

Avaya Solution & Interoperability Test Lab

Configuring Lombardi Teamworks with Avaya Communications Process Manager to Provide a Solution for Avaya Communications Enabled Business Processes - Issue 1.0

Abstract

These Application Notes describe the procedures for configuring Lombardi Teamworks with Avaya Communications Process Manager (CPM) to provide a solution for Avaya Communications Enabled Business Processes (CEBP). For these Application Notes, a sample Avaya CEBP solution for processing fraudulent credit card transactions is presented.

Information in these Application Notes has been obtained through DevConnect compliance testing and additional technical discussions. Testing was conducted via the DevConnect Program at the Avaya Solution and Interoperability Test Lab.

1. Introduction

These Application Notes describe the procedures for configuring Lombardi Teamworks with Avaya Communications Process Manager (CPM) to provide a solution for Avaya Communications Enabled Business Processes (CEBP). For these Application Notes, a sample Avaya CEBP solution for processing fraudulent credit card transactions is presented.

Figure 1 illustrates the sample configuration utilized for these Application Notes. Lombardi Teamworks is a Business Process Management (BPM) system that, when used in conjunction with Avaya CPM, provides continuous closed-loop communications for Avaya CEBP. Lombardi Teamworks manages the overall process, tasks, etc. and utilizes Avaya CPM for continuous closed-loop communications. Lombardi Teamworks was installed [4] on a PC with the Microsoft Windows Server 2003 R2 operating system (Host or Local PC). Additionally, the Host PC also had the following installed:

- Oracle Database 10g Enterprise Edition
- Java® 2 Runtime Environnent, Standard Edition
- JBoss® Application Server

Avaya CPM is a Service-Oriented Architecture (SOA) based platform that exposes web services to enable continuous, closed-loop communications. All Avaya CEBP communications are continuous and "closed loop", e.g., information about actions taken by users can be communicated back to the originating system that triggers an event, affecting the business process in real-time. Once an action is set in motion, Avaya CEBP helps assure that the business process keeps moving toward resolution. Refer to [1] and [2] for required/optional hardware/software components regarding Avaya CPM deployments.

For this sample configuration, Avaya CPM was comprised of a server hosting the Avaya CPM software application, Avaya SIP Enablement Services, Avaya Meeting Exchange Express Edition (Meeting Exchange), Avaya Voice Portal and Nuance RealSpeak. The Avaya Voice Portal VPMS and MPP components were configured on one physical server. Avaya CPM provided notification for fraudulent credit card transactions to users, where a user has an account defined on Avaya CPM.

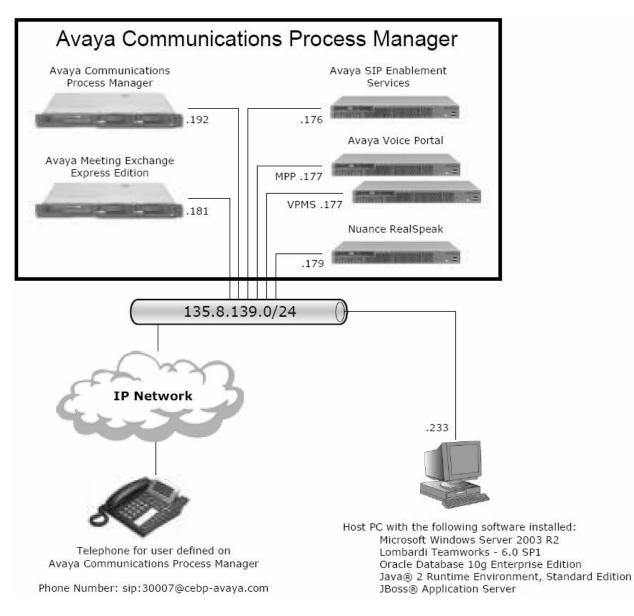


Figure 1: Sample Configuration

2. Equipment and Software Validated

The following equipment and software versions were used for this sample configuration:

Equipment	Software Version		
Host PC - Microsoft Windows Server 2003 R2			
 Lombardi Teamworks - 6.0 SP1 	6.0.1		
Oracle Database 10g Enterprise Edition	10.2.0.1.0		
• Java® 2 Runtime Environment, Standard Edition	build 1.5.0_14-b03		
JBoss® Application Server	4.0.5		
Avaya Communications Process Manager - 2.1			
Avaya Communications Process Manager	cpm 2.1.53		
Avaya SIP Enablement Services	4.0-04.0.033.6		
Avaya Meeting Exchange Express Edition	2.5.60.0		
Avaya Voice Portal	4.0.0.2901		
Nuance RealSpeak	4.0.10		

Table 1: Equipment and Software Versions

3. Avaya Communications Process Manager Configuration

This section describes the configuration utilized by Avaya CPM to interoperate with Lombardi Teamworks. For this sample configuration, it is assumed that Avaya CPM is provisioned to communicate with Avaya communication resources, e.g., Avaya Voice Portal, Avaya Meeting Exchange and Avaya SIP Enablement Services. Refer to [1] and [2] for additional information regarding the administration of Avaya CPM. Avaya CPM has two user interfaces:

- Web Portal A web-based thin client that lets users manage their account, e.g., provision contact rules so their notifications are based on their preferences and availability. For this sample configuration, the Web Portal interface was used to invoke web services [2] to both users and transient users. The Web Portal is accessed over a secure connection by entering https://<Avaya CPM IP Address or Fully Qualified Domain Name (FQDN)> into a web browser's Uniform Resource Locator (URL) bar.
- Operations Administration and Maintenance (OAM) A web-based thin client user interface that lets a system administrator configure Avaya CPM with connectivity to Avaya communication resources. The OAM interface also provides access to system status, statistics, licenses, security certificates, logs, and alarms. For this sample configuration, the OAM interface was used to provision Avaya CPM for dial-in services. The OAM interface is accessed over a secure connection by entering https://<Avaya CPM IP Address or FQDN>/admin into a web browser's URL bar.

Note: Some features described in these Application Notes require licensing. If a required feature is not enabled or there is insufficient capacity, contact an authorized Avaya account representative to make the appropriate changes.

3.1. Verify Avaya Communications Process Manager

This section describes the steps for verifying a user account that has been provisioned on Avaya CPM. It is assumed this account is operational and has an associated telephone configured.

Step	Descr	iption							
3.1.1			M OAM i	nterface, open a user	r account as fol	lows:			
	 Click Account → Account Information. 								
	•			ount Information page, Note the Handle and User Password [<i>Not</i>					
	•			10			_		
		Shown, 3000	7] fields 1	respectively. This us	ser should also	have a Ph o	one Number		
		provisioned.							
		-							
]							
	0\/0\/0			Communicatio					
			AVAYA	Account Administration	er	Account Help Logout			
		-	formation @ <u>Help</u>	Save					
			Account	Edit User Password:					
			Change PIN	Roles					
			Points Of Contact	Administrator:	Yes				
		Time Profiles	Edit CPM User: Attributes	Yes					
			Notification Profiles	Handle:	Jenny				
			Notification Filters	ID Number:	30007				
			List Management	Edit Display Name:	1				
			Create Account	Edit First Name: Edit *Last Name:	Jenny Johnson				
			User Search	Edit *Common Name(s):	Jenny				
			In order to modify a field, click on	Edit Phone Number:	sip: 30007@cebp-avaya.com				
			the "Edit" button. Those attributes	Edit Mobile Phone Number:					
			marked with a red asterisk (*)are	Edit Fax Number:					
			required and must have a value.	Edit Pager Number: Edit Electronic Mail Address:					
				Edit Honorific:	Ms.				
				Edit Title:					
				Edit Title:					
				Edit Affiliation:	Employee				
				Edit Manager:					
				Edit Department: Edit Organization:					
				Edit Room:					
				Edit Street:					
				Edit City:					
				Edit State:					
				Edit Postal Gode: Edit Language:	US English				
				Edit Time Zone:	America/New_York				
				Applications					
				Edit Advisory Service:	Yes				
				Edit Click To Find Service:	Yes				
				Edit Notification And Response Service:	Yes				
					Save				
			Jenny	Copyright © 2007 Avaya, Inc. A	Il Richts Recorved.	CPM v2.1			
		L		Sopringin & 2007 Analys, Inc. A	an and the SINES.				

REB; Reviewed: SPOC 8/20/2008

4. Lombardi Teamworks Configuration

This section describes the configuration for enabling Lombardi Teamworks to interoperate with Avaya CPM. The configuration in this section assumes that Lombardi Teamworks is installed and has network connectivity with Avaya CPM. Refer to **Appendix B** for information regarding installation requirements for Lombardi Teamworks. Refer to [4] for information regarding the administration of Lombardi Teamworks.

4.1. Install Avaya Specific System Components

This section describes the steps for installing Avaya specific system components via graphical user interface provided in the Authoring Environment. These components will enable processes for processing fraudulent credit card transactions.

Step	Description
4.1.1	Repeat the steps in Appendix B3 to install Avaya specific system components. Contact an
	authorized Avaya account representative to obtain the Avaya settings file.

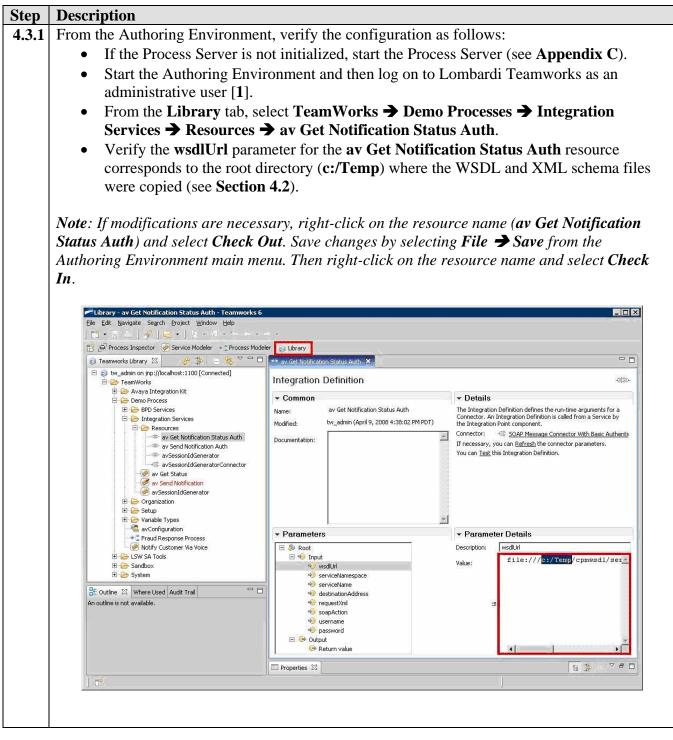
4.2. Web Services Description Language and XML Schema

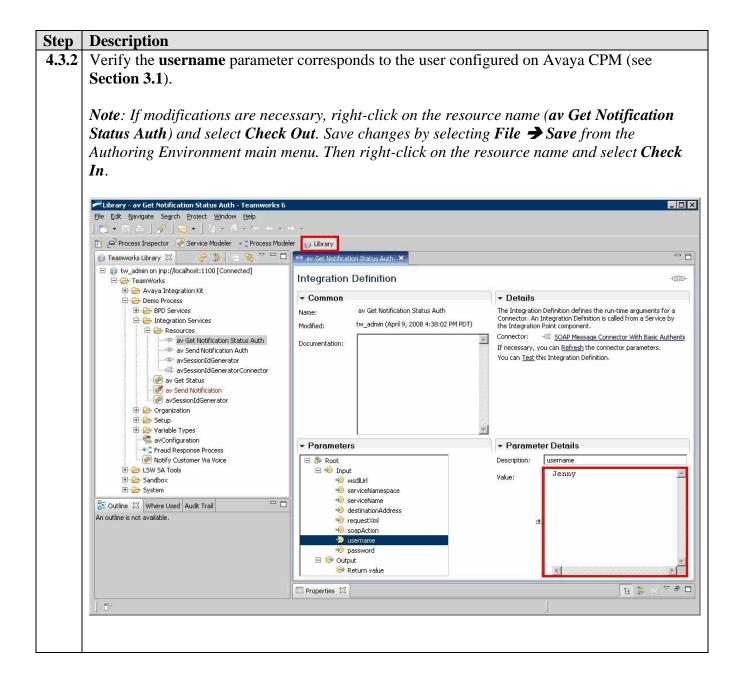
This section describes the steps to account for the directory where the Web Services Description Language (WSDL) and XML schema files are located on the Host PC. These files are utilized by the Avaya Specific Components installed in **Section 4.1**. Contact an authorized Avaya account representative to obtain theses files.

