tmforum

Frameworx 11 Certification Report

Information Framework

Release 9.0

cVidya
MoneyMap®
Release 6.5

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1 Introduction

1.1 Executive Summary

This document provides details of cVidya's self-assessment and TM Forum's certification of cVidya's MoneyMap® , Release 6.5 product against TM Forum's Information Framework Release 9.0 Domains/Aggregate Business Entities.

1.2 Representation of cVidya MoneyMap®, Release 6.5 Functionality/Capability

cVidya's MoneyMap® solution is based on two pillars: Market leading products and methodology based on industry standards and best practices such as the TM Forum.

cVidya MoneyMap®/Suite of products implement Revenue Assurance functionality, covering a broad spectrum of products, services, technologies and requirements. In addition, they are robust, scalable and secure. cVidya's unique methodology relies on the experience and expertise of its personnel and leadership of the Revenue Assurance group within the TM Forum. This methodology is one of the distinguishing features of cVidya, as well as a major ingredient in the success of our projects.

cVidya developed MoneyMap® to answer current and future Revenue Assurance challenges that service providers are facing. Based on the holistic Revenue Assurance approach, MoneyMap®/Suite encompasses the entire revenue chain. It enables Service Providers, including Mobile, Fixed, NG, VoIP, IPTV, Gaming, Content and value added services to monitor the revenue chain, gain insight into underlying business processes, identifies revenue exposure points, stop and reclaim revenue leakage.

MoneyMap® is a complete, end-to-end, carrier grade Revenue Assurance suite of products, developed to address all potential revenue leakage issues and is comprised of the following three main products:
- **MoneyMap® Configuration** – identifies mismatches between static data coming from the different systems used along the carrier's revenue chain.
- **MoneyMap® Usage** – Identifies leakage along the Network-to-Bill route utilizing usage (xDRs) data.
- **MoneyMap® Rating & Billing Verification** – independent audit and verification of the rating and billing processes to identify mismatches and errors.

All three products utilize **MoneyMap's platform**, a software infrastructure that provides the following services:
- **ETL and Sampling** – including out-of-the-box support for a wide variety of systems, network elements and vendors.
- **Management** - Unified management of KPIs, Alarms, Rules and Cases.
- **Data Analytics** – Advanced Revenue Assurance practices and methodology, embedded in predefined, customizable reports and dashboards.
- **Administration** – A single point of monitoring and management of all modules and processes.
- **Security** – Defining users, roles and granular permissions; auditing user and system actions.
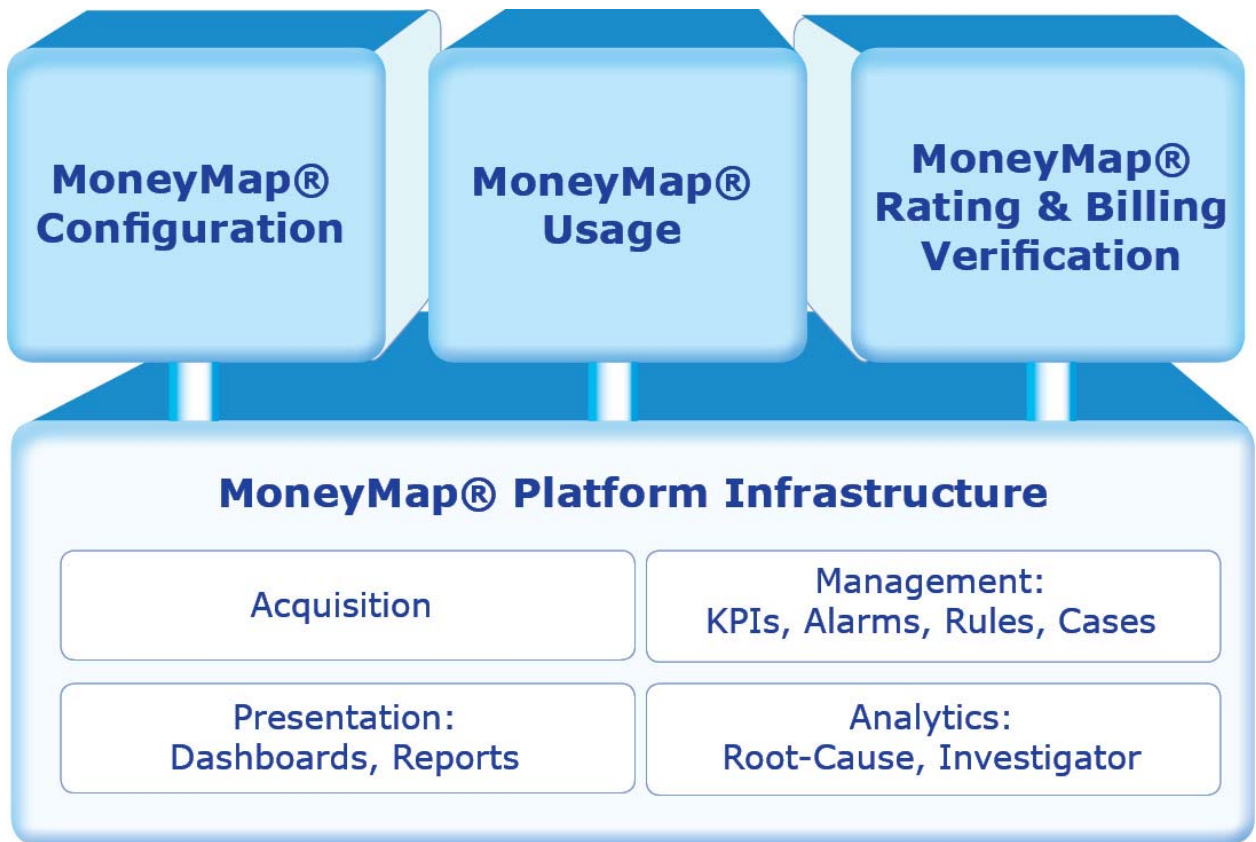
Figure 1.1 cVidya MoneyMap® Modules Diagram

