

Framework 10 Certification Report

Information Framework R9.0

International Turnkey Systems

TABS Suite of Products

Series 7

July 2011



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1 Introduction

1.1 Executive Summary

This document provides details of International Turnkey System's self-assessment and TM Forum's certification of the International Turnkey Systems, TABS Suite of Products, Series 7 product against TM Forum's Information Framework Release 9.0 Domains/Aggregate Business Entities.

1.2 Representation of ITS TABS Suite of Products, Series 7 Functionality/Capability

About TABS

TABS is a turnkey O/BSS solution for the Communications industry and one of ITS's best-selling offerings. At its core lies our patent 360° Convergence philosophy for service providers' businesses. The vision is to implement the complete O/BSS Value Chain in a way that each step seamlessly leads to another so that a virtuous cycle of convergence is created. Resultantly, the Service Provider is empowered to sit on top of the system, launch innovations with flexibility, monetize customer lifecycles, improve operational quality and efficiency, manage revenues, obtain customers insights and feed them back into innovation. Delivering on this out of the box capability at proven low risk, reduced costs and rapid implementation rollouts, is an achievement ITS takes great pride in.

TABS 360° Convergence is a ready to go and pre-integrated box jam packed with business process repositories and best-practices expertise gained from hundreds of implementations worldwide. The package is designed to enable Service Providers, either established or Greenfield, to capitalize on the ever-growing opportunities with the advent of NGNs, All-IP, Multi-play, Service and Customer Convergence, 3G and WiMAX rollouts, VAS Services, merchants, application developers, content providers and what not. This enablement is designed to let operators thrive in competitive markets with differentiation and customer satisfaction.

Highlights

- Managing more than 180M subscribers across 38 operators and a variety of networks.
- SOA Based Service Repository custom delivered to suit your Business Processes (BPM).
- Open & Industry Standard Offering Conformant with TMForum's SID and eTOM, the level of 'conformance' is as per the product & eTOM scope and the conformance levels indicated in this report.
- Carrier Neutral – Support for Fixed/Mobile, GSM, WiMAX, CDMA, IMS etc
- Protocol Neutral – Support for SS7, Diameter, SIP
- Service Neutral – Support for Voice, Messaging, Data, VoIP, Content.
- Multi Organization Support. MVNO/MVNE Support with one platform hosting multiple application instances.
- Carrier Grade Scalability from entry level to tens of millions of customers.



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 1 ABEs (blue border) that were presented in scope for the Assessment, and the textual callouts represent the domain areas of the ITS TABS Suite of Products that were assessed and support the corresponding SID ABEs.

