

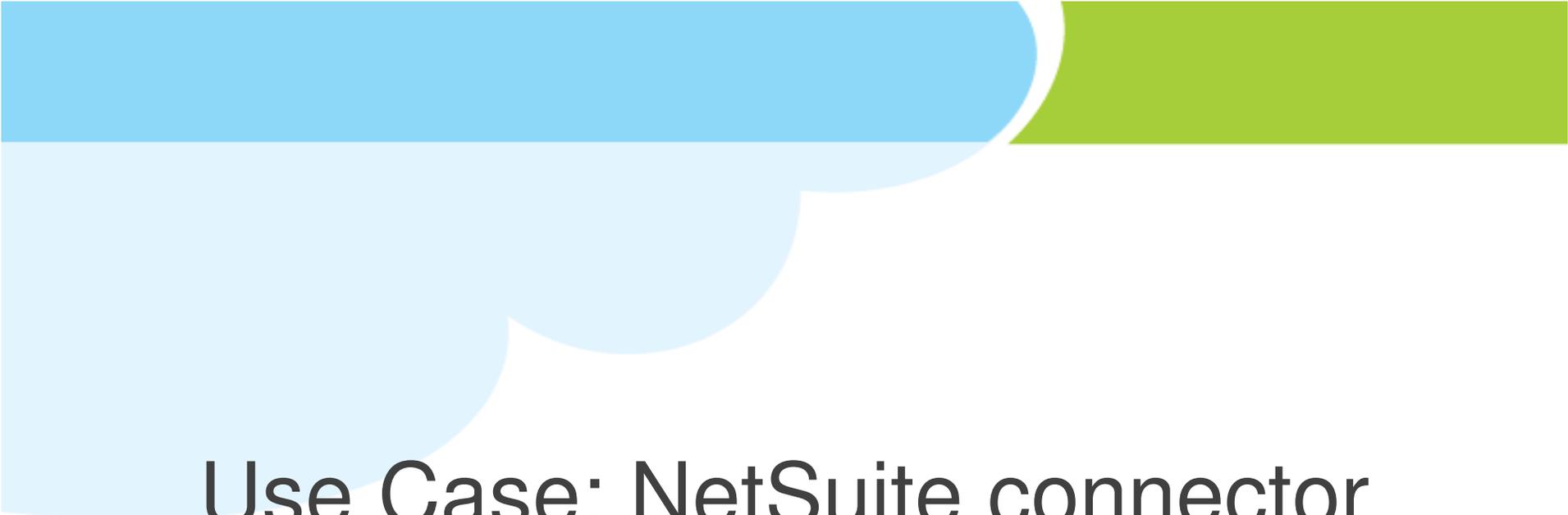


Leading the **Integration** Revolution

Your business problems have changed.
Why hasn't your integration solution?

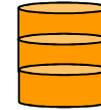


ADEPTIA



Use Case: NetSuite connector

Use cases for NetSuite connector



Databases



Flat-Files, Excel
(FTP, HTTP, Email)



Back-End Systems
(ERP, Finance etc.)



