with already installed Kaba systems and any extensions.

> **Operating modes:** Depending on the requirements, online, offline or autonomous operation.

> **User guidance:** The recording dialogs are displayed to the operator via an easy-to-read, graphical display. Freely inscribable insertion stripes mark the function keys during the collection process. Language selection for user guidance.

> **Keypad:** The 20 large, freely definable function keys and 6 special function keys are equipped with a tactile response for reliable recording of data. The input of information is done via a numeric keypad with an alphanumerical input function. A barcode CCD scanner can be connected as a 2nd reader for the recording of barcode information on production records.

> **Interfaces/Integration:** The terminal can be integrated into a network via an Ethernet interface with DHCP/DNS or into a partyline network via an optional RS-485 interface. Serial interfaces for the connection of third-party devices such as scales, etc. are optional.

> **Reading method:** As a standard feature, the B-Net 95 60 is equipped with the RFID system LEGIC, MIFARE or HID. Other reading methods such as inductive, barcode swipe, barcode CCD scanner, magnetic stripe, etc. are available.

> **I/Os:** The B-Net 95 60 has 4 digital inputs, for example for machine monitoring and 2 digital outputs.

> **Memory:** Flexible and expandable memory configuration for up to 10,000 master records and 50,000 posting records.

> **Data security:** A battery-packed memory and automatic restart of the terminal after a power failure make sure that the system becomes again immediately available to you without restrictions. Encryption of the data.

> **Options:** Memory extensions, pedestal for indoor installation, AVISO interpreter for individual function extensions and fingerprint reader for biometric data collection.
Compatibility and subsequent delivery protect your investment

Each product is subject to a life cycle. Inventions, new technologies and market requirements result in the development of new products. This is why we have developed the new B-web terminal generation.

In addition to the market launch of the B-web series, the entire B-Net terminal series will remain available. We owe it to you as our customers to protect your investments made in our products up to this point.

We achieve this through:

> subsequent delivery of the B-Net series for another three years, following the announcement that the product in question is to be phased out.
> spare parts supply for the next five years
> product support of up to eight years

The compatibility of the B-Net and B-web terminals with each other safeguards your investment. This is guaranteed by the same data structure and same data communication with the application programs.

This functionality allows you to use your existing terminals and also B-web products in mixed operation.

This is what we understand by investment protection for our customers.

Terminal series B-web and B-Net – investment protection through compatibility and subsequent delivery
With the new multi-functional terminals, we set new standards for:

> Shop floor data collection
> Time and attendance
> Employee self service
> Cafeteria data collection
> Industrial PC
> Portal applications
> Measurement collection
> Internet terminal
For your kiosk and Internet solutions – Kaba multi-functional terminals

Can you imagine using a PC-based terminal together with different applications for obtaining company-wide information?

The PC-based multi-functional terminals B-Net 95 80 and Kaba Benzing multitouch are precisely suited for these. They combine the classic data collection applications with your individual solutions. The multi-functional terminals make your resources transparent and plannable.

If terminals were intended up to now in most cases for a specific purpose, PC-based terminals are now gaining acceptance in multi-functional applications.

Operational reliability and availability is at the top of the priority list. The terminals are designed for operation around the clock, 7 days a week.

A striking feature of the TFT display suitable for daylight in various resolutions and sizes is its luminosity. Even with overhead light, for example the orders released for production at this workplace can be perfectly read along with the accompanying information. The display has been designed as touch screen for industrial applications. The display is sensitive to touch and can be easily operated even with work gloves.

The B-Net 95 80 and Kaba Benzing multitouch, unlike a purely industrial PC, has many functions permitting easy and error-free operation by the employees. They are intended for an operator who does not work with a PC on a daily basis. The operator is guided safely through the operating sequence in his/her own language. The entered data are checked and validated, before they are processed in the system.

