

# Cisco Prime Service Catalog

Feature Review for v10.0 – Configuring CSS and Calling REST API

November 25, 2013 *(Updated April 30, 2014)*



# Cisco Prime Service Catalog 10.0 Feature Review

- Configuring CSS to Implement Customer Branding

  - Setup a custom style for an OU or tenant

  - Configure Service Catalog CSS for a tenant

  - What does a customer-branded Service Catalog page look like?

  - Configuring the Service Portal Module Header

- Using Service Link to Call REST APIs

- Preview of 10.1 Enhancements

# Configuring CSS to Implement Customer Branding

# Setup a custom style for an OU or tenant

- The Service Catalog module is powered by HTML5, which means the techniques for configuring and customizing an HTML5 web application applies.
- This short tutorial describes how to setup an organizational unit that has custom style. In Prime Service Catalog 10.0 or earlier, use IE8 for this operation.
- To start with, locate the *custom* directory under RequestCenter.war directory. On Windows, it may be found at  
C:\CiscoPrimeServiceCatalog\jboss-as-7.1.1.Final\RequestCenterServer\deployments\RequestCenter.war\custom
- The examples CSS files are under the “ServiceCatalogExamples” directory.
- To start your CSS work, copy ServiceCatalogExample to a new directory  
e.g. C:\CiscoPrimeServiceCatalog\jboss-as-7.1.1.Final\RequestCenterServer\deployments\RequestCenter.war\custom\Small Company
- Create a user and an organizational unit (OU) called *The Small Firm*.
- Now go to Administration module, and set up a custom style for Small Company.

admin admin Administration

ifications Lists Settings Utilities

Add ?

### Custom Style Properties

\* Name: The Small Company

Make this Style the default for the entire site

Apply this Style to all Sub OUs

Apply this Style to Service Catalog

Style Directory: Small Company

Description:

Update Delete

#### Associated Organizational Units

Name	Description
<input type="checkbox"/> The Small Firm	

Add Remove Items 1 - 1 of 1 Go

Customizations  
Person Popup  
Entity Homes  
Debugging  
Custom Styles  
Data Source Registry

# Configure Service Catalog CSS for a tenant #1

- There are a few files under C:\CiscoPrimeServiceCatalog\jboss-as-7.1.1.Final\RequestCenterServer\deployments\RequestCenter.war\custom\Small Company\application that you can modify. The three main files to start with
- Copy example\_before.html to before.html, and do the same for example\_head.html as well as example\_after.html

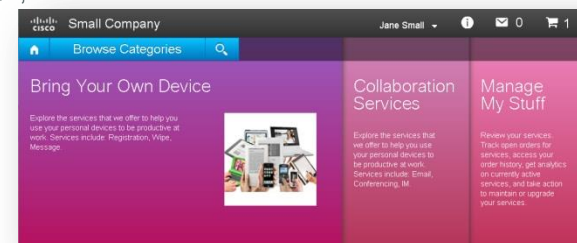
**before.html** – The content of this file is prepended to the <body> of the HTML document. You can use this file to override product strings before they are displayed. For example, the product name in the header uses string ID 15162, so you can make the product show “Small Company” by inserting this block into before.html:

```
<script>
serviceCatalogMessage.putString("15162", 'Small Company');
</script>
```

Use **Firebug** or other web developer tools to examine the HTML source code of the Service Catalog module. You will see other strings that you can override in the format of “serviceCatalogMessage...”

**head.html** – The content of this file is injected into the end of the <head> section of the HTML document. You can override the colors and styles specified by the various HTML classes and elements on the web page. For example, I use the following color settings to create an ugly version Small Company “homeslider”.

```
<style>
.homeslider .blocks.block1 {
    background-color: #9E6F9A; //#2B6F9A;
    background-image: linear-gradient(to bottom, #985DC2, #B6115E); // #258DC2, #04415E);
    background-repeat: repeat-x;
}
.homeslider .blocks.block2 {
    background-color: #9E6F9A; //#2B6F9A;
    background-image: linear-gradient(to bottom, #D486C0, #B43557); // #6486C0, #213557);
    background-repeat: repeat-x;
}
.homeslider .blocks.block3 {
    background-color: #9E6F9A; //#2B6F9A;
    background-image: linear-gradient(to bottom, #EE86C0, #BE3157); // #7B86C0, #2B3157);
    background-repeat: repeat-x;
}
</style>
```





