

AppsRules Suite

Patch Installation Guide

Software Version 6.5

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Logical Apps
15420 Laguna Canyon, Suite 150
Irvine, CA 92618
949.453.9101

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AppsRules Patch Installation Overview

The AppsRules Suite version 6.5 is a set of five integrated applications that work with Oracle Applications to define business processes, enhance security, and safeguard data integrity. The Suite consists of AppsForm, AppsFlow, AppsAudit, AppsControl, and AppsAccess. These applications are installed on the database and forms servers on which Oracle Applications run.

From time to time, Logical Apps issues software patches that resolve issues concerning the performance of the AppsRules applications. A patch may consist of files to be installed on the database server, files to be installed on the forms server, or both.

Logical Apps provides two comprehensive Installer programs that place patch files on the database and forms servers. Each installs files not only for the current patch, but also for any prior patches for a given release.

Each Installer may be run in either of two modes:

- **GUI:** The Installer presents a series of windows that prompt you to provide information necessary for the installation. Each window also provides access to a help file. As you progress through the windows, you can return to windows you had completed earlier in order to review or change the entries in them. (The Installer retains any entry you don't change, even if you return to a step earlier than the one in which such an entry was made.) GUI mode is the default.
- **Console:** The Installer presents a series of command prompts in a UNIX console, in response to which you provide information necessary for the installation.

Console mode prompts for the same information as GUI mode, but does not enable you to return to earlier prompts and does not provide help screens.

To run each Installer program, execute a file — `lapatchdb.bin` or `lapatchfrm.bin` — at the UNIX command prompt of the database server or forms server, respectively. The name alone launches an Installer in GUI mode; the name along with the argument `-i console` launches an Installer in console mode. A patch may contain only one of these files, indicating that installation is necessary only on its corresponding server. Or the patch may contain both, indicating that installations are necessary on both servers, database first and forms second.

Preparatory Procedures

Before installing an AppsRules patch, be certain you meet the following requirements:

- Ensure that you have already installed the AppsRules base release for which the patch is intended. *Release Notes* for the patch identify the base release.
- Grant these APPS schema objects the select privilege to the Logical Apps schema (typically `XXLAAPPS`):

- `FND_FILE` — Package Spec and Body
- `FND_PROFILE` — Package Spec and Body

- Confirm Java is in your path. Type the following at the UNIX command prompt:
`which java`
- Verify that you use Java version 1.3 or higher. Type the following at the UNIX command prompt:

```
java - version
```

If more than one copy of Java exists on your system, verify the version on the copy in the `opt` directory (for example, `/usr/opt1.3/bin/java`).

- Ensure that the Oracle Advanced Security product is installed. (Logical Apps uses `DBMS_Obfuscation` for encrypting the password.) Type the following at the UNIX command prompt:

```
adapters
```

Look for Oracle Security Server Authentication Adapter among the return values.

- Each of your database server, forms server, and concurrent manager server may run on its own host machine. If so, complete the following tasks to confirm that the host machines communicate properly:
 - Send a file via FTP from the database server to the concurrent manager server, and from the concurrent manager server to the forms server.
 - Perform a remote execution of the shell file, by any of the following methods: Enable rsh (remote shell), enable ssh (secured shell), have a common mount point, manual.

Installing an AppsRules Patch

To begin the installation process, download the file LAPATCH.zip to a temporary directory on your local system from the FTP site provided by Logical Apps. Extract its contents — lapatchdb.bin, lapatchfrm.bin, or both. If the zip file contains only lapatchdb.bin, you perform an installation on the database server. If it contains only lapatchfrm.bin, you perform an installation on the forms server. If it contains both files, you install on both servers, database before forms.

Installing Database Server Components

To install database server components of an AppsRules patch:

- 1** Transfer the lapatchdb.bin file to the database server, via FTP in binary mode. Use the applmgr account.
- 2** Use applmgr to log in to the database server. Ensure that the user (login ID) has write and read privileges on \$APPL_TOP.
- 3** Execute the environment file, if it is not included in the profile:

```
$. $APPL_TOP/$APPLFENV
```
- 4** Set the execute permission on lapatchdb:

```
$. chmod +x lapatchdb.bin
```
- 5** Execute lapatchdb.bin. Use the file name alone to run the Installer in GUI mode; add the argument *-i console* to run the Installer in console mode.

