

# MOST

Media Oriented Systems Transport

Multimedia and Control  
Networking Technology

**MOST FBlock GeneralPhoneBook**

**Rev 2.3.3**

**12/2011**

**MOSTCO CONFIDENTIAL**

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## GeneralPhoneBook FBlock (0x51) Change History

### Changes GeneralPhoneBook FBlock 2.3.2 to GeneralPhoneBook FBlock 2.3.3

| Change Ref. | FktID | Changes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2.3.3-001   | -     | <ul style="list-style-type: none"> <li>Removed list of released FBlocks, which is of no relevance to this FBlock.</li> <li>Added references to MOST Specification Revisions 2.5 and 3.0 as well as GeneralFBlock Revisions 2.5.1 and 3.0.3.</li> <li>Correction of clerical errors.</li> <li>Added Occurrence attribute to all functions, based on function ID: 0x204...0x205 are mandatory; 0x400...0x600 are optional.</li> <li>Corrected class references so that no deprecated references are used.</li> <li>Added SymbolicNames to all Enums.</li> </ul> |
| 2.3.3-002   | -     | Removed empty Dynamic Specification chapter.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 2.3.3-003   | 0x000 | Removed function FktIDs because it is contained in the GeneralFBlock.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 2.3.3-004   | 0x001 | Removed function Notification because it is contained in the GeneralFBlock.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 2.3.3-005   | 0x002 | Removed function NotificationCheck because it is contained in the GeneralFBlock.                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 2.3.3-006   | 0x080 | DynArrayIns: Removed function because it is contained in the GeneralFBlock.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 2.3.3-007   | 0x081 | DynArrayDel: Removed function because it is contained in the GeneralFBlock.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 2.3.3-008   | 0x090 | CreateArrayWindow: Removed function because it is contained in the GeneralFBlock.                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 2.3.3-009   | 0x091 | DestroyArrayWindow: Removed function because it is contained in the GeneralFBlock.                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 2.3.3-010   | 0x092 | MoveArrayWindow: Removed function because it is contained in the GeneralFBlock.                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 2.3.3-011   | 0x093 | SearchArrayWindow: Removed function because it is contained in the GeneralFBlock.                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 2.3.3-012   | 0x094 | LongArrayInfo: Removed function because it is contained in the GeneralFBlock.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 2.3.3-013   | 0x204 | Information: Removed references to Bits 1...7 from parameter Availability because only Bit 0 is required for Boolean.                                                                                                                                                                                                                                                                                                                                                                                                                                         |

### Changes GeneralPhoneBook FBlock 2.3.1 to GeneralPhoneBook FBlock 2.3.2

| Change Ref. | FktID | Changes                                                  |
|-------------|-------|----------------------------------------------------------|
| 2.3.2-001   | 0x093 | - Parameter FktIDMotherArray changed to FktIDArrayWindow |

### Changes GeneralPhoneBook FBlock 2.3 to GeneralPhoneBook FBlock 2.3.1

| Change Ref. | FktID | Changes                                       |
|-------------|-------|-----------------------------------------------|
| 2.3.1-001   | 0x002 | - Changed description of parameter FktIDList. |
|             |       | -                                             |

## Bibliography

All documents, which this MOST document have references to, are listed here with the actual revision this document is referring to.

| Number | Document                                    | Revision |
|--------|---------------------------------------------|----------|
| [1]    | MOST Specification                          | 2.5      |
| [2]    | MOST Specification                          | 3.0      |
| [3]    | GeneralFBlock FBlock Template Specification | 2.5.1    |
| [4]    | GeneralFBlock FBlock Template Specification | 3.0.3    |

# 1 Introduction

This document contains the specification of an FBlock. MOST FBlocks are standardized and maintained by MOST workgroup Device Architecture (WG\_DA). In order to speed up the process of making new FBlocks available, every FBlock will be updated individually as required.

## 2 FBlock Definition

### 2.1 GeneralPhoneBook (FBlockID=0x51)

Under certain system conditions it can be helpful if a device can check whether its entries are still existent in the notification matrix or not. In case of error, a device is able to renew its entries. In addition to the functions contained in this document, the following functions are also part of this FBlock. They exist in the GeneralFBlock template and are included here by reference.