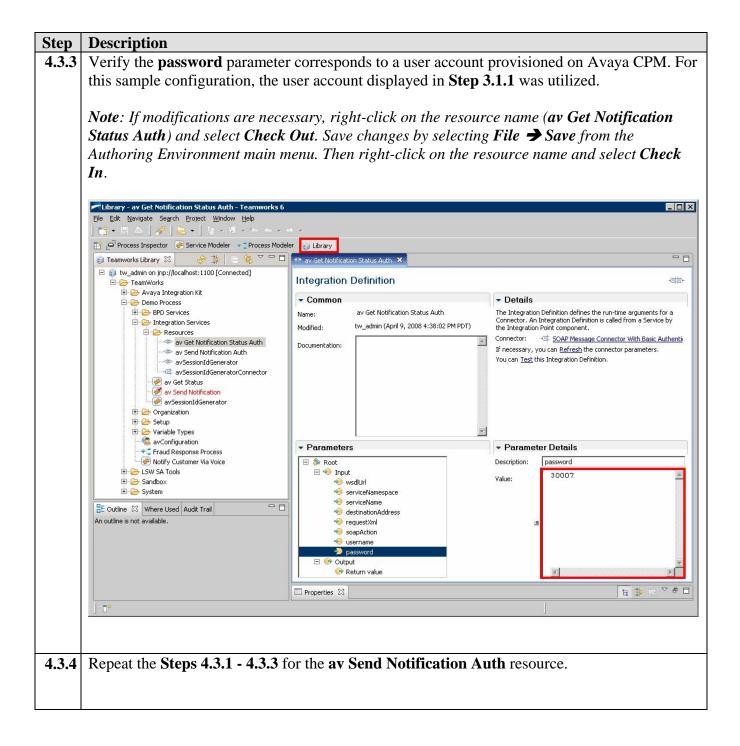
Step	Description							
4.2.1	Copy the WSDL and XML schema files to a directory on the Host PC. For this sample							
	configuration, the files were copied to: C:\Temp. The directory where the files are copied must							
	match the directory denoted by the schemaLocation variable in the files.							
	• Open the NotificationAndResponseService.xsd file with a text editor to verify the							
	setting for the schemaLocation variable.							
	• If the root directory where the WSDL files were copied is not equal to the							
	schemaLocation variable, edit the schemaLocation variable appropriately and							
	save the changes.							
	xml version="1.0" encoding="UTF-8"?							
	Definition of the common types that are used in various Diamond Services.							
	>							
	<rsd:schema targetNamespace="http://xml.avaya.com/diamond/schema/2007/07/NotificationAndResponse</rsd:schema 							
	Service"							
	<pre>xmlns="http://www.w3.org/2001/XMLSchema" xmlns:externalcommon="http://xml.avaya.com/diamond/schema/2007/07/external-</pre>							
	common "							
	xmlns:nrsSchema="http://xml.avaya.com/diamond/schema/2007/07/NotificationAndResponse							
	Service"							
	<pre>xmlns:xsd="http://www.w3.org/2001/XMLSchema" elementFormDefault="qualified"></pre>							
	erementrormberaurt- quarried >							
	minor_version=1							
	<pre><xsd:import <="" namespace="http://xml.avaya.com/diamond/schema/2007/07/external-</pre></th></tr><tr><th></th><th>common" th=""></xsd:import></pre>							
	<pre>schemaLocation="file:///C:/Temp/cpmwsdl/services/external-common.xsd"/></pre>							
4.2.2	Repeat Step 4.2.1 for the following files:							
4.2.2	NotificationAndResponseService.wsdl							
	 SessionIdGenerator.wsdl 							
	AdvisoryService.xsd							
	AdvisoryService.wsdl							

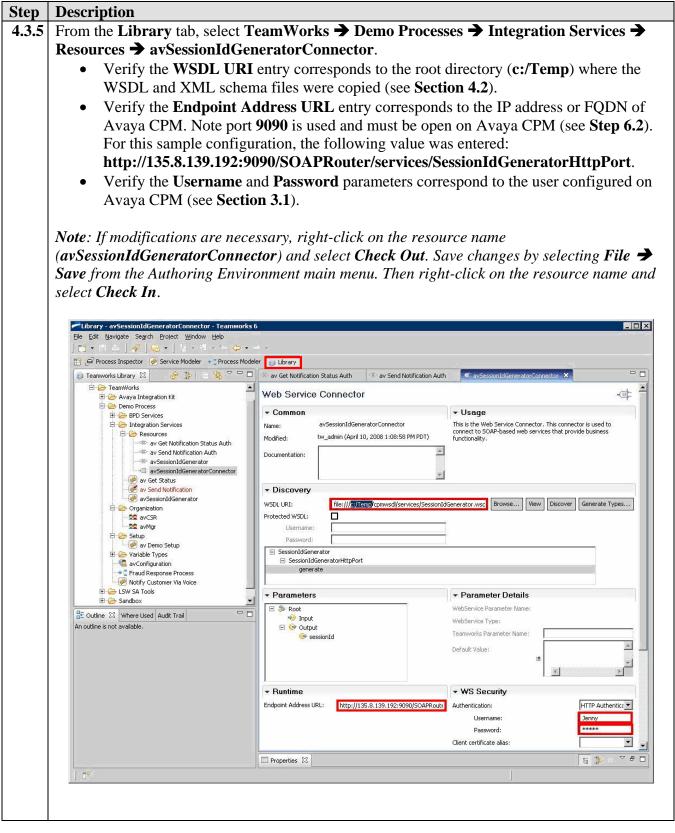
4.3. Modify Avaya Specific Components

This section describes the steps to modify the Avaya Specific Components installed in **Section 4.1**. These steps enable Avaya CPM to process fraudulent credit card transactions delivered from Lombardi Teamworks.







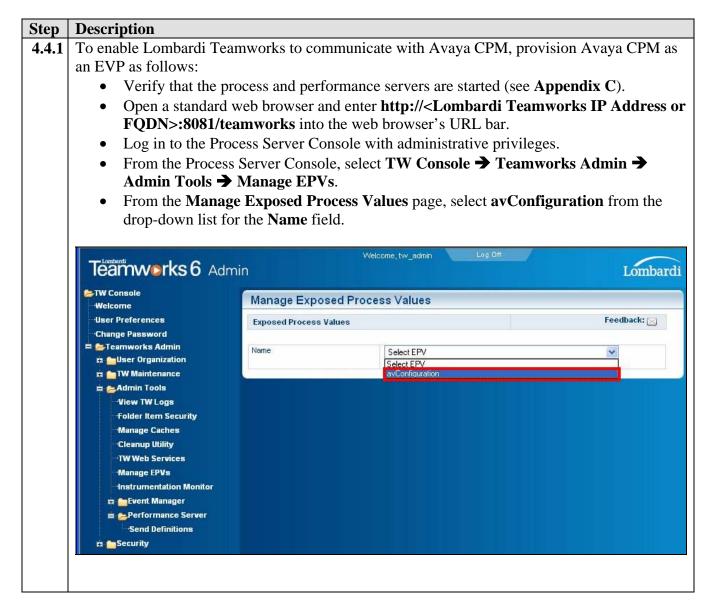


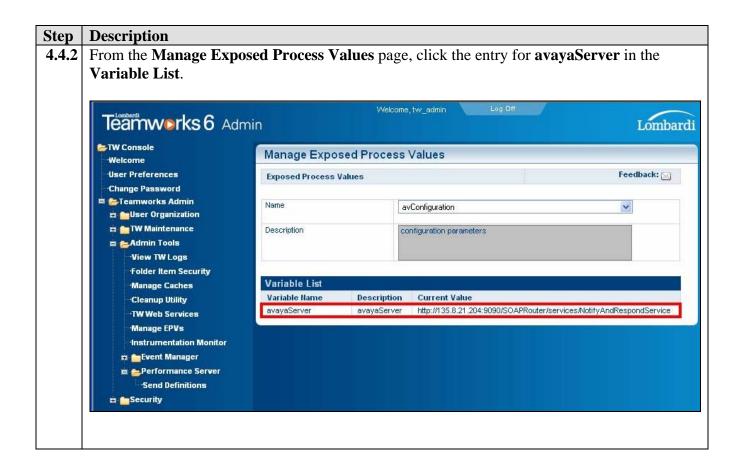
Step	Description										
4.3.6	From the Library tab, selec	t TeamWorks → Demo Proces	ses 🗲 avConfiguration.								
	• Verify the Exposed Process Value variable is configured. For this sample configuration, it was set to avayaServer .										
	•	Value and Current Value entries	1								
		FQDN of Avaya CPM. Note port 9090 is used and must be open on Avaya CPM (see									
	Step 6.2). For this sample configuration, the following value for the Default Value was entered:										
	entered: http:// 135.8.139.192:9090/SOAPRouter/services/NotifyAndRespondService.										
	nup:// 155.8.159.192;9090/80Ar Kouler/services/NoulyAnakesponaService.										
	<i>Note:</i> If modifications are necessary, right-click on the resource name (<i>avConfiguration</i>) and										
	v v	nges by selecting File <i>→</i> Save from									
		on the resource name and select									
	Library - avConfiguration - Teamworks 6 Elle Edit Navigate Search Project Window Help										
] 📸 • 📰 💩] 🔗] 🔂 •] ½ • 전 • ← 🗇 • -	• • <u> </u>									
	Process Inspector Service Modeler	er 🧊 Library									
	🧊 Teamworks Library 🕱 🔗 🏇 🖃 🛱 🏹 🗖 🗖	av Get Notification Status Auth 🕸 av Send Notification Auth 🗠 a	vSessionIdGeneratorConnector								
	[i] tw_admin on jnp://localhost:1100 [Connected] [i] E TeamWorks	Exposed Process Value	2								
	Avaya Integration Kit	- Common	✓ Details								
	BPD Services	Name: avConfiguration	Feedback E-mail Contact:								
	Integration Services Organization	Modified: tw_admin (April 11, 2008 1:58:02 PM PDT)	External Description:								
	🗄 🗁 Setup	Documentation:	1								
	Variable Types avConfiguration										
	Fraud Response Process										
	🗄 🗁 LSW SA Tools	 Exposed Process Value Variables 	✓ Variable Details								
	B 🦢 Sandbox B (⇒ System	avayaServer (String) Add	External Name: avayaServer								
		Remove	Variable Name: avayaServer								
	🗄 Outline 🛛 Where Used Audit Trail		External Description:								
	An outline is not available.										
			Default Value: http://135.8.139.192:9090/SOAPRoute								
			Current Value: http://135.8.139.192:9090/SOAPRouter/								
			In-Progress Tasks Use New Values:								
			Variable Type: Select New								
		Properties 🔀	<u></u> E ⇒ → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → → →								
] [•										

4.4. Configure Process Server

This section describes the steps for configuring Lombardi Teamworks Exposed Process Values (EPVs) via the Lombardi Teamworks Process Server Console. The Process Server Console is made up of the following major areas, parts of which may not be accessible to a user depending on specified user permissions:

- User Organization
- Teamworks Maintenance
- Administrative Tools
- Security.





