MAXBUFF - Maximum Buffer Size

For static specification, this parameter is available as a keyword subparameter of the NTRPC macro. For dynamic specification, this parameter is available as a subparameter of the profile parameter RPC.

MAXBUFF can be specified on both the client and the server side.

On the server side, it determines the size of the buffer provided by the server to receive the client request including data and to send back the result. During the execution of the remote CALLNAT, this buffer also contains the PDA passed to the CALLNAT. The buffer must be large enough to hold the largest of the following three data areas for all client requests:

- the request received by the client,
- the internal PDA passed to the CALLNAT,
- the result send back to the client.

On the client side, it determines the size of the buffer provided for the automatic execution of Natural RPC calls. This buffer is used to build the client request including data and to receive the result from the server. The buffer must be large enough to hold the largest of the following two data areas for all requests sent by the client:

- the request send to the server,
- the result received from the server.

For further information, see Stubs and Automatic RPC Execution in the Natural Remote Procedure Call documentation.

The size of the data exchanged between the client and server is provided by the stub generation function of the SYSRPC utility. To calculate the size for automatic RPC execution, you must also use the stub generation function and delete the generated stub afterwards.

Possible settings	0-2097147, but smaller than or equal to RPCSIZE-4	Maximum buffer size in KB. The maximum buffer size must be equal to or less than the value (minus 4) specified with the profile parameter RPCSIZE, for example: RPCSIZE=128 => MAXBUFF =< 124.
Default setting	0	No buffer is allocated.
Dynamic specification	YES	
Specification within session	NO	

In case of an EntireX Broker node, special considerations apply if you are using Entire Net-Work as a transport layer. With Entire Net-Work, the receive buffer length passed to the EntireX Broker stub is restricted by the startup parameter IUBL and must not exceed 32 KB. To be able to use PDAs that are larger than 32 KB the receive buffer length is unbundled from the MAXBUFF setting.

Depending on the setting of the Natural profile parameter ACIVERS, the receive buffer length is set as follows:

- ACIVERS=1: 32000
- ACIVERS=2: 30K
- ACIVERS>2: the value specified with MAXBUFF

With ACIVERS=1 and ACIVERS=2, you can therefore specify a value for MAXBUFF that is not accepted by the EntireX Broker stubs. This may be useful when using input and output fields. In this case, the size of the input data and the size of the output data, each counted separately, may be less than the limit, but the sum of both sizes, which must fit into the buffer, exceeds the limit.

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For further information, see the Natural Remote Procedure Call documentation.