For GeneralFBlock Rev. 2.5.1, the included functions are:

| FktID | Function name      |
|-------|--------------------|
| 0x000 | FktIDs             |
| 0x001 | Notification       |
| 0x002 | NotificationCheck  |
| 0x010 | Version            |
| 0x080 | DynArrayIns        |
| 0x081 | DynArrayDel        |
| 0x090 | CreateArrayWindow  |
| 0x091 | DestroyArrayWindow |
| 0x092 | MoveArrayWindow    |
| 0x093 | SearchArrayWindow  |
| 0x094 | LongArrayInfo      |

For GeneralFBlock Rev. 3.0.3, the included functions are:

| FktID | Function name      |
|-------|--------------------|
| 0x000 | FktIDs             |
| 0x001 | Notification       |
| 0x002 | NotificationCheck  |
| 0x011 | FBlockInfo         |
| 0x080 | DynArrayIns        |
| 0x081 | DynArrayDel        |
| 0x090 | CreateArrayWindow  |
| 0x091 | DestroyArrayWindow |
| 0x092 | MoveArrayWindow    |
| 0x093 | SearchArrayWindow  |
| 0x094 | LongArrayInfo      |

| Function Overview |                                   |            |
|-------------------|-----------------------------------|------------|
| FktID             | Name                              | Occurrence |
| 0x204             | <a href="#">Information</a>       | Mandatory  |
| 0x205             | <a href="#">MemoryUsage</a>       | Mandatory  |
| 0x400             | <a href="#">StandardPhonebook</a> | Optional   |
| 0x500             | <a href="#">CDMAPhonebook</a>     | Optional   |
| 0x600             | <a href="#">PDCPhonebook</a>      | Optional   |



## 2.1.1 Information (0x204)

Occurrence: Mandatory

This property provides detailed information about the used phone books.

### 2.1.1.1 Format of Function

**Function classes:** Array of { Record of { Enumeration String Number Enumeration Boolean Enumeration } }

| FBlock                   | Function            | OPType | Parameter                                  |
|--------------------------|---------------------|--------|--------------------------------------------|
| GeneralPhone Book (0x51) | Information (0x204) | Get    | <a href="#">Pos</a>                        |
|                          |                     | Status | <a href="#">Pos</a> , <a href="#">Data</a> |
|                          |                     | Error  | ErrorCode, ErrorInfo                       |

### 2.1.1.2 Parameter

#### Pos

The parameter Pos=(x,y) consists of two bytes and shows which parameter(s) shall be read. x = 0...NMax; y = 0...6

| Basis data type | Exp. | Range of values | Step | Unit |
|-----------------|------|-----------------|------|------|
| Unsigned Word   | 0    |                 | 1    | none |

#### Data

Dependent on parameter Pos, Data consists of the following parameters:

| Basis data type | Length | Description  |                                                                                                                                                                                                                                                                                                                                      |
|-----------------|--------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Array           | -      | Pos          | Data                                                                                                                                                                                                                                                                                                                                 |
|                 |        | { x=0, y=0 } | PhonebookType[1], PhonebookName[1], FktID[1], AccessType[1], Availability[1], PhonebookStructure[1], PhonebookType[2], PhonebookName[2], FktID[2], AccessType[2], Availability[2], PhonebookStructure[2], ..., PhonebookType[NMax], PhonebookName[NMax], FktID[NMax], AccessType[NMax], Availability[NMax], PhonebookStructure[NMax] |
|                 |        | { x>0, y=0 } | PhonebookType[x], PhonebookName[x], FktID[x], AccessType[x], Availability[x], PhonebookStructure[x]                                                                                                                                                                                                                                  |
|                 |        | { x>0, y=1 } | PhonebookType[x]                                                                                                                                                                                                                                                                                                                     |
|                 |        | { x>0, y=2 } | PhonebookName[x]                                                                                                                                                                                                                                                                                                                     |
|                 |        | { x>0, y=3 } | FktID[x]                                                                                                                                                                                                                                                                                                                             |
|                 |        | { x>0, y=4 } | AccessType[x]                                                                                                                                                                                                                                                                                                                        |
|                 |        | { x>0, y=5 } | Availability[x]                                                                                                                                                                                                                                                                                                                      |
|                 |        | { x>0, y=6 } | PhonebookStructure[x]                                                                                                                                                                                                                                                                                                                |