Cloud
Applications



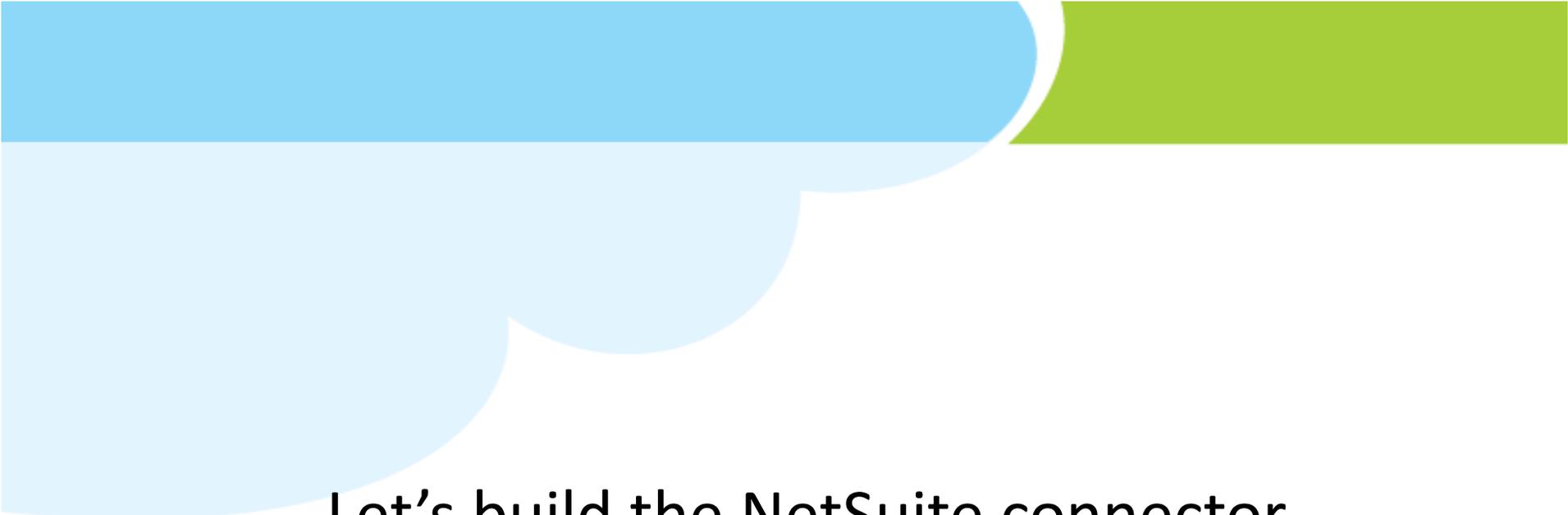
Business Users
(Process Workflow)

High-level Description

In this example we will create a NetSuite Web Service connector and then will show you how to use this connector to integrate NetSuite with Enterprise or Cloud applications such as Databases, ERP systems, Ecommerce systems, Reporting engines, Workflows, Web Services and APIs.

As part of this example we will build an orchestration that will take data from NetSuite and load the data into backend database.

Goal of this use case is to provide you with working template so that you can expand on these and build bidirectional data flows. Refer to the Video and the deployable Solution for further help.



Let's build the NetSuite connector

Design methodology

Design

Design a high level process flow

Configure

Configure all the activities in the process flow

Deploy

Attach the process flow to an Event to trigger the process automatically.

Design: First let's create a Top level design of the solution using the Process Designer

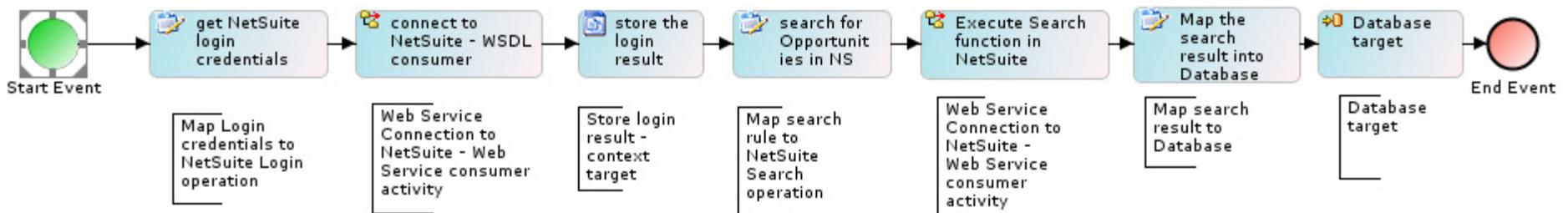
Go to Develop > Process > Process Flow

Create new and in the designer, design a top-level flow by pulling the icons from the palette area.

Refer to the demo and tutorial videos on how to design a process flow.

Each activity performs a discreet function such as connecting to NetSuite, persisting the session and receiving data from NetSuite.

To view their design, right click on the names and edit the processes and view these flows in the Process Designer.



