

# Change Log for OSS IP Billing API Version 1.1

## OSS through Java™ Initiative

This document summarizes the changes to the OSS IP Billing API specification Version 1.1. The main purpose of this version was to add the XML interface to the specification. However, since a maintenance release to the specification was taking place, additional modifications to the previously existing Java Value Type interface were also incorporated.

There are two lists of changes:

- "proposed" changes are those modifications that are included in OSS IP Billing API version 1.1.
- "deferred" changes are those modifications that are not included in OSS IP Billing API version 1.1, whether for time reasons or because it was considered that the changes were too significant.

The detailed description of changes in this document is principally of interest to people implementing the OSS IP Billing API specification.

### SUMMARY OF PROPOSED CHANGES

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- A.1. Added XML Integration Profile
- A.2. Relocation of the *activity* package
- A.3. Correction of *QueryByUsageRecFilter* class description, per bug ID 4925239
- A.4. Complete and correct Javadoc description for classes
- A.5. Remove hard-coded class names in attribute assignment
- A.6. Deprecated *ActivityState*, replacing it with *ControlState* and *ExecutionStatus*
- A.7. Remove extra exception declaration for *JVTProducerSession:getProducersByKeys()*
- A.8. Corrected the spelling of the argument to *QueryProducersByMediationCapability:setJoinOperand()*

## PROPOSED CHANGES

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### A.1. Added XML Integration Profile

Added the XML Integration Profile to the specification. This interface is defined by the *XmlIPBillingSchema.xsd* XML schema. This new interface does not affect the existing Java Value Type interface.

### A.2. Relocation of the *activity* package

As a precursor to moving the classes in the *activity* package to the JSR 144 specification, the location of the *activity* package was moved from *javax.oss.ipb* to *javax.oss.cfi*. To support this, the following classes were updated:

```
javax.oss.cfi.activity.ActivityCapability
javax.oss.cfi.activity.ActivityControlException
javax.oss.cfi.activity.ActivityControlParams
javax.oss.cfi.activity.ActivityController
javax.oss.cfi.activity.ActivityCreationEvent
javax.oss.cfi.activity.ActivityCreationEventPropertyDescriptor
javax.oss.cfi.activity.ActivityEvent
javax.oss.cfi.activity.ActivityEventPropertyDescriptor
javax.oss.cfi.activity.ActivityExecParams
javax.oss.cfi.activity.ActivityKey
javax.oss.cfi.activity.ActivityKeyResult
javax.oss.cfi.activity.ActivityKeyResultIterator
javax.oss.cfi.activity.ActivityPrimaryKey
javax.oss.cfi.activity.ActivityRemovalEvent
javax.oss.cfi.activity.ActivityRemovalEventPropertyDescriptor
javax.oss.cfi.activity.ActivityReportAvailableEvent
javax.oss.cfi.activity.ActivityReportAvailableEventPropertyDescriptor
javax.oss.cfi.activity.ActivityReportDataEvent
javax.oss.cfi.activity.ActivityReportDataEventPropertyDescriptor
javax.oss.cfi.activity.ActivityReportParams
javax.oss.cfi.activity.ActivityResumeEvent
javax.oss.cfi.activity.ActivityResumeEventPropertyDescriptor
javax.oss.cfi.activity.ActivityState
javax.oss.cfi.activity.ActivitySuspendEvent
javax.oss.cfi.activity.ActivitySuspendEventPropertyDescriptor
javax.oss.cfi.activity.ActivityValue
javax.oss.cfi.activity.ActivityValueIterator
javax.oss.cfi.activity.AttributeDescriptor
javax.oss.cfi.activity.DailyScheduleInfo
javax.oss.cfi.activity.QueryActivityReportData
javax.oss.cfi.activity.QueryActivityValue
```

