

The Workflow Management Coalition Specification

Workflow Management Coalition Audit Data Specification

Document Number WFMC-TC-1015

22 Sep 1998 Version 1.1

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Workflow Management Coalition Office 2 Crown Walk Winchester Hampshire S022 5XE United Kingdom Tel: +44 1962 873401 Fax: +44 1962 868111 Email: wfmc@wfmc.org

http://www.wfmc.org/

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First printing, 1998

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0. Change History

Version 1.0

• Initial version.

Version 1.1

- Synchronized with Interface 2 version 2.0
- Synchronized with Interface 4 version 1.0
- Synchronized with OMG Workflow Specification 1.0
- Cleanup of document format

1. Purpose

The purpose of this document is to specify what information needs to be captured and recorded from the various events occurring during a workflow enactment. This document does not define how the data is stored, but what information is to be gathered and made available for analysis. The information will be called Common Workflow Audit Data (CWAD).

This is an abstract specification from which it is intended that concrete bindings will be derived, such as SQL, C, or C++. By defining the semantics for this data, a cohesive analysis is possible when working with heterogeneous workflow products.

2. Audience

The intended audience of this document is the Workflow Management Coalition members as well as others who are interested in Common Workflow Audit Data.

3. Overview

The support of these specifications in workflow products allow analysis of consistent audit data across heterogeneous workflow products. During the initialization and execution of a process instance, multiple events occur which are of interest to a business, including WAPI events, internal WFM Engine operations and other system and application functions. With CWAD information, a business can determine what has occurred in the business operations managed by workflow.

We expect the audit information to be utilized for both analysis and derived status information. In addition the audit data could be needed for proof of execution. The workflow analysis tools will want the information presented in a consistent format, representing all events that occurred within a given set of criteria...such as, how long did process "x" take, what activities have been performed within a given process instance? The presentation of the audit data will be binding specific.

When it is necessary to know what the current status is of a given process instance, an inquiry can be made using the process instance ID. The current state (e.g. open.running) is returned. To understand where the process really is, the audit information measured against the process definition can provide an indication of the true state.

3.1 Design Assumptions

Incremental Set of Data Elements. It is assumed that as the WFM technology evolves, likewise the specifications defined in this document will evolve and will be added to in subsequent versions of this document.

- Individual workflow products will be responsible to define what information and data is recorded. However, all elements specified as required or mandatory for audit data must be implemented as defined.
- Audit data is expected to be used in conjunction with meta data, such as Process ID data or role data. Meaningful data would be available as you connect the various data elements, such as role and organizational data. Optional logging of organizational data could be recorded in either the suffix extension data or in the optional or private data records.
- It is the responsibility of the workflow user to collect audit data from heterogeneous workflow product repositories when consolidation of the data is desired. These specifications will not define a repository type for audit data, nor address archive requirements. The repository types for specific bindings will be specified in other documents.
- These audit data specifications will allow for individual product extensions which may be written by homogeneous WFM products. Vendors are encouraged to register their extensions with the WFM Coalition in order to facilitate a higher level of knowledge for the analyst reviewing the information and for possible future inclusion in these specifications.
- The audit data for each process instance will have a 'product ID' and the product will place information in the process instance audit data such that the set of information concerning the instance will be unique within the collection of audit data for that product.
- The audit data for an activity instance will have a unique ID within a process instance.
- Current Timestamp must be synchronized between process engines within a business domain and will be handled by the underlying systems.
- Code page information is required for both original and optional data.
- Restrictions in certain countries prohibit the keeping of individual's productivity records. This must be kept in mind when making decisions regarding conformance.
- Audit Data Policy will be used to control the collecting of audit data. There will be functions to create and modify a policy.
- A standard set of functions are defined to access the audit data information.

3.2 Defined Terms and Abbreviations

The terms in this document are derived from the following defined in the following documents:

- WfMC Reference Model
- WfMC Glossary
- WfMC WAPI Specification
- WfMC WAPI Naming Conventions
- WfMC Interoperability Specification

3.3 CWAD Naming Conventions

Naming will adhere to the standards described in the document WFM Coalition WAPI Naming Conventions. In addition, new naming conventions for the attributes are proposed to allow for abstract specifications of attributes.

3.4 Conformance

A vendor can not claim conformance to this or any other WfMC specification unless specifically authorized to make that claim by the WfMC. WfMC grants this permission only upon the verification of the particular vendor's implementation of the published specification, according to applicable test procedures defined by WfMC.

There are two types of conformance that relate to the audit information.

For a vendor claiming conformance to a specific conformance profile for a WfMC specification, the vendor will make available the audit information as specified in the conformance statement of the particular specification.

For a vendor claiming conformance exclusively to the audit information, such as one dealing only with metrics, the vendor must conform to the entire audit specification.

3.5 Future Considerations

This specification does not include role, user and security information, which will be handled within the scope of an administration specification, which will include the minimum organizational and security base needed for WfMC standards.

The current specification is concerned with data to be recorded as the result of a WfMC interface function event. In the future, review of process metrics will determine what derived data might be a useful extension of this specification.

4. CWAD Data Information

CWAD audit data consists of three kinds of information: Basic Data, Discretionary Data, and Private Data.

The Basic Data will be recorded and available for audit purposes. Within this information, certain defined elements are specified as mandatory or optional. The mandatory elements must be provided if the event is recorded. Because workflow vendor products operate differently, some audit information will not be applicable and will be considered Discretionary Data.

Except for the required information, contents of the Private Data information is not defined and is available for vendor and/or workflow user private use, which can include data in multiple formats, such as rich text, etc..

When audit information is requested, specific information for that particular event must be available. Depending on the type of audit information being recorded, different data elements will be required and their respective values. The initial process instance ID of the initial (root) process is the key by which all information of that instance is related.

The naming of the events recorded consist of verb-noun-verb-noun syntax. For example, when a request is sent start a process instance on a remote workflow engine, the event is "WMSentRequestStartProcessInstance." For those functions that have events recorded, the events are listed. Included are reference numbers, corresponding to the interfaces where the function is described, such as (2) = WAPI interface, (4) = Interoperability interface. Future events that have been identified, but are not part of the current specifications, are included in this specification and have no reference number ().

4.1 CWAD Data Types

This subsection contains definitions of the Workflow Management types that are operating system or platform dependent (see WfMC Interface 2 version 2.0).

typedef char	WMTInt8;
typedef short	WMTInt16;
typedef long	WMTInt32;
typedef unsigned char	WMTUInt8;
typedef unsigned short	WMTUInt16;
typedef unsigned long	WMTUInt32;
typedef WMTInt8	WMTText;
typedef WMTInt8	WMTBoolean;
#define WMFalse	0
#define WMTrue	(!WMFalse)

Strings are defined as text arrays; the following defines the string sizes used:

#define	NAME_STRING_SIZE	E64
#define	UNIQUE_ID_SIZE	64
#define	TIME_STAMP_SIZE	25

4.2 Examples of Data Types

The following defines the generic types used to describe the CWAD records.

typedef {

WMTInt16 information_length; } WMAInformationLength; /* Information is either prefix or suffix info */

typedef {

WMTText information_type;
} WMAInformationType;

typedef {

WMTText object_id[UNIQUE_ID_SIZE];
} WMAObjectID; /* Object is Process, Activity or Workitem */

typedef {

WMTText object_state;
} WMAObjectState;

typedef {

WMTText object_name[NAME_STRING_SIZE];
} WMAObjectName;

typedef {

WMTText resource_id[UNIQUE_ID_SIZE];

} WMAResourceID; /* Resource is Person, Role or Network Resource */

typedef {

WMTText resource_name[NAME_STRING_SIZE];

} WMAResourceName;

typedef {

WMTText attribute_name[NAME_STRING_SIZE];

} WMAAttributeName;

typedef {

WMTInt32 attribute_type;
} WMAAttributeType;

typedef {

WMTInt32 attribute_length;

} WMAAttributeLength;

typedef {

WMTText attribute_value[NAME_STRING_SIZE];

} WMAAttributeValue;

typedef {

WMTText session_id[UNIQUE_ID_SIZE];
} WMASessionID;

typedef {

WMTInt16 code_page;
} WMACodePage;

typedef {

WMTText timestamp[TIME_STAMP_SIZE];

} WMATimeStamp; /* Time zone (GMT + or - n), date, time, second, microsecond (microsecond is optional) */

typedef {

WMTText event_code;

} WMAEventCode;

4.3 CWAD Prefix Information

Attribute Name	Mandatory/ Optional	Abstract Data Type	Description
InitialProcessInstanceID	M	WMAObjectID	Unique ID of initial (root) process instance.
CurrentProcessInstanceID	М	WMAObjectID	Unique ID of current process instance.
ActivityInstanceID	0	WMAObjectID	Unique ID of current activity instance
ProcessState	М	WMAObjectState	Current state of process instance
EventCode	М	WMAEventCode	Event code value (Appendix A)
DomainID	М	WMAResourceID	ID of Domain of corresponding user
NodeID	М	WMAResourceID	ID of Node of corresponding use
UserID	O*	WMAResourceID	ID of user whom the business would consider the primary person involved with this event. This could be a person or entity.
RoleID	O*	WMAResourceID	The role of the user involved in this event
Timestamp	М	WMATimestamp	Timestamp at the time the event was recorded.
InformationID	М	WMAObjectID	Type of information, such as WfMC, Private

INITIAL PROCESS INSTANCE ID: The unique identification of the initial (root) process instance. A business may wish to consolidate CWAD information from multiple locations. Each instance within the consolidated set should be uniquely identifiable.