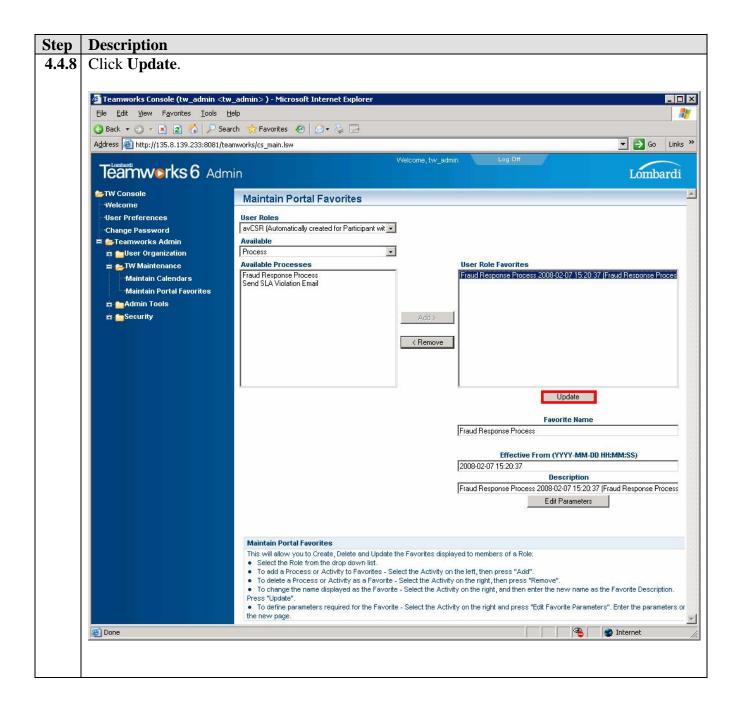
Teamworks 6 Ad	min	Welcom	e, tvv_admin Log Off		Lomb	
Welcome	Manage Exposed Process Values					
·User Preferences	Exposed Process	Values			Feedback: 🔀	
Change Password E	Name		avConfiguration			
r: Maintenance	Description	c	configuration parameters			
Folder Item Security	Variable List					
···Cleanup Utility	Variable Name	Description	Current Value			
→TW Web Services	avayaServer	avayaServer	http://135.8.21.204:9090/SOAPRou	ter/services/NotifyAnd	RespondService	
··Manage EPVs		110 B	10.			
Instrumentation Monitor	Schedule Chang		IS		Modifie	
Event Manager	Effective Date Value			Modified By	Date	
🚊 🚘 Performance Server			New	Edit	Delete	

Step	Description	
4.4.4	From the Exposed Process Va	alue page, provision as displayed.
	 Enter the URL of Avay must include: 9090/SO Step 4.3.6. Enter a time greater that default setting for the t 	ya CPM as displayed. For this sample configuration the URL DAPRouter/services/NotifyAndRespondService as defined by an the default entry for the Schedule to interval field. Using the time will result in an error (see Step 6.1). For this sample edule to interval field was provisioned for two minutes greater
		- Exposed Process Value - Microsoft Internet Explorer
	Exposed Process Value	
	Variable name: Reason:	avayaServer
	Value: Schedule to interval:	http://135.8.139.192:9090/S0APRouter/services/NotifyAndRespondService 04/07/2008 14:40:02
	OK Cancel	
	Done	🔮 Internet

Teamworks 6 Add	min		Welco	me,twv_a	idmin	Log Off	=		Lomba	
TW Console Welcome		Manage Exposed Process Values								
User Preferences	Exposed Pr	ocess Val	ues for:					Fee	Feedback: 🖂	
Change Password ≓ Samworks Admin	Name	Name			avConfiguration					
n muser Organization	Description			configuration parameters			1			
🛱 📂 Admin Tools										
-View TW Logs Folder Item Security	CT ST ST ST ST ST								1.4	
Manage Caches	Variable List Variable Name Description Current Value									
Cleanup Utility	avayaServer		avayaServe		://135.8.21.204:	9090/SOAPF	Router/services	s/NotifyAndResp	ondService	
TW Web Services	Designation of the	-		1000						
Manage EPVs Instrumentation Monitor	Schedule		/ View Deta	ails				Modified	Modified	
🖽 📷 Event Manager	Date 04/07/2008	Value				Ву	Date 04/07/2008			
🖹 🖻 Performance Server	14:40:02	http://135	5.8.139.192:909	90/SOAPF	Router/services/	NotifyAndRe	espondService	tvv_admin	14:39:43	
Send Definitions							New	Edít	Delete	

Description								
Verify the change to the I	Verify the change to the MPV is successful as follows:							
• Following the time when the EPV was scheduled to update, refresh to the Manage								
e			1 /	0				
-	10		ver has been undated					
e veniry die	entry for the	avayabei	ver has been updated.					
	and the second	1021	Los Off					
Teamworks 6 Adm	in	Welcon		Lombardi				
ICarrive R30 Aum				LUIIDarui				
ETW Console	Manage Expo	sed Process	s Values					
-User Preferences	Exposed Process	Feedback: 🖂						
-Change Password	Exposed Frocess	auros.						
🛱 😂 Teamworks Admin	Name		avConfiguration	~				
	-							
and the second state of th	Description		configuration parameters					
View TW Logs								
Folder Item Security		- 10.92						
-Manage Caches	and the second se							
Cleanup Utility	A REAL PROPERTY AND A REAL	elouoeo paterinasse da	In a standard property data to the standard st	NotifyApdRespondService				
	urujusci i ci	uruyuberrei		Notify Andrespondoer Nee				
Instrumentation Monitor								
🛱 🔚 Event Manager								
E Performance Server								
Send Definitions								
n Security								
	Verify the change to the I Following the tim Exposed Process O Verify the Verify the	Verify the change to the MPV is succe Following the time when the Ele Exposed Process Values page. Verify the entry for the Verify the entry for the Manage Expo Exposed Process Manage Expo Exposed Process Name User Preferences Change Password TW Maintenance Admin Tools View TW Logs Folder Item Security Manage Caches Cleanup Utility TW Web Services Manage EPVs Instrumentation Monitor R Send Definitions	Verify the change to the MPV is successful as fo • Following the time when the EPV was so Exposed Process Values page. • Verify the entry for the avayaSer • Verify the entry for the avayaSer • Velcome •	Verify the change to the MPV is successful as follows: Following the time when the EPV was scheduled to update, refresh to Exposed Process Values page. • Verify the entry for the avayaServer has been updated. Velcome, tw_admin Velcome, tw_admin TW Console Welcome Welcome Welcome Welcome Welcome Welcome Welcome Welcome Welcome Welcome Welcome Welcome Welcome Welcome Welcome Welcome Velcome Welcome V				

Step	Description								
4.4.7	To enable a user to start a process or a service from the Favorites list, provision Portal								
	Favorites as follows:								
	• From the Proc	ess Server Console, select TW Console → Teamworks Admin → TW							
	Maintenance 🗲 Manage Portal Favorites.								
	• From the Manage Portal Favorites page:								
	• Select avCSR (Automatically created for Participant with Id:3) from the								
	drop-down list for the User Roles field.								
	• Select Process from the drop-down list for the Available field.								
	• Select Fraud Response Process and click Add>.								
	NALES								
	Personal des anticipation de la companya de la comp	_admin>) - Microsoft Internet Explorer							
	Eile Edit View Favorites Iools E ③ Back → ③ → 💌 😰 🏠 🔎 Sea	leip 🥂							
	Address Address http://135.8.139.233:8081/tea								
		Welcome, tw. admin Log Off							
	Teamworks 6 Adm	in Lombardi							
	►TW Console	Maintain Portal Favorites							
	Welcome User Preferences	User Roles							
	Change Password	avCSR (Automatically created for Participant wit 💌							
	E Teamworks Admin	Available Process							
	🛱 👝 TW Maintenance	Available Processes User Role Favorites [Fraud Response Process Fraud Response Process 2008-02-07 15:20:37 (Fraud Response Proces)							
	•Maintain Calendars •Maintain Portal Favorites	Send SLA Violation Email							
	🛱 🧰 Admin Tools								
	🛱 🚞 Security	Add>							
		< Remove							
		Update							
		Favorite Name							
		Effective From (YYYY-MM-DD HH:MM:SS)							
		Description							
		Edit Parameters							
		Maintain Portal Favorites This will allow you to Create, Delete and Update the Favorites displayed to members of a Role:							
		 Select the Role from the drop down list. To add a Process or Activity to Favorites - Select the Activity on the left, then press "Add". 							
		 To delete a Process or Activity as a Favorite - Select the Activity on the right, then press "Remove". To change the name displayed as the Favorite - Select the Activity on the right, and then enter the new name as the Favorite Description. 							
		Press "Update". To define parameters required for the Favorite - Select the Activity on the right and press "Edit Favorite Parameters". Enter the parameters or							
		the new page.							
	Cone Done	🔰 🔤 🦉 Internet 🥢							



Step	Description		
4.4.9	Add Internal Users on	Lombardi Teamworks as follows:	
	• From the Proce	ess Server Console, select TW Console → Teamworks A	dmin 🗲
	Security 🗲 To	eamworks Provider 🗲 Maintain Internal Users.	
	•	age Internal Users page:	
		descriptive name in the User Name field.	
		descriptive name in the Full Name field.	
		password in the Password and Confirm Password fields	respectively
	• Click A	1	respectively.
	0 Click I	luu.	
	🖉 Teamworks Console (tw_admin <tw< th=""><th>_admin>) - Microsoft Internet Explorer</th><th></th></tw<>	_admin>) - Microsoft Internet Explorer	
		elp	2
	🔇 Back 🔹 🕘 👻 📓 🐔 🔎 Sear	rch 👷 Favorites 🛛 🖉 🚽 🤯 🔄	
	Address Addres	amworks/cs_main.lsw	💌 🛃 Go 🛛 Links 🌺
	Teamworks 6 Adm	Velcome, tw_admin Log Off	
	IEdi IIVVOIKSO Adm		Lombardi
	➢TW Console ₩elcome	Maintain Internal Users	<u></u>
	User Preferences	Retrieve Profile	
	Change Password	Retrieve	
	E Ceamworks Admin	Internal Teamworks Users Internal Teamworks User Details	
	🛱 🛅 TW Maintenance	User Name twuser1	
	n Coourity	Full Name twuser1	
	🚊 🚘 Security 🚊 🚒 Teamworks Provider	Password ++++++	
	Maintain Internal Users	Confirm Password	
	Maintain Groups	Last Login	
	Group Membership	Disable User	
		Delete Add Update Clear	
		Maintain Independ Taamaunaka Unara	
		Maintain Internal Teamworks Users This will allow you to Create, Delete and Update Users within Teamworks:	
		 Retrieve Profile -Enter a string to identify the user names to be displayed, then press "Retrieve". To create a User - Enter the details on the right, then press "Add". 	
		 To delete a User - Select the User on the left, then press "Delete". To update a User - Select the User on left, alter the details on the right, press "Update". 	
		If you make any changes on this screen you must use the Manage Caches screen to update the UserCache before the	changes will take effect.
	6		j Internet
4.4.10	Repeat Step 4.4.9 to a	dd two additional users configured as follows:	
	1 1	eld: twuser2, Full Name field: twuser2, Password field: t	wuser2
		eld: twuser3, Full Name field: twuser3, Password field: t	
		tiu. Iwusels, run manie neiu. Iwusers, rassworu neiu. I	wusti J.

