

Entity Relationship Diagram (ERD)

Instructions for CO APCD Data Users

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Introduction

This document provides guidance to data users on the use of the Entity Relationship Diagram (ERD). The ERD is a visual representation of the relationships between data tables in the Colorado All Payer Claims Database (CO APCD). As a Relational Database, CO APCD tables can be linked (joined) using data elements designated as primary or foreign keys. These key data elements are listed at the end of this document.

Additional details regarding data element meanings and relationships are available in the Data Submission Guide (DSG) and the Data Dictionary linked below.

The accompanying ERD illustrates the relationships between standard CO APCD tables. Note: not all data extracts contain the tables represented in this document.

For more background on Entity Relationship Diagrams, please refer to this [link](#).

For more background on Relational Databases, please refer to this [link](#).

Reference Materials

[ERD](#)

Visual representation of CO APCD tables and relationships

[DSG](#)

Updated annually, instructs CO APCD data submitters (payers) on the structure and content of required data submissions to the CO APCD

Data Dictionary

Includes CO APCD data element (field) definitions

Keys

Claim ID

CO APCD-generated code for medical claim control number. Claim_IDs are unique throughout the CO APCD.

Provider ID

The Provider_ID is a CO APCD-generated integer substitute value of the payer-supplied Provider_ID. This applies to medical claims' billing and Service_Provider_IDs.

- Service_Provider_ID reflects the provider who directly performed or provided a health care service to the member. This can also be referred to as a rendering provider.
- Billing_Provider_ID reflects the provider or other entity that submitted the claim.

Provider Composite ID

CO APCD-generated code unique to the provider across claims, payers, and time.

- Service_Provider_Composite_ID reflects the provider who directly performed or provided a health care service to member regardless of payer and time.
- Billing_Provider_Composite_ID reflects the provider or other entity that submitted the claim regardless of payer and time.