Toward that end, the Process Instance Unique ID must be prefixed by a product ID, plus other information which would make it unique. A suggestion for the ID might contain the Source Vendor ID, Domain ID and Node ID and a unique Instance ID.

In the case where an activity initiates a subprocess, the Initial Process Instance ID would contain the original process of the activity. In a hierarchy of processes, the Initial Process Instance ID would contain the Process Instance ID of the immediately above (or calling) process.

CURRENT PROCESS INSTANCE ID: The unique identification of the current process instance. The current process instance ID may be different than that of the Initial Process Instance ID if the current process instance is a subprocess.

* For vendors stating conformance to the Audit Specification, it is optional to record either the UserID or the RoleID, which reflects the person or entity that has accomplished the work for this activity. Vendors must allow for modification of what will be recorded, allowing customers having legal or other contractual requirements to record values other than the true user/role information.

4.4 CWAD Suffix Information

The CWAD suffix information is a set of optional values which, if required by a business or vendor product, are added to multiple event audit information. This suffix information will contain the process relevant data that was specified for the particular completed process, and recorded with process or activity instance audit data.

- The suffix is required for the Process Instance and Activity Instance Audit Data information If there are no extensions, account code will be blank and the number of extensions set to zero.
- If extensions are included, the extension type and extension length will be required for each extension content.
- An extension code page will be included for each extension content. The assumption will be that all other data is recorded in the code page recorded in the prefix information.

Data Element	Μ	Abstract Data Type	Description	
	/		_	
	0			
AccountCode	0	WMAInformationType	Accounting Code used for item of work	
ExtensionNumber	Μ	WMTInt16	Number of extensions in suffix	
			information	
ExtensionType	Μ	WMAInformationType	Type of extension	
ExtensionLength	0	WMAInformationLength	Total length of extension values	
ExtensionCodePage	0	WMACodePage	Code Page used to record extension	
			data content.	
ExtensionContent	0	*	Content, defined by Extension Type and	
			Length	

There may be multiple extensions for each event, generating multiple table entries for that event. The extension type, length, code page, and extension content attributes will need to be recorded for each event.

Notes: Examples of ExtensionTypes can be Data, Vendor Private, Business Private, and Text.

5. Process Instance Audit Information

5.1 Create/Start Process/Subprocess Instance Audit Data

Data Elements	M/O	Data Type	Description
Prefix	Μ		CWAD Prefix Information
ProcessDefinitionID	М	WMAObjectID	Process Definition ID
			identifying the definition used
			for creating this process
			instance.
ProcessDefinitionBusinessName	0	WMAObjectName	Business name of the process
			definition relevant to the
			business.
Suffix	Μ		CWAD Suffix Information

Events Recorded:

Event Description	When Created
WMCreatedProcessInstance	(2,4) Process instance is created.
WMStartedProcessInstance	(2,4) Process instance is started.

5.2 Change Process Instance State Audit Data

Data Elements	M/O	Data Type	Description
Prefix	М		CWAD Prefix Information
PreviousProcessState	М	WMAObjectState	Mandatory for Change Process
			State
NewProcessState	М	WMAObjectState	Mandatory for Change Process
			State
Suffix	М		CWAD Suffix Information

Events Recorded:

Event Description	When Created
WMChangedProcessInstanceState	(2,4) Process state has changed by API or Internal event.
WMCompletedProcessInstance (2,4) Process instance has completed, implied by activity
	completion
WMTerminatedProcessInstance (2,4) Process instance has been terminated.
WMAbortedProcessInstance	(2,4) Process instance has been aborted.

5.3 Assign Process Instance Attribute Audit Data

Data Elements	M/O	Data Type	Description
Prefix	Μ		CWAD Prefix Information
AttributeName	М	WMAAttributeName	Name of attribute changed
AttributeType	М	WMAAttributeType	Type of attribute changed
NewAttributeLength	М	WMAAttributeLength	Length of new value
NewAttributeValue	М	WMAAttributeValue	New value
PreviousAttributeLength	М	WMAAttributeLength	Length of old value
PreviousAttributeValue	М	WMAAttributeValue	Old value
Suffix	Μ		CWAD Suffix Information

Events Recorded:

Event Description

When Created

WMAssignedProcessInstanceAttributes (2,4) Process Instance Attributes have been changed.

6. Activity Instance Audit Information

6.1 Change Activity Instance State Audit Data

When certain events occur that change the activity instance state, this information will be recorded as Activity Instance Audit Data..

Data Elements	M /	Data Type	Description
	0		
Prefix	М		CWAD Prefix Information
ActivityInstanceID	Μ	WMAObjectID	Unique ID for the current
			Activity Instance.
ActivityDefinitionBusinessName	0	WMAObjectName	Business name of the Activity
ApplicationID	0	WMAObjectID	ID of application associated
			with this activity
NewActivityState	М	WMAObjectState	New Activity State
PreviousActivityState	М	WMAObjectState	Previous Activity State
Suffix	Μ		CWAD Suffix Information

Events Recorded

Event Description

When Created

 WMChangedActivityInstanceState
 WMCompletedActivityInstance
 WMTerminatedActivityInstance
 Activity state has changed by API or internal event. This is also used to record the initial state of the activity instance.
 Activity instance has completed, implied by WorkItem completion. OMG has explicit action.
 Activity instance has been terminated, implied by

WMAbortedActivityInstance

terminated process instance. OMG has explicit action. (2) Activity instance has been aborted, implied by aborted process instance. OMG has explicit action.

6.2 Assign Activity Instance Attributes Audit Data

When the attributes to an activity instance are assigned or changed, this information is recorded.

Data Elements	M/O	Data Type	Description
Prefix	М		CWAD Prefix Information
ActivityInstanceID	М	WMAObjectID	Unique ID for Activity
			Instance
ActivityState	0	WMAObjectState	Current Activity State
AttributeName	М	WMAAttributeName	Name of attribute changed
AttributeType	М	WMAAttributeType	Type of attribute changed
NewAttributeLength	М	WMAAttributeLength	Length of new value
NewAttributeValue	М	WMAAttributeValue	New Value
PreviousAttributeLength	М	WMAAttributeLength	Length of previous value
PreviousAttributeValue	М	WMAAttributeValue	Previous Value
Suffix	М		CWAD Suffix Information

Events Recorded:

Event Description

When Created

WMAs signed Activity Instance Attributes

(2) Activity Instance Attributes have been changed.

7. WorkItem Audit Information

7.1 Change WorkItem State Audit Data

A work item has a state and when a change of state occurs, the event is written.

Data Elements	M/O	Data Type	Description
Prefix	Μ		CWAD Prefix Information
ActivityInstanceID	М	WMAObjectID	Unique ID for the current
			Activity Instance.
WorkItemID	М	WMAObjectID	Unique ID for the work item.
WorkItemState	М	WMAObjectState	State of the work item
Suffix	М		CWAD Suffix Information

Events Recorded

Event Description	When Created
WMGetWorkItem	(2) Recording an Audit Data record is optional
WMChangedWorkItemState	(2) Work item state has been changed by API or internal event. This is also used to record the initial state of the WorkItem.
WMStartedWorkItem	() Work item has been started. Implied by Activity actions
WMCompletedWorkItem	(2) Work item has been completed.
WMSelectedWorkItem	(2) User has selected work item off worklist. This includes get, select, reserve, checkout.

7.2 Assign/Reassign WorkItem Audit Data

When a work item is assigned or reassigned, the audit information is written.

Data Elements	M /	Data Type	Description
	0		
Prefix	М		CWAD Prefix Information
ActivityInstanceID	Μ	WMAObjectID	Unique ID for current Activity
			Instance.
WorkItemID	М	WMAObjectID	Unique ID for work item.
WorkItemState	М	WMAObjectState	State of work item
TargetDomainID	М	WMAResourceID	Domain ID for user being assigned
			work item
TargetNodeID	М	WMAResourceID	Node ID for user being assigned
			work item.
TargetUserID	0	WMAResourceID	User ID for user being assigned
			work item.
TargetRoleID	0	WMAResourceID	Role ID for user being assigned
			work item.
Suffix	Μ		CWAD Suffix Information

Events Recorded

Event Description	When Created
WMAssignedWorkItem	(2) Work item is placed on user's worklist. Implied by Activity actions.
WMReassignedWorkItem	(2) Work item has been reassigned to one or more users.

Notes:

For a worklist to be reassigned, the assignment is by multiple work item assignments.

