

# Software AG Product Testing on the IBM zEnterprise 196 (z196)

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## Overview

The objective of this project was to ensure that our Software AG products that run on IBM System z under z/OS had no problems running on this new IBM zEnterprise 196 (z196). Of course another objective was to inform our customers that we have tested on this new IBM zEnterprise server and are confident of no problems associated with this new hardware based upon our initial testing.

As part of this project, we decided to use a current IBM GA operating system which was IBM z/OS 11 with current maintenance levels applied which will be described below in another section of this document.

We also decided in most cases to test the most current Software AG product version and also the previous level of our product on this IBM z196 under z/OS 11.

We also decided that we would test our products under the key IBM subsystem environments on the IBM z196 which were IBM CICS TS and IBM DB2.

We also decided to test our products that interfaced with IBM JES2 during our test period on the IBM z196 under z/OS 11.

We did not test on EAV volumes during this specific test period on the IBM z196. However, our testing of EAV volumes is covered in another document that can be found on the [www.softwareag.com/ibm](http://www.softwareag.com/ibm) webpage.

We also did some testing of our product Entire Net-work using loop back CTC connections of both an ESCON type and an FICON type.

**Note: Another reason for not testing IBM Extended Address Volumes was that there is new functionality that will be introduced in z/OS 12 GA that we require for some of our products to exploit the EAV support. Please consult the website [www.softwareag.com/ibm](http://www.softwareag.com/ibm)**

## **IBM Software Environment for the IBM zEnterprise 196 (z196)**

As stated previously, we were running on IBM z/OS 11 GA at the software level of RSU1004/PUT1003 for this specific testing project on the z196.

As mentioned above, we were using IBM CICS TS V3.2 and IBM DB2 V8 which were at the levels of PUT1003 and IBM DB2 V8 RSU1005/PUT1003.

## **IBM Hardware Environment for the IBM zEnterprise 196 (z196)**

In this environment, we were running in an LPAR with 5 shared processors.

For the purposes of our product testing, we had a loop back set of FICON CTC's and ESCON CTC's that we could use to test our product, Entire Net-work.

## Software AG Products Tested on the IBM zEnterprise 196 (z196)

| Product                  | Family     | Product Code     | Applicable Comments | Environment(s) |
|--------------------------|------------|------------------|---------------------|----------------|
| Adabas                   | ADA<br>ADA | ADA814<br>ACI814 | Tested              | 1,2,4,5,6      |
| Adabas                   | ADA<br>ADA | ADA822<br>ACI822 | Tested              | 1,2,4,5,6      |
| Adabas Bridge for VSAM   | ADA        | AVB511           | Tested              | 1,2            |
| Adabas Caching Facility  | ADA        | ACF814           | Tested              | 6-ADA          |
| Adabas Caching Facility  | ADA        | ACF822           | Tested              | 6-ADA          |
| Adabas Core              | ADA        | COR812           | Tested              | 2,4,5,6        |
| Adabas Fastpath          | ADA        | AFP812           | Tested              | 2,4,5          |
| Adabas Online Services   | ADA        | AOS814           | Tested              | 2,4,5          |
| Adabas Online Services   | ADA        | AOS822           | Tested              | 2,4,5          |
| Adabas Parallel Services | ADA        | ASM813           | Tested              | 2              |
| Adabas Parallel Services | ADA        | ASM822           | Tested              | 2              |
| Adabas Review            | ADA        | REV451           | Tested              | 1,2,4,5,6-HUB  |
| Adabas Review            | ADA        | REV452           | Tested              | 1,2,4,5,6-HUB  |
| Adabas SAF Security      | ADA        | AAF812           | Tested              | 2,4,5          |
| Adabas SQL Gateway       | ADA        | ACE664           | Not tested yet      |                |
| Adabas Transaction Mgr   | ADA        | ATM712           | Tested              | 2              |
| Adabas Vista             | ADA        | AVI812           | Tested              | 2,4,5          |
| Event Replicator         | ADA        | ARF321           | Tested              | 5,6            |
| Event Replicator         | ADA        | ARF311           | Tested              | 5,6            |

