

Lesson Objectives

- What is an Interface?
- Interface Types
- Importing Information into Oracle Financials Applications
- Open interfaces
- API Interfaces
- Integration
- The benefits of using open interfaces
- The Oracle Applications Open Interface Model
- How to manage your open interface processing



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Introduction



What is an Interface?

- Integrating one application to other applications.
- It involves data file, insertion scripts, loader scripts, temp tables. Data file is a flat file having contents with delimitter insertion scripts are used to insert data into product tables from temp table.
- Loader scripts are also called as control files which are used insert data from data file to temp table.
- Temp tables are used to transfer data from one module to another or application.

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Supported Interfaces

Table-based Open Interfaces

- Documented in Open Interface manuals
- Not every table ending with 'INTERFACE' is supported as an open interface

PL/SQL Object APIs

- There are also many low-level PL/SQL 'table handlers', but most are not open interfaces
- ADI/WebADI
- FNDLOAD (AOL setups)
 - Be careful with Profile Options, some store sequence-generated Ids

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Migration to Oracle Supported: - Entering data via the UI - Using Open Interfaces / API's - Using Oracle data migration utilities Not supported: - Direct manipulation of the data in the database.

Migration to Oracle Setup Data (Application Object Library (AOL) data) - Profiles - Flexfield definitions Master Data - Items - Customers Transaction Data - Purchase Orders - Invoices

Types of Migration

- Migrate from legacy system to Oracle
- Migrate to new hardware platforms
- Migrate from from older Oracle release to newer Oracle release
- Migrate multiple installs to multi-org single instance
- Migrate between instances (Test to Prod)
- Propagation of master reference data

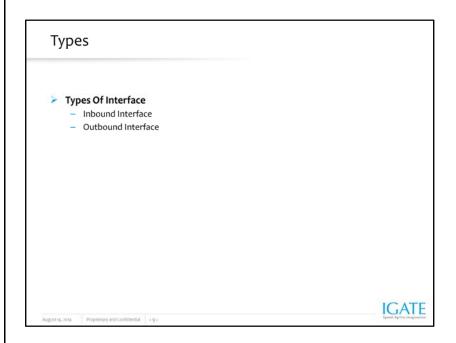
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Interface Success Factors

- Adequate documentation of source data
- Quality of source data
- Business expertise to validate loaded data
- Understanding of current and future business needs
- Understanding of audit/reconciliation requirements
- Complete documentation for application configuration
- Carefully planned migration execution and transition
 Documented data exception handling procedures
- Realistic expectations for migration cutover time window

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How to get the data into the Application?

There are three alternatives to getting data into Oracle Applications:

- . The data can be entered using the Applications screens
- The data can be entered using Oracle's Open Systems Interfaces
- . The data can be stored in the database tables directly

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Entering data using Applications screens

Entering data into the screens is the safest, but most time consuming method for getting data into the Apps. It is also prone to quality problems, if people are manually typing data each time an instance of the apps is populated. The potential for inconsistency through human error is very high. There are ways of using Excel Macros to take data from an Excel spreadsheet and stuff them into the Oracle Applications screens. The screens that can be stuffed are quite few, however. This technique works best for elemental items, like freight terms, employees, and simple lists of values.

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Entering data using the Open Systems Interface

It is a good idea to use Oracle's Open System Interfaces (OSI) whenever possible. It is also a good idea to write one piece of software, however, that can function as both a conversion and an interface. Some of the OSIs require a bit of work to figure out. This is because the behavior of the OSI varies according to the unique setups entered by the user. Therefore, the behavior of the Open Item Interface is likely to be different from one Oracle Applications customer to another.

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Entering data into the tables directly

This is usually not advised. It carries with it the tremendous risk of missing a referential integrity nuance or the validation of some field. If the database is populated with technically bad data, returning the system to a functional state may not be possible. This is one reason why Oracle does not advise customers updated database tables directly. Having stated that, there will be occasions where you must update the tables directly.