7.3 Assign Work Item Attribute Audit Data

Data Elements	M/O	Data Type	Description
Prefix	М		CWAD Prefix Information
ActivityInstanceID	М	WMAObjectID	Unique ID for Activity
			Instance
ActivityState	0	WMAObjectState	Current Activity State
AttributeName	Μ	WMAAttributeName	Name of attribute changed
AttributeType	М	WMAAttributeType	Type of attribute changed
NewAttributeLength	М	WMAAttributeLength	Length of new value
NewAttributeValue	М	WMAAttributeValue	New Value
PreviousAttributeLength	М	WMAAttributeLength	Length of previous value
PreviousAttributeValue	М	WMAAttributeValue	Previous Value
Suffix	М		CWAD Suffix Information

Events Recorded

Event Description

WMAssignedWorkItemAttributes

When Created

(2) When a workitem attribute is assigned a value

8. Remote Operations Information

8.1 Overview

There are eight remote operation situations for which audit data must be collected:

- 1. Start Conversation
- 2. Stop Conversation
- 3. Create Process Instance
- 4. Change Process Instance State
- 5. Change Process Instance Attribute
- 6. Get Process Instance Attributes
- 7. Process Instance State Changed
- 8. Process Instance Attribute Changed

For each message sent there is an audit data record on each machine. For example, the Change Process Instance State has 3 messages: a Request, an Operation and a Response. This results in 6 audit data records. There are differences in the records depending on whether the source or target Workflow Engine is involved.

Each message consists of four parts:

- 1. The Prefix, same as for local audit data records.
- 2. The Remote Prefix, same for all remote audit data records.
- 3. The Body, specific information.
- 4. The Remote Suffix, same for all remote audit data records.

8.2 Start Conversation

For the following audit data records the Event Code in the Prefix is 'WMStartedConversation'.

Data Elements	M/O	Data Type	Description
Prefix	М		CWAD Prefix Information
MessageID	0	WMAObjectID	Message ID associated with event.
CorrespondentContextID	М	WMAResourceID	ContractID of Workflow Engine accepting the conversation request.
CorrespondentNodeID	М	WMAResourceID	Node ID of the Workflow Engine accepting the coversation request.
Extension Number	М	WMTInt16	'1'
Extension Type	М	WMTText	'4MIME'
SourceConverstaion ID	М	WMTText	As supplied by the source Workflow Engine or by the transport mechanism.
TargetConversation ID	М	WMTText	As supplied by the target Workflow Engine or by the transport mechanism

8.2.1 Source Workflow Engine Audit Data

Data Elements	M/O	Data Type	Description
Prefix	М		CWAD Prefix Information
MessageID	0	WMAObjectID	Message ID associated with
			event.
CorrespondentContextID	Μ	WMAResourceID	ContractID of source Workflow
			Engine source conversation start.
CorrespondentNodeID	М	WMAResourceID	Node ID of source Workflow
			Engine source coversation start.
Extension Number	М	WMTInt16	'1'
Extension Type	М	WMTText	'4MIME'
SourceConverstaion ID	М	WMTText	As supplied by the source
			Workflow Engine or by the
			transport mechanism.
TargetConversation ID	М	WMTText	As supplied by the target
-			Workflow Engine or by the
			transport mechanism

8.2.2 Target Workflow Engine Audit Data

8.3 Stop Conversation

For the following audit data records the Event Code in the Prefix is 'WMStoppedConversation'.

8.3.1 Source Workflow Engine Audit Data

Data Elements	M/O	Data Type	Description
Prefix	М		CWAD Prefix Information
MessageID	0	WMAObjectID	Message ID associated with
			event.
CorrespondentContextID	Μ	WMAResourceID	ContractID of Workflow Engine
			accepting the conversation
			request.
CorrespondentNodeID	М	WMAResourceID	Node ID of the Workflow Engine
			accepting the coversation
			request.
Extension Number	М	WMTInt16	'1'
Extension Type	М	WMTText	'4MIME'
SourceConverstaion ID	М	WMTText	As supplied by the source
			Workflow Engine or by the
			transport mechanism.
TargetConversation ID	М	WMTText	As supplied by the target
			Workflow Engine or by the
			transport mechanism

8.3.2 Target Workflow Engine Audit Data

Data ElementsM/OData TypeDescription

Prefix	М		CWAD Prefix Information
MessageID	0	WMAObjectID	Message ID associated with
			event.
CorrespondentContextID	Μ	WMAResourceID	ContractID of Workflow Engine
			source conversation stop.
CorrespondentNodeID	Μ	WMAResourceID	Node ID of Workflow Engine
			source coversation stop.
Extension Number	Μ	WMTInt16	'1'
Extension Type	Μ	WMTText	'4MIME'
SourceConverstaion ID	Μ	WMTText	As supplied by the source
			Workflow Engine or by the
			transport mechanism.
TargetConversation ID	М	WMTText	As supplied by the target
			Workflow Engine or by the
			transport mechanism

8.4 Create Process Instance

This results in 6 audit data records being written, 3 on the source machine and 3 on the target machine. The audit data cooresponds to the request, the operation and the response. The Event Code in the Prefix varies with each audit data record:

- Source Request 'WMSentRequestCreateProcessInstance'
- Target Request 'WMReceivedRequestCreateProcessInstance'
- Source Operation 'WMCreatedProcessInstance'
- Target Operation 'WMCreatedProcessInstance'
- Source Response 'WMReceivedCreatedProcessInstance'
- Target Response 'WMSentCreatedProcessInstance'

8.4.1 Source Workflow Engine Request Audit Data

Data Elements	M/O	Data Type	Description
Prefix	Μ		CWAD Prefix Information
MessageID	0	WMAObjectID	Message ID associated with event.
SourceActivityDefinitionBusin essName	0	WMAObjectName	Business name of current activity on the source engine originating the request to create a new process instance.
TargetProcessDefinition ID	М	WMAObjectID	as supplied to the target Workflow Engine
TargetProcessInstance ID	М	WMAObjectID	process instance created on the target Workflow Engine
TargetProcessDefinitionBusine ssName	0	WMAObjectName	null as supplied by target Workflow Engine
TargetNodeID	М	WMTResourceID	Node ID of Workflow Engine accepting the conversation

			request
TargetUserID	0	WMTResourceID	null ID of remote user requested
			to perform the process
TargetRoleID	0	WMTResourceID	null IS of remote role requested
			to perform the process
TargetState	0	WMTObjectState	State of new process instance
Extension Number	М	WMTInt16	'1'
Extension Type	М	WMTText	'4MIME'
SourceConverstaion ID	М	WMTText	As supplied by the source
			Workflow Engine or by the
			transport mechanism.
TargetConversation ID	М	WMTText	As supplied by the target
			Workflow Engine or by the
			transport mechanism

8.4.2 Target Workflow Engine Request Audit Data

Data Elements	M/O	Data Type	Description
Prefix	М		CWAD Prefix Information
MessageID	0	WMAObjectID	Message ID associated with
			event.
SourceInitialProcessInstance	Μ	WMAObjectID	Initial Process Instance ID of
ID			source Workflow Engine
SourceCurrentProcessInstance	Μ	WMAObjectID	Current Process Instance ID of
ID			source Workflow Engine.
SourceActivityInstanceID	М	WMAObjectID	Activity Instance ID of the
			source Workflow Engine.
SourceTimestamp	Μ	WMTDateTime	Timestamp of source Workflow
			Engine event.
SourceNodeID	М	WMTResourceID	Node ID of sourceWorkflow
	_		Engine.
SourceUserID	0	WMTResourceID	User ID associated with the
			remote Workflow Engine request
SourceRoleID	0	WMTResourceID	Role ID associated with the
			remote Workflow Engine request
SourceProcessDefinitionID	М	WMTObjectID	as supplied by the source
	0		Workflow Engine.
SourceProcessDefinitionBusin	0	WMTObjectName	Business name of the remote
essName			Workflow Engine process that
Course A stight Definition Dusin	0	WATOLisetNerre	generated the start request. Business name of the remote
SourceActivityDefinitionBusin essName	0	WMTObjectName	Workflow Engine activity that
essivalle			spawned the request.
Extension Number	М	WMTInt16	'1'
Extension Type	M	WMTText	'4MIME'
SourceConverstaion ID	M	WMTText	As supplied by the source
Sourceconversitation ID	141		Workflow Engine or by the
			transport mechanism.
	I		transport meenamsm.

