HARTING Ha-VIS RFID System Components
Real-time information and the close synchronization of computer data and real processes play a critical role in process management and process optimization. Ensuring that information precisely maps and concurs with reality is the only way to control processes optimally and reap savings potentials accordingly.

One important prerequisite for guaranteeing that data and processes are synchronized is an intelligent infrastructure that makes data transparent and available throughout a company in order to achieve the maximum savings potentials.

RFID offers you the full potential to create intelligent infrastructures: benefit from the simultaneous identification of up to several hundred objects – without the need for the direct line of sight as required by barcode solutions. The collected data are immediately ready for further processing throughout the company.

Moreover, a transponder can be used to store information directly on the product at the same time it is identified. This means that these data are also always available wherever the product may happen to be located.

HARTING offers smart infrastructure solutions based on optimally coordinated components from a single source. These solutions enable the reliable control and steering of production and business processes, thereby resulting in lower costs.

The HARTING RFID Reader and components have been designed for harsh industrial applications. Deployed in the transportation, machinery and energy markets, HARTING RFID components guarantee secure and reliable information processing – also under the most challenging environmental conditions.
HARTING Smart Infrastructure Solutions

Real time information and the close synchronization of the virtual data world and the real process world play a crucial role in process management and process optimization. Information constitutes the basis of decisions.

Missing information is detrimental here, while information that is present in the company but that remains hidden due to incompatible and impermeable infrastructures is even more damaging as this costs money without being able to return the full benefits.

Material tracking
Ha-VIS RFID SL 89 (MT)
- > 4 m range
- Functions when integrated into metal
- Low space requirements

Networking of the automation application
Ha-VIS FTS 3100-A
- Ethernet Switch with Fast Track Switching technology
- Determinism with Standard Ethernet
- Preference given to automation data

Flexible use in the industrial environment
Ha-VIS RF-R500 RFID reader
- Use in switch cabinet on DIN rail
- Installation directly on cross arms thanks to rugged aluminum housing
- Up to IP 64 with protection cap, otherwise IP 53

Rugged Ha-VIS RF-ANT-LR10 UHF RFID antenna with very short read range
- Protection class IP 67
- Optimized for near-field applications
- Identification of tools in machines or ensuring the correct positioning of objects, for example

Tool management / maintenance
Ha-VIS RFID VT 86 (HT)
- > 3.5 m range on metal in connection with highly compact footprint
- Variable installation possibilities
- Especially resistant to heat, chemicals, such as during autoclavng

Ha-VIS RFID CS/CF 89 (NT)
- Also readable in damp environments
- Rugged housing
- EPC C1 Gen2 compatibility
- Protection class IP 69K
- Expanded memory

Incoming goods inspection via RFID gate
Extremely rugged outdoor antenna for Ha-VIS RF-ANT-WR80-30 for gate applications
- Ruggedized housing
- 30° / 70° aperture angle
- Protection class IP 65

Maintenance management
Cyclic maintenance of safety-related equipment is automated with modern RFID transponders

Container management
Selective identification of containers with Ha-VIS RFID antennas, especially in harsh industrial environments.

Ha-VIS RF-ANT-WR30
- High read range
- Flat, compact design
- Protection class IP 65
Real time information and the close synchronization of the virtual data world and the real process world play a crucial role in process management and process optimization. Information constitutes the basis of decisions. Missing information is detrimental here, while information that is present in the company but that remains hidden due to incompatible and impermeable infrastructures is even more damaging as this costs money without being able to return the full benefits.