As noted earlier, the Installer's GUI and console modes prompt for the same information. If you choose GUI mode (as shown in the following procedure for using the installer), you can perform these operations in each of the windows:

- Review a brief description of the information you need to provide.
- Click on the Help button to open a window that provides a more expansive description of the information you need to provide. (After you review this information, click on the Close button to exit the Help window.)
- Type installation information in the labeled text boxes (or accept default values).
- When you complete one window, click on the Next button to move from it to the next window.
- Click the Previous button if you wish to return to a window you completed earlier.
- Note that the titles of the windows you are to complete appear in a column along the left of each window. Those yet to be completed are shown in grey; windows that have been completed are shown in black.

To complete the database server installation:

- 1 Specify a staging directory — a temporary location for source files:



The Installer suggests a default directory; its name is a timestamp for the moment you perform the installation, with *DB* (for database). If you wish to select another directory, click the Choose button and, in a Select a Folder window, navigate to the directory you want. If you specify a nonexistent directory, the Installer creates that directory. If you navigate away from the default directory and want to return to it, click on the Restore Default Folder button.

- 2 Verify the default values for the host name, SID (service identifier) and network port of the Oracle Applications database server, which the Installer takes from the shell environment. If the defaults are not correct, enter correct values (ensuring they are the same as the values selected for the original AppsRules installation).

The screenshot shows the 'LogicalApps Database Install' wizard window. The title bar reads 'LogicalApps Database Install' and the top right corner says 'Database Host'. On the left, a tree view shows the following steps: License Key (checked), Staging (checked), Database Host (selected), Database Schema, Application TDP, Environment, Input Summary, Installing..., and Install. The main area contains the following text: 'Specify the database host name, service SID, and TNS port of the database in which Logical Apps applications are to be installed.' Below this are three input fields: 'Database Host Name' with the value 'mammoth,whq.logicalapps.com', 'SID' with the value 'visdb', and 'Port' with the value '1521'. At the bottom, there are buttons for 'Cancel', 'Help', 'Previous', and 'Next', and a footer that reads 'InstallAnywhere by Zero G'.

- 3 Supply log-on values for the Logical Apps and Oracle Applications (APPS) schemas:

The screenshot shows the 'LogicalApps Database Install' wizard window. The title bar reads 'LogicalApps Database Install' and the top right corner says 'Database Schema'. On the left, the tree view shows: License Key (checked), Staging (checked), Database Host (checked), Database Schema (selected), Application TDP, Environment, Input Summary, Installing..., and Install. The main area contains the following text: 'Supply credentials for the Logical Apps schema and APPS schema. It is strongly recommended that you use the name XXLAAPPS for the Logical Apps schema.' Below this are four input fields: 'LogicalApps Schema' with the value 'XXLAAPPS', 'Password' (empty), 'Oracle APPS Schema Password' (empty), and 'Index Table Space' (empty). At the bottom, there are buttons for 'Cancel', 'Help', 'Previous', and 'Next', and a footer that reads 'InstallAnywhere by Zero G'.

Logical Apps recommends the creation of a dedicated schema called XXLAAPPS, and the Installer provides this name by default. However, you must duplicate the

name entered during the original AppsRules installation. If the default was accepted then, accept it again now; if the default was modified then, provide the same modified name now. Also, provide the same values as were provided during the original installation for the Logical Apps and Oracle APPS schema passwords and the name of the tablespace for indexes used by Logical Apps database objects.

- 4 Establish the Logical Apps TOP — the high-level directory for the storage of AppsRules files. Specify a directory that is the parent of the Logical Apps TOP and an application short name that is appended to the parent directory to form the Logical Apps TOP directory.



The Installer selects default values — the Oracle Applications TOP as the parent directory and XXLAAPPS as the application short name. Again, however, you must duplicate the values entered during the original AppsRules installation. If default values were accepted then, accept them again now; if default values were changed then, make the same changes now.

(To select another parent directory, click on the Choose button and, in a Select a Folder window, navigate to the directory you want. If you enter the name of a nonexistent directory, the Installer creates that directory. To return to the default directory, click the Restore Default button.)

- 5 Review your selections in the Input Summary form (shown at the top of the next page).

If you determine that any of the entries is inappropriate, you can click on the Previous button until you reach the form in which you selected the entry, and change it. (The Installer retains any entries you don't change, even if you pass by them as you return to an earlier step in the installation process.)