## Software AG Products Tested on the IBM zEnterprise 196 (z196) - Continued

| Product                       | Family | Product Code | Comments | Applicable Environment(s) |
|-------------------------------|--------|--------------|----------|---------------------------|
| Com-plete                     | NAT    | COM661       | Tested   | 6                         |
| Entire Net-work               | ADA    | WCP621       | Tested   | 6-WCP                     |
|                               |        | WCC621       | Tested   | 6-WCP                     |
|                               |        | WTC621       | Tested   | 6-WCP                     |
| Entire System Server          | NAT    | NPR341       | Tested   | 2,4,5,6-XCOM              |
| Entire System Server          | NAT    | NPR342       | Tested   | 2,4,5,6-XCOM              |
| Entire System Server          | NAT    | NPR351       | Tested   | 2,4,5,6-XCOM              |
| EntireX                       | EXX    | EXX810       | Tested   | 2,4,5,6                   |
| Natural                       | NAT    | NAT425       | Tested   | 1,2,3,4,5                 |
|                               | NAT    | NCF425       | Tested   | 5                         |
|                               | NAT    | NCI425       | Tested   | 2                         |
|                               | NAT    | NDB425       | Tested   | 1,2,3,4,5                 |
|                               | NAT    | NDV225       | Tested   | 6-NDV                     |
|                               | NAT    | NTC425       | Tested   | 4                         |
|                               | NAT    | NVS425       | Tested   | 1,2,4,5                   |
| Natural<br><b>See Note #1</b> | NAT    | NAT426       | Tested   | 1,2,3,4,5                 |
|                               | NAT    | NCF426       | Tested   | 5                         |
|                               | NAT    | NCI426       | Tested   | 2                         |
|                               | NAT    | NDB426       | Tested   | 1,2,3,4,5                 |
|                               | NAT    | NDV226       | Tested   | 6-NDV                     |
|                               | NAT    | NTC426       | Tested   | 4                         |
|                               | NAT    | NVS426       | Tested   | 1,2,4,5                   |

Description: S0C4 in the Natural Development Server

**Note #1 – Fix required INS.NDV226.ALLIS04 (Updated INPL File)**

## **Applicable Testing Environments on the IBM zEnterprise 196 (z196)**

1. IBM z/OS Batch environment
2. IBM z/OS CICS TS environment
3. IBM z/OS DB2
4. IBM z/OS TSO environment
5. Software AG Com-plete (TP Monitor) environment
6. IBM z/OS Server address space environment

## Software AG Product Maintenance Levels

| Product Code | Level  | Maintenance Levels                           |
|--------------|--------|--|
| ADA          | V8.1.4 | AI814023<br>AN814139<br>AO814022<br>AU814037 |
| ADA          | V8.2.2 | AI822012<br>AN822091<br>AO822019<br>AU822031 |
| ACF          | V8.1.4 | AH814002                                     |
| ACF          | V8.2.2 | AH822001                                     |
| AFP          | V8.1.2 | AW812051                                     |
| ARF          | V3.1.1 | AZ311090                                     |
| ARF          | V3.2.1 | AZ321018                                     |
| ATM          | V8.1.2 | AT812005                                     |
| AVB          | V5.1.1 | BV511086                                     |
| AVI          | V8.1.2 | AV812020                                     |
| COM          | V6.6.1 | L005, APS331 L007, HTP261 L003               |
| COR          | V8.1.2 | MO82006<br>MI812065                          |
| EXX          | V8.1.1 | L010   |
| NPR          | V3.4.1 | XC71043                                      |
| NPR          | V3.4.2 | XC72044                                      |
| NPR          | V3.5.1 | No zaps applied – New Release                |
| REV          | V4.5.1 | RD451036                                     |

## Software AG Product Maintenance Levels

| <b>Product Code</b> | <b>Level</b> | <b>Maintenance Levels</b> |
|---------------------|--------------|---------------------------|
| REV                 | V4.5.2       |                           |
| NAT                 | V4.2.5       | NA75215 – Fix Level 012   |
| NAT                 | V4.2.6       | NA76076 – Fix Level 010   |
| WCP                 | V6.2.1       | WO621014 + WM621022       |
| WCC                 | V6.2.1       | WK621006                  |
| WTC                 | V6.2.1       | WT621009                  |

## **Summary**

During the period of our testing, we did not see any problems that are associated with our testing on this new IBM zEnterprise 196 hardware.

Also to mention, we have not run any performance tests on this system and have not compared it to previous models of IBM System z hardware.