For identification of the user, a contact-less RFID reading method (LEGIC, MIFARE, HID) is used; alternatively, a biometric fingerprint reader can be used. In addition to that, a barcode CCD scanner can be connected as a second reader for recording barcoded information from production documents.

As our PC terminals do not require fans or ventilation slots, they are pleasantly quiet and can be used in office, entrance and production areas. In addition, the maintenance costs of fans that are prone to failure are reduced. Contamination and moisture, even under rough conditions of use, no longer enter the terminal interior through a fan.

The sturdy glass-fiber reinforced housing can handle light impacts, which in a metal housing would result in deformation and, accordingly, gas leaks.

Configure your individual multi-functional terminal according to your requirements!
The advantages of mobile data collection for you are very clear: Implementation of company-wide solutions, transparency and up-to-date data and not least time saving and reduction in costs.
Mobile data collection – optimize your business processes

Have you ever thought about optimizing other business processes by using a mobile data collection? Mobile data collection directly at the site at which they are produced? Use this method to obtain current data such as working hours, project times or jobs. Take advantage of electronic transmission, processing and analysis in «real time» on your EDP system.

Come to us and find your mobile solution! We offer you tried-and-tested applications for time and attendance, shop floor data collection and access control.

Data collection is done on a mobile phone or PDA. Operation is easy through compatibility in the sequence with our terminals, as is the problem-free integration into the software applications of the partners.

In general, your employees collect the bookings online, which are then transmitted directly to the application server by a mobile device via WLAN, GPRS, UMTS or a docking station. At the same time, updated data can be sent back and saved. If the network is not available, the collected data will be stored in a buffer memory and then adjusted and updated when the network is available again.

There is a solution for each field:

**B-Net mobile HR**
Start and end of the business-related activities or absences are booked on the mobile device directly on site. The recording of IN and OUT bookings, bookings with an additional reason such as a medical consultation, vacation or flextime is identical to that at the terminal.

**B-Net mobile PP**
Offers collection of all relevant shop floor data directly on site. They include start/end of job, piece quantities, cost centers, storage location, inventory and quality data as typical SFDC segments. The collection processes can be parameterized individually on a PDA. The equipment of the PDA with barcode CCD scanner and RFID reader enable it to be linked into integrated SFDC sequences.

**B-Net mobile AC**
Typically used for access control of external staff on your factory premises. A PDA with integrated RFID reader will read the access authorization from a badge, although input of a PIN is also used in practice, and compare the information with the saved personal data. The display immediately shows visually the decision authorized or unauthorized.
We offer you an optimum solution:
No matter how different the fields of application and your security needs may be right now, we will offer you your tailor-made security solution now and in the future!
Access control —
to let you know «who-when-where»

Who has access where, when, and for how long? The answer to this question must lead you to an integrated solution to access control in your company. Assign a defined group of persons access authorization with time restrictions for certain buildings, rooms or other areas and play it safe.

For the implementation of your security solution, Kaba offers you a broad product portfolio. At the center are access control managers, terminals and components of the B-web and B-Net terminal series and the B-COMM communication solution. All products can be intelligently combined independently and expanded in line with their solution. Our product range is supplemented by mechatronic locking systems, digital door components and pedestrian flow control systems.

Moreover information technology and security technology continue to grow further together. This strongly affects access control. Thus, Power over Ethernet (PoE) is clearly developing to a standard for the installation of security solutions. In PoE power supply takes place together with data transmission via the standard Ethernet wiring. The benefit is huge: This new installation concept offers for the first time a clear separation of the network service provider and the in-house technicians within the IT structures.

Further market trends Kaba is committed to:

> Control of room- and time-dependent access to buildings and rooms and access to networks and to EDP using just one RFID medium.
> Linking your online access control components to those of the stand-alone access control in a virtual network to form a security system. Simple, secure and low-cost.
> Use of biometrics in access control. Better security, convenience, no forgotten badges, unique identification and no more misuse are just some of the advantages.
> Access control considerations under organizational and security aspects.
> Integration of access control management systems in an ERP solution to give a company-wide overall solution.
Access control managers – intelligent, autonomous and universal

The Kaba access manager 92 00, B-Net 92 50 and B-Net 92 90 meet all requirements of modern security concepts.
Select which control you want to use according to the requirements of your security solution.