## PhonebookType

| Basis data type | Range of values | Code | Symbolic Name       | Description         |
|-----------------|-----------------|------|---------------------|---------------------|
| Enum            | 0x00...0x0A     | 0x00 | SIMPhonebook        | SIMPhonebook        |
|                 |                 | 0x01 | LastDialedNumbers   | LastDialedNumbers   |
|                 |                 | 0x02 | LastAnsweredNumbers | LastAnsweredNumbers |
|                 |                 | 0x03 | MissedNumbers       | MissedNumbers       |
|                 |                 | 0x04 | reserved1           | reserved1           |
|                 |                 | 0x05 | reserved2           | reserved2           |
|                 |                 | 0x06 | reserved3           | reserved3           |
|                 |                 | 0x07 | reserved4           | reserved4           |
|                 |                 | 0x08 | reserved5           | reserved5           |
|                 |                 | 0x09 | reserved6           | reserved6           |
|                 |                 | 0x0A | reserved7           | reserved7           |

## PhonebookName

| Basis data type | MaxSize |
|-----------------|---------|
| String          | 20      |

## FktID

| Basis data type | Exp. | Range of values | Step | Unit |
|-----------------|------|-----------------|------|------|
| Unsigned Word   | 0    |                 | 1    | none |

## AccessType

| Basis data type | Range of values | Code | Symbolic Name | Description               |
|-----------------|-----------------|------|---------------|---------------------------|
| Enum            | 0x00...0x01     | 0x00 | ReadOnly      | Read Only                 |
|                 |                 | 0x01 | ReadWrite     | Read Write (incl. Delete) |

## Availability

| Basis data type | Bit # | Code  | Description   |
|-----------------|-------|-------|---------------|
| Boolean         | Bit 0 | True  | available     |
|                 |       | False | not available |

## PhonebookStructure

| Basis data type | Range of values | Code | Symbolic Name | Description   |
|-----------------|-----------------|------|---------------|---------------|
| Enum            | 0x00...0x02     | 0x00 | StandardType  | Standard Type |
|                 |                 | 0x01 | CDMAType      | CDMA Type     |
|                 |                 | 0x02 | PDCType       | PDC Type      |

## 2.1.2 MemoryUsage (0x205)

Occurrence: Mandatory

This property provides detailed information about the size of the phonebooks.

### 2.1.2.1 Format of Function

**Function classes:** Array of { Record of { Number Number Number } }

| FBlock                   | Function            | OPType | Parameter                 |
|--------------------------|---------------------|--------|---------------------------|
| GeneralPhone Book (0x51) | MemoryUsage (0x205) | Get    | <a href="#">Pos</a>       |
|                          |                     | Status | <a href="#">Pos, Data</a> |
|                          |                     | Error  | ErrorCode, ErrorInfo      |

### 2.1.2.2 Parameter

#### Pos

The parameter Pos=(x,y) consists of two bytes and shows which parameter(s) shall be read. x = 0...NMax; y = 0...3

| Basis data type | Exp. | Range of values | Step | Unit |
|-----------------|------|-----------------|------|------|
| Unsigned Word   | 0    |                 | 1    | none |

#### Data

Dependent on parameter Pos, Data consists of the following parameters:

| Basis data type | Length | Description  |                                                                                                                                                                       |
|-----------------|--------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Array           | -      | Pos          | Data                                                                                                                                                                  |
|                 |        | { x=0, y=0 } | FktID[1], NoOfTotalEntries[1], NoOfUsedEntries[1], FktID[2], NoOfTotalEntries[2], NoOfUsedEntries[2], ..., FktID[NMax], NoOfTotalEntries[NMax], NoOfUsedEntries[NMax] |
|                 |        | { x>0, y=0 } | FktID[x], NoOfTotalEntries[x], NoOfUsedEntries[x]                                                                                                                     |
|                 |        | { x>0, y=1 } | FktID[x]                                                                                                                                                              |
|                 |        | { x>0, y=2 } | NoOfTotalEntries[x]                                                                                                                                                   |
|                 |        | { x>0, y=3 } | NoOfUsedEntries[x]                                                                                                                                                    |

