

Next time you watch Superbowl, think Advanced Pricing!

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Abstract

Programming content expenses for various content providers such as CNN, HBO, Showtime, etc. is the largest components of service costs for cable companies. Content providers (vendors) are paid based on complex pricing contracts that use a variety of business metrics, such as number of subscribers, market penetration, market segment, carriage channel, bundling with other channels, proximity to other channels, service types, special events (such as Olympics) etc., to determine programming cost that are owed to content vendors.

Essentially these programming contracts are complex procurement pricing agreement with various vendors. This white paper describes implementation of complex procurement pricing agreements using the newly delivered integration between Purchasing and Advanced Pricing modules.

Executive Summary

Mediacom is the nation's eighth largest cable television company based on basic subscribers, and among the leading cable operators focused on serving the smaller cities and towns in the United States. Its cable systems pass an estimated 2.8 million homes and served 1.4 million basic video subscribers in 23 states. Programming content expenses for various content providers such as CNN, HBO, Showtime, etc. is the largest components of service costs for Mediacom.

A critical part of cable provider's future success relies on how well it can evaluate programming costs and leverage that information to build the most-compelling collections of services. Content providers (vendors) are paid based on complex pricing contracts that use a variety of business metrics to determine programming cost that are owed to content vendors. The following lists some of these metrics that needed to be addressed.

- Subscribers Count by Service Package and franchise
- Basic Subscriber Count by Franchise
- Channel Lineup for each franchise
- Service Family for each service (for example CNN service family includes CNN, Headline News, and CNN en espanol)
- Digital vs. Analog Sub breakout for each franchise
- Zone / Region assignment for franchise
- Special Promotional Agreements

Clearly with base PO functionality which supports flat rate or volume discounts (quantity discounts) only cannot support complex pricing agreements such as these. However, with the newly released integration with Advance Pricing, it becomes a much more attractive option to look at.

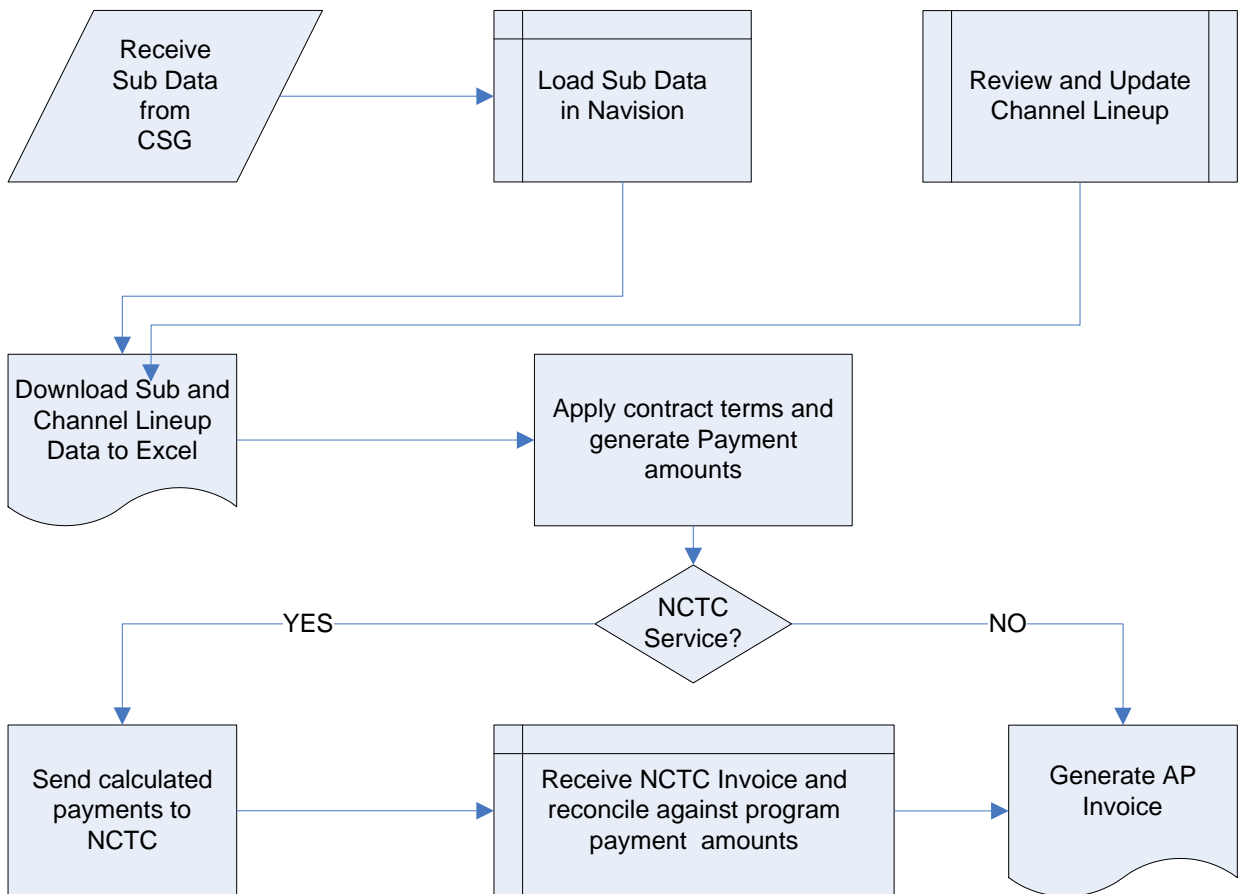
This white paper describes Purchasing and Advanced Pricing integration (and its limitations) and how we modeled complex pricing agreements using standard functionality.

