NFC Mobile

take off to a new horizon

NFC Mobile
Reading machine data made easy

The NFC Mobile expands the possibilities for reading data from unnetworked vending machines at the touch of a button. All RFID readers of the DIVA2 family can be easily read from outside the vending machine via the RFID antenna.
By holding the device in front of the reader antenna, the transmission of data starts in both directions. This includes EVADTS or transaction data, prices, configurations or log files.

By plugging the device into the USB port of your PC, the data is automatically imported into your billing software or stored as files on your computer without manual intervention.

The desired configuration of the device, i.e. what is to be transmitted in the specific case, is conveniently carried out via the Hug-Witschi cloud solution.

Advantages

- Simple operation for all types of data readout and configurations: at the touch of a button and holding it in front of the reader antenna, a wide range of data is automatically synchronized depending on the vending machine, customer or object. Central cloud-based control of data synchronization with the vending machines
- After successful readout, simple transfer of the data to the PC: the free tool *Aggregator* automatically synchronizes the data with the cloud without manual intervention.
- Thanks to the 8GB large data memory in the device, the entire vending machine park can be read out.
- Long power reserve with rechargeable battery (in low power state still one day left)
- Ideal complement to networked vending machines: where networking is not possible, transactions or EVADTS data can be read offline and inserted into the same back office (Networking must then be deactivated)
- Highly secure data transmission from the vending machine to the cloud
- Compatible with all DIVA2 reader systems DeLight, DeLight2, LeX 4xxx, LeX2, MaX NFC
- Future developments: new functions can largely be incorporated by enhancements to the DIVA2 firmware. The NFC Mobile does not need to be replaced.

Features

- Support of the innovative DAS accounting system from Hug-Witschi for EVADTS files: triggering and retrieval of data can be carried out in separate processes.
- Networked vending machines with real-time data can also be read out by the operator (EVADTS).
- Li-po battery chargeable via USB
- Intelligent resumption of communication in the event of interrupted data transmission at the vending machine
- Secure readout with end to end handshake (transactions)
- Compromised password on the NFC route can be replaced on-the-fly without changing the settings in the vending machine.
- LED status display: Readout, authorization, battery status
- Multi-client capability: read data can be automatically transferred to different backend systems
- BLE data link in preparation: New reader generations (LeX2, DeLight2, MaX NFC, Ultralight) with integrated BLE can also be connected via Bluetooth in the future.

P R O D U C T S   D A T A S H E E T

Ordering coordinates:

Art.no.:	D2.20.000.10	D2.20.000.01
Designation:	NFC MobileNFC	Mobile Device
	Handheld for transferring all dataHandheld	without accessories
	with USB cable and strap	

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Billing data

EVADTS according to DAS (Distributed Accounting System, see also AN187).
The following functions are possible:

- Standard function according to EVA standard:
  Triggering (cash cut) and reading out the data
- Fetching data that has been triggered time-controlled, for
  example. When fetching, a settlement is not triggered again
- Triggering of the billing (triggering) by holding the device in
  front of it in the same way as the *Closing Card*: stores the
  billing in the DIVA2 for later readout or starts the transfer to
  the cloud in the case of networked devices.

Use Cases:

1. Standard case: Vending machine operator removes the
   cash and reads out the EVADTS data. The counters are
   reset - the statement contains the totals since the last
   readout.
2. Caterer (without handheld and billing SW) takes the cash from the machine and triggers the billing via
   closing card.
   The operator retrieves the stored data at a later time with the NFC Mobile and delivers the settlement to
   the caterer. This enables an exact control of the cash even if it is not read out at the time of withdrawal.
3. Accurate billing at the end of the month:
   For the first time, billing can be performed as the accountant wishes: at the end of the month.
   The DIVA2 system stores the settlement triggered
   by the timer in the internal memory.
   On occasion (e.g. filling the vending machine) the operator retrieves the data.
4. Withdrawing money from networked vending machines:
   If the vending machine is networked, it makes no sense to read these vending machines with the NFC
   Mobile. However, the merchandiser would have to know which vending machines are to be read and
   which are not.
   Thanks to the individual configuration of the handheld, when money is withdrawn and the vending
   machine is read, only the settlement is triggered (but not transmitted). The data transfer is carried out via
   network, where the data arrives at its destination in a few seconds.
   For the merchandiser, the handling at the vending machine is always the same.

DIVA Abrechnung OP-Nummer 6001

Testprojekt Nr. 1 Hug-Witschi

Abrechnungsnummer 2 vom 16.12.2020 10:45:38 bis 16.12.2020 1(

BARGELDBESTAND			UMSÄT:
Notenstand		190.00	Aufladen
			Umbuche

NOTENBERICHT

Nr.	Notenwert	Anzahl	Summe
0	10.00	2	20.00
1	20.00	1	20.00
2	50.00	1	50.00

Single transactions in XML format for SpiderOffline:

- Automatic readout of transactions where required
- Local storage of the read files for transfer to SpiderOffline
- End 2 End protection: only when all data has been
  processed, the files are deleted in the reader.
- Requires SpiderOffline license (Spider 1, Spider 2) for
  transfer to back office database.
- Transactions and EVADTS readouts can be combined

SPIDEROFFLINE

User ID	Timestamp	Op number	Amount	New balance	Transa
566	2014-04-26T22	21697	-0.44	11.29	
566	2014-04-27T04	21697	-0.44	10.4	
104	2014-04-27T0(	21697	-0.5	3.87	
119	2014-04-27T0(	21697	-0.5	2.72	
827	2014-04-27T0(	21697	-0.44	9.56	
735	2014-04-27T08	21697	-0.5	3.74	
735	2014-04-27T08	21697	-0.5	3.24	
104	2014-04-27T0!	21697	-0.5	3.37	
119	2014-04-27T0!	21697	-0.5	2.22	

PRODUCTS DATASHEET

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Technical data Hardware:

- Micro USB (USB 2.0)
- Li-Polymer battery, rechargeable via USB with PC or conventional charger.
  Power reserve for 100 vending machines or 1 week
- LED indicators: Rt+Gn for status
- Processor: ARM M4
- Memory: Micro SD card 8 GB
- Bluetooth 4.2
- RTC
- Housing plastic black
- Buzzer
- Temperature range: 0 to 70°C, bearing: -40 °to -+85 °C
- Humidity: 95% relative humidity, non-condensing
- Dimensions: 45 x 45 x 20 mm

Scope of delivery

- NFC Mobile Device
- USB cable
- Plastic ribbon

Requirements

- Hardware:
  - NFC: DIVA2 reader with Legic Chipset 4xxx or newer-
  BLE (future): DIVA2 reader with Legic Chipset 6xxx
- DIVA2 Firmware: 9.10 (makalu)

Aggregator

The transfer of the data to the PC and to the device is done with the free tool *Aggregator*.
Configuration of the device by Hug-Witschi in the cloud (www.spicls.com). Report the desired function to our support.

- Download from www.payment-technology.com (registration required)
- Installation on Windows 10 computer
- Activation of the program: Login with username and password. Credentials are provided by Hug-Witschi
- Automatic data synchronization after connecting the NFC Mobile from the device to the PC and vice versa

Further possibilities depending on the software status DIVA2 and aggregator.

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