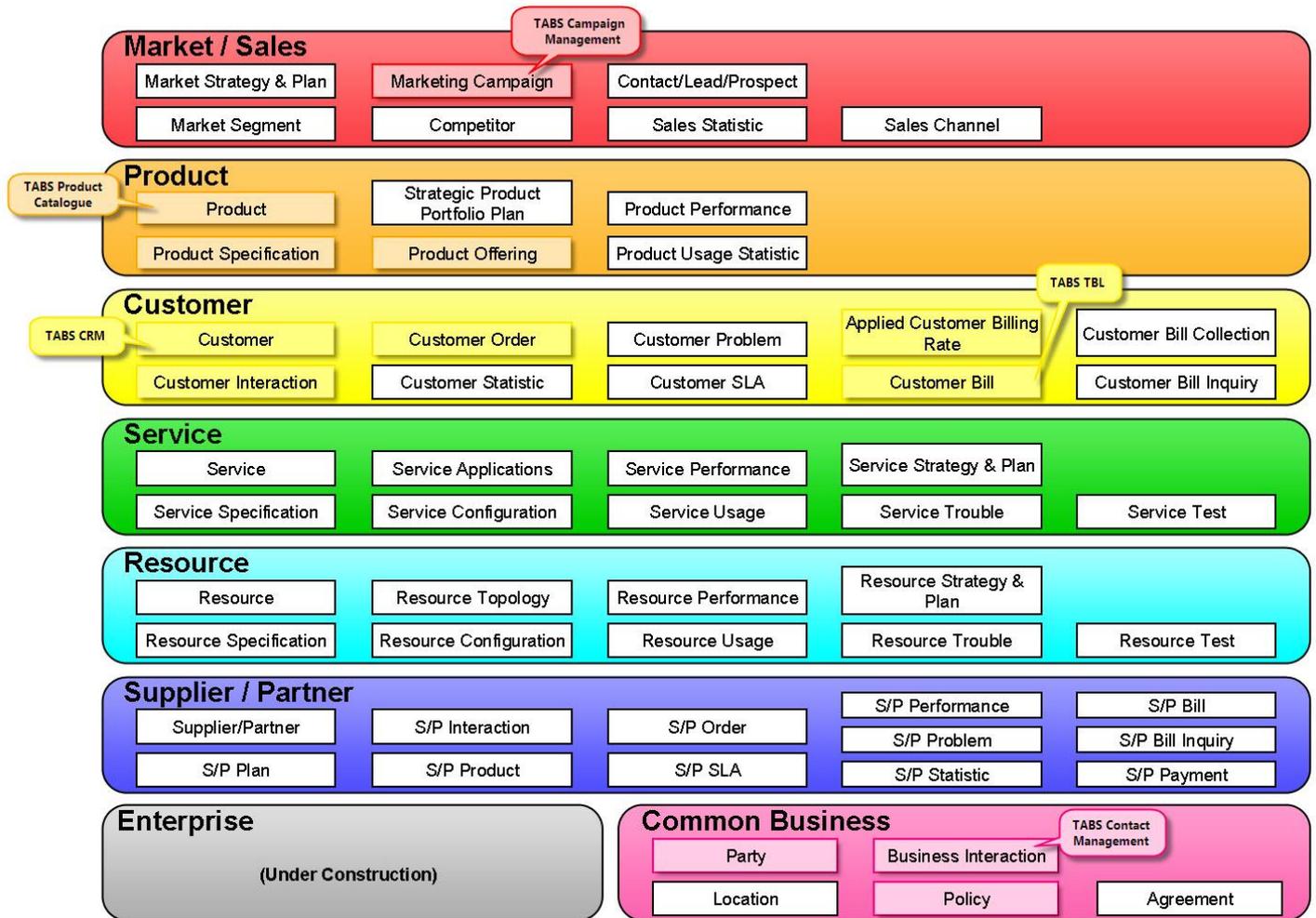


Figure 2.1 Information Framework – ITS TABS Suite of Products, Series 7 Scope

2.2 Product Scope

Figure 2.2 illustrates the ITS TABS Suite of Products, Series 7 product with the domains that were presented in scope bordered in blue. The textual callouts represent the TM Forum Aggregate Business Entities (ABEs) that were assessed and are supported by the corresponding Converse domains.