# Configuring Service Catalog CSS for a tenant #2

- The third file that you can modify in the custom\style directory is **after.html** – The content in this file is appended at the end of the html <body>.
- These three files are shipped as example\_before.html, example\_head.html and example\_after.html. Copy them and remove the “example\_” prefix.
- Other files in the directory are available if you want to do more extensive customization of the UI but it is beyond the scope of this high level tutorial.
- You can change the default Cisco Logo to some other company logo in the **head.html** file, as it is a style override. The following code overrides the logo and page header background to a fictional company, **ACME, Inc.**
- Notice that the logo image is stored under **custom/company name/images** directory.

## Example head.html CSS for ACME, Inc.

```
<style>
.navbar-inner {
    background-color: transparent;
    background-image: none;
    filter: progid:DXImageTransform.Microsoft.gradient(enabled=false); // disable the gray
header bar in IE as ACME's header background is white
}
.navbar .nav {
    color: #333;
    text-shadow: none;
}
.navbar .nav > li > a {
    color: #333;
```

```
text-shadow: none;
}
.psc-goto-cart {
    color: #333 !important;
}
.psc-top-icon {
    border: 2px solid #333;
    background-color: #333;
}

/* Change company logo */
.psc-header .navbar .brand {
    background-image: url("/RequestCenter/custom/ACME/images/acme.png");
    background-repeat: no-repeat;
    background-position: 0 .514em;
    background-size: 75px auto;
    padding-left: 3em !important;
    padding-top: 0.25em !important;
    padding-right: 5em !important;

    font-size: 1.571em;
    line-height: 2.28em;
    color: #333; /* ACME's website H1 color */
    text-shadow: none;
} /* Change company logo */

</style>
```

# Configuring Service Catalog CSS for a tenant #3

## Example head.html CSS for ACME, Inc. (continued)

```
<style>
```

```
// The following block changes the colors "Home", "Browse Categories" and magnifying glass  
// (search) box to orange(!), including the search box hover state
```

```
.categories > .navbar li.menu.menu > a, .categories > .navbar li.menuHome.menu > a, .categories >
```

```
.navbar li.search.menu > a {
```

```
    background: none repeat scroll 0 0 orange;
```

```
}
```

```
.categories > .navbar li.menu > a, .categories > .navbar li.menuHome > a, .categories > .navbar
```

```
li.search > a {
```

```
    background: none repeat scroll 0 0 orange;
```

```
}
```

```
.categories > .navbar li.menu, .categories > .navbar li.menuHome, .categories > .navbar li.search {
```

```
    background: orange;
```

```
}
```

```
.categories > .navbar li.menu:hover, .categories > .navbar li.menuHome:hover, .categories > .navbar
```

```
li.search:hover {
```

```
    background-color: orange;
```

```
    background-image: linear-gradient(to bottom, orange, orange);
```

```
    background-repeat: repeat-x;
```

```
}
```

```
// This changes the navbar background color to the right of the Home, Browse Categories and  
magnifying glass box.
```

```
.categories > .navbar {
```

```
    background-color: rgba(255, 255, 102, 0.75); // this sets the color and transparency of the navbar
```

```
}
```

```
.page-heading { // This overrides the default : background-image:  
url("../ngc/img/page_heading_bg.png"); in the "Categories" view, so the color behind the  
"Categories" text is light green rather than the blue from the png.
```

```
    background-color: lightgreen;
```

