System PM 100

Managing Cards

Version 1.00

DESIGNA

Contents

Overview of versions

Type of change:	Version	Page:	Name:	Date:
Compilation of this document	0.0	all	Kielmann	20.06.98
Release (ICS)	1.0	all	Kloske	06.08.98
Examples added	1.0	5-6	Kielmann	13.11.98

1 General

All types of cards with reference to a customer, i.e. season parker cards, debit cards and function cards are featured in the submenu **managing cards** in the main menu point **master data**. This mask contains all the information for the corresponding card types. Changes cannot be made in this mask for security reasons. The purpose of this mask is to query current status information for the individual cards. It features debit cards, function cards and season parker cards. The season parker cards are differentiated according to normal season parker cards, Easy Move season parker cards, season parker with credit card and hourly parking with credit card.

2 Example display mask for managing cards (debit card)

```
                        Manage cards
                                            Date [ 1. 1.98]
        car-park-no. [  1]        Car park name [Stadthalle            ]
           Card-No. [   12]         Card type [  4] Debit card

      Customer-no. [     1]     Customer name [Mustermann          ]
     CountCustomer [     0]     CountCust.name [Mustermann          ]
       Group number [   ]         Date of issue [ 1/ 1/1998]   Price [      30,00]
     Made by CP-no. [   13]     Park-Lot-No. [    0]         Value [      12,00]

         Valid from [ 1/ 1/1998] To [ 1/ 6/1998]
         Last entry [ 5/ 1/1998] At [08:00]    TCC no. [   5]
          Last exit [ 3/ 1/1998] At [16:04]    TCC no. [   4]
       Last payment [          ] At [      ]    TCC no. [    ]
          Protocol  [n]    Amount NZ [     0,00]  No. excess payment [    0]
                  used-up amount [     8,00]        No. of usage [      4]
         used-up time in HHHH.MM [     8,00]
                    TCC used last [entrance             ]   [ 5/ 1/1998][ 8.00]



         s=search    p=previous    n=next    d=delete    m=more    e=end
                    Which option do you require?
```

In this example, all information is given for a debit card with card number 12. This debit card has been coded with customer number 1 for the customer Mustermann. The card was issued (coded) on 1.1.98 by personnel number 13. It is valid from 1.1.98 to 1.6.98. The remaining value left on the card is DM 12.00, the original price was DM 30.00. The card was last used at entrance no. 5 on 5.1.98 and at exit no. 4 on 3.1.98. Use of the debit card was not recorded in a protocol.

3 Example display mask for managing cards (season parker card)

```
                         Manage cards
                                                   Date 10.01.98]
     car-park-no. [  1]          Car park name [Stadthalle           ]
        Card-No. [   34]           Card type [  5] Seasonparker card

   Customer-no. [     1]      Customer name [Mustermann           ]
   CountCustomer [     0]     CountCust.name [Mustermann           ]
    Group number [   ]          Date of issue [ 1/ 1/1998]   Price [      0,00]
   Made by CP-no. [   13]      Park-Lot-No. [   0]          Value [      0,00]

       Valid from [ 1/ 1/1998] To [ 1/ 2/1998]
       Last entry [10/ 1/1998] At [07:30]    TCC no. [  5]
        Last exit [ 9/ 1/1998] At [16:30]    TCC no. [  4]
     Last payment [         ] At [     ]    TCC no. [   ]
        Protocol  [n]    Amount NZ [     0,00]  No. excess payment [    0]
                    used-up amount [     8,00]        No. of usage [     7]
       used-up time in HHHH.MM [     8,00]
                    TCC used last [entrance              ]  [ 5/ 1/1998][ 8.00]
                    **Blacklist**
               **deleted**

       s=search    p=previous    n=next    d=delete    m=more    e=end
                      Which option do you require?
```

This shows the season parker card No. 34 for customer Mustermann. The card was issued (coded) on 1.1.98 by personnel number 13. It is valid from 1.1.98 to 1.2.98. the season parker card was last used at entrance no. 5 on 10.1.98 and at exit no. 4 on 9.1.98. Use of this season parker ticket is recorded in a protocol. Since coding, the card has been used 7 times at the entrance. The card was blacklisted and subsequently used at a terminal and deleted.