**RFID out of the Box-Lösung Complete RFID system**
- incl. RFID reader, switch, protection against overvoltage, and power supply
- Protection class IP65
- Customer specific configurations possible
- Robust housing

**Material tracking**
- Ha-VIS RFID SL 89 (MT)
  - > 4-m range
  - Functions when integrated into metal
  - Low space requirements

**Networking of the automation application**
- Ha-VIS FTS 3100-A
  - Ethernet Switch with Fast Track Switching technology
  - Determinism with Standard Ethernet
  - Preference given to automation data

**RFID out of the Box-Lösung Complete RFID system**
- incl. RFID reader, switch, protection against overvoltage, and power supply
- Protection class IP65
- Customer specific configurations possible
- Robust housing

**Localisation of transport means for automatic booking processes**
- Ha-VIS RFID CT 89 (NT)
  - > 4,5 m range
  - Function in and on precast concrete units
  - Development for the construction trade

**Incoming goods inspection via RFID gate**
- Extremely rugged outdoor antenna for Ha-VIS RF-ANT-WR80-30 for gate applications
  - Ruggedized housing
  - 30°/70° aperture angle
  - Protection class IP 65

**Finished part monitoring in building management**
- Monitoring of static characteristics in prefabricated building parts using RFID technology

**Automatic process mapping using RFID reader**
- Ha-VIS RF-R500
  - Read range to 16 m
  - 4 antennas can be connected
  - Up to IP 64 with protection cap

**RFID out of the Box-Lösung Complete RFID system**
- incl. RFID reader, switch, protection against overvoltage, and power supply
- Protection class IP65
- Customer specific configurations possible
- Robust housing

**Maintenance management**
- Cyclic maintenance of safety-related equipment is automated with modern RFID transponders

**Container management**
- Selective identification of containers with Ha-VIS RFID antennas, especially in harsh industrial environments.
- Ha-VIS RF-ANT-WR30
  - High read range
  - Flat, compact design
  - Protection class IP 65
RFID Products & Accessories

**Ha-VIS UHF long range RFID Reader RF-R500**

**Features**
- Suitable for harsh industrial environments
- Very high read range of up to 16 m
- Power over Ethernet capability (PoE) (RF-R500-p)
- 4 antennas can be connected
- Up to 4 W transmitter power (RF-R500-p), otherwise 2 W (RF-R500-c)
- Up to IP 64 with protection cap (optional)
- Interfaces (Ethernet, USB, RS 232, RS 485)
- Fast readout of >150 transponders
- 860 – 960 MHz
- Profinet / Profinet: optional via gateway
- PLC connection – templates of function blocks on request
- Web interface

**Identification**

<table>
<thead>
<tr>
<th>Part.no.</th>
<th>Identification</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 91 104 1103</td>
<td>RF-R500-c-EU</td>
</tr>
<tr>
<td>20 91 104 1104</td>
<td>RF-R500-c-US</td>
</tr>
<tr>
<td>20 91 104 1101</td>
<td>RF-R500-p-EU</td>
</tr>
<tr>
<td>20 91 104 1102</td>
<td>RF-R500-p-US</td>
</tr>
</tbody>
</table>

**Ha-VIS UHF mid range Reader RF-R200**

**Features**
- External antenna (max. read range up to 2m)
- Internal antenna (max. read range up to 30cm)
- 500mW transmission power
- Power over Ethernet
- SMA connector
- Automatic reporting of tags (notification mode)

**Identification**

<table>
<thead>
<tr>
<th>Part.no.</th>
<th>Identification</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 91 106 1101</td>
<td>Ha-VIS RF-R200 (expected availability 2nd Q. 2013)</td>
</tr>
</tbody>
</table>

**Accessories**

<table>
<thead>
<tr>
<th>Part.no.</th>
<th>Identification</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 93 102 0202</td>
<td>DIN rail mounting kit RF-R200</td>
</tr>
<tr>
<td>20 93 102 0203</td>
<td>Mounting Kit RF-R200</td>
</tr>
<tr>
<td>20 93 310 0203</td>
<td>Desktop power supply for RF-R200 (EU)</td>
</tr>
</tbody>
</table>

**Ha-VIS RFID Box**

**Features**
- Completely installed RFID system in cabinet
- Tested and ready for connection
- Modular system
- Customer specific configurations possible
- 2 mm VA steel
- Railway norms
- Protection class IP65