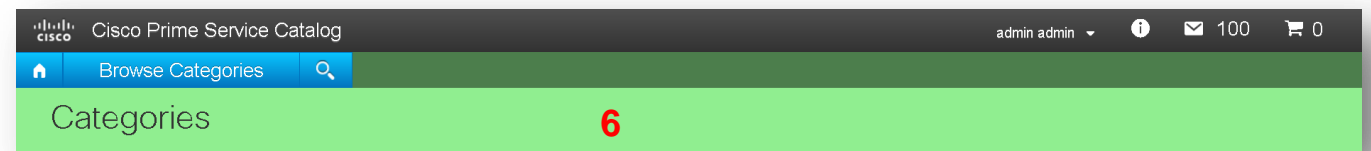
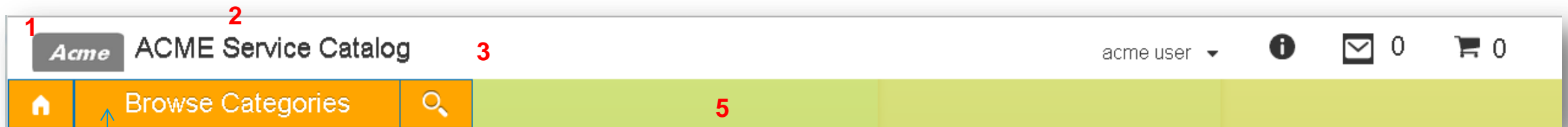
```
    background-image: none;
```

```
}
```

```
</style>
```

# What does the ACME-branded Service Catalog page look like?

- What were customized and the CSS tag used:
  1. Logo - `.psc-header .navbar .brand`
  2. Product name – `string ID 15162`
  3. Background color of the banner holding logo and product name – `navbar*`
  4. Background color(s) of the Home, “Browse Categories” and “Magnifying Glass” controls – `.categories > .navbar*`
  5. Background color of the navbar to the right of #4 - `.categories > .navbar*`
  6. Background color of the “Categories” bar in the service category view – `page-heading`





# Configuring the Service Portal Module Header #1

- The header for the Service Portal module can be configured by using the `portal-custom-header.css` file under the `custom/style` directory/.
- This file will be loaded at the end of the `<head>` section for all Portal Module pages.
- The following example works well if
  - Logo is rectangular and close to H:92x V:33px
  - Portal name is “Service Catalog”, which is the out-of-box `HeaderAppSubTitle`.
- Change the portal module header with the following CSS settings:

```
.reboot2 .xwtBackgroundSimplified {  
    background: transparent !important;  
}  
/*style to modify logo image*/  
.reboot2 .applicationHeader17 .applicationLogoImage {  
    background: url("images/acme.png") no-repeat transparent !important;  
    /*background-repeat: no-repeat;
```

```
background-position: 0 .514em;  
background-size:75px auto;  
padding-left: 3em!important;  
padding-right: 5em!important;*/  
height: 33px !important;  
width:92px !important;
```

```
/* Note: un-comment display property to hide the Product Logo if needed */
```

```
/*display:none !important;*/
```

```
}
```

```
/* This style is used to display or hide the Product Title in Portal modules
```

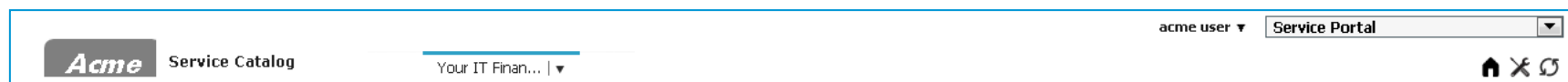
```
See Also: .applicationHeaderAppSubTitle, .applicationLogoImage,  
.applicationHeaderLogoText style - which will be the new style used to display  
branding logo
```

```
*/
```

```
.reboot2 .applicationHeader17 .applicationHeaderAppName {
```

```
    visibility: hidden; /* set to hidden because the AppName is set to “ACME”,  
which duplicates the text in the logo */
```

```
}
```