4 Example display mask for managing cards (function card)

```
                         Manage cards
                                                   Date 10.01.98]
     car-park-no. [  1]          Car park name [Stadthalle           ]
        Card-No. [    3]            Card type [  6]
                        **Function: open barrier**
   Customer-no. [     1]      Customer name [Schmidt (service)      ]
   CountCustomer [     1]     CountCust.name [Schmidt (service)      ]
    Group number [   ]          Date of issue [ 1/ 1/1998]   Price [      0,00]
   Made by CP-no. [   13]      Park-Lot-No. [   0]          Value [      0,00]

       Valid from [ 1/ 1/1998] To [30/12/1999]
       Last entry [         ] At [     ]    TCC no. [   ]
        Last exit [         ] At [     ]    TCC no. [   ]
     Last payment [         ] At [     ]    TCC no. [   ]
        Protocol  [n]    Amount NZ [        ]  No. excess payment [     ]
                    used-up amount [        ]         No. of usage [      ]
       used-up time in HHHH.MM [        ]
                    TCC used last [entrance              ]  [ 4/ 1/1998][13.20]

       s=search    p=previous    n=next    d=delete    m=more    e=end
                      Which option do you require?
```

The display mask for managing cards shows here all the information for a function card. This function card can be used to open all entrance and exit barriers. It has been coded for customer number 5 by personnel number 13. Validity is restricted from 1.1.98 to 30.12.99. It was last used at the entrance on 4.1.98.

5 Display mask for managing cards

```
                         Manage cards
                                                Date 10.01.98]
         car-park-no. [    ]        Car park name [                        ]
           Card-No. [      ]          Card type [    ]

         Customer-no. [      ]       Customer name [                    ]
         CountCustomer [      ]      CountCust.name [                   ]
         Group number [   ]          Date of issue [          ]  Price [        ]
       Made by CP-no. [      ]       Park-Lot-No. [     ]        Value [         ]

          Valid from [          ] To [          ]
          Last entry [          ] At [        ]   TCC no. [    ]
           Last exit [          ] At [        ]   TCC no. [    ]
        Last payment [          ] At [        ]   TCC no. [    ]
            Protocol  [n]   Amount NZ [          ]  No. excess payment [      ]
                      used-up amount [          ]         No. of usage [        ]
        used-up time in HHHH.MM [          ]
                    TCC used last [entrance              ]  [ 4/ 1/1998][13.20]

                        Area for Card status information

          s=search    p=previous    n=next    d=delete    m=more    e=end
                       Which option do you require?
```

The cards are displayed by scrolling with n=next and p=previous, assorted initially according to car park number, then card type, then card number.

Car park No.	Car park number for which this card is coded. This input field can be used as search criterion.
Car park name	Name of the car park for which this card is coded
Card No.	Serial number of the card. This input field can be used as search criterion.
Card type	Number key for the card type. Card types are season parker cards (5), debit cards (4) and function cards (6). This input field can be used as search criterion.
Function	The function is displayed for the function cards.
Customer No.	Customer number of the customer for whom this card has been coded.
Customer name	Name of the customer for whom this card has been coded.
Count customer No.	For customer-related counting, the name of the count customer is shown if this is different from the actual customer name. This is the case for example when the customer is employee of a company and customer-related counting has been set up for this company.
Count customer name	Name of the customer for whom customer-related counting has been set up.
SP group No.	For season parker cards, the season parker group number is shown for whom this card has been coded.
Date of issue	Date on which this card was made/issued.
Price DM	Price of the card on issue.
Issued by CP No.	Personnel number of the person logged in at the point in time of issuing the card.

Managing cards

Park lot No.	No longer used. For hotel ticket function, this field is used to show the room number.
Value DM	Current value of the debit card.
Valid from/to	Validity period of the card.
Last entry/at/TCC No.	Date, time and terminal number of last entry.
Last exit/at/TCC No.	Date, time and terminal number of the last exit.
Last payment/at/TCC No..	Date, time and terminal number of last payment at a cashpoint.
Protocol	Indicates whether the card is currently recorded in a protocol or not. Information about entries and exits can be accessed via a separate menu point.
Amount excess payment	Total amount of excess payments for debit or season parker cards. Excess payments occur for debit cards when the remaining amount of the debit card is less than the due parking fee. Excess payment has to be made for season parker cards as soon as the season parker group time has been exceeded.
Used-up amount	Used-up amount of the debit card. I.e. the total amount which has been booked off the card for the total parking time at the valid rate. This amount is not necessarily the amount which would have been incurred during the used-up time in hours and minutes, as a full rate step is always calculated (e.g. hours).
No. of entries	Number of entries with this card.
Used-up time in HHHH.MM	Used-up time in hours and minutes. I.e. the whole time which has been parked with this card up to now.
Last used TCC	Terminal number of the last successfully used terminal.
Number of excess payments	Number of excess payments at cashpoint on exceeding the season parker group time (for season parker cards) or for exceeding the value (for debit cards).