Configure: NetSuite Web Service Consumer activity

This activity is used in connecting to NetSuite. Go to Develop > Services > Web Services > Consumer. Here we created a consumer activity by providing a sandbox NetSuite endpoint URL.

https://webservices.sandbox.netsuite.com/wsd/v2010_2_0/netsuite.wsd*

The screenshot shows the NetSuite interface with the following elements:

- Navigation tabs: Home, Develop (selected), Monitor, Administer.
- Sub-navigation: Getting Started, Projects, Solutions, Process, Services, Events, Web Forms, Reports and Dashboards.
- Current path: Services > Web Services > Consumer (marked with a red checkmark).
- Buttons: Delete, + Create New, Quick Search.
- Table of consumer activities:

Name	Description	Owner	Style	Project Name	Modified
NetSuite_WSDL (marked with a red checkmark)	this WSDL connects to NetSuite - sandbox	demouser	SOAP	NetSuite_Connector	12/08/13 2...

Standard Properties

Specify web service definition location.

Name* NetSuite_WSDL

Description* this WSDL connects to NetSuite - sandbox

Character Set Encoding* ISO-8859-1

Consumer Type* SOAP REST

URI Location HTTP Local/LAN

WSDL URL (HTTP URL)* https://webservices.sandbox.netsuite.com/wsd/v2010_2_0/netsuit (marked with a red checkmark)

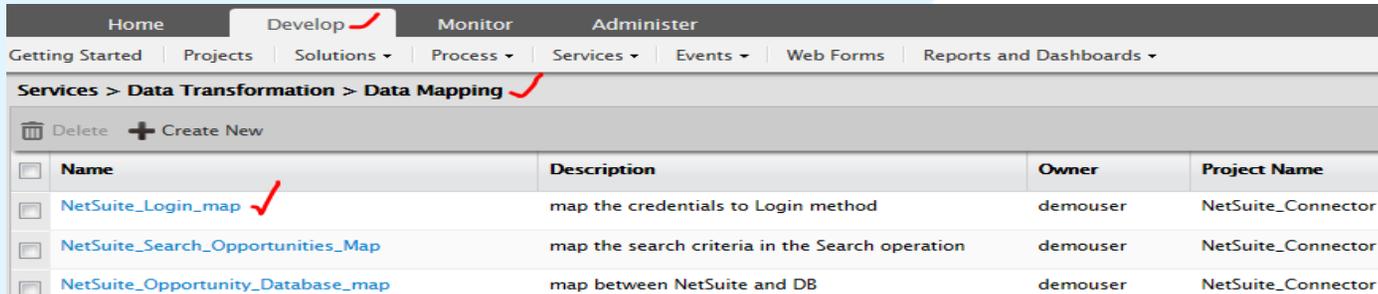
WSDL File Path(Local/LAN)* Browse WSDL

* Change the endpoint to a newer version in this field.