- 6** Note that the label for the button at the lower right of the Input Summary form has changed from *Next* to *Install*. When you are satisfied with your selections, click on the Install button to complete the database server installation.

The Installer displays an overall status upon completing the installation of the patch. If the overall status is Success, the installation has finished with no errors.

If errors occur, they may be classified as Warning, Nonfatal, or Fatal, depending on severity. The Installer recovers (restores the system to its state prior to the installation) for Fatal errors, but not for Warning or Nonfatal errors. For details about errors and the installation process, navigate to the directory from which the Installer ran and review two log files: `LADB_LOG_timestamp.log` and `LADB_ERROR_timestamp.log`, where *timestamp* is the date and time at which the Installer ran.

Installing Forms Server Components

To install forms server components of an AppsRules patch:

- 1** If the database and forms servers run on the same host, re-resource the environment by opening a new shell.
- 2** Transfer the `lapatchfrm.bin` file to the forms server, via FTP in binary mode. Use the `aplmgr` account.
- 3** Use `aplmgr` to log in to the forms server. Ensure that the user (login ID) has write and read privileges on `$APPL_TOP`.
- 4** Execute the environment file, if it is not included in the profile:

```
$. . $APPL_TOP/$APPLFENV
```

- 5 Set the execute permission on `lapatchfrm`:

```
$.chmod +x lapatchfrm.bin
```

- 6 Execute `lapatchfrm.bin`. Use the file name alone to run the Installer in GUI mode; add the argument `-i console` to run the Installer in console mode.

Most windows (or console prompts) for the forms installation are identical to those for the database installation. If you select GUI mode, each window enables you to perform the same operations as you could in the database-server Installer (see page 4).

To complete the forms server installation:

- 1 In the Staging form, once again select a directory for the temporary placement of source files. The Installer once again suggests a default — its name this time a time-stamp for the moment you perform the installation, along with *FRM* (for forms).

If you wish to select another directory, click on the Choose button. In a Select a Folder window, navigate to the directory you want. If you specify a nonexistent directory, the Installer creates that directory. If you navigate away from the default directory and want to return to it, click on the Restore Default Folder button.

- 2 In the Database Host form, select the database host name used where the database installation has been run, and the appropriate SID and port values. (Ensure they are the same as the values selected for the original AppsRules installation.)
- 3 The Database Schema window is changed slightly from its corresponding window in the database-server Installer program. There is no longer an Index Table Space field (as that field would be inapplicable to forms installation), but where the database-server Installer requested only a password for the Oracle Applications schema, the forms-server Installer asks for a name as well:

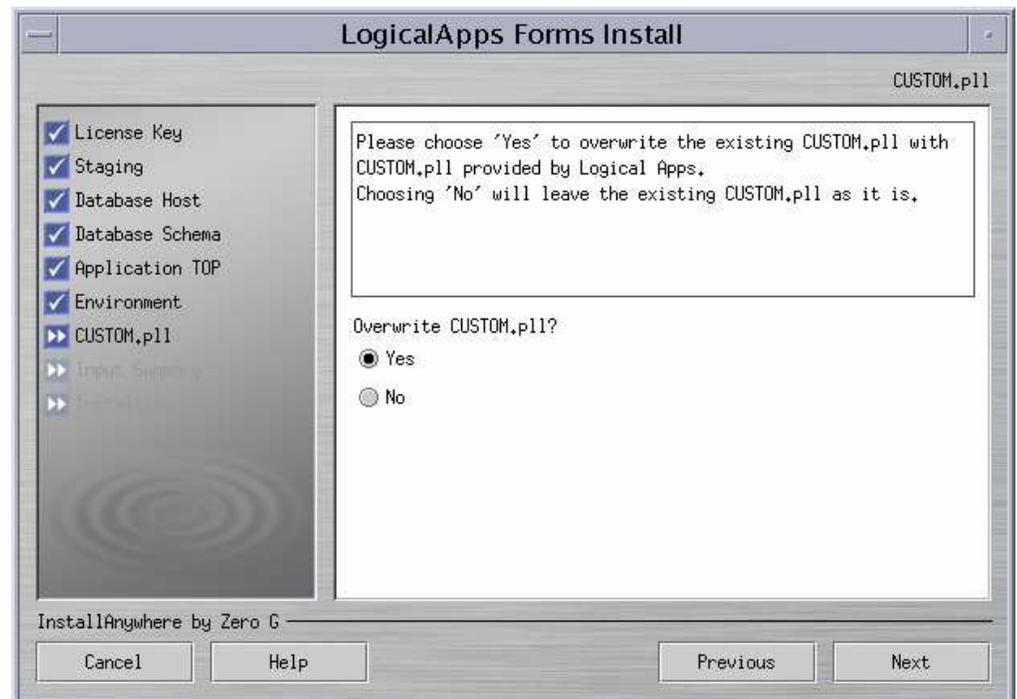
For the Apps Schema field, accept the default value, APPS. (This needs to match the database-server value, which is hard-coded.) For each of the remaining fields, enter the same value as you entered for the database installation. As you did there, accept XXLAAPPS, the default value for the Logical Apps schema name, only if it was accepted during the original AppsRules installation; if the default was modified then, provide the same modified name now. Provide the same values as were provided during the original installation for the Logical Apps and Oracle APPS schema passwords

