

**Billing to Cash Collection Project**

**Interface Detail Design Document**

*Development ID I002 – Product & Pricing Loader*

*IB Interfaces: SAP to Siebel CRM*

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# Approvals

The individuals listed below will be required to review and approve this document.

|  |  |  |  |
| --- | --- | --- | --- |
| Role | Name | Signature | Date |
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# Review List

|  |  |
| --- | --- |
| Name | Position |
|  |  |

# Related Documentation

| Ref | Title | Author | Version |
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| I002 | Products & Pricing | Michael Svensson | 0.2 |
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# Glossary

| Abbreviation | Definition |
| --- | --- |
| CCRM | Commerce and Customer Relationship Management |
| EAI | Enterprise Application Integration |
| B2CC | Bill To Cash Collection |
| SAP | SAP System |

# Introduction

##### **Document Context**

This document is one of a set of Interface Definition Documents providing the definition and High Level Design of the interfaces required for the SAP to Siebel CRM inbound interface that will enable the Products & Pricing, which will ultimately be driven by the SAP system.

##### **Document Structure**

This document describes about the requirements of an interface in terms of scope, functionality and characteristics. This document focus on what the interface does from an end-to-end perspective. Also covers the design of interface and the technical integration implementation.

##### **Scope**

The scope of this interface is limited to providing a middleware interface layer between SAP and SIEBEL systems. To provide integrity between two systems SAP and SIEBEL for Products and Pricing Data.

The Product and Pricing request from SAP will be propagated to SIEBEL and will not use any business process transformations to the messages.

This interface servers only to publish the Product and Pricing information from SAP to SIEBEL.

##### **Out of Scope**

* NA -

##### **Assumptions**

SAP will be a single point of entry to propagate Products Pricing data to SIEBEL.

No business validations or logic will be included in the EAI layer as per the design architecture.

# Products and Pricing

##### **Interface Definition**

* 1. Interface Purpose

The purpose of this interface is to allow data synchronization between SAP and SIEBEL systems for Products and Pricing.

Context

The transfer of data from SAP to SIEBEL for Products and Pricing is to keep the data in sync between SAP and SIEBEL systems. All the data with the status set as VETTED will be ready to be pushed from staging tables to SIEBEL systems.

* 1. Functional View



* 1. Interface Characteristics

ESB Component: SAPPLI\_ReceieveRequest: SAP pushes the Products and Pricing data to EAI and transforms the data into a canonical form.

BPEL Component: CCRMPLI\_EnqueueRequest: EAI then transforms the data from canonical form to target system schema and propagates the data to the SIEBEL system.

##### **Interface Design**

* 1. High Level Interface Design



* 1. Overview
  2. Data Definitions

Latest versions of the XML schemas for the messages used in the interface are stored in the Reuters Developer Network Subversion repository (https://int.thomsonreuters.com) project called sami (https://sami.cdt.int.thomsonreuters.com). The definitions for this interface can be found in subversion at:

https://sami.cdt.int.thomsonreuters.com/svn/eai\_eai/branches/6.1/design/EAI1.0/Interfaces

##### **Interface Design Components**

|  |  |  |
| --- | --- | --- |
| **Module Name/Method** | **Module Type** | **Existing/New** |
| SAPPLI\_ReceieveRequest | ESB Component | New ESB Component |
| CCRMPLI\_EnqueueRequest | BPEL Component | New BPEL Component |

1. SAPPLI\_ReceieveRequest

* **Purpose**

This ESB component is then exposed as a webservice and the end point URL is shared with the SAP system.

SAP system then invokes this service and triggers the message propagation from SAP to EAI layer.

* **Program Logic**

**AS-IS Process:**

**--- NA ---**

* + **TO-BE:**

SAPPLI\_ReceieveRequest acts as the endpoint service between EAI and SAP system. The component will pull the data from SAP to the EAI environment.

* **DVM**

---NA--

* **Partner links**

**CCRMPLI\_EnqueueRequest. Wsdl**

**EAI.SRV.EXT.SAP.70\_ReceiveProductPricingFromSAP.wsdl**

1. CCRMPLI\_EnqueueRequest

* **Purpose**

Receives products and pricing data from the SAPPLI\_ReceieveRequest and enqueues the data into the multiple environments of the SIEBELs MQ Server.

Appends logical transformations and business logic if any needed.

* **Program Logic:**
* The process receives a message of the <<In-out Schemas for products and pricing to be defined>>.
* Transformations from the canonical to target schemas and field level validations will be done.
* The data is then propagated to multiple Queues (two queues) using a MQ adapter in a parallel flow process.
* **Data Mapping (Transformations)**
* TransSAPPLItoEAI.xsl
* TransEAItoSIEBELHQ.xsl
* TransEAI206toSIEBELPME.xsl
* **DVM:**

--- NA --

* **Partner links:**

--- EnqueueHQProducts.WSDL ---

--- EnqueuePMEProducts.WSDL ---

* **Exception Handling:**

All the scope in SAP\_ProductDispatcher catches all types exceptions and throws the fault message.

RemoteFault:

For all the remote fault messages captured at the catch block, the relevant message will be captured and set as Title to the faulted instance..

RuntimeFault:

For all the runtime fault messages captured at the catch block, the relevant message will be captured and set as Title to the faulted instance..

BindFault:

For all the bind fault messages captured at the catch block, the relevant message will be captured and set as Title to the faulted instance.

# Developer Notes

##### **Code management**

For Code management and usage of subversion refer the document.

##### **Deployment Process:**

The deployment process for BPEL, ESB or web services components and as well as for any other deployments like DB Scripts, Business rules configurations: refer EAI- Build and Deployment Process.doc in

https://sami-crm6-eai.reutersdev.net/svn/sami-crm6-eai/trunk/dev/EAI-CRM61/R2releases/BuildDocs folder in SVN.

# Mapping Sheet



# Issues/Workarounds:

|  |  |  |  |
| --- | --- | --- | --- |
| S.No | Summary | Status | Assigned to |
| 1 | Siebel CRM Schemas | Closed | CRM team |
| 2 | SAP WSDLs | Closed | SAP Team |