

Appendix 1

Valuation Methodologies

1 Overview

The most reliable evidence as to the value of a business is the price at which the business or a comparable business has been bought and sold in an arm's length transaction. In the absence of direct market evidence of value, estimates of value are made using methodologies that infer value from other available evidence. There are four primary valuation methodologies that are commonly used for valuing businesses:

- capitalisation of earnings or cash flows;
- discounting of projected cash flows;
- industry rules of thumb; and
- estimation of the aggregate proceeds from an orderly realisation of assets.

Each of these valuation methodologies has application in different circumstances. The primary criterion for determining which methodology is appropriate is the actual practice adopted by purchasers of the type of business involved.

2 Discounted Cash Flow

Discounting of projected cash flows has a strong theoretical basis. It is the most commonly used method for valuation in a number of industries, including resources, and for the valuation of start-up projects where earnings during the first few years can be negative but it is also widely used in the valuation of established industrial businesses. Discounted cash flow ("DCF") valuations involve calculating the net present value of projected cash flows. This methodology is able to explicitly capture depleting resources, development projects and fixed terms contracts (which are typical in the resources sector), the effect of a turnaround in the business, the ramp up to maturity or significant changes expected in capital expenditure patterns. The cash flows are discounted using a discount rate which reflects the risk associated with the cash flow stream.

Considerable judgement is required in estimating future cash flows and it is generally necessary to place great reliance on medium to long term projections prepared by management. The discount rate is also not an observable number and must be inferred from other data (usually only historical). None of this data is particularly reliable so estimates of the discount rate necessarily involve a substantial element of judgement. In addition, even where cash flow forecasts are available, the terminal or continuing value is usually a high proportion of value. Accordingly, the multiple used in assessing this terminal value becomes the critical determinant in the valuation (i.e. it is a "de facto" cash flow capitalisation valuation). The net present value is typically extremely sensitive to relatively small changes in underlying assumptions, few of which are capable of being predicted with accuracy, particularly beyond the first two or three years. The arbitrary assumptions that need to be made and the width of any value range mean the results are often not meaningful or reliable. Notwithstanding these limitations, discounted cash flow valuations are commonly used and can at least play a role in providing a check on alternative methodologies, not least because explicit and relatively detailed assumptions as to expected future performance need to be made.

Financial models for the business operations of Sky Network Television Limited ("Sky TV") and Vodafone New Zealand Limited ("Vodafone NZ") have been developed by Grant Samuel based on models prepared respectively by Sky TV and Vodafone NZ management. Grant Samuel has made adjustments to the corporate models to reflect its judgement on certain matters. The financial models allow the key drivers of revenues, costs and capital expenditure to be modelled. The models are based on a number of assumptions about future events and are subject to significant uncertainty and contingencies, many of which are outside the control of Sky TV or Vodafone NZ. Where relevant, a number of different scenarios have been developed and analysed to reflect the impact on value of various key assumptions relating to customer numbers, pricing, operating cost, capital expenditure and other factors. However, these sensitivities do not, and do not purport to, represent the range of potential value outcomes for Sky TV's or Vodafone NZ's business operations. They are simply theoretical indicators of the sensitivity of the net present values derived from the DCF analysis.

The financial models are discussed in more detail in Sections 6 and 8 of this report.

3 Capitalisation of Earnings or Cash Flows

Capitalisation of earnings or cash flows is the most commonly used method for valuation of industrial businesses. This methodology is most appropriate for industrial businesses with a substantial operating history and a consistent earnings trend that is sufficiently stable to be indicative of ongoing earnings potential. This methodology is not particularly suitable for start-up businesses, businesses with an erratic earnings pattern or businesses that have unusual capital expenditure requirements. This methodology involves capitalising the earnings or cash flows of a business at a multiple that reflects the risks of the business and the stream of income that it generates. These multiples can be applied to a number of different earnings or cash flow measures including EBITDA, EBIT (or EBITA) or NPAT. These are referred to respectively as EBITDA multiples, EBIT multiples (or EBITA multiples) and price earnings multiples. Price earnings multiples are commonly used in the context of the sharemarket. EBITDA and EBIT (or EBITA) multiples are more commonly used in valuing whole businesses for acquisition purposes where gearing is in the control of the acquirer but are also used extensively in sharemarket analysis.

Where an ongoing business with relatively stable and predictable cash flows is being valued, Grant Samuel uses capitalised earnings or operating cash flows as a primary reference point.

Application of this valuation methodology involves:

- estimation of earnings or cash flow levels that a purchaser would utilise for valuation purposes having regard to historical and forecast operating results, non-recurring items of income and expenditure and known factors likely to impact on operating performance; and
- consideration of an appropriate capitalisation multiple having regard to the market rating of comparable businesses, the extent and nature of competition, the time period of earnings used, the quality of earnings, growth prospects and relative business risk.