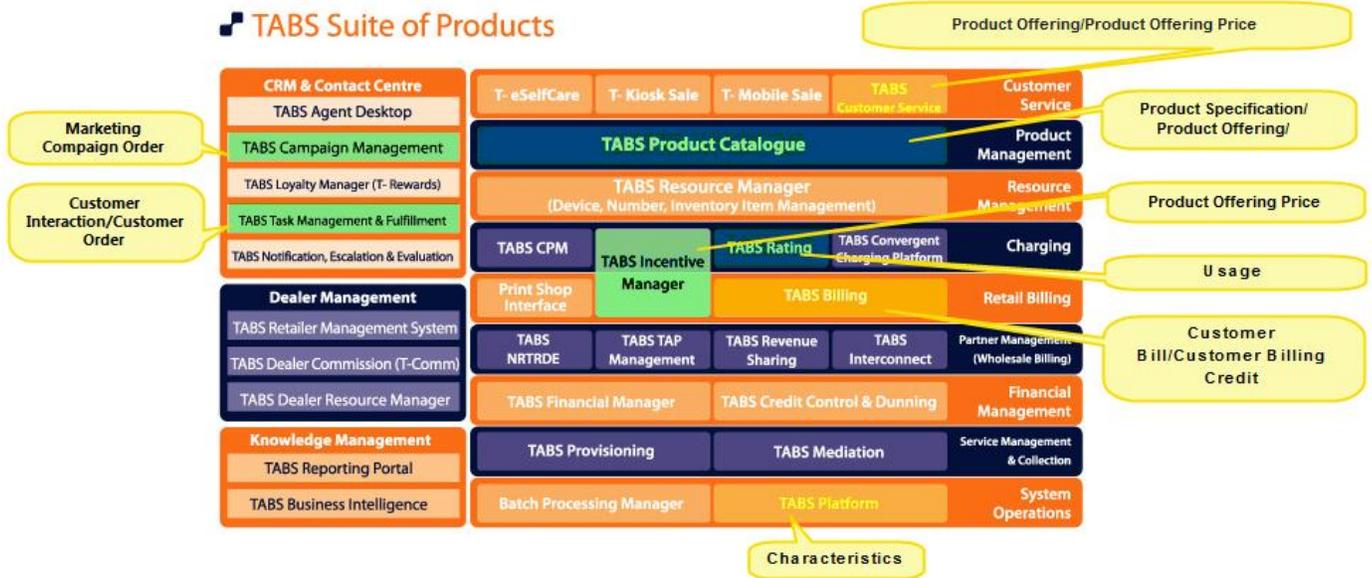


Figure 2.2 ITS TABS Suite of Products, Series 7 – Product Scope

3 Information Framework (SID) Conformance

3.1 Information Framework – Conformance Overview

The following chart is an overview of the conformance levels granted to the ABEs presented in scope for the ITS TABS Suite of Products, Series 7 Information Framework Assessment. Each ABE was measured using an Information Framework (SID) conformance scale of 1–7, with 1 being lowest, 3 being the acceptable minimum, and 7 being the highest level of conformance.

Level	In Scope & Conformant
1	ABE
2	Core Entity
3	Core Entity & Required Attributes
4	Dependent Entities
5	Dependent Entities & Required Attributes
6	Core Entity Optional Attributes
7	Dependent Entities' Optional Attributes

International Turnkey Systems: TABS Suite of Products, Series 7
 Information Framework - Product Conformance Result
 Aggregate Business Entities

