

This presentation describes support for cross-component trace (XCT) included in IBM WebSphere® Application Server V8.5

Section		IBM
	Overview	

This section is an overview of cross component trace.



Cross component trace is a correlation technology that helps administrators see the flow of requests that span multiple threads or processes. XCT simplifies the task of determining which log or trace entries, in each application server log file, are part of each request. When enabled, XCT can be used in any of three different modes. In the first mode, XCT request IDs are added to existing log and trace records. In the second mode, XCT request IDs are added to existing log and trace records and XCT log records are added to log files. In the third mode, XCT request IDs are added to log files, and data snapshots are captured. XCT works best with the application server's High Performance Extensible Logging (HPEL) log and trace records – they cannot be stored in SystemOut.log. HPEL also provides the ability to filter log and trace files by request ID and helps minimize the performance impact of enabling XCT log records.



For a demonstration of how to enable high performance extensible logging, pause this presentation and click the demonstration icon.

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What is	s cross component trace?	
 IBM We with corrul – Avai – Can – Can 	ebSphere Cross Component Trace Logviewer can be used to relation log records. ilable for the IBM Support Assistant load multiple files simultaneously show flat or hierarchical views	view files augmented
5	Cross-component trace	© 2012 IBM Corporation

A tool called IBM WebSphere cross component trace log viewer can be used to view log or trace files augmented with correlation log records. The tool is available as a tool add-on for the IBM Support Assistant. It is able to load multiple log files at the same time, and can display log content in either a flat chronologically-ordered view, or a hierarchical request-ordered view.

		TBM
What is c	cross component trace?	
 XCT comp – XCT is – PMI Re 	arison with PMI Request Metrics for log and trace correlation equest Metrics is for performance tracking	
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XCT and PMI Request Metrics have some overlap. Both technologies provide transaction tracking.

XCT is used for log and trace correlation, making it easy to see which log and trace entries are part of the same requests. XCT can also be used to capture request and response payload data. XCT instrumentation is sparse as it aims mostly to track where requests change threads or processes.

PMI Request Metrics is used for performance tracking. PMI Request Metrics can expose its data to Application Response Measurement (ARM) agents. PMI Request Metrics instrumentation can be verbose as it tracks the performance of individual components.



Each XCT record contains a date, thread ID, XCT logger name, message type, XCT state, XCT ID, XCT Parent ID, and message.

The date is the date and time when the message was generated.

The thread ID is the thread which generated the message.

The XCT logger name is the logger name in XCT, the logger is used to identify the XCT records in the log file.

The message type is the type of the log message.

The XCT state identifies whether an XCT context is beginning or ending. Think of an XCT context as a request running on a particular thread.

The XCT ID is the unique ID generated to correlate the XCT records.

The XCT parent ID is the XCT ID of the parent request.

The message contains the information about the XCT record; this can contain Associations and Annotations.



Cross Component Trace (XCT) can be enabled using the administrative console or WSADMIN scripts. In this illustration XCT is enabled using administrative console.

To enable XCT for the server , server1, navigate as follows: Servers > Server Types > WebSphere Application Servers > server1 > Change log detail levels > Runtime Tab

Select the check box that says Enable log and trace correlation and select the radio button labeled Include request IDs in log and trace records and create correlation log records



Cross component trace is used in these scenarios.

the HTTP sc	enarios these traces were enabled	
The panel be SERVER NA	low can be found on this page: WebSphere Application Servers > ME > Change log detail levels	
Fourstion Dustin		
General Properties	i	
Change log deta	il levels	_
Disable loggin be modified when	ng and tracing of potentially sensitive data (WARNING: This might cause the log detail level setting to it is applied on the server.)	
Select component Components and to specify a log de detail level. Log de	s and specify a log detail level. Log detail levels specified here will apply to the entire server. Expand Groups and click Components to specify a log detail level for individual components, or click Groups tail level for a predefined group of components. Click a component or group name to select a log etail levels are cumulative.	
=info: HTTPC	annel=all: GenericBNF=all	

For the HTTP scenarios to follow this trace was enabled: *=info:HTTPChannel=all:GenericBNF=all



An administrator might want to use XCT to identify what trace entries are part of an HTTP request. To accomplish this the HPEL logViewer command-line tool can be used. This tool is found within the bin directory of the server. When the "logviewer" is run with the advanced format option, the requestID can be seen on each trace entry. In order to have the requestID present XCT must be enabled.

To search for log and trace records that match a particular requestID, use the command logViewer -includeExtensions requestID=<some Id>.