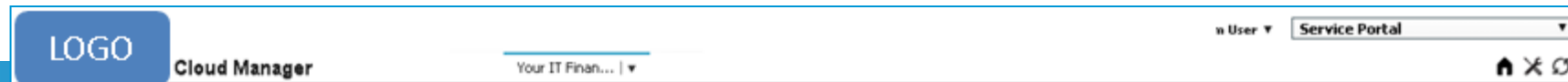


# Configuring the Service Portal Module Header #2

- Now if your logo is significantly larger than 90x30 pixels or you need a different app name than “Service Catalog”, you need to do more.
- The following example handles these branding requirements
  - Logo is larger, 135x70 pixels
  - Portal name is “Cloud Manager”, which different from the out-of-box “Service Catalog”. (Note required changes on “Configuring the Service Portal Module Header #3”)
- Change the portal module header with the following CSS settings:

```
.reboot2 .xwtBackgroundSimplified {
    background: transparent !important;
}
.reboot2 .applicationHeader17 {
    padding-left: 5px !important;
}
/*style to modify logo image*/
.reboot2 .applicationHeader17 .applicationLogoImage {
    background: url("/RequestCenter/custom/style_dir/images/customer_logo.png") no-
```

```
repeat scroll -2px -8px transparent !important;
    background-size: auto auto !important;
    height: 73px !important;
    line-height: 70px !important;
    top: 1px !important;
    width: 130px !important;
}
// This style will reduce the left right and top padding for logo container
.reboot2 .applicationHeader17 .applicationHeaderLogo {
    margin-left: 2px !important;
    margin-right: 2px !important;
    padding-top: 5px !important;
}
.reboot2 .applicationHeader17 .applicationHeaderAppSubTitle {
    color: #202020;
    cursor: default;
    font-size: 17px !important;
    font-weight: bold !important;
    font-family: CiscoSans,Arial,"Helvetica Neue",Helvetica,sans-serif !important;
    text-shadow: 0 0.071em 0 #585858 !important;
}
```



# Configuring the Service Portal Module Header #3

- If you are changing the application name from “Service Catalog”, you also need to customize the PortalFullpagePrimeUi.js file. In this example, it is changed to “Cloud Manager”
- On Windows: This file may be located in C:\CiscoPrimeServiceCatalog\jboss-as-7.1.1.Final\RequestCenterServer\deployments\RequestCenter.war\ns360\js\PortalFullpagePrimeUi.js
- Search for the function name “getNavItems”

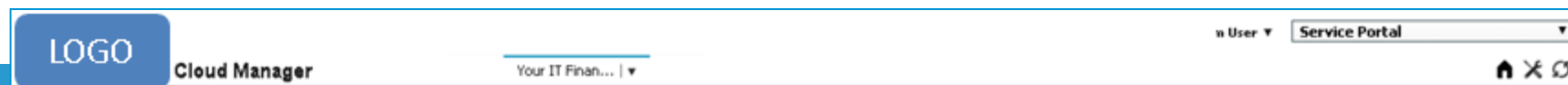
```
var appNameDiv = dojo.query('.applicationHeaderAppName')[0];
appNameDiv.style.display = "block !important";
appNameDiv.innerHTML = "Cloud Manager";
var appSubTitleDiv = dojo.query('.applicationHeaderAppSubTitle')[0];
appSubTitleDiv.style.display = "block !important";
appSubTitleDiv.innerHTML = "Cloud Manager";

return navItems; // existing code
```

```
if(defaultSelectedId != ""){ // existing code
    // existing code
    navItems.items.defaultSelected = defaultSelectedId;
} // existing code
```

```
navItems.items.toolbar.push(getToolbar()); // existing code
```

```
// Overwrite the app header text with customer’s application name “Cloud Manager”
// If text need to add for AppName div then from custom css file its "visibility"
// attribute should be "block !important"
```



