C1: Archiving Solution With WPG

Overview



Objectives

Reasons to archive
Describe bundled archive solution
Describe custom archive solution
Video Demonstration

Why Archive?

Performance
Security
Compliance
Non-repudiation

Bundled Solution

imitations

- Incomplete archive steps
- Manual steps required for daily operation
- Complex configuration and usage
- Archive dates inflexible

Custom Solution

dvantages

- Additional archive steps performed
- Directory cleanup
- Callable by shell script or command line
- Simple configuration and usage
- Archive dates are specified as elapsed days

Custom Solution (2)

esign

- Java console application extension to WPG
- Source code available
- Supports DB2 (future support for Oracle)
- Utilizes some open-source components
- Compatible with Advanced and Enterprise
- Available for all supported OS

Project Walk-Thru

oject

- Written for Java 1.4 JVM
- Utilizes ANT build scripts
- Easily importable to WSAD, Eclipse or other IDEs

Project Walk-Thru(2)

raries

- jargs For processing of command line
- log4j For logging functions
- ant For building project
- db2 For accessing database (bundled with WPG)

Project Walk-Thru(3)

asses

- Main.java Command line interface
- Archive.java Performs archive steps
- Config.java Holds configuration information

Project Walk-Thru(4)

uilding - Ant Targets

- clean Erase all generated files
- deploy Create distribution
- updateversion Increment build number (TBA)

Project Walk-Thru(5)

eployment Files

- jargs.jar, log4j-1.2.8.jar Library files
- log4j.properties Log4j configuration
- README End user instructions
- WPGArchive.cmd Windows Script
- WPGArchive.sh UNIX Script
- WPGArchive.zip Archive classes

Deployment

teps

- Create a new directory in WPG Installation
- Copy all deployment files to this directory
- Prepare command line options
- Execute batch file to begin archive process
- Optionally run as cron or timed task

Archive Steps

Read LG_MSG_ARCHIVE table for files to archive from th non_rep and msg_store directories.

Create a Zip and index on files to be archived

Delete original files

Remove records from LG_MSG_ARCHIVE and LG_CERT_ARCHIVE

Archive Steps (2)

Execute the AR_STATEENGINE_MAINTENANCE stored procedure

Execute the AR_SUMMARY_MAINTENANCE stored procedure

Execute the AR_PURGE_HEADERS stored procedure

Remove records from BP_SPONSOR_STATE, BP_DUPCHECK, BP_RNMSGDIGEST and BP_PROCESS_LOG tables. Archive Steps (3) Remove records from the LG_DELIVERY_LOG, LG_DM_DOC_LOCK, LG_MSG_ARCHIVE and LG_VTP_STATUS tables.

Remove files and prune directories from {WPG_Common}\data\Inbound\bpeResend directory

Remove files and prune directories from {WPG_Common}\data\Inbound\process directory

Remove files and prune directories from {WPG_Common}\data\Inbound\reject directory

Archive Steps (4)

Remove files and prune directories from {WPG_Common}\data\Inbound\serialize directory