While EBITDA multiples are commonly used benchmarks they are an incomplete measure of cash flow. The appropriate multiple is affected by, among other things, the level of capital expenditure (and working capital investment) relative to EBITDA. In this respect:

- EBIT (or EBITA) multiples can in some circumstances be a better guide because (assuming depreciation is a reasonable proxy for capital expenditure) they effectively adjust for relative capital intensity and present a better approximation of free cash flow. However, capital expenditure is lumpy and depreciation expense may not be a reliable indicator of ongoing capital expenditure. In addition, there can be differences between companies in the basis of calculation of depreciation. Where this is an issue, another metric that can be useful is EBITDA-Capital Expenditure (sometimes referred to as Operating Cash Flow); and
- businesses that generate higher EBITDA margins than their peer group companies will, all other things being equal, warrant higher EBITDA multiples because free cash flow will, in relative terms, be higher (as capital expenditure is a smaller proportion of earnings).

In determining values for Sky TV's and Vodafone NZ's business operations, Grant Samuel has placed particular reliance on the EBITDA and EBITA multiples (as well as Operating Cash Flow multiples) implied by the valuation ranges compared to the same multiples derived from an analysis of comparable listed companies and transactions involving comparable businesses.

Determination of the appropriate earnings multiple is usually the most judgemental element of a valuation. Definitive or even indicative offers for a particular asset or business can provide the most reliable support for selection of an appropriate earnings multiple. In the absence of meaningful offers it is necessary to infer the appropriate multiple from other evidence.

The primary approach used by valuers is to determine the multiple that other buyers have been prepared to pay for similar businesses in the recent past. However, each transaction will be the product of a unique combination of factors, including:

- economic factors (e.g. economic growth, inflation, interest rates) affecting the markets in which the company operates;

- strategic attractions of the business - its particular strengths and weaknesses, market position of the business, strength of competition and barriers to entry;
- rationalisation or synergy benefits available to the acquirer;
- the structural and regulatory framework;
- investment and sharemarket conditions at the time; and
- the number of competing buyers for a business.

A pattern may emerge from transactions involving similar businesses with sales typically taking place at prices corresponding to earnings multiples within a particular range. While averages or medians can be determined it is not appropriate to simply apply such measures to the business being valued. The range will generally reflect the growth prospects and risks of those businesses. Mature, low growth businesses will, in the absence of other factors, attract lower multiples than those businesses with potential for significant growth in earnings. The most important part of valuation is to evaluate the attributes of the specific business being valued and to distinguish it from its peers so as to form a judgement as to where on the spectrum it appropriately belongs.

An alternative approach in valuing businesses is to review the multiples at which shares in listed companies in the same industry sector trade on the sharemarket. This gives an indication of the price levels at which portfolio investors are prepared to invest in these businesses. Share prices reflect trades in small parcels of shares (portfolio interests) rather than whole companies and it is necessary to adjust for this factor. To convert sharemarket data to meaningful information on the valuation of companies as a whole, it is market practice to add a “premium for control” to allow for the premium which is normally paid to obtain control through a takeover offer. This premium is typically in the range 20-35%.

The premium for control paid in takeovers is observable but caution must be exercised in assessing the value of a company or business based on the market rating of comparable companies or businesses. The premium for control is an outcome of the valuation process, not a determinant of value. Premiums are paid for reasons that vary from case to case and may be substantial due to synergy or other benefits available to the acquirer. In other situations premiums may be minimal or even zero. It is inappropriate to apply an average premium of 20-35% without having regard to the circumstances of each case. In some situations there is no premium. There are transactions where no corporate buyer is prepared to pay a price in excess of the prices paid by institutional investors through an initial public offering.

Acquisitions of listed companies in different countries can be analysed for comparative purposes, but it is necessary to give consideration to differences in overall sharemarket levels and ratings between countries, economic factors (economic growth, inflation, interest rates) and market structures (competition etc.) and the regulatory framework. It is not appropriate to adjust multiples in a mechanistic way for differences in interest rates or sharemarket levels.

The analysis of comparable transactions and sharemarket prices for comparable companies will not always lead to an obvious conclusion as to which multiple or range of multiples will apply. There will often be a wide spread of multiples and the application of judgement becomes critical. Moreover, it is necessary to consider the particular attributes of the business being valued and decide whether it warrants a higher or lower multiple than the comparable companies. This assessment is essentially a judgement.

4 Industry Rules of Thumb

Industry rules of thumb are commonly used in some industries. These are generally used as a “cross check” of the result determined by a capitalised earnings valuation or by discounting cash flows. While they are only used as a cross check in most cases, industry rules of thumb can be the primary basis on which buyers determine prices in some industries. Value per subscriber or customer is a common metric in the pay television and telecommunications industries. However, it should be recognised that rules of thumb are usually relatively crude and prone to misinterpretation.

5 Net Assets/Realisation of Assets

Valuations based on an estimate of the aggregate proceeds from an orderly realisation of assets are commonly applied to businesses that are not going concerns. They effectively reflect liquidation values

and typically attribute no value to any goodwill associated with ongoing trading. Such an approach is not appropriate for Sky TV or Vodafone NZ.