



U.S. Department
Of Transportation

**Federal Highway
Administration**

Memorandum

6300 Georgetown Pike
McLean, Virginia 22101

Subject: **ACTION:** LTPP Directive IMS-114
IMS Software Release Version 2004.03

Date: March 16, 2004

From: Eric Weaver 
Long Term Pavement Performance Team

Reply to
Attn of: HRDI-13

To: Dr. Frank Meyer, PM - LTPP North Atlantic Regional Contract
Dr. Frank Meyer, PM - LTPP North Central Regional Contract
Mr. Mark Gardner, PM - LTPP Southern Regional Contract
Mr. Kevin Senn, PM - LTPP Western Regional Contract

Attached is the Long Term Pavement Performance (LTPP) Program directive IMS-114: Software Release Version 2004.03. This pertains to implementation of the IMS software upgrade from version 2003.11 to 2004.03. IMS upgrade instructions are provided in attachment 1. Please ensure that all personnel involved with the IMS are aware of this new directive.

Should you have any questions or would like to discuss this directive, please do not hesitate to contact me at 202-493-3153.

Attachments (2)



LONG TERM PAVEMENT PERFORMANCE PROGRAM DIRECTIVE



For the Technical Direction of the LTPP Program

Program Area: IMS

Directive Number: I-114

Date: March 16, 2004

Supersedes: I-111

Subject: IMS Software Release Version 2004.03

This directive authorizes implementation of the IMS software upgrade from version 2003.11 to 2004.03. Upgrade instructions are provided in Attachment 1. The upgrade shall be completed by March 23, 2004.

Software change notice 86, contained in the attached file SCN_86.pdf, lists all of the changes made to the IMS software since the last software release. This notice shall be filed in the Operator's Log. This release contains new tables and programs to support entry of Ground Penetrating Radar (GPR) data, SMP TDR Manual Moisture data, and Unbound Specific Gravity data. In addition, SPR resolutions are included. Please read the software change notice carefully to assess impacts on database operations.

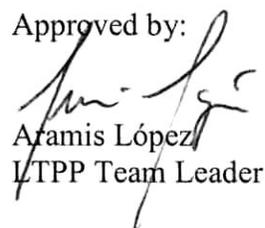
Instructions on populating the new tables will be discussed during a future teleconference.

The upgrade file for release 2004.03 of the IMS software is available from the "Operations Center" link on the TSSC web site (www.ltp.org). Contact the TSSC for user name and password. Download ReleaseVR2004_03.zip containing the following files:

- VR2004_03.ZIP – A zip file with the batch file (VR2004_03.BAT) and scripts needed to make miscellaneous updates to the database and to run other related administrative commands. Refer to the table included in Attachment 1 for a complete list and descriptions of the scripts called by this batch file.
- LTPP.ZIP - A zip file with all files to go in the LTPP area (and subdirectories) on the server.
- OracleVersions.ZIP – A zip file with listings of all Oracle files and versions loaded on the server at the central site. These are included for reference only.

Prepared by: TSSC

Approved by:


Aramis López
LTPP Team Leader

Attachment 1

Instructions to Apply VR 2004.03 Release

1. Shutdown the Data Extraction Service.
2. Shutdown ORACLE in normal mode and backup Server.
3. Bring ORACLE up.
4. Create the subdirectory RELEASES\VR2004_03 (the directory RELEASES should already exist).
5. After downloading and unzipping the ReleaseVR2004_03.zip file, copy and unzip the VR2004_03.ZIP file to the RELEASES\VR2004_03 subdirectory created in step 4.
6. From a DOS prompt in the RELEASES\VR2004_03 directory, type


```
VR2004_03 dbusername/dbapassword@instance
```


to begin the software update. This batch file will run the miscellaneous scripts listed in table 1, below.
7. The scripts make some table changes. Check that all scripts completed successfully by reviewing all *.lis files (refer to list, below). Ignore errors about dropping non-existent objects.
8. Copy the LTPP.ZIP file into the LTPP subdirectory. Right-click on the filename and choose "Extract to Here" to unzip the file into the LTPP subdirectory. Answer "Yes to all" to overwrite existing files. Delete the LTPP.ZIP file.
9. The OracleVersions.zip file is included for reference only. Extract these files into the OracleVersions directory. It will create an OracleVersions\VR200403 subdirectory.

Table 1. Scripts run from the VR2004_03.bat file .

Script filename	Description	Output file
CreateUnboundSpecGravTable	Creates new P46 Specific Gravity table, related constraints and data dictionary entries.	CreateUnboundSpecGravTable.lis
CreateSmpTdrManualMoisture	Creates new SMP TDR Manual Moisture table and related data dictionary entries.	CreateSmpTdrManualMoisture.lis
CreateGPRTablespace	Creates new GPR tablespaces.	CreateGPRTablespace.lis
CreateGPRTables	Creates new Ground Penetrating Radar tables, related constraints, codes, and data dictionary entries.	CreateGPRTables.lis

Script filename	Description	Output file
SPR3390	Add lab code for AGRA Earth & Environment, Alberta, CA, 8131.	SPR3390.lis
SPR3404and3407	Add ON DELETE triggers to the PGBinder tables to ensure that orphans are not left in the TST_LINK_SAMPLE and TST_LINK_LAYER table when the last data record for a TST_ID is removed.	SPR3404and3407.lis
SPR3406	This script updates the units in the data dictionary for the penetration fields in the TST_AE02 table.	SPR3406.lis
SPR3410and3411	Add lab code for TN and GA DOTs, 4721 and 1321, respectively.	SPR3410and3411.lis
SPR3420	Add new TEST_NO codes to the CODES.	SPR3420.lis
SPR3422	Updates all STATION_NO records in the data dictionary with the units of feet.	SPR3422.lis
SPR3423	Add lab code for OR DOT, 4121.	SPR3423.lis