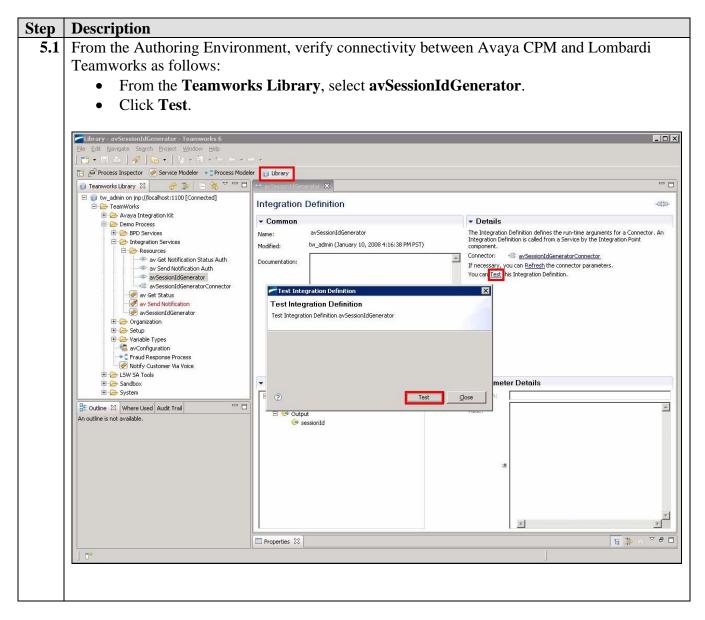
4.5. Add Users to Avaya Specific Components

This section describes the steps to add the users to the Avaya Specific Components installed in **Section 4.1** and modified in **Section 4.3**.

tep	Description		
1.5.1	 From the Teamword Organization → a Right-click on the r Select the users cree Save changes by set 	conment, add the users created in Storks Library, select TeamWorks w wCSR. resource name (avCSR) and select eated in Steps 4.4.9 - 4.4.10 and cli- electing File → Save from the Aut SR and select Check In.	→ Demo Processes → t Check Out. ick Add>.
	Ibbrary - ovCSR - Teamworks 6 Fle Edt Image: Segred Project Window Help Image: Segred Project Window Help	ler 🥡 Library	

5. Verification Steps

The following steps were used to verify the administrative steps presented in these Application Notes and are applicable for similar configurations in the field.



Step	Description			
5.2		-	, click Test . If successful, a value	e is returned for the sessionID
	parameter. If the	he test fails	, see Step 6.2 and Step 6.3 .	
	-			1
		Test Integ	gration Definition Results	×
		Test Integ	ration Definition Results	
		Integration De	finition Test Results	
		78		
	-			
		sessionId:	AAAAKvv6zY=HccYsg==	<u> </u>
				×
			120	
		(?)		⊆lose

Step	Description									
5.3	Validate connectivity between Avaya CPM and Lombardi Teamworks by imitating a									
	transaction for a Fraud Response Process as follows:									
	• Verify that the process and performance servers are started (see Appendix C).									
	• Open a standard web browser and enter http:// <lombardi address="" ip="" or<="" teamworks="" th=""></lombardi>									
	FQDN>:8081/portal into the web browser's URL bar.									
	• Log in to the Process Server Console with user privileges, e.g., select a user account									
	created in Steps 4.4.9 - 4.4.10 .									
	 Select New → Fraud Response Process. 									
	Teamworks Process Portal - Microsoft Internet Explorer									
	Eile Edit View Favorites Iools Help									
	S Back • S • E S Search 🛠 Favorites 🚱 😒 • 🌺 🕋 • 🔜 🎇 🖄									
	Address 🖉 http://135.8.139.233:8081/portal/jsp/getSavedSearch.do?startsWith=0&search=1#									
	Teamworks 6 Portal									
	My Lasks Inbox Inbox Inbox Inbox Image New + I III Suspend III> III Change Due Date • III Suspend III> III Change Due Date • III Suspend III									
	History Fraud Response Process									
	Alerts Organize by Task Show Search									
	My Projects Instances									
	Instance Name Process Definition Instance Due Date Task Subject Task Priority A Task Due Date A Run									
	javascript:doFavorite(1);									

Step	Description	
5.4	From the pop-up window, click Next >>.	
	http://135.8.139.233:8081 - Manually Enter Transaction - Microsoft Internet Explorer	
	Manually Enter Transaction	/iew Process Help 🙆
	Introduction	
	This wizard guides you through entering transaction details manually.	
	This process can also be automatically be triggered by a fraud detection engine or via interaction with Avaya.	Next >>
	Done In	nternet

http://135.8.139.233:8081 - Manually Enter Transaction		
Manually Enter Transaction	View Proces	<u>s F</u>
Transaction Record		
Vendor Address	Details Transaction I D: 3847759	7
Dba Name: The Apple Store	Trans Amount: \$256.36	1
Address1: 767 5th Avenue Address2:	Description: IPOD MP3 Player	1
	IFOD MES Flayer	2
City, State Zip: New York , NY 10153	N	
Contact Name: Steve Jobs	< Back Next >	>
Phone Number: (212) 336-4040		
Customer		
Name (First Middle Last): Joe Customer		
Account Number: 376687349823623		
Address1: 560 Peachtree Street		
Address2: Apt. 543		
City, State Zip: Atlanta , GA 30078		
Phone: (404) 555-1212		
Email: joe.customer@mindspring.com		

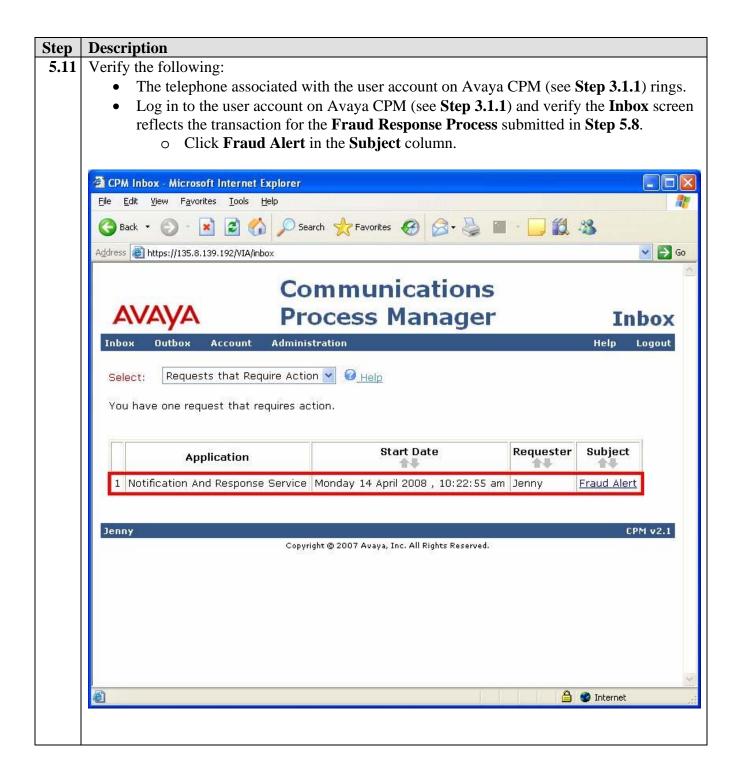
http://135.8.139.233:8081 - Manually Enter Transaction - Microsoft Internet Exp	plorer
Manually Enter Transaction	View Process
Confirmation	
The customer will be contacted with the following message:	
Fraud Alert	
There has been a possible fraud on your credit card. There is a transaction of \$ you recognize this transaction?	256.36 from The Apple Store. Do
1. yes 2. no	
	< Back Subm Advanced Demo Configuration

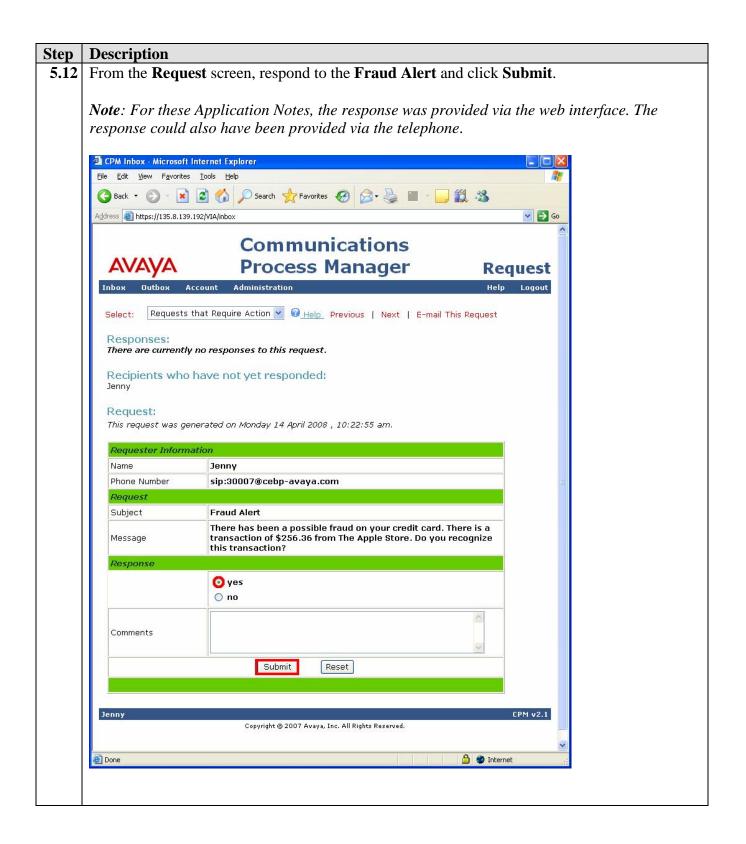
Step	Description					
5.7	Verify a user accord	unt on Avaya C	CPM is entered in t	he Requester U	J nique ID and	d Recipient
	Name fields. For t					
	3.1.1 was entered f				1	J
	A http://135.8.139.233-808	1 - Manually Enter Trans	action - Microsoft Internet Expl	orer		
			action - microsoft internet Expt	orei		
	Manually Enter Transa					🗿 <u>View Process Help</u>
	Notification Parameters	5				
	Requestor Id Requester Unique Id: Jen					
	Email Response Mode: non					
		e				
	Recipient List				-	
	Recipient Name	Preferred Lang	Timezone	Display Name	Contact List	Туре
	Jenny	en_US	America/New_York			internal
	Media Content List					
	Subject Message					
	Fraud Alert There has bee	n a possible fraud on your	credit card. There is a transaction	n of \$256.36 from The Apple	Store. Do you recognize	e this transaction
	Choice List					
	Choice Id					
	yes					Delete
	no					Delete
	Add a new row					
						ОК
	E Done					Internet
	_					