Remove files and prune directories from {WPG_Common}\gateways directory

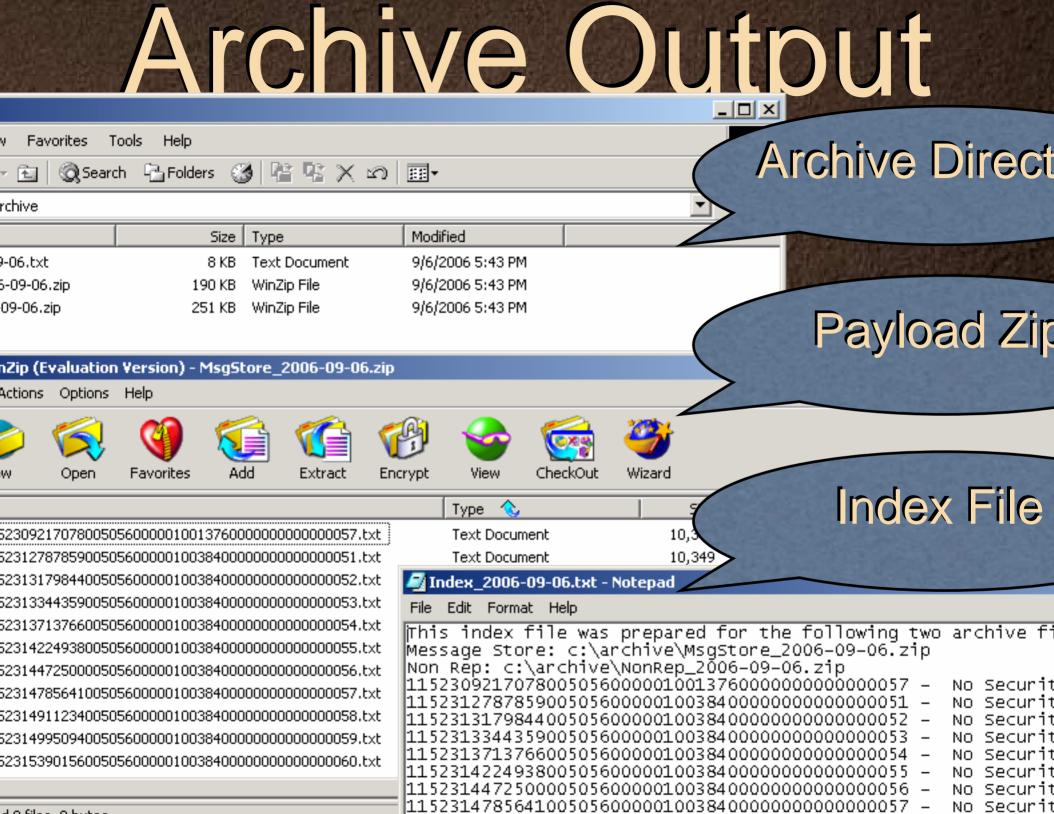
Remove files and prune directories from {WPG_Common}\sync_in directory

Remove files and prune directories from {WPG_Common}\signal_in directory

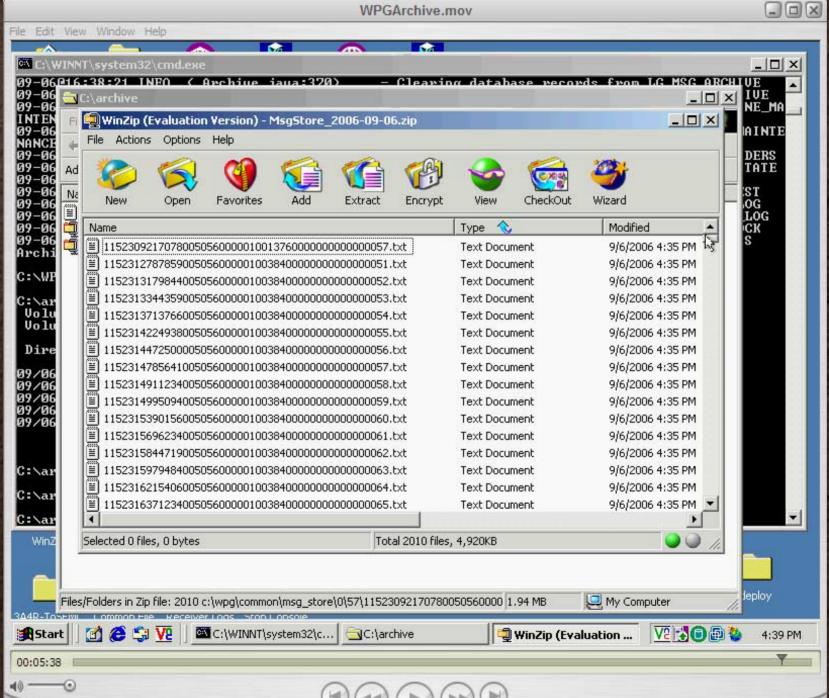
Archive Steps (5)

Remove files and prune directories from {WPG_Common}\msg_store\0 directory

Remove files and prune directories from {WPG_Common}\non_rep\0 directory



Demonstration



Thank You

Steven Koehler IT Architect SKoehler@us.ibm.com