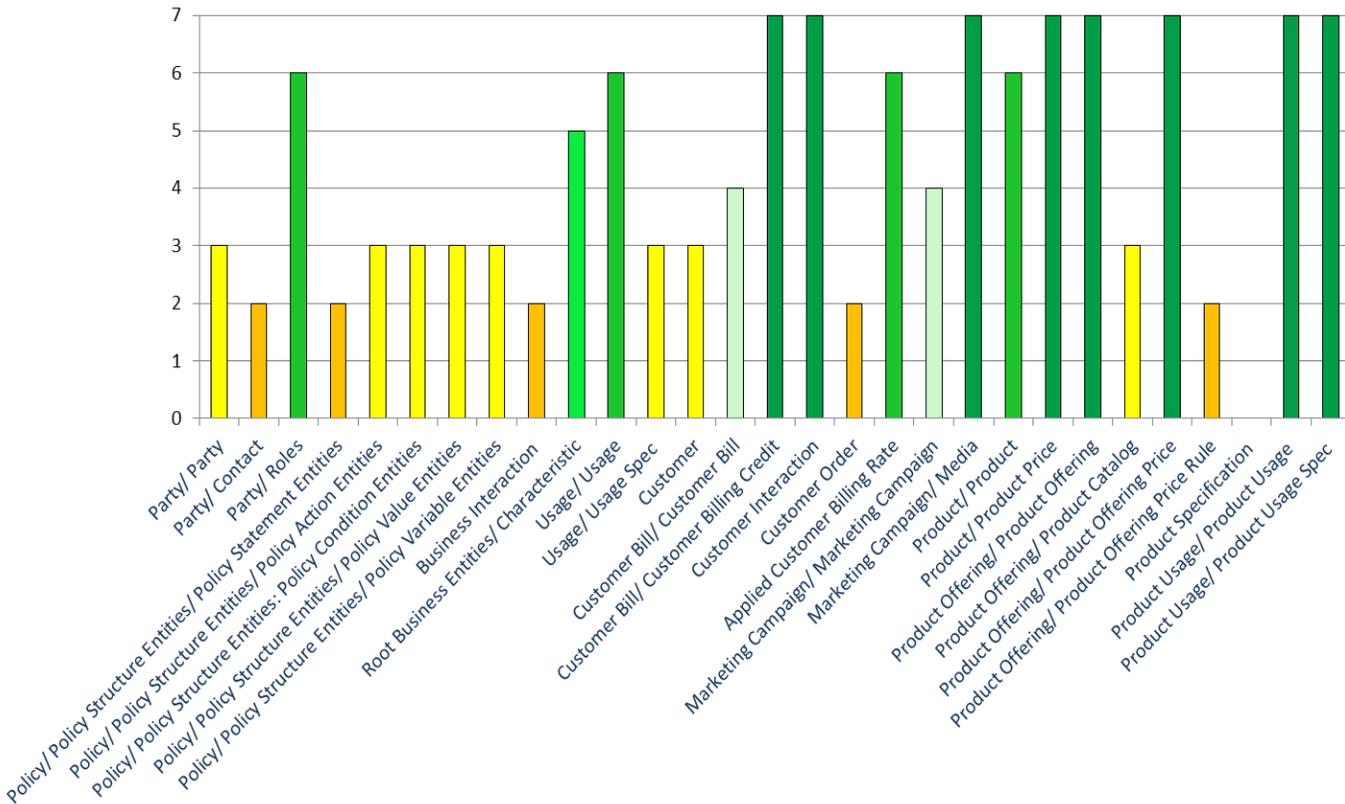


Figure 3.1 ITS TABS Suite of Products – Conformance Summary



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

Product & Solution: Information Framework (SID) Conformance Level Descriptions	
Conformance Level	Qualifier
Level 1 Conformance	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.
Level 2 Conformance	The model has passed Level 1 Conformance 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. 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.
Level 3 Conformance	The model has passed Level 2 Conformance and the required attributes of the ABE's core entity or entities are defined in the model.
Level 4 Conformance	The model has passed Level 3 Conformance and dependent entities within the ABE's are defined in the model. 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.
Level 5 Conformance	The model has passed Level 4 Conformance and the required attributes of the ABE's dependent entities are defined in the model.
Level 6 Conformance	The model has passed Level 5 Conformance and all attributes of the ABE's core entities are defined in the model.
Level 7 Conformance	The model has passed Level 6 Conformance and all attributes of the ABE's dependent entities are defined in the model.

Figure 3.2 TM Forum Information Framework – Conformance Scoring Rules

3.2 Information Framework – Detailed Conformance Result

3.2.1 Common Business Entity – Conformance Result

Table 3.1 Common Business Entity ABEs – Conformance Scores

Information Framework (SID) Conformance				
Information Framework (SID) Domain	Information Framework (SID) ABE	Organization Domain	Conformance Level	Comment
Common Business Entities				
	Party/ Party		3	Core entity, required attributes.
	Party/ Contact		2	Core entity
	Party/ Roles		6	Core entity, required attributes, dependent entities, required attributes of dependent entities, all attributes of the core entity.
	Policy/ Policy Structure Entities/ Policy Statement Entities		2	Core entity.
	Policy/ Policy Structure Entities/ Policy Action Entities		3	Core entity, required attributes.
	Policy/ Policy Structure Entities: Policy Condition Entities		3	Core entity, required attributes.
	Policy/ Policy Structure Entities/ Policy Value Entities		3	Core entity, required attributes.
	Policy/ Policy Structure		3	Core entity, required attributes.