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Designing and Developing the Interface Process

The design of an interface should permit ease of troubleshooting and maintenance. It is usually best to divide the work into distinct modules, each of which can be more easily tested. The modular design also makes changes easier and faster to implement. Below figure contains a general flow for an inbound interface.

The greatest benefits are derived from developing a standard model for all conversions and interfaces. By following a standard of developing modular code, much code can be reused. One of the greatest benefits accrue to the support of the interface once it is placed in Production. Because the design is known, troubleshooting and repair is greatly simplified. A simple standard for interface design is shown below:

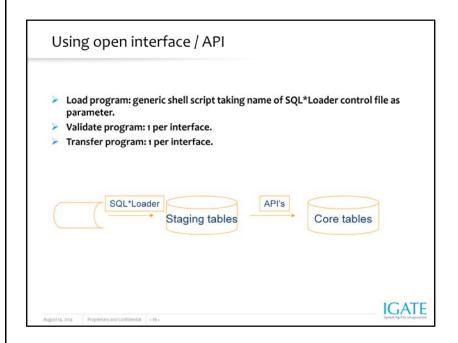
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Using open interface / API

- Sample usage of open interfaces for conversion purpose:
- 3-step process:
 - Load: Get the data from the flat file into the staging table
 - Validate: Assess the quality of the data by calculating and evaluating metrics.
 - Transfer: Insert data into interface table / call APIs with values in staging table
- Run the conversion programs in the E-Business Suite for security / accessability / traceability.

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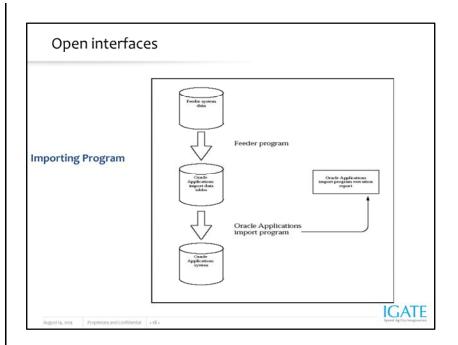
Open interface

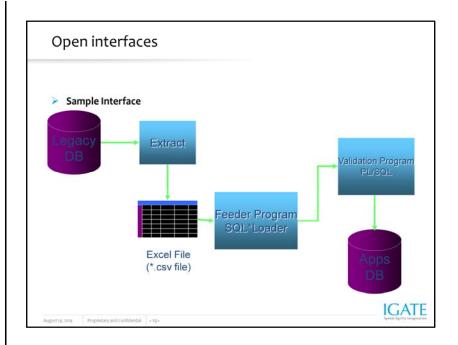
Objective

The goal of your import program is to convert data from your feeder system into a standard data format that your Oracle applications can read and then convert for further modification or processing in your Oracle application.



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Open interfaces

Feeder Program

A custom program you use to import your detail accounting transactions from an
external or feeder system into your Oracle Financials application. The type of feeder
program you write depends on the environment from which you are importing data.

Not Null Columns

 A column in which you must enter information. In other words, a column in which the value may not be null.

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Open interfaces

Writing a Feeder Program

The type of environment from which you want to import data determines the type of feeder program you need to write. For example, you can use SQL*Loader to write an import program to feed data from a non-Oracle system. Or, you can write a feeder program to import historical data from your previous accounting system. Regardless of the type of feeder program you write, the output should be in standard data format that an Oracle Applications import program can use to convert your import data into your Oracle Applications system.

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SQL*Loader is a powerful and easy-to-use tool you can to write a feeder program. SQL*Loader lets you map elements of a regularly formatted file, such as a listing or flat file, and specify which columns of which tables to populate. Chances are, SQL*Loader is a powerful enough tool to use for your feeder program.

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General Tips

- Clean up data before migrating
- Back up database at critical milestones
- Don't underestimate time for analysis, design, development, testing, debugging, and retesting

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Review Questions Question 1: A ______ is a collection of concurrent programs. Question 2: An execution method can be a _____. Review Question 1: A ______ is a collection of concurrent programs. Pupping Annual Confidential | -24-