## Release Date

October 2017

## Personnel

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| --- | --- |
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## Release Overview

The Integrated Billing (IB) package is used to track bills generated on behalf of patients referred to as third party bills. The VistA Bill/Claims (399) file contains records of each bill created and the Accounts Receivable (430) file is use to record processing actions for the bill. In CDW, the Bill/Claims (399) file data is available in the IB.BillClaim view. The IB.BillClaimDiagnosis, IB.BillClaimOutpatient VisitDate, IB.BillClaimProcedure, IB.BillClaimCPTModifier, IB.BillClaimProsthetics, IB.BillClaimProvider, IB.BillClaimRevenueCode, and IB.BillClaimRxOutpat provide additional details about a third party bill in the IB.BillClaim view. The EventDateTime column in the IB.BillClaim view is sourced from the Event Date (.03) field and is used for a cutoff date for the records. The supporting views have been structured to inherit the EventDateTime from the IB.BillClaim view to create a consistent cutoff date for all the billing views. Billing records are available from 10/1/1999 to present.

## Schema & Security

List of the database schemas included in the data domain:

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| **Fact**: IB.xxx | CDW\_Full access required |
| **Dim**: Dim.ARxxx | CDW\_Full access required |
| **Dim**: Dim.IBxxx | CDW\_Full access required |
| Fact: SPatient.BillClaimNode | CDW\_SPatient access required |
| Fact: SStaff.IBNonVAProvider | CDW\_SStaff access required |

## Details

List of the views that comprise this version of the data domain:

1. **IB.BillClaim** – The Bill/Claim (399) file has be split into three views: IB.BillClaim, IB.BillClaimCare, and IB.BillClaimInsurance. The IB.BillClaim view contains information about the bill itself such as if the bill was auto-generated, auto-processed, copied, cloned, cancelled, and the type of bill. The IB.BillClaimCare view provides information about the care that was billed such as the bill charges, offset amounts, initial treatment date, patient unable to work timeframes, inpatient/PTF information, post-op care, and ambulance information. The IB.BillClaimInsurance view displays records about the bills insurance to help identify if the bill has been submitted to the primary, secondary, or tertiary insurance company. If the bill is for the secondary or tertiary insurance, the prior payments are available in the IB.BillClaimInsurance view. The view also has days covered, insurance policy information, provider IDs, MRA (Medicare) claim information, bill authorization, bill transmission, casualty and disability information. The **EventDateTime** column is used for the 10/1/1999 date cutoff for IB.BillClaimxx views.
   1. IB.BillClaimCPTModifier - The view displays CPT modifier information for procedure codes from the Bill Claim parent record. The EventDateTime column is used for the date cutoff and the view displays bills from 10/1/1999 to present.
   2. IB.BillClaimDiagnosis - The view displays diagnosis related to the Bill Claim parent record. The EventDateTime column is used for the date cutoff and the view displays bills from 10/1/1999 to present.
   3. IB.BillClaimOutpatientVisitDate - The view displays the visit dates used for the Bill Claim parent record. It does not have a pointer to the Outpat.Visit view. The EventDateTime column is used for the date cutoff and the view displays bills from 10/1/1999 to present.
   4. IB.BillClaimProcedure - The view displays procedure information from the Bill Claim parent record. The view does have a pointer to the Outpat.Visit view. The EventDateTime column is used for the date cutoff and the view displays bills from 10/1/1999 to present.
   5. IB.BillClaimProsthetics - The view displays prosthetic information from the Bill Claim parent record. The EventDateTime column is used for the date cutoff and the view displays bills from 10/1/1999 to present.
   6. IB.BillClaimProvider - The view displays provider information from the Bill Claim parent record. The EventDateTime column is used for the date cutoff and the view displays bills from 10/1/1999 to present.
      1. SStaff.IBNonVAProvider - This view contains data for non-VA facilities that provide services for VA patients who have reimbursable insurance for these services. VA pays for these services and in turn submits the charges to the insurance company for reimbursement.
   7. IB.BillClaimRevenueCode - The view displays revenue code information on the Bill Claim parent record. The EventDateTime column is used for the date cutoff and the view displays bills from 10/1/1999 to present.
      1. Dim.IBRevenueCode - This view contains all of the Revenue Codes which may be used on Third Party claim forms.
   8. IB.BillClaimRxOutpat - The view displays prescription information for the Bill Claim parent record. The EventDateTime column is used for the date cutoff and the view displays bills from 10/1/1999 to present.
   9. SPatient.BillClaimNode - The view contains fields from VistA used to build BillClaim nodes for HL7 transmission. The view contains fields that are sensitive. The EventDateTime column is also used for the cutoff date.
   10. Dim.InsuranceCompany - This view contains the names and addresses of insurance companies.
       1. Dim.IBInsurancePayer – The view contains payers which can be communicated with electronically for insurance identification and verification.
       2. Dim.IBProviderIDType – The view displays the type of provider identification types that can be used for electronic billing.
       3. Dim.PlanCoverageLimitation - This view contains the detail of plan and effective date of the categories that may be restricted for insurance coverage.
          1. Dim.PlanLimitationCategory - This view displays used by the site to determine if third party billing is valid.
   11. Dim.AmbulanceReasonCode - This view contains Ambulance Transport Reason Codes used to identify why ambulance transportation was required.
   12. Dim.IBAttachmentReportType – The view displays supplemental information to support health care claims.
   13. Dim.IBBillFormType – The view displays types of billing forms (i.e. HCFA and UB).
   14. Dim.IBError - This view contains errors for billing functions.
       1. Dim.IBBillingAlertDefinition - This view contains data that sites use to generate alerts such as recipients and the contents of the alerts.
   15. Dim.IBPlaceOfService - This view contains the Place of Service codes that may be associated with a procedure and used on the HCFA billing form.
   16. Dim.IBRateType – This view contains the billing rate types.
   17. Dim.IBTypeOfService - This view contains the Types of Services that may be associated with a procedure and used on the HCFA billing form.
2. **IB.AccountsReceivable** – The Accounts Receivable package allows a facility to manage debt collection processes. A bill may be generated from either the VistA AR billing module or the Integrated Billing package. The IB.AccountsReceivable view displays information about the parent accounts receivable record. The cutoff field is the BillPreparedDateTime and the view has records from 10/1/1999 to present.
   1. IB.AccountsReceivableDescription - This is a sub-file from the parent IB.AccountsReceivable (file 430) view and displays descriptions for the parent account receivable record. The cutoff date column BillPreparedDateTime is inherited from the parent IB.AccountsReceivable view.
   2. IB.AccountsReceivableFiscalYear - This is a sub-file from the parent IB.AccountsReceivable (file 430) view and displays fiscal year information for the parent account receivable record. The cutoff date column BilledPreparedDateTime is inherited from the parent IB.AccountsReceivable view.
   3. IB.AccountsReceivableRepayDate - This is a sub-file for the parent IB.AccountsReceivable (file 430) view and displays repayment date information for the parent accounts receivable record. The cutoff date column BillPreparedDateTime is inherited from the parent IB.AccountsReceivable view.
   4. IB.ARTransaction – The IB.ARTransaction view displays transactions related to the parent account receivable record. The TransactionDateTime column is used for the date cutoff and the view provides transaction information from 10/1/1999 to present.
      1. IB.ARTransactionDescription - The view is a sub-file of the ARTransaction view (file 433) and displays description information about the transaction. The cutoff date is the TransactionDateTime from the parent view.