Step	Description
5.8	Click Submit.
	http://135.8.139.233:8081 - Manually Enter Transaction - Microsoft Internet Explorer
	Manually Enter Transaction
	Confirmation
	The customer will be contacted with the following message:
	Fraud Alert
	There has been a possible fraud on your credit card. There is a transaction of \$256.36 from The Apple Store. Do you recognize this transaction?
	1. yes 2. no
	<
	A state of the

р	Description						
.9	To view st	tatus of the transacti	on for the Fra	ud Respo	onse Process:		
	• Cli	ick History under M	Iy Tasks.				
	• Cli	ick the entry for Fra	ud Response	Process 2	212.		
		•	-				
	Teamworks Proce	ss Portal - Microsoft Internet Explorer					
		vorites Tools Help					
		🖹 💈 🏠 🔎 Search 📩 Favorites					
	Address 🕘 http://135.8	3.139.233:8081/portal/jsp/getSavedSearch.do?starts	With=08search=2#			user1 Help Preferen	▼ 2
	Teamwor	ks 6 Portal					Lombardi
	My Tasks	History					
	Inbox History	Alevy Alevy	📰 Change Due Date 🛛 📲 🛛 🖓 R	equest Help			Quick Search
	Help Requests	Search				Orga	anize by Task Show Search
	Alerts My Projects						
	Sample Project	Instances Instance llame	Process Definition	Instance Status	Task Subject	Task Priority 🔺	Task Due Date 🔺 🛛 Run
		Fraud Response Process:212	Fraud Response Process	Active	Task: Simulate Fraud system	Normal	04/16/08 12:00 PM
	Done						🖉 Internet

ep	Description								
10	Verify the S	tatus field	returns N	lew.					
	-								
	Teamworks Process P	ortal - Microsoft Interne	et Explorer						
	Eile Edit View Favorite:								
	🕝 Back 🔹 🕥 🕤 🗷	📔 🚮 🔎 Search	Ravorites 🚱	🖉 - 🍃 🛙	🔹 🗾 🇱 🦓				
	Address 🙋 http://135.8.139	.233:8081/portal/jsp/getProce	essDetails.do?bpdInstan	ceId=212					💌 🔁 G
	Teamworks	6 Portal						Log D#	
	My Tasks	History : Fraud	Response Proc	ess (Fraud Re	esponse Process:21	2)			
	Inbox History		end 🗈 🔳 🕼 A	ssign to Me 🧃 🧔	📔 🖬 Change Due Date 🛛	a 🗺 斗 📲 Aud	dit 🔏 Request Help	Add to Calendar	Quick Search
	Help Requests								
	Alerts My Projects	Instance Details							
	Sample Project	Process Definition:	Fraud Response P				Status:	Active	
		Instance Name: Instance ID:	Fraud Response Pr 212	rocess:212			Due Date:	04/28/08 9:19 AM	
		Tasks		-	-				Open Tasks 🔽
		Activity Name		Status	Participant	Priority 🔺	Duel		Run
		Check Response		New	tw_admin	Normal	04/16	V08 12:00 PM	
		Collaboration							Add Comment
		Туре	Date 🔺	2 	From	T	o Cor	nment	
		Documents							Add Document
		Name	Revision		Revision Date		Last Modified	Ву	
	Done	A							🔮 Internet
	Cone Done								Turcemer





Step	Description	l						
5.13	Following th	ne response	from the use	r on Ava	aya CPM, y	verify the Sta	tus field is up	pdated to
	Received. T	o complete	this transacti	ion. clicl	c 🖻 in the	Run column		-
				,				
	Teamworks Process P	ortal - Microsoft Interne	et Explorer					
	<u>File Edit View Favorite</u>	100 01 01 01 01 01 00 00 00 00 00 00 00						
	🔇 Back 🔹 🕥 - 💌	📔 🚮 🔎 Search	📩 Favorites 🚱 🎯 •	🍓 🖬 - 🗖	12 3			
	Address 🕘 http://135.8.139	.233:8081/portal/jsp/getProce	ssDetails.do?bpdInstanceId=212					So 🔁 Go
	Teamworks	6 Portal						Lombardi
	My Tasks		Beenenee Breese /Fr	aud Deenener	Breese (212)			Lombardi
	Inbox		Response Process (Fr and Die 🔳 🛙 🕋 Assign to Me			♦ + Audit 2 Request H	felp 🎬 Add to Calendar 🛛	Quick Search
	History Help Requests							
	Alerts My Projects	Instance Details				Status:	A construction	
	Sample Project	Process Definition: Instance Name:	Fraud Response Process Fraud Response Process:21				Active 04/28/08 9:19 AM	
		Instance ID:	212					
		Tasks		- 144				Open Tasks 👽
		Activity Name		Status	Participant	Priority 🔺	Due Date	Run
		Transaction Not Fi	raud	Received	avCSR	Normal	04/16/08 12:00 PM	
		Collaboration						Add Comment
		Туре	Date 🔺		From	То	Comment	
	Documents							Add Document
		Hame	Revision	Revision	Date	Last Mod	lified By	
	E							🔮 Internet
								· · · · · · · · · · · · · · · · · · ·

Step	Description							
5.14	From the pop	p-up windov	v, click C	OK.				
	Teamworks Process Po	and a second reading the second second second	xplorer					
	File Edit View Favorites	Tools Help	Favorites 🥝	🔗 - 🎽 🔳 - 🗖	12 3			17
	Address 🛃 http://135.8.139.	233:8081/portal/jsp/getProcessD	etails.do?bpdInstanceIo	d=212				💌 🋃 Go
	Teamworks	6 Portal						Lombardi
	My Tasks	History : Fraud Re	sponse Proces	ss (Fraud Respons	e Process:212)			
	Inbox History Help Requests	New - []] Suspend	DÞ 🔳 🖌 🚑 Assig	gn to Me 🤞 🥼 🗺 Ci	nange Due Date 🛛 🖓 🖀 🦷	📲 📲 Audit 🚵 Reque:	st Help 🛛 📸 Add to Calendar	Quick Search
	Alerts	Instance Details						
	My Projects	Process Definition: Fraud Response Process				Status:	Active	
	Sample Project	Instance Name: Fraud Response Process:212				Due Date:	04/28/08 9:19 AM	
		Instance ID: 2	212					
		Tasks						Open Tasks 💌
		Activity Name		Status	Participant	Priority 🔺	Due Date	Run
		Transaction Not Frau	6	Received	avCSR	Normal	04/16/08 12:00 PM	
		Collaboration	Microso	oft Internet Explorer				Add Comment
		Туре	2	Running the task will assign	n it to you. Are you sure?	То	Comment	
		Documents		ОКС	ancel			Add Document
		Hame	Revision			Last N	lodified By	
	http://135.8.139.233:8081/	portal/jsp/getProcessDetails.do?t	pdInstanceId=212#					🔮 Internet 🛛 🔅

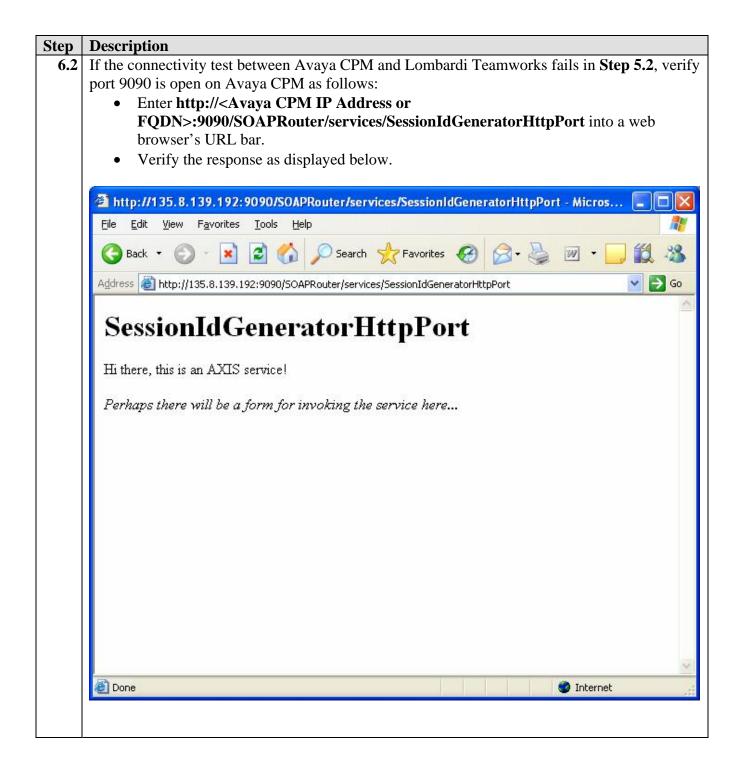
	icrosoft Internet Explorer
Customer Result	
The following transaction was identified as a val	lid transaction by the customer.
Transaction Record	
Vendor Address	Details
Dba Name: The Apple Store	Transaction I D: 3847759
Address1: 767 5th Avenue	Trans Amount: \$ 256.36
Address2:	Description: IPOD MP3 Player
City, State Zip: New York , NY 10153	
Contact Name: Steve Jobs	
Phone Number: (212) 336-4040	
Customer	
Name (First Middle Last): Joe Customer	
Account Number: 376687349823623	
Address1: 560 Peachtree Street	
Address2: Apt. 543	
City, State Zip: Atlanta , GA 30078	
Phone: (404) 555-1212	
Email: joe.customer@mindspring.com	

Step	Description							
5.16	Verify the S	tatus field is upda	ted to Compl	eted.				
		ortal - Microsoft Internet Explorer						
	Eile Edit View Favorites			1 444 00				1
		233:8081/portal/jsp/getSavedSearch.do?startsW						🛩 🔁 Go
	Teamworks	~	iui=uosearui=z		Welcome, twu	ser1 Help Preferenc		mbardi
	My Tasks	History						
	Inbox History	🗣 New 🕶 🛛 🕕 Suspend 🕬 🔳 🛛 😨	🖞 Change Due Date 🛛 📲 🛛 🛣 Re	quest Help				Quick Search
	Help Requests Alerts	Search				Organ	nize by Task Show	/ Search
	My Projects Sample Project	Instances						
	Sample Project	Instance Name Fraud Response Process:212	Process Definition Fraud Response Process	Instance Status Completed	Task Subject Task: Simulate Fraud system	Task Priority 🔺	Task Due Date 04/16/08 12:00 PM	Run
				1				
	8					D. D. D.		2
	é						🔮 Intern	u

6. Troubleshooting

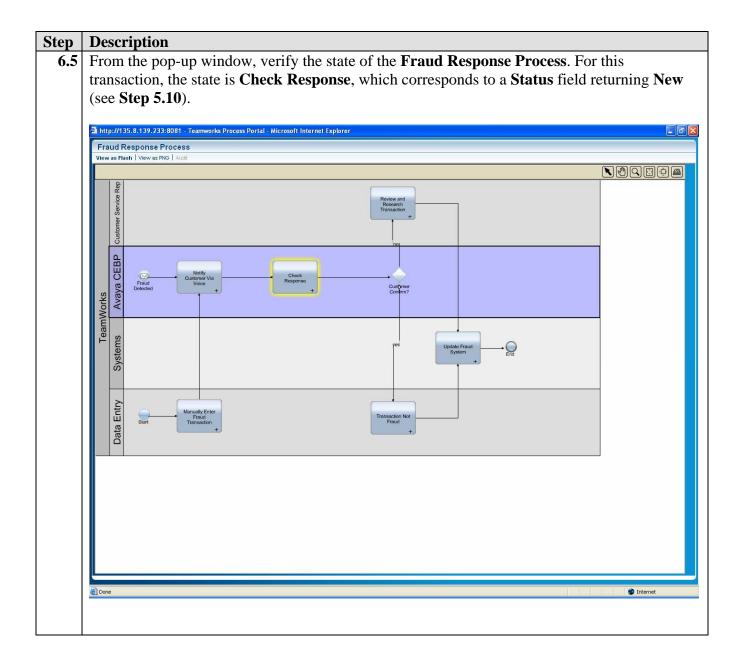
The following steps were used to troubleshoot the administrative steps presented in these Application Notes and are applicable for similar configurations in the field.