For example:

logViewer -includeExtensions requestID=AABZvPwW/cp-AAAAAAAAAAA



For a demonstration of how to Use request IDs to see log and trace entries related to a particular request, pause this presentation and click the demonstration icon.

	IBM
dentifying HTTP requests the serve	er is executing
When an HTTP request arrives, the server exe	cutes an XCT BEGIN
- The entry in the logs show this information:	
Parent XCT ID Current XCT ID	
 Type of request(InboundRequest or Out) URL of request 	itboundRequest)
RequestContext object ID from HTTPC	hannel
 RemoteAddress from the connection th – Will only display if XCT correlation log reco 	e request originated from rds are enabled
[5/29/12 7:15:29:787 EDT] 000000be XCT	I BEGIN AABPtopIWgZ-AAAAAAA7oMO
AABPtopIWgZ-AAAAAAA7oK8 HTTPCF(InboundReque	st /favicon.ico RemoteAddress(9.42.75.112)
RequestContext (-1245247681))	
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An administrator can see what HTTP requests the server is running. When the request arrives, the server does an XCT BEGIN. This marks the request as having started processing. In the logs an XCT BEGIN for an HTTP request can commonly be seen with attributes showing the XCT Parent ID, XCT Current ID, the type of request, which includes InboundRequest and OutboundRequest, the URI of the request, the HTTP Channel RequestContext object ID, and the Remote IP Address from the connection the request originated from.



When the request completes processing the server does an XCT END, this marks the request as finished. In the logs an XCT END for a HTTP request can commonly be seen with attributes showing the XCT Parent ID, XCT Current ID, the type of request, which includes InboundRequest and OutboundRequest, the return code of the response, and the HTTP Channel RequestContext object ID.

	IBA
M WebSpher	e cross component trace log viewer
ſhe scenarios follo ₋ogviewer – availa	wing this slide use the IBM WebSphere Cross Component Trace ble as a tool add-on for the IBM Support Assistant
fool used to exami	ne XCT entries in a log
ana ana ka laada.	
ogs can be loaded	from multiple servers and they are stitched together
IBM WebSphere Cross Com	oonent Trace Logviewer
File	
(Server Logs	
	Load From File
	Load From File Load server log files from the file system Select one or more server log files. Click OK to load them into the Select one or wide.
	Load From File Load server log files from the file system Server Logs view. Server Logs view. Server Logs view. Server Logs view.
	Load From File Load server log files from the file system Select the or more server log files. Click OK to load them into the Server Logs view. Select files server1.pid server1.pid SystemOut.log SystemOut.
	Load From File Load server log files from the file system Select files:
	Load from File Lad server log files from the file system Select files
	Load from File Load server log files from the file system Select files:
	Locale: English (United States) Filter: Filter: Cocale: Copyram Files (d6)\JBM\WebSphere\AppServet\profiles\AppS Total File size: 4 KB OK Cancel

The scenario that follows uses the IBM WebSphere cross component trace log viewer. The tool is used to examine XCT entries from a server log. Log files from multiple servers can be loaded and they are stitched together for a combined view.



For demonstrations on how to get the cross-component trace log viewer and on how to see request hierarchy in the log view, pause this presentation and click each demonstration icon.



In this scenario, the JMS application and messaging engine are running in the same server process.

The JMS message is sent to a local queue destination and the message is received from the local queue destination synchronously.