As-is Process

Mediacom was using Navision as the core financial system. Most of the programming calculations were offline and took approx 3 FTE to complete on a monthly basis. The company had grown substantially since Navision implementation and Navision has started to become a bottleneck in monthly processing. Since Oracle EBS is the de-facto standard in cable industry, Mediacom selected Oracle EBS 11.5.10 to replace Navision.

As part of the financials implementation Mediacom looking at significantly automating programming payment processing to achieve better control and more manageability. The goal was to design a process that was scalable, to support increase in processing volume, and adaptable, to changing business landscape. It was expected that efficiencies achieved will allow existing staff to dedicate more time to value added tasks.

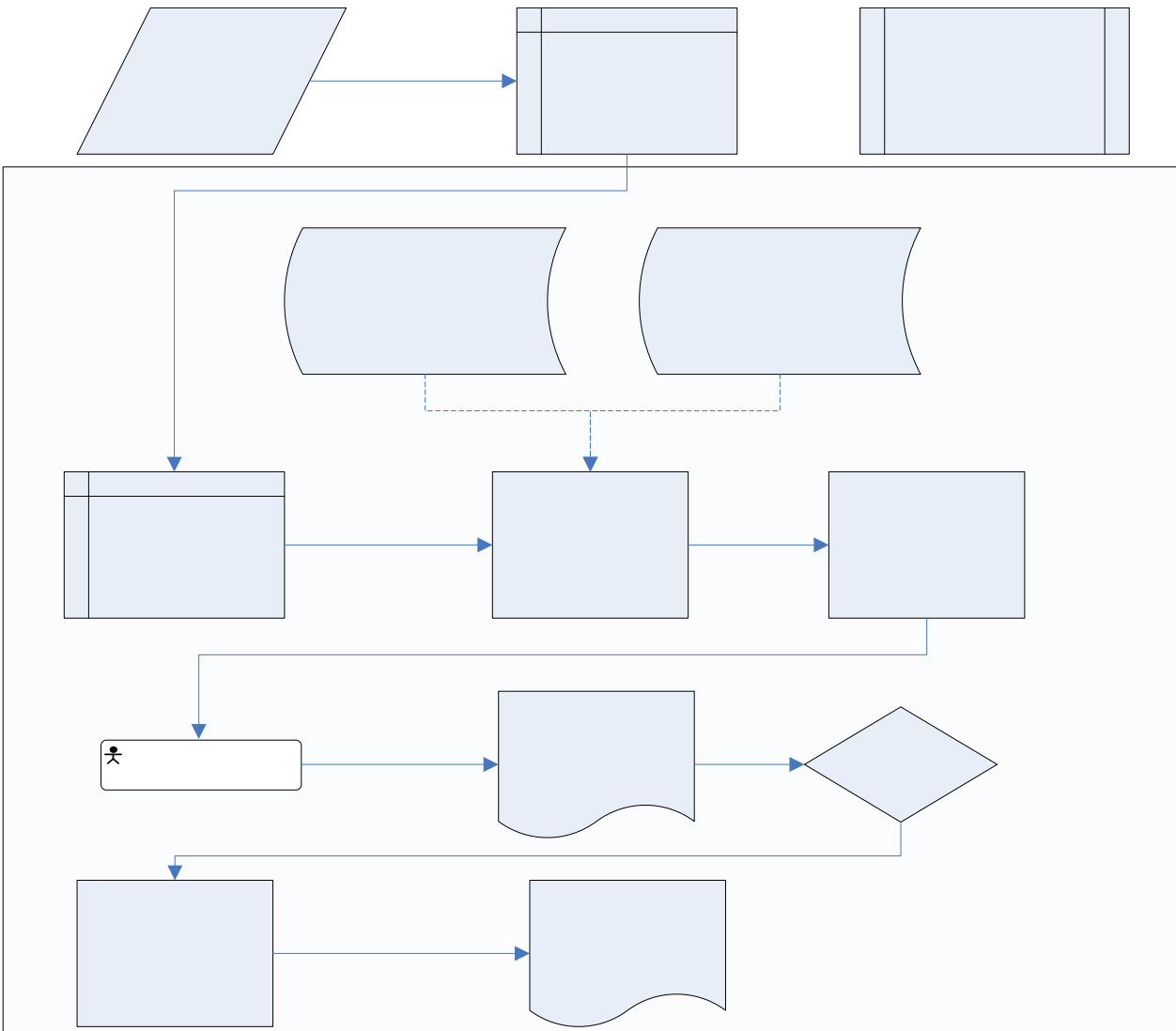
The following diagram shows high level process flow for the programming payment. In the diagram below, Sub stands for "Subscriber." CSG is the third party order entry and billing system used for cable subscribers. National Cable Television Cooperative is a programming buying cooperative representing approximately 1100 cable operators.