cVidya MoneyMap® helps telecom, media, entertainment and utilities service providers to better ensure that network assets are optimally utilized, immediately become aware of exceptions and their sources, actual revenue streams match the forecast, and the actual partners costs matches the expected ones.

1.3   Mapping Technique Employed

Based on the certification scope the list of ABEs (Aggregated Business Entities) is defined. The entities, association classes and dependent entities for each ABE in scope are allocated for the assessment.

SID model files and addendum specifications are analyzed for the entities' and association classes' definitions to determine their roles. Attributes explicit to the entities and association classes as well as inherited attributes are listed.

This information is used to map each entity's or association class' attribute to the appropriate product's attribute to show how the model is supported. For each (when needed) mapping item - attribute type, possible values and comments are provided.

2   Assessment Scope

2.1   Information Framework Scope and Mapping

Figure 2.1 illustrates the Information Framework Level 3 ABEs that were presented in scope for the Assessment, and the textual callouts represent the domain areas of the cVidya MoneyMap® product that were assessed and support the corresponding SID ABEs.

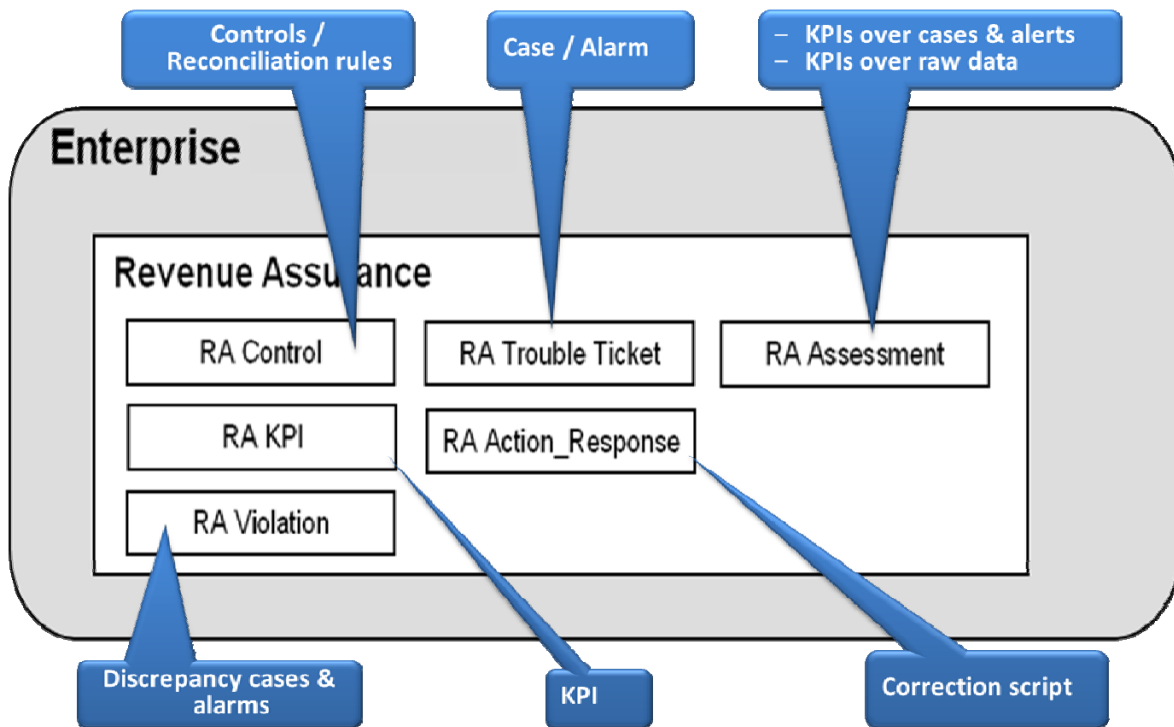**Figure 2.1 Information Framework – cVidya MoneyMap® Release 6.5, Assessment Scope**