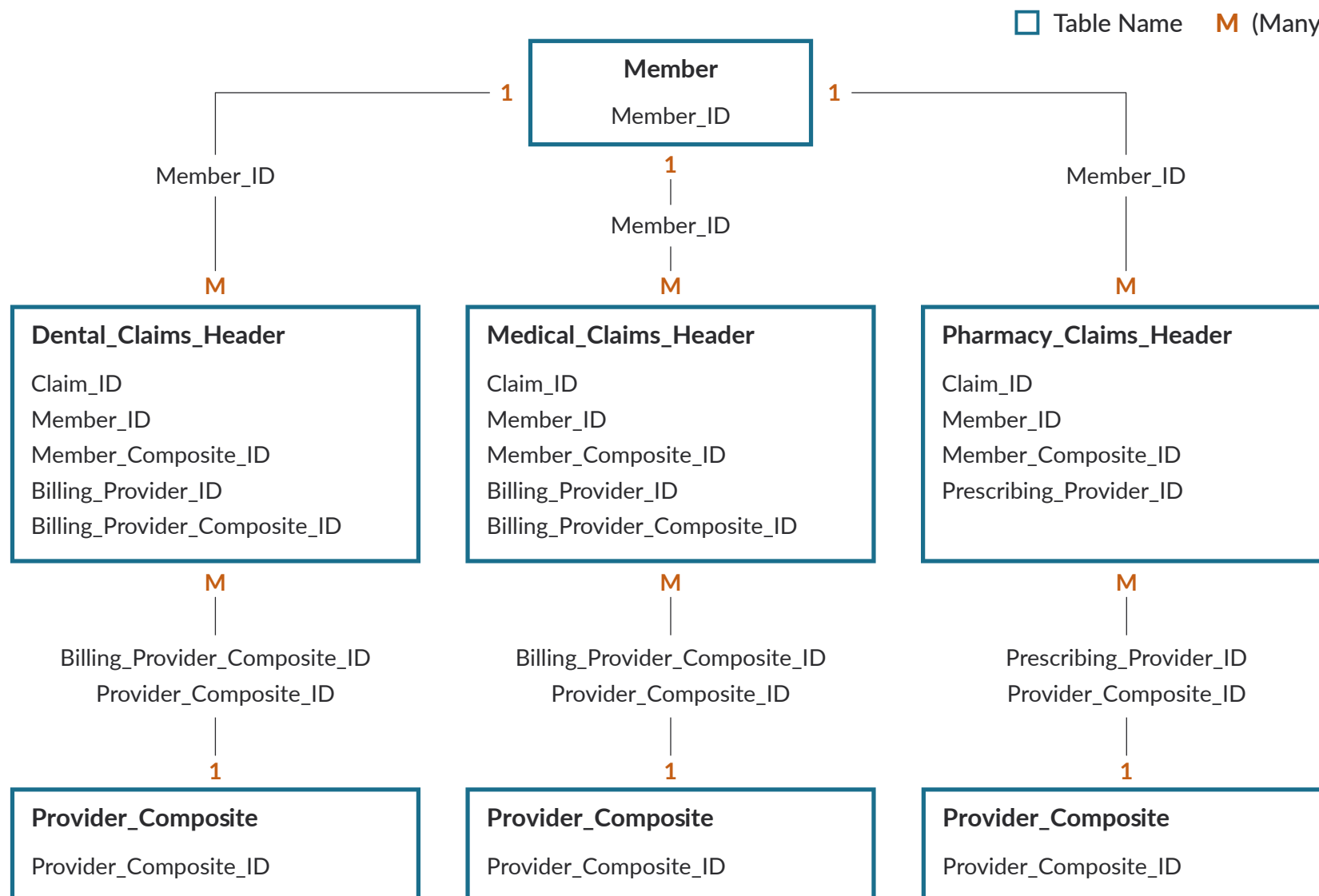
Member ID

CO APCD-generated code unique to the member across a single payer.

Member Composite ID

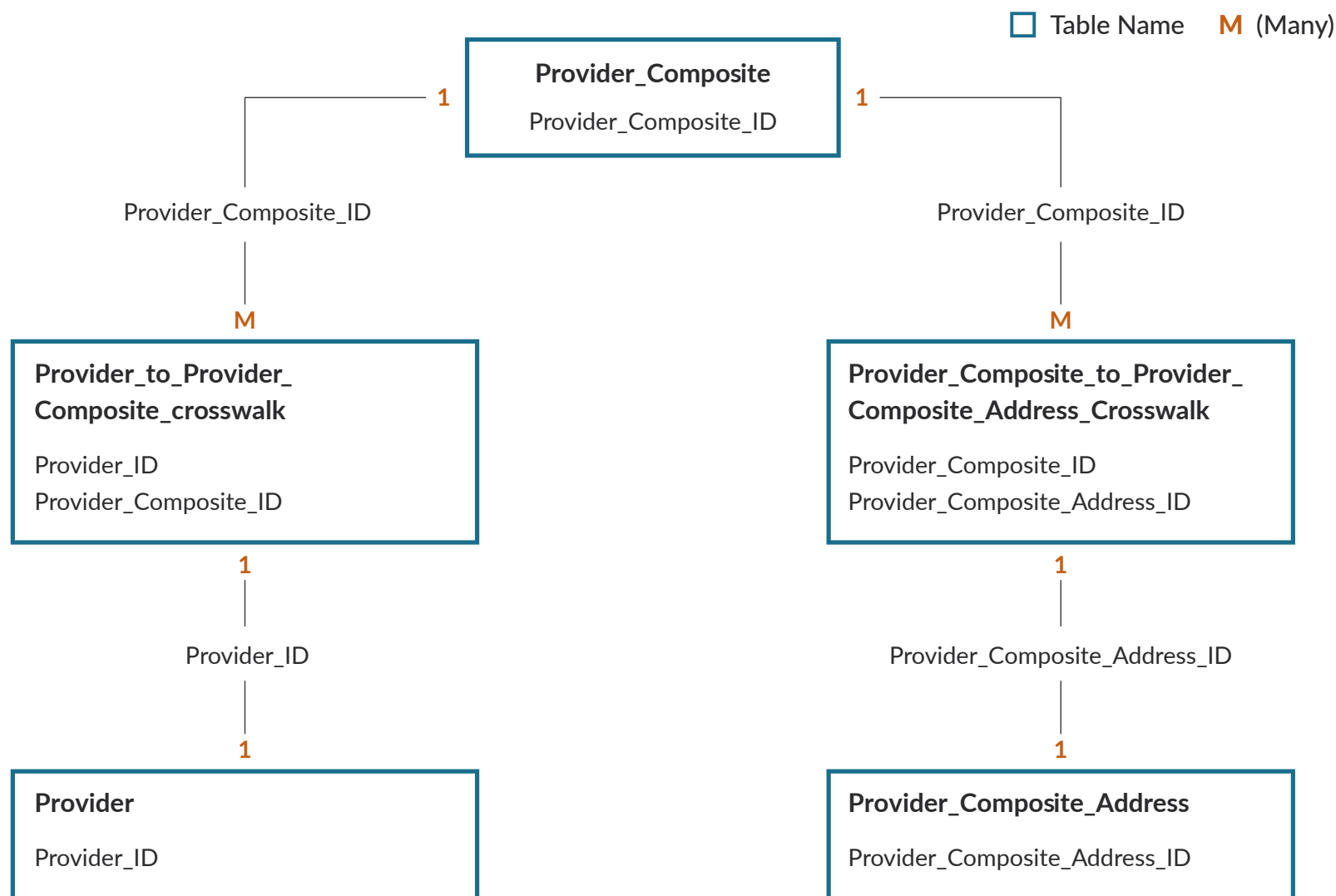
CO APCD-generated code consolidating element 'Member_ID' from various payers and assigned to all eligibility and claims records associated with a single individual.