Implemented Process

The following diagram shows the proposed process with PO and QP integration. The processes within the shaded portion are part of base EBS functionality and the processes outside the shaded portions are staging tables in a custom schema.

The unique nature of royalty payment process is that supplier does not really have the information necessary to generate an invoice. As a result, Mediacom generates the invoice is generated internally for payment. The calculation output is sent to the suppliers as supporting documents for payments.



Receive Sub Data from CSG

Conceptual Data Model

The following describes the conceptual data model for key configuration elements that need to be addressed for this process.

- > Content Provider = Vendor
- > Service = Item (Bulk and Residential to be modeled as item revision)
- > Subscriber Count = Item Quantities
- > Payment Rate = Unit Price
- > Headend = Ship-to-location
- > Pricing Agreement = Price List

Other Variables used to determine price are setup as appropriate pricing attribute, formulas, qualifiers, and modifiers.

Purchasing – Advance Pricing Integration Setup

The following profile options are required to enable purchasing – advance pricing integration. Some of these setups were different from the ones recommended on various metalink notes. Based on system and user testing, these settings were found to be most effective for Mediacom purposes.

QP: Licensed for Product

This profile option identifies which Oracle software application can use Oracle Pricing. This profile option was set to “Purchasing” at the application level.

QP: Pricing Transaction Entity

This profile option indicates the current Pricing Transaction Entity (PTE) in use. Only those contexts and attributes assigned to the current Pricing Transaction Entity will be available in the list of values on the setup forms. Likewise, querying up setup data for price list lines, modifiers, and qualifiers, etc. will cause the description to be shown only for those contexts and attributes that are assigned to the current Pricing Transaction Entity.

This profile was set to “Procurement” at application level.

QP: Unit Price Precision Type

This profile option determines the Round To value that is defaulted on the price list. The rounding factor is limited by the number of positions allowed in the standard or extended precision format of the price list currency.

This was set to “Extended” to enable unit price rounding to five (5) digits after decimal point. Most Mediacom contracts calculation require using unit price that are four (4) digits after decimal point.

Other Mandatory Setup

Oracle Purchasing calls advanced pricing engine only if a contract purchase order is used as sourcing document. Therefore, a contract purchase order was created for each supplier along with appropriate ASL and sourcing rules so that items are sourced correctly during requisition import.

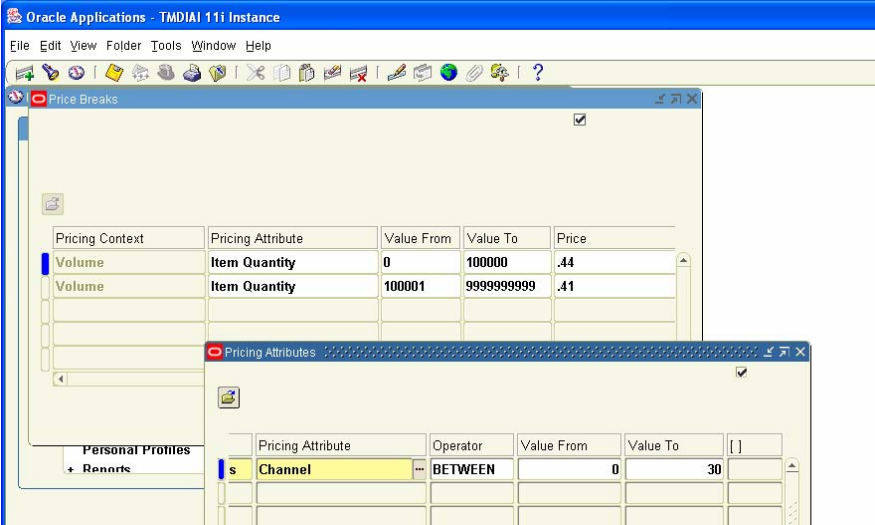
Example Contracts Setup

Tiered rate with channel placement discount

A sample contract of this type is summarized below.