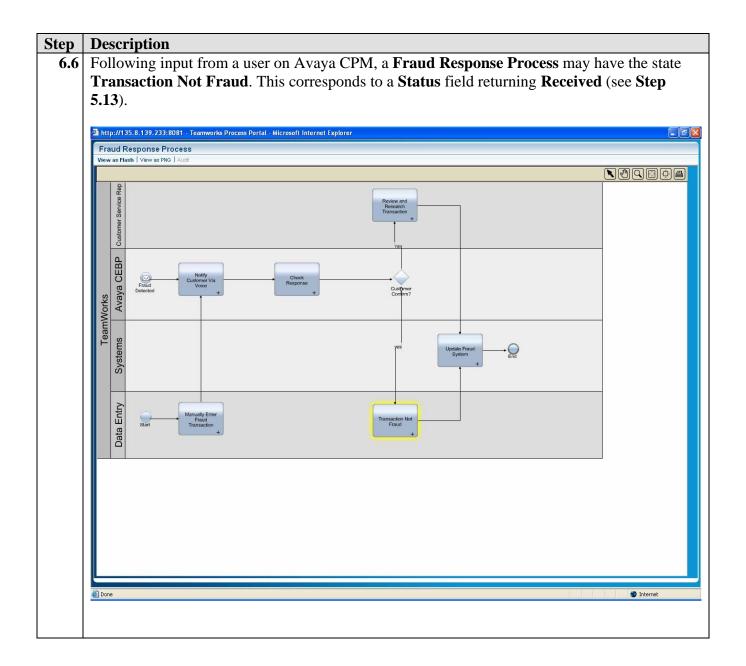
P	3.0.139.233.0001	- Exposed Process Value - Microsoft Internet Explore	
Exposed	d Process Value	•	
Variable nam	e:	avayaServer	
Reason:			~
Company of the			~
Value:		http://135.8.139.192:9090/SOAPRouter/services/NotifyAndResp	ondService
Schedule to i	nterval:	04/07/2008 🔠 14:38:32	
ОК	Cancel		
	and the second se	ariable with Effective Date in the past	



Step	Description
6.3	If the following error message is returned from the connectivity test between Avaya CPM and
	Lombardi Teamworks in Step 5.1, verify the Endpoint Address URL entry corresponds to the
	IP address or FQDN of Avaya CPM (see configuration in Step 4.3.5).
	Error
	java.net.ConnectException: Connection refused: connect
	OK

Step	Description				
6.4	Verify the Proc	ess Instance Diagran	n for the correspond	nding Fraud Respon	se Process as
	follows:				
	• Verify t	hat the process and per	rformance servers	are started (see Appe	endix C).
	• Open a	standard web browser	and enter http://<	<lombardi teamwo<="" th=""><th>rks IP Address or</th></lombardi>	rks IP Address or
	FQDN>	>:8081/portal into the	web browser's U	RL bar.	
	U	o the Process Server C		privileges, e.g., select	a user account
		in Steps 4.4.9 - 4.4.10			
		istory under My Task			
		n entry for a Fraud R	esponse Process	<number>.</number>	
	Click				
		rtal - Microsoft Internet Explorer			
	Eile Edit View Favorites	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		114 22	
	G Back • 🕥 • 💌	Search 👷 Favorites 📢		2.3	
	Address 🛃 http://135.8.139.2	233:8081/portal/jsp/getSavedSearch.do?startsWi	ith=0&search=2#	Velcome, twuser1 Help Preferences	✓ → Go Log Off ✓ ∧
	Teamworks	6 Portal			Lombardi
	My Tasks	History			
	Inbox History	📌 New 🕶 🛛 🕕 Suspend 🕪 🔳 🗍 🗺	🛾 Change Due Date 🛛 📲 🧟 Requ	iest Help	Quick Search
	Help Requests Alerts	Search	Show Process I	Instance Diagram Organize I	by Task Show Search
	My Projects	Instances			
	Sample Project				ity Task Due Date Run 04/16/08 12:00 PM
		Fraud Response Process:213 Fraud	a Response Process Active	Task: Simulate Fraud system Normal	04/16/06 12:00 PM
	javascript:window.open('view	vProcessInstanceDiagram.do?' + makeInstanceId	lString('bpdInstanceId') + '&isMultipleIn	istances=true','	Internet





Step	Description
6.7	View log files on Lombardi Teamworks:
	• Verify that the process and performance servers are started (see Appendix C).
	• Open a standard web browser and enter http:// <lombardi address="" ip="" or<="" teamworks="" th=""></lombardi>
	FQDN>:8081/teamworks into the web browser's URL bar.
	• Log in to the Process Server Console with administrative privileges.
	• From the Process Server Console, select TW Console → Teamworks Admin →
	Admin Tools → View TW Logs.
	• Select the appropriate log from the drop-down list for the Log Name field.
	• Select the appropriate number of lines to view from the drop-down list for the # of
	Lines field.
	• Click Refresh .
	I Tearmworks Console (tw_admin < tw_admin >) - Microsoft Internet Explorer Ele Edit Yew Favorites Tools Help
	🕝 Back 🔹 🕥 🖌 📓 🏠 🔎 Search 👷 Favorites 🧐 🔗 - 🌺 🕋 - 📴 🏭 🔏
	Address 🗃 http://135.8.139.233:8081/teamworks/cs_main.lsw
	Velcome, tw_admin Log Off
	Welcome
	-User Preferences -Change Password Log Ilame TW Error Log v # of Lines 100 v Ascending Filter Refresh
	TW Colore Cog TW Debug Log TW Debug Log
	Here TW EventManager Log View TW Logs TW Exp/hp Log
	Folder Item Security TW Limit TW Javascript -Manage Caches WS UCA Execution Log
	Cleanup Utility WS Inbound Log WS Inbound Log
	TW Web Services Manage EPVs
	-Instrumentation Monitor
	Exem Manager
	n Security
	Done 🔮 Internet

7. Conclusion

These Application Notes present a solution comprised of Lombardi Teamworks with Avaya Communications Process Manager (CPM) to provide a solution for Avaya Communications Enabled Business Processes (CEBP). For these Application Notes, a sample Avaya CEBP solution for processing fraudulent credit card transactions is presented.

8. Additional References

Avaya references are available at <u>http://support.avaya.com</u>.

- [1] Communications Process Manager Installation and Configuration Guide, Issue 3, Doc ID 04-601158, December 2007.
- [2] Communications Process Manager Administration and Maintenance Guide, Issue 5, Doc ID 04-601159, December 2007.

Lombardi Teamworks references are available at http://support.lombardi.com

- [3] Teamworks 6 Enterprise SP1 Express Installation and Configuration Guide, September 28, 2007.
- [4] Teamworks 6 Enterprise SP1 Installation and Configuration Guide for JBoss with Windows, September 28, 2007.
- [5] Teamworks 6 Enterprise SP1 Administration Guide, September 28, 2007.

9. Appendix

Appendix A - Oracle Enterprise Manager 10g Configuration

For this sample configuration, it is assumed that the Oracle Enterprise 10g Release has been installed and the Tablespaces for the Lombardi Teamworks Process and H servers have been defined.	
servers have been defined.	- D ×
servers have been defined.	
Oracle Enterprise Manager (SYS) - Tablespaces - Microsoft Internet Explorer Elle Edit View Favorites Tools Help O Back • O • Image: Pavorites Pavorites Pavorites Pavorites Pavorites Address Path: Pavorites Pavorites Pavorites Pavorites Pavorites Address Path: Pavorites Pavorites Pavorites Pavorites Pavorites	
Elle Edit View Favorites Loois Help Image: Second S	
③ Back ▼ ③ ▼ ▲ ② ▼ ▲ ② ✓ ▲ ② ✓ ▲ ○ Favorites ④ ○ ▼ ◇ □ ○ ▼ ◇ □ ○ ▼ ◇ □ □ Address ④ http://lombardi:1158/em/console/database/databaseObjectsSearch?event=search&otype=TABLESPACE⌖=ord&type=oracle_databa	
Address 🕘 http://lombardi:1158/em/console/database/databaseObjectsSearch?event=search&otype=TABLESPACE⌖=orcl&type=oracle_databa	
	🛃 Go 🛛 Links 🂙
ORACLE Enterprise Manager 10g	
Database Control	Database
	ged in As SYS
Tablespaces	
Object Type Tablespace	
Search	
Select an object type and optionally enter an object name to filter the data that is displayed in your results set.	
Object Name	
Go By default, the search returns all uppercase matches beginning with the string you entered. To run an exact or case-sensitive match, double quote the s	and the station
You can use the wildcard symbol (%) in a double quoted string.	search string.
Selection Mode Single 💌	Create
Edit View Delete Actions Add Datafile	GO
	egment anagement
© EXAMPLE 128.8 77.4 60.1 51.4 ✓ 1 PERMANENT LOCAL AU	UTO
O <u>SYSAUX</u> 370.0 341.5 92.3 28.5 ✓ 1 PERMANENT LOCAL AU	UTO
C SYSTEM 490.0 489.1 99.8 0.9 - 1 PERMANENT LOCAL MA	ANUAL
	ANUAL
O TEMP 20.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	
C TEMP 20.0 0.0 0.0 0.0 20.0 ✓ 1 TEMPORARY LOCAL M/ C TWPERFDB 250.0 26.8 10.7 223.2 ✓ 1 PERMANENT LOCAL AU	ANUAL
C TEMP 20.0 0.0 Q.0 Q.0 Q.0 1 TEMPORARY LOCAL M/ C TWPERFDB 250.0 26.8 10.7 223.2 V 1 PERMANENT LOCAL AU C TWPROCDB 500.0 44.6 Q.0 25.4 V 1 PERMANENT LOCAL AU	ANUAL

Appendix B - Lombardi Teamworks Installation

This section describes the steps for installing Lombardi Teamworks on a Windows based PC. The configuration described in this section assumes the software requirements to support Lombardi Teamworks are satisfied. Refer to [3] and [4] for additional information regarding installation requirements for Lombardi Teamworks.

B1 - Lombardi Teamworks Enterprise Express Installer

The Lombardi Teamworks Enterprise Express Installer enables the Lombardi Teamworks Process Server, Performance Server, and Authoring Environment to install on a single machine (Host or Local PC). Optionally, the Authoring Environment and Lombardi Teamworks servers (Process and Performance) can be installed on separate machines. Lombardi Software does not support running Lombardi Teamworks in a production environment that was installed with Lombardi Teamworks Enterprise Express Installer. Lombardi Teamworks Enterprise Installer must be used to set up Lombardi Teamworks in a production environment.

