

# Web Interface Administration

This section covers the following topics:

- Set the Size of the Return-Page Transport Buffer
  - Set the Size of the Return Page
  - Create a User-defined Error Page
  - Create a User-defined Error Page XML-Style
  - Alphanumeric-to-HTML Conversion
  - Alphanumeric-to-URL Conversion
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## Set the Size of the Return-Page Transport Buffer

### Changing the Transport Send Buffer Width

To change the transport send buffer width:

1. Change the upper bound of the variable RETURN\_PAGE in the parameter data area W3PARAM. Use this value for the parameter NWW\_INOUT\_LENGTH in the initialization file used for the Natural Web Server Extension program and the initialization of the value ##HTTP\_RETURN\_PAGE\_PART in the Local Data Area W3LIMITS.  
This defines the maximum length of the transport buffer.
2. Recatalog all W3\* sources from library SYSWEB.
3. Recatalog all subprograms that are to be called using the Natural Web Server Extension, all NAT-\*, HTTP\* and NAT-\* programs from the library SYSWEB.

### Changing the Received Data Buffer Width

To change the received data buffer width:

1. Change the upper bound of the variable ##HTTP\_ENVIRONMENT\_BLOCK (divided by 250) in the local data area W3CONTEX and of variable ENVIRONMENT in the parameter data area W3PARAM to the same value.
2. Use this value to initialize ##HTTP\_ENVIRONMENT\_MAX in the local data area W3LIMITS.  
This defines the maximum length of received data.  
This value must be less than or equal to the maximum length of the transport buffer (see Step 1).
3. Recatalog all W3\* sources from the library SYSWEB.
4. Recatalog all subprograms which are to be called using the Natural Web Server Extension, all NAT-\*, HTTP\* and NAT-\* programs from library SYSWEB.

### Changing Your Return Page

To change your return page:

1. Change the upper bound of ##HTTP\_RETURN\_BLOCK (divided by 250) and ##HTTP\_RETURN\_PAGE in the local data area W3CONTEX and use this value to initialize ##HTTP\_RETURN\_PAGE\_MAX in the local data area W3LIMITS.
2. Recatalog all W3\* sources from library SYSWEB.
3. Recatalog all subprograms that are to be called using the Natural Web Server Extension, all NAT-\*, HTTP\* and NAT-\* programs from the library SYSWEB.

## Set the Size of the Return Page

To change the amount of the data transferred between the HTTP server and Natural:

1. Change the upper bound of the variable `##HTTP_RETURN_PAGE` in the **global data area** `W3GLOB`, of variable `RETURN_PAGE` in the **parameter data area** `W3PARM` and of parameter `RPC_INOUT_LENGTH` in the initialization file of the **Natural Web Server Extension program** used to the same value. This defines the maximum length of a generated page.
2. Change the upper bound of the variable `##HTTP_ENVIRONMENT` in the **global data area** `W3GLOB` and of the variable `ENVIRONMENT` in the **parameter data area** `W3PARM` to the same value. This defines the maximum length of data received. This value must be less or equal than the maximum length of a generated page (see step 1).
3. Recatalog `W3GLOB`, `W3PARM` and `W3ACCESS` from the library `SYSWEB`. (`W3ACCESS` encapsulates all calls to the `W3GLOB`).
4. Recatalog all subprograms which are to be called via the Natural Web Server Extension, all `NAT-*` and `HTTP*` programs from the library `SYSWEB` and all `NAT-*` and `E3*` subprograms from library `SYSWEB`.

## Create a User-Defined Error Page

If a Natural error occurs and the default `ON ERROR` block is specified, `W3ERROR` will be called and a predefined error page will be generated.

If you want to change this error page, change the Subroutine `W3ERROR-TEMPLATE` (`SYSWEB/W3ERRTMP`).

This program generates a complete HTML page.

## Create a User-Defined Error Page XML-Style

If a Natural error occurs and the default `ON ERROR` block is specified, `W3ERROR` will be called and a predefined error page will be generated.

If you want to change this error page to an XML-conform HTML, proceed as follows:

1. Uncatalog the subroutine (`SYSWEB/W3ERRTMP`).
2. Open the subroutine `SYSWEB/W3ERXTMP`.
3. Rename `W3ERROR-TEMPLATE-XML` to `W3ERROR-TEMPLATE`.
4. Stow the program.

This program now generates a complete XML-conform HTML page.

## Alphanumeric-to-HTML Conversion

For a conversion to HTML, special characters have to be replaced by the correct HTML representation.

- The subroutine `W3-ASCII-HTML-TABLE` (`SYSWEBP/W3AS2HT`) contains the settings for the replacement of characters.
- `W3INIT` and `H3-TEXT-TO-HTML` will call `W3-ASCII-HTML-TABLE`.

The generated table is saved in the global data area `W3GLOB` for faster access. It is possible to save up to 128 replacements.

If HEX values are used for the definition (e.g. quote), a value for the ASCII and one for the EBCDIC character set has to be defined. Otherwise the file is not portable.

## Alphanumeric-to-URL Conversion

For URL decoding, some special characters have to be replaced by the correct URL-conform representations.

- The subroutine H3-ASCII-URL-TABLE(SYSWEB/H3AS3URL) contains the settings for the replacement of characters.
- H3-ASCII-URL-TABLE will be called by H3-TEXT-TO-URL.

It is possible to save up to 128 replacements.

If HEX values are used for the definition (e.g. quote), a value for the ASCII and one for the EBCDIC character set has to be defined. Otherwise the file is not portable.