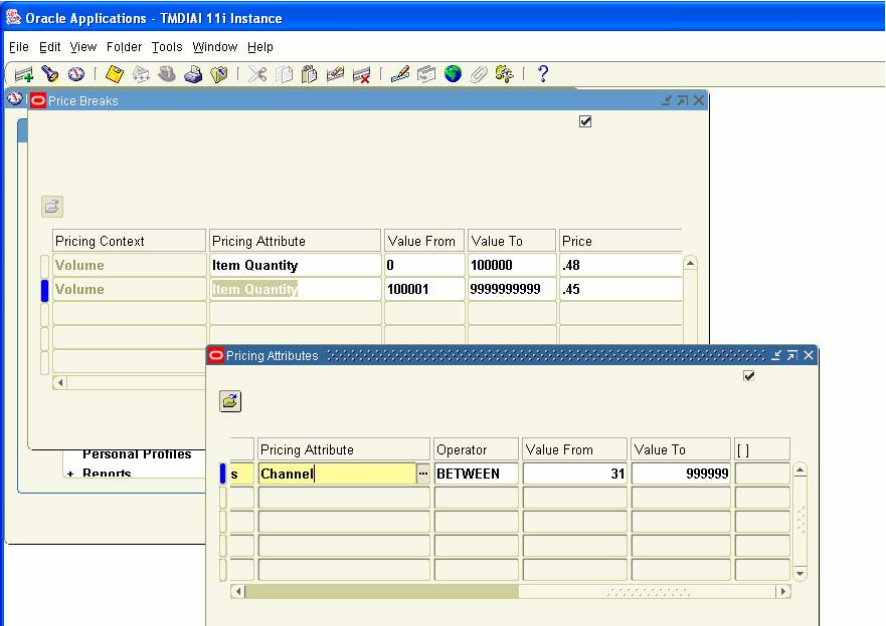
If service is carried on channel number 30 and below, the following rate structure applies.

First 100,000 subscriber	\$ 0.44 per sub
All sub > 100,000	\$ 0.41 per sub



If service is carried on channel number 31 and above, the following rate structure applies.

First 100,000 subscriber	\$ 0.48 per sub
All sub > 100,000	\$ 0.45 per sub



Flat rate with a guaranteed minimum

A sample contract of this type is summarized below.

\$ 0.55 per sub subject to a minimum payment of \$100,000. No maximum limit.

The screenshot displays two Oracle Applications windows. The top window, titled "Advanced Pricing - Price Lists", shows the configuration for a "Programming Price List". It is set to "Active" and "USD" currency, with a "Round To" value of "-2". The effective dates are "13-OCT-2006". The "List Lines" section shows a "Price List Line" with a "Unit Price" of ".55" and a "Dynamic Formula" of "Min 100000".

The bottom window, titled "Advanced Pricing - Pricing Formulas", shows the configuration for a formula named "Min 100000". The formula is "Greatest(1,2/3)". The "Formula Lines" section shows the following configuration:

Formula Type	Pricing Attribute Context	Pricing Attribute	Component	Step	Reqd Flag
Price List Line			PROGRAMMING F	1	<input type="checkbox"/>
Numeric Constant			100000	2	<input type="checkbox"/>
Pricing Attribute	Volume	Item Quantity		3	<input type="checkbox"/>

Conclusions

Procurement end of pricing contract has always been as complex as the ordering end, and as a result, lack of ability to implement complex pricing agreement using seeded functionality has been a major a limitation of the Oracle Purchasing product. Ability to call advanced pricing engine for purchasing is an important milestone in the maturity of Oracle purchasing product. Several limitations still continue to exist in the product and we hope that Oracle will continue to add new functionality available via this integration. Release 12 promises to enhance this integration to blanket purchase orders and Oracle will be well advised to back-port this functionality to release 11.5.10.2. In addition, in spite of the available workaround, limitation around global data structure may limit usage in certain organizations.

About Authors

Glenn is Senior Director of Programming at Mediacom. In this role, Glenn is responsible for managing and negotiating contracts and pricing agreements with various service providers ("programmers" as they are called in cable business). Glenn served as process owner and subject matter expert for this engagement. Glenn can be reached at ggoldmith@mediacomcc.com.

Abhishek is a partner with Ideametrics. He is specialist in cable, and utility industries. He has advised various clients on design of their capex, procurement, and asset management processes. Abhishek served as solution designer and project manager for this project. Abhishek can be reached at achandan@ideametrics.com.