					IBM
Sending and re	ceiving a	JMS n	nessage	from a local server	
 JMS Applications and 	nd the Messag	ging Eng	ine are runn	ing in the same process	
 Message is receive 	d synchronous	slv			
incoodyo io rocorro	a oʻjnoni onoda	.,,			
🔲 🌖 Start HTTPCF (InboundRequest /JMSApp/	Apr 23, 2012 13:54:44.509 IST	Http to JMS	0000008e	Start of processing for HTTPCF (InboundRequest /IN	ISApp/LocalMessageSend).
📄 🗐 Start JMS (SendMessage)	Apr 23, 2012 13:54:45.685 IST	Correlation	JMS to SIBus	Start of processing for JMS (SendMessage).	
🔲 问 Start SIBus (Send)	Apr 23, 2012 13:54:45.686 IST		Correlation	Start of processing for SIBus (Send).	
🗐 🌔 End SIBus (Send)	Apr 23, 2012 13:54:45.698 IST		0000008e	End of processing for SIBus (Send).	Message Send
🗐 End JMS (SendMessage)	Apr 23, 2012 13:54:45.698 IST		0000008e	End of processing for JMS (SendMessage).	incompetenti
🗐 📴 Log message	Apr 23, 2012 13:54:45.700 IST		0000008e	Message sent successfully: Message	
C=200)	Anr 23 2012 13:54:45:713 IST		0000008e	End of processing for HTTPCE (InhoundRequest RC:	2001.
🗌 🕘 Start HTTPCF (InboundRequest /JMSApp/	Apr 23, 2012 13:55:50.023 IST	Http to JMS	0000008e	Start of processing for HTTPCF (InboundRequest /IN	ISApp/LocalMessageReceive).
🗐 🕘 Start JMS (ReceiveInBound)	Apr 23, 2012 13:55:50.065 IST	Correlation	JMS to SIBus	Start of processing for JMS (ReceiveInBound).	
🔲 🥚 Start SIBus (ReceiveNoWait)	Apr 23, 2012 13:55:50.065 IST		Correlation	Start of processing for SIBus (ReceiveNoWait).	
🗐 End SIBus (ReceiveNoWait)	Apr 23, 2012 13:55:50.068 IST		0000008e	End of processing for SIBus (ReceiveNoWait).	Message Receive
🔲 😡 End JMS (ReceiveInBound)	Apr 23, 2012 13:55:50.068 IST		0000008e	End of processing for JMS (ReceivelnBound).	
🗐 📑 Log message	Apr 23, 2012 13:55:50.069 IST		0000008e	Successfully received message from the Queue: Mes	iage
End HTTPCF (InboundRequest RC=200)	Apr 23, 2012 13:55:50.070 IST		0000008e	End of processing for HTTPCF (InboundRequest RC=	200).
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Since the JMS application and messaging engine are running in the same server process, the SystemOut.log from that server is loaded

HTTP to JMS Correlation and JMS to systems integration bus correlation can be clearly seen in the IBM WebSphere Cross Component Trace Logviewer

		IBA
JMS XCT records		
Properties		Properties
😔 Start JMS (SendMessage)	Q	Start SIBus (ReceiveNoWait)
Time: Apr 23, 2012 13:54:45.685 IST		Time: Apr 23, 2012 13:55:50.065 IST
Thread ID: 0000008e		Thread ID: 0000008e
Contents: Translated Raw		Contents: O Translated () Raw
AAAAAAAAAAAA Messagetti 1012 aaloo 14 saacki sa too aaloo	de(AUTO_ACKNOWLEDGE)	Silbut(ReceiveNoWait Assoc(MessagingEngineUuid 4E958E3550950051) Assoc (DestinationName XCTQ1))
Properties		Properties
ightart SIBus (Send)	v 🕹	🕒 End JMS (ReceivelnBound)
Time: Apr 23, 2012 13:54:45.686 IST		Time: Apr 23, 2012 13:55:50.068 IST
Thread ID: 0000008e Contents: Translated Raw		Thread ID: 0000008e
XCT <u>I BEGIN AAADv/rthDz-AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA</u>	Dx/itMDz-AAAAAAAAAAA 051) Assoc(DestinationName bility(ReliablePersistent))	Contents: Transited ® Raw XCT I END AAADx/aMDz-AAAAAAAAAA AAAA AAAAAAAAAAA BIMS (ReceivelnBound MassagabilD/BBBbc)/658855818696665103/BBM000000000001
	ОК	ок
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By double clicking the entry in the record list in the IBM WebSphere Cross Component Trace Logviewer the XCT records with annotations can be seen. In the JMS layer, the JMS Message ID is captured, which helps in correlating the message sent with the message received. In the systems integration bus layer, information related to the destination where the message is sent and from where the message is received is captured, such as messaging engine UUID, destination name etc.



In this scenario, two servers are involved. Two MDB applications are deployed -- one in server1 and another in server2.

The JMS application running in server1 publishes a message to a topic that is subscribed to by the MDB applications running in server1 and server2

The message is asynchronously consumed by the MDB application.

