

Webinar Title: MPAP: A Two-Year Perspective

Presented by: Jeffrey Tarbell, ASA | Director | Houlihan Lokey

Webinar Description: Two years have quickly passed since The Appraisal Foundation issued VFR Valuation Advisory #3 -- better known as "The Measurement and Application of Market Participant Acquisition Premiums" or MPAP. Has anything changed? And if so, what, how, and why? This webinar will provide participants with a refresher on core MPAP principles, the results of a peer survey on the impact of MPAP on various aspects of valuation practice, and a viewpoint on the measurement and application of "control premiums" moving forward.

Learning Outcomes:

Upon webinar completion, the participant will:

- Assess whether and why a control premium, or MPAP, is applicable to a particular subject interest;
- Identify situations where control premiums are appropriate -- and where they are not appropriate;
- Interpret where their own practice is consistent or inconsistent with their peers; and
- Develop valuation opinions consistent with modern theory regarding minority and control values.

WEBINAR SURVEY LINK: <https://www.surveymonkey.com/r/KR6DL32>

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MPAP: A Two-Year Perspective

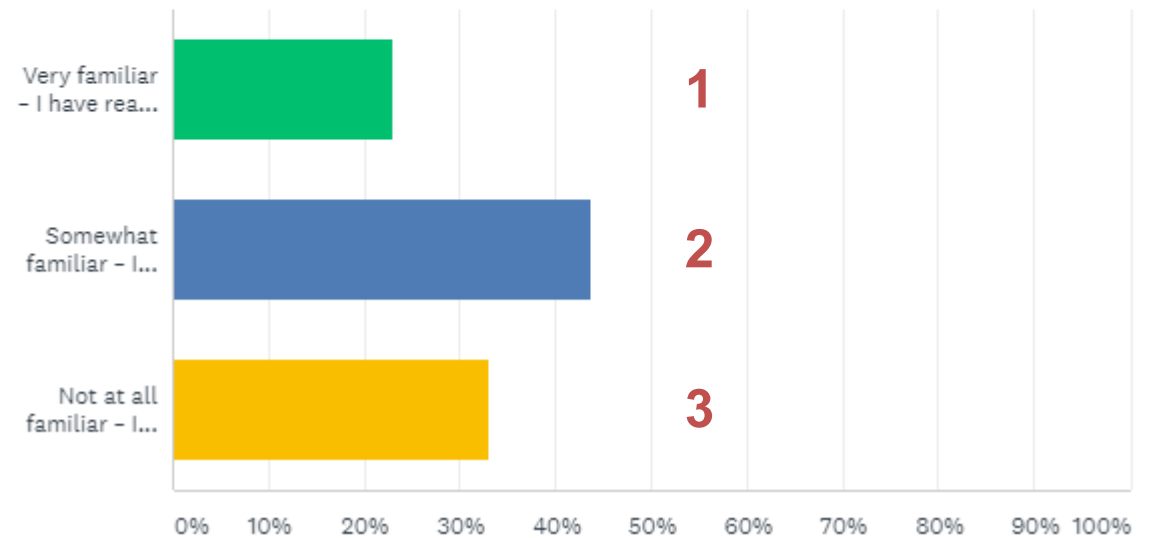
Jeffrey S. Tarbell, ASA, CFA
Houlihan Lokey
February 21, 2020

Introduction

- The objective of this presentation is to elevate your understanding of MPAP
- Move those in Group 3 up to Group 2
- Move those in Group 2 up to Group 1

How familiar are you with "Valuations in Financial Reporting Valuation Advisory 3: The Measurement and Application of Market Participant Acquisition Premiums" (a.k.a. the MPAP advisory) issued in 2017 by The Appraisal Foundation?

Answered: 178 Skipped: 0





A Short Refresher on the MPAP Advisory

Evolution of the Control Premium

“[A control premium] based on an arbitrary percentage determined by a ‘rule-of-thumb’ would not appear to be well reasoned”

Speech by Robert Fox of the SEC (2008)

“In any case, it is obvious that, given the current state of the debate, one must be extremely cautious about applying a control premium to public market values to determine a control level of value”

Business Valuation Discounts and Premiums, Pratt (2001) p. 40

“Valuation analysts who use the guideline public-company valuation method and then automatically tack on a percentage ‘control premium’ ... had better reconsider their methodology”

Valuing a Business, 4th ed., Pratt (2000) p. 357

“[The guideline company method] usually requires some adjustment from the publicly traded minority stock value equivalent to account for control”

Valuing a Business, 3rd ed., Pratt (1996) p. 210

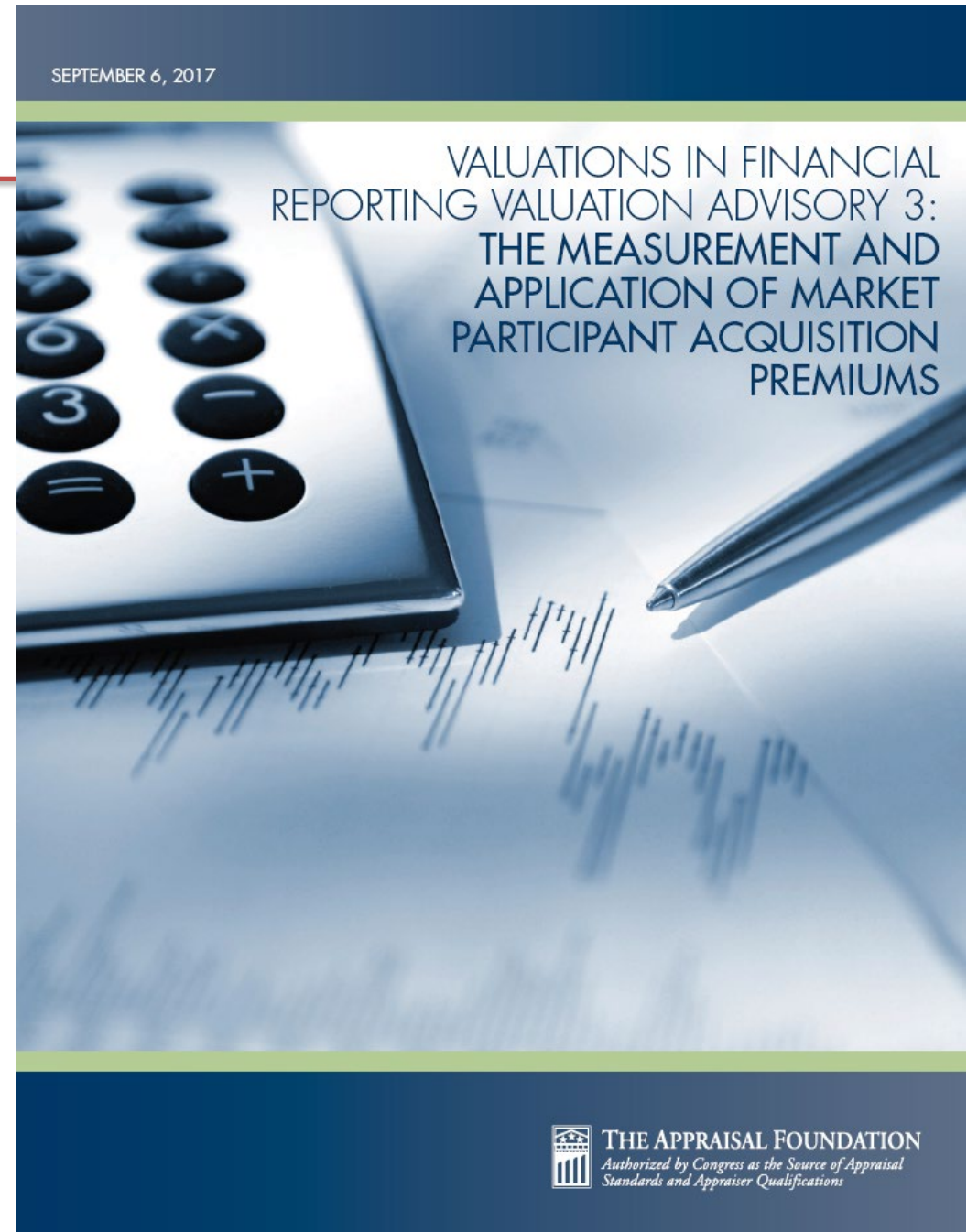
“If public stocks always trade at a discount to their controlling interest value, then why aren’t they taken over?”

Control Premiums and Minority Interest Discounts In Private Companies, Nath (1990) p. 2

Polling Question #1

Valuation Advisory #3

- Authored by The Appraisal Foundation's Working Group on Control Premia
- First draft – April 2013
- Second draft – September 2015
- Published – September 2017
- Non-authoritative guidance
- Targeted to the appraisers involved in the measurement of fair value for financial reporting purposes



Core Concepts of the MPAP Advisory

- Nath was right; what we've long called "control premiums" are likely something else
- Control prices reflect the expected economic benefits to the acquirer
- Quantification of such benefits typically focuses on:
 - Enhanced cash flows (synergies)
 - Lower cost of capital (risk)

"It has become widely accepted that the market evidence supplied by comparing the acquisition price to the publicly traded price does not represent a premium for conceptual control but, rather, represents a premium linked to actual changes that can be made by exercising that control. Control, and whether one has it, is not really the focal point. What matters is that, after an acquisition, the acquired company is now under different management/stewardship. A price higher than the publicly traded price might be reasonable if the new management and/or combined entity expect(s) improved cash flow or growth or reduced risk. If no improvements or risk reduction could reasonably be expected, there may be little ability for an acquirer to pay a price higher than the publicly traded price and still generate a reasonable return on its investment. In such cases, the control value may approximate the publicly traded price."

Definitions of New Terms

- An **MPAP** is the difference between
 - the pro rata fair value of the subject controlling interest and
 - its Foundation Value
- For public companies, **Foundation Value** is the quoted market price for the company's shares
- For private companies, **Foundation Value** is measured with respect to the current stewardship of the entity
 - Contemplates that the prerogatives of control continue to reside with the existing controlling shareholder(s)
 - Often what is referred to as the pro rata marketable, non-controlling value

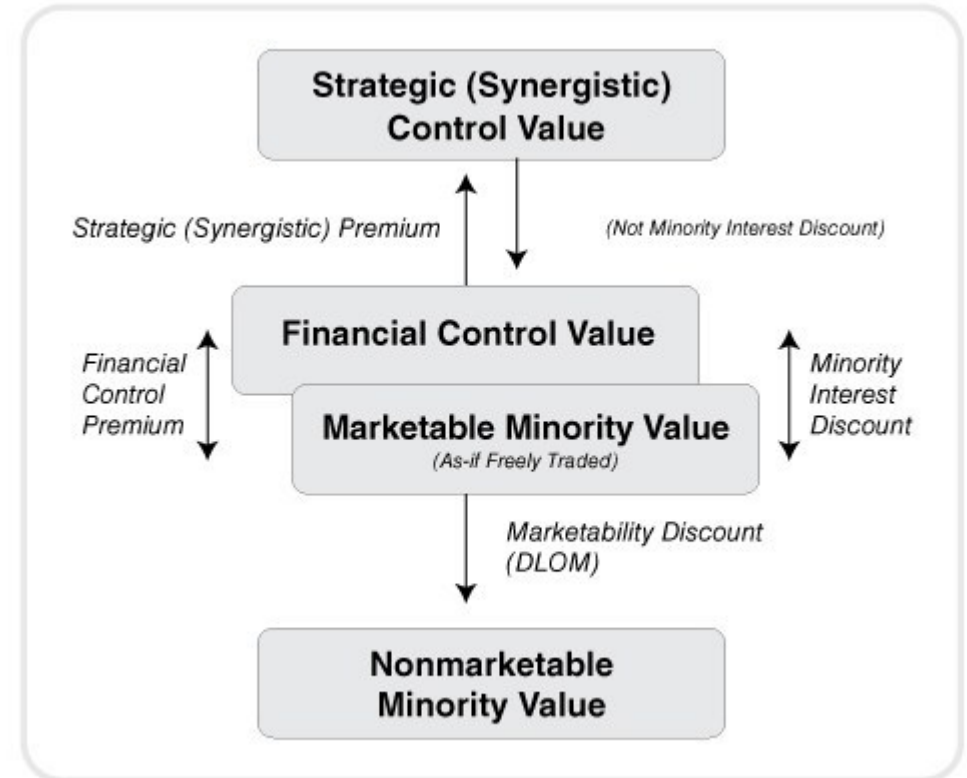
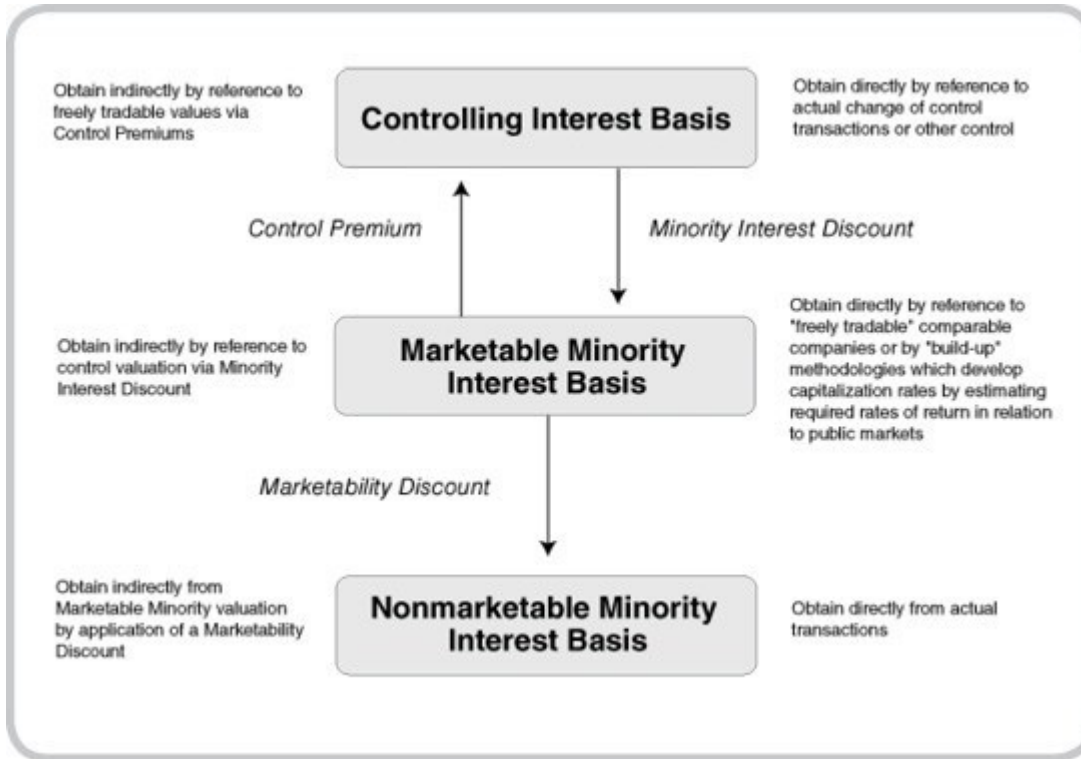
Factors to Consider When Quantifying MPAP

- Acquisition activity in the relevant industry
- Subject company's stage in life cycle
- Attributes of market participants
- Size of subject company relative to market participants
- Balance of information
- Subject company's capital structure
- Management's objectives
- Quality of management
- Regulatory factors
- Corporate bylaws and governing documents
- Transaction structure

An MPAP Should Not Be Automatic

- If no room for improvement, why would a rational investor pay a premium to market price?
- Consider a subject company that is believed to be:
 - Well managed
 - Optimally capitalized
 - Reporting operating margins in line with (or higher than) peers
- The opportunities for a control buyer to generate incremental economic benefits would seem limited
- Would an MPAP be appropriate in this situation? Why?

Are Charts Like These Still Useful?