Table Connection and Key



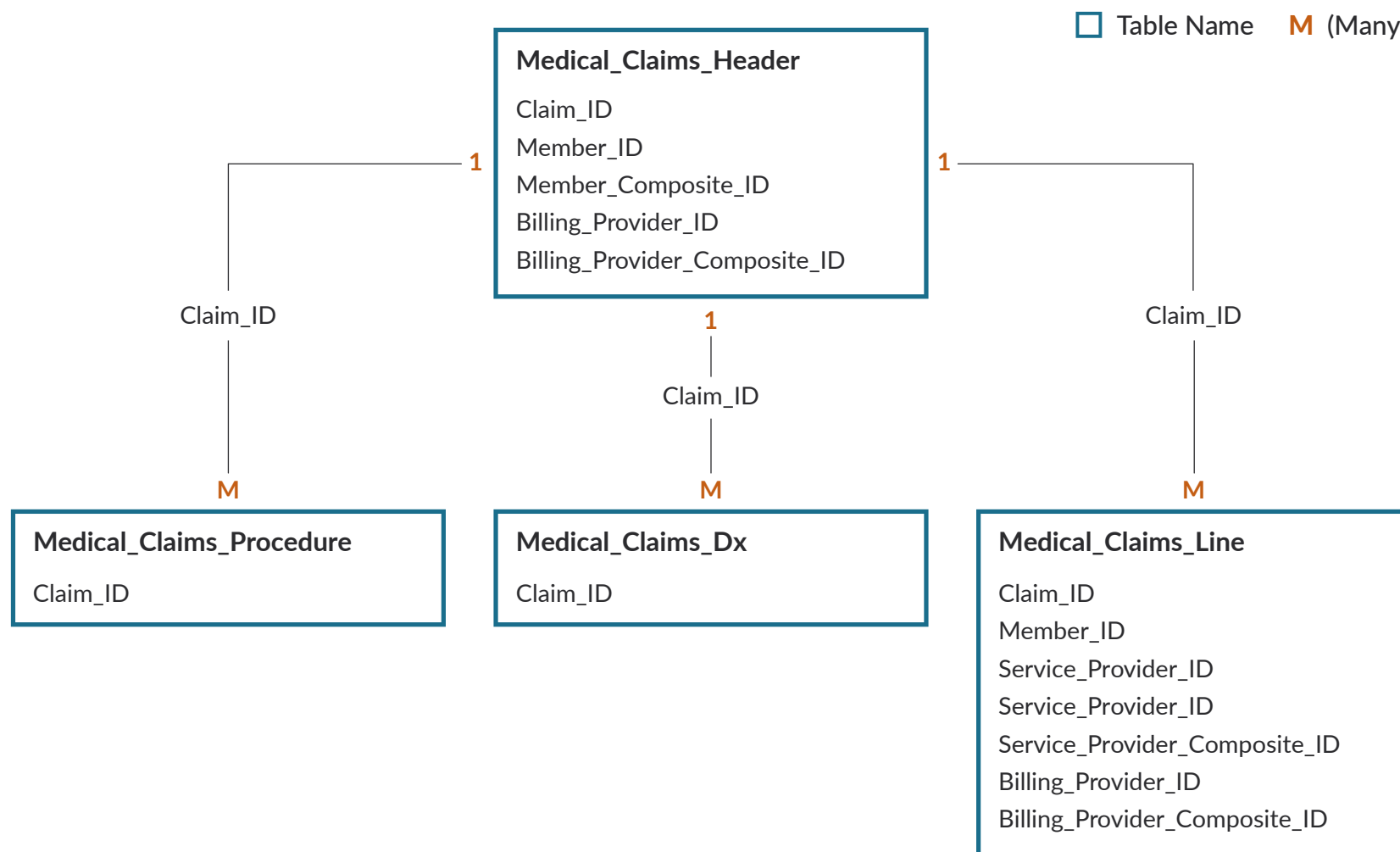
*** Billing provider composite ID and service provider composite ID can each link to provider composite ID.