      2. IB.ARTransactionFiscalYear - This is a sub-file to the parent IB.ARTransaction (file 433) view and displays fiscal year information for the transaction. The cutoff date column TransactionDateTime is inherited from the parent IB.ARTransaction view.
   5. IB.AccountsReceivableTCSP – The view is a one-to-one relationship to the main IB.AccountsReceivable view and provides new VistA fields for the Treasury Cross-Servicing Program.
   6. Dim.ARDebtor - Debtor information is stored in the AR Debtor (340) file in VistA and displayed in the Dim.ARDebtor view in CDW. Typically a debtor, such as a patient, will have a single AR Debtor record. The ARDebtorSID can be used to look at a list of transactions for a debtor. The AR Debtor (340) file has a variable pointer called Debtor (.01) field that can either be a patient, employee, institution, insurance company, or a vendor. The Dim.ARDebtor view splits the variable pointer into separate columns; PatientSID, StaffSID, InstitutionSID, InsuranceCompanySID, and VendorSID.
      1. Dim.Vendor - This view displays a listing of vendors used by the site.
   7. Dim.ARDebtList – The view displays text entries that are used in debt collection letters to identify the source of the bill.
   8. Dim.ARCategory - This view displays the categories used for billing purposes.
   9. Dim.ARGroup – The view displays site specified values used to represent a person, institution or entity.
   10. Dim.ARGroupType - The type of group defines what 'category' a group belongs to and the parameters that are associated with the specific type of group.
   11. Dim.ARTransactionType - This view displays the type categories used to identify transactions.
   12. Dim.RevenueSourceCode – The view displays revenue source codes.
3. **IB.EEOBClaim** – The IB.EEOBClaim view is the parent explanation of benefit (insurance remittance) record for a bill. The EventDateTime column is used for the cutoff date.
   1. IB.EEOBClaimAdjustment – The view displays the 835 Claim Level Adjustment (file 361.11) information for the parent EEOB record. The EventDateTime column is inherited from the parent and used for the cutoff date.
      1. IB.EEOBClaimAdjustmentReason – The view displays reasons for the adjustment to the claim. The EventDateTime column is inherited from the parent and used for the cutoff date.
      2. IB.EEOBLineAdjustment - The view displays the 835 Line Level Adjustments (file 361.115) for the adjusted claim. The EventDateTime column is inherited from the parent and used for the cutoff date.
         1. IB.EEOBLineAdjGroupCode – The view displays the group code for the claim line adjustment. The EventDateTime column is inherited from the parent and used for the cutoff date.
            1. IB.EEOBLineAdjGroupReason – The view displays the reason for the claim line adjustment. The EventDateTime column is inherited from the parent and used for the cutoff date.
         2. IB.EEOBLineAdjModifier – The view displays the paid modifiers for the claim line adjustment. The EventDateTime column is inherited from the parent and used for the cutoff date.
         3. IB.EEOBLineAdjRemark – The view displays the remarks for the claim line adjustment. The EventDateTime column is inherited from the parent and used for the cutoff date.
   2. IB.EEOBClaimARAmountDistribution – The view displays the list of bills that will apply to the electronic remittance along with the amount that was paid/retracted. The EventDateTime column is inherited from the parent and used for the cutoff date.
4. **IB.EDITransmissionBatch** - This view contains a record for each 'batch' created for EDI transmission. The FirstSentDateTime column is used as a cutoff date for the view.
   1. IB.EDITransmitBill - This view contains a record for each bill for each time it is included in a batch for EDI transmissions. The EventDateTime column is used for the cutoff date.
   2. IB.EDIMessage - This view contains the messages that are sent electronically back to the site relating to EDI processing. The EnteredDateTime column is used for the cutoff date.
      1. Dim.EDIMessageRouter – The view contains the mail group(s) designated to receive transaction processing error messages.
5. **IB.IBAction** – The Integrated Billing Action (file 350) provides a link between the accounts receivable package and the other packages causing the billing action. The ResultingFrom field is a free text variable pointer that identifies what file and record is associated with the copay charge. The charge will be from one of the following sources; Prescription (52), Outpatient Encounter (409.68), inpatient Patient Movement (405) records, fee basis PTF (45) records, or from the Integrated Billing Action (350) file. In the IB.IBAction view, the variable pointer has been resolved to the following SID columns; ResultingFromIBActionSID, VisitSID, RxOutpatSID, RxOutpatFillSID, InpatientSID, and InpatientFeeBasisSID. The EnteredDateTime column is used for the cutoff date.
   1. Dim.IBActionStatus – The view contains billing statuses for the Integrated Billing Action (file 350).
   2. Dim.IBActionType – The view contains billing types for the Integrated Billing Action (file 350).
   3. Dim.IBChargeRemoveReason - This view contains the reasons that an IB Action entry was cancelled.
   4. Dim.IBStopCodeBillType – The view lists stop codes and effective date for billing rate types.
6. **IB.IBClaimsTracking** – The claims tracking view contains records monitored by the site MCCF and UR staff. The EpisodeDateTime column is used for a cutoff date.
   1. Dim.IBClaimsTrackingNonBillableReason - This view displays reasons that may be entered into claims tracking to specify why a claim isn't billable.
   2. Dim.IBClaimsTrackingType - This view contains the types of events that can be stored in claims tracking and how the automated biller handles each type of event.
7. **IB.IBCopayTransaction -** This view stores transactions for outpatient medication copayments. The transactions are used to store detailed information about a patient's prescription copayments such as amounts billed. The TransactionEffectiveDateTime column is used for the cutoff date.
8. **Dim.NonBillableClinic** – The view contains a foreign key to the Dim.Location view and identifies if care preformed in the clinic should not be used to generate third party (insurance) claims.
9. **Dim.NonBillableStopCode** – The view contains a foreign key to the Dim.StopCode view and identifies if care preformed in the clinic with the specified stop code should not be used to generate third party (insurance) claims.
10. **Dim.IBSiteParameter** - This file contains the data necessary to run and manage the Integrated Billing package.
    1. Dim.HealthSummaryType – The view displays the type of the health summary (such as Outpatient or Inpatient).
11. **Dim.IBClaimsTrackingAmount** – The view displays yearly and monthly counts of types of bills.