# Using Service Link to Call REST APIs

# Standard Integration Architecture with Prime Service Catalog

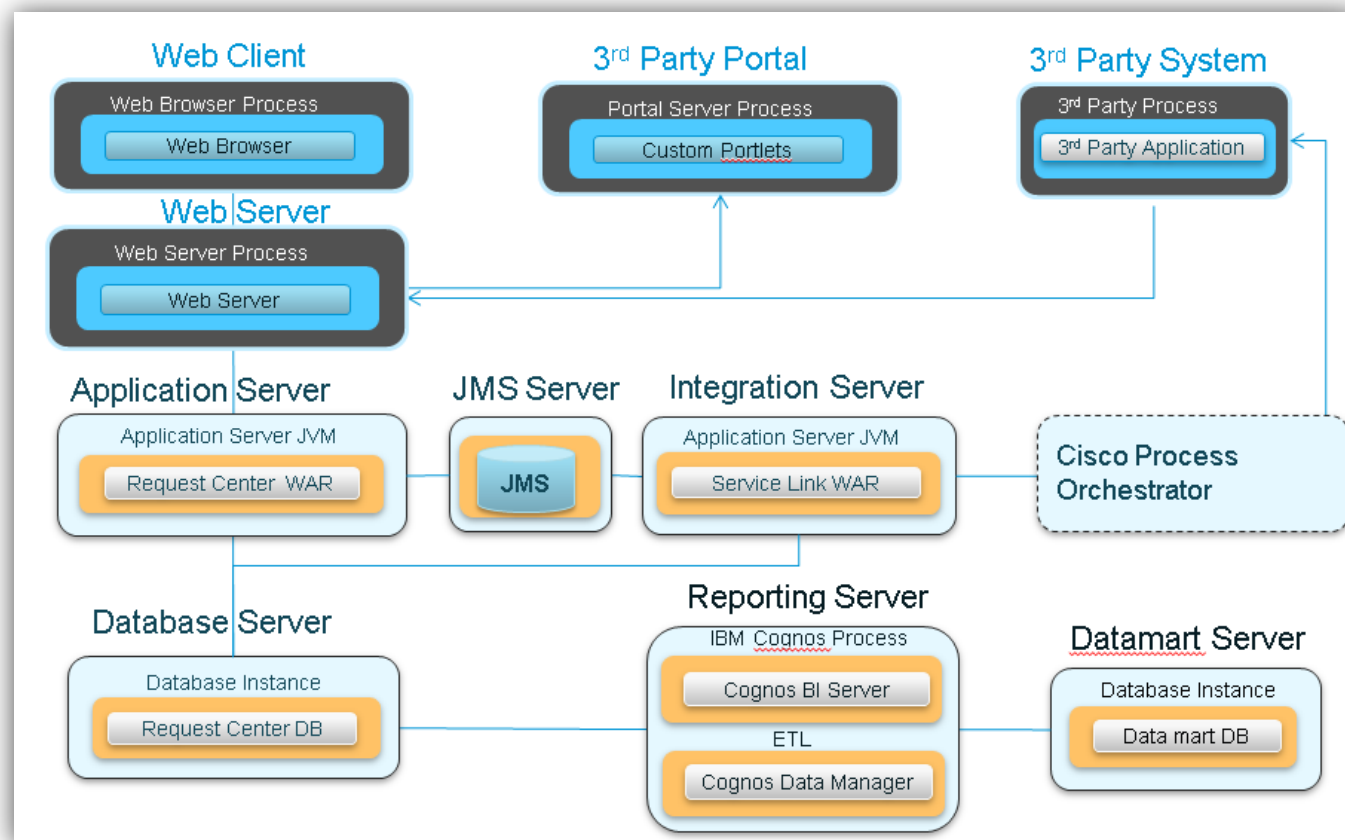
- Prime Service Catalog offers customers the right to use some Cisco Process Orchestrator functionality

PO Core Functions Adapter, PO Windows Adapter (Single Instance), PO Windows Automation Pack (Single Instances), PO AD Adapter (Single Instances), PO AD Automation Pack (Single Instances), PO Email Adapter (Single Instance), PO Core Automation Pack (Single Instance), PO Common Activities Automation Pack (Single Instance), PO SNMP Adapter (Single Instance), PO Terminal Adapter (Single Instance), Oracle DB Adapter (2 Instances), Microsoft SQL Database Adapter (2 Instances), PO DB2 DB Adapter (2 Instances) & PO Generic (OLEDB) DB Adapter (2 Instances), Cisco Service Portal Adapter (Single Instance), PO Web Service Adapter (5 instances), PO VMware vSphere Adapter (5 Instances), PO VMware vCloud Director Adapter (5 Instances).