This Version Seems a Bit More Nuanced

| Standard of Value | | Level of Value | Common Definitions and Notes |
|--------------------------------------|--|---|---|
| Fair Value / Investment Value | Typical Strata of Fair Value and Investment Value | Strategic Control Value | <p>The Strategic Control Level of Value is generally recognized using the standard of value referred to as Investment Value, which is defined as “the value to a particular investor based on individual investment requirements and expectations.”</p> <p>Accordingly, the Strategic Control Level of Value is not generally consistent with fair market value [adequate consideration], in that it considers the motivations of a specific buyer as opposed to a hypothetical buyer. In other words, the “strategic control premium” is generally not appropriate under the fair market value standard.</p> |
| | Fair Market Value | Financial Control Value | <p><i>Could be minimally differentiated based on individual stockholder characteristics</i></p> |
| | Marketable Minority Value | <p>“The power to direct the management and policies of a business”</p> <p>This definition covers the tactical and strategic aspects of control</p> <hr/> <p>Refers to the value of a non-controlling interest, or a minority interest that lacks control but enjoys the benefit of liquidity as if it were freely tradable in an active market</p> <p>Stock interests trading in the public equity markets are the prototypical example of a marketable minority interest</p> <hr/> <p>A minority interest that lacks “the ability to [be] quickly convert[ed] to cash at minimal cost”</p> <p>“An asset, business, business ownership interest, security, or intangible asset” that lacks the capability and ease of transfer or salability”</p> | |
| | Nonmarketable Minority Value | | |

Marketplace Perspective

- The market participant (a rational buyer) will pay no more than necessary to outbid the next most aggressive bidder for a given investment opportunity
- Bidder interest matters:
 - Where bidder interest is low, the market price is less likely to reflect significant MPAP benefit
- In no case is a market participant willing to pay an amount that exceeds the value of the maximum cash flows that can be generated through the business combination

Observed Premia Can Be Misleading

- In October 2019, LVMH announces bid to purchase TIF for EV of \$18.0 billion
- Pre-announcement, TIF's expected NTM EBITDA is \$1.073 billion, and TIF trades at 12.7x NTM EBITDA
- Offer implies a TTM EBITDA multiple of 16.8x
- Offered multiple is 32% above the trading multiple
- Perhaps LVMH believes TIF's EBITDA will be higher under its stewardship?
- If LVMH's adjusted NTM EBITDA were \$1.3 billion, the adjusted implied would be 13.9x, only 9.5% above the trading multiple



| (\$ in billions) | Public Market Perspective | Market Participant Perspective |
|------------------|---------------------------|--------------------------------|
| Enterprise Value | \$13.664 | \$18.074 |
| Forward EBITDA | \$1.073 | \$1.300 |
| Implied Multiple | 12.7x | 13.9x |

Source: Public information

Polling Question #2



Defining the Foundation Value

Alternative Definitions of Foundation Value

- The MPAP Advisory recommends using a Total Invested Capital (TIC) Foundation rather than an Equity Foundation to determine an MPAP
- In short, “the Working Group believes that the traditional method of calculating transaction premiums is potentially misleading”

“The Working Group concluded that the traditional method of calculating transaction premiums is potentially misleading. Specifically, the economic benefits realized through exercising the prerogatives of control enhance the fair value of the enterprise as a whole, not just the fair value of the equity.”

Further, expressing the MPAP as a percentage of the Equity Foundation distorts the comparability of the MPAP among companies with different capital structures.”

Example of Alternative MPAP Calculations

- As shown in the table at right, the dollar amount of the MPAP is \$1,000, whether viewed on a Foundation Value of Equity, TIC, or EV
- However, the indicated MPAP measured on a percentage basis differs
- Which of these is the most informative/useful?

\$ in millions

| | Marketable Minority Value | Control Value |
|---|---------------------------|---------------|
| Enterprise Value | \$5,000.0 | \$6,000.0 |
| + Cash | \$500.0 | \$500.0 |
| = Total Invested Capital | \$5,500.0 | \$6,500.0 |
| – Interest-Bearing Debt | \$1,500.0 | \$1,500.0 |
| = Equity Value | \$3,500.0 | \$4,500.0 |
| Indicated MPAP (Equity) | | 28.6% |
| Indicated MPAP (Enterprise Value) | | 20.0% |
| Indicated MPAP (Total Invested Capital) | | 18.2% |

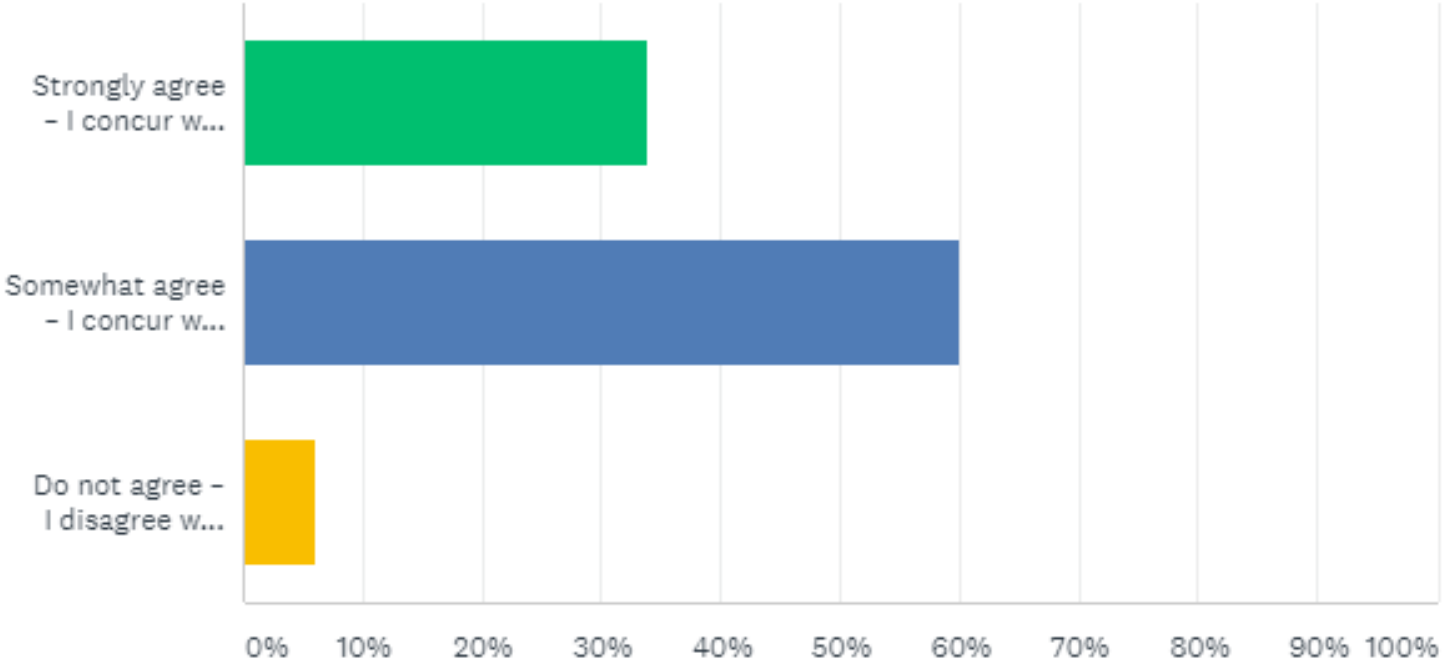


Remaining Poll Results

Poll Question #2

To what degree do you agree with the guidance expressed in the MPAP advisory?

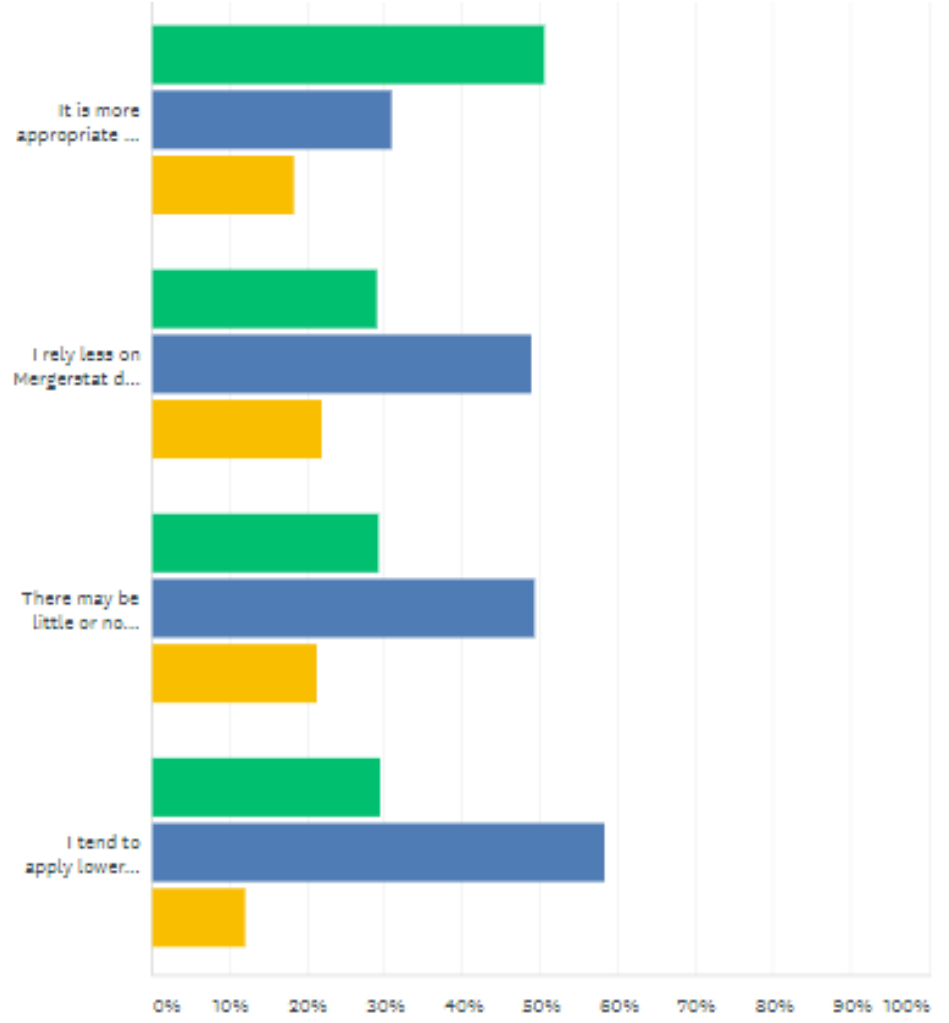
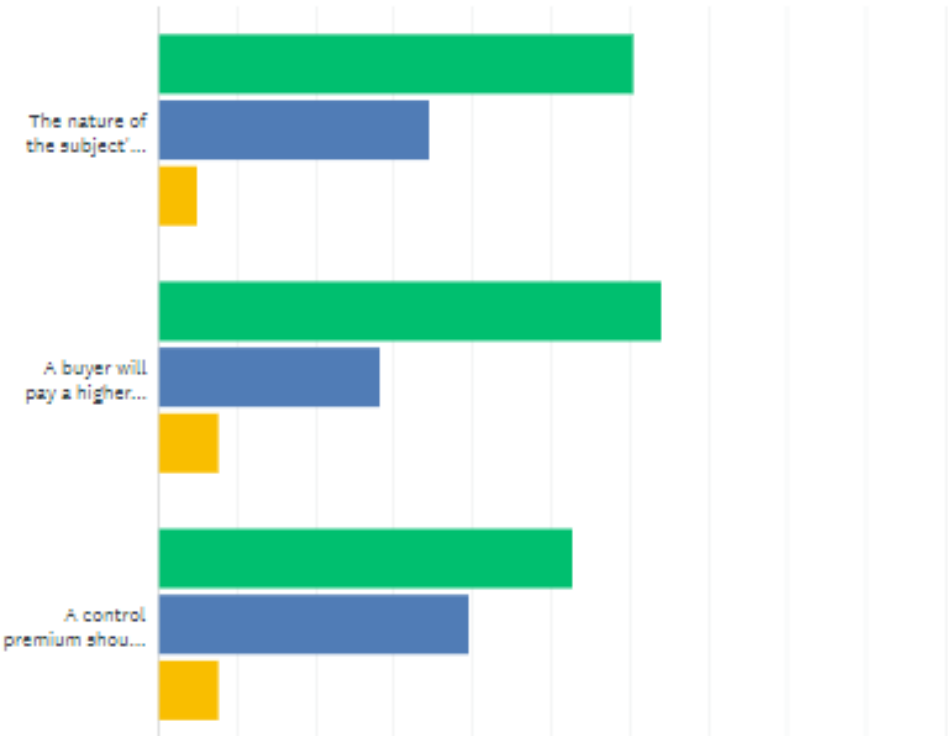
Answered: 115 Skipped: 63



Poll Question #3

For the following questions, please indicate your level of agreement with the following statements in the context of how your practice has or has not changed as a result of the MPAP Advisory guidance:

Answered: 143 Skipped: 35

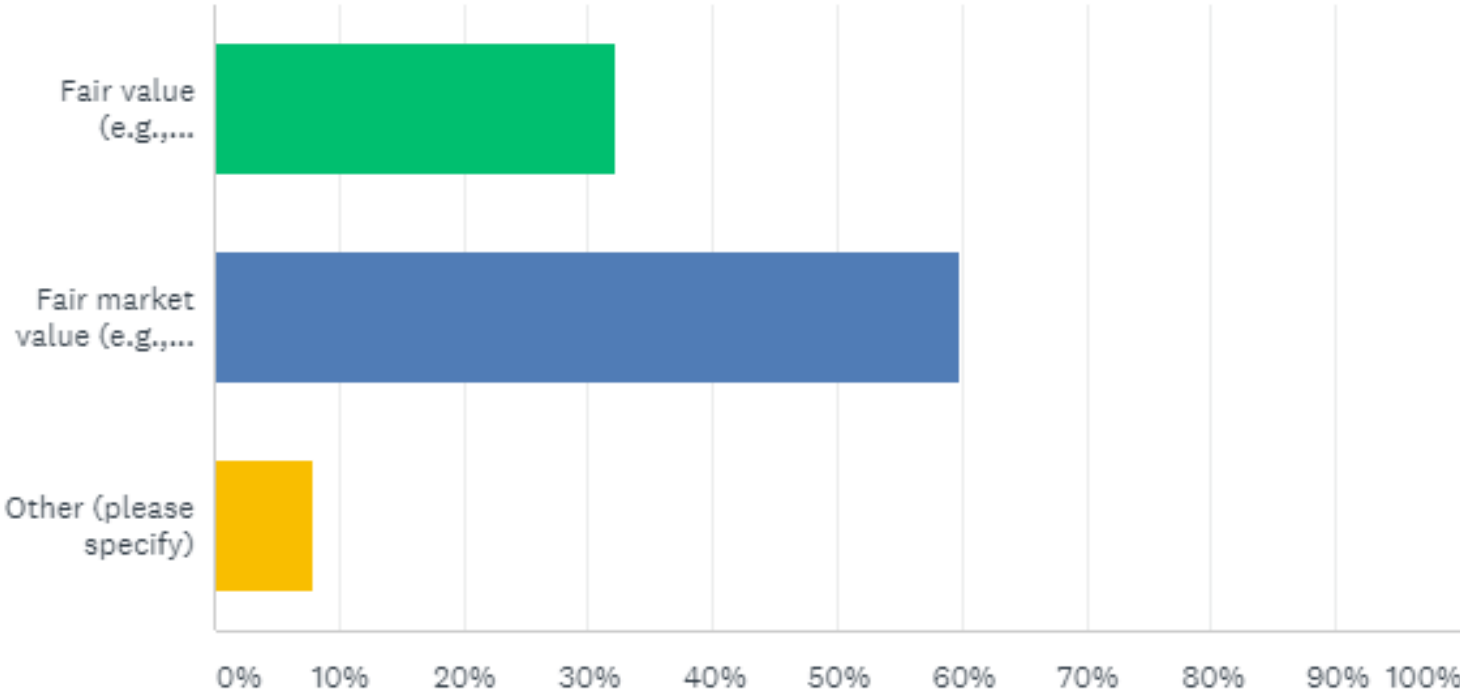


Strongly agree Somewhat agree Do not agree

Poll Question #4

My primary area of appraisal practice is?