### New View Versions

Most the views listed above are new views that will be added directly to xDWWork views however there were four dimension views that were updated with the release of the Integrated Billing domain. The following is a list of views that will be placed in SPVNext database, then deployed to the xDWWork database.

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| **Dim.IBActionType**  *Current Version* | *Action* |
| AccountsReceivableCategoryIEN | Column renamed to ARCategoryIEN, column will be available in SPV. |
| AccountsReceivableCategorySID | Column renamed to ARCategorySID. |
| ServiceSectionIEN | Column will be available in SPV. |
| ServiceSection | Column removed. |
| CancellationIBActionTypeIEN | Column will be available in SPV. |
| CancellationIBActionType | Column removed. |
| UpdateIBActionTypeIEN | Column will be available in SPV. |
| UpdateIBActionType | Column removed. |
| NewIBActionTypeIEN | Column will be available in SPV. |
| NewIBActionType | Column removed. |
| ETLBatchID | Column will be available in SPV. |
| VistaCreateDate | Column will be available in SPV. |
| VistaEditDate | Column will be available in SPV. |

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| --- | --- |
| **Dim.IBInsurancePayer**  *Current Version* | *Action* |
| CMSEDIIDNumber | Column renamed to ProfessionalEDIIDNumber |
| UBEDIIDNumber | Column renamed to InstitutionalEDIIDNumber |