**Identification**

<table>
<thead>
<tr>
<th>Part.no.</th>
<th>Identification</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 91 421 1001</td>
<td>Ha-VIS RFID Box (RF-R500-p-EU, eCon 2050-A)</td>
</tr>
<tr>
<td>20 91 411 1001</td>
<td>Ha-VIS RFID Box (RF-R500-c-EU, eCon 2050-A) (both variants expected availability Q1 / 2013)</td>
</tr>
</tbody>
</table>
### Ha-VIS UHF mobile Reader RF-M3000

**Features**
- Read range up to 2 m
- IP 65 protection
- Several drops on concrete from 1.8 m (handheld switched on incl. WiFi, Barcode scanner, imager)
- WiFi
- 1 GB Flash
- 3.6" TFT Display

<table>
<thead>
<tr>
<th>Identification</th>
<th>Part. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>RFID Handheld RF-M3000</td>
<td>20 91 211 1011</td>
</tr>
<tr>
<td>RFID Handheld RF-M3001 1D Laser Scanner</td>
<td>20 91 211 1111</td>
</tr>
<tr>
<td>RFID Handheld RF-M3002 2D Imager</td>
<td>20 91 211 1311</td>
</tr>
<tr>
<td>Mobile reading devices with higher read ranges on request</td>
<td></td>
</tr>
</tbody>
</table>

**Accessories**
- Ha-VIS RF-M3000 battery 4400 mAh
- Ha-VIS RF-M3000 Stylus 5 Pack (spare pen for touch screen)
- Power Supply AC universal 5 V / 3 A
- RF-M3000 Docking Station Desktop
- RF-M3000 Docking Station Quad (4-fold incl. RJ45)
- RF-M3000 Cradle Vehicle Powered 12 V
- RF-M3000 Ram mounting system
- RF-M3000 Plastic pistol grip
- RF-M3000 Soft holster kit

### DIN Rail mounting kit

**Features**
- Board incl. screws for installing the Ha-VIS RF-R500 on DIN rail

<table>
<thead>
<tr>
<th>Identification</th>
<th>Part. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIN rail mounting kit</td>
<td>20 93 102 0201</td>
</tr>
</tbody>
</table>

### Ha-VIS RFID reader protection cap

**Features**
- Increased protection class IP 64
- Up to 8 PG lead-throughs
- Simple and reliable installation on Ha-VIS RF-R500

<table>
<thead>
<tr>
<th>Identification</th>
<th>Part. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ha-VIS Protection cap RF-R500</td>
<td>20 93 901 0101</td>
</tr>
</tbody>
</table>
## Ha-VIS RFID UHF wide range antenna

<table>
<thead>
<tr>
<th>Features</th>
<th>Identification</th>
<th>Part. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compact design</td>
<td>RF-ANT-WR30-EU</td>
<td>20 93 201 0102</td>
</tr>
<tr>
<td>High read range</td>
<td>RF-ANT-WR30-US</td>
<td>20 93 201 0103</td>
</tr>
<tr>
<td>Suitable for industrial environment</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Optimized for portal applications</td>
<td></td>
<td></td>
</tr>
<tr>
<td>69° aperture angle</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Antenna gain 8.5 dBi</td>
<td></td>
<td></td>
</tr>
<tr>
<td>High IP 65 protection</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Suitable for outside areas</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TNC socket</td>
<td></td>
<td></td>
</tr>
<tr>
<td>865 - 870 MHz (EU) or 902 - 928 MHz (US)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Ha-VIS RFID UHF ruggedized wide range antenna, 30° aperture angle