TargetConversation ID	М	WMTText	As supplied by the target
			Workflow Engine or by the
			transport mechanism

8.4.3 Source Workflow Engine Operation Audit Data

Data Elements	M/O	Data Type	Description
Prefix	М		CWAD Prefix Information
MessageID	0	WMAObjectID	Message ID associated with
			event.
SourceActivityInstanceID	Μ	WMAObjectID	Activity ID on source Workflow
			Engine
RemoteNodeID	Μ	WMAResourceID	Node ID of target Workflow
			Engine
RemoteProcessInstanceID	Μ	WMAObjectID	process instance created on the
			target Workflow Engine
RemoteTimestamp	Μ	WMTDateTime	Timestamp for when process
			instance created on target
			Workflow Engine
RemoteProcessDefinitionBusin	0	WMTObjectName	null as supplied by target
essName			Workflow Engine
Extension Number	Μ	WMTInt16	'1'
Extension Type	Μ	WMTText	'4MIME'
SourceConverstaion ID	Μ	WMTText	As supplied by the source
			Workflow Engine or by the
			transport mechanism.
TargetConversation ID	Μ	WMTText	As supplied by the target
			Workflow Engine or by the
			transport mechanism

8.4.4 Target Workflow Engine Operation Audit Data

Data Elements	M/O	Data Type	Description
Prefix	Μ		CWAD Prefix Information
MessageID	0	WMAObjectID	Message ID associated with event.
ProcessDefinitionID	М	WMAObjectID	Process definition ID identifying the definition used to create this process instance.
ProcessDefinitionBusinessNa	0	WMTObjectName	Business name of the process
me			definition.
Extension Number	Μ	WMTInt16	'1'
Extension Type	М	WMTText	'4MIME'
SourceConverstaion ID	М	WMTText	As supplied by the source
			Workflow Engine or by the
			transport mechanism.
TargetConversation ID	Μ	WMTText	As supplied by the target
			Workflow Engine or by the

	transport mechanism
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8.4.5 Source Workflow Engine Response Audit Data

Data Elements	M/O	Data Type	Description
Prefix	М		CWAD Prefix Information
MessageID	0	WMAObjectID	Message ID associated with event.
SourceActivityDefinitionBusin essName	0	WMAObjectName	Business name of current activity on the source engine originating the request to create a new process instance.
TargetProcessDefinition ID	М	WMAObjectID	as supplied to the target Workflow Engine
TargetProcessInstance ID	М	WMAObjectID	process instance created on the target Workflow Engine
TargetProcessDefinitionBusine ssName	0	WMAObjectName	null as supplied by target Workflow Engine
TargetNodeID	М	WMTResourceID	Node ID of Workflow Engine accepting the conversation request
TargetUserID	0	WMTResourceID	null ID of remote user requested to perform the process
TargetRoleID	0	WMTResourceID	null IS of remote role requested to perform the process
TargetState	0	WMTObjectState	State of new process instance
Extension Number	Μ	WMTInt16	'1'
Extension Type	Μ	WMTText	'4MIME'
SourceConverstaion ID	М	WMTText	As supplied by the source Workflow Engine or by the transport mechanism.
TargetConversation ID	М	WMTText	As supplied by the target Workflow Engine or by the transport mechanism

8.4.6 Target Workflow Engine Response Audit Data

Data Elements	M/O	Data Type	Description
Prefix	Μ		CWAD Prefix Information
MessageID	0	WMAObjectID	Message ID associated with event.
SourceInitialProcessInstance ID	М	WMAObjectID	Initial Process Instance ID of source Workflow Engine
SourceCurrentProcessInstance ID	М	WMAObjectID	Current Process Instance ID of source Workflow Engine.
SourceActivityInstanceID	Μ	WMAObjectID	Activity Instance ID of the

			source Workflow Engine.
SourceTimestamp	М	WMTDateTime	Timestamp of source Workflow
			Engine event.
SourceNodeID	Μ	WMTResourceID	Node ID of sourceWorkflow
			Engine.
SourceUserID	0	WMTResourceID	User ID associated with the
			remote Workflow Engine request
SourceRoleID	0	WMTResourceID	Role ID associated with the
			remote Workflow Engine request
SourceProcessDefinitionID	М	WMTObjectID	as supplied by the source
			Workflow Engine.
SourceProcessDefinitionBusin	0	WMTObjectName	Business name of the remote
essName			Workflow Engine process that
			generated the start request.
SourceActivityDefinitionBusin	0	WMTObjectName	Business name of the remote
essName			Workflow Engine activity that
			spawned the request.
Extension Number	М	WMTInt16	'1'
Extension Type	Μ	WMTText	'4MIME'
SourceConverstaion ID	М	WMTText	As supplied by the source
			Workflow Engine or by the
			transport mechanism.
TargetConversation ID	М	WMTText	As supplied by the target
			Workflow Engine or by the
			transport mechanism

8.5 Change Process Instance State

This results in 6 audit data records being written, 3 on the source machine and 3 on the target machine. The audit data cooresponds to the request, the operation and the response. The Event Code in the Prefix varies with each audit data record:

- Source Request 'WMSentRequestChangeProcessInstanceState'
- Target Request 'WMReceivedRequestChangeProcessInstanceState'
- Source Operation 'WMChangeProcessInstanceState'
- Target Operation 'WMChangeProcessInstanceState'
- Source Response 'WMReceivedChangeProcessInstanceState'
- Target Response 'WMSentChangeProcessInstanceState'

8.5.1 Source Workflow Engine Request Audit Data

Data Elements	M/O	Data Type	Description
Prefix	Μ		CWAD Prefix Information
MessageID	0	WMAObjectID	Message ID associated with event.
SourceActivityDefinitionBusin	0	WMAObjectName	Business name of current activity
essName			on the source engine originating

			the request to create a new
			process instance.
TargetProcessDefinition ID	0	WMAObjectID	as supplied to the target
			Workflow Engine
TargetProcessInstance ID	Μ	WMAObjectID	process instance created on the
			target Workflow Engine
TargetProcessDefinitionBusine	0	WMTObjectName	null as supplied by target
ssName			Workflow Engine
TargetNodeID	Μ	WMTResourceID	Node ID of Workflow Engine
			accepting the conversation
			request
TargetUserID	0	WMTResourceID	null ID of remote user requested
			to perform the process
TargetRoleID	0	WMTResourceID	null IS of remote role requested
			to perform the process
TargetState	0	WMTObjectState	New state of process instance
Extension Number	Μ	WMTInt16	'1'
Extension Type	Μ	WMTText	'4MIME'
SourceConverstaion ID	Μ	WMTText	As supplied by the source
			Workflow Engine or by the
			transport mechanism.
TargetConversation ID	Μ	WMTText	As supplied by the target
			Workflow Engine or by the
			transport mechanism

8.5.2 Target Workflow Engine Request Audit Data

Data Elements	M/O	Data Type	Description
Prefix	М		CWAD Prefix Information
MessageID	0	WMAObjectID	Message ID associated with
			event.
SourceInitialProcessInstance	Μ	WMAObjectID	Initial Process Instance ID of
ID			source Workflow Engine
SourceCurrentProcessInstance	Μ	WMAObjectID	Current Process Instance ID of
ID			source Workflow Engine.
SourceActivityInstanceID	Μ	WMAObjectID	Activity Instance ID of the
			source Workflow Engine.
SourceTimestamp	Μ	WMTDateTime	Timestamp of source Workflow
			Engine event.
SourceNodeID	Μ	WMTResourceID	Node ID of sourceWorkflow
			Engine.
SourceUserID	0	WMTResourceID	User ID associated with the
			remote Workflow Engine request
SourceRoleID	0	WMTResourceID	Role ID associated with the
			remote Workflow Engine request
SourceProcessDefinitionID	Μ	WMTObjectID	as supplied by the source
			Workflow Engine.
SourceProcessDefinitionBusin	0	WMTObjectName	Business name of the remote

essName			Workflow Engine process that generated the start request.
SourceActivityDefinitionBusin essName	0	WMTObjectName	Business name of the remote Workflow Engine activity that spawned the request.
SourceRequestedState	М	WMTObjectState	State process instance requested to change to.
Extension Number	М	WMTInt16	'1'
Extension Type	Μ	WMTText	'4MIME'
SourceConverstaion ID	М	WMTText	As supplied by the source Workflow Engine or by the transport mechanism.
TargetConversation ID	М	WMTText	As supplied by the target Workflow Engine or by the transport mechanism

8.5.3 Source Workflow Engine Operation Audit Data

Data Elements	M/O	Data Type	Description
Prefix	Μ		CWAD Prefix Information
MessageID	0	WMAObjectID	Message ID associated with
			event.
SourceActivityInstanceID	Μ	WMAObjectID	Activity ID on source Workflow
			Engine
RemoteNodeID	Μ	WMAResourceID	Node ID of target Workflow
			Engine
RemoteProcessInstanceID	Μ	WMAObjectID	process instance created on the
			target Workflow Engine
RemoteTimestamp	Μ	WMTDateTime	Timestamp for when process
			instance created on target
			Workflow Engine
RemoteProcessDefinitionBusin	0	WMTObjectName	null as supplied by target
essName			Workflow Engine
Extension Number	Μ	WMTInt16	'1'
Extension Type	Μ	WMTText	'4MIME'
SourceConverstaion ID	Μ	WMTText	As supplied by the source
			Workflow Engine or by the
			transport mechanism.
TargetConversation ID	Μ	WMTText	As supplied by the target
			Workflow Engine or by the
			transport mechanism

8.5.4 Target Workflow Engine Operation Audit Data

Data Elements	M/O	Data Type	Description
Prefix	М		CWAD Prefix Information
MessageID	0	WMAObjectID	Message ID associated with
			event.