- 4 In the Application TOP form, establish the Logical Apps TOP for the forms server — the highest-level directory for the storage of AppsRules files. Specify a directory that is to serve as the parent of the Logical Apps TOP, and an application short name that is appended to the parent directory to form the Logical Apps TOP directory.

The Installer defaults to the forms-server-specific Oracle Applications TOP as the parent directory and XXLAAPPS as the application short name. Ensure, however, that the application short name for the forms server is the same as the one you selected for the database server. Also, ensure once again that the values you enter here match those provided during the original AppsRules installation.

(To select another parent directory, click on the Choose button and, in a Select a Folder window, navigate to the directory you want. If you enter the name of a nonexistent directory, the Installer creates that directory. To return to the default directory, click the Restore Default button.)

- 5 When you complete the Application TOP form, the forms server Installer presents a CUSTOM.pll form:



Forms server installation requires that an existing CUSTOM.pll file be modified so that it can link to an LACUSTOM.pll file. If you select Yes, the Installer backs up your existing CUSTOM.pll, and then overwrites the original with a modified copy that contains the necessary links to LACUSTOM.pll. (The backup copy has a timestamp appended to the .pll file extension.) If your existing CUSTOM.pll contained any customization, a Yes selection in this form would require you to copy your customizations manually from the backup file to the Logical Apps-provided CUSTOM.pll.

If you select No, the Installer retains your existing CUSTOM.pll. In this case, you need to edit the file to insert links to LACUSTOM.pll (see below).

- 6 In the Input Summary form, review the selections you have made. If you determine that any of the entries is inappropriate, you can click on the Previous button until you reach the form in which you selected the entry, and change it. (The Installer retains any entries you don't change, even if you pass by them as you return to an earlier step in the installation process.)
- 7 When you are satisfied with the selections you have made in preceding forms, click on the Install button in the Input Summary form to complete the forms server installation.

The Installer displays an overall status upon completing the installation of the patch. If the overall status is Success, the installation has finished with no errors.

If errors occur, they or the overall status may be classified as Warning, Nonfatal, or Fatal, depending on severity. The Installer recovers (restores the system to its state prior to the installation) for Fatal errors, but not for Warning or Nonfatal errors. For details about errors and the installation process, navigate to the directory from which the Installer ran and review two log files: LAFRM_LOG_ *timestamp*.log and LAFRM_ERROR_ *timestamp*.log, where *timestamp* is the date and time at which the Installer ran.

CUSTOM.pll Modifications

If you chose (in step 5) not to overwrite your CUSTOM.pll file, edit the CUSTOM.pll file. (If you selected Yes in step 5, ignore this section.)

- 1 In place of the existing code for *Procedure Event(event_name varchar2)*, substitute the following:

```
PROCEDURE event(event_name varchar2) is

    form_name          varchar2(30) := name_in('system.current_form');
    block_name         varchar2(30) := name_in('system.cursor_block');
    field_name         varchar2(30) := name_in('system.current_item');
    function_name      varchar2(30);
    parameters         varchar2(2000);
```

```

begin
    if (event_name = 'ZOOM') then
        la_enhncmtmgr_pkg.la_zooms(form_name,block_name,function_name,
            parameters);
    if parameters is null then
        fnd_function.execute(function_name,'Y','N');
    elsif 'ZOOMSPECIAL' = substr(parameters,1,11) then
        lacustom.event('ZOOMSPECIAL'); -----new code 081903
    else
        parameters := lazoom.zoom_event(parameters);
        fnd_function.execute(function_name,'Y','N',parameters);
    end if;
-----WNI
    elsif (event_name='WHEN-NEW-FORM-INSTANCE') then
        lacustom.event('WNF');
-----WNB
    elsif (event_name = 'WHEN-NEW-BLOCK-INSTANCE') then
        lacustom.event('WNB');
-----WNI
    elsif (event_name = 'WHEN-NEW-ITEM-INSTANCE') then
        lacustom.event('WNI');
-----WNR
    elsif (event_name = 'WHEN-NEW-RECORD-INSTANCE') then
        lacustom.event('WNR');
-----
    elsif (event_name = 'WHEN-VALIDATE-RECORD') then
        lacustom.event('WVR');
-----
    elsif (substr(event_name,1,7) = 'SPECIAL') then
        execute_menu(event_name);
-----
    else lacustom.event(event_name); --put other events here
    end if;
end event;