<table>
<thead>
<tr>
<th>Features</th>
<th>Identification</th>
<th>Part. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Different aperture angles for azimuth and elevation planes (30° / 70°)</td>
<td>RF-ANT-WR80-30-EU</td>
<td>20 93 201 0203</td>
</tr>
<tr>
<td>Ruggedized housing</td>
<td>RF-ANT-WR80-30-US</td>
<td>20 93 201 0204</td>
</tr>
<tr>
<td>Compact design</td>
<td></td>
<td></td>
</tr>
<tr>
<td>High read range</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Antenna gain 11 dBi</td>
<td></td>
<td></td>
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<tr>
<td>Suitable for industrial environment</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Optimized for portal applications</td>
<td></td>
<td></td>
</tr>
<tr>
<td>High IP 65 protection</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Suitable for outside areas</td>
<td></td>
<td></td>
</tr>
<tr>
<td>N socket</td>
<td></td>
<td></td>
</tr>
<tr>
<td>865 - 870 MHz (EU) or 902 - 928 MHz (US)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Ha-VIS RFID UHF mid range antenna

**Features**
- Very compact design
- Medium read range (0.2 m - 2 m)
- Suitable for industrial environment with near- and far-field applications
- 100° aperture angle
- Antenna gain 4 dBi
- High IP 67 protection
- Suitable for outside areas
- TNC socket
- 865 - 870 MHz (EU) or 902 - 928 MHz (US)

**Identification**
- RF-ANT-MR20-EU
- RF-ANT-MR20-US

<table>
<thead>
<tr>
<th>Part. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 93 201 0301</td>
</tr>
<tr>
<td>20 93 201 0302</td>
</tr>
</tbody>
</table>

Ha-VIS RFID UHF short mid range antenna

**Features**
- Very compact design
- Medium read range (0.2 m - 1 m)
- Worldwide applicable (860 - 930 MHz)
- 100° aperture angle
- High IP 67 protection
- Max. input power 1 W
- Ideally suitable for metallic environments because of -12 dBi at 866 MHz
- TNC socket

**Identification**
- RF-ANT-sMR20
  (expected availability Q2 / 2013)

<table>
<thead>
<tr>
<th>Part. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 93 201 0304</td>
</tr>
</tbody>
</table>

Ha-VIS RFID UHF ultra-low range antenna

**Features**
- Minimal size
- Extremely high spatial selectivity
- Suitable for industrial environment
- Optimized for near-field applications (< 5 cm)
- High IP 67 protection
- Suitable for outside areas
- TNC socket
- Worldwide applicable (860-930 MHz)

**Identification**
- RF-ANT-LR10

<table>
<thead>
<tr>
<th>Part. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 93 201 0303</td>
</tr>
</tbody>
</table>
Ha-VIS RFID wall/mast antenna mounting kit

Features
- Very rugged
- Can be aligned in two directions
- Wide adjustment angle

Identification | Part. no.
--- | ---
RF-MOUNT-ANT-A (for RF-ANT-WR30) | 20 93 102 0103

Ha-VIS RFID mast antenna mounting kit

Features
- Diameter of post 25 - 76 mm
- Turnable by two links
- Precision of angle adjustment 2°
- Max. weight to carry 20 kg

Identification | Part. no.
--- | ---
RF-MOUNT-ANT-C (for RF-ANT-WR30) | 20 93 102 0105

Ha-VIS RFID mast mounting

Features
- Very rugged
- Can be tipped
- Stainless steel
- Necessary pipe (diameter 50 - 115 mm) not included

Identification | Part. no.
--- | ---
RF-Mount-ANT-B (for RF-ANT-WR80-30) | 20 93 102 0104
Ha-VIS RFID standard antenna cable

Features
- 3 m standard cable
- TNC - SMA
- Attenuation 68 dB/100 m (@800 MHz)

<table>
<thead>
<tr>
<th>Identification</th>
<th>Part. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ha-VIS Coax SMA-TNC, RG58, 3 m</td>
<td>20 93 204 0101</td>
</tr>
</tbody>
</table>

Ha-VIS RFID low loss antenna cable

Features
- 3 m and 10 m low loss cable
- Attenuation 28 dB / 100 m (@800 MHz)
- Outer diameter 5.4 mm
- Left side: SMA connector
- Right side: TNC or N connector