2.2   Product Scope

Figure 2.2 illustrates the cVidya MoneyMap®, Release 6.5 with the domains that were presented in scope. The textual callouts represent the TM Forum Aggregate Business Entities (ABEs) that were assessed and are supported by the corresponding cVidya domains.
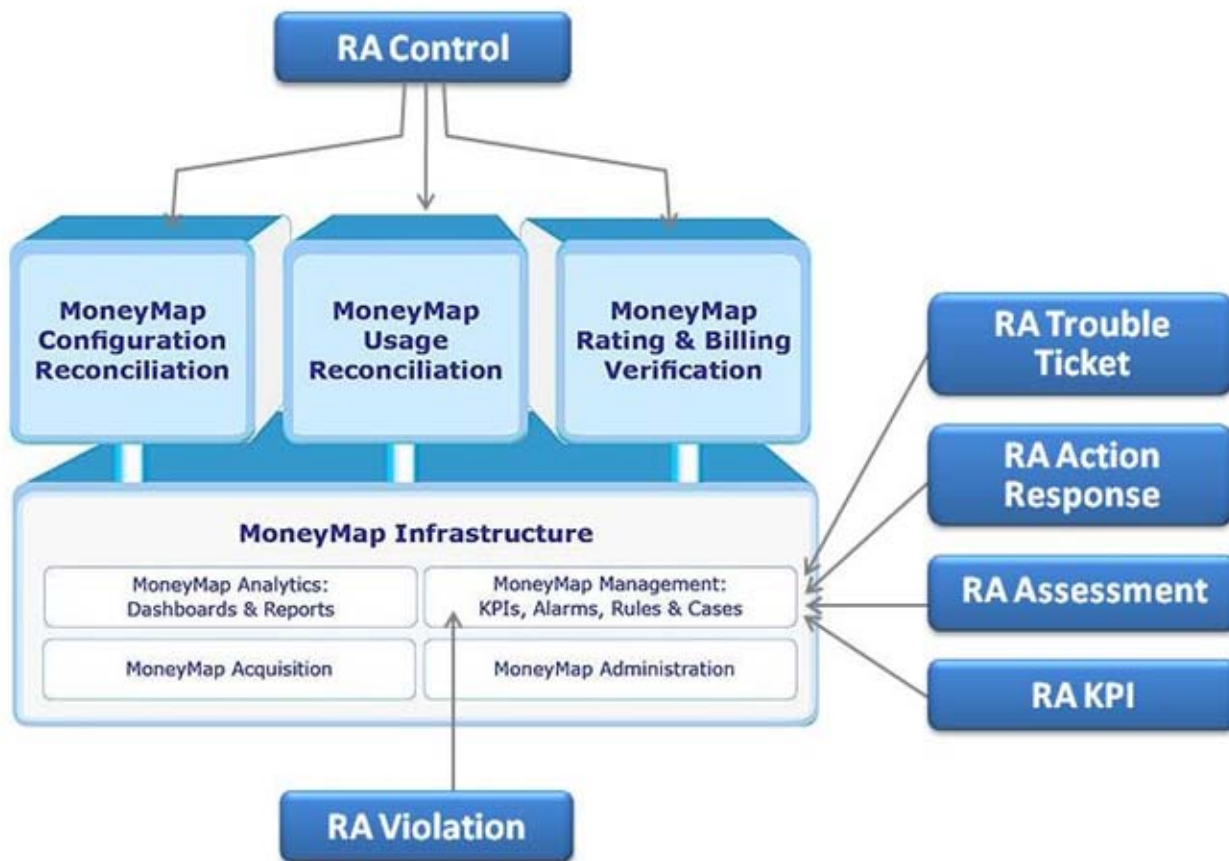
Figure 2.2 cVidya MoneyMap®, Release 6.5 – Product Scope

