Installation Steps for REQUEST DOCUMENT and PARSE XML

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This document describes the installation steps required to enable the use of the Natural statements `REQUEST DOCUMENT` and `PARSE XML`.

The following topics are covered:

- Platforms Supported
- Prerequisites
- Building the Natural Nucleus
- Building the Natural Front-End
- Installation Verification

See also

- *Statements for Internet and XML Access* in the *Programming Guide*
- `REQUEST DOCUMENT` in the *Statements* documentation
- `PARSE XML` in the *Statements* documentation

Platforms Supported

For a list of mainframe computer platforms on which the Natural statements `REQUEST DOCUMENT` and `PARSE XML` are supported, see the following sections in *Statements for Internet and XML Access* in the Natural *Programming Guide*.

- *Platform Support for REQUEST DOCUMENT*
- *Platform Support for PARSE XML*

Prerequisites

See *General Prerequisites, Installation Prerequisites* in the section *Statements for Internet and XML Access* in the Natural *Programming Guide*

Building the Natural Nucleus

The runtime for the statements `REQUEST DOCUMENT` and `PARSE XML` is provided in the module `NATXML`.

To enable the runtime, the module NATXML has to be linked to the Natural shared nucleus.

For further information, refer to the appropriate installation step of your environment.

Building the Natural Front-End

- Preliminary Remarks
- Linking the Natural Front-End Modules

Preliminary Remarks

Concerning all batch and TP-system drivers besides Com-plete on z/OS, z/VSE and VM/CMS

- The Natural batch and TP monitor system drivers have to be installed LE enabled, that is, the parameter LE370 must be set to YES. Refer to the corresponding part of the Natural documentation for your specific environment.

Concerning BS2000/OSD

- The keyword parameter ILCS of macro NAMTIAM must be set to the value CRTE in the assembly step of the reentrant part of the TIAM driver.
- The keyword parameter ILCS of macro NAMBS2 must be set to the value CRTE in the assembly step of the reentrant parts of the batch driver.
- The keyword parameter ILCS of macro NURENT must be set to the value CRTE in the assembly step of the reentrant part of the UTM driver.

Linking the Natural Front-End Modules

Under z/OS:

Batch and TSO	Add INCLUDEs for the modules NAT2LE and NAT2TCP to the link step of the Natural front-end module. Resolve unresolved external references from the LE library (usually hlq.SCEELKED), that is, add this library to the SYSLIB definition of your link job and do *not* specify the NCAL parameter for the link.
CICS	Add an INCLUDE for the CICS socket module EZACIC17 contained in the CICS socket library (usually hlq.SEZARNT1, hlq.SEZATCP or hlq.SEZACMTX). Resolve unresolved external references from the CICS socket library and the current LE library (usually hlq.SCEELKED), that is, add these libraries to the SYSLIB definition of your link job and do *not* specify the NCAL parameter for the link. Configure the CICS TCP/IP environment as described in the IP CICS Socket Guide by IBM.
Com-plete	Link the module NAT2LE to the Natural Com-plete front-end module. Copy the module NCFTCP42 to the Com-plete load library. The TCPIP CDI driver and the POSIX SERVER statement in the Com-plete parameter module SYSPARM are required.
IMS TM	Add INCLUDEs for the modules NAT2LE and NAT2TCP to the link step of all NII front-end modules. Resolve unresolved external references from the LE library (usually hlq.SCEELKED), that is, add this library to the SYSLIB definition of your link job and do not specify the NCAL parameter for the link.

Under z/VSE:

Batch and CICS	Add INCLUDEs for the modules NAT2LE and NAT2TCP to the link steps of the batch front-end module and the NCI front-end module. Resolve unresolved external references from the LE library (usually PRD2.SCEEBASE), that is, add this library to the OBJ-SEARCH definition of your link job and do *not* specify the NOAUTO parameter in the ACTION statement for the link.
Com-plete/NDV-SMARTS	Link the module NAT2LE to the Natural Com-plete front-end module. Copy the phase NCFTCP42 to the Com-plete/SMARTS load-library. The TCPIP CDI driver and the POSIX SERVER statement in the Com-plete parameter module SYSPARM are required.

Under VM/CMS:

VM/CMS	Xedit `NAT$LOAD EXEC` and append `NAT2LE` and `NAT2TCP` to the variable `loadlist`. For enabling the access to TCP/IP, refer to *Using TCP/IP Communication* in the *Operations* documentation.

Under BS2000/OSD:

Batch, TIAM and *open*UTM	Add `INCLUDE`s for the module `NAT2LE` and the LLM `NAT2TCP` to the front-end link steps for batch mode and TIAM. Add an `INCLUDE` for the CRTE initialization routine `IT0SL#`, if `IT0SL#` is not already included into the front-end module. Add a `RESOLVE-BY-AUTOLINK LIB=($TSOS.SYSLNK.CRTE)` statement to the link step for the Natural front-end module. **Note:** Since `NAT2TCP` is delivered in LLM format, the front-end has to be linked with the binder!
NDV	The `REQUEST DOCUMENT` statement is not currently supported by the Natural Development Server for BS2000/OSD.

Installation Verification

Activate the statements in the runtime environment; see *Activation/Deactivation* in *General Prerequisites* in the section *Statements for Internet and XML Access* in the Natural *Programming Guide*.

Try the sample programs contained in library `SYSEXV`.

For information on profile settings to enable the support of the `REQUEST DOCUMENT` and/or `PARSE XML` statement, see the following documents:

- *Profile Settings* in *General Prerequisites* in the section *Statements for Internet and XML Access* in the Natural *Programming Guide*
- Profile parameter `XML` in the *Parameter Reference* documentation