<table>
<thead>
<tr>
<th>Identification</th>
<th>Part. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ha-VIS Coax SMA-TNC, LL 240 flex, 3 m</td>
<td>20 93 204 0102</td>
</tr>
<tr>
<td>Ha-VIS Coax SMA-TNC, LL 240 flex, 10 m</td>
<td>20 93 204 0103</td>
</tr>
<tr>
<td>Ha-VIS Coax SMA-N, LL 240 flex, 3 m</td>
<td>20 93 204 0104</td>
</tr>
<tr>
<td>Ha-VIS Coax SMA-N, LL 240 flex, 10 m</td>
<td>20 93 204 0105</td>
</tr>
</tbody>
</table>

Ha-VIS RFID heavy duty low loss antenna cable

Features
- 3 m and 10 m low loss cable
- Suitable for harsh environments
- Attenuation 22 dB / 100 m (@800 MHz)
- Outer diameter 10.3 mm
- TNC - N

<table>
<thead>
<tr>
<th>Identification</th>
<th>Part. no.</th>
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</thead>
<tbody>
<tr>
<td>Ha-VIS Coax TNC-N, RG 213, 3 m</td>
<td>20 93 204 0106</td>
</tr>
<tr>
<td>Ha-VIS Coax TNC-N, RG 213, 10 m</td>
<td>20 93 204 0107</td>
</tr>
</tbody>
</table>
### Ha-VIS RFID SMA TNC antenna cable adapter

**Features**
- Adaptor for connecting RG213 cable to reader

<table>
<thead>
<tr>
<th>Identification</th>
<th>Part. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adapter TNC-SMA</td>
<td>20 93 204 0301</td>
</tr>
</tbody>
</table>

### Ha-VIS RFID PT 86 (HT)

**Features**
- Functions on metal
- Rugged, chemical resistant housing
- EPC C1 Gen2 compatibility
- Protection class IP 69K
- Expanded memory

<table>
<thead>
<tr>
<th>Identification</th>
<th>Part. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ha-VIS RFID PT 86 (HT) 10 units</td>
<td>20 92 641 0101</td>
</tr>
<tr>
<td>Ha-VIS RFID PT 86 (HT) 50 units</td>
<td>20 92 641 0102</td>
</tr>
</tbody>
</table>

### Ha-VIS RFID VT 86 (HT)

**Features**
- Functions on metal
- Rugged, chemical resistant housing
- EPC C1 Gen2 compatibility
- Protection class IP 69K
- Expanded memory
- Flexible mounting

<table>
<thead>
<tr>
<th>Identification</th>
<th>Part. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ha-VIS RFID VT 86 (HT) 10 units</td>
<td>20 92 641 0201</td>
</tr>
<tr>
<td>Ha-VIS RFID VT 86 (HT) 50 units</td>
<td>20 92 641 0202</td>
</tr>
<tr>
<td>Ha-VIS RFID VT868 (HT) 0.43k (EU, 0.43 kByte memory) (expected availability Q2 / 2013)</td>
<td>on request</td>
</tr>
<tr>
<td>Ha-VIS RFID VT92 (HT) 0.43k (US, Asia, 0.43 kByte memory) (expected availability Q2 / 2013)</td>
<td>on request</td>
</tr>
</tbody>
</table>
### Ha-VIS SL89 Set

**Features**
- Extremely high level of mechanical protection
- Protection class IP 69K
- EPC C1 Gen2 compatibility
- Expanded memory
- Customer specific shapes of metal pieces for individual customer requests

<table>
<thead>
<tr>
<th>Identification</th>
<th>Part. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ha-VIS SL89 Set</td>
<td>On definition of metal piece</td>
</tr>
</tbody>
</table>

### Ha-VIS RFID CT/CF/CS 89 (NT) product family

**Features**
- Can also be read in damp environments
- Rugged housing
- EPC C1 Gen2 compatibility
- Protection class IP 69K
- Expanded memory