```

2 In place of the code for *Function zoom_available*, substitute the following:

```

FUNCTION zoom_available return boolean is
    v_enabled    varchar2(20);

begin --x
    v_enabled := lazoom.zoom_enabled;
    IF v_enabled = 'TRUE' THEN
        return TRUE;
    else
        return FALSE;
    end if;
RETURN NULL;
end zoom_available;

```

3 Attach the following libraries. (Remove the path when attaching the libraries.)

- LACUSTOM.pll
- LABRSQL.pll

4 Compile the file and ensure there are no compilation errors.

Validating the Installation

Once the patch installation is complete, you can review information about the files you've installed. To do so:

- 1 Log on to the Logical Apps responsibility.
- 2 In the Navigator, select Install History. The Installation History form appears:

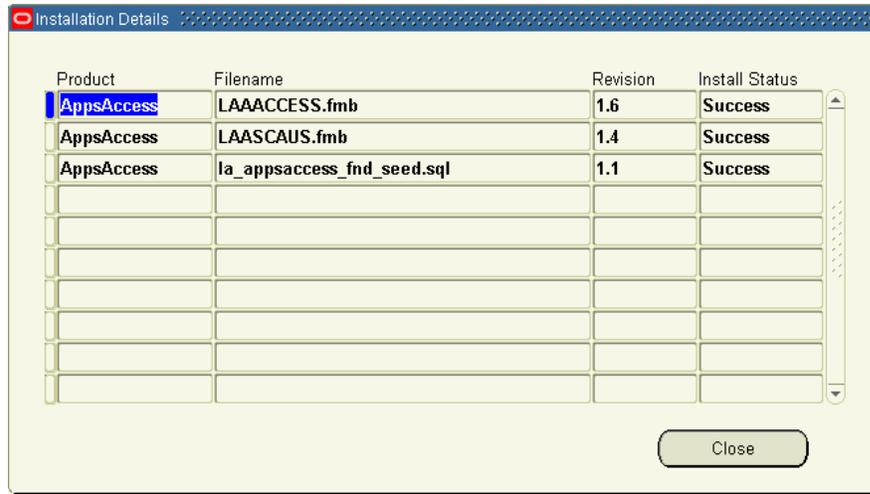
The screenshot shows a web browser window titled "Logical Apps Installation History". The window has two tabs: "Install History" (selected) and "Current File Versions". Below the tabs is a table with the following columns: Install Datetime, Release, Component, Host Name, Install Status, Product, User Name, Schema, and Staging Dir. The table contains 12 rows of data. The first row is highlighted in blue. Below the table is a button labeled "Installed Files...".