PreviousProcessState	М	WMAObjectState	State of process instance prior to
			change
NewProcessState	М	WMTObjectState	New state of process instance.
Extension Number	М	WMTInt16	'1'
Extension Type	М	WMTText	'4MIME'
SourceConverstaion ID	М	WMTText	As supplied by the source
			Workflow Engine or by the
			transport mechanism.
TargetConversation ID	М	WMTText	As supplied by the target
			Workflow Engine or by the
			transport mechanism

8.5.5 Source Workflow Engine Response Audit Data

Data Elements	M/O	Data Type	Description
Prefix	М		CWAD Prefix Information
MessageID	0	WMAObjectID	Message ID associated with event.
SourceInitialProcessInstanceI D	М	WMAObjectID	Initial process instance id of source Workflow Engine
SourceCurrentProcessInstance ID	М	WMAObjectID	Current process instance ID of the source Workflow Engine.
SourceActivityInstanceID	М	WMAObjectID	Activity instance ID of the source Workflow Engine.
SourceTimestamp	М	WMTDateTime	Timestamp of source Workflow Engine Event.
SourceNodeID	М	WMTResourceID	Node ID of the source Workflow Engine.
SourceUserID	0	WMTResourceID	User ID associated with the remote Workflow Engine request.
SourceRoleID	0	WMTResourceID	User ID associated with the remote Workflow Engine request.
SourceProcessDefinitionID	0	WMTObjectID	As supplied by source Workflow Engine
SourceProcessDefinitionBusin essName	0	WMTObjectName	null Business name of remote Workflow Engine process that initiated the process instance
SourceActivityDefinitionBusin essName	0	WMTObjectName	Business name of the remote Workflow Engine activity spawnning the request.
SourceRequestedState	М	WMTObjectState	State process instance requested to change to.
NewState	М	WMTObjectState	New state of remote process instance.
Extension Number	Μ	WMTInt16	'1'

Extension Type	Μ	WMTText	'4MIME'
SourceConverstaion ID	М	WMTText	As supplied by the source
			Workflow Engine or by the
			transport mechanism.
TargetConversation ID	М	WMTText	As supplied by the target
			Workflow Engine or by the
			transport mechanism

8.5.6 Target Workflow Engine Response Audit Data

Data Elements	M/O	Data Type	Description
Prefix	М		CWAD Prefix Information
MessageID	0	WMAObjectID	Message ID associated with event.
SourceActivityDefinitionBusin essName	0	WMAObjectName	Business name of the current activity on the source engine originating the request to change the process state
TargetProcessDefinitionID	0	WMAObjectID	As supplied to the target Workflow Engine
TargetProcessInstanceID	0	WMAObjectID	Process instance on target Workflow Engine.
TargetProcessDefinitionBusine ssName	0	WMTObjectName	null as supplied by target Workflow Engine.
TargetNodeID	М	WMTResourceID	Node ID of target Workflow Engine accepting change state request.
TargetUserID	0	WMTResourceID	null ID of remote user currently performing the process.
TargetRoleID	0	WMTResourceID	null ID of remote role currently performing the process.
TargetState	М	WMTObjectState	New state of process instance on remote engine.
PreviousState	М	WMTObjectState	Previous state of process instance on remote engine.
Extension Number	М	WMTInt16	'1'
Extension Type	М	WMTText	'4MIME'
SourceConverstaion ID	М	WMTText	As supplied by the source Workflow Engine or by the transport mechanism.
TargetConversation ID	М	WMTText	As supplied by the target Workflow Engine or by the transport mechanism

8.6 Get Process Instance Attributes

This results in 4 audit data records being written, 2 on the source machine and 2 on the target machine. The audit data cooresponds to the request and the response. The Event Code in the Prefix varies with each audit data record:

- Source Request 'WMSentRequestGetProcessInstanceAttribute' •
- Target Request - 'WMReceivedRequestGetProcessInstanceAttribute'
- Source Response 'WMReceivedGetProcessInstanceAttribute' •
- Target Response 'WMSentChangeProcessInstanceState' •

Data Elements	M/O	Data Type	Description
Prefix	Μ		CWAD Prefix Information
MessageID	0	WMAObjectID	Message ID associated with
			event.
SourceActivityDefinitionBusin	0	WMAObjectName	Null Business name of the
essName			current activity on the source
			engine originating the request to
			change the process state
TargetProcessInstanceID	Μ	WMAObjectID	Process instance on target
			Workflow Engine.
TargetProcessDefinitionBusine	0	WMTObjectName	null as supplied by target
ssName			Workflow Engine.
TargetNodeID	Μ	WMTResourceID	Node ID of target Workflow
			Engine accepting change state
			request.
TargetUserID	0	WMTResourceID	null ID of remote user currently
			performing the process.
TargetRoleID	0	WMTResourceID	null ID of remote role currently
			performing the process.
AttributeName	Μ	WMTAttributeName	Name of attribute requested
Extension Number	Μ	WMTInt16	'1'
Extension Type	Μ	WMTText	'4MIME'
SourceConverstaion ID	Μ	WMTText	As supplied by the source
			Workflow Engine or by the
			transport mechanism.

WMTText

8.6.1 Source Workflow Engine Request Audit Data

8.6.2 Target Workflow Engine Request Audit Data

Μ

TargetConversation ID

Data Elements	M/O	Data Type	Description
Prefix	Μ		CWAD Prefix Information
MessageID	0	WMAObjectID	Message ID associated with event.
SourceInitialProcessInstance	М	WMAObjectID	Initial Process Instance ID of source Workflow Engine

As supplied by the target Workflow Engine or by the transport mechanism

SourceCurrentProcessInstance	М	WMAObjectID	Current Process Instance ID of
ID			source Workflow Engine.
SourceActivityInstanceID	Μ	WMAObjectID	Activity Instance ID of the
			source Workflow Engine.
SourceTimestamp	Μ	WMTDateTime	Timestamp of source Workflow
			Engine event.
SourceNodeID	Μ	WMTResourceID	Node ID of sourceWorkflow
			Engine.
SourceUserID	0	WMTResourceID	User ID associated with the
			remote Workflow Engine request
SourceRoleID	0	WMTResourceID	Role ID associated with the
			remote Workflow Engine request
SourceProcessDefinitionID	М	WMTObjectID	as supplied by the source
			Workflow Engine.
SourceProcessDefinitionBusin	0	WMTObjectName	Business name of the remote
essName			Workflow Engine process that
			generated the start request.
SourceActivityDefinitionBusin	0	WMTObjectName	Business name of the remote
essName			Workflow Engine activity that
			spawned the request.
AttributeName	М	WMTAttributeName	Name of attribute requested
Extension Number	М	WMTInt16	'1'
Extension Type	М	WMTText	'4MIME'
SourceConverstaion ID	М	WMTText	As supplied by the source
			Workflow Engine or by the
			transport mechanism.
TargetConversation ID	М	WMTText	As supplied by the target
			Workflow Engine or by the
			transport mechanism

8.6.3 Source Workflow Engine Response Audit Data

Data Elements	M/O	Data Type	Description
Prefix	М		CWAD Prefix Information
MessageID	0	WMAObjectID	Message ID associated with event.
SourceInitialProcessInstance ID	М	WMAObjectID	Initial Process Instance ID of source Workflow Engine
SourceCurrentProcessInstance ID	М	WMAObjectID	Current Process Instance ID of source Workflow Engine.
SourceActivityInstanceID	М	WMAObjectID	Activity Instance ID of the source Workflow Engine.
SourceTimestamp	М	WMTDateTime	Timestamp of source Workflow Engine event.
SourceNodeID	М	WMTResourceID	Node ID of sourceWorkflow Engine.
SourceUserID	0	WMTResourceID	User ID associated with the

			remote Workflow Engine request
SourceRoleID	0	WMTResourceID	Role ID associated with the
			remote Workflow Engine request
SourceProcessDefinitionID	Μ	WMTObjectID	as supplied by the source
			Workflow Engine.
SourceProcessDefinitionBusin	0	WMTObjectName	Business name of the remote
essName			Workflow Engine process that
			generated the start request.
SourceActivityDefinitionBusin	0	WMTObjectName	Business name of the remote
essName			Workflow Engine activity that
			spawned the request.
AttributeName	0	WMTAttributeName	Name of attribute requested
AttributeType	0	WMTAttributeType	Type of attribute requested
Attributelength	0	WMTAttributeLength	Length of requested attribute
Attributevalue	0	WMTAttributeValue	value
Extension Number	Μ	WMTInt16	'1'
Extension Type	Μ	WMTText	'4MIME'
SourceConverstaion ID	Μ	WMTText	As supplied by the source
			Workflow Engine or by the
			transport mechanism.
TargetConversation ID	Μ	WMTText	As supplied by the target
			Workflow Engine or by the
			transport mechanism

8.6.4 Target Workflow Engine Response Audit Data

Data Elements	M/O	Data Type	Description
Prefix	Μ		CWAD Prefix Information
MessageID	0	WMAObjectID	Message ID associated with
			event.
SourceActivityDefinitionBusin	0	WMAObjectName	Business name of the current
essName			activity on the source engine
			originating the request to change
			the process state
TargetProcessDefinitionID	0	WMAObjectID	As supplied to the target
			Workflow Engine
TargetProcessInstanceID	0	WMAObjectID	Process instance on target
			Workflow Engine.
TargetProcessDefinitionBusine	0	WMTObjectName	null as supplied by target
ssName			Workflow Engine.
TargetNodeID	Μ	WMTResourceID	Node ID of target Workflow
			Engine accepting change state
			request.
TargetUserID	0	WMTResourceID	null ID of remote user currently
			performing the process.
TargetRoleID	0	WMTResourceID	null ID of remote role currently
			performing the process.

