

Command: RTRV-SYNCN

Message category: Memory Administration
Application: Add/Drop, Rings

Definition:

Retrieve synchronization.

Restrictions:

All parameters in this command are position-defined except *syncn_nblk* ,which is name-defined.

Function:

To retrieve the clock reference list for the selected clock type.

Command Format:

RTRV-SYNCN:[tid]:aidsyncn:[ctag][:,,,];

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.
aidsyncn	Access identification code that identifies a clock type. The value can be preceded by AID=, but this is not required. Grouping is allowed. Enter one of the following formats, replacing lowercase parameters with the values given: NESYNC NE system timing, both A and B sides BITSSYNC BITS synchronization, both A and B sides BITSSYNCA BITS synchronization, A side only BITSSYNCB BITS synchronization, B side only ALL All of the above
	CUSTDFLT-syncn Customer-defined defaults ALCLDFLT-syncn Alcatel factory defaults where: syncn = NESYNC, BITSSYNC, ALL
[ctag]	Correlation tag (1...6 characters) that links an input command with associated output responses. The default is 0.

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-SYCN: [tid]:aidsyncn: [ctag] [:::,] */
"aidsyncn:: [syncn_nblk]:pst, [sst], [ast] "
;
```

Error Response:

```
sid yy-mm-dd hh:mm:ss
M c DENY
/* RTRV-SYCN: [tid]:aidsyncn: [ctag] [:::,] */
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)
aidsyncn	As described for command parameters except that ALL, BITSSYNC, CUSTDFLT-ALL, and ALCLDFLT-ALL are not used
syncn_nblk	Named parameter block for SYCN. The block consists of the following parameters in any order, separated by commas. Each parameter

	<p>name is followed by an equal sign and a valid value. The same value cannot be used for more than one parameter unless the value is INT or NEREF.</p> <p>PRICREF= Primary timing reference of selected clock type SECCREF= Secondary timing reference of selected clock type THIRDCREF= Third timing reference of selected clock type FOURTHCREF= Fourth timing reference of selected clock type FIFTHCREF= Fifth timing reference of selected clock type</p>
	<p>The values for each of the above are per selection: For NE clock type (aid=NESYNC) SYNCPRI Primary sync - BITS SYNCSEC Secondary sync - BITS LG1 Sync from line group 1 LG2 Sync from line group 2 DG1-n Sync from drop group 1 OC3 or EC1 Facility DG2-n Sync from drop group 2 OC3 or EC1 Facility DG3-n Sync from drop group 3 OC3 or EC1 Facility INT Sync from internal clock where: n = 1...4</p>
	<p>For SYNC clock type (aid=BITSSYNC) LG1 Sync source from line group 1 LG2 Sync source from line group 2 DG1-1 Sync from drop group 1 OC3 Facility DG2-1 Sync from drop group 2 OC3 Facility DG3-1 Sync from drop group 3 OC3 Facility NEREF Use present NE sync as reference</p>
pst	<p>Primary state (condition) of entity. Values are: IS-NR In Service - Normal, Entity can perform all of its designed service function. IS-ANR In Service - Abnormal. Entity can only perform part of its designed service function (for example, due to degradation). OOS-MA-UAS Out of service - Memory Administration - Unassigned. Entity is OOS and has not been assigned/entered into the provisioning data base. OOS-MA-AS Out of service - Memory Administration - Assigned. Entity is OOS and has been assigned/entered into the provisioning data base.</p>
sst	<p>Secondary state of entity. Values are: AINS Automatic In Service (controllable). Automatic transition to in-service is allowed. (For certain types of objects, the circuit packet plugged-in event may cause the object to</p>

	change automatically from MA-AS to an in-service state, provided the object is already assigned with appropriate attributes.) APSI Automatic Protection Switch Inhibited. For a protected entity, it is equivalent to lock-on; for a protecting entity, it is equivalent to lock-out BOOT Processor running boot code
	EQ Equipped
	FLT Fault FRCD Forced MAN Manual MEA Mismatch of Equipment and Attributes
sst (cont)	OVFL Overflow. For the LOG and Database Capture Buffer (DBCB), this indicates that the entity has run out of memory and cannot capture more records PWR Power DX Configuration Duplex SX Configuration Simplex STBY Standby SWDL Software download in progress ACT Active SWVERR Software version error TB Diagnostic Test Busy TSTF Test Failure
	UEQ Unequipped WORK Working PROT Protection
ast	Associated state of entity. Values are: FAF Facility failure (fault in supporting facility)
	FEF Family of equipment failure (supporting equipment has failed or is unequipped)
	UEA Underlying entity abnormal (supporting entity is IS-ANR or OOS)

Example:

Retrieve the clock reference list for the NESYNC.

RTRV-SYNCN:RALGH:NESYNC:55;

RALGH 99-11-24 12:50:30

M 55 COMPLD

/* RTRV-SYNCN:RALGH:NESYNC:55 */

"NESYNC:PRICREF=LG1,SECCREF=DG1-1,THIRDCREF=INT:IS-NR,, "

;

Related Commands:

[ED-SYNCN](#)

[RD-SYNCN](#)

[OPR-SYNCNSW](#)

[RLS-SYNCNSW](#)

[SET-SYNCN](#)