*javax.oss.cfi.activity.RecordDescriptor*  
*javax.oss.cfi.activity.ReportFormat*  
*javax.oss.cfi.activity.ReportInfo*  
*javax.oss.cfi.activity.ReportInfoIterator*  
*javax.oss.cfi.activity.ReportIterator*  
*javax.oss.cfi.activity.ReportMode*  
*javax.oss.cfi.activity.ReportRecord*  
*javax.oss.cfi.activity.Schedule*  
*javax.oss.cfi.activity.SubscriptionFilter*  
*javax.oss.cfi.activity.SubscriptionParams*  
*javax.oss.cfi.activity.WeeklyScheduleInfo*  
*javax.oss.ipb.event.UsageDataAvailableEvent*  
*javax.oss.ipb.event.UsageDataAvailableEventPropertyDescriptor*  
*javax.oss.ipb.producer.JVTProducerSession*  
*javax.oss.ipb.producer.ProducerKey*  
*javax.oss.ipb.producer.ProducerKeyResult*  
*javax.oss.ipb.producer.ProducerKeyResultIterator*  
*javax.oss.ipb.producer.ProducerPrimaryKey*  
*javax.oss.ipb.producer.ProducerValue*  
*javax.oss.ipb.producer.ProducerValueIterator*  
*javax.oss.ipb.query.QueryByUsageRecFilter*  
*javax.oss.ipb.transfer.TransferStatusValue*  
*javax.oss.ipb.type.UsageRecValue*  
*javax.oss.ipb.type.UsageRecValueIterator*

#### A.3. Correction of *QueryByUsageRecFilter* class description, per bug ID 4925239

The comment for the class *QueryByUsageRecFilter* incorrectly stated that multiple *UsageRecFilterValues* could be specified. Corrected the comment to state that a single *UsageRecFilterValue* can be specified.

#### A.4. Complete and correct Javadoc description for classes

Some of the classes had incomplete or incorrect Javadoc descriptions or tags for the method arguments, return value, and exceptions. The following classes were updated to complete their comments and remove references to JSR 90:

*javax.oss.cfi.activity.ActivityCapability*  
*javax.oss.cfi.activity.ActivityControlParams*  
*javax.oss.cfi.activity.ActivityController*  
*javax.oss.cfi.activity.ActivityCreationEventPropertyDescriptor*  
*javax.oss.cfi.activity.ActivityEvent*  
*javax.oss.cfi.activity.ActivityEventPropertyDescriptor*  
*javax.oss.cfi.activity.ActivityExecParams*  
*javax.oss.cfi.activity.ActivityKey*  
*javax.oss.cfi.activity.ActivityKeyResult*  
*javax.oss.cfi.activity.ActivityKeyResultIterator*

*javax.oss.cfi.activity.ActivityPrimaryKey*  
*javax.oss.cfi.activity.ActivityRemovalEvent*  
*javax.oss.cfi.activity.ActivityRemovalEventPropertyDescriptor*  
*javax.oss.cfi.activity.ActivityReportAvailableEvent*  
*javax.oss.cfi.activity.ActivityReportAvailableEventPropertyDescriptor*  
*javax.oss.cfi.activity.ActivityReportDataEvent*  
*javax.oss.cfi.activity.ActivityRemovalEventPropertyDescriptor*  
*javax.oss.cfi.activity.ActivityReportAvailableEvent*  
*javax.oss.cfi.activity.ActivityReportAvailableEventPropertyDescriptor*  
*javax.oss.cfi.activity.ActivityReportDataEvent*  
*javax.oss.cfi.activity.ActivityReportDataEventPropertyDescriptor*  
*javax.oss.cfi.activity.ActivityReportParams*  
*javax.oss.cfi.activity.ActivityResumeEvent*  
*javax.oss.cfi.activity.ActivityResumeEventPropertyDescriptor*  
*javax.oss.cfi.activity.ActivityState*  
*javax.oss.cfi.activity.ActivitySuspendEvent*  
*javax.oss.cfi.activity.ActivitySuspendEventPropertyDescriptor*  
*javax.oss.cfi.activity.ActivityValue*  
*javax.oss.cfi.activity.ActivityValueIterator*  
*javax.oss.cfi.activity.AttributeDescriptor*  
*javax.oss.cfi.activity.DailyScheduleInfo*  
*javax.oss.cfi.activity.QueryActivityReportData*  
*javax.oss.cfi.activity.QueryActivityValue*  
*javax.oss.cfi.activity.RecordDescriptor*  
*javax.oss.cfi.activity.ReportFormat*  
*javax.oss.cfi.activity.ReportInfo*  
*javax.oss.cfi.activity.ReportInfoIterator*  
*javax.oss.cfi.activity.ReportIterator*  
*javax.oss.cfi.activity.ReportMode*  
*javax.oss.cfi.activity.ReportRecord*  
*javax.oss.cfi.activity.Schedule*  
*javax.oss.cfi.activity.SubscriptionFilter*  
*javax.oss.cfi.activity.SubscriptionParams*  
*javax.oss.cfi.activity.WeeklyScheduleInfo*  
*javax.oss.ipb.event.MediationCapabilityChangeEvent*  
*javax.oss.ipb.event.MediationCapabilityChangeEventDecoder*  
*javax.oss.ipb.event.MediationCapabilityChangeEventPropertyDescriptor*  
*javax.oss.ipb.event.UsageDataAvailableEvent*  
*javax.oss.ipb.event.UsageDataAvailableEventPropertyDescriptor*  
*javax.oss.ipb.exception.IPBAPIException.java*  
*javax.oss.ipb.exception.IPBDDataFormatException*  
*javax.oss.ipb.producer.JVTProducerSession*  
*javax.oss.ipb.producer.MediationCapability*  
*javax.oss.ipb.producer.ProducerKey*  
*javax.oss.ipb.producer.ProducerKeyResult*  
*javax.oss.ipb.producer.ProducerPrimaryKey*  
*javax.oss.ipb.producer.ProducerValue*