Step	Description
B1.1	Start the Lombardi Teamworks Enterprise Express Installer as follows:
	• [Not Shown] Double click on the Teamworks-6-Enterprise-SP1-Express-Installer.exe
	file.
	• Click Next .
	Teamworks
	Introduction
	Introduction Choose Product Client Connection Options Environment Choose Folders Pre-Installation Summary Installing Install Complete InstallAnywhere by Macrovision InstallAnywhere by Macrovision

Step	Description
B1.2	From the Choose Product screen, select Client/Server and click Next .
1	<i>Note</i> : For this sample configuration, the client and server applications were installed on the
	Local PC hosting Lombardi Teamworks. It is also acceptable to install the client application
	on a PC other than the one hosting Lombardi Teamworks.
	Var Teamworks
	Choose Product
	Introduction Client
	Choose Product Installs Teamworks Client (Authoring Environment) on the local machine
	Environment
	Choose Folders
	Pre-Installation Summary Server Installs Teamworks Server on the local machine
	Installing
	Client/Server
1	Installs a Client and a Server on the local machine
	InstallAnywhere by Macrovision
	<u>Cancel</u>

Step	Description
B1.3	From the Organization Management Product Key screen, enter the Product Key and click
	Next.
	₩ Teamworks
	Organization Management Product Key
	Introduction Install Teamworks 6 for Organization Management Choose Product
	Client Connection Options Environment Choose Folders
	Pre-Installation Summary Product Key:
	InstallAnywhere by Macrovision
	<u>Cancel</u>

Step	Description
B1.4	From the Process Server Database Parameters screen, configure as follows:
	• Select the appropriate setting from the drop-down list for the Database field.
	• Enter the name of the Host PC in the Database Host field.
	• Enter the port that the database listens on in the Database Port field. For Oracle, the
	database default listener port is 1521.
	• Enter the name of the database that Lombardi Teamworks uses for its Process Server
	repository in the Database Name field (see Database Instance in Step A1).
	• Enter the username and password for the Tablespace created for the Process Server in
	the Database User and Database Password fields respectively (see Step A1).
	• To verify the provisioning in this step, click Test Connection . If the connection to the
	database is successful, a pop-up window will provide confirmation. Click OK.
	Connection Successful Connection to database successful
	• Click Next .
	1
	Var Teamworks _□ ×
	Process Server Database Parameters
	Choose Product
	Client Connection Options Database Host Iombardi
	Environment Database Port 1521
	Choose Folders Database Name ord
	Pre-Installation Summary Database User TWPROCDB
	Database Password tworocdb
	Install Complete
	Test Connection
	InstallAnywhere by Macrovision
	<u>Cancel</u> <u>Previous</u> <u>Next</u>

Step	Description
B1.5	From the Performance Server Database Parameters screen, configure as follows:
	• Select the appropriate setting from the drop-down list for the Database field.
	• Enter the name of the Host PC in the Database Host field.
	• Enter the port that the database listens on in the Database Port field. For Oracle, the
	database default listener port is 1521 .
	• Enter the name of the database that Lombardi Teamworks uses for its Performance
	Server repository in the Database Name field (see Database Instance in Step A1).
	• Enter the username and password for the Tablespace created for the Performance
	Server in the Database Name and Database Password fields respectively (see Step
	A1).
	• To verify the provisioning in this step, click Test Connection . If the connection to the
	database is successful, a pop-up window will provide confirmation. Click OK .
	Connection Successful
	Connection Successful X
	Connection to database successful
	• Click Next .
	Teamworks
	Performance Server Database Parameters
	Choose Product Database Oracle 10g
	Client Connection Options Database Host Iombardi
	Environment Database Port 1521
	Choose Folders Database Name orcl
	Pre-Installation Summary Database User TWPERFDB
	Database Password twperfdb
	Install Complete
	URL jdbc:oracle:thin:@lombardi:1521:orcl
	Test Connection
	InstallAnywhere by Macrovision
	Cancel Previous Next

Step	Description
B1.6	From the Choose Install Folder screen, accept default settings and click Next .
	Var Teamworks
	Choose Install Folder
	Introduction Where Would You Like to Install?
	Choose Product C:\Teamworks
	Client Connection Options
	Environment
	Choose Folders
	Installing
	Install Complete
	InstallAnywhere by Macrovision
	<u>Cancel</u>
B1.7	From the Choose Shortcut Folder screen, accept default settings and click Next.
	😨 Teamworks
	Choose Shortcut Folder
	✓ Introduction Where would you like to create product icons?
	C In a new Program Group: Teamworks
	C lient Connection Options
	Pre-Installation Summary
	Installing
	Install Complete C In the Quick Launch Bar
	Choose
	C Don' <u>t</u> create icons
	Cre <u>a</u> te Icons for All Users
	InstallAnywhere by Macrovision
	Cancel Previous Next

Step	Description
B1.8	From the Pre-Installation Summary screen, accept default settings and click Install .
	Va Teamworks
	Pre-Installation Summary
	✓ Introduction Please Review the Following Before Continuing:
	Choose Product Product Name:
	Client Connection Options Teamworks
	Choose Folders
	C:\Teamworks
	Installing Shortcut Folder:
	Install Complete C:\Documents and Settings\All UsersDecident Terrementer
	Users\Desktop\Teamworks
	InstallAnywhere by Macrovision
	<u>Cancel</u> Install
B1.9	From the Install Complete screen, click Done.
	Teamworks
	Install Complete
	Introduction Congratulations! Teamworks has been successfully installed to:
	Choose Product
	Choose Folders
	Pre-Installation Summary
	Installing
	Install Complete
	InstallAnywhere by Macrovision
	<u>Cancel</u> <u>Previous</u> <u>Done</u>

B2 - Configure Databases

The Lombardi Teamworks Enterprise Express Installer installs scripts that are used to set up the structure, initial data, stored procedures, and indexes for Lombardi Teamworks databases. Databases for the Process Server and Performance Server should already be configured (see **Appendix A**).

Step	Description
B2.1	Configure the database for the Process Server as follows:
	• From the command line (DOS console), navigate to the <lombardi b="" teamworks<=""></lombardi>
	Install-Dir>\process-server\db directory.
	• Enter DBSLoad.bat oracle10g and verify the script was successful by noting the
	following line in the DOS console:
	DBStructureLoad completed successfully
	C:\Teamworks\process-server\db>DBSLoad.bat oracle10g
	DBStructureLoad starting DBStructureLoad dbdriver : oracle.jdbc.driver.OracleDriver
	DBStructureLoad dburl : jdbc:oracle:thin:@lombardi:1521:orcl
	DBStructureLoad dbuser : TWPROCDB DBStructureLoad completed successfully.
	Distructurenoad compreted successfully.
B2.2	From the <lombardi install-dir="" teamworks="">\process-server\db</lombardi> directory, enter
	DBSpLoad.bat oracle10g and verify the script was successful by noting the following line in
	the DOS console:
	DBStructureLoad completed successfully
	C:\Teamworks\process-server\db>DBSpLoad.bat oracle10g
	DBStructureLoad starting DBStructureLoad dbdriver : oracle.jdbc.driver.OracleDriver
	DBStructureLoad dburl : jdbc:oracle:thin:@lombardi:1521:orcl
	DBStructureLoad dbuser : TWPROCDB
	DBStructureLoad completed successfully.
B2.3	From the <lombardi install-dir="" teamworks="">\process-server\db</lombardi> directory, enter
	DBLoad.bat oracle10g and verify the script was successful by noting the following line in the
	DOS console:
	DBLoad completed successfully
	C:\Teamworks\process-server\db>DBLoad.bat oracle10g
	DBLoad starting DBLoad dbdriver : oracle.jdbc.driver.OracleDriver
	DBLoad dburl : jdbc:oracle:thin:@lombardi:1521:orcl
	DBLoad dbuser : TWPROCDB
	DBLoad completed successfully.

Step	Description
B2.4	Configure the database for the Performance Server as follows:
	• From the command line (DOS console), navigate to the <lombardi b="" teamworks<=""></lombardi>
	Install-Dir>\performance-server\db directory.
	• Enter DBSLoad.bat oracle10g and verify the script was successful by noting the
	following line in the DOS console:
	DBStructureLoad completed successfully
	DDStructureLoad completed successiony
	C:\Teamworks\performance-server\db>DBSLoad.bat oracle10g
	DBStructureLoad starting
	DBStructureLoad dbdriver : oracle.jdbc.driver.OracleDriver
	DBStructureLoad dburl : jdbc:oracle:thin:@lombardi:1521:orcl
	DBStructureLoad dbuser : TWPERFDB
	DBStructureLoad completed successfully.
B2.5	From the <lombardi install-dir="" teamworks="">\performance-server\db directory, enter</lombardi>
	DBLoad.bat oracle10g and verify the script was successful by noting the following line in the
	DOS console:
	DBLoad completed successfully
	DDLoud completed successfully
	C:\Teamworks\performance-server\db>DBLoad.bat oracle10g
	DBLoad starting
	DBLoad dbdriver : oracle.jdbc.driver.OracleDriver
	DBLoad dburl : jdbc:oracle:thin:@lombardi:1521:orcl
	DBLoad dbuser : TWPERFDB
	DBLoad completed successfully.

B3 - Install System Components

There are system components that Lombardi Teamworks needs to run properly. These are default layouts, variable types, and other assets that are required to author a process successfully. This section describes the steps to import and install system components using the graphical user interface provided in the Authoring Environment.

Step	Description
B3.1	Install system components as follows:
	• Start the Process Server (see Appendix C).
	• Start the Authoring Environment and then log on to Lombardi Teamworks as an administrative user [1].
	• [<i>Not Shown</i>] From the Authoring Environment main menu, select File → Import .

B3.3 From the Import dialog box, click Browse and navigate to the TWSystemData.zip fil in the <lombardi install-dir="" teamworks="">\imports directory and then click Next.</lombardi>	le located
Import Teamworks Library	
Import	
Import	
Select the file you want to import.	
C:\Teamworks\imports\TWSystemData.zip Browse	
(?) < Back Next > Einish Cancel	

B3.4 From the Import dialog box, ensure that the Replace Existing Version option is selected for all folders. The Import facility will then overwrite all existing items with new versions, and inserts all new items. Click Finish. Import Teamworks Library Import Describe how each object should be imported. Import Item Action Prefix/Suffix Import: C:\Teamworks\imports\T System Replace Existing Version Import: C:\Teamworks\imports\T Action Prefix/Suffix Import: C:\Teamworks\imports\T Action Prefix/Suffix Import: C:\Teamworks\imports\T Action Prefix/Suffix Import: C:\Teamworks\imports\T Action Prefix/Suffix Import: C:\Teamworks\imports\T New Version New Version Alert Severities Replace Existing Version New Version New Version (Rename) New Version (Prefix) New Version (Suffix) New Version (Suffix) New Version (Suffix) Version	
all folders. The Import facility will then overwrite all existing items with new versions, and inserts all new items. Click Finish .	
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Appendix C - Starting Lombardi Teamworks Servers

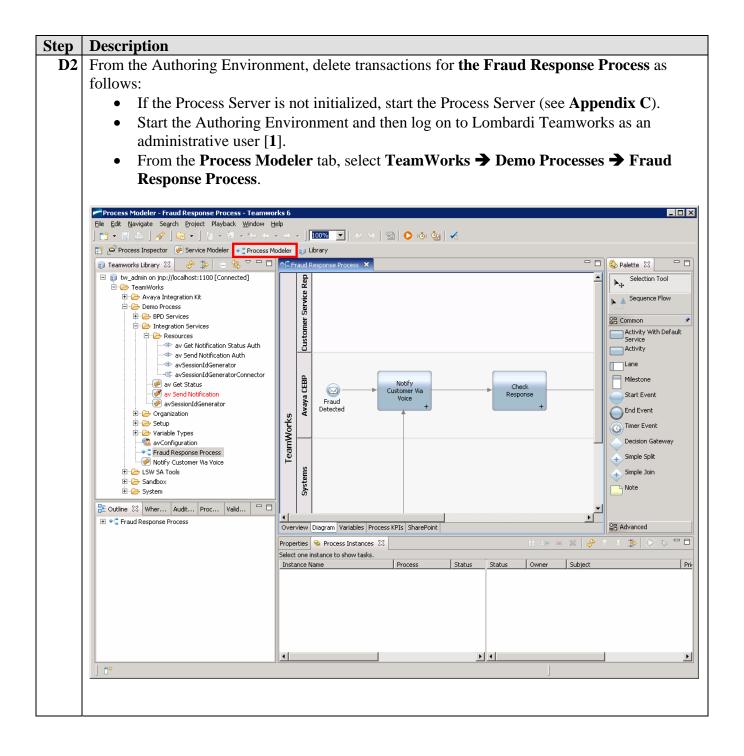
This section describes the steps to start the Lombardi Teamworks Process and Performance Servers.