Provider



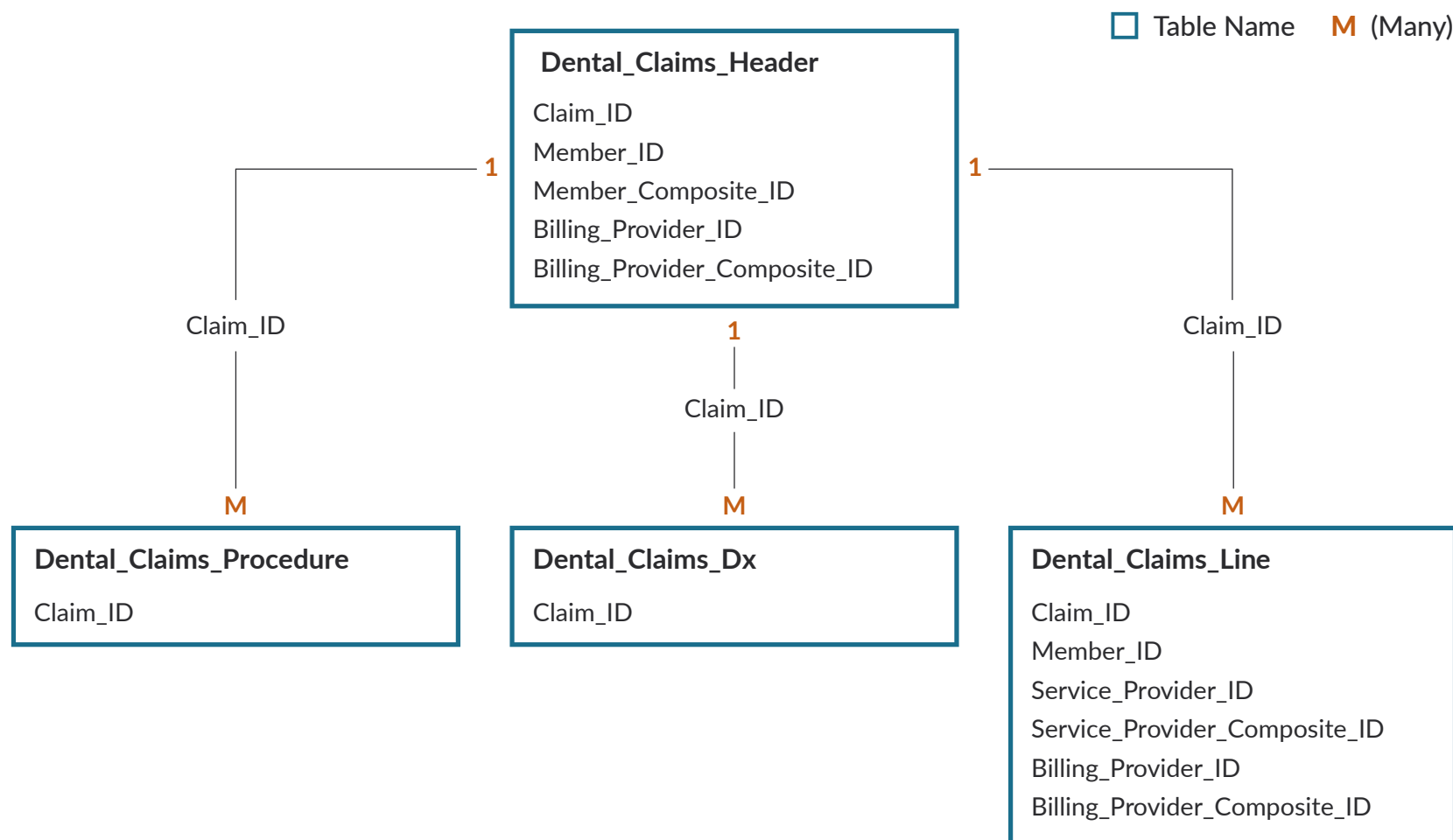
Claims

Medical_Claims



Claims

Dental_Claims



Claims

Pharmacy_Claim

□ Table Name **M** (Many)

Pharmacy_Claims_Header

Claim_ID
Member_ID
Member_Composite_ID
Prescribing_Provider_ID

1

Claim_ID

M

Pharmacy_Claims_Line

Claim_ID
Member_ID
Member_Composite_ID
Prescribing_Provider_ID

Member

Member_Eligibility

□ Table Name **M** (Many)