Information Framework (SID) Conformance				
Information Framework (SID) Domain	Information Framework (SID) ABE	Organization Domain	Conformance Level	Comment
	Entities/ Policy Variable Entities			
	Business Interaction		2	Core entity.
	Root Business Entities/ Characteristic		5	Core entity, required attributes, dependent entities, required attributes of dependent entities.
	Usage/ Usage		6	Core entity, required attributes, dependent entities, required attributes of dependent entities, all attributes of the core entity.
	Usage/ Usage Spec		3	Core entity, required attributes.

3.2.2 Customer & Market/Sales Domains – Conformance Result

Table 3.2 Customer & Market/Sales ABEs – Conformance Scores

Information Framework (SID) Conformance				
Information Framework (SID) Domain	Information Framework (SID) ABE	Organization Domain	Conformance Level	Comment
Customer	Customer		3	Core entity, required attributes.
	Customer Bill/ Customer Bill		4	Core entity, required attributes, dependent entities.
	Customer Bill/ Customer Billing Credit		7	Core entity, required attributes, dependent entities, required attributes of dependent entities, all attributes of the core entity, all attributes of dependent entities.
	Customer Interaction		7	Core entity, required attributes, dependent entities, required attributes of dependent entities, all attributes of the core entity, all attributes of dependent entities.
	Customer Order		2	Core entity.
	Applied Customer Billing Rate		6	Core entity, required attributes, dependent entities, required attributes of dependent entities, all attributes of the core entity.
Market/Sales	Marketing Campaign/ Marketing Campaign		4	Core entity, required attributes, dependent entities.
	Marketing Campaign/ Media		7	Core entity, required attributes, dependent entities, required attributes of dependent entities, all attributes of the core entity, all attributes of dependent entities.

3.2.3 Product Domain – Conformance Result

Table 3.3 Product ABEs – Conformance Scores

Information Framework (SID) Conformance				
Information Framework (SID) Domain	Information Framework (SID) ABE	Organization Domain	Conformance Level	Comment
Product	Product/ Product		6	Core entity, required attributes, dependent entities, required attributes of dependent entities, all attributes of the core entity, 60% of dependent entity optional attributes.
	Product/ Product Price		7	Core entity, required attributes, dependent entities, required attributes of dependent entities, all attributes of the core entity, all attributes of dependent entities.
	Product Offering/ Product Offering		7	Core entity, required attributes, dependent entities, required attributes of dependent entities, all attributes of the core entity, all attributes of dependent entities.
	Product Offering/ Product Catalog		3	Core entity, required attributes, 30% of dependent entities.
	Product Offering/ Product Offering Price		7	Core entity, required attributes, dependent entities, required attributes of dependent entities, all attributes of the core entity, all attributes of dependent entities.
	Product Offering/ Product Offering Price Rule		2	Core entity.
	Product Specification		N/A	The Product Offering ABE and this ABE are both supported by the same set of ITS entities/attributes. Therefore, this ABE has not been given a conformance level. It has been retained here because the solution does support basic ProductSpecCharacteristic requirements, which is necessary for the conformance of the Product ABE.
	Product Usage/ Product Usage		7	Core entity, required attributes, dependent entities, required attributes of dependent entities, all attributes of the core entity, all attributes of dependent entities.
	Product Usage/ Product Usage Spec		7	Core entity, required attributes, dependent entities, required attributes of dependent entities, all attributes of the core entity, all attributes of dependent entities.