There are a number of performance characteristics that distinguish all access controls. Thanks to their own decision-making logic, they have the autonomy required for the particular application.

For control and monitoring functions, the controls have several digital inputs and outputs, whose functions can be assigned and allocated variably. Thus, there are functions for simply opening and monitoring doors, the control of elevators and pedestrian flow control systems or for connecting alarm systems.

As for the required memory capacity for master records and bookings, the access control will grow along with the requirements; simply select the next larger memory configuration.

For the depiction of complex control functions, for instance in alarm and door management, the AVISO macro-programming language is available for its implementation. Our know-how acquired over many years has created a library of AVISO routines, whose special solutions could also be of interest to you.

The functional reliability of the access control manager, for example in case of malfunctions in the electricity network, guarantees data retention by means of batteries, even though you can, of course, also use an uninterruptible power supply (UPS) as preventive measure.

Encryption of the data transfer between the access control manager and the application software is another security option you can choose.

All controls are always installed and operated within the secured indoor area. This is secure, and to be on the safe side, the tamper output will report an authorized opening of the housing.

The exchange of data between the connected online readers and the respective control is done via a secure RS-485 link.

The access control managers mentioned can be used to combine the entire product portfolio of the Kaba Group specialized in security in an integrated solution for access control.
CONFIGURATION EXAMPLE – THIS IS HOW YOU CAN INTEGRATE ACCESS CONTROL MANAGERS INTO YOUR SYSTEM

- Host
- Kaba desktop reader 9108
- Access Control B-Net 92 90
- Subterminal B-Net 91 04
- Subterminal B-Net 91 05 FP
- Kaba access manager 92 00
- Kaba remote reader 91 15
- Kaba registration unit 90 01
- Kaba registration unit 90 02
- Kaba registration unit 90 01
- Kaba remote reader 91 15
- Kaba compact reader 91 10
- Kaba compact reader 91 15
- Kaba remote reader 91 15
- Kaba registration unit 90 02
- Kaba compact reader 91 10

An RFID medium for all applications
What distinguishes the controls?
Kaba access manager 92 00

Depending on the complexity of the access system and the task at hand, different access control managers are available. You then select a suitable access manager according to your security requirements.

Kaba access manager 92 00
Thanks to its own decision-making logic and local storage of data, the Kaba access manager 92 00 has the autonomy required in access control. The flexible basic conception allows all versions, from the efficient and slim 1-door-solution that captures the badge directly by means of a registration unit connected to the control unit to the area control with up to 10 doors. For control and monitoring functions, there is a flexible number of digital inputs and outputs, whose functions can be variably assigned.

Flexible standard functions are available for the depiction of security functions, for example in alarm and door management. Thanks to our know-how acquired over many years, the access manager has a complete library of access-specific applications. For instance, arming alarm systems via an access reader or the random selection of persons for a due security review on entering or leaving the company premises.
What distinguishes the controls?
B-Net 92 50 and B-Net 92 90

We have divided our access control managers on the basis of their different functionalities into B-Net 92 50 and B-Net 92 90. Select the access manager you want to use according to the requirements of your security solution.

**B-Net 92 50**
The B-Net 92 50 has its own decision-making logic, checks and decides autonomously whether access is granted or not. The functions of the compact control unit, which is especially interesting for small access control solutions, can be extended by AVISO routines. B-Net 92 50 manages and controls up to 4 doors. You can implement any type of control function for door management and door monitoring functions via the digital inputs and outputs. Fully compatible with Bedanet 92 90, they are complementary to each other when applied in an access system.