#### FktID

| Basis data type | Exp. | Range of values | Step | Unit |
|-----------------|------|-----------------|------|------|
| Unsigned Word   | 0    |                 | 1    |      |

#### NoOfTotalEntries

0xFFFF = No is not applicable

| Basis data type | Exp. | Range of values | Step | Unit |
|-----------------|------|-----------------|------|------|
| Unsigned Word   | 0    |                 | 1    | none |

## NoOfUsedEntries

---

0xFFFF = No is not applicable

| Basis data type | Exp. | Range of values | Step | Unit |
|-----------------|------|-----------------|------|------|
| Unsigned Word   | 0    |                 | 1    |      |

## 2.1.3 StandardPhonebook (0x400)

Occurrence: Optional

Standard phonebooks for GSM, AMPS, TDMA, etc. The function IDs 0x400 to 0x4FF are reserved for Standard Phonebooks. The function can be used as a DynamicArray or as a MotherArray for an ArrayWindow. For this case the FctIDs 0x401 to 0x40F are reserved for possible instance-handles. From 0x410 on further CDMAPhonebooks can be inserted.

### 2.1.3.1 Format of Function

**Function classes:** DynamicArray of { Record of { Number String String } }

| FBlock                   | Function                  | OPType | Parameter                                                         |
|--------------------------|---------------------------|--------|-------------------------------------------------------------------|
| GeneralPhone Book (0x51) | StandardPhonebook (0x400) | Set    | <a href="#">Tag</a> , <a href="#">PosY</a> , <a href="#">Data</a> |
|                          |                           | Get    | <a href="#">Tag</a> , <a href="#">PosY</a>                        |
|                          |                           | Status | <a href="#">Tag</a> , <a href="#">PosY</a> , <a href="#">Data</a> |
|                          |                           | Error  | ErrorCode, ErrorInfo                                              |

### 2.1.3.2 Parameter

#### Tag

Unique identifier of the phonebook entry (0xFFFF is no valid Tag)

| Basis data type | Exp. | Range of values | Step | Unit |
|-----------------|------|-----------------|------|------|
| Unsigned Word   | 0    |                 | 1    | none |

#### PosY

| Basis data type | Exp. | Range of values | Step | Unit |
|-----------------|------|-----------------|------|------|
| Unsigned Byte   | 0    | 0...3           | 1    | none |

#### Data

| Basis data type | Length | Description  |                                                                                                                                         |
|-----------------|--------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Array           | -      | Pos          | Data                                                                                                                                    |
|                 |        | { x=0, y=0 } | Tag[1], Name[Tag[1]], TelNumber[Tag[1]], Tag[2], Name[Tag[2]], TelNumber[Tag[2]], ..., Tag[Nmax], Name[Tag[NMax]], TelNumber[Tag[NMax]] |
|                 |        | { x>0, y=0 } | Tag, Name[Tag], TelNumber[Tag]                                                                                                          |
|                 |        | { x>0, y=2 } | Name[Tag]                                                                                                                               |
|                 |        | { x>0, y=3 } | TelNumber[Tag]                                                                                                                          |

#### Tag

Unique identifier of the phonebook entry (0xFFFF is no valid Tag)

| Basis data type | Exp. | Range of values | Step | Unit |
|-----------------|------|-----------------|------|------|
| Unsigned Word   | 0    |                 | 1    | none |

## Name

Name in phonebook

| Basis data type | MaxSize |
|-----------------|---------|
| String          | 50      |

## TelNumber

Phone number

| Basis data type | MaxSize |
|-----------------|---------|
| String          | 40      |

## 2.1.4 CDMAPhonebook (0x500)

Occurrence: Optional

CDMAPhonebook is used to handle phonebooks in the CDMA mobile standard (North America). The function can be used as a DynamicArray or as a MotherArray for an ArrayWindow. For this case the FctIDs 0x501 to 0x50F are reserved for possible instance-handles. From 0x510 on further CDMAPhonebooks can be inserted.