Answered: 164 Skipped: 14



Key Points to Remember

1. The prerogatives of control have limited inherent value but are rather the means through which market participants implement strategies designed to generate economic benefits
2. MPAPs should be supported by reference to either enhanced cash flows or a lower required rate of return from the market participant perspective
3. The referenced economic benefits should be sufficient to provide market participants with an adequate return on the concluded fair value of the controlling interest
4. In many instances, such benefits will not be reliably identifiable, resulting in either no, or a small, premium
5. It is inconsistent with best practices to rely solely on benchmark premium data to evaluate the reasonableness of the MPAP in a fair value measurement
6. **MPAP should be a byproduct of the valuation process rather than an exogenous input**

Polling Question #3

Jeffrey S. Tarbell, ASA, CFA

- Mr. Tarbell is a member of Houlihan Lokey's Financial and Valuation Advisory business and has nearly three decades of experience providing valuation and financial opinions to private and publicly traded companies. He is Head of the firm's Estate and Gift Tax Valuation practice, Co-Head of the firm's Employee Stock Ownership Plan Valuation practice, and a member of the firm's Technical Standards Committee
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- Mr. Tarbell develops and teaches valuation content across the globe. He has testified in various legal forums, including state and federal courts, the United States Tax Court, a congressional hearing, and a Department of Labor panel as well as in arbitration, mediation, and deposition proceedings



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SEPTEMBER 6, 2017



VALUATIONS IN FINANCIAL
REPORTING VALUATION ADVISORY 3:
THE MEASUREMENT AND
APPLICATION OF MARKET
PARTICIPANT ACQUISITION
PREMIUMS



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VFR Valuation Advisory #3

The Measurement and Application of Market Participant Acquisition Premiums

This communication is for the purpose of issuing voluntary guidance on recognized valuation methods and techniques.

Date Issued: September 6, 2017

Application: Business Valuation, Intangible Assets

Background: In recent years there have been increased requirements in the identification and recognition of assets and liabilities measured at fair value in financial statements. These requirements, promulgated by the Financial Accounting Standards Board (FASB), include:

- Statement of Financial Accounting Standards No. 141(R), predecessor to Accounting Standards Codification (ASC) 805 *Business Combinations*; and
- FASB Statement No. 142, predecessor to ASC 350 *Intangibles - Goodwill and Other* (ASC 350) and Accounting Standards Update (ASU) 2011-08.

Moreover, there has been increased focus on fair value measurement since the FASB issued Statement No. 157 (predecessor to ASC 820 *Fair Value Measurement*) in 2006 and ASU 2011-04 in 2011.

Furthermore, the International Accounting Standards Board (IASB) has issued International Financial Reporting Standard (IFRS) 3 (revised) (IFRS 3R) *Business Combinations* (IFRS 3R) and *IFRS 13 Fair Value Measurement*, both of which are largely similar to the statements issued by the FASB.

Like ASC 350, International Accounting Standard 36 *Impairment of Assets* (IAS 36) includes the testing of goodwill for impairment. However, these standards are not converged, and the specific procedures of the goodwill impairment test are different. The measurements used to determine the recoverable amount, which is then compared to the carrying amount, differ; for example ASC 350 uses *Fair Value* whereas IAS 36 uses the lower of *Value in Use* or *Fair Value Less Costs of Disposal*. Further discussion of the differences between these accounting models is beyond the scope of this publication. Notwithstanding, concepts covered in this VFR Valuation

Advisory #3 may be applicable on a facts and circumstances basis when fair value is being determined in IAS 36.

During the creation of this document, members of the International Valuation Standards Council (IVSC) participated in certain discussions.

Because of the need for financial statements to be both reliable and relevant, valuation practices must provide reasonably consistent and supportable fair value conclusions. To this end, it is believed that guidance regarding best practices on certain specific valuation topics would be helpful. The topics are selected based on those in which the greatest diversity of practice has been observed. To date, The Appraisal Foundation has issued two Valuations in Financial Reporting (VFR) Advisories as follows: VFR Advisory #1, *The Identification of Contributory Assets and Calculation of Economic Rents* (May 31, 2010); and VFR Advisory #2, *The Valuation of Customer Related Assets* (June 15, 2016). In addition, guidance is currently under development on the topic of valuing contingent consideration.

This document presents helpful guidance for those that are preparing fair value measurements; however, this Advisory is not intended to be an authoritative valuation standard. The valuation of assets is a complicated exercise that requires significant judgment. The Working Group believes that consideration of the facts and circumstances related to the asset(s) that are being valued may sometimes support a departure from the recommendations in this Advisory. This Advisory seeks to present views on how to approach and apply certain aspects of the valuation process appropriate for measuring the fair value of controlling interests.

This VFR Advisory has been developed for measuring fair value for financial reporting and is not intended for other valuation contexts.

The Appraisal Foundation wishes to express its utmost gratitude to the Working Group on *The Measurement and Application of Market Participant Acquisition Premiums* for volunteering their time and expertise in contributing to this Advisory. Specifically, sincere thanks to the following individuals:

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The views set forth in this Advisory are the collective views of the members of this Working Group and do not necessarily reflect the views of any of the firms that the Working Group members are associated with.

This Advisory was approved for publication by the Board of Trustees of The Appraisal Foundation on September 6, 2017. The reader is informed that the Board of Trustees defers to the members of the Working Group for expertise concerning the technical content of the document.

The Appraisal Foundation served as a sponsor and facilitator of this Working Group. The Appraisal Foundation is the nation's foremost authority on the valuation profession. The organization sets the Congressionally authorized standards and qualifications for real estate appraisers, and provides voluntary guidance on recognized valuation methods and techniques for all valuation professionals. This work advances the profession by ensuring appraisals are independent, consistent, and objective. More information on The Appraisal Foundation is available at www.appraisalfoundation.org.

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BACKGROUND

1 Premiums for control have long been a focus in business valuation.

2 Through the early 1990s, it was generally accepted that the publicly traded price of a company's
3 shares represented the value of a minority interest and that, if the goal was to value a control
4 interest, a "premium for control" would be added to the value of equity indicated by that publicly
5 traded price. That premium generally came from market evidence in which the price paid to
6 acquire an entire company was compared to the publicly traded price of that same company's
7 shares prior to the acquisition.

8 However, in the late 1990s, this concept came into question and views have since been changing.
9 Various points have been made regarding why the control value of an entity might be no greater
10 than that indicated by its publicly traded price.

11 In any case, it has become widely accepted that the market evidence supplied by comparing the
12 acquisition price to the publicly traded price does not represent a premium for conceptual control
13 but, rather, represents a premium linked to actual changes that can be made by exercising that
14 control. Control, and whether one has it, is not really the focal point. What matters is that, after
15 an acquisition, the acquired company is now under different management/stewardship. A price
16 higher than the publicly traded price might be reasonable if the new management and/or
17 combined entity expect(s) improved cash flow or growth or reduced risk. If no improvements or
18 risk reduction could reasonably be expected, there may be little ability for an acquirer to pay a
19 price higher than the publicly traded price and still generate a reasonable return on its investment.
20 In such cases, the control value may approximate the publicly traded price.

INTRODUCTION AND SCOPE

21 This VFR Advisory sets forth best practices for certain issues encountered in measuring the fair
22 value of controlling interests in business enterprises for financial reporting purposes. When
23 valuing controlling interests in business enterprises, valuation specialists often reference the
24 concept generally referred to as the control premium. The Appraisal Foundation’s Subject Matter
25 Expert Group on Best Practices for Valuations in Financial Reporting has identified the use of
26 control premiums in fair value measurement as an area of considerable diversity in appraisal
27 practice.

28 The most common instances of such fair value measurements include Step 1 of the goodwill
29 impairment test, portfolio valuation for investment companies, and application of the acquisition
30 method of business combinations for step acquisitions. Of these, the Working Group believes
31 Step 1 of the goodwill impairment test is most prevalent.

32 In a 2008 Securities and Exchange Commission (SEC) speech, the topic of control premiums
33 was raised. It was stated that, in cases where higher control premiums are used, the level of
34 documentation required to support the control premium would also increase.¹

35 In fulfilling its mandate to provide best practices in the context of measuring fair value for
36 financial reporting purposes, the Working Group has elected to introduce the term Market
37 Participant Acquisition Premium (MPAP). The purpose of introducing this new term is twofold:
38 (1) to emphasize the importance of the market participants’ perspective when measuring fair
39 value; and (2) to distinguish this premium from the more general (and occasionally controversial)
40 notion of the control premium.

41 The best practices presented in this VFR Advisory have been developed for measuring fair value
42 for financial reporting and are not intended for other valuation contexts.

43 This VFR Advisory is the result of deliberations by the Working Group and input received from
44 interested parties.

¹ Robert G. Fox III, “Speech by SEC Staff: Remarks before the 2008 AICPA National Conference on Current SEC and PCAOB Developments,” December 8, 2008, transcript, <https://www.sec.gov/news/speech/2008/spch120808rgf.htm>.

MARKET PARTICIPANT ACQUISITION PREMIUM

45 Concepts

46 Valuation specialists have long believed that the value of a business ownership interest is
47 influenced by the degree of control available to the subject interest's owner. *The International*
48 *Glossary of Business Valuation Terms*² defines control as “the power to direct the management
49 and policies of a business enterprise.”³ Both intuition and empirical observation suggest that the
50 presence (or absence) of the so-called prerogatives of control may influence the value of a
51 business ownership interest. In short, one would usually prefer to exercise control than not. As a
52 result, investors might be willing to pay more for a controlling interest than for an otherwise
53 comparable noncontrolling interest in the same enterprise.

54 To induce a rational investor to pay more for a controlling interest, the prerogatives of control
55 must give rise to the potential for incremental economic benefits. In other words, the prerogatives
56 of control have little inherent value, but rather have value to the extent that their exercise
57 enhances the economic benefits available to the owner of the subject controlling interest. Control
58 may be valuable if the exercise of control will enhance the enterprise's cash flows and/or reduce
59 the enterprise's risk. *The International Glossary of Business Valuation Terms* defines a control
60 premium as “an amount or percentage by which the pro rata value of a controlling interest
61 exceeds the pro rata value of a noncontrolling interest in a business enterprise, to reflect the value
62 of control.”

63 Historically, the concept and/or measurement of the control premium has proven to be vexing
64 and contentious to valuation specialists. Those of a more empirical disposition point to the range
65 of premiums observed in closed transactions as a starting point for analysis, while others observe
66 that the much larger population of public companies that are not acquired each year supports the
67 theory that control premiums for most publicly traded companies either do not exist or are too
68 small to justify the costs and uncertainties associated with an attempted acquisition. In the
69 context of fair value measurement, the Working Group desires to reorient discussion and analysis
70 to the reasonable expectations of the relevant pool of market participants regarding cash flow
71 enhancement and risk reduction at the measurement date.

² *The International Glossary of Business Valuation Terms* contains valuation terms and definitions adopted by five North American professional organizations that recognize business valuation as a professional discipline: American Institute of Certified Public Accountants, American Society of Appraisers, National Association of Certified Valuation Analysts, The Canadian Institute of Chartered Business Valuators, and The Institute of Business Appraisers.

³ The Working Group believes that this definition is consistent with instances where definitions of control appear in U.S. Generally Accepted Accounting Principles.

72 **Definition**

73 In this VFR Advisory the Working Group has introduced the MPAP, defined as the difference
74 between: (1) the *pro rata* fair value of the subject controlling interest; and (2) *its foundation*.
75 Foundation is measured with respect to the current stewardship of the enterprise. In other words,
76 the foundation contemplates that the prerogatives of control will continue to reside with the
77 existing controlling shareholder or group of shareholders. The Working Group believes that
78 valuation specialists most commonly associate the *foundation* with the *pro rata* fair value of
79 marketable, noncontrolling interests in the enterprise. Therefore, for publicly traded companies,
80 the equity foundation is equal to the quoted market price for the company's shares. Foundation
81 value does not give consideration to discounts for lack of marketability/liquidity.

82 However, while the preceding describes an MPAP Equity Foundation concept, later in this
83 Advisory an alternative way to think about the MPAP is introduced. It proposes that instead of
84 utilizing the Equity Foundation to determine an MPAP, usage of a Total Invested Capital (TIC)
85 Foundation may be more appropriate. (For clarity and emphasis, this use of the word
86 "Foundation" will be capitalized in subsequent sections.)

87 **Control and Marketability**

88 The MPAP definition does not ascribe a particular degree of marketability to the subject
89 controlling interest. The issue of marketability for controlling interests is a source of diversity in
90 practice, as some valuation specialists apply discounts for lack of marketability to derive the fair
91 value of controlling interests in privately held companies, while others do not. The Working
92 Group believes in most cases sellers would have access to a market as a forum to transact.

93 Among the prerogatives of control is the discretion to pursue an orderly sales process in order to
94 realize the (undiscounted) value of the interest while enjoying the benefits of ownership.
95 Although transaction costs would not be considered part of fair value, fair value contemplates the
96 usual and customary marketing activities for such interests. Controlling interests should not be
97 held to the same standard of marketability as publicly traded equities because the markets (and
98 associated marketing periods) differ. For controlling interests in business enterprises, the usual
99 and customary marketing activities may be time consuming.

100 **Illustrative Examples**

101 Two examples serve to clarify the MPAP definition. First, consider a business enterprise that is
102 not publicly traded. The company's founder owns 70 percent of the outstanding shares and
103 continues to exercise control over the enterprise. The remaining 30 percent of the outstanding
104 shares are held by a number of investors, none of whom own more than 5 percent. Despite the
105 availability of numerous investment opportunities with indicated positive net present values, the
106 founder demonstrates little interest in growth and is averse to the use of debt financing. The price
107 per share paid by market participants for a controlling interest is likely to exceed that paid for a
108 noncontrolling (albeit hypothetically marketable) interest reflecting current stewardship of the
109 company. In other words, there is likely to be an MPAP. Its magnitude likely will be influenced
110 by the perceived ability of market participants to exercise the prerogatives of control to increase
111 the cash flows and/or reduce the discount rate applicable to the subject interest. Available
112 strategies include making investments to spur revenue and earnings growth (thereby potentially
113 increasing cash flow), and employing a more typical financing mix for the industry (thereby
114 reducing the weighted average cost of capital). Some market participants may also expect cost
115 savings from eliminating redundancies. For privately held companies without near term liquidity
116 expectations—much more so than publicly traded companies—there might also be cost savings
117 from adjusting compensation and other costs to market rates.⁴

118 Second, consider a business enterprise that is publicly traded. The business is generally believed
119 to be well managed, reporting operating margins in line with industry peers. The company has
120 created and marketed a unique technology and has generated significant historical revenue
121 growth. In this case, opportunities to generate economic benefits by exercising the prerogatives
122 of control are more limited. However, market participants may own complementary technologies
123 that, if marketed alongside that of the subject entity, would increase revenue growth.
124 Alternatively, market participants may have existing distribution networks capable of handling
125 the subject entity's products that would enhance profit margins. Similar to the other example,
126 market participants' perceptions of how prerogatives of control translate into value influence the
127 investment decision.

128 In each case, the task of the valuation specialist is to identify and evaluate the feasibility of the
129 available strategies from the perspective of market participants for the subject interest. The
130 appropriate MPAP considers not only the magnitude of the available economic benefits, but also
131 the degree to which such potential benefits will influence the price paid by market participants
132 for the subject controlling interest in an orderly transaction at the measurement date. The
133 Working Group is not stating that the economic benefits must be precisely quantified in each
134 case. Rather, at a minimum, analysis should be performed to identify which form(s) of economic
135 benefit market participants would reasonably expect to enjoy and some general magnitude of the
136 effects of those benefits on value.

⁴ Whether such cost savings would contribute to the MPAP depends on how the above-market compensation and other costs were treated in measuring the foundation value. There is diversity of opinion in the profession as to situations where such "normalizing" adjustments are appropriate. The resolution of that controversy is beyond the scope of this Valuation Advisory.