**B-Net 92 90**
The access control manager B-Net 92 90 meets all the requirements of modern concepts of access control. This ranges from simple access control to the protection of complex and highly sensitive company areas. The B-Net 92 90 takes over the entire management in order to open doors and turnstiles, control escape and rescue routes and alert external security organizations.

For control and monitoring functions, the B-Net 92 90 offers you 18 digital inputs and 16 outputs, whose functions can be assigned variably. We deliver the B-Net 92 90 to you as a ready-to-install wall model or in the 19” rack variation for installation in IT cabinets.
Registration Units and subterminals

The implementation of an access control system makes it necessary to collect current information at each access point indoors and outdoors, process it and grant access to authorized persons. To this end, we offer you a selection of registration units and subterminals, whose features vary depending on the requirement of their intended use. As a common feature, they support the RFID methods LEGIC and MIFARE, but alternatively a biometric solution for identifying employees can also be used. They are all working in on-line mode and transmit the collected information to the connected access control or from there to the access control system, which will make the decision.

**Kaba compact reader 9110**
The Kaba compact reader 9110 can be used universally in every access solution, and therefore also in Kaba system solutions such as B-COMM or CardLink. This reader is characterized by its compact design. All components are integrated into a housing, and installation is done quickly and efficiently supported by the innovative Quickwire™ installation. The ingress protection up to IP54 and the extended temperature range from -25 °C to +70 °C allows indoor and outdoor use. The scratch-resistant surface and the clear design protect your investment even if used intensely and during a long operating period.

A large light icon shows the state of the reader and if the request has been authorized or rejected and thus safely guides the user.

**Kaba remote reader 9115**
The separation between door control and registration unit allows door-side wiring, in which evaluation of the door information and communication with the badge are done in the secured area. This offers maximum protection against manipulation. Kaba remote reader 91 15 makes available all contacts required at the door. The Registration Units are separated via a secure and encrypted coaxial connection and flexibly installed on the selected access point in the area open to the public. To meet all requirements, different Registration Units for connection are available for all applications.

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KABA COMPACT READER 9110  
KABA REMOTE READER 9115
The Kaba registration unit 90 01 offers an ingress protection up to IP54 and an extended temperature range from -25°C to +70°C, thus allowing indoor and outdoor use. The scratch-resistant surface and the clear design protects your investment even if used intensely and over a long operating period. In connection with the Kaba remote reader 91 15, the display of the reader shows easily and securely the state of the reader and if the request has been authorized or rejected and thus safely guides the user.

The Kaba registration unit 90 02 also offers a PIN keypad integrated into the registration unit, which permits flexible use with enhanced security requirements. Here too, the scratch-resistant surface, the wear-resistant keys and the clear design protect your investment even if used heavily and over a long period of time.

The Registration Units are either connected directly to the Kaba access manager 92 00 or, if more than two access points have to be operated, installed separated from the Kaba remote reader 91 15.
Complementary subterminals –
to make your access solution an integrated one

**Subterminal B-Net 91 04**
This reader has been built especially for outdoor use. The electronics is potted in a plastic housing, thus ideally meeting the requirement of ingress protection IP66. A further advantage is its small size, allowing it to be installed on any door frame. It is operated acoustically and via a LED. Green signals access, while denied access is signaled by a red flashing LED.

**Subterminal B-Net 91 05 FP**
In this subterminal, the fingerprint is used as a biometric feature for identifying the employees. This allows you to increase the security of the access system and combine it with your badge organization when using the verification solution.

If the employee does not have a legible fingerprint, an alternative identification is possible by means of an RFID medium if the subterminal is equipped with an RFID reader.

In combination with an access manager the subterminal is connected to and the B-COMM integration platform, we offer you the B-Net 91 05 FP with biometric recording as an identification and verification solution.

A fingerprint - also referred to as template - is recorded once and saved as reference in the biometric module of the B-Net 91 05 FP. It is essential to save it in the module, to allow quick comparison of the scanned with the saved finger template with a large number of saved persons. In identification, the comparison (1:n) of a scanned fingerprint is done with all reference templates stored in the biometric module. If the fingerprint and the saved reference template match, the employee has been legally identified - i.e., entirely badge-free.