- Generally, we recommend using Cisco Process Orchestrator as the automation engine

Service Link Remedy Adapter has been removed

Service Link VMware Adapter is no longer supported



# What is new and why?

- In Prime Service Catalog 10.0, we enhance Service Link's ability to call RESTful APIs
  - Through the HTTP/WS adapter, it now supports the HTTP PUT, GET, POST, DELETE methods
  - The adapter also now supports parameterized URL and HTTP header
  - This is in addition to supporting sending parameters in the HTTP message body
  - The same adapter is used to support SOAP calls
  - HTTPS is supported (In the Prime Service Catalog Configuration Guide under "Configuring SSL for Service Link Outbound Documents")
- Why extend this functionality in Service Link?
  - Customer requirement. Despite offering CPO for minimal additional cost, some customers insist on using the orchestration technology they have in-house, such as HPOO, Microsoft System Center 2012
  - Streamlined architecture for certain use cases. Prime Service Catalog for UCS-Director will use Service Link to call REST APIs on UCS-Director.
- The following examples illustrate calling REST APIs but it can integrate against public REST APIs. More examples to follow on [https://supportforums.cisco.com/community/netpro/data-center/intelligent\\_automation/service-catalog](https://supportforums.cisco.com/community/netpro/data-center/intelligent_automation/service-catalog).



# Configuring Service Link to call REST APIs #1

- Configure Service Link HTTP/WS adapter to make RESTful calls
  - Go to Manage Integrations
  - Create Agent
  - Create Transformation
- Create Agent
  1. Service Link → Manage Integrations → Agents
  2. Under General, select HTTP/WS adapter
  3. Under Outbound Properties, populate `HttpOutboundAdapter.RoutingURL` with the endpoint URL.
  4. Populate `ContentType`, e.g. `application/json`.
  5. If expecting data back, set `ProcessResponse` to true
  6. If there is any header parameters, set them in `RequestHeaders`.
    - `Param1=#rateID#&Param2=#rateName#`
    - `rateID` and `rateName` are agent parameters

# Configuring Service Link to call REST APIs #2

- You can use the header to send username and password from dictionary via agent parameters into namespaces
- If sending username and password in the header (encrypted with HTTPS), then set the AuthenticationScheme to ANONYMOUS.
- If using SSO via HTTP header, set AuthenticationScheme to BASIC and send the credentials via HTTP header.
- If using SSO via remote user, set AuthenticationScheme to NTLM or NTLM v2.
- Specify username, password, host, domain in HttpOutboundAdapter.
- Specify HttpOutboundAdapter.method = POST, GET, DELETE, PUT
- In the Agent, specify the namespaces in Outbound Request Parameters. If the data is being sent from dictionaries, choose Dictionaries.

# Configuring Service Link to call REST APIs #3

- Pick a dictionary, a field from the dictionary, and then put into the Service Data Mapping field and create the corresponding Parameter. Apply and then save.
- After this you may have a Service Data (dictionary) field #AuthDictionary.billingID# that has been mapped to an Agent parameter “billingID”.
- If expecting anything back in the same call, set the Outbound Response Parameters similarly to receive the response in dictionary fields.
- If the outbound call does not have the hang around polling for a result, in the Agent  General tab, set Inbound Adapter to “None (Auto complete).”
- If the RESTful API you are calling expects a parameter as part of the URL (e.g. billing ID), you can set HttpOutboundAdapter.RoutingURL to https://api.rest-server.com/1.0/auth/#bilingID# (billing ID was setup as an Agent parameter in the Outbound Request Parameters in bullet point #11 above).

# Example: Agent properties for an agent that invokes the create/update account nsAPI

The screenshot displays the Cisco Prime Service Catalog interface. The top navigation bar includes 'Home', 'Control Agents', 'Manage Integrations' (selected), and 'View Transactions'. Below this, there are tabs for 'Agents', 'Transformations', and 'Adapters'. The left sidebar shows a tree view of agents, with 'NSAPI Create Account' selected and its 'Outbound Properties' sub-tab active. The main area is titled 'Configure Outbound Properties' and contains a table with the following data:

Name	Value
HttpOutboundAdapter.WsdlURL	
HttpOutboundAdapter.WsdlOperation	
HttpOutboundAdapter.RoutingURL	http://localhost:8080/RequestCenter/nsapi/directory/accounts/update
HttpOutboundAdapter.AcceptUntrustedURL	false
HttpOutboundAdapter.ContentType	application/xml
HttpOutboundAdapter.TimeOut	180000
HttpOutboundAdapter.ProcessResponse	false
HttpOutboundAdapter.RequestHeaders	
HttpOutboundAdapter.AuthenticationScheme	ANONYMOUS
HttpOutboundAdapter.AuthenticationScopeHost	
HttpOutboundAdapter.AuthenticationScopePort	
HttpOutboundAdapter.AuthenticationScopeRealm	
HttpOutboundAdapter.Username	*****
HttpOutboundAdapter.Password	*****
HttpOutboundAdapter.Host	
HttpOutboundAdapter.Domain	
HttpOutboundAdapter.SaveRefField	false
HttpOutboundAdapter.method	Post
HttpOutboundAdapter.RefFieldXPath	
HttpOutboundAdapter.RefFieldPattern	
HttpOutboundAdapter.CancelIdentifierXPath	/message/task-canceled
HttpOutboundAdapter.UsernameAlias	username
HttpOutboundAdapter.PasswordAlias	password
HttpOutboundAdapter.AppendUsernamePassword	true

## Example: Outbound Transformation (for forming the REST request payload)

```
<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet version="1.0"
  xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
  <xsl:output method="xml" indent="yes" />
  <xsl:template match="/">
<account>
  <name>
    <xsl:value-of select="/message/task-started/agent-parameter[name='accountName']/value" />
  </name>
  <accountType>
    <xsl:value-of select="/message/task-started/agent-parameter[name='accountType']/value" />
  </accountType>
  <description>
    <xsl:value-of select="/message/task-started/agent-parameter[name='description']/value" />
  </description>
  <billingRateGroup>
    <xsl:value-of select="/message/task-started/agent-parameter[name='BillingRateGroup']/value" />
  </billingRateGroup>

  <customAttribute name="ProviderTarget">
    <xsl:value-of select="/message/task-started/agent-parameter[name='ProviderTarget']/value" />
  </customAttribute>
  :
  <customAttribute name="BillToOUID">
    <xsl:value-of select="/message/task-started/agent-parameter[name='BillToOrganizationID']/value" />
  </customAttribute>

  <organizationalUnits>
    <organizationalUnit>
      <organizationalUnitName>
        <xsl:value-of select="/message/task-started/agent-parameter[name='accountName']/value" />
      </organizationalUnitName>
    </organizationalUnit>
  </organizationalUnits>
</account>
</xsl:template>
</xsl:stylesheet>
```

# Example: Agent properties for an agent that invokes the read account nsAPI

The screenshot displays the Cisco Prime Service Catalog interface. The top navigation bar includes 'Home', 'Control Agents', 'Manage Integrations' (selected), and 'View Transactions'. Below this, there are tabs for 'Agents', 'Transformations', and 'Adapters'. The left sidebar shows a tree view of agents, with 'NSAPI Get Account' selected and its 'Outbound Properties' tab active. The main area is titled 'Configure Outbound Properties' and contains a table of configuration parameters.

Name	Value
HttpOutboundAdapter.WsdlURL	
HttpOutboundAdapter.WsdlOperation	
HttpOutboundAdapter.RoutingURL	http://localhost:8080//RequestCenter/nsapi/directory/accounts/name/\$AccountName\$
HttpOutboundAdapter.AcceptUntrustedURL	false
HttpOutboundAdapter.ContentType	application/xml
HttpOutboundAdapter.TimeOut	180000
HttpOutboundAdapter.ProcessResponse	true
HttpOutboundAdapter.RequestHeaders	
HttpOutboundAdapter.AuthenticationScheme	BASIC
HttpOutboundAdapter.AuthenticationScopeHost	
HttpOutboundAdapter.AuthenticationScopePort	
HttpOutboundAdapter.AuthenticationScopeRealm	
HttpOutboundAdapter.Username	*****
HttpOutboundAdapter.Password	*****
HttpOutboundAdapter.Host	
HttpOutboundAdapter.Domain	
HttpOutboundAdapter.SaveRefField	false
HttpOutboundAdapter.method	Get
HttpOutboundAdapter.RefFieldXPath	
HttpOutboundAdapter.RefFieldPattern	
HttpOutboundAdapter.CancelIdentifierXPath	/message/task-canceled
HttpOutboundAdapter.UsernameAlias	username
HttpOutboundAdapter.PasswordAlias	password
HttpOutboundAdapter.AppendUsernamePassword	true