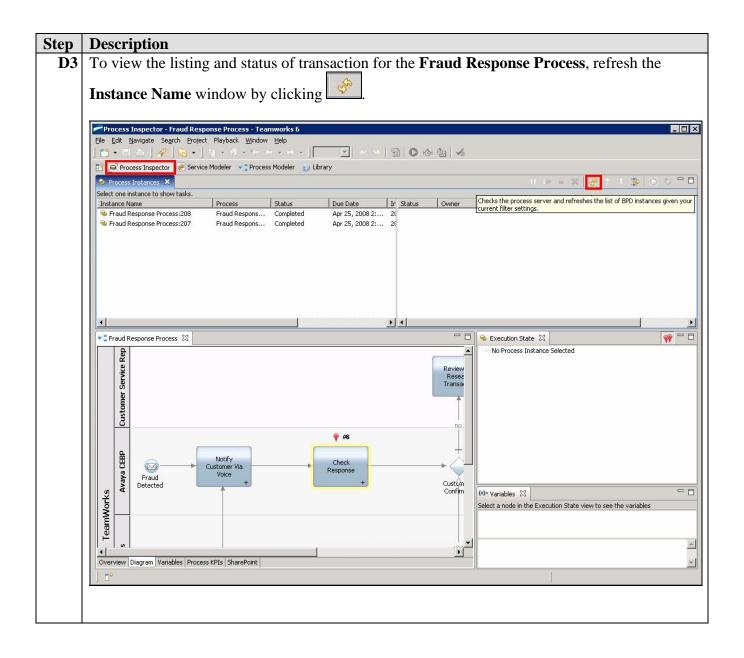
Step	Description
C1	
	 From the command line (DOS console), navigate to the <lombardi teamworks<br="">Install-Dir>\process-server directory.</lombardi>
	 Enter startProcessServer.cmd and verify the Process Server is running by noting the following lines in the DOS console: INFO [ChannelSocket] JK: ajp13 listening on /0.0.0.0:8009 INFO [JkMain] Jk running ID=0 time=0/79 config=null
	<i>Note:</i> Do not close the DOS console where the Process Server was started, as this may stop the Process Server. To stop the Process Server, enter the <i>Ctrl+C</i> command in the DOS console where the Process Server was started.
	C:\Teamworks\process-server>startProcessServer.cmd > Wrapper Started as Console Launching a JVM Wrapper (Version 3.0.5)
	10:36:29,468 INFO [ChannelSocket] JK: ajpl3 listening on /0.0.0.0:8009 10:36:29,500 INFO [JkMain] Jk running ID=0 time=0/79 config=null
C2	 Start the Performance Server as follows: From the command line (DOS console), navigate to the <lombardi install-dir="" teamworks="">\performance-server directory.</lombardi> Enter startPerformanceServer.cmd and verify the Performance Server is running by noting the following lines in the DOS console: INFO [ChannelSocket] JK: ajp13 listening on /0.0.0.9009 INFO [JkMain] Jk running ID=0 time=0/156 config=null
	<i>Note</i> : Do not close the DOS console where the Performance Server was started, as this may stop the Performance Server. To stop the Performance Server, enter the Ctrl+C command in the DOS console where the Performance Server was started.
	C:\Teamworks\performance-server>startPerformanceServer.cmd > Wrapper Started as Console Launching a JVM Wrapper (Version 3.0.5)
	10:38:27,359 INFO [ChannelSocket] JK: ajp13 listening on /0.0.0.0:9009 10:38:27,421 INFO [JkMain] Jk running ID=0 time=0/156 config=null

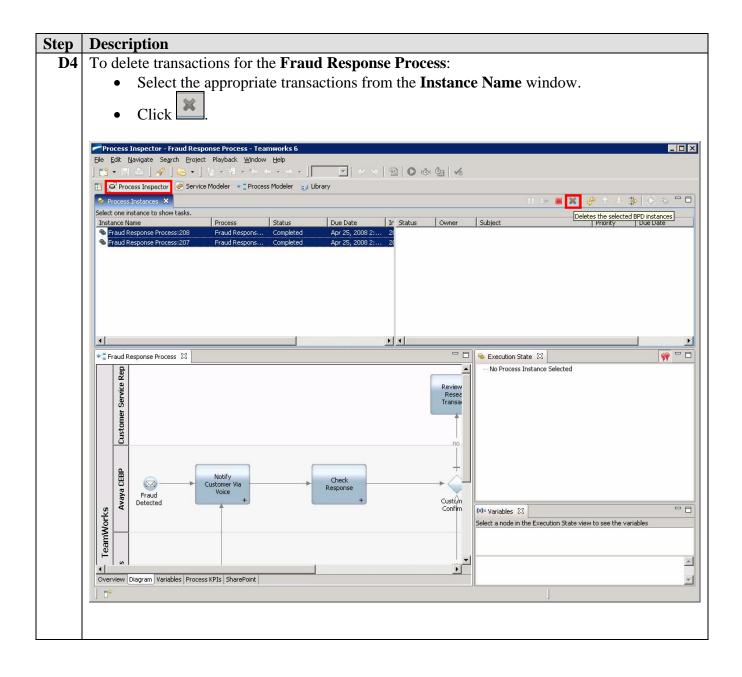
Appendix D - Lombardi Teamworks Maintenance

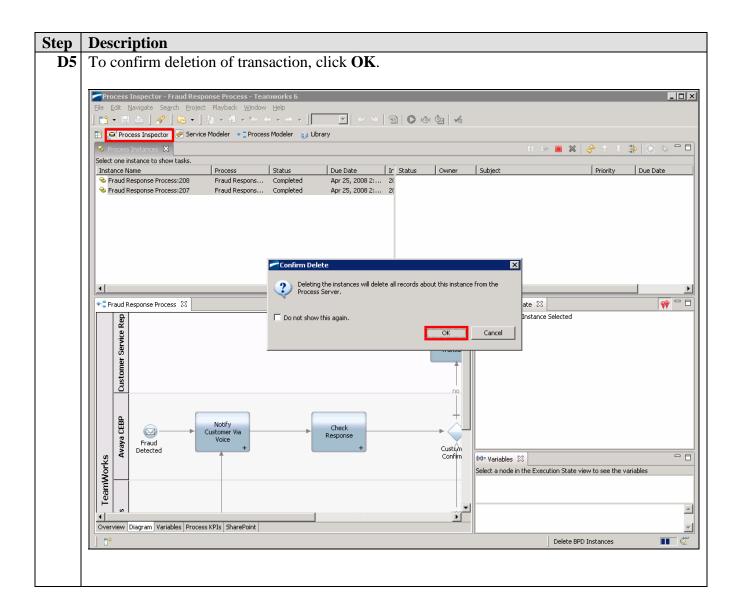
This section describes the steps to delete transactions for the **Fraud Response Process** on Lombardi Teamworks.

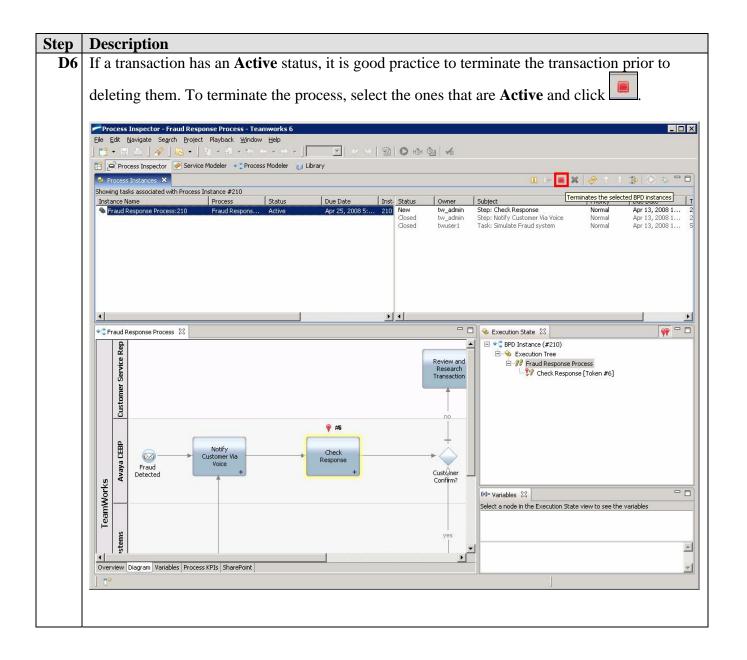
 Verify that the process and performance servers are started (see Appendix C). Open a standard web browser and enter http://<lombardi address="" fqdn="" ip="" teamworks="">:8081/portal into the web browser's URL bar.</lombardi> Log in to the Process Server Console with user privileges, e.g., select a user account created in Steps 4.4.9 - 4.4.10. Click History under My Tasks. 							
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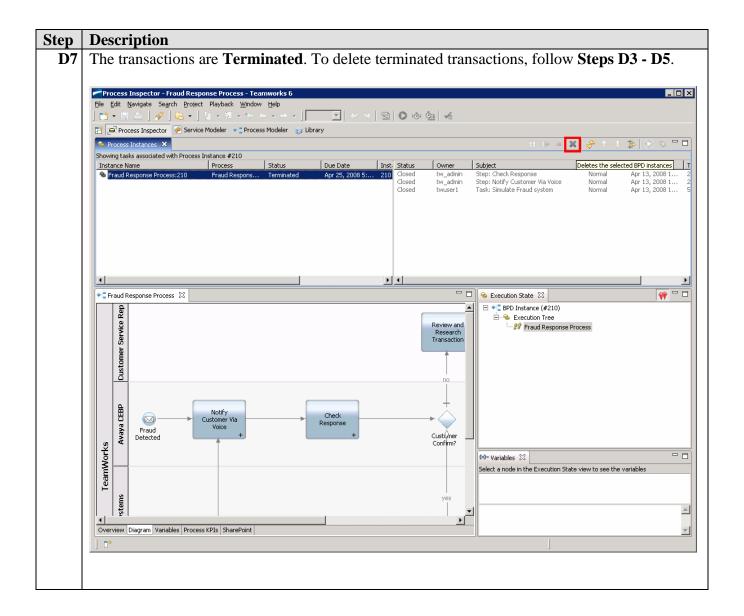












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