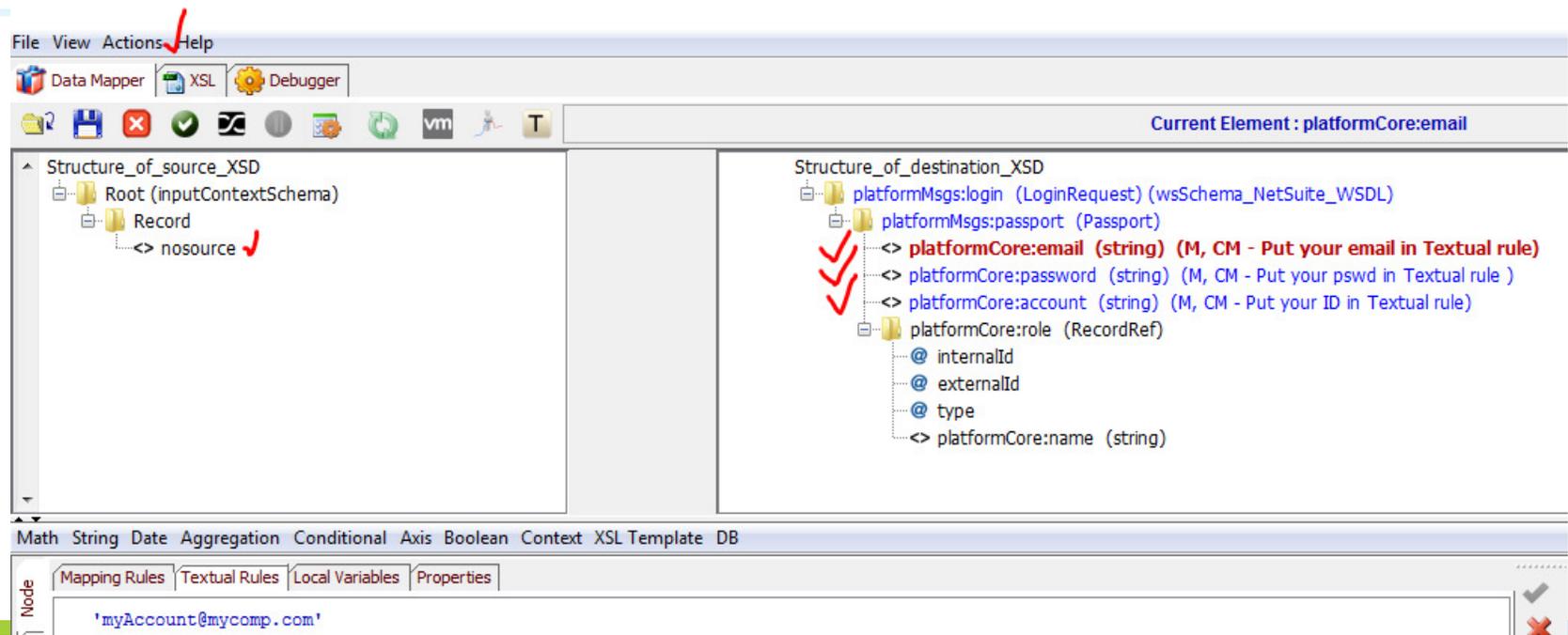
Configure: Mapping Login credentials to NetSuite Login operation

Go to Develop > Services > Data Transformation > Mapping

Here you will see list of maps related to this use case. Right click, edit and open the mapping to see the login rules. Also refer to the Use Case video.



Name	Description	Owner	Project Name
NetSuite_Login_map ✓	map the credentials to Login method	demouser	NetSuite_Connector
NetSuite_Search_Opportunities_Map	map the search criteria in the Search operation	demouser	NetSuite_Connector
NetSuite_Opportunity_Database_map	map between NetSuite and DB	demouser	NetSuite_Connector



File View Actions Help

Data Mapper XSL Debugger

Current Element : platformCore:email

Structure_of_source_XSD

- Root (inputContextSchema)
 - Record
 - nosource ✓

Structure_of_destination_XSD

- platformMsgs:login (LoginRequest) (wsSchema_NetSuite_WSDL)
 - platformMsgs:passport (Passport)
 - platformCore:email (string) (M, CM - Put your email in Textual rule) ✓
 - platformCore:password (string) (M, CM - Put your pswd in Textual rule) ✓
 - platformCore:account (string) (M, CM - Put your ID in Textual rule) ✓
 - platformCore:role (RecordRef)
 - @ internalId
 - @ externalId
 - @ type
 - platformCore:name (string)

Math String Date Aggregation Conditional Axis Boolean Context XSL Template DB

Mapping Rules Textual Rules Local Variables Properties

Node 'myAccount@mycomp.com'

Configure: Database Schema and Target activity

For this use case we have created schema for the Opportunity database. This can be viewed by going To Develop > Services > Schema > Database. After the schema is created go to Target > Database and create target. We are using MySQL database to load the data records from NetSuite. Refer to the Use Case video for more details.