*javax.oss.ipb.producer.ProducerValueIterator*  
*javax.oss.ipb.query.QueryByUsageRecFilter*  
*javax.oss.ipb.query.QueryProducersByMediationCapability*  
*javax.oss.ipb.query.QueryTransferStatusValue*  
*javax.oss.ipb.transfer.TransferStatusKey*  
*javax.oss.ipb.transfer.TransferStatusPrimaryKey*  
*javax.oss.ipb.transfer.TransferStatusValue*  
*javax.oss.ipb.transfer.TransferStatusValueIterator*  
*javax.oss.ipb.type.UsageDataSchema*  
*javax.oss.ipb.type.UsageRecFilterValue*  
*javax.oss.ipb.type.UsageRecValue*  
*javax.oss.ipb.type.UsageRecValueIterator*

#### A.5. Remove hard-coded class names in attribute assignment

Some of the Event Property Descriptor classes were using hard-coded strings to set the names of the associated *Event* classes instead of using the *class.getName()* method. The following classes were changed to initialize their **EVENT\_TYPE** attribute using the *class.getName()* method:

*javax.oss.ipb.event.MediationCapabilityChangeEventPropertyDescriptor*  
*javax.oss.ipb.event.UsageDataAvailableEventPropertyDescriptor*

#### A.6. Deprecated *ActivityState*, replacing it with *ControlState* and *ExecutionStatus*

The interface *javax.oss.cfi.activity.ActivityState* was being used to represent an enumeration of both the control state and the execution status of an Activity. Having a mixture of different enumerations in a single interface was confusing and conflicts with the standard approach to representing enumerations in Java, so the interface *javax.oss.cfi.activity.ActivityState* has been deprecated and replaced with the following:

*javax.oss.cfi.activity.ControlState*: represents only the control state values  
*javax.oss.cfi.activity.ExecutionStatus*: represents only the execution status values

#### A.7. Remove extra exception declaration for *JVTProducerSession:getProducersByKeys()*

The method declaration for *JVTProducerSession:getProducersByKeys()* incorrectly stated that it throws the exception *FinderException* twice. The extra *FinderException* was removed.

#### A.8. Corrected the spelling of the argument to *QueryProducersByMediationCapability:setJoinOperand()*

The method declaration for *QueryProducersByMediationCapability.setJoinOperand()* named the argument *booleanOperaandType*. This misspelling was changed to *booleanOperandType*

## SUMMARY OF DEFERRED CHANGES

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D.1. Move the activity package to the JSR 144 specification

## DEFERRED CHANGES

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D.1. Move the *activity* package to the JSR 144 specification

A future release of the OSS IP Billing API will be coordinated with a release of JSR 144 to move the *activity* package from the OSS IP Billing API to JSR 144.