AttributeName	0	WMTAttributeName	Name of attribute requested
AttributeType	0	WMTAttributeType	Type of attribute requested
AttributeLength	0	WMTAttributeLength	Length of requested attribute
AttributeValue	0	WMTAttributeValue	value
Extension Number	М	WMTInt16	'1'
Extension Type	М	WMTText	'4MIME'
SourceConverstaion ID	М	WMTText	As supplied by the source
			Workflow Engine or by the
			transport mechanism.
TargetConversation ID	М	WMTText	As supplied by the target
			Workflow Engine or by the
			transport mechanism

8.7 Set Process Instance Attributes

This results in 6 audit data records being written, 3 on the source machine and 3 on the target machine. The audit data cooresponds to the request, the operation and the response. The Event Code in the Prefix varies with each audit data record:

- Source Request 'WMSentRequestChangeProcessInstanceAttribute'
- Target Request 'WMReceivedRequestChangeProcessInstanceAttribute'
- Source Operation 'WMAsignedProcessInstanceAttribute'
- Target Operation 'WMAssignedProcessInstanceAttribute'
- Source Response 'WMReceivedChangeProcessInstanceAttribute'
- Target Response 'WMSentChangeProcessInstanceAttribute'

Data Elements	M/O	Data Type	Description
Prefix	М		CWAD Prefix Information
MessageID	0	WMAObjectID	Message ID associated with event.
SourceActivityDefinitionBusin essName	0	WMAObjectName	Business name of current activity on the source engine originating the request to create a new process instance.
TargetProcessDefinition ID	0	WMAObjectID	as supplied to the target Workflow Engine
TargetProcessInstance ID	М	WMAObjectID	process instance created on the target Workflow Engine
TargetProcessDefinitionBusine ssName	0	WMTObjectName	null as supplied by target Workflow Engine
TargetNodeID	М	WMTResourceID	Node ID of Workflow Engine accepting the conversation request
TargetUserID	0	WMTResourceID	null ID of remote user requested to perform the process

8.7.1	Source	Workflow	Engine	Request Audit Data
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TargetRoleID	0	WMTResourceID	null IS of remote role requested
			to perform the process
AttributeName	0	WMTAttributeName	Name of attribute requested
AttributeType	0	WMTAttributeType	Type of attribute requested
AttributeLength	0	WMTAttributeLength	Length of requested attribute
AttributeValue	0	WMTAttributeValue	New value
Extension Number	М	WMTInt16	'1'
Extension Type	М	WMTText	'4MIME'
SourceConverstaion ID	М	WMTText	As supplied by the source
			Workflow Engine or by the
			transport mechanism.
TargetConversation ID	М	WMTText	As supplied by the target
			Workflow Engine or by the
			transport mechanism

8.7.2 Target Workflow Engine Request Audit Data

Data Elements	M/O	Data Type	Description
Prefix	М		CWAD Prefix Information
MessageID	0	WMAObjectID	Message ID associated with
			event.
SourceInitialProcessInstance	М	WMAObjectID	Initial Process Instance ID of
ID			source Workflow Engine
SourceCurrentProcessInstance	Μ	WMAObjectID	Current Process Instance ID of
ID			source Workflow Engine.
SourceActivityInstanceID	Μ	WMAObjectID	Activity Instance ID of the
			source Workflow Engine.
SourceTimestamp	Μ	WMTDateTime	Timestamp of source Workflow
			Engine event.
SourceNodeID	Μ	WMTResourceID	Node ID of sourceWorkflow
			Engine.
SourceUserID	0	WMTResourceID	User ID associated with the
			remote Workflow Engine request
SourceRoleID	0	WMTResourceID	Role ID associated with the
			remote Workflow Engine request
SourceProcessDefinitionID	Μ	WMTObjectID	as supplied by the source
			Workflow Engine.
SourceProcessDefinitionBusin	0	WMTObjectName	Business name of the remote
essName			Workflow Engine process that
			generated the start request.
SourceActivityDefinitionBusin	0	WMTObjectName	Business name of the remote
essName			Workflow Engine activity that
			spawned the request.
AttributeName	0	WMTAttributeName	Name of attribute requested
AttributeType	0	WMTAttributeType	Type of attribute requested
AttributeLength	0	WMTAttributeLength	Length of requested attribute
AttributeValue	0	WMTAttributeValue	New value
Extension Number	Μ	WMTInt16	'1'

Extension Type	М	WMTText	'4MIME'
SourceConverstaion ID	М	WMTText	As supplied by the source
			Workflow Engine or by the
			transport mechanism.
TargetConversation ID	М	WMTText	As supplied by the target
			Workflow Engine or by the
			transport mechanism

8.7.3 Source Workflow Engine Operation Audit Data

Data Elements	M/O	Data Type	Description
Prefix	Μ		CWAD Prefix Information
MessageID	0	WMAObjectID	Message ID associated with
			event.
SourceActivityInstanceID	Μ	WMAObjectID	Activity ID on source Workflow
			Engine
RemoteNodeID	Μ	WMAResourceID	Node ID of target Workflow
			Engine
RemoteProcessInstanceID	Μ	WMAObjectID	process instance created on the
			target Workflow Engine
RemoteTimestamp	Μ	WMTDateTime	Timestamp for when process
			instance created on target
			Workflow Engine
RemoteProcessDefinitionBusin	0	WMTObjectName	null as supplied by target
essName			Workflow Engine
AttributeName	0	WMTAttributeName	Name of attribute requested
AttributeType	0	WMTAttributeType	Type of attribute requested
AttributeLength	0	WMTAttributeLength	Length of requested attribute
AttributeValue	0	WMTAttributeValue	value
Extension Number	Μ	WMTInt16	'1'
Extension Type	Μ	WMTText	'4MIME'
SourceConverstaion ID	Μ	WMTText	As supplied by the source
			Workflow Engine or by the
			transport mechanism.
TargetConversation ID	Μ	WMTText	As supplied by the target
			Workflow Engine or by the
			transport mechanism

8.7.4 Target Workflow Engine Operation Audit Data

Data Elements	M/O	Data Type	Description
Prefix	М		CWAD Prefix Information
MessageID	0	WMAObjectID	Message ID associated with
			event.
AttributeName	0	WMTAttributeName	Name of attribute requested
AttributeType	0	WMTAttributeType	Type of attribute requested
AttributeLength	0	WMTAttributeLength	Length of requested attribute

AttributeValue	0	WMTAttributeValue	value
PreviousAttributeLength	0	WMTAttributeLength	Previous Length of attribute
PreviousAttributeValue	0	WMTAttributeValue	Previous value
Extension Number	Μ	WMTInt16	'1'
Extension Type	М	WMTText	'4MIME'
SourceConverstaion ID	М	WMTText	As supplied by the source
			Workflow Engine or by the
			transport mechanism.
TargetConversation ID	Μ	WMTText	As supplied by the target
			Workflow Engine or by the
			transport mechanism

8.7.5 Source Workflow Engine Response Audit Data

Data Elements	M/O	Data Type	Description
Prefix	M		CWAD Prefix Information
MessageID	0	WMAObjectID	Message ID associated with event.
SourceInitialProcessInstanceI D	М	WMAObjectID	Initial process instance id of source Workflow Engine
SourceCurrentProcessInstance ID	М	WMAObjectID	Current process instance ID of the source Workflow Engine.
SourceActivityInstanceID	М	WMAObjectID	Activity instance ID of the source Workflow Engine.
SourceTimestamp	М	WMTDateTime	Timestamp of source Workflow Engine Event.
SourceNodeID	М	WMTResourceID	Node ID of the source Workflow Engine.
SourceUserID	0	WMTResourceID	User ID associated with the remote Workflow Engine request.
SourceRoleID	0	WMTResourceID	User ID associated with the remote Workflow Engine request.
SourceProcessDefinitionID	0	WMTObjectID	As supplied by source Workflow Engine
SourceProcessDefinitionBusin essName	0	WMTObjectName	null Business name of remote Workflow Engine process that initiated the process instance
SourceActivityDefinitionBusin essName	0	WMTObjectName	Business name of the remote Workflow Engine activity spawnning the request.
AttributeName	0	WMTAttributeName	Name of attribute requested
AttributeType	0	WMTAttributeType	Type of attribute requested
AttributeLength	0	WMTAttributeLength	Length of requested attribute
AttributeValue	0	WMTAttributeValue	value

PreviousAttributeLength	0	WMTAttributeLength	Previous Length of attribute
PreviousAttributeValue	0	WMTAttributeValue	Previous value
Extension Number	М	WMTInt16	'1'
Extension Type	М	WMTText	'4MIME'
SourceConverstaion ID	М	WMTText	As supplied by the source
			Workflow Engine or by the
			transport mechanism.
TargetConversation ID	Μ	WMTText	As supplied by the target
			Workflow Engine or by the
			transport mechanism