3 Information Framework (SID) Conformance

3.1 Information Framework – Conformance Overview

The following chart is an overview of the conformance scores granted to the ABEs presented in scope for the cVidya's MoneyMap® , Release 6.5 Information Framework Assessment. Each ABE was measured using an Information Framework (SID) conformance scoring scale of 1–7, with 1 being lowest, 3 being the acceptable minimum, and 7 being the highest score of conformance. See Figure 3.2 TM Forum Information Framework – Conformance Scoring Rules for details.
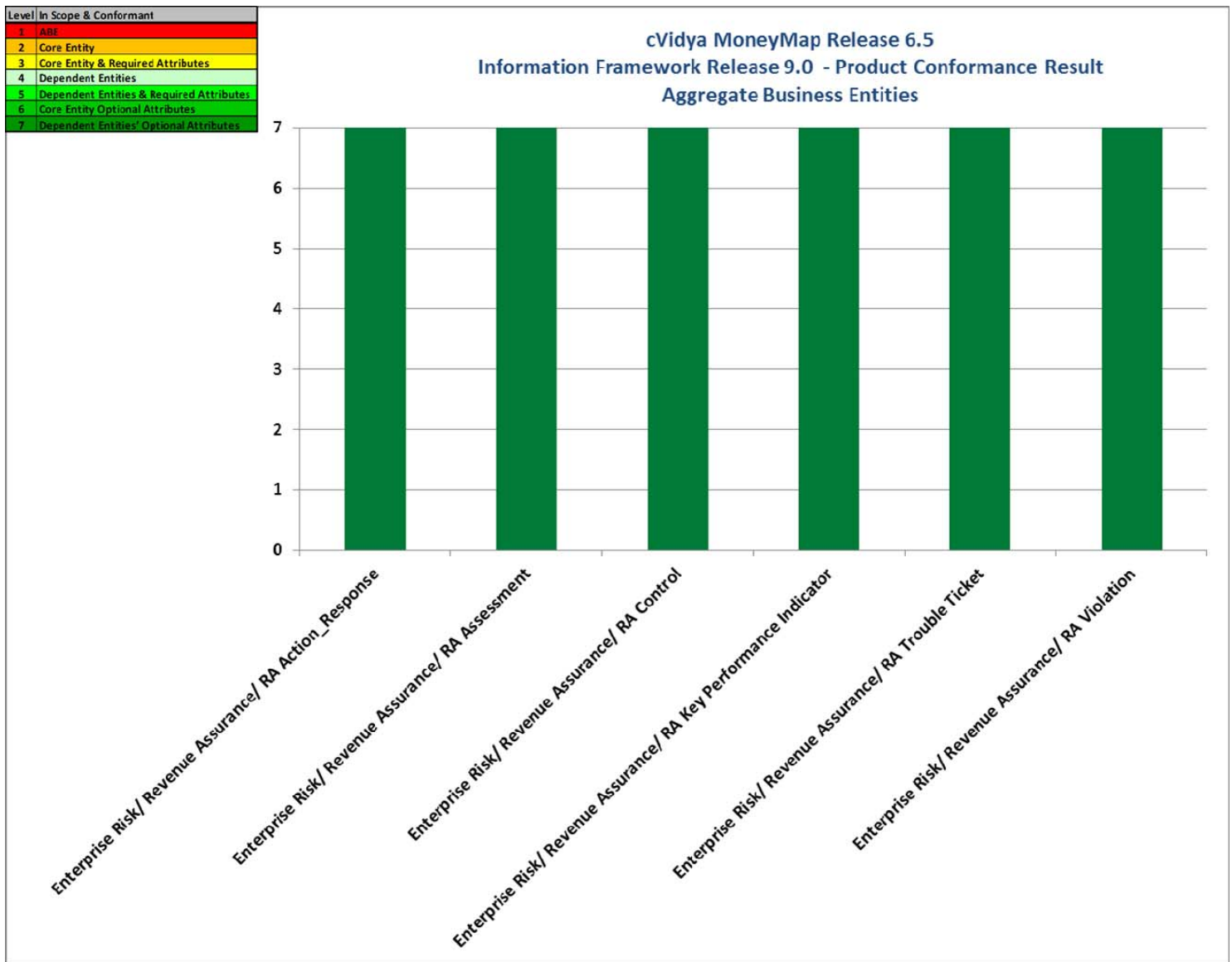