Receiving mess	age async	hronously	(Pub	Sub -	Topicspace)
to contraining interest	age ac)e		(e cho	(op:op/acc)
One MDB Applicatio	n and the Mes	saging Engir	ne are ru	nning i	n the same server process
One MDB Applicatio	n is runnina in	a different s	erver pro	cess	
Maaaaa in aa aa iyoo		-h.			
Message is received	asynchronous	siy			
Start HTTPCF (InboundRequest / JMSApp/Messa	gePubl Apr 25, 2012 14:36:15:856 IST		00000095	Start	of processing for HTTPCF (InboundRequest /JMSApp/MessagePublish).
Start JMS (SendMessage)	Apr 25, 2012 14:36:16:589 IST		00000095	Start	of processing for JMS (SendMessage).
Start SIBus (Send)	Apr 25, 2012 14:36:16.590 IST	Asynchronous Receive,	0000095 Inter	Thread Start of	of processing for SIBus (Send).
Start SIBus (ConsumeMessage)	Apr 25, 2012 14:36:16.672 IST	hence it comes under	0000097 Comn	nunication Start o	of processing for SIBus (ConsumeMessage).
End SIBus (ConsumeMessage)	Apr 25, 2012 14:36:16.685 IST	message send hierarchy	00000097	End o	f processing for SIBus (ConsumeMessage).
End SIBus (Send)	Apr 25, 2012 14:36:16:657 IST		00000095	End o	f processing for SIBus (Send).
End JMS (SendMessage)	Apr 25, 2012 14:36:16:657 IST		00000095	End o	f processing for JMS (SendMessage).
🛛 🖪 Log message	Apr 25, 2012 14:36:16:659 IST		00000095	Messa	ege published successfully: Message
End HTTPCF (InboundRequest RC=200)	Apr 25, 2012 14:36:16.688 IST		00000095	End o	f processing for HTTPCF (InboundRequest RC=200).
Start HTTPCF (InboundRequest /JMSApp/Mess	agePubl Apr 25, 2012 14:36:15.856 IS		00000095		Start of processing for HTTPCF (InboundRequest /JMSApp/MessagePubli
Start JMS (SendMessage)	Apr 25, 2012 14:36:16:589 IS		00000095		Start of processing for JMS (SendMessage).
Start SIBus (Send)	Apr 25, 2012 14:36:16:590 IS		0000095		Start of processing for SIBus (Send).
Start SIBus (ConsumeMessage)	Apr 25, 2012 14:36:16.672 IS	Message Subscription	0000097	Inter Server	Start of processing for SIBus (ConsumeMessage).
End SiBus (ConsumeMessage)	Apr 25, 2012 14:36:16:685 IS	from Server1	000009/	Communicat	End of processing for SiBus (ConsumeMessage).
Start SiBus (ProcessMessage)	Apr 25, 2012 14:30:16.707 IS		UUUUUSe		Start of processing for SiBus (ProcessMessage).
End SiBus (ProcessMessage)	Apr 25, 2012 14:30:16.721 IS	Message Subscription	n 000008e		End of processing for SiBus (ProcessMessage).
Start SiBus (ConsumeMessage)	Apr 25, 2012 14:36:17-225 IS	from Server2	0000094		Start of processing for SiBus (ConsumeMessage).
End SiBus (ConsumeMessage)	Apr 25, 2012 14:36:17.238 IS		00000094		End of processing for SIBus (ConsumeMessage).
End SIBus (Send)	Apr 25, 2012 14:36:16:657 IS		00000095		End of processing for SIBus (Send).
End JMS (SendMessage)	Apr 25, 2012 14:36:16:657 IS		00000095		End of processing for JMS (SendMessage).
T DO DECIDE	Apr 25 2012 14-36-16 650 IC		0000005		Marcana nublishad successfully Marcana

The SystemOut.log from server1 is loaded to show the inter-thread communication. Interthread communication is captured by XCT and displayed in IBM WebSphere cross component trace log viewer, where the JMS application and MDB application are running in the same server process.

The SystemOut.log from server1 and server2 are loaded to show the Inter server/process communication

Inter server/process communication is captured by XCT and displayed in the IBM WebSphere cross component trace log viewer, where the JMS application and the MDB application are running in different server processes.

Properti	es	
😝 Start	SIBus (ConsumeMessage)	@
Time:	Apr 25, 2012 14:36:16.672 IST	
Thread ID	: 00000097	
Contents:	Translated Raw	
	to sentence in the second s	
		ок
Properti	es	ОК ОК
Properti	es art SIBus (ProcessMessage)	ок е С
Properti Sta Time:	es art SIBus (ProcessMessage) Apr 25, 2012 14:36:16.707 IST	ок — — — — — — — — — — — — — — — — — — —
Properti Sta Time: Thread	es art SIBus (ProcessMessage) Apr 25, 2012 14:36:16.707 IST ID: 0000008e	ок — — — — — — — — — — — — — — — — — — —

The top image shows the message being consumed by the first server, where the JMS application and the MDB application are running in the same server process with the messaging engine. The messaging engine UUID, the destination name from where the message is consumed and the system message ID are captured.