8.7.6 Target Workflow Engine Response Audit Data

Data Elements	M/O	Data Type	Description
Prefix	Μ		CWAD Prefix Information
MessageID	0	WMAObjectID	Message ID associated with event.
SourceActivityDefinitionBusin essName	0	WMAObjectName	Business name of the current activity on the source engine originating the request to change the process state
TargetProcessDefinitionID	0	WMAObjectID	As supplied to the target Workflow Engine
TargetProcessInstanceID	0	WMAObjectID	Process instance on target Workflow Engine.
TargetProcessDefinitionBusine ssName	0	WMTObjectName	null as supplied by target Workflow Engine.
TargetNodeID	М	WMTResourceID	Node ID of target Workflow Engine accepting change state request.
TargetUserID	0	WMTResourceID	null ID of remote user currently performing the process.
TargetRoleID	0	WMTResourceID	null ID of remote role currently performing the process.
AttributeName	0	WMTAttributeName	Name of attribute requested
AttributeType	0	WMTAttributeType	Type of attribute requested
AttributeLength	0	WMTAttributeLength	Length of requested attribute
AttributeValue	0	WMTAttributeValue	value
PreviousAttributeLength	0	WMTAttributeLength	Previous Length of attribute
PreviousAttributeValue	0	WMTAttributeValue	Previous value
Extension Number	Μ	WMTInt16	'1'
Extension Type	М	WMTText	'4MIME'
SourceConverstaion ID	М	WMTText	As supplied by the source Workflow Engine or by the transport mechanism.
TargetConversation ID	М	WMTText	As supplied by the target Workflow Engine or by the

				transport mechanism
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8.8 Process Instance State Changed

This results in 3 audit data records being written, 2 on the source machine and 1 on the target machine. The audit data cooresponds to the notifications and the event. The Event Code in the Prefix varies with each audit data record:

- Actual Event 'WMChangedProcessInstanceState'
- Source Notification 'WMSentChangedProcessInstanceState'
- Target Notification 'WMReceivedChangedProcessInstanceState'

8.8.1 Notifying Workflow Engine Actual Event Audit Data

Data Elements	M/O	Data Type	Description
Prefix	Μ		CWAD Prefix Information
MessageID	0	WMAObjectID	Message ID associated with
			event.
PreviousProcessState	Μ	WMTProcInstState	Previous process state
New ProcessState	М	WMTProcInstState	New process state
Extension Number	Μ	WMTInt16	'1'
Extension Type	М	WMTText	'4MIME'
SourceConverstaion ID	Μ	WMTText	As supplied by the source
			Workflow Engine or by the
			transport mechanism.
TargetConversation ID	Μ	WMTText	As supplied by the target
-			Workflow Engine or by the
			transport mechanism

8.8.2 Notifying Workflow Engine Notification Audit Data

Data Elements	M/O	Data Type	Description
Prefix	Μ		CWAD Prefix Information
MessageID	0	WMAObjectID	Message ID associated with
			event.
SourceActivityDefinitionBusin	0	WMAObjectName	Business name of the current
essName			activity on the source engine
			originating the request to change
			the process state
TargetProcessDefinitionID	0	WMAObjectID	As supplied to the target
			Workflow Engine
TargetProcessInstanceID	0	WMAObjectID	Process instance on target
			Workflow Engine.

TargetNodeID	М	WMTResourceID	Node ID of target Workflow
			Engine accepting change state
			request.
New ProcessState	Μ	WMTProcInstState	New process state
Extension Number	М	WMTInt16	'1'
Extension Type	М	WMTText	'4MIME'
SourceConverstaion ID	М	WMTText	As supplied by the source
			Workflow Engine or by the
			transport mechanism.
TargetConversation ID	М	WMTText	As supplied by the target
			Workflow Engine or by the
			transport mechanism

8.8.3 Target Workflow Engine Audit Data

Data Elements	M/O	Data Type	Description
Prefix	Μ		CWAD Prefix Information
MessageID	0	WMAObjectID	Message ID associated with
			event.
SourceActivityDefinitionBusin	0	WMTObjectName	Business name of the remote
essName			Workflow Engine activity
			spawnning the request.
SourceProcessInstanceID	Μ	WMAObjectID	Process instance id of source
			Workflow Engine
SourceActivityInstanceID	Μ	WMAObjectID	Activity instance ID of the
			source Workflow Engine.
SourceNodeID	Μ	WMTResourceID	Node ID of the source Workflow
			Engine.
New ProcessState	Μ	WMTProcInstState	New process state
Extension Number	Μ	WMTInt16	'1'
Extension Type	Μ	WMTText	'4MIME'
SourceConverstaion ID	Μ	WMTText	As supplied by the source
			Workflow Engine or by the
			transport mechanism.
TargetConversation ID	Μ	WMTText	As supplied by the target
			Workflow Engine or by the
			transport mechanism

8.9 Process Instance Attribute Changed

This results in 3 audit data records being written, 2 on the source machine and 1 on the target machine. The audit data cooresponds to the notifications and the event. The Event Code in the Prefix varies with each audit data record:

- Actual Event 'WMAssignedProcessInstanceAttribute'
- Source Notification 'WMSentChangedProcessInstanceAttribute'
- Target Notification 'WMReceivedChangedProcessInstanceAttribute'

8.9.1 Notifying Workflow Engine Actual Event Audit Data

Data Elements	M/O	Data Type	Description
Prefix	М		CWAD Prefix Information
MessageID	0	WMAObjectID	Message ID associated with event.
AttributeName	Μ	WMTAttributeName	Name of attribute requested
AttributeType	Μ	WMTAttributeType	Type of attribute requested
AttributeLength	М	WMTAttributeLength	Length of requested attribute
AttributeValue	М	WMTAttributeValue	value
PreviousAttributeLength	М	WMTAttributeLength	Previous Length of attribute
PreviousAttributeValue	М	WMTAttributeValue	Previous value
Extension Number	М	WMTInt16	'1'
Extension Type	М	WMTText	'4MIME'
SourceConverstaion ID	М	WMTText	As supplied by the source Workflow Engine or by the transport mechanism.
TargetConversation ID	М	WMTText	As supplied by the target Workflow Engine or by the transport mechanism

8.9.2 Notifying Workflow Engine Notification Audit Data

Data Elements	M/O	Data Type	Description
Prefix	Μ		CWAD Prefix Information
MessageID	0	WMAObjectID	Message ID associated with event.
SourceActivityDefinitionBusin essName	0	WMAObjectName	Business name of the current activity on the source engine originating the request to change the process state
TargetProcessDefinitionID	0	WMAObjectID	As supplied to the target Workflow Engine
TargetProcessInstanceID	0	WMAObjectID	Process instance on target Workflow Engine.
TargetNodeID	М	WMTResourceID	Node ID of target Workflow Engine accepting change state request.
AttributeName	0	WMTAttributeName	Name of attribute requested

AttributeType	0	WMTAttributeType	Type of attribute requested
AttributeLength	0	WMTAttributeLength	Length of requested attribute
AttributeValue	0	WMTAttributeValue	New value
Extension Number	М	WMTInt16	'1'
Extension Type	М	WMTText	'4MIME'
SourceConverstaion ID	М	WMTText	As supplied by the source
			Workflow Engine or by the
			transport mechanism.
TargetConversation ID	Μ	WMTText	As supplied by the target
			Workflow Engine or by the
			transport mechanism

8.9.3 Target Workflow Engine Audit Data

Data Elements	M/O	Data Type	Description
Prefix	М		CWAD Prefix Information
MessageID	0	WMAObjectID	Message ID associated with
			event.
SourceActivityDefinitionBusin	0	WMTObjectName	Business name of the remote
essName			Workflow Engine activity
			spawnning the request.
SourceProcessInstanceID	Μ	WMAObjectID	Process instance id of source
			Workflow Engine
SourceActivityInstanceID	Μ	WMAObjectID	Activity instance ID of the
			source Workflow Engine.
SourceNodeID	Μ	WMTResourceID	Node ID of the source Workflow
			Engine.
AttributeName	0	WMTAttributeName	Name of attribute requested
AttributeType	0	WMTAttributeType	Type of attribute requested
AttributeLength	0	WMTAttributeLength	Length of requested attribute
AttributeValue	0	WMTAttributeValue	New value
Extension Number	Μ	WMTInt16	'1'
Extension Type	Μ	WMTText	'4MIME'
SourceConverstaion ID	Μ	WMTText	As supplied by the source
			Workflow Engine or by the
			transport mechanism.
TargetConversation ID	Μ	WMTText	As supplied by the target
			Workflow Engine or by the
			transport mechanism

8.10 Session Management Audit Data

The Session Management information is written when a session is established between two WFM Engines. Both WFM Engines need to record this information at the time of session connection.

Data Elements	M /	Data Type	Description
	0		
Prefix	М		CWAD Prefix Information
MessageID	0	WMAObjectID	Message ID associated with
			event.
CorrespondentDomainID	Μ	WMAResourceID	DomainID of accepting the
			session request.
CorrespondentNodeID	М	WMAResourceID	Node ID of accepting the session
			request.
Suffix	Μ		CWAD Suffix Information

Events Recorded:

Event Description	When Created
WMStartedSession	(4M*) Start a Session with a remote WFM Engine
WMStoppedSession	(4M*) Stop a session with a remote WFM Engine.