137 **Concluding Observations**

138 The Working Group believes that MPAPs should be supported by reference to either enhanced
139 cash flows or a lower required rate of return from the market participant perspective. The
140 referenced economic benefits should be sufficient to provide market participants with an
141 adequate return on the concluded fair value of the controlling interest. The Working Group
142 anticipates that in many instances such benefits will not be reliably identifiable, resulting in
143 either no, or a small, premium.

144 Notwithstanding the emphasis on cash flow and risk differentials in supporting MPAPs in fair
145 value measurement, the Working Group acknowledges the merit of analyzing historical data
146 regarding observed premiums from closed transactions. Such data might provide some examples
147 of the extent to which buyers have expected improvement in cash flows or reduction of risk in
148 specific transactions. However, to conform to best practices, valuation specialists should
149 critically evaluate the quality and relevance of such benchmark premium data to assess its
150 applicability to the valuation subject. It is inconsistent with best practices to rely solely on
151 benchmark premium data to evaluate the reasonableness of the MPAP in a fair value
152 measurement.

CONCEPTUAL CONSIDERATIONS

153 The Working Group believes that a persuasive fair value measurement for a controlling interest
154 in a business enterprise should be supported by a clear explanation of the incremental economic
155 benefits available to market participants. In this section of the VFR Advisory, we discuss the
156 prerogatives of control that are the means for generating economic benefits and provide examples
157 of the economic benefits typically associated with changing control of a business enterprise. This
158 Advisory also discusses the characteristics of a business enterprise that are likely to influence the
159 magnitude of the economic benefits available to market participants.

160 Prerogatives of Control

161 The prerogatives of control refer to the rights possessed by the owner of a controlling interest in a
162 business enterprise to direct the management and policies of a business enterprise. Following is a
163 nonexhaustive list of the specific means by which such control is exercised:⁵

- 164 1. Appointing or changing operational management
- 165 2. Electing members of the board of directors
- 166 3. Determining management compensation and perquisites
- 167 4. Setting operational and strategic policy for the business
- 168 5. Acquiring, leasing, or liquidating business assets
- 169 6. Selecting suppliers, vendors, and subcontractors
- 170 7. Negotiating and consummating mergers and acquisitions
- 171 8. Liquidating, dissolving, selling, or recapitalizing the company
- 172 9. Selling or acquiring treasury shares
- 173 10. Registering the company's equity securities for an initial or secondary public offering
- 174 11. Registering the company's debt securities for public offering
- 175 12. Declaring and paying dividends
- 176 13. Changing the capital structure
- 177 14. Changing the articles of incorporation or bylaws
- 178 15. Selecting joint venture and other business partners
- 179 16. Making product and service offering decisions
- 180 17. Making marketing and pricing decisions
- 181 18. Entering into licensing and other agreements regarding intellectual property
- 182 19. Blocking any or all of the above actions

⁵ These items are based on lists appearing in *Business Valuation Discounts and Premiums*; by Shannon P. Pratt, John Wiley & Sons, Inc., Second Edition, 2009, pages 17-18 and in *Valuing a Business: The Analysis and Appraisal of Closely Held Companies*; by Shannon P. Pratt and Alina V. Niculita, The McGraw-Hill Companies, Inc., Fifth Edition, 2008, page 385.

183 The Working Group believes that the prerogatives of control noted above have limited inherent
184 value, but are rather the means through which market participants implement strategies designed
185 to generate economic benefits. For example, the bare ability to select a company's suppliers
186 conveys no particular economic benefit to market participants, and therefore does not influence
187 the fair value of a controlling interest. However, if selecting suppliers with whom market
188 participants have existing relationships allows market participants to achieve a lower cost of
189 sales, that economic benefit will potentially influence the MPAP.

190 **Economic Benefits that Support MPAP**

191 The Working Group believes that the economic benefits that support MPAPs ultimately manifest
192 in two ways: (1) enhanced cash flows; or (2) lower required rates of return. The task of the
193 valuation specialist is to identify the economic benefits available to multiple market participants
194 and support a magnitude of the amount by which such benefits may reasonably be expected to
195 increase the price paid by market participants for the subject interest over its Foundation value.
196 The Working Group notes that the economic benefits (for example, synergies) discussed herein
197 refer to those available to a group of market participants; those available only to a single market
198 participant generally would be excluded.⁶

199 **Enhanced Cash Flows**

200 Market participants contemplating purchase of a controlling interest in a business enterprise often
201 anticipate implementing business strategies that are not currently being implemented, or are not
202 available to be implemented, by the current owners. These strategies may increase cash flows or
203 improve investment returns through other strategy revisions. As stated previously, this Advisory
204 will refer to the concept of cash flow improvement to denote all forms of value-enhancing
205 investment and operational strategies. **In all cases, an acquisition premium would only be**
206 **supported by changes believed to enhance the total return on investment.** Potential improvements
207 may include the following areas, which are illustrative and not intended to be an all-inclusive list:

- 208 • *Superior revenue growth.* Market participants may have greater financial capacity and/or
209 willingness to invest more in positive net present value projects in order to fuel future
210 revenue growth than the incumbent ownership group. Alternatively, market participants may
211 have complementary products or services that are expected to increase sales of the subject
212 entity, the market participants, or both. Market participants may anticipate enhanced pricing
213 power following the acquisition of a competitor. They may have existing relationships with
214 customers that have previously been inaccessible to the subject entity. In addition, market
215 participants may have existing distribution networks that are broader than those of the subject
216 entity that could contribute to superior revenue growth.

⁶ Market participant synergies should be viewed in terms of the overall level of value enhancement achievable by multiple market participants rather than simply matching the nature of specific benefits.

217 • *Increased operating margins.* Market participants may anticipate increasing operating
218 margins by eliminating redundant operating costs or achieving economies of scale through
219 the addition of incremental sales volume. Larger companies are often able to negotiate
220 superior terms with suppliers, resulting in lower cost of sales. For privately held companies,
221 market participants might expect increased margins through the normalization of
222 compensation and contract amounts that had not been at market-based rates.⁷

223 • *Working capital efficiencies.* Relative to the subject entity under current stewardship, market
224 participants may expect to maintain lower cash balances, negotiate more favorable payment
225 terms or inventory delivery schedules with suppliers, or have tighter credit policies.

226 • *Capital expenditure efficiencies.* Market participants may have more favorable ongoing
227 access to necessary capital equipment, or they may be able to consolidate production and
228 distribution capacity.

229 Regardless of the source, to be relevant in differentiating the fair value of a controlling interest,
230 the enhanced cash flows must be incremental to those expected by the subject entity under
231 current stewardship. In other words, enhanced cash flows giving rise to an MPAP are
232 incremental to prospective financial information that reflects the ongoing operations of the
233 business enterprise absent a change of control transaction.

234 We recognize that a fundamental aspect of understanding value of an entity is the prospective
235 financial information that management provides. The Working Group believes that forecasts
236 provided by management, unless they reflect information unknown to the market, have in most
237 circumstances been priced into and are represented by the publicly traded price. Indications of
238 value beyond the publicly traded price would need to reflect enhancements to cash flow or
239 reduction of risk that could be effectuated by an acquirer of the entity as discussed throughout
240 this Advisory.

241 Furthermore, implementation of strategies expected to generate cash flow benefits may require
242 the acquirer to incur significant costs. For anticipated revenue synergies, such costs may include
243 investments in incremental production capacity and/or distribution infrastructure. Anticipated
244 cost savings may be realized only after severance costs have been incurred. In all cases, the
245 anticipated cash flow benefits that contribute to MPAP should be assessed in combination with
246 required costs to implement the corresponding strategy.

247 The Working Group notes that there may be incremental risks to achieving forecast cash flow
248 enhancements and that such incremental risks may be considered in the valuation either by
249 adjusting the enhancements to cash flow or by adjusting the required rate of return, and any such
250 adjustments would need to be sufficiently supported.

⁷ Whether such cost savings would contribute to the MPAP depends on how the above-market compensation and other costs were treated in measuring the foundation value. There is diversity of opinion in the profession as to where such “normalizing” adjustments are appropriate. The resolution of that controversy is beyond the scope of this Valuation Advisory.

251 The effect of cash flow enhancements will influence the magnitude of the MPAP only to the
252 extent that market participants are willing to credit the subject entity with the economic benefits
253 resulting from them.

254 **Lower Required Rate of Return**

255 When evaluating the purchase of a controlling interest in a business enterprise, market
256 participants may have a lower required rate of return than investors contemplating the purchase
257 of an otherwise comparable noncontrolling interest in the entity under current stewardship. There
258 are several reasons market participants may have a lower required rate of return for a controlling
259 interest, including:

260 • *Optimized capital structure.* If the subject entity employs a suboptimal mix of debt and
261 equity financing, the weighted average cost of capital may be reduced by adjusting the
262 subject entity's capital structure. While it may be more common for companies to use a less-
263 than-optimal amount of debt financing, the costs of financial distress may also cause an over-
264 leveraged company to have an unfavorable cost of capital. Judgments as to the optimal
265 capital structure for the subject entity may be made with reference to the observed capital
266 structures of companies in the subject entity's industry.

267 • *Company size benefits.* Most valuation specialists agree that, all else being equal, larger
268 companies enjoy lower costs of capital than smaller companies for reasons such as greater
269 diversification, and increased purchasing and pricing leverage, among others. Often, market
270 participants are larger than the subject entity and therefore have a lower cost of capital.

271 • *Reduced operating risk.* Market participants may perceive opportunities to reduce the
272 operating risk of the business through strategies designed to reduce the volatility of raw
273 material pricing, adopting a more variable cost structure, mitigating customer concentrations,
274 or securing more long-term customer contracts, among others. Such measures may reduce the
275 operating risk and cost of capital for the business enterprise.

276 Such effects will influence the magnitude of the MPAP only to the extent that market participants
277 are willing to credit the subject entity with the economic benefits resulting from a lower cost of
278 capital.

279 There is no consensus among valuation specialists regarding the relationship between the size of
280 the target and the required return from a market participant perspective. Some valuation
281 specialists observe that market participants use a cost of capital commensurate with the size of
282 the target when estimating the price to be paid in arm's length transactions. Others observe that
283 the market participants, when making investment decisions, use instead a cost of capital
284 reflecting the benefits of the increased size and diversification of the combined entity post-
285 transaction. On the basis of its outreach efforts, the Working Group has concluded that both
286 perspectives (cost of capital based on the size of the target and cost of capital based on the size of
287 the combined entity post-transaction) are relevant when measuring fair value. When the
288 resulting range of value indications is wide, the importance of the valuation specialist's judgment
289 in selecting the point most reflective of fair value increases.

290 • The valuation specialist may seek to supplement this judgment with reference to the results
291 of other valuation methods under the market or cost (asset-based) approaches. When this is
292 done, the point in a range where there seems to be the most consensus across approaches
293 could provide relevant insights implying which is the stronger size premium case.

294 • The valuation specialist may be able to use the rate of return implied in a past business
295 combination of the subject entity to inform its risk assessment in a current fair value
296 measurement.⁸

297 • The valuation specialist may be able to reference implied rates of return for similar acquired
298 assets or companies.

299 **Other Key Points**

300 The Working Group cautions that it may not be appropriate to assume that market participants
301 will always incorporate all economic benefits of control into the price paid for a controlling
302 interest in a subject business, even if such benefits exist. In other words, market participants
303 ordinarily do not give away all of their upside—the incremental economic benefits—that may
304 arise from a transaction. How much of the upside is included in the transaction price depends, in
305 part, on the competitive dynamics of the sale process.

⁸ Any analysis of rates of return implied by past business combinations should exclude the effect of buyer-specific synergies in the cash flows.

306 Furthermore, the Working Group believes that it is incorrect to assume that the public market has
307 “underpriced” noncontrolling interests in the subject entity in measuring the magnitude of an
308 MPAP for a controlling interest. For example, stock analysts frequently publish price targets for
309 the shares of publicly traded companies. The existence of price targets in excess of the prevailing
310 stock price does not provide direct evidence of the MPAP. In such cases, the valuation specialist
311 should investigate the investment thesis underlying the price target. If the price target is premised
312 on the expectation that the company may soon be “in play” for a change of control transaction or
313 an expectation that a controlling interest buyer would implement strategies to increase the
314 economic benefits generated by the firm, such price targets may provide indirect support for an
315 MPAP. However, in most cases, the Working Group believes that analysts’ price targets do not
316 reflect factors that are relevant to MPAP considerations.

BUSINESS CHARACTERISTICS INFLUENCING MARKET PARTICIPANT ACQUISITION PREMIUM

317 As valuation specialists evaluate the potential economic benefits that may be derived by market
318 participants from exercising the prerogatives of control in a manner different from current
319 ownership, it is important to assess the reasonableness of the assumed economic benefits in the
320 context of the characteristics of the subject business enterprise and the industry in which it
321 operates. The following discussion is not intended to be comprehensive, but is representative of
322 the factors that valuation specialists should consider in estimating the price market participants
323 would pay for the subject controlling interest. The discussion is principles-based but the Working
324 Group acknowledges there may be exceptions based on the facts and circumstances of individual
325 cases.

326 Acquisition Activity in the Industry

327 The number of change of control transactions in a given industry fluctuates over time. When the
328 frequency of transactions in an industry increases, it may signal that market participants perceive
329 greater opportunities to generate economic benefits by exercising the prerogatives of control. For
330 example, regulatory or other changes may favor a smaller number of larger industry players,
331 prompting a round of consolidation. Alternatively, acquisition activity may increase because
332 economic turmoil is causing the financially weaker members of the industry to seek to be
333 acquired by more stable and less financially distressed companies.

334 Robust acquisition activity in the industry may increase the number of market participants that
335 would contemplate acquiring a controlling interest in the subject entity. As a result, the selling
336 shareholders may be able to realize greater economic benefits due to the increased number of
337 bidding market participants, thereby increasing the MPAP.

338 In contrast, as a consolidation trend for an industry is confirmed by an increasing number of
339 announced transactions, the fair value of noncontrolling interests in the subject entity may
340 increase as investors come to expect that a change of control transaction on favorable terms is
341 imminent. In such cases, the MPAP may be reduced as the difference between the fair value of
342 controlling and noncontrolling interests is compressed.

343 Stage in Company Life Cycle

344 Growth-stage target companies generally offer greater opportunities for realizing economic
345 benefits than more mature companies. For example, market participants may be able to leverage
346 existing distribution networks that growth-stage companies have not yet had the opportunity or
347 financial resources to develop, providing opportunities for superior revenue growth and/or
348 enhanced operating margins. Mature target companies, on the other hand, are likely to present
349 fewer opportunities for enhanced cash flows or lower cost of capital. As a result, the appropriate
350 MPAP may be lower for such companies.

351 **Market Participant Attributes**

352 Market participants are commonly classified into three general categories:

- 353 • *Strategic acquirers* already operate in the same business as the subject entity. Revenue
354 synergies and cost savings tend to be the most important economic benefits available to
355 strategic acquirers exercising the prerogatives of control. Strategic acquirers may be
356 competitors of, suppliers to, or customers of the subject entity.
- 357 • *Financial acquirers* do not have any existing complementary business operations. Financial
358 acquirers, such as private equity funds, are less likely to identify significant revenue
359 synergies or operating cost savings than strategic acquirers. Financial acquirers may possess
360 financing advantages relative to strategic acquirers.
- 361 • *Conglomerate acquirers* are operating companies that acquire the subject entity to increase
362 the diversification of the acquirer’s existing revenues and cash flows. While there may be
363 some administrative efficiencies that are expected to contribute to enhanced cash flows, the
364 expectation of diversification benefits, and thus lower risk, causes the benefits available to
365 conglomerate acquirers to more closely resemble financial rather than strategic acquirers.