The bottom image shows the message being processed by the second server, where the MDB application runs remotely from the JMS application. The messaging engine UUID of both the source and target messaging engines, the destination name where the message is consumed, and the system message ID are captured.



In this scenario, the JMS application deployed in server1 sends a message to a destination in server2 and receives a response message from that remote destination

The message is sent from server1 to server2 and a response is sent back from server2 to server1

				IBM
Store and forw	ard and ren	note aet		
	and and ron	noto got		
Sending a message	to and receiving	00 2 message	from a re	mote server
Sending a message	to, and receiving	ny a messaye	nom a re	mote server
🛛 🌔 Start HTTPCF (InboundRequest /JMSApp/Remo	oteMess Apr 25, 2012 16:04:39.969 IST		00000096	Start of processing for HTTPCF (InboundRequest /IMSApp/RemoteMessageSend
🗌 问 Start JMS (SendMessage)	Apr 25, 2012 16:04:40.054 IST		00000096	Start of processing for JMS (SendMessage).
🔲 问 Start SIBus (Send)	Apr 25, 2012 16:04:40.055 IST		0000096	Start of processing for SIBus (Send).
Start SIBus (ProcessMessage)	Apr 25, 2012 16:04:40.077 IST		0000008e	Start of processing for SIBus (ProcessMessage).
🔲 End SIBus (ProcessMessage)	Apr 25, 2012 16:04:40.078 IST	Message sent from	0000008e	End of processing for SIBus (ProcessMessage).
🔲 🌔 Start SIBus (ProcessMessage)	Apr 25, 2012 16:08:39.470 IST	application on	00000090	Start of processing for SIBus (ProcessMessage).
End SIBus (ProcessMessage)	Apr 25, 2012 16:08:39.474 IST	destination on	00000090	End of processing for SIBus (ProcessMessage).
🗐 😡 End SIBus (Send)	Apr 25, 2012 16:04:40.072 IST	server2	0000096	End of processing for SIBus (Send).
🗌 😡 End JMS (SendMessage)	Apr 25, 2012 16:04:40.073 IST		0000096	End of processing for JMS (SendMessage).
🗐 🐻 Log message	Apr 25, 2012 16:04:40.074 IST		0000096	Message sent successfully: Message
End HTTPCF (InboundRequest RC=200)	Apr 25, 2012 16:04:40.077 IST		0000096	End of processing for HTTPCF (InboundRequest RC=200).
U Start HTTPCF (InboundRequest /JMSApp/Remo	oteMess Apr 25, 2012 16:08:39.189 IST		0000095	Start of processing for HTTPCF (InboundRequest /JMSApp/RemoteMessageRece
Start JMS (ReceiveInBound)	Apr 25, 2012 16:08:39.448 IST	Message received	00000095	Start of processing for JMS (ReceivelnBound).
🗐 问 Start SJBus (ReceiveNoWait)	Apr 25, 2012 16:08:39.448 IST	at application on	00000095	Start of processing for SIBus (ReceiveNoWait).
🔲 😡 End SIBus (ReceiveNoWait)	Apr 25, 2012 16:08:39.480 IST	destination on	00000095	End of processing for SIBus (ReceiveNoWait).
End JMS (ReceivelnBound)	Apr 25, 2012 16:08:39.480 IST	server2	00000095	End of processing for JMS (ReceivelnBound).
📃 🐻 Log message	Apr 25, 2012 16:08:39.480 IST		00000095	Successfully received message from the Queue: Message
End HTTPCF (InboundRequest RC=200)	Apr 25, 2012 16:08:39.483 IST		00000095	End of processing for HTTPCF (InboundRequest RC=200).
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In this case, two servers are involved.

The SystemOut.log from server1 and server2 are loaded to show the message flow from server1 to server2 and vice versa