Install Datetime	Release	Component	Host Name	Install Status	Product	User Name	Schema	Staging Dir
23-AUG-2005 10:45:07	6.5.3AC1	FRM	cambria	SUCCESS	AppsAccess	oracle	XXLAAPPS	/oracle/bin/rjstage/FRM_23
23-AUG-2005 10:45:07	6.5.3AC21	FRM	cambria	SUCCESS	AppsAccess	oracle	XXLAAPPS	/oracle/bin/rjstage/FRM_23
23-AUG-2005 10:41:30	6.5.3AC1	DB	cambria	SUCCESS	AppsAccess	oracle	XXLAAPPS	/oracle/bin/rjstage/DB_23A
23-AUG-2005 10:41:30	6.5.3AC3	DB	cambria	SUCCESS	AppsAccess	oracle	XXLAAPPS	/oracle/bin/rjstage/DB_23A
23-AUG-2005 10:41:30	6.5.3AC21	DB	cambria	SUCCESS	AppsAccess	oracle	XXLAAPPS	/oracle/bin/rjstage/DB_23A
23-AUG-2005 10:41:30	6.5.3AC4	DB	cambria	SUCCESS	AppsAccess	oracle	XXLAAPPS	/oracle/bin/rjstage/DB_23A
26-JUL-2005 15:21:51	6.5.3	FRM	cambria	SUCCESS	AppsCore	oracle	XXLAAPPS	/oracle/bin/dtstage/FRM_26
26-JUL-2005 15:21:51	6.5.3	FRM	cambria	SUCCESS	AppsFlow	oracle	XXLAAPPS	/oracle/bin/dtstage/FRM_26
26-JUL-2005 15:21:51	6.5.3	FRM	cambria	SUCCESS	AppsAccess	oracle	XXLAAPPS	/oracle/bin/dtstage/FRM_26
26-JUL-2005 15:21:51	6.5.3	FRM	cambria	SUCCESS	AppsAudit	oracle	XXLAAPPS	/oracle/bin/dtstage/FRM_26

- Review the information. Each row documents the installation of a Logical Apps program element. For example, the top row in the illustration on page 13 shows that the forms component of patch AC1 for version 6.5.3 was installed successfully.

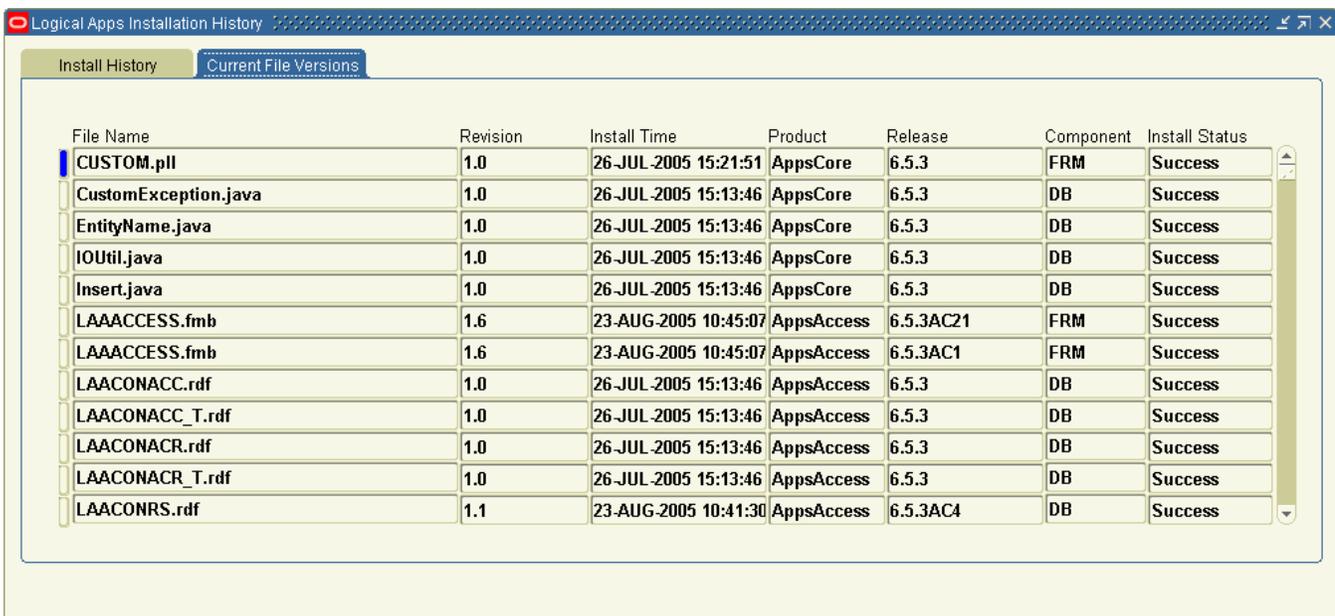
Because there can be several elements for each of the forms and database servers, a single installation can fill multiple rows in the grid. For example, the top six rows in this illustration pertain to the installation of forms- and database-server patches performed on August 23.

- To view a list of the files installed for a given element, click on the row for that element and then on the Installed Files button. The following form appears.



Click on the Close button to clear this form.

- Finally, to review information about all currently installed files (regardless of whether they were added in the most recent installation), click on the Current File Versions tab:



- To close the Installation History form, click on its × symbol.