366 While this classification is helpful for evaluating the attributes of market participants and the
367 nature and magnitude of economic benefits they will expect from owning control of the subject
368 entity, the Working Group emphasizes that the boundaries between the categories are permeable.
369 For example:

- 370 • Financial acquirers often acquire controlling interests in companies to “bolt on” to existing
371 portfolio investments, thereby resembling strategic acquirers in many respects.
- 372 • Financial acquirers may anticipate significant cash flow enhancements from replacing what
373 they perceive to be an underperforming management team, or from the eventual sale to a
374 strategic acquirer, or through taking the entity public with favorable initial public offering
375 pricing.
- 376 • Strategic or conglomerate acquirers may have access to financing arrangements on terms at
377 least as favorable as financial acquirers.
- 378 • A decision to operate as a private company avoids the costs of public company compliance.

379 Valuation specialists should identify market participants’ attributes and relate the expected
380 economic benefits of control to the likely strategies of such acquirers. In many cases, strategic,
381 financial, and conglomerate acquirers compete with one another for the same targets and the fair
382 value of controlling interests could appear to encompass a mix of strategic and financial benefits.

383 **Size of Market Participants Relative to Subject Entity**

384 Market participants are often larger than the subject entity. This is unsurprising, as larger
385 companies may be positioned to realize economic benefits that are not available to a smaller
386 company on a stand-alone basis. For example, other factors being equal, larger companies are
387 more likely to have favorable access to capital, existing distribution infrastructure and
388 administrative capacity, and superior negotiating leverage with suppliers and customers. As a
389 result, the larger market participants may be able to extract greater economic benefit from the
390 subject entity than the current owner(s)—and in a shorter period of time. As a result, the MPAP
391 may be positively related to the size of the market participants for the subject controlling interest.

392 **Balance of Information**

393 Market participants forecast the economic benefits to be realized from an acquisition on the basis
394 of information discovered during due diligence procedures. Assuming the subject entity is a
395 willing party to the selling process, the due diligence associated with acquisition of a controlling
396 interest is likely to yield information not available to investors in noncontrolling interests in the
397 subject entity. The Working Group has identified three varieties of information asymmetry that
398 can influence the fair value of a controlling interest, and by extension, the MPAP, in certain
399 circumstances:⁹

- 400 1. *Information available to market participants for controlling interests, but not market*
401 *participants for noncontrolling interests.* In general, the subject entity's Equity
402 Foundation reflects only publicly available information regarding the subject entity.
403 However, at the measurement date, there may be relevant information regarding the
404 results of operations or other factors that are disclosed to market participants for
405 controlling interests but not yet publicly disseminated. For example, if the measurement
406 date coincides with the end of the subject entity's reporting period, operating results for
407 the period are likely known by the company with a considerable degree of certainty
408 although the company may have issued only limited guidance to analysts and investors so
409 that the publicly traded share price does not reflect the information. The existence of
410 nonpublic information favorable to the subject entity may support a larger MPAP; if the
411 nonpublic information is unfavorable, that may indicate a lower MPAP.

⁹ This discussion is in the context of publicly traded entities. For private companies, the Foundation value is not observable and so the application of information asymmetry is more difficult to measure as it relates to Foundation value.

412 2. *Information known to the subject entity but not market participants.* If the information is
413 favorable to the subject entity, it is likely to be disclosed to the market participants during
414 due diligence. Under the definition of fair value, market participants are assumed to be
415 “knowledgeable, have a reasonable understanding about the asset or liability and the
416 transaction based on all available information, including information that might be
417 obtained through due diligence efforts that are usual and customary.”¹⁰ As a result, even if
418 the subject entity would prefer that market participants not be aware of unfavorable
419 information, such information is assumed to be known in measuring fair value, resulting
420 in a comparatively lower MPAP. The Working Group believes favorable information
421 revealed to the market participants but not reflected in the Equity Foundation would
422 increase the MPAP.

423 3. *Information known only to a single market participant, but not the subject entity.* A
424 particular market participant might have information that enables them to take advantage
425 of unique revenue synergies or cost savings. If this information is truly known only to a
426 single market participant, the effect on the fair value of the subject controlling interest is
427 likely to be modest as the market participant would be unwilling to pay more than the
428 value of the economic benefits available to the next most advantageously positioned
429 market participant. In other words, if such information is known only to a specific buyer,
430 the financial value impact resulting from this information should be excluded from the
431 estimation of fair value.¹¹

432 In considering information asymmetries, the valuation specialist should be careful to not double
433 count the impact of such items. The impact of some information asymmetries might already be
434 reflected in the typical inputs (i.e., cash flows and/or required rates of return).

435 The Working Group cautions that it can be difficult to support the existence and magnitude of
436 most information asymmetries. Further, the degree to which the balance of information
437 contributed to historically observed transaction premiums will, in most cases, be impossible to
438 discern.

¹⁰ ASC 820-10-20.

¹¹ The working group recognizes there may be instances in which different market participants have access to different information that could result in similar financial value impact. These would be considered market participant synergies because in a competitive bidding situation they would likely be paid for.

439 **Capital Structure of Subject Entity**

440 Among the prerogatives of control is the ability to adjust the subject entity’s capital structure. As
441 discussed previously, shifting to a more optimal capital structure is one strategy for reducing the
442 weighted average cost of capital. The farther the subject entity’s capital structure is from the
443 optimal financing mix, the greater the potential MPAP. The Working Group notes that in the
444 application of invested capital market multiples, some aspect of this benefit may be already
445 factored in because guideline companies typically have a more optimal capital structure.

446 **Management Objectives**

447 Privately held companies often are managed with objectives that differ from those of publicly
448 traded companies. This difference is not necessarily a matter of “quality” of management
449 (addressed in the next section), but instead might be a matter of differing goals. Such differences
450 might include above-market compensation paid to the private company owner, lease rates that do
451 not reflect market conditions, avoidance of the use of debt financing, net working capital at levels
452 above industry norms, and other similar factors.

453 Depending on how these factors are addressed in determining the Foundation value, the MPAP
454 for such a privately held company might exceed that measured for many publicly traded entities.

455 **Quality of Management**

456 Another prerogative of control is the ability to change the subject entity’s management team. If
457 the quality of the incumbent management team is perceived by market participants to be less
458 than optimal, it may be more likely that strategies to enhance cash flows or reduce the cost of
459 capital can be successfully implemented. Such strategies might contribute to a larger MPAP.
460 Conversely, if market participants consider the existing management team to be of high quality,
461 opportunities to realize further economic benefits are likely to be limited, resulting in a smaller
462 MPAP.

463 While the notion of management quality is inherently subjective, objective metrics can provide
464 insight regarding the effect of current management policies. Metrics such as growth, profitability,
465 asset utilization, and cost of capital can be benchmarked against peer companies to provide
466 insight regarding the quality of incumbent management. However, such measures must be
467 interpreted in the context of the management team’s tenure and firm-specific factors, such as
468 contracts, facilities, and other assets that were inherited from prior management teams.

469 The Working Group observes that poor quality management is unlikely to be a factor cited in
470 support of an MPAP since it rarely will be acknowledged by the management team responsible
471 for the fair value measurement. Nonetheless, it is an important consideration and highlights the
472 importance of comparative financial analysis when evaluating the economic benefits that may be
473 available to market participants exercising control over a business enterprise.

474 **Regulatory Factors**

475 Regulatory factors can be significant considerations in business combinations. In addition,
476 regulatory factors can mitigate or amplify the degree of control exercised by a particular
477 ownership interest. Purchase prices and acquisition premiums in transactions outside the United
478 States can differ significantly from those inside the United States because of different regulatory
479 environments.

480 There are a variety of regulatory factors that may be relevant to the analysis of the MPAP:

481 • *Regulations governing merger and acquisition activity.* Some regulations, such as antitrust
482 provisions designed to limit the potential for monopoly power, may directly affect which
483 market participants are potential acquirers of the subject entity. Regulatory provisions that
484 significantly reduce the number of potential bidders for the subject entity may have a
485 dampening effect on the MPAP.

486 • *Limitations on foreign direct investment.* As with anti-trust provisions, those aimed at
487 limiting the ability of foreign market participants to acquire a controlling interest in the
488 subject entity may reduce the MPAP applicable to the subject entity.

489 • *Investor protection measures.* Investor protection measures such as uniform accounting
490 standards and corporate securities laws are generally designed to protect noncontrolling
491 investors. Some measures may even grant noncontrolling shareholders in a business
492 enterprise the right to block the controlling owner's ability to unilaterally exercise certain
493 prerogatives of control. Since the MPAP measures the difference between the fair value of
494 controlling and noncontrolling interests, regulations that increase the fair value of
495 noncontrolling interests will, all else being equal, reduce the MPAP.

496 • *Industry-specific regulations.* Some industries, such as banking and telecommunications, are
497 governed by a host of industry-specific regulations that govern the conduct of, and
498 competition among, firms within the industry. Such industry regulations can shift with
499 economic conditions and the political environment. Industry-specific regulations that are
500 perceived to promote consolidation activity may increase the MPAP. If, instead, the
501 prevailing regulatory stance is one of limiting acquisition activity, the MPAP may be lower.

502 The influence of regulatory factors should be evaluated relative to observed transaction activity
503 in the subject entity's industry.

504 **Corporate Bylaws and Governing Documents**

505 Valuation specialists should consult the subject entity's corporate bylaws and other governing
506 documents to determine whether there are any provisions that may restrict the ability of the
507 subject interest to exercise control over the business enterprise.

508 The Working Group believes it is a mistake to conceive of control as being absolute; rather,
509 control of the enterprise should be evaluated along a continuum extending from substantial
510 minority investments to complete ownership of all equity share classes. For example, the subject
511 entity's governing documents may grant preferred shareholders the right to vote as a class on
512 certain corporate actions, or to elect a certain number of corporate directors. In other cases, a
513 supermajority vote of the common shares may be required to approve a sale of the business.

514 Some companies issue both voting and nonvoting shares with the economic rights of the
515 nonvoting shares being identical to the voting shares. Observed differences between trading
516 prices for noncontrolling interests in the two share classes are typically very small. Because this
517 is based on a comparison of the prices of noncontrolling interests, such data is of little use in the
518 analysis of MPAP.

519 **Transaction Structure**

520 The structure of a transaction can exert a significant influence on the nominal price paid for a
521 controlling interest. The tax characteristics of a transaction, including the availability of
522 amortization benefits to the market participants, can affect the purchase price. ASC 350 requires
523 consideration of whether fair value reflects a taxable or nontaxable transaction structure.

524 Controlling interest acquisitions often include contingent consideration arrangements. Depending
525 on how the contingent consideration is measured, the nominal purchase price may be overstated
526 or understated.¹²

527 Valuation specialists should carefully consider the influence of transaction structure on both
528 observed transaction multiples and control premiums, as well as fair value measurement of the
529 subject controlling interest. Unfortunately, important details that would permit careful analysis of
530 closed transactions are usually unavailable to the valuation specialist.

531 **Summary**

532 In summary, the Working Group believes this section illustrates many of the factors that
533 valuation specialists would consider in estimating the price market participants are willing to pay
534 for the subject controlling interest. The preceding listing and discussion of business
535 characteristics and considerations is not intended to capture all factors that may influence an
536 MPAP. Instead, the Working Group focused on topics that, based on its collective professional
537 experiences, are encountered most often in practice. Consideration of these concepts may be
538 helpful when performing original analysis to develop an MPAP. These concepts may also be
539 useful in assessing the reasonableness of another party's MPAP analysis, such as in a peer or
540 specialist review context.

¹² The Working Group notes that contingent consideration arrangements are less common in acquisitions of public companies (the basis for observed transaction premiums).

541 **Conclusions**

542 A well-supported fair value measurement for a controlling interest in a business enterprise should
543 include consideration, from the market participants' perspective, of the incremental economic
544 benefits of control. The prerogatives of control may lead to economic benefits in many areas and
545 the valuation specialist should review the typical business characteristics likely to influence the
546 magnitude of the benefits available to market participants.

547 The Working Group believes that use of the framework discussed will provide an important
548 context for review of the valuation results, and will increase the relevance and reliability of the
549 associated fair value measurement.

ANALYTICAL METHODS

550 The remaining sections of this VFR Advisory address some of the important analytical methods
551 involved in expressing MPAPs, analyzing observed premiums from historical transactions, and
552 assessing the reasonableness of the concluded MPAP.

553 **Expressing the Market Participant Acquisition Premium**

554 Although the MPAP may be expressed as a dollar amount (the difference between the *pro rata*
555 fair value of a controlling interest and its Foundation), valuation specialists customarily express
556 valuation premiums and discounts as the percentage difference. This is intuitive and facilitates
557 the comparison of premiums across companies of different sizes.

558 Valuation specialists have traditionally used the Equity Foundation to calculate the transaction
559 premium as a percentage. This is consistent with the methodology for reporting premiums used
560 by FactSet Mergerstat[®], LLC, which the Working Group observes (based on its experience) to be
561 the most widely cited source of historical control premium data. It is also consistent with the way
562 in which premiums are commonly reported in the financial press.

563 In deliberating the MPAP, the Working Group concluded that the traditional method of
564 calculating transaction premiums is potentially misleading. Specifically, the economic benefits
565 realized through exercising the prerogatives of control enhance the fair value of the enterprise as
566 a whole, not just the fair value of the equity.¹³

567 Further, expressing the MPAP as a percentage of the Equity Foundation distorts the
568 comparability of the MPAP among companies with different capital structures. For example,
569 assume Foundation TIC value for both Company A and Company B is \$100 million. Company A
570 has \$10 million of interest-bearing debt outstanding and Company B has \$50 million of interest-
571 bearing debt outstanding. Assume further that, from the perspective of market participants, the
572 magnitude of economic benefits from exercising the prerogatives of control for Company A is
573 identical to that for Company B, such that the MPAP applicable to each company is \$20 million.

¹³ When there is a change of control transaction, the debt typically is due at its face amount, which approximates or equals fair value.

574 As shown in the following table, the traditional method of expressing the premium as a
 575 percentage of the Equity Foundation will cause the MPAP for Company A to appear smaller than
 576 that of Company B. However, when expressed as a percentage of the TIC Foundation, the
 577 MPAPs—which are economically equivalent (the same dollar amount)—are identical.

| | <u>Company A</u> | <u>Company B</u> |
|--|------------------|------------------|
| Fair Value of Interest-Bearing Debt | \$10.0 | \$50.0 |
| Fair Value of Equity | <u>90.0</u> | <u>50.0</u> |
| Fair Value of Total Invested Capital <i>(Marketable, Noncontrolling Interest Basis)</i> | \$100.0 | \$100.0 |
| Fair Value of Total Invested Capital <i>(Controlling Interest Basis)</i> | \$120.0 | \$120.0 |
| Market Participant Acquisition Premium | \$20.0 | \$20.0 |
| <u>Traditional Method</u> | | |
| Market Participant Acquisition Premium | \$20.0 | \$20.0 |
| Fair Value of Equity <i>(Marketable, Noncontrolling Interest Basis)</i> | \$90.0 | \$50.0 |
| Market Participant Acquisition Premium (%) | 22.2% | 40.0% |
| <u>Total Invested Capital Method</u> | | |
| Market Participant Acquisition Premium | \$20.0 | \$20.0 |
| Fair Value of Total Invested Capital <i>(Marketable, Noncontrolling Interest Basis)</i> | \$100.0 | \$100.0 |
| Market Participant Acquisition Premium (%) | 20.0% | 20.0% |

578 The Working Group believes that best practices include expressing as well as applying the
 579 MPAP in the context of a TIC Foundation.¹⁴ The Working Group acknowledges that following
 580 this best practice will require the restatement of observed transaction premiums that have been
 581 traditionally expressed based on an Equity Foundation. Nonetheless, the Working Group believes
 582 that the benefits of doing so (alignment with the underlying economic benefits giving rise to the
 583 MPAP and greater comparability across firms with different capital structures) outweigh the
 584 incremental effort. Since the observed transaction premiums relate to publicly traded companies,
 585 the information is ordinarily available to enable expression of the observed transaction premiums
 586 using a TIC Foundation.

¹⁴ Concepts of TIC level premiums may not be applicable for certain industries (e.g., certain types of financial services entities).