Figure 3.1 cVidya MoneyMap® Release 6.5 – Conformance Scores

The conformance scores granted were based on the following TM Forum scoring rules:

Product & Solution: Information Framework (SID) Conformance Score Descriptions	
Conformance Score	**Qualifier**
Conformance Score = 1	The content of the model is compatible with a subset of the Information Framework (SID) ABEs that define its domain coverage. This provides two interacting components/solutions with a common vocabulary and model structure. The subset represents the scope of the model, expressed in Information Framework (SID) domains and ABEs.
Conformance Score = 2	The model has achieved Conformance Score of 1 and the content of the ABE, part of the domain coverage and defined in the model, contains the ABE's core business entity or entities.
Conformance Score = 3	The model has achieved Conformance Score of 2 and the required attributes of the ABE's core entity or entities are defined in the model.
Conformance Score = 4	The model has achieved Conformance Score of 3 and dependent entities within the ABE's are defined in the model.
Conformance Score = 5	The model has achieved Conformance Score of 4 and the required attributes of the ABE's dependent entities are defined in the model.
Conformance Score = 6	The model has achieved Conformance Score of 5 and all attributes of the ABE's core entities are defined in the model.
Conformance Score = 7	The model has achieved Conformance Score of 6 and all attributes of the ABE's dependent entities are defined in the model.

Figure 3.2 TM Forum Information Framework – Conformance Scoring Rules

<u>***Notes:***</u>

*A **core business entity** is an entity upon which other entities within the ABE are dependent. For example, Service in the Service ABE. A model should strive to attain as high a level of Information Framework (SID) conformance as possible. A core entity is also an entity whose absence in the ABE would make the ABE incomplete.*

*A **dependent entity** is one whose instances are dependent on an instance of a core entity. For example, a ServiceCharacteristic instance within the Service ABE is dependent upon an instance of the Service entity.*

3.2 Information Framework – Detailed Conformance Result

3.2.1 Enterprise Domain – Conformance Result

Table 3.1 Enterprise Domain ABEs — Conformance Scores

Information Framework (SID) Domain	Information Framework (SID) ABE	Organization Domain	Conformance Score	Comment
Enterprise Domain				
	Enterprise Risk/ Revenue Assurance/ RA Action_Response		7	Core entity, required attributes, dependent entities, required attributes of dependent entities, all attributes of the core entity, all attributes of dependent entities.
	Enterprise Risk/ Revenue Assurance/ RA Assessment		7	Core entity, required attributes, dependent entities, required attributes of dependent entities, all attributes of the core entity, all attributes of dependent entities.
	Enterprise Risk/ Revenue Assurance/ RA Control		7	Core entity, required attributes, dependent entities, required attributes of dependent entities, all attributes of the core entity, all attributes of dependent entities.
	Enterprise Risk/ Revenue Assurance/ RA Key Performance Indicator		7	Core entity, required attributes, dependent entities, required attributes of dependent entities, all attributes of the core entity, all attributes of dependent entities.
	Enterprise Risk/ Revenue Assurance/ RA Trouble Ticket		7	Core entity, required attributes, dependent entities, required attributes of dependent entities, all attributes of the core entity, all attributes of dependent entities.
	Enterprise Risk/ Revenue Assurance/ RA Violation		7	Core entity, required attributes, dependent entities, required attributes of dependent entities, all attributes of the core entity, all attributes of dependent entities.