

Command: RTRV-AO

Message category: Network Maintenance
Application: Add/Drop, Rings

Definition:

Retrieve automatic output generated by the local NE.

Restrictions:

All parameters in this command are position-defined except the *ao_nblk* parameter, which is name-defined. If the NE is a concentrator, CAMR messages are not included in the RTRV-AO output.

Function:

To allow the operating system to retrieve the autonomous messages from the system log with the added capability of specifying a filter using the *ao_nblk* parameter. If no filter is specified, the system performs as if the [RTRV-LOG](#)::::SYSTEM; command string was entered (except that CAMR messages are not output).

Command Format:

RTRV-AO:[tid]::[ctag]::[ao_nblk];

Command Parameters	
PARAMETER	EXPLANATION
[tid]	Identification of the target NE (1...20 characters). The NE SID code is the recommended value. The default value is null.
[ctag]	Correlation tag (1...6 characters) that links an input command with associated output responses. The default is 0.
[ao_nblk]	Named parameter block for automatic output. The block consists of the following parameters in any order, separated by commas. Each parameter name is followed by an equal sign and a valid value. ATAGSEQ= Integral part (1...65535) of the ATAG of the message to be retrieved. Ranging and grouping are allowed. A null entry defaults to the entire sequence.

[ao_nblk](cont)	AUTOTYPE= Type of message to be retrieved. Grouping is allowed. A null entry defaults to the entire log. Valid values are: ALM Alarm DBCHG Database change EVT Event PM Performance monitoring RMV Remove RST Restore SW Switch
	DBCHGSEQ= Database change report sequence (1...999. Ranging is allowed. A null entry defaults to the entire sequence.

Response Format:

Acknowledgment:

If, in less than 2 seconds, a normal or error response cannot be sent, the following acknowledgment response is sent:

IP <ctag>

After the above response, a new command input may be generated.

Normal Response:

```

    sid yy-mm-dd hh:mm:ss
M  c COMPLD
    /* RTRV-AO: [tid] :: [ctag] ::: [ao_nblk] */
    /* autonomous messages */
;
```

Error Response:

```

    sid yy-mm-dd hh:mm:ss
M  c DENY
    /* RTRV-AO: [tid] :: [ctag] ::: [ao_nblk] */
    errcde
;
```

Response Parameters	
PARAMETER	EXPLANATION
sid	Source NE identification
yy-mm-dd	Year (2 digits), month, and day
hh:mm:ss	Hour (00...23), minute, and second
M	Message generated in response to an input command
c	If provided, ctag, otherwise 0
COMPLD	Completed
DENY	Input command is denied

/* */	Enclosed are human readable comments - unspecified format
errcde	Error code (see Appendix C)

Example:

Retrieves all queued or missing autonomous messages of the alarm type.

RTRV-AO:RAL::30:::ATAGSEQ=,AUTOTYPE=ALM;

```

    RAL 99-11-24 00:07:44
M   30 COMPLD
    /* RTRV-AO:RAL::30:::ATAGSEQ=,AUTOTYPE=ALM */
/*

```

```

    RAL 99-06-24 00:01:50
*   17 REPT ALM EQPT
    "DG2-LIFA:MN,PROGVER,NSA:, , , "

```

```

    RAL 99-06-24 00:01:51
*   18 REPT ALM EQPT
    "DG2-LIFB:MN,PROGVER,NSA:, , , "

```

```

    RAL 99-06-24 00:03:28
*   26 REPT ALM COM
    "COM:MN,CONFIG,NSA:, , , "
;

```

Related Commands:

None