The source and target messaging engines UUID's are captured by XCT

lessage send and received w	vith Da	taS	napShot enabled
/pe	▲ Time	Thr	Contents
Start HTTPCF (InboundRequest /JMSApp/JMSDataSnapsho	Apr 25, 2012	0000	Start of processing for HTTPCF (InboundReguest /JMSAp
E Log message	Apr 25, 2012	0000	Creating Text Message
🔄 📴 Log message	Apr 25, 2012	0000	Creation of Text Message Successful
Final Start JMS (SendMessage)	Apr 25, 2012	0000	Start of processing for JMS (SendMessage).
End JMS (SendMessage)	Apr 25, 2012	0000	End of processing for JMS (SendMessage).
Dog message	Apr 25, 2012	0000	Text Message sent successfully: Message
Final Start JMS (ReceiveInBound)	Apr 25, 2012	0000	Start of processing for JMS (ReceiveInBound).
End JMS (ReceivelnBound)	Apr 25, 2012	0000	End of processing for JMS (ReceiveInBound).
🗐 📴 Log message	Apr 25, 2012	0000	Successfully received Message of type null
🖻 📴 Log message	Apr 25, 2012	0000	Creating Map Message
🗐 🕑 Log message	Apr 25, 2012	0000	Creation of Map Message Successful
E Start JMS (SendMessage)	Apr 25, 2012	0000	Start of processing for JMS (SendMessage).
End JMS (SendMessage)	Apr 25, 2012	0000	End of processing for JMS (SendMessage).
🗐 📴 Log message	Apr 25, 2012	0000	Map Message sent successfully: java.util.Collections\$1@
E Start JMS (ReceiveInBound)	Apr 25, 2012	0000	Start of processing for JMS (ReceiveInBound).
End JMS (ReceiveInBound)	Apr 25, 2012	0000	End of processing for JMS (ReceiveInBound).
🗐 國 Log message	Apr 25, 2012	0000	Successfully received Message of type null
🔄 📴 Log message	Apr 25, 2012	0000	Creating Object Message
🔄 📑 Log message	Apr 25, 2012	0000	Creation of Object Message Successful
Image: Start JMS (SendMessage)	Apr 25, 2012	0000	Start of processing for JMS (SendMessage).
🔄 🕒 End JMS (SendMessage)	Apr 25, 2012	0000	End of processing for JMS (SendMessage).
📄 📴 Log message	Apr 25, 2012	0000	Object Message sent successfully: 1024
D Start JMS (ReceiveInBound)	Apr 25, 2012	0000	Start of processing for JMS (ReceiveInBound).
End JMS (ReceiveInBound)	Apr 25, 2012	0000	End of processing for JMS (ReceiveInBound).
🔄 📴 Log message	Apr 25, 2012	0000	Successfully received Message of type null
🗐 📴 Log message	Apr 25, 2012	0000	Creating Stream Message
🗐 📴 Log message	Apr 25, 2012	0000	Creation of Stream Message Successful
Image:	Apr 25, 2012	0000	Start of processing for JMS (SendMessage).
📄 🍚 End JMS (SendMessage)	Apr 25, 2012	0000	End of processing for JMS (SendMessage).
🔄 📴 Log message	Apr 25, 2012	0000	Stream Message sent successfully: String Message
Element JMS (ReceiveInBound)	Apr 25, 2012	0000	Start of processing for JMS (ReceiveInBound).
🔄 🍚 End JMS (ReceiveInBound)	Apr 25, 2012	0000	End of processing for JMS (ReceiveInBound).
🕅 📴 Log message	Apr 25, 2012	0000	Successfully received Message of type null

In this scenario, a message is sent to and received from a local queue destination with the XCT Data Snapshot option enabled.

When the message is sent and received the message data is stored in a file under the snapdata directory which is typically found under the server log root.

CT red	cords	
⊖ Start	JMS (SendMessage)	6
Time:	Apr 25, 2012 17:10:39.725 IST	
Thread ID Contents	00000096	
	: Translated 💿 Raw	
	(2012-4-25-17\JMS_SEND.d15c033b-6b58-4b5e-bd4d-249f90928d10.b	xt))
		~
🔶 End JN	MS (ReceiveInBound)	•
Gend JM	MS (ReceiveInBound) Apr 25, 2012 17:10:39.776 IST	•
ime: Time:	MS (ReceiveInBound) Apr 25, 2012 17:10:39.776 IST 00000096	- ок Ф
End JM Time: Thread ID: Contents:	MS (ReceiveInBound) Apr 25, 2012 17:10:39.776 IST 00000096 Translated ③ Raw	т ок Ф
End JM Time: Thread ID: Contents:	MS (ReceiveInBound) Apr 25, 2012 17:10:39.776 IST 00000096 Translated Raw XCT I END AAArwaw4PHN-AAAAAAAAABBB AAArwaw4PHN-AAAAAAA (ReceiveInBound Message10(D):ea9ec8153a3436cf4ce322e8110a134f0000000000 Attachment(2012-4-25-17\JMS_RECV.bde42294-c0f3-49de-8d4c-52efb905ff2d.tt	ок ©

The XCT log record has the information on the attachment created



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