587 **Analyzing Historical Premium and Transaction Data**

588 Transactions in which the buyer acquires a controlling interest in a publicly traded company
589 afford opportunities to observe the magnitude of transaction premiums paid by acquirers.
590 Valuation specialists often reference observed premiums when estimating or supporting the
591 MPAP for the subject entity. Although similar transaction premiums presumably also exist in the
592 acquisition of private companies, the absence of an observable Foundation price for the acquired
593 company precludes calculating reliable premiums. However, such transactions may yield reliable
594 multiples of revenue, earnings measures, or other relevant metrics that are indicative of the fair
595 value of a controlling interest.

596 The Working Group cautions that exclusive reliance on observed transaction premium data
597 provides, in most cases, insufficient support for a concluded MPAP. Nonetheless, observed
598 transaction premium data may be valuable. The Working Group believes that observed historical
599 premiums provide potentially relevant (albeit indirect) evidence of the appropriate magnitude of
600 the incremental economic benefits anticipated by market participants. The observed premiums
601 can be used to corroborate (or question) the reasonableness of the cash flow forecasts and
602 discount rates underlying fair value measurements within the income approach. However,
603 exclusive reliance on observed transaction premiums without careful analysis of the subject
604 entity's relative financial performance, valuation multiples, and other metrics can result in an
605 unreliable fair value measurement.

606 The valuation specialist may consider the qualitative factors discussed in the earlier section—
607 *Business Characteristics Influencing Market Participant Acquisition Premium*—to narrow the
608 range of observed premiums from the transaction data that may be applicable for the subject
609 entity. Analysis of these factors may also support the incremental benefits assumed in a
610 quantitative analysis of the MPAP.

611 **Assessing the Underlying Data Set – Transaction Data**

612 Valuation specialists should carefully analyze available transaction data and consider various
613 factors specific to the acquired company, the seller, the acquirer, or the transaction that may
614 warrant adjustments to the data. Factors valuation specialists should consider include the
615 following:

- 616 • *Size of Interest Transacted.* The valuation specialists should attempt to ascertain whether the
617 interest transacted represents 100 percent ownership of the company. As discussed
618 previously, there is a continuum of control, and ownership interests of less than 100 percent
619 may not be able to unilaterally exercise the prerogatives of control.
- 620 • *Financial Condition of Seller.* Transactions involving sellers motivated by financial distress
621 or bankruptcy usually do not provide reliable evidence for fair value measurement.

- 622 • *Relationship of Buyer and Seller.* If the parties to the transaction have some pre-existing
623 relationship, it may indicate that the transaction terms do not reflect arm's-length negotiation,
624 which would limit the usefulness of the transaction data when measuring fair value.
- 625 • *Stated Rationale for Transaction.* When available, analysts should review press releases and
626 other corporate announcements describing the transaction to determine if the price paid (and
627 therefore the multiples and premiums observed) reflected any buyer-specific synergies or
628 other characteristics that render the transaction data unsuitable for use in a fair value
629 measurement.
- 630 • *Changes in Market Conditions.* Unlike guideline public company data, guideline transaction
631 data rarely lines up with the measurement date. Rather, some amount of time will have
632 elapsed between the occurrence of the observed transaction and the measurement date.
633 Depending on the length of the time gap, analysis of changes in market, economic or industry
634 conditions (as reflected in pertinent market indices or economic series) between the two dates
635 may be appropriate to assess the relevance of the observed transaction data to the fair value
636 measurement.
- 637 • *Stock Price and Volume Fluctuations Prior to Announcement.* In some cases, the stock of the
638 target company may exhibit unusual volatility and/or increased trading volume prior to the
639 formal announcement of the transaction. The existence of such phenomena may indicate that
640 the implied acquisition premium should be calculated with reference to an earlier, unaffected,
641 stock price.
- 642 • *Transaction Structure.* Especially for transactions involving private companies, an array of
643 transaction structure concerns can distort the reported data. For example:
- 644 ○ Acquirers may purchase either the stock or the assets of the target company.
645 ○ Certain corporate assets such as cash or real estate may not be included in the transaction.
646 ○ The consideration may include a note bearing interest at a rate other than market.
647 ○ The fair value of contingent consideration arrangements is often difficult to measure at
648 the transaction date (and may be excluded altogether from a reported price).
- 649 • *Transaction Process.* The valuation analyst should endeavor to ascertain whether the
650 transaction was the culmination of a deliberate selling and marketing effort administered by
651 competent investment bankers, a hostile takeover, a bidding war, or negotiation with a single
652 acquirer.
- 653 • *Transaction Status.* Referenced transactions may have been announced, but not yet closed at
654 the measurement date. In such cases, valuation specialists should carefully consider how
655 much weight to give to such transactions.

656 Given the limited availability of data regarding most change of control transactions, it is unlikely
657 that valuation specialists will be able to obtain a comprehensive understanding of the factors
658 described above for each transaction relied on. Nonetheless, by considering these factors,
659 valuation specialists might be able to exclude transaction data that is misleading for the subject
660 fair value measurement.

661 **Other Considerations – Historical Premium Data**

662 Available data regarding observed premiums in historical transactions present additional
663 challenges for valuation specialists.

664 In many cases, there will be a trade-off between the quantity of available premium data and the
665 quality of the data (in other words, the data’s relevance to the fair value measurement). Valuation
666 specialists should evaluate the relevance of referenced premium data by considering the degree to
667 which the target company is comparable to the subject entity, and whether the acquirer is
668 representative of market participants for the subject entity at the measurement date.

669 The number of referenced transactions can be increased by considering those occurring during a
670 longer period of time preceding the measurement date. However, transactions more proximate to
671 the measurement date are generally preferable, especially when consolidation trends within the
672 subject entity’s industry have evolved. When evidence from transactions near the measurement
673 date is limited or not available, valuation specialists may wish to consider industry premiums
674 over a longer period, such as one, three, or five years prior to the measurement date. However,
675 when doing so, valuation specialists should be careful to consider what effect, if any, changes in
676 economic, market, or industry factors may have had on the level of observed premiums over the
677 period analyzed.

678 The reported magnitude of the observed premium from a transaction is affected by the date
679 selected to serve as the basis for expressing the premium (the date of the Foundation price).
680 Valuation specialists should review the target company’s public share trading volume and price
681 fluctuations for the weeks leading up to the transaction announcement date to identify any
682 unusual or unexplained market activity. For example, if the target company had retained a
683 financial advisor to explore strategic alternatives, or negotiations with potential acquirers are
684 known to the public, it is preferable to calculate the transaction premium using a price from a
685 date before such information began to be incorporated into the target company’s publicly traded
686 stock price.

687 Valuation specialists routinely consider premiums implied by the difference in the transaction
688 price (on the announcement date) to the traded price from one to 30 days prior to the
689 announcement of the transaction. Valuation specialists may also calculate transaction premiums
690 based on the average stock price over a period. The Working Group believes that, if applied
691 consistently, such techniques can be used to improve the relevance and reliability of historical
692 premium data.

693 **Limitations Inherent in Observed Premium and Transaction Data**

694 As noted in the previous sections of this VFR Advisory, valuation specialists considering
695 observed premium and transaction data must be vigilant to ensure that the data has been
696 evaluated for comparability and relevance to the subject entity.

697 Beyond these issues, valuation specialists should be aware of more fundamental concerns that
698 may limit the usefulness of such data when measuring the fair value of a controlling interest,
699 such as:

- 700 • *Selection bias.* Acquisition premiums and other transaction data may be subject to selection
701 bias since the population of observed transactions is limited to those companies that have
702 been acquired. Some valuation specialists emphasize that such companies typically represent
703 only a small portion of the universe of companies available to be acquired. While not subject
704 to empirical verification, one potential conclusion from this observation is that the control
705 value of the much larger population of companies not acquired is not greater than the
706 companies' market capitalization because any incremental economic benefits would not be
707 sufficient to induce an acquirer to seek control.

708 In any case, since the premiums and transaction multiples applicable to the companies not
709 acquired cannot be observed, application of observed premiums or implied transaction
710 multiples to the subject entity may introduce an upward bias in the resulting fair value
711 measurement. Stated alternatively, transaction data may be drawn from a sample limited to
712 those companies for which the premiums would be highest. As a result, the valuation
713 specialist must carefully assess whether the subject entity is comparable to acquired
714 companies in the sample. The valuation specialist may consider the qualitative factors
715 discussed in the earlier section—*Business Characteristics Influencing Market Participant*
716 *Acquisition Premium*—to identify the most relevant observed premiums from the transaction
717 data that may be appropriate for the subject entity.

- 718 • *Acquirer-specific synergies.* Setting aside the potential for selection bias, data from closed
719 transactions may reflect acquirer-specific synergies that are not available to the relevant pool
720 of market participants. Specific synergies that are not available to market participants are
721 excluded from the definition of fair value. In most cases, the specific considerations
722 motivating the parties to the transaction cannot reliably be discerned from the available
723 transaction data. As a result, it is difficult for valuation specialists to precisely determine the
724 degree to which the observed premiums and transaction multiples are relevant when
725 measuring the fair value of the subject controlling interest.

726 • *Negative observed transaction premiums.* Referenced sources of transaction premium data
727 often include negative premiums. Negative transaction premiums are observed when the
728 price per share paid for a controlling interest is less than the contemporaneous Foundation
729 price. The Working Group believes that negative observed transaction premiums should be
730 disregarded when measuring fair value. The Working Group believes that, absent anomalous
731 circumstances with respect to either the market for the subject entity’s shares or the
732 transaction process for the controlling interest (neither of which would be relevant in
733 measuring fair value), market participants would be unwilling to sell to a controlling interest
734 acquirer at a price less than the Foundation price.

735 Each of these concerns underscores the importance of careful analysis of the incremental
736 economic benefits available to market participants through exercising the prerogatives of control
737 in a manner different from the prior owners. The Working Group affirms the value of identifying
738 and referencing observed historical transaction premiums and other transaction data; however,
739 exclusive reliance on such data is not consistent with best practices for fair value measurement.

740 **Assessing the Reasonableness of the Concluded Market Participant Acquisition** 741 **Premium**

742 A credible fair value measurement should include an assessment of the overall reasonableness of
743 the measurement, including the MPAP applied or implied by the analysis. While premiums are
744 conventionally expressed as a percentage of the Equity Foundation, or in some cases the TIC
745 Foundation, the Working Group believes that the overall reasonableness of the fair value
746 measurement should be assessed more broadly.

747 Defined as the difference between two measures of fair value (the controlling interest and
748 Foundation), the MPAP is—strictly speaking—a byproduct of the valuation process rather than
749 an exogenous input. While valuation specialists commonly estimate the MPAP as an input in
750 measuring the fair value of a controlling interest (when using the guideline public company
751 method, for example), the level of rigor of analysis would depend on the importance of the
752 MPAP to the fair value measurement.¹⁵ Valuation specialists may consider using the following
753 techniques to evaluate the reasonableness of the fair value measurement of a controlling interest
754 in a business enterprise:

755 • *Relative value measures.* When feasible, valuation specialists should calculate ratios of total
756 invested capital to relevant performance measures, such as revenue; Earnings Before Interest,
757 Taxes, Depreciation, and Amortization (EBITDA); or other industry-relevant metrics. When
758 an MPAP has been added to a Foundation value, comparison of the resulting relative value
759 measures to transaction multiples observed from the available transaction data might assist
760 the valuation specialist in confirming the reasonableness of the selected premium.

¹⁵ The Working Group believes that the discounted cash flow method (when using market participant cash flows and discount rates) and the guideline transaction method yield controlling interest indications; in such cases, application of a discrete market participant acquisition premium is inappropriate.

761 • *Prospective Return Analysis.* The MPAP is a function of the incremental economic benefits
762 anticipated by market participants from exercising the prerogatives of control. If the
763 guideline public company approach is the primary method used in measuring fair value, the
764 valuation specialist might consider also using a discounted cash flow approach and
765 calculating the discount rate implied by the effective earnings multiple. Comparing the
766 implied discount rate to the weighted average cost of capital for market participants can help
767 confirm the reasonableness of the MPAP.

768 • *Calibration to prior transactions in the subject entity.* In some instances, transactions for debt
769 or equity interests in the subject entity will have occurred during a relevant period of time
770 leading up to the measurement date. Market transactions may include those involving the
771 subject controlling interest, a noncontrolling interest in the subject entity, or other debt or
772 equity securities of the subject entity. The valuation specialist should carefully assess whether
773 the market transactions were arm's-length and orderly, and if so, calibrate the fair value
774 measurement to the terms of the market transaction, taking into account changes in the
775 market since the transaction and fundamental differences between the subject controlling
776 interest and the interest transacted.

777 • *Comparison to public market capitalization.* When measuring the fair value of reporting units
778 of public companies, the Working Group believes that the concluded aggregate fair value of
779 the reporting units (on a controlling interest basis) should be compared to the market
780 capitalization of the company on the measurement date. The MPAP for the entire company
781 implied by such a comparison might be a barometer of the overall reasonableness of the fair
782 value measurement. However, there are cases in which there would reasonably be a
783 difference between the aggregate control value of the reporting units and the control value of
784 the total company, such as a conglomerate for which the parts might be worth more or less
785 than the whole or a company whose shares are not actively traded.

786 Valuation specialists may consider myriad value indications when several valuation
787 methodologies are available and relevant for consideration in appraising a single valuation
788 subject. ASC 350-20-35-22 states that “the market price of an individual equity security (and
789 thus the market capitalization of a reporting unit with publicly traded equity securities) may not
790 be representative of the fair value of the reporting unit as a whole.” ASC 350-20-35-23 further
791 states that “measuring the fair value of a collection of assets and liabilities that operate together
792 in a controlled entity is different from measuring the fair value of that entity’s individual equity
793 securities . . . [t]he quoted market price of an individual equity security, therefore, need not be
794 the sole measurement basis of the fair value of a reporting unit.”

795 However, when the fair value of reporting units are estimated for ASC 350 purposes, whether for
796 entities with one or several reporting units, the entity’s market capitalization has been commonly
797 referenced as indirect value evidence even in cases where the unit of account prescribed by ASC
798 350 (i.e., the reporting unit) may be different from the quoted unit of measurement (i.e., the
799 individual shares of the entity). In the case of multiple reporting units, additional adjustments
800 have been made to present the best apples-to-apples comparison. In other words, the strength of
801 quoted evidence was compelling enough to consider even with an understanding that the quoted
802 price was not necessarily directly linked to the valuation subject.

803 In 2008, during the economic crisis, the market for and fair value of many assets and companies
804 declined and the level of difficulty for measuring value increased. At the 2008 AICPA National
805 Conference on Current SEC and PCAOB Developments, the SEC Staff offered its view of how
806 market capitalization may be used when assessing goodwill impairment. In particular, the SEC
807 staff indicated that they would expect objective evidence to support the reasonableness of
808 implied transaction premiums, whether a quantitative or qualitative analysis (or both) was used.
809 The SEC staff also indicated that while judgment may result in a range of reasonably possible
810 premiums, they expect the rigor of documentation to increase as the magnitude of the premium
811 increases.¹⁶

812 Whereas the practice of referencing market capitalization was in place before the 2008 SEC
813 speech, the Working Group believes the SEC staff’s views increased the usage of the market
814 capitalization reconciliation and it became more prevalent in audits of such entities. Since that
815 time, the FASB issued FASB ASU 2011-08. In the Basis for Conclusions in that document, the
816 FASB noted that the use of the qualitative screen will result in companies applying judgment on
817 when and how to perform the market capitalization reconciliation.¹⁷ Notwithstanding the
818 potential difficulty, the Working Group believes it is a best practice to perform an analysis of the
819 conclusion relative to the market capitalization.

820 In most cases, for publicly traded entities, it would be beneficial to perform a comparison of the
821 estimated fair values of the reporting units in aggregate with the entity’s market capitalization
822 and analyze the implied MPAP, if any. In such cases, the reasonableness of the implied MPAP
823 should be supported through quantitative and qualitative analyses. The rigor of the supporting
824 analyses and documentation will depend upon the magnitude of the implied control premiums,
825 particularly if the implied MPAP affects the conclusion regarding whether the reporting unit is
826 impaired.