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| --- | --- |
| **Dim.InsuranceCompany**  *Current Version* | *Action* |
| OneOutpatientVisitOnBillOnlyFlag | Column renamed to OneOptVisitOnBillOnlyFlag |
| AmbulatorySurgeryRevenueCodeSID | Column renamed to AmbulatorySurgeryIBRevenueCodeSID |
| CMSProviderNumber | Column renamed to ProfessionalProviderNumber |
| StreetAddress | Column renamed to StreetAddressLine1 |
| StreetAddress2 | Column renamed to StreetAddressLine2 |
| StreetAddress3 | Column renamed to StreetAddressLine3 |
| InpatientClaimsStreetAddress | Column renamed to InpatientClaimsStreetAddress1 |
| AppealsAddress | Column renamed to AppealsAddress1 |
| PrescriptionRefillRevenueCodeSID | Column renamed to PrescriptionRefillIBRevenueCodeSID |
| InquiryAddress | Column renamed to InquiryAddress1 |
| OutpatientClaimsStreetAddress | Column renamed to OutpatientClaimsStreetAddress1 |
| PrescriptionClaimsStreetAddress | Column renamed to PrescriptionClaimsStreetAddress1 |
| CMSPayerIdentifier | Column renamed to ProfessionalEDIIDNumber |
| UBPayerIdentifier | Column renamed to InstitutionalEDIIDNumber |
| TestLastExtractDate | Column renamed to TestLastExtractDateTime,  data type changed from Date to DateTime2 |
| TestLastExtractDateTransformSID | Column renamed to TestLastExtractDateTimeTransformSID |
| CMSPerformingProviderIDTypeSID | Column renamed to CMSProfessionalIBProviderIDTypeSID |
| UBPerformingProviderIDTypeSID | Column renamed to UBProfessionalIBProviderIDTypeSID |
| CMSReferringIBProviderIDTypeSID | Column renamed to CMSReferringProfessionalIBProviderIDTypeSID |
| CMSReferringIBProviderIDTypeFlag | Column renamed to CMSRequiresIBProviderIDTypeFlag |
| CMSAttendingProviderIDFlag | Column renamed to UBRequirementFlag |
| UBAttendingProviderIDFlag | Column renamed to CMSRequirementFlag |
| PerformingProviderCareUnit | Column renamed to PerfProvCareUnitPrompt |
| ReportDeletedCompanyToStaffSID | Column renamed to RepointDeletedCompanyToStaffSID |
| UBFirstIDQualifier | Column renamed to FirstInstitutionalIDQualifier |
| UBFirstID | Column renamed to FirstInstitutionalID |
| UBSecondIDQualifier | Column renamed to SecondInstitutionalIDQualifier |
| UBSecondID | Column renamed to SecondInstitutionalID |
| CMSFirstIDQualifier | Column renamed to FirstProfessionalIDQualifier |
| CMSFirstlID | Column renamed to FirstProfessionalID |
| CMSSecondIDQualifier | Column renamed to SecondProfessionalIDQualifier |
| CMSSecondID | Column renamed to SecondProfessionalID |

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| **Dim.Vendor**  *Current Version* | *Action* |
| SupplyWarehouseIndicator | Column renamed to SupplyWarehouseFlag |
| IsASF129OnFileIndicator | Column renamed to StandardFormIndicator |
| SF129Date | Column renamed to SF129DateTime,  data type changed from Date to DateTime2 |
| SF129DateTransformSID | Column renamed to SF129DateTimeTransformSID |
| CalmIDNumber | Column renamed to CALMIdentificationNumber |
| DunBradstreet | Column renamed to DunBradstreetNumber |
| VendorCreatedDate | Column renamed to VendorCreatedDateTime  data type changed from Date to DateTime2 |
| VendorCreatedDateTransformSID | Column renamed to VendorCreatedDateTimeTransformSID |
| InactivatedVendor | Column renamed to InactivatedVendorFlag |
| InactivationDate | Column renamed to InactivationDateTime  data type changed from Date to DateTime2 |
| InactivationDateTransformSID | Column renamed to InactivationDateTimeTransformSID |
| NonRecurringRecurringVendor | Column renamed to RecurringVendorCode |

## References

[CDW Metadata Page (ER Diagram)](https://vaww.cdw.va.gov/metadata/default.aspx)

[CDW Support](https://vaww.dwh.cdw.portal.va.gov/Support/SitePages/CDWSupportHome.aspx)

Vista Documentation [Library](http://www.va.gov/vdl/section.asp?secid=1)

Data Architecture [Repository](http://vaausdarmul81.aac.dva.va.gov/pls/apex/)