## Example: Inbound Transformation (for capturing some data element from the REST response and updating it back to the service form)

```
<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet version="1.0"
    xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
  <xsl:output method="xml" indent="yes" />
  <xsl:template match="/">
<message>
  <xsl:attribute name="channel-id">
  <xsl:value-of select="//@[local-name()='channel-id']" />
  </xsl:attribute>
  <send-parameters>
    <agent-parameter>
      <name>AccountID</name>
      <value><xsl:value-of select="/message/account/accountId"/></value>
    </agent-parameter>
  </send-parameters>
</message>
</xsl:template>
</xsl:stylesheet>
```

# Preview of 10.1 Enhancements – UI and Billing Rates

# Coming up next: New service form look and feel

Cisco Cloud Services Angela Fong 1 X

## Sign Me Up


← **1 Cloud Details** → **2 Cloud Access** → **3 Cloud Plan** → **4 Cloud Network** → **5 Cloud Billing** →

### Cloud Details

\* My Cloud Name  ?

Description  ?

\* Region  ?



Sign up now to create your own cloud plan. You can set up multiple plans for your organization to meet different needs. The access permissions and billing for these plans are fully segregated for individual tenants.

#### Pricing Summary

VM Size	vCPU	RAM (MB)	Boot Disk (GB)	Local-Ephemeral Disk (GB)	Monthly Price
Small	1	2048	50	50	\$43.86
Medium	2	4096	50	250	\$175.44
Large	4	8192	50	500	\$350.88
X-Large	8	16384	50	1000	\$700.00
XX-Large	8	32768	50	1000	\$804.00

**Additional Storage:** \$0.13 per GB

One-time Cost Monthly Cost ↻

Cancel Previous **Next**

# Coming up next: New service form look and feel (more)

Cisco Cloud Services Angela Fong 1 X

## Launch Trial Instance

1 Instance Details → 2 Password → 3 EULA → 4 Review & Submit

### Instance Details

\* Instance Name:  ?

Description:

\* Network Type: Private ?

\* Image: RHEL-UNMANAGED-6\_40-6-I ?

\* Flavor: ucs-b.small ?

Additional Storage (GB): 10

\* Expiration Date: 12/25/2013 ?

Please use this no-cost service to create an express instance.  
Each express tenant is entitled a plan with up to 2 VMs and a total of 4x8 (vCPUxvRAM) configuraiton.

Instance Flavor	
Name	ucs-b.small
vCPU	1
vRAM (GB)	2
Root Disk (GB)	50
Ephemeral Disk (GB)	0
Swap Disk (MB)	0

#### Tenant Quota

**Instances (0)** 2 Available

**vCPU (0)** 4 Available

**vRAM (GB) (0)** 8 Available

Cancel Previous **Next**

# Coming up next: Support for “Unit Rate” calculation

Cisco Prime Service Catalog

admin admin Demand Management

Account Agreement Billing Rates

Demand Management > Billing Rates

+ Add

Base Rate Plan

- Base CPU Rates
- Base Memory Rates
- Base Storage Rates
- Base VM Rates

**Billing Rate Definition** | Billing Rate Table

\*Display Name: Base CPU Rates

\*Name: BiBaseCPURate

\*Service Item Type: Cloud Quota

\*Rate Group: Base Rate Plan

**Unit Rate:**

Description: CPU rate per unit

**Billing Rate Attributes**

Name	Billing	Memo Field
Name	<input type="checkbox"/>	<input checked="" type="checkbox"/>
vCPUs	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
VMs	<input type="checkbox"/>	<input checked="" type="checkbox"/>
RAM (in GB)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Storage (in GB)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
One-Time Cost	<input type="checkbox"/>	<input type="checkbox"/>
Recurring Cost (per month)	<input type="checkbox"/>	<input type="checkbox"/>
Cloud Tenant	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**Billing Rate Operations**

Operations	Apply?
ReserveCPU	<input checked="" type="checkbox"/>
ReserveInstance	<input type="checkbox"/>
ReserveRAM	<input type="checkbox"/>
ReserveStorage	<input type="checkbox"/>
ReserveVolume	<input type="checkbox"/>
Terminate	<input type="checkbox"/>

Save Delete

Thank you.