The screenshot displays the Adeptia web interface. The top navigation bar includes 'Home', 'Develop', 'Monitor', and 'Administer'. Below this, a secondary menu shows 'Getting Started', 'Projects', 'Solutions', 'Process', 'Services', 'Events', 'Web Forms', and 'Reports and Dashboards'. The main content area is titled 'Services > Schema > Database' with a red checkmark. A table lists database schemas, with 'Opportunity_data_schema' selected and marked with a red checkmark. A blue arrow points from this entry to the 'Standard Properties' configuration panel on the right. The configuration panel includes fields for 'Name*' (Opportunity_data_schema), 'Description*' (database table schema), 'Select Database Info*' (OpportunityDataConnection), 'Definition Mode*' (Table Name selected), 'XSD File' (with a 'Browse...' button), 'Table Name' (transaction_opportunity, with a 'Browse Tables' button), and a SQL query field containing 'SELECT * FROM transaction_opportunity'.

Configure: NetSuite Search Mapping

Apply search rule in the NetSuite Search operation in the mapping activity.

The screenshot displays the NetSuite Data Mapper interface. At the top, there are navigation tabs: Home, Develop, Monitor, and Administer. Below these are menu items: Getting Started, Projects, Solutions, Process, Services, Events, Web Forms, and Reports and Dashboards. The main navigation path is Services > Data Transformation > Data Mapping, with a red checkmark next to 'Data Mapping'. Below this is a toolbar with 'Delete' and '+ Create New' buttons.

A table lists existing maps:

Name	Description	Owner	Project Name
NetSuite_Login_map			
NetSuite_Search_Opportunities_Map			
NetSuite_Opportunity_Database_map			

The 'NetSuite_Search_Opportunities_Map' row is highlighted with a red checkmark and a blue arrow pointing to the mapping editor. The mapping editor shows two XSD structures:

- Structure_of_source_XSD:**
 - Root (inputContextSchema)
 - Record
 - nosource
- Structure_of_destination_XSD:**
 - platformMsgs:search (SearchRequest) (wsSchema_NetSuite_WSDL)
 - platformMsgs:searchRecord (OpportunitySearch) (E - OpportunitySearch)
 - @ xsi:type (M) ✓
 - tranSales:basic (OpportunitySearchBasic)
 - tranSales:actualJoin (TransactionSearchBasic)
 - tranSales:callJoin (PhoneCallSearchBasic)
 - tranSales:customerJoin (CustomerSearchBasic)
 - tranSales:decisionMakerJoin (ContactSearchBasic)
 - tranSales:estimateJoin (TransactionSearchBasic)
 - tranSales:eventJoin (CalendarEventSearchBasic)
 - tranSales:fileJoin (FileSearchBasic)
 - tranSales:leadSourceJoin (CampaignSearchBasic)
 - tranSales:messagesJoin (MessageSearchBasic)
 - tranSales:orderJoin (TransactionSearchBasic)
 - tranSales:originatingLeadJoin (OriginatingLeadSearchBasic)
 - tranSales:partnerJoin (PartnerSearchBasic)
 - tranSales:salesRepJoin (EmployeeSearchBasic)

At the bottom, the 'Mapping Rules' tab is active, showing a rule: 'tranSales:OpportunitySearch' ✓

Configure: NetSuite Search Result to Database Mapping

Map search results to Database fields.

The screenshot displays the NetSuite Data Mapper interface. At the top, there are navigation tabs: Home, Develop, Monitor, and Administer. Below these are menu items: Getting Started, Projects, Solutions, Process, Services, Events, Web Forms, and Reports and Dashboards. The main navigation path is Services > Data Transformation > Data Mapping. A table lists existing mappings:

Name	Description	Owner	Project Name
NetSuite_Login_map	map the credentials to Login method	demouser	NetSuite_Connector
NetSuite_Search_Opportunities_Map			
NetSuite_Opportunity_Database_map			

The 'NetSuite_Search_Opportunities_Map' mapping is selected, and its configuration is shown in a detailed view. The left pane shows the source XML structure with nodes like 'tranSales:forecastType', 'platformCore:name', and 'tranSales:status'. The right pane shows the target database schema with fields like 'totalCostEstimate (integer)', 'estGrossProfit (integer)', and 'status'. A mapping rule is defined at the bottom: '1 <<S> tranSale..' maps to '1 <<T> status..'. A red checkmark is next to the mapping name in the table, and a blue arrow points from it to the mapping rule.