### 2.1.4.1 Format of Function

**Function classes:** DynamicArray of { Record of { Number String String String String String } }

| FBlock                   | Function              | OPType | Parameter                                                         |
|--------------------------|-----------------------|--------|-------------------------------------------------------------------|
| GeneralPhone Book (0x51) | CDMAPhonebook (0x500) | Set    | <a href="#">Tag</a> , <a href="#">PosY</a> , <a href="#">Data</a> |
|                          |                       | Get    | <a href="#">Tag</a> , <a href="#">PosY</a>                        |
|                          |                       | Status | <a href="#">Tag</a> , <a href="#">PosY</a> , <a href="#">Data</a> |
|                          |                       | Error  | ErrorCode, ErrorInfo                                              |

### 2.1.4.2 Parameter

#### Tag

Unique identifier of the phonebook entry (0xFFFF is no valid Tag)

| Basis data type | Exp. | Range of values | Step | Unit |
|-----------------|------|-----------------|------|------|
| Unsigned Word   | 0    |                 | 1    | none |

#### PosY

| Basis data type | Exp. | Range of values | Step | Unit |
|-----------------|------|-----------------|------|------|
| Unsigned Byte   | 0    | 0...6           | 1    | none |

#### Data

| Basis data type | Length | Description  |                                                                                                                                                                                                                                                                                                                                         |
|-----------------|--------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Array           | -      | Pos          | Data                                                                                                                                                                                                                                                                                                                                    |
|                 |        | { x=0, y=0 } | Tag[1], Name[Tag[1]], TelNumber1[Tag[1]], TelNumber2[Tag[1]], TelNumber3[Tag[1]], TelNumber4[Tag[1]], Tag[2], Name[Tag[2]], TelNumber1[Tag[2]], TelNumber2[Tag[2]], TelNumber3[Tag[2]], TelNumber4[Tag[2]], ..., Tag[Nmax], Name[Tag[NMax]], TelNumber1[Tag[NMax]], TelNumber2[Tag[NMax]], TelNumber3[Tag[NMax]], TelNumber4[Tag[NMax]] |
|                 |        | { x>0, y=0 } | Tag, Name[Tag], TelNumber1[Tag], TelNumber2[Tag], TelNumber3[Tag], TelNumber4[Tag]                                                                                                                                                                                                                                                      |
|                 |        | { x>0, y=2 } | Name[Tag]                                                                                                                                                                                                                                                                                                                               |
|                 |        | { x>0, y=3 } | TelNumber1[Tag]                                                                                                                                                                                                                                                                                                                         |
|                 |        | { x>0, y=4 } | TelNumber2[Tag]                                                                                                                                                                                                                                                                                                                         |
|                 |        | { x>0, y=5 } | TelNumber3[Tag]                                                                                                                                                                                                                                                                                                                         |
|                 |        | { x>0, y=6 } | TelNumber4[Tag]                                                                                                                                                                                                                                                                                                                         |

## Tag

Unique identifier of the phonebook entry (0xFFFF is no valid Tag)

| Basis data type | Exp. | Range of values | Step | Unit |
|-----------------|------|-----------------|------|------|
| Unsigned Word   | 0    |                 | 1    | none |

## Name

Name in phonebook

| Basis data type | MaxSize |
|-----------------|---------|
| String          | 50      |

## TelNumber1

First Telephone number

| Basis data type | MaxSize |
|-----------------|---------|
| String          | 40      |

## TelNumber2

Second Telephone Number

| Basis data type | MaxSize |
|-----------------|---------|
| String          | 40      |

## TelNumber3

Third Telephone Number

| Basis data type | MaxSize |
|-----------------|---------|
| String          | 40      |

## TelNumber4

Fourth Telephone Number

| Basis data type | MaxSize |
|-----------------|---------|
| String          | 40      |



## 2.1.5 PDCTPhonebook (0x600)

Occurrence: Optional

PDCTPhonebook is used to handle phonebooks in the PDC mobile standard (Japan). The function can be used as a DynamicArray or as a MotherArray for an ArrayWindow. For this case the FctIDs 0x601 to 0x60F are reserved for possible instance-handles. From 0x610 on further PDCTPhonebooks can be inserted.