<table>
<thead>
<tr>
<th>Identification</th>
<th>Part. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ha-VIS RFID CT89 (NT) 10 units</td>
<td>20 92 641 0301</td>
</tr>
<tr>
<td>Ha-VIS RFID CT89 (NT) 50 units</td>
<td>20 92 641 0302</td>
</tr>
<tr>
<td>Ha-VIS RFID CF89 (NT) 10 units</td>
<td>20 92 641 0401</td>
</tr>
<tr>
<td>Ha-VIS RFID CF89 (NT) 50 units</td>
<td>20 92 641 0402</td>
</tr>
<tr>
<td>Ha-VIS RFID CS89 (NT) 10 units</td>
<td>20 92 641 0501</td>
</tr>
<tr>
<td>Ha-VIS RFID CS89 (NT) 50 units</td>
<td>20 92 641 0502</td>
</tr>
</tbody>
</table>

### Ha-VIS RFID Transponder FT 89

**Features**
- For non-conductive surfaces
- Extremly mechanical robust
- Barcode and company logo possible
- Flexible mounting on different surfaces
- Adhesive mounting

<table>
<thead>
<tr>
<th>Identification</th>
<th>Part. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ha-VIS RFID FT 89 passiv Tr. 50 units</td>
<td>20 92 641 0702</td>
</tr>
<tr>
<td>Ha-VIS RFID FT 89 passiv Tr. 500 units</td>
<td>20 92 641 0703</td>
</tr>
</tbody>
</table>
Ha-VIS Middleware

Features
- The bridge between RFID readers and company software
- Easy integration of HARTING RFID Reader
- Filtering, grouping and aggregation based on various tag information
- Application flow triggered by manual, digital IO or scheduled events
- Report of cumulated data in standardized or customized formats
- Central RFID Reader management
- Advanced reading, writing, locking and muting of RFID transponders
- Conform to EPCglobal® ALE 1.1 standard

<table>
<thead>
<tr>
<th>Identification</th>
<th>Part. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ha-VIS Middleware</td>
<td>20 16 210 1110</td>
</tr>
<tr>
<td>Incl. XML Subscriber and Connector for one Ha-VIS RF-R500 RFID Reader</td>
<td></td>
</tr>
<tr>
<td>Subscriber (software side)</td>
<td>20 16 220 3110</td>
</tr>
<tr>
<td>Easy API</td>
<td>20 16 220 4110</td>
</tr>
<tr>
<td>MySQL Subscriber</td>
<td></td>
</tr>
<tr>
<td>Connector (hardware side)</td>
<td></td>
</tr>
<tr>
<td>Connector for up to 5 RF-R500</td>
<td>20 16 230 1120</td>
</tr>
<tr>
<td>Connector for up to 15 RF-R500</td>
<td>20 16 230 1130</td>
</tr>
<tr>
<td>Connector for up to 25 RF-R500</td>
<td>20 16 230 1140</td>
</tr>
<tr>
<td>Connector for up to 50 RF-R500</td>
<td>20 16 230 1150</td>
</tr>
</tbody>
</table>

Ha-VIS Dashboard

Features
- Centralised management of managed Ethernet devices
- Network monitoring
- Event- and Alarm-Management
- Performance Monitoring
- Administration of complex RFID Reader-Installations

<table>
<thead>
<tr>
<th>Identification</th>
<th>Part. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ha-VIS Dashboard License 64</td>
<td>20 16 111 2110</td>
</tr>
<tr>
<td>Ha-VIS Dashboard License 128</td>
<td>20 16 111 3110</td>
</tr>
<tr>
<td>Ha-VIS Dashboard License 256</td>
<td>20 16 111 4110</td>
</tr>
</tbody>
</table>

ICPN Service

- RFID Proof-of-Concept at the site of customer or in the RFID laboratory
- Configuration service for Ha-VIS RFID Reader and Middleware
- Commissioning at site of customer
- Consulting for RFID systems
- Trainings
- Telephone hotline
- Email support