In verification, the finger template of the employee is stored on an RFID medium. The medium is read by the B-Net 91 05 FP and compared with the currently scanned finger template. If both are the same, identity has been established.

B-COMM distributes all templates to all connected terminals and manages them. Thus, all your employees can make use of the advantages of biometrics even from different sites.
Converter B-Net 90 10

Readers equipped with a Wiegand interface or other reading methods not managed in the standard are integrated into a Kaba security system via B-Net 90 10. The badge format to be read can be simply adapted via parameterization. The B-Net 90 10 works as converter and interprets the data flow between the different protocol reading methods in the system. Additional functions enable door opening and door monitoring or the connection of other foreign devices.

Kaba desktop reader 91 08 – for the coding of RFID data carriers

The Kaba desktop reader 91 08 was designed for reading and writing on RFID data carriers in the form of a card or key, which are used in data collection or access control. As a standard feature, the reader is equipped with an RFID system. It is possible to read and write LEGIC or MIFARE media that work according to the ISO 14443 A or 15693 standard and the LEGIC Prime/Advant or MIFARE Classic/DESFire specifications.

The Desktop Reader is connected to a PC via its USB interface. The Kaba desktop reader 91 08 is automatically recognized by Windows; the included certified driver is installed and the desktop reader is thus ready for use in a few minutes. In combination with the «Media Manager» software tool, the Desktop Reader ensures greater security of the Mifare media. The Kaba desktop reader 91 08 impresses with its elegant design in a black housing with silver edge – suitable for any desk.
Kaba CardLink connects wired and unwired access controls to one another via a virtual network. All desired doors are equipped with an electronic locking cylinder, which can only be opened if the appropriate authorization is available. The time-limited access authorizations are written simply and quickly via a terminal to badges, keys or key chains equipped with RFID technology. This online terminal is also in charge of simple updating of the authorization profiles of the employee.

Lost or unauthorized media are locked via the validation mechanism, and the doors remain locked to unauthorized persons. CardLink increases security without the need to connect doors to the access system.

Using the integration platform B-COMM, CardLink can be integrated into any application, thus expanding your current Kaba online system by our reliable stand-alone components. CardLink requires no wiring effort and can be installed safely and easily. It can be used to extend existing access systems in a flexible fashion or extend them to unwired buildings.

Our standalone components

- Kaba digital cylinders for easily integrating doors into access systems
- Kaba c-lever and Kaba c-lever compact, electronic fittings for all commercially available locks
- Kaba reader, for activating different locking components

Our standalone components

- Kaba digital cylinder
- Kaba c-lever compact
- Communication software
- USB
- Ethernet

CardLink™ components – make use of a virtual network
Collection media – Are you also opting for RFID?

Most companies have already implemented, just as your own company, a medium for data collection. This is usually a badge used to book times, register jobs or obtain access authorizations. If you are thinking about a new data collection, the question arises whether you should hang on to your existing media or whether, due to new requirements and sequences, it’s not a good idea to use the promising RFID technology (RFID means Radio Frequency Identification).

The leading RFID systems are LEGIC, MIFARE and HID, the ones we prefer. The centerpiece is an RFID chip on which information can be read and written contact-free. Its functional principle is based on the contact-free transmission of data between a data carrier with RFID chip and a read/write unit, for instance built into a terminal. When the chip is placed in the electromagnetic field of the terminal’s reader, the chip receives the necessary energy for battery-free information exchange on a standardized industrial frequency.

In your company, too, an RFID chip is ideally suitable for integrating the previously autonomous areas. For example, you can connect access control, locking technology, cafeteria data collection or other cash functions on a single authorization medium. This becomes possible by segmenting the RFID chip into organizational areas, each of which is reserved to one particular application.