* NOTE: 4M refers to the Interoperability interface MIME binding.

9. Process Definition Audit Information

9.1 Change Process Definition State Audit Data

When the state of the process definition is changed, the information is written to the audit data. A state change may occur as the result of a State Change API command or as the result of internal WFM Engine operations. This would correspond to the WMChangeProcessDefinitionState, which allows process definitions to be changed temporarily to a specific states, such as *disabled* or *enabled*.

Name	M/O	Data Type	Description
Prefix	М		CWAD Prefix Information
ProcessDefinitionID	М	WMAObjectID	Unique ID of the process definition
NewProcessDefinitionState	М	WMAObjectState	New state for the process definition
PreviousProcessDefinitionState	М	WMAObjectState	Previous state for process definition
Suffix	0		CWAD Suffix Information

Events Recorded:

Event Description	When Created
WMChangedProcessDefinitionState	(2) State of Process definition has been changed.

10. Discretionary Audit Information

Discretionary Audit Data information is information that are agreed upon by two or more vendors to be recorded, yet are not required for WfMC conformance.

We will describe the data elements for the optional data. However, the items that might be considered are return codes, error messages, work item priorities, route assigned and taken, security, code page, and expected duration.

Data Elements	M/O	Data Types	Description
Prefix Information	М		CWAD Prefix
Suffix Information	М		CWAD Suffix

Notes: Future expansion

<u>11. Private Audit Information</u>

Private Audit Data information is data which is specific or private to a particular vendor's workflow product. They are not defined by the Coalition, only the format will be defined. Suggested data might include error messages, program specific data pointers...any data that is necessary for derived data for user, transaction, cost, trend, critical path, and/or optimization analysis.

Data Elements	M/O	Data Types	Description
Prefix Information	М		CWAD Prefix
Suffix Information	М		CWAD Suffix

Notes: Future Expansion

12. Appendix A: Event Codes

The following are the event codes and when they are created. The naming of the events recorded consist of verb-noun-verb-noun syntax. For example, when a request is sent start a process instance on a remote workflow engine, the event is "WMSentRequestStartProcessInstance." For those functions that have events recorded, the events are listed. Included are reference numbers, corresponding to the interfaces where the function is described, such as (2) = WAPI interface, (4) = Interoperability interface. Future events that have been identified, but are not part of the current specifications, are included in this specification and have no reference number ().

12.1 Process Instance Audit Information

Create/Start Process/Subprocess Instance Audit Data

WMCreatedProcessInstance	(2,4) Process instance is created.
WMStartedProcessInstance	(2,4) Process instance is started.

Change Process/Subprocess Instance State Audit Data

WMChangedProcessInstanceState WMCompletedProcessInstance WMTerminatedProcessInstance WMAbortedProcessInstance	 (2,4) Process state has changed by API or internal event. (2,4) Process instance has completed. (2,4) Process instance has been terminated. (2,4) Process instance has been aborted.
WMWaitingOnEvent WMEventOccurred WMStartedSubprocess WMCompletedSubprocess	 () Process is waiting on event(s) to occur. () Event(s) on which a process was waiting has occurred. () ()

Assign Process Instance Attributes Audit Data

WMAssignedProcessInstanceAttributes (2,4) Process Instance Attributes have been changed.

12.2 Activity Instance Audit Information

Change Activity Instance State Audit Data

WMChangedActivityInstanceState	(2) Activity state has changed by API or internal event. This is also used to record the initial state of the activity instance.
WMCompletedActivityInstance	(2) Activity instance has completed.
WMTerminatedActivityInstance	(2) Activity instance has been terminated.
WMAbortedActivityInstance	(2) Activity instance has been aborted.
WMWaitingOnEvent	() Activity is waiting on event(s) to occur.
WMEventOccurred	() Event(s) on which an activity was waiting has occurred.

Assign Activity Instance Attributes Audit Data

WMAssignActivityInstanceAttributes (2) Activity Instance Attributes have been changed.		
$\sqrt{1}$	W/M Assign Activity Instance Attributes	(2) Activity Instance Attributes have been changed
	www.wiassignacuvitymstanceAurioutes	(2) Activity instance Attributes have been changed.

12.3 Workitem Audit Information

Change Workitem State Audit Data

WMStartedWorkItem	(2) Work item has been started.
WMCompletedWorkItem	() Work item has been completed.
WMRejectedWorkItem	(2) Work item has been rejected.
WMSelectedWorkItem	(2) User has selected work item off worklist.
	This includes get, select, reserve, checkout.
WMChangedWorkItemState	(2) Work item state has been changed by API or internal event. This is also used to record the initial state of the work item.

Assign/Reassign Workitem/Worklist Audit Data

WMAssignedWorkItem	(2) Work item is placed on user's worklist
WMReassignedWorkItem	(2) Work item has been reassigned to one or
	more users.
WMReassignedWorklist	(2) Entire worklist of a user has been
	reassigned to one or more users.

12.4 Remote Operation Audit Information

Remote Process Operation Audit Data

WMStartedProcessInstance WMCreatedProcessInstance WMAbortedProcessInstance WMTerminatedProcessInstance WMChangedProcessInstanceState WMAssignedProcessInstanceAttribute

WMCompletedProcessInstance

Link to Remote Subprocess Audit Data

WMSentRequestStartProcessInstance

WMSentRequestAbortProcessInstance

WMSentRequestTerminateProcessInstance

WMSentRequestChangeProcessInstanceAttribute(4) Request sent to change process instance on

WMSentRequestGetProcessInstanceAttribute

WMSentRequestChangeProcessInstanceState

Responses

WMSentStartedProcessInstance

- $WMS ent Changed Process Instance \\ Attribute$
- WMSentRetrievedProcessInstanceAttribute
- WMSentAbortedProcessInstance
- WMSentTerminatedProcessInstance
- WMSentChangedProcessInstanceState
- WMSentCompletedProcessInstance

- (4) Process Instance has been started
- (4) Process Instance has been created
- (4) Process Instance has been aborted
- (4) Process Instance has been terminated
- (4) Process Instance State has been changed
- (4) Process Instance Attributes values have been assigned/changed.
- (4) Process Instance has completed.
- (4) Request sent to start a process instance on a remote WFM Engine
- (4) Request sent to abort a process instance on remote WFM Engine.
- (4) Request sent to terminate a process instance on remote WFM Engine.
- (4) Request sent to change process instance on remote WFM Engine.
- (4) Request sent to get process instance attribute on remote WFM Engine.
- (4) Request sent to change process instance state on remote WFM engine.
- (4) Response sent to remote WFM Engine when process instance has started.
- (4) Response sent to remote WFM Engine when process instance attribute has been changed.
- (4) Response sent to remote WFM Engine when process instance attribute has been retrieved.
- (4) Response sent to remote WFM Engine when process instance has been aborted.
- (4) Response sent to remote WFM Engine when process instance has been terminated.
- (4) Response sent to remote WFM Engine when process instance state has changed.
- (4) Response sent to remote WFM Engine when process instance has completed.

Link From Remote Subprocess Audit Data

WMReceivedRequestStartProcessInstance	(4) Received request from remote WFM Engine to start process instance.
WMReceivedRequestAbortProcessInstance	(4) Request received from remote WFM Engine to abort process instance.
WMReceivedRequestTerminateProcessInstance	(4) Request received from remote WFM Engine to terminate process instance.
WMReceivedRequestChangeProcessInstanceStat	e (4) Request received from remote WFM Engine to change process instance state.
WMReceivedRequestChangeProcessInstanceAttr	tibute (4) Request received from remote WFM Engine to change process instance attribute.
WMReceivedRequestGetProcessInstanceAttribut	to get process instance attribute.
Responses	
WMReceivedStartedProcessInstance	(4) Response received from remote WFM Engine when process instance has started.
WMReceivedChangedProcessInstanceAttribute	(4) Response received from remoteWFM Engine when process instance attribute has been changed.
WMReceivedRetrievedProcessInstanceAttribute	(4) Response received from remote WFM Engine when process instance attribute has been retrieved.
WMReceivedAbortedProcessInstance	(4) Response received from remote WFM Engine when process instance has been aborted.
WMReceivedTerminatedProcessInstance	(4) Response received from remote WFM Engine when process instance has been terminated.
WMReceivedChangedProcessInstanceState	(4) Response received from remoteWFM Engine when process instance state has changed.
WMReceivedCompletedProcessInstance	(4) Response received from remoteWFM Engine when process instance has completed.

Session Management Audit Data

WMStartedSession	$(4M^*)$ Start a Session with a remote WFM Engine
WMStoppedSession	$(4M^\ast$) Stop a session with a remote WFM Engine.

* NOTE: 4M refers to the Interoperability interface MIME binding.

12.5 Process Definition Audit Information

Process Definition State Change Audit Data

WMChangedProcessDefinitionState (2) State of Process definition has been changed.