5.1 Card status information

Parking fraud(P)	If a customer reverses at an entrance or exit after retrieving his season parker card or debit card from the Multikon, the status parking fraud is set for his card. At the same time, the card is blacklisted. The card is marked as "deleted" when next used at a terminal, and retrieved at the exit depending on the terminal configuration. This card status can be reset by entering *f.
Blacklist(B)	If a card has been blacklisted by the operator or automatically by the system (parking fraud status), the card is either rejected and/or deleted at the entrances and exits. For this purpose, blacklist verification must be activated at the individual terminals. The menu point **terminal status** shows whether the blacklist verification is activated at the terminals. If necessary, it must be activated in the main menu **commands.**
by TCC(T)	Season parker cards, debit cards or function cards which have been deleted in the menu point **deleting cards** but can still drive into and out of the card park, are automatically entered in the system again "by the TCC". In this case the customer number is not coded on the card itself so that the customer number 9999, 9998 or 0 is used. The function of automatic entry depends on the configuration, in other words it can be deactivated as required.
Expired(U)	If the validity period of a season parker card, debit card or function card has expired, the card status is set to expired as soon as the card is used.
Deleted(L)	If a card has been blacklisted and then used at a terminal, the card is re-coded as deleted. I.e. the number of the last used terminal is set to 0 on the card. The card status of the card is then set to deleted in the database. All other terminals will return this card as deleted.
Extended(V)	If a card has been extended at the data control center without the card itself being coded, the card status is set to extended. Once the validity period has expired, the card is then re-coded when next used at an entrance or exit, and the card status "extended" is reset.
Query(A)	Cards with the query status are always queried by the terminals with the data control center. This query transfers the card park number, card type and card number to the data control center. It reports the number, date, time and card status of the last used terminal to the querying terminal. The purpose of this function is to obtain precise rate calculation for debit and season parker cards.
Hotel ticket(H)	This card status is only used with activated hotel ticket function.

5.2 Normal selection options

s=search   Search for cards by stating the car park number, card number and card type. All inputs are optional, i.e. it is possible to skip the input fields by pressing RETURN.

p=previous.   Shows the previous data record.

n=next   Shows the next data record.

d=delete   This selection option is only activated in the submenu point **delete cards** in the main menu **master data**.

m=more   Shows the extended selection options (see chapter 5.3).

e=end   Quits the mask **managing cards**.

5.3 Extended selection options

```
                          Manage cards
                                                    Date 10.01.98]
         car-park-no. [  1]       Car park name [Stadthalle          ]
             Card-No. [    3]        Card type [  6]
                              Function: open barrier
       Customer-no. [      1]     Customer name [Schmidt (service)       ]
       CountCustomer [      1]    CountCust.name [Schmidt (service)       ]
       Group number [    ]        Date of issue [ 1/ 1/1998]   Price [      0,00]
     Made by CP-no. [   13]      Park-Lot-No. [    0]         Value [      0,00]

          Valid from [ 1/ 1/1998] To [30/12/1999]
          Last entry [           ] At [       ]   TCC no. [    ]
           Last exit [           ] At [       ]   TCC no. [    ]
        Last payment [           ] At [       ]   TCC no. [    ]
          Protocol  [n]   Amount NZ [           ] No. excess payment [     ]
              used-up amount [           ]        No. of usage [        ]
       used-up time in HHHH.MM [         ]
              TCC used last [entrance               ]   [ 4/ 1/1998][13.20]

                   Area for Card status information.

        s=search   p=previous   n=next    d=delete   m=more   e=end
                      Which option do you require?
            *b=Blacklist  *r=request  *f=free  *p=protocol  *h=history
```

*b=Blacklist   All cards shown in this mask can be blacklisted if necessary. If a card is already blacklisted, it can be removed from the blacklist by entering *b again. Depending on whether blacklist verification is activated at the individual terminals or not, and how the terminals have been configured, the cards are rejected and/or deleted at the entrances and exits.

*q=query   All cards shown in this mask can be queried. If a card has already been queried, it can be removed from the query by entering *q again.

*f=free   If a card has been given blacklist, deleted or parking fraud status, this can be reversed by entering *f again.

*p=protocol   Card movements can be recorded in a protocol as required. All this collected information can then be listed in a separate menu point and featured in a printout.
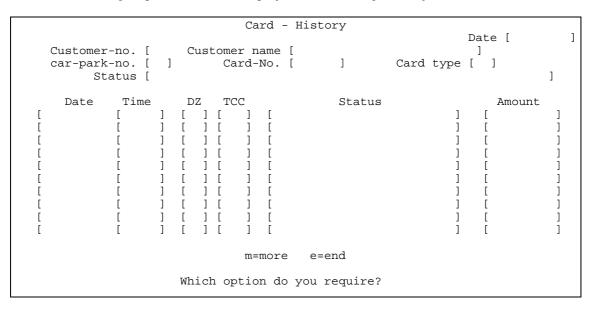
*h=history   Special type of card protocol. As required, all status changes carried out in the data control centercan be shown here with date and time (see chapter 6).

This function requires a licence.
Please contact your sales office.