### 2.1.5.1 Format of Function

**Function classes:** DynamicArray of { Record of { Number String String String String String } }

| FBlock                   | Function              | OPType | Parameter                                                         |
|--------------------------|-----------------------|--------|-------------------------------------------------------------------|
| GeneralPhone Book (0x51) | PDCTPhonebook (0x600) | Set    | <a href="#">Tag</a> , <a href="#">PosY</a> , <a href="#">Data</a> |
|                          |                       | Get    | <a href="#">Tag</a> , <a href="#">PosY</a>                        |
|                          |                       | Status | <a href="#">Tag</a> , <a href="#">PosY</a> , <a href="#">Data</a> |
|                          |                       | Error  | ErrorCode, ErrorInfo                                              |

### 2.1.5.2 Parameter

#### Tag

Unique identifier of the phonebook entry (0xFFFF is no valid Tag)

| Basis data type | Exp. | Range of values | Step | Unit |
|-----------------|------|-----------------|------|------|
| Unsigned Word   | 0    |                 | 1    | none |

#### PosY

| Basis data type | Exp. | Range of values | Step | Unit |
|-----------------|------|-----------------|------|------|
| Unsigned Byte   | 0    | 0...6           | 1    | none |

#### Data

| Basis data type | Length | Description  |                                                                                                                                                                                                                                                                                                     |
|-----------------|--------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Array           | -      | Pos          | Data                                                                                                                                                                                                                                                                                                |
|                 |        | { x=0, y=0 } | Tag[1], Name[Tag[1]], Kana[Tag[1]],<br>TelNumber[Tag[1]], Date[Tag[1]],<br>Time[Tag[1]], Tag[2], Name[Tag[2]],<br>Kana[Tag[2]], TelNumber[Tag[2]],<br>Date[Tag[2]], Time[Tag[2]], ..., Tag[Nmax],<br>Name[Tag[NMax]], Kana[Tag[NMax]],<br>TelNumber[Tag[NMax]], Date[Tag[NMax]],<br>Time[Tag[NMax]] |
|                 |        | { x>0, y=0 } | Tag, Name[Tag], Kana[Tag],<br>TelNumber[Tag], Date[Tag], Time[Tag]                                                                                                                                                                                                                                  |
|                 |        | { x>0, y=2 } | Name[Tag]                                                                                                                                                                                                                                                                                           |
|                 |        | { x>0, y=3 } | Kana[Tag]                                                                                                                                                                                                                                                                                           |
|                 |        | { x>0, y=4 } | TelNumber[Tag]                                                                                                                                                                                                                                                                                      |
|                 |        | { x>0, y=5 } | Date[Tag]                                                                                                                                                                                                                                                                                           |
|                 |        | { x>0, y=6 } | Time[Tag]                                                                                                                                                                                                                                                                                           |

## Tag

Unique identifier of the phonebook entry (0xFFFF is no valid Tag)

| Basis data type | Exp. | Range of values | Step | Unit |
|-----------------|------|-----------------|------|------|
| Unsigned Word   | 0    |                 | 1    | none |

## Name

Name in phonebook (A-Z or Kanji)

| Basis data type | MaxSize |
|-----------------|---------|
| String          | 24      |

## Kana

Keyword to sort

| Basis data type | MaxSize |
|-----------------|---------|
| String          | 24      |

## TelNumber

Phone number

| Basis data type | MaxSize |
|-----------------|---------|
| String          | 24      |

## Date

Date of phonebook entry change

| Basis data type | MaxSize |
|-----------------|---------|
| String          | 8       |

## Time

Time of phonebook entry change

| Basis data type | MaxSize |
|-----------------|---------|
| String          | 4       |

Notes: