

Message Waiting

INTERWORKING DESCRIPTION



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GENERAL

Messaging systems are used to store and send written or recorded messages to and from users connected to a computer via terminals in a network. By connection of the computer to the MX-ONE Service Node (PBX), users of a messaging system can receive notification on their respective telephones that a message exists from some user of the system.

Figure 1 illustrates the connection of a messaging system, for example, a voice mail or message waiting system, to the MX-ONE Service Node.

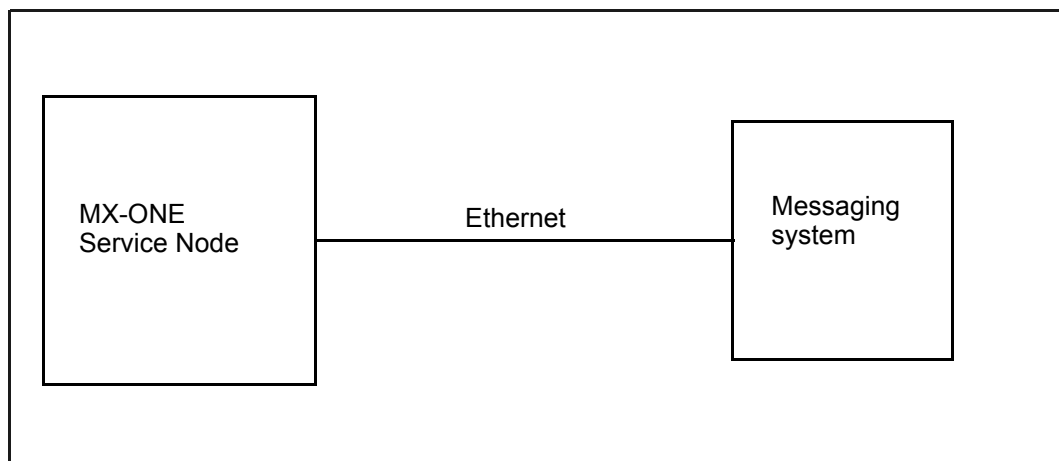


Figure 1: Connection of a messaging system to the MX-ONE.

2 INTERFACE IN

2.1 GENERAL

Up to 16 different messaging systems can be connected directly to the MX-ONE Service Node.

2.2 PROTOCOL

The signals exchanged between the messaging system and MX-ONE Service Node consist of the following parts:

- **STX**
Start of text character.
- **NNNNN**
A 2 to 5-digit directory number in the PBX.
- **SS**
A 2-digit messaging system number defines in which system there is a message waiting for the extension.
Each messaging system has its own, unique, system identity.
02-99 = identity of the messaging system
- **CR**
Carriage Return character
- **LF**
Line Feed character

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

The messaging system shall be capable of accepting the following messages, which are sent **from the MX-ONE Service Node**:

- **STX 54 CR LF**
The PBX requests an update from the messaging system, i.e. indicate message waiting, for relevant extensions.
- **STX 70 NNNNN SS CR LF**
Acknowledgment of message waiting indication from extension NNNNN 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 PBX can accept the following signals **from the messaging system**:

- **STX 02 CR LF**

An acknowledgment to STX 54 CR LF means that the messaging system is ready to update the message waiting information of the MX-ONE Service Node by sending a number of STX 06 for the extensions concerned. STX 02 can also be accepted spontaneously if the messaging system requests an update.

- **STX 03 CR LF**

Updating completed (see STX 02).

- **STX 06 NNNNN SS CR LF**

Indicate that extension NNNNN has a message waiting for him in message system SS.

- **STX 07 NNNNN SS CR LF**

Erase the message waiting indication for extension NNNNN and system SS.

- **STX 98 CR LF**

Heartbeat check.

The heartbeat check is sent periodically from the messaging system.

3 INTERFACE OUT

The interface out from the messaging system is not described in this document because the design of the interface between the messaging system and any terminals or peripheral units will depend on the type/make of messaging system chosen.

4 OPERATOR INTERFACE

For the reasons stated in section Interface out, the data operator's interface is not dealt with in this document.