6 Extended display card history (licence required)

```
                            Card - History
                                                    Date [        ]
        Customer-no. [      Customer name [                  ]
        car-park-no. [  ]        Card-No. [        ]        Card type [   ]
            Status [                                              ]

        Date      Time      DZ    TCC              Status              Amount
    [             [        ] [   ] [     ] [                    ] [          ]
    [             [        ] [   ] [     ] [                    ] [          ]
    [             [        ] [   ] [     ] [                    ] [          ]
    [             [        ] [   ] [     ] [                    ] [          ]
    [             [        ] [   ] [     ] [                    ] [          ]
    [             [        ] [   ] [     ] [                    ] [          ]
    [             [        ] [   ] [     ] [                    ] [          ]
    [             [        ] [   ] [     ] [                    ] [          ]
    [             [        ] [   ] [     ] [                    ] [          ]
    [             [        ] [   ] [     ] [                    ] [          ]

                        m=more    e=end

                    Which option do you require?
```

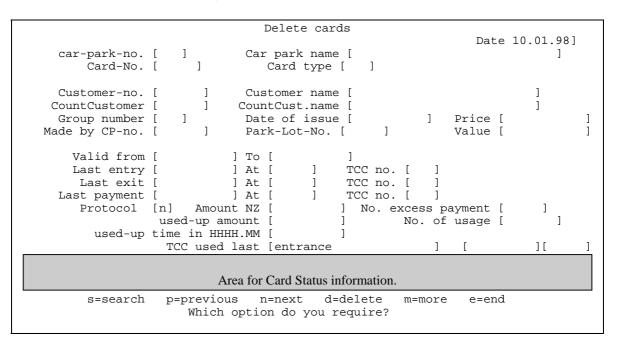|	
Customer No.	Customer number of the customer for whom this card has been coded.
Customer name	Name of the customer for whom this card has been coded.
Car park No.	Car park number for which this card has been coded.
Card No.	Serial number of the card.
Card type	Number key for the card type. Card types are season parker cards (5), debit cards (4) and function cards (6). This input field can be used as search criterion.
Status	List of all card status information.
Date	Date of the last action.
Time	Time of the last action.
DZ	Number of the data control center where the action took place.
TCC	Terminal number where the action took place.
Status	Action in the context of the card.
Amount	Incurred amount.

6.1 Selection options

m=more   Shows older information.

e=end   Quits the **card history** display mask and returns to the **managing cards** display mask.

7 Display mask for deleting cards

```
                              Delete cards
                                                   Date 10.01.98]
          car-park-no. [   ]        Car park name [                      ]
             Card-No. [     ]         Card type [   ]

         Customer-no. [       ]      Customer name [                  ]
        CountCustomer [       ]      CountCust.name [                  ]
         Group number [   ]          Date of issue [         ]  Price [         ]
        Made by CP-no. [     ]       Park-Lot-No. [     ]         Value [         ]

           Valid from [         ] To [          ]
           Last entry [         ] At [      ]   TCC no. [   ]
            Last exit [         ] At [      ]   TCC no. [   ]
         Last payment [         ] At [      ]   TCC no. [   ]
            Protocol  [n]    Amount NZ [          ] No. excess payment [     ]
                    used-up amount [          ]       No. of usage [      ]
          used-up time in HHHH.MM [          ]
                    TCC used last [entrance              ]   [          ][     ]
```

Area for Card Status information.

```
     s=search   p=previous   n=next   d=delete   m=more   e=end
                    Which option do you require?
```

If a card is to be deleted at the data control center to be coded then for another customer, first it must be deleted in the menu point **delete cards** under the main menu point **master data**.

This procedure is recommended when the card is available!

Note :
A card which has been deleted in the data control center but is still in circulation enters itself again under customer number 9999, so that the parker can still drive into and out of the car park.
This function can be configured in the system (i.e. can be deactivated). It is however recommended for the event that all card data are deleted by mistake.

If the season parker card is not available, i.e. is still in circulation, it has to be blacklisted in the data control center. In order to blacklist a season parker card, the menu point **manage cards** has to be accessed in the main menu **master data** . The season parker card is then deleted the next time it is used at a terminal (entrance, exit or cashpoint). A card which has been deleted in this way is then

- either rejected at the entrance or accepted once more
- retrieved at the exit or returned when the barrier is down,

(depending on the configuration of the individual terminals).
If the season parker card has been deleted and retrieved, the card can be deleted at the data control centerin the menu point **delete cards** in the main menu point **master data** or **season parkers.**

7.1 Selection options

s=search   In order to select a card to be deleted at the data control center, first the option s=search has to be activated. Scrolling with p=previous or n=next is not possible for security reasons.

d=delete   After entering the selection option d=delete, a safety check appears. After confirmation, this card is deleted.

8 List of key words

Managing cards