In practice, the incorporation of RFID chips into badges, keys, and key chains has given excellent results.
For individual use

B-COMM will be configured according to your individual requirements and thus adapted optimally to your IT structures. After integration into your software application, it will guarantee smooth data exchange between the collection device and the processing system.
The new integration platform B-COMM has been developed for integrating access control, time and attendance and shop floor data collection into the IT structures of your company. Due to its modular design, B-COMM can be configured in accordance with your specific requirements for the desired solution. In practical application, it manages the complete communication between the collection terminals and the software applications, independently of the computer or operating system platforms.

B-COMM® –
the integration platform for your solution

The integration platform B-COMM convinces every user with its performance features:
> B-COMM works independently of operating systems and hardware platforms.
> B-COMM allows convenient installation and setup on your system.
> B-COMM offers a graphic display of the management and configuration of the overall system. This includes clients, users and jobs, communication channels, network adapters and terminals.
> B-COMM guarantees secure data exchange with the terminals, which can be additionally encrypted.
> B-COMM offers high investment protection, as all current terminal series can be configured and are compatible with one another.
> B-COMM visualizes the status of the individual communication channels and all terminals of the collection system at any time.
> B-COMM has multi-client capability for uniform work flow of different companies, for example within a group.
> B-COMM offers flexible user definition with different rights for the administration of the system.
> B-COMM is easy to use through a uniform graphic user interface.
> By using UNICODE, B-COMM is prepared for processing all internationally known fonts and can thus be used worldwide.
> Integration of the programming module allows B-COMM to create AVISO routines for special customer requirements.
> Optionally, B-COMM allows new technologies to be used. Thus, for example, the CardLink module makes it possible to link components of the online and standalone access control.
> This guarantees higher security at lower investment.
> B-COMM integrates biometric data collection and supports the setup of the terminal functions in the collection system.
> B-COMM supports the set-up and the replacement for the terminal series B-web 93 00 and B-web 95 00.
Different operating systems, particularities of the different industries, complex pay agreements, integrated access solutions or different production sequences require specialization. This has made Kaba realize early on that individual client requirements demand special solutions.

We concentrate on our strengths, namely the development and manufacture of terminals and powerful communication solutions. This has made us what we are now - the technology leader on the market. We call this cooperation the partner concept, in which Kaba is the link between you, the end customer, and the software partner.

We provide our partners with powerful integration platforms for all operating systems, which allow them to integrate all terminals into the particular software without any problems.

By providing these strategic partnerships, we offer you the advantage of making use of an individual solution from the very start.

The partner concept

We work together with leading software and system integrators - our partners - to offer you always the right solution for your requirements. They are your guarantee for practice-oriented software applications for your sector and your specialist for your IT structures.
Services — the basis of partnership

It is our goal to establish a long-term partnership with you by providing a comprehensive package of services:

Organizational consulting
We support you during the development of a solution according to your individual requirements. We provide information on which terminals and software solutions to use for the solution you desire.

Project planning
We offer you the know-how that is needed to implement an extensive or border-crossing project.

This starts with an on-site inspection, the recommendation of IT and organizational structures, the planning of project progresses and the implementation of your project on schedule.

Installation and start-up
Our engineers and our partner’s specialists install the entire system, hardware and software, in your company and put it into operation.

Your employees are informed about background and operations and trained. After the test runs have been successfully completed, the total system is handed over to you.

Training
We offer comprehensive training about the technology and use of terminals and communication components.

Users are trained on the applications by experienced, qualified partner coaches.

Maintenance
We have our own global service organization in Germany for the maintenance of your installations. Our well-trained engineers are available on site at guaranteed response times.

A spare part express and repair service ensures the minimization of system downtimes.

In Europe and overseas, we guarantee customer support provided by our subsidiaries and service partners.

Hotline service
We also offer a technical hotline with skilled personnel, who will answer your questions about our entire product range.

Services Overview of the Kaba Workforce Management