¹⁶ Robert G. Fox III, “Speech by SEC Staff: Remarks before the 2008 AICPA National Conference on Current SEC and PCAOB Developments,” December 8, 2008, transcript, <https://www.sec.gov/news/speech/2008/spch120808rgf.htm>.

¹⁷ “BC34. The Board recognizes that many public entities reconcile the sum of the fair values of each reporting unit to the entity’s market capitalization. The Board acknowledged that the amendments in this Update may result in entities applying more judgment about when and how to perform this evaluation; however, it concluded that this factor should not prohibit an entity from utilizing the qualitative assessment.”

827 The majority of the implied premium will likely be supported through the enhancement in cash
828 flows or reduction in risk (or both), as discussed previously. The illustrative examples presented
829 in a subsequent section of this VFR Advisory provide a potential quantitative framework that
830 may be considered to support the implied premium. Additionally, the qualitative factors
831 discussed in the earlier section—*Business Characteristics Influencing Market Participant*
832 *Acquisition Premium*—may be considered to support the implied MPAP relative to the range of
833 observed premiums from the transaction data that may be applicable for the subject entity. In
834 certain situations, albeit rare, what appears to be an implied MPAP may result from transactions
835 in the company’s stock that are not orderly (e.g., a distressed sale).¹⁸ This would render the
836 comparison between the market capitalization and the estimated fair value to be not very
837 meaningful.

838 The Working Group believes that use of techniques like those described above is a vital part of
839 measuring the fair value of controlling interests in business enterprises. These tests of
840 reasonableness allow the valuation specialist to demonstrate to auditors, regulators, and other
841 interested parties that the MPAP is grounded in identifiable incremental economic benefits
842 available to the relevant pool of market participants, thereby increasing the relevance and
843 reliability of the associated fair value measurement.

844 This Advisory includes an illustrative example for analyzing MPAPs (see *Selecting and*
845 *Assessing Market Participant Acquisition Premiums—Example*; a subsequent section of this
846 paper located on page 42).

¹⁸ ASC 820-10-35-54D.

THE FAIR VALUE CONTEXT

847 Valuation is context dependent. Valuation specialists refer to standards of value to define the
848 relevant context for valuation. The objective of this Working Group is to develop best practices
849 for the valuation of controlling interests in business enterprises under the standard of fair value
850 for financial reporting. The following sections of this VFR Advisory provide commentary on the
851 definition of fair value and identify the most common instances in financial reporting requiring
852 measurement of the fair value of controlling interests in business enterprises.

853 The Fair Value Definition

854 ASC 820, *Fair Value Measurement* (ASC 820) defines fair value (in its glossary) as “[t]he price
855 that would be received to sell an asset or paid to transfer a liability in an orderly transaction
856 between market participants at the measurement date.”

857 The definition of fair value and associated guidance create a unique lens through which to view
858 the valuation of controlling interests in business enterprises. A comprehensive and detailed
859 review of the fair value definition is beyond the scope of this VFR Advisory and readers are
860 assumed to have a basic understanding of the standard. However, given the fundamental
861 significance of fair value to the subject of this VFR Advisory, it is important to briefly review a
862 number of key fair value concepts.

863 Exit Price

864 Fair value is defined as the price received to sell an asset; in other words, fair value is an exit
865 price from the perspective of a market participant holding the asset. In contrast, an entry price
866 would be the price paid to acquire an asset. Despite the conceptual distinction, entry and exit
867 prices for a subject controlling interest in a business enterprise may often be indistinguishable.
868 Nonetheless, valuation specialists should acknowledge that the objective of a fair value
869 measurement is to determine the exit price as of the measurement date and be alert for situations
870 in which the exit and entry prices may differ.

871 Principal (or Most Advantageous) Market

872 According to ASC 820, the assumed transaction underlying the fair value measurement occurs in
873 the principal market for the subject asset. The principal market is the market with the greatest
874 volume and level of activity for the asset. Further, the principal market is one to which the
875 reporting entity has access at the measurement date. In the absence of a principal market, ASC
876 820 specifies that fair value should be measured as the price in the market in which the price
877 received to sell the subject asset is maximized (the most advantageous market).

878 With respect to controlling interests in business enterprises, the Working Group believes that the
879 principal market is that for mergers and acquisitions, in which strategic, financial, and
880 conglomerate buyers evaluate controlling interests in business enterprises considering the
881 economic benefits expected from ownership of such interests in the context of the perceived risk
882 and expected rewards of the investment.

883 **Market Participants**

884 ASC 820 defines market participants as buyers and sellers in the principal (or most
885 advantageous) market for the subject asset. First, market participants are assumed to possess
886 sufficient knowledge regarding the subject asset. In other words, market participants are
887 competent to assess and understand information regarding the subject asset that would be
888 obtained through usual and customary due diligence. This attribute of market participants also
889 implies that the subject asset has had appropriate exposure to the relevant market.

890 Second, market participants have the ability and/or financial wherewithal to engage in a
891 transaction involving the subject asset. In other words, market participants are not subject to
892 external financial constraints that would impinge upon their ability to purchase the subject asset.
893 Market participants are, however, subject to the internal financial constraint of rational economic
894 behavior and the requirement that expected return be commensurate with perceived risk. Finally,
895 market participants are willing to transact for the subject asset. Market participants are motivated
896 to transact by potential financial returns, but are not under any external compulsion or force.

897 Fair value is to be measured from the perspective of market participants, and valuation inputs
898 observed directly from the behavior of market participants are given greater weight than those
899 that are unobservable. Even when specifying unobservable inputs, valuation specialists are
900 required by the guidance in ASC 820 to make assumptions consistent with the assumptions
901 market participants would make, not necessarily those of the reporting entity.

902 The Working Group elected to introduce the MPAP in this VFR Advisory, in part, to emphasize
903 the importance of market participants' perspectives when measuring the fair value of a
904 controlling interest in a business enterprise.

905 **Highest and Best Use**

906 The fair value of nonfinancial assets (such as controlling interests in business enterprises) is
907 measured with respect to the highest and best use of the assets; for business enterprises, the
908 highest and best use of the underlying assets is evaluated from the perspective of market
909 participants. ASC 820 states that the value of nonfinancial assets may be maximized by their use
910 (1) in conjunction with other assets and liabilities (previously referred to as the “in use” valuation
911 premise), or (2) on a stand-alone basis (previously referred to as the “in exchange” valuation
912 premise).¹⁹ ASC 820 stipulates that, when measuring the fair value of a nonfinancial asset, the
913 asset’s highest and best use should be evaluated from the market participants’ perspective, even
914 if such use differs from that intended by the reporting entity. The assumed highest and best use of
915 the asset should be physically possible, legally permissible, and financially feasible.

916 **Asset Characteristics**

917 Fair value measurement should incorporate those characteristics of the subject asset that market
918 participants would consider in valuing the asset, such as condition and location. With respect to
919 an ownership interest in a business enterprise, the degree of control vested in the interest is a
920 relevant characteristic that would be considered by market participants and should, therefore, be
921 reflected when measuring fair value. Transaction costs are not characteristics of the subject asset
922 and, hence, should not be considered when measuring fair value, although transactions costs are
923 considered when identifying the most advantageous market.

924 ASC 820 clarifies, however, that entity-specific assumptions that are not consistent with the
925 market participants’ perspective are not relevant to fair value measurement.

926 **Fair Value Measurements of Controlling Interests in Business Enterprises**

927 As noted in the previous section, the relevance of a valuation adjustment such as the MPAP in
928 measuring fair value is determined by the characteristics of the subject asset that would be
929 considered by market participants in valuing the asset. The boundaries of the subject asset are
930 delineated with respect to the unit of account, defined in ASC 820 (the glossary) as “the level at
931 which an asset or liability is aggregated or disaggregated in a Topic for recognition purposes.”

932 Three instances have been identified where the value of a controlling interest might need to be
933 estimated: goodwill impairment testing; portfolio valuation; and accounting for business
934 combinations in step acquisitions (Step Transactions).

¹⁹ ASU 2011-04 clarifies that the concepts of “highest and best use” and “valuation premise” do not apply to financial assets or liabilities.

935 **Goodwill Impairment Testing**

936 The Working Group observes that goodwill impairment testing is the most common fair value
937 measurement on a controlling interest basis. ASC 350 provides guidance regarding periodic
938 goodwill impairment testing. The unit of account for such testing is the reporting unit, which is
939 defined as an operating segment or one level below an operating segment (i.e., a component).
940 Consistent with the unit of account, ASC 350 acknowledges that the fair value of a controlling
941 interest in a reporting unit may exceed the Foundation. ASC 350 explicitly acknowledges the
942 relevance of valuation premiums when measuring the fair value of reporting units. Using the
943 terminology adopted in this VFR Advisory, an MPAP may be appropriate when measuring the
944 fair value of a reporting unit. ASC 350 states:

945 Substantial value may arise from the ability to take advantage of synergies and other benefits
946 that flow from control over another entity. Consequently, measuring the fair value of a
947 collection of assets and liabilities that operate together in a controlled entity is different from
948 measuring the fair value of that entity's individual equity securities. An acquiring entity often
949 is willing to pay more for equity securities that give it a controlling interest than an investor
950 would pay for a number of equity securities representing less than a controlling interest. That
951 control premium may cause the fair value of a reporting unit to exceed its market
952 capitalization. The quoted market price of an individual equity security, therefore, need not
953 be the sole measurement basis of the fair value of a reporting unit.

954 **Portfolio Valuation**

955 Investment companies such as private equity funds, hedge funds, and venture capital funds are
956 generally required to report the fair value of investment holdings in accordance with ASC 946,
957 *Investment Companies* (ASC 946). The funds of these companies often own assets that would be
958 valued using Level 2 or Level 3 inputs under the fair value hierarchy established by ASC 820
959 because current market prices are not readily available. Due to the often complex ownership
960 structures of the underlying companies as well as relationships among the investors, the Working
961 Group believes that understanding control and the related effect on fair value can be particularly
962 challenging for these investments.

963 At the date of this writing, the AICPA Private Equity/Venture Capital Task Force was
964 developing a guide for investment companies.²⁰ It is the Working Group's understanding that
965 issues related to control and MPAP for these situations will be discussed, and it is recommended
966 that readers monitor the development of this guide.

967 **Acquisition Method for Step Acquisitions**

968 In certain transactions, control is gained and business combination accounting is required, but
969 some portion of the target equity is not acquired by the new controlling owner on the acquisition

²⁰ *Valuation of Portfolio Company Investments of Venture Capital, Private Equity Funds and other Investment Companies.*

970 date. ASC 805 prescribes the accounting treatment for business combinations achieved in stages
971 (referred to as step acquisitions), as well as for partial acquisitions where control is gained. For
972 such transactions, the relevant guidance requires the acquirer to measure all of the identifiable
973 assets and liabilities of the target, any noncontrolling interest in the target that remains in the
974 hands of the other owners, and any previously held equity interest.

975 For example, if in the initial step of the transaction the acquirer purchases 60 percent of the
976 outstanding shares of the target, the acquirer is required to measure the fair value of the
977 noncontrolling interest held by others (the 40 percent interest not acquired). The fair value of the
978 noncontrolling interest affects the amount of goodwill (or gain from bargain purchase) at the
979 acquisition date.

980 When a noncontrolling interest is present in a transaction, the fair value of that interest may
981 reflect a potential reduction in value from the *pro rata* share of the value of the business on a
982 controlling interest basis. As noted in ASC 805: “The acquirer usually is the combining entity
983 that pays a premium over the pre-combination fair value of the equity interests of the other
984 combining entity or entities.” If the market participants for the noncontrolling interest are not
985 expected to have access to the full range of incremental economic benefits anticipated by the
986 controlling interest acquirer, the fair value of the noncontrolling interest should reflect the
987 associated decrement to value. If applicable, incremental return requirements for market
988 participants evaluating a noncontrolling interest would likewise be expected to reduce the fair
989 value of the noncontrolling interest.²¹

990 Whether the fair value of the noncontrolling shares is measured directly through a valuation
991 model or through adjustment of the indicated fair value of the controlling interest acquired in the
992 transaction, the difference between the two fair value measurements should be supported
993 following the best practices for MPAPs set forth in this VFR Advisory.

994 We note that in most cases the improvements to a business that are expected to be made by the
995 controlling shareholder will also benefit the noncontrolling interest. Therefore, it is common that
996 upon change of control, no value differential arising from control-related issues exists between
997 controlling and noncontrolling interests. However, certain less common circumstances may arise
998 that do create such a differential. Some examples of this follow. Acquisition synergies flowing to
999 an acquirer’s legacy operations where the noncontrolling interest represents an interest in the
1000 newly acquired operations only, such that the noncontrolling interest will not participate in the
1001 value enhancements to the legacy assets. And clearly, if the noncontrolling interest shares have
1002 features that are different from the controlling interest shares, this may also create a value
1003 differential. Also, while full discussion of the topic is not within the scope of this VFR Advisory,
1004 we note for clarity that there is a potential for valuation differential between the noncontrolling
1005 and controlling interests due to differences in marketability.

²¹ The Working Group notes that if the pro rata fair value of the noncontrolling interest differs from the pro rata value of the controlling interest, the sum of the two positions will be less than 100 percent of the enterprise value. In other words, the decrement to the fair value of the noncontrolling interest does not accrue to the benefit of the controlling interest.

SELECTING AND ASSESSING MARKET PARTICIPANT ACQUISITION PREMIUMS – EXAMPLES

1006 The following examples are provided to illustrate best practices in both estimating MPAPs and
1007 reviewing the reasonableness of MPAPs implied by a fair value measurement in accordance with
1008 ASC 820.²² The level of analytical detail appropriate to support a given fair value measurement,
1009 and any related MPAP, is a matter of judgment and should be selected with regard to factors
1010 relevant for the accounting measurement under consideration. Relevant factors for consideration
1011 under ASC 350, goodwill impairment testing, would include:

1012 • The magnitude of the premium implied by comparison of the fair value and the market
1013 capitalization (for publicly traded entities). The Working Group believes the higher the
1014 implied premium, the higher level of supporting analysis required.

1015 • The magnitude of the difference between the fair value measurement and the carrying value
1016 of the reporting unit. Larger “cushions” between carrying value and fair value will generally
1017 require less analytical support for the MPAP (whether implied or directly applied). On the
1018 other hand, smaller cushions will generally result in greater scrutiny, indicating that more
1019 analytical detail is appropriate. In cases in which impairment would be indicated but for the
1020 MPAP, valuation specialists should anticipate that auditors will require the most substantive
1021 support of the MPAP.

1022 • The magnitude of the premium implied by the difference between the indicated value under
1023 the discounted cash flow method (using market participants’ control level cash flows) and the
1024 indicated value under the guideline public company method (prior to application of an
1025 MPAP). The greater the implied premium, the more detailed the procedures required to
1026 substantiate the implied premium.

1027 The following examples address two similar fact patterns related to a Step 1 goodwill impairment
1028 test. The first addresses a case in which the MPAP included is critical to the pass/fail result of the
1029 test. The second addresses the same company and basic fact pattern, but assumes a significantly
1030 lower carrying value, resulting in a test for which the MPAP is not a determining factor. Note
1031 that in both examples, the tests are the same in terms of the fundamental methods considered.
1032 However, the level of detail provided in support of MPAP-related assumptions in the second
1033 example is reduced to reflect the lack of MPAP significance in relationship to the test result.

²² The assumed fact pattern was selected to provide the greatest clarity and ease of exposition. Practitioners are unlikely to encounter exactly such circumstances; however, the Working Group believes the presentation applies to a broad range of situations.

1034 **Conglomerate, Inc. and Subject Co. Reporting Unit**

1035 Conglomerate, Inc. (Conglomerate) comprises three wholly owned subsidiaries, each of which is
1036 a separate reporting unit for purposes of ASC 350 compliance. The shares of Conglomerate are
1037 listed on a public exchange. At the date of Conglomerate’s goodwill impairment test, the shares
1038 of Conglomerate traded at \$10.00 per share, with 105.0 million shares outstanding and total
1039 interest-bearing debt with a fair value of \$817 million. Therefore, market value of invested
1040 capital (MVIC) for Conglomerate is established at \$1,867 million. The following discussion will
1041 address the analysis of one of the three reporting units, Subject Co., as well as the overall market
1042 capitalization reconciliation analysis for Conglomerate. The analyses of the second and third
1043 reporting units are not shown here but, for purposes of the market reconciliation discussion, are
1044 assumed to have been performed in a manner similar to that described for Subject Co.

