

# Interception service, IS

INTERWORKING DESCRIPTION



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## 1

## GENERAL

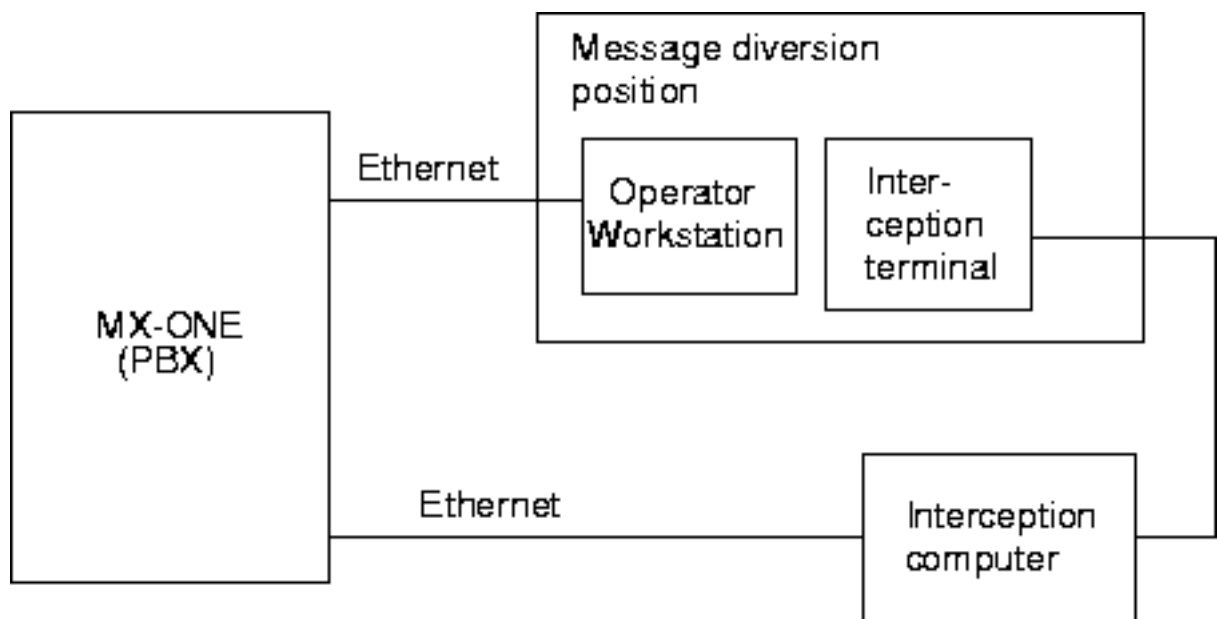
The interception computer is used for storing information on the following extensions:

- Directory information (department, directory number, and so on)
- Information on absent extension users (reason for absence, date of return, and so on)
- Messages for absent extension users

The interception computer is also used for presenting the above information on a display terminal (located at an answering position for message diversion) when diverted calls for the extension in question are received.

The interception computer is capable of storing messages to extensions or accepting indications from other electronic text message systems connected to the interception computer that a certain extension has one or more messages waiting.

In both cases, the interception computer can announce that the extension has messages waiting in the interception computer or in any message system connected to the interception computer via the entry (in) interface.



**Figure 1: Configuration for the Interception Computer Function**

## 2 INTERFACE IN

### 2.1 GENERAL

The interception computer is connected to an individual on the TCP or IP Interface.  
Only one interception computer can be connected (to one individual) to the exchange.

### 2.2 PROTOCOL

The signals exchanged between the interception computer and the MX-ONE Service Node consists of the following parts:

- STX  
Start of text character
- XX  
A 2 to 10-digit terminal number that defines a message diversion position in the interception computer
- NNNN  
A 2 to 10-digit directory number in the system
- SS  
A 2-digit message system number that defines the message system number in which there is a message waiting for the extension
- 00  
System identity of the interception computer
- T  
Reason-for-absence code 0-9 (1 digit)
- YYYY  
Date or time of return (4 digits)
- CR  
Carriage Return character
- LF  
Line Feed character

The digit formats used for directory numbers are set by commands in the MX-ONE Service Node and are also defined in the interception computer system. If, for example, a 10-digit format is set for a directory number, then 10 digits are always sent in the signals. Directory number format for interception computer can be different from other information systems. Directory numbers containing less than the specified digit format (for example, 10-digits), are right justified and filled using the filler character.

Via command it is possible to select whether data flow checks must be used or not used (XON-XOFF protocol).

The interception computer must be able to accept the following signals, which are sent **from the MX-ONE Service Node**:

- **STX 50 NNNN XX CR LF**  
Displays information about extension NNNN on terminal XX.  
The signal is used when an answering position answers a diverted call to extension NNNN.
- **STX 51 NNNN XX CR LF**  
Displays information about extension NNNN on terminal XX.  
The signal is used when an answering position answers a direct call from extension NNNN.
- **STX 53 XX CR LF**  
Ends displaying information on terminal XX.
- **STX 54 CR LF**  
The PBX requests updating from the interception computer which means that it asks the interception computer to order message diversion for all extensions with active message diversion and to indicate MESSAGE WAITING for the extensions concerned.
- **STX 58 NNNN XX CR LF**  
Deactivates the message diversion function and prints the secondary information (if any) on terminal XX.
- **STX 59 NNNN XX CR LF**  
Prints the secondary information (if any) on terminal XX.
- **STX 61 NNNN T YYYY CR L F** or **STX 61 NNNN T CR LF**  
Activates the message diversion function for extension NNNN.
- **STX 70 NNNN SS CR LF**  
Acknowledgment of message waiting indication from extension NNNN and message system SS. The signal is sent only if the function has been chosen by entering the *ICMWC* command.
- **STX 99 CR LF**  
Heartbeat response.  
The heartbeat response is sent from the PBX in response to heartbeat check signal.

The MX-ONE Service Node can receive the following signals **from the interception computer**:

- **STX 00 NNNN T YYYY CR LF** or **STX 00 NNNN T CR LF**  
Activates the message diversion function for extension NNNN. If the estimated time of return YYYY is not specified, default values will be used.
- **STX 01 NNNN CR LF**  
Deactivates the message diversion function for extension NNNN.
- **STX 02 CR LF**  
This is an acknowledgment message - sent in reply to STX 54 CR LF - which means that the interception computer is ready to update the message diversion or message waiting information of the MX-ONE Service Node by sending a number of STX 00 and STX 06 for the extensions concerned. STX 02 can also be received spontaneously if the voice message system requests updating.

- **STX 03 CR LF**  
Updating completed (see STX 02).
- **STX 06 NNNN SS CR LF**  
Indicates that extension NNNN has a message waiting in message system SS.
- **STX 07 NNNN SS CR LF**  
Erases the message waiting indication for extension NNNN and message system SS.
- **STX 08 NNNN XX CR LF**  
Call extension NNNN from a PBX-operator affiliated with terminal XX.
- **STX 98 CR LF**  
Heartbeat check.  
The heartbeat check is sent periodically from the interception computer.

## **3 INTERFACE OUT**

The exit (out) interface from the interception computer is not described in this document because the design of the interface between the interception computer and any terminals or peripheral units will depend on the type or make of the interception computer chosen.

## 4

# OPERATOR INTERFACE

For the reasons stated in 3 Interface Out on page 7, the operator's interface is not dealt with in this document.