Deploy: Run NetSuite Connector process through events or on-demand

Right click on the process flow name and click on Bind Events option to attach the flow to run automatically. You can also manually execute the flow by clicking on the Execute icon next to the flow name. Refer to the Use Case video for more information on event types.

This screenshot shows the 'Process > Process Flow' section in the NetSuite Admin console. The 'Events' menu item is highlighted with a red checkmark. Below the navigation bar, there are action buttons: Delete, Activate, Deactivate, and Create New. A table lists process flows with columns for Name, Description, Owner, and Project Name. The 'NetSuite_Connector' flow is highlighted with a red checkmark.

Name	Description	Owner	Project Name
NetSuite_Connector	connector process to login to NetSuite, search a...	demouser	NetSuite_Connector

This screenshot shows the 'Dashboard > Process Flows' section. On the left is a 'Process Flows List' with a search bar and a list of flows. 'NetSuite_Connector' is highlighted with a red checkmark. On the right is the 'Process Details' for 'NetSuite_Connector'. It includes two bar charts: 'Status' and 'Last 10 Days'. Below the charts is a table showing process flow instances.

Description	Status	Started By	Start Time	Duration	Action
connector process to login to Net...	Executed	demouser	12/08/2013 22:32:21	44 sec	

Managing the activities created for this use case

You can manage and view all the activities of this use case by going to Develop > Projects

It will show all the activities configured for this process under its related categories. You can open any category to view its activities.

The screenshot displays the ADEPTIA web application interface. At the top, the ADEPTIA logo is visible. Below the logo is a navigation bar with tabs for 'Home', 'Develop', 'Monitor', and 'Administer'. The 'Develop' tab is active, and a sub-menu is open showing 'Projects', 'Solutions', 'Process', 'Services', 'Events', 'Web Forms', and 'Reports and Dashboards'. The 'Projects' sub-menu item is highlighted with a red checkmark. Below the navigation bar, the 'Projects' section is titled 'List of activities included in project "NetSuite_Connector"'. A red checkmark is next to the project name. Below this title, there are 'Back', 'Move', and 'Refresh' icons. The main content is a table with the following columns: Name, Description, Owner, and Modified. The table lists several activities, including 'NetSuite_Login_map', 'NetSuite_Opportunity_Database_map', 'NetSuite_Search_Opportunities_Map', 'OpportunityDataConnection', 'Opportunity_data_schema', 'Opportunities_database_target', 'NetSuite_Connector', and 'NetSuite_WSDL'. Each activity has a checkbox in the 'Name' column and a timestamp in the 'Modified' column.

Name	Description	Owner	Modified
<input type="checkbox"/> NetSuite_Login_map	map the credentials to Login method	demouser	12/08/13 23:14
<input type="checkbox"/> NetSuite_Opportunity_Database_map	map between NetSuite and DB	demouser	12/08/13 22:29
<input type="checkbox"/> NetSuite_Search_Opportunities_Map	map the search criteria in the Search o...	demouser	12/08/13 22:52
Database Info (1)			
<input type="checkbox"/> OpportunityDataConnection	Opportunity Data connection object	demouser	12/08/13 22:05
Database Schema (1)			
<input type="checkbox"/> Opportunity_data_schema	database table schema	demouser	12/08/13 22:06
Database Target (1)			
<input type="checkbox"/> Opportunities_database_target	target to load data	demouser	12/08/13 22:30
Process Flow (1)			
<input type="checkbox"/> NetSuite_Connector	connector process to login to NetSuite,...	demouser	12/08/13 22:59
Web Service Consumer (1)			
<input type="checkbox"/> NetSuite_WSDL	this WSDL connects to NetSuite - sand...	demouser	12/08/13 22:03

Leading the
Integration
Revolution

Your business problems have changed.
Why hasn't your integration solution?

Thank You!



ADEPTIA