1045 **Scenario One Example**

1046 **Initial MPAP Consideration**

1047 As a first step in the analysis of the Subject Co. and other Conglomerate reporting unit fair
1048 values, the general facts and circumstances are reviewed to assess the likely level of importance
1049 of the MPAP to the overall test result. The following facts are observed:

- 1050 • Conglomerate MVIC: \$1,867 million
- 1051 • The reporting unit carrying values on a TIC basis:

| | Subject Co. Reporting Unit | Reporting Unit 2 | Reporting Unit 3 | Conglomerate Total |
|---------------------------------|-------------------------------|---------------------|---------------------|-----------------------|
| 1052 Carrying Values (millions) | \$690 | \$420 | \$870 | \$1,980 |

1053 • Premium over MVIC if Conglomerate fair value (FV) equals carrying value =
1054 $\$1,980/\$1,867 - 1 = \underline{6.1\%}$

1055 • Aggregate Conglomerate latest twelve months (LTM) Revenue and EBITDA are \$1,750
1056 million and \$295 million, respectively

1057 • Guideline public company information for Conglomerate as a whole indicates a range of
1058 multiples as follows:

1059 LTM Revenue: .59X – 1.23X

1060 LTM EBITDA: 4.5X to 7.0X

- 1061 • Implied multiples if Conglomerate FV equals carrying value =

1062 Carrying value/LTM Revenue: $\$1,980/\$1,750 = 1.13X$

1063 Carrying value/LTM EBITDA: $\$1,980/\$295 = 6.71X$

1064 There are two factors that suggest a more robust approach is appropriate. The carrying value-
1065 implied LTM multiples are in the high end of the range of observed guideline company
1066 multiples. This, in combination with the fact that a premium over MVIC is required for
1067 Conglomerate to pass the ASC 350 Step 1 test, indicates that the MPAP is likely to require a
1068 substantial level of support if a passing conclusion is reached for the Step 1 test. Similarly, if the
1069 unit fails, the MPAP will be critical to measuring the concluded impairment amount. Note that
1070 the MPAP and multiples required to pass all reporting units in a Step 1 test are likely to be higher
1071 than the “minimum required” levels calculated in this way as the aggregate company value is not
1072 likely to be distributed in exact proportion to the reporting unit carrying values.

1073 **Income Approach – Subject Co.**

1074 Following the initial MPAP considerations as described, a discounted cash flow analysis is
1075 performed to obtain a fair value indication for Subject Co. for use in Step 1 of the annual
1076 goodwill impairment test. Consistent with the guidance in ASC 820, the assumptions underlying
1077 this discounted cash flow analysis must reflect the perspective of market participants. Therefore,
1078 all available information is considered in assessing the appropriate cash flow forecast for use in
1079 the analysis. This information includes current management budgeting and forecasting processes,
1080 historical performance levels and historical performance vs. budget/forecast, guideline company
1081 performance metrics, and other specific facts and circumstances relevant to Subject Co.’s
1082 expected performance.

1083 In assessing the appropriate controlling market participants’ forecast, three specific areas of
1084 economic benefit are considered as possibly accruing to the control buyer of Subject Co. and
1085 gather the following information regarding each:

- 1086 • Revenue Synergies: Research regarding the likely market participants for Subject Co.
1087 indicates that most of the buyers would benefit from revenue synergies related to inclusion of
1088 Subject Co.’s products in the broader, better-marketed product offerings of the buyer
1089 companies. The estimated revenue increase related to this benefit is reflected in higher
1090 revenue growth rates in forecast years one through five of 2.5 percent, 2.5 percent, 2.0
1091 percent, 1.5 percent, and 1.0 percent, respectively. These figures represent incremental
1092 growth above growth expected for Subject Co. on a stand-alone basis. As the market
1093 participant group is dominated by companies that would benefit from this synergy, it is
1094 appropriate to include the related cash flow benefits in the Subject Co. forecast. Note that for
1095 purposes of this example, the simplifying assumption is made that costs are fully variable in
1096 relation to the revenue synergy.

1097 • Operating Expense Savings: The possibility of a control acquisition generating cost savings
1098 from elimination of duplicative support functions and/or economies of scale in purchasing is
1099 considered. However, a high percentage of these expenses are variable in nature and the fixed
1100 portion, which could give rise to acquisition synergies, is insignificant in relation to the value
1101 of Subject Co. Regarding potential economies of scale, the materials and services required by
1102 Subject Co. operations are substantially different from those required in the operations of all
1103 but one of the market participant group. Therefore, no operating expense-related market
1104 participant synergies are included in the Subject Co. forecast.

1105 • Cost of Capital: The Company's credit rating is below that of the market participants,
1106 resulting in a higher cost of debt. It is determined that market participants would approach
1107 pricing decisions regarding Conglomerate or the separate reporting units using cost of debt
1108 assumptions in line with their own long-term financing costs as the target operations would
1109 be closely integrated with the buyers' existing operations and financial risk would be
1110 reduced. Therefore, in estimating the appropriate Weighted Average Cost of Capital (WACC)
1111 for use in the Subject Co. analysis, the cost of debt is reduced to the observed market
1112 participants' level to reflect the economic benefits of acquisition relative to financing
1113 synergies.

1114 As shown in Exhibit A (see appendix), the indicated fair value of the Subject Co. total invested
1115 capital indicated by the discounted cash flow analysis is \$740 million. This analysis has been
1116 simplified for the purposes of this VFR Advisory, and it is assumed that commonly accepted
1117 valuation methods and procedures would be followed in the determination of fair value.

1118 **Market Approach – Subject Co.**

1119 Where meaningfully comparable market information is available, it should be included in the fair
1120 value analysis. The following exhibit includes a form of market approach analysis, which is
1121 included in the determination of the final value conclusion for Subject Co. on a controlling basis.
1122 The income and market approaches should be used in a detailed, quantitative manner in instances
1123 where the MPAP is significant to the accounting outcome (assuming sufficient and reliable
1124 information is available to perform both approaches). In instances where the MPAP is not
1125 significant to the accounting outcome, the Working Group believes that best practices would still
1126 include consideration of both income and market value concepts, but would allow for a less
1127 detailed, qualitative application of one or more portions of the analysis. This fact pattern is
1128 discussed in the Scenario Two example in a subsequent section. Note that where guideline
1129 transaction data is available, it should be used in line with standard valuation practices. However,
1130 for purposes of simplification of this VFR Advisory, the transaction method has been omitted
1131 and only the guideline public company method of the market approach is shown.

1132 The following table summarizes relevant performance and valuation measures for the group of
1133 guideline public companies and the resulting TIC Foundation Value for Subject Co.

| Guideline Public Company Data | | | | | | | | |
|--------------------------------------|--|-------------------|--------------------------------|---------------------------------|--|-----------------------|----------------------|--|
| | LTM Revenue | LTM EBITDA | Projected EBITDA Margin | Est. 5-Yr Revenue Growth | Market Value (Invested Capital) | MVIC / Revenue | MVIC / EBITDA | |
| Company A | \$29,000 | \$5,220 | 18.0% | 5.0% | \$31,320 | 1.08 | 6.0 | |
| Company B | \$5,100 | \$893 | 17.5% | 6.0% | \$6,248 | 1.23 | 7.0 | |
| Company C | \$13,200 | \$2,508 | 19.0% | 5.0% | \$13,794 | 1.05 | 5.5 | |
| Company D | \$2,400 | \$408 | 17.0% | 4.5% | \$2,040 | 0.85 | 5.0 | |
| Company E | \$9,000 | \$1,170 | 13.0% | -2.0% | \$5,265 | 0.59 | 4.5 | |
| MEDIAN | \$9,000 | | 17.5% | 5.0% | | 1.05 | 5.5 | |
| AVERAGE | \$11,740 | | 16.9% | 3.7% | | 0.96 | 5.6 | |
| Subject Company | \$600 | \$93 | 17.0% | 6.1% | | | | |
| Selected Multiple | | | | | | 1.10 | 6.5 | |
| Value Indications | | | | | | | | |
| | Value Based on LTM Revenue | | | | | | \$660 | |
| | Value Based on LTM EBITDA | | | | | | \$605 | |
| | Concluded Value - Marketable, Noncontrol Basis (TIC Foundation Value) | | | | | | \$630 | |
| Note: All in US\$ Millions | | | | | | | | |

1134 Using this information, additional analysis of the guideline company characteristics and other
1135 traditional market approach considerations not shown, it is determined that revenue and EBITDA
1136 multiples appropriate for application in the fair value analysis of Subject Co., as indicated by the
1137 guideline public company analysis, are 1.10X and 6.5X, respectively. These multiples are based
1138 on characteristics of Subject Co. under current stewardship. A Subject Co. TIC Foundation Value
1139 indication of \$630.0 million is concluded. The application of an MPAP to this Foundation Value
1140 is then considered to obtain a market-derived value indication on a controlling basis.²³

1141 **MPAP Estimation – Cash Flow Value**

1142 A first step in determining the MPAP for application to the market-derived Foundation Value is a
1143 review of the market participants' acquisition synergies included in the cash flow analysis, as
1144 described in the Income Approach section above. The range of market premiums paid in recent
1145 control acquisitions of public companies is also reviewed.

²³ A discussion of the treatment of cash is beyond the scope of this Advisory. However, it generally is agreed that excess (nonoperating) cash should be excluded from a value to which an MPAP would be applied.

1146 To quantify the premium implied by the market participants' synergies included in the cash flow
 1147 analysis, a second cash flow analysis is run excluding these benefits. This analysis, shown in
 1148 Exhibit B (see appendix), eliminates the revenue growth enhancements described for years one
 1149 through five related to inclusion of Subject Co.'s products in the broader, better-marketed
 1150 product offerings of the market participants. This analysis also shows an increase in the discount
 1151 rate from 10.0 percent to 10.5 percent, reflecting the elimination of the debt financing benefits
 1152 attributable to acquisition.

1153 The following table compares the metrics underlying the cash flow-based fair value measurement
 1154 of Subject Co. with those underlying the Foundation Value cash flow analysis, as derived from
 1155 comparison of the market participants' and Foundation cash flow analyses (Exhibits A and B).

| | Foundation Value | Fair Value |
|---|-----------------------------|-----------------------|
| Expected 5-yr Compound Annual Revenue Growth | 6.1% | 8.0% |
| Gross Profit Margin | 60.0% | 60.0% |
| Operating Expenses: | | |
| Research & Development | 5.0% | 5.0% |
| Distribution Expenses | 13.5% | 13.5% |
| Selling Expenses | 17.5% | 17.5% |
| Other General & Administrative | 7.0% | 7.0% |
| E BITDA Margin | 17.0% | 17.0% |
| Weighted Average Cost of Capital | 10.5% | 10.0% |
| | | |
| Total Invested Capital Value | \$660 | \$740 |
| TIC / Trailing Revenue | 1.1 | 1.2 |
| TIC / Trailing E BITDA | 7.1 | 8.0 |
| | | |
| MPAP Implied by the Cash Flow Analyses | | 12.1% |

1156 Based on the results shown, the MPAP indicated by the cash flow analyses described is 12.1
 1157 percent on a TIC basis (21.6 percent on an equity basis at Conglomerates' actual debt/equity ratio
 1158 of 44/56).²⁴

1159 **Observed Transaction Premiums**

1160 Consideration of premiums observed in guideline transactions is often appropriate; however,
 1161 such comparisons should be made carefully.

1162 Observed transaction premiums (using an Equity Foundation, as traditionally stated) for three
 1163 guideline transactions range from 25.0 percent to 58.7 percent, as shown below.

²⁴ Equity Premium% = (TIC Premium%)/(Equity%) = 12.1% / 56.0% = 21.6%

| Guideline Control Premiums | | | | | | | | |
|----------------------------|-----------------------------------|-----------------------|----------------------------------|-----------------------------|-------------------------------|----------------------------------|--|---|
| | Transaction Price Per Share | Shares Outstanding | Transaction Value (Equity) | Interest Bearing Debt | Transaction Value (TIC) | Unaffected Price Per Share | Observed Transaction Premium (Equity) | Observed Transaction Premium (TIC) |
| Company F | \$37.50 | 53.7 | \$2,013 | \$3,500 | \$5,513 | \$30.00 | 25.0% | 7.9% |
| Company G | \$61.00 | 105.9 | \$6,460 | \$2,900 | \$9,360 | \$45.00 | 35.6% | 22.1% |
| Company H | \$25.00 | 240.8 | \$6,020 | \$1,000 | \$7,020 | \$15.75 | 58.7% | 46.5% |
| MEDIAN | | | | | | | 35.6% | 22.1% |
| AVERAGE | | | | | | | 39.8% | 25.5% |

Note: All in US\$ Millions Except Per Share Amounts

1164 This fact pattern demonstrates that relying only on observed transaction premiums to support a
1165 concluded or implied MPAP is potentially misleading. Since such premiums have traditionally
1166 been expressed as a percentage of Equity Foundation, differences in leverage between Subject
1167 Co. and the acquired companies can produce unreliable fair value measurements. For example,
1168 Company F is highly leveraged, causing the observed premium using an Equity Foundation to be
1169 materially higher than when expressed as a percentage TIC Foundation. When sufficient data is
1170 available to permit the calculation, expressing premiums as a percentage of total invested capital
1171 provides a more reliable basis of comparison across companies and is consistent with best
1172 practices. When expressed on a total invested capital basis, the implied premium for Subject Co.
1173 is 12.1 percent.

1174 If an analyst compared the equity-based MPAP for Subject Co. (21.7 percent) to the range of
1175 observed equity-based premiums for the guideline transactions (25.0 percent to 58.7 percent), the
1176 analyst might conclude that the fair value of Subject Co. is understated. However, on a total
1177 invested capital basis, the implied MPAP for Subject Co. falls within the range of the guideline
1178 premiums.

1179 Each acquiree presents a different set of potential economic benefits that may or may not be
1180 comparable to those of Subject Co. For example, assume Company H reported a historical
1181 EBITDA margin of 13 percent, below that of Subject Co. and at the low end of the public peer
1182 group. The relatively low margins of Company H may correspond to superior cash flow
1183 enhancement opportunities, and therefore a higher MPAP. In this instance, applying an MPAP
1184 equal to the transaction premium observed for Company H to Subject Co. would potentially
1185 result in an overstatement of fair value.²⁵

²⁵ The Working Group observes that it may be appropriate to augment such analysis with a multi-year perspective on financial results.

1186 However, as discussed earlier, observed transaction premium data may be informative. The
1187 observed transaction premiums provide a composite view of the control benefits of cash flow
1188 enhancements and/or lower required rates of return perceived by the acquirers in the observed
1189 transactions. This may help to establish the reasonableness of the cash flow benefits assumed (or
1190 implied) by the fair value measurement under consideration. However, exclusive reliance on
1191 observed transaction premiums without careful analysis of relative financial performance,
1192 valuation multiples, and other metrics can result in an unreliable fair value measurement.

1193 **MPAP Conclusion**

1194 Multiple cash flow and cost of capital sources of MPAP for Subject Co. were reviewed, as well
1195 as the range of premiums observed in relevant recent transactions. Based on this analysis, a TIC-
1196 basis MPAP of 12 percent is selected for application in the guideline company market approach.
1197 This determination is supported primarily by the cash flow synergies that market participants
1198 would be expected to consider in pricing an acquisition of Subject Co. Additional supporting
1199 evidence was shown in the effects on the WACC as well as recent market transaction premiums
1200 paid for similar companies.

1201 **Subject Co. Fair Value Conclusion**

1202 Based on the income and market analyses described, a fair value of \$725.0 million is concluded
 1203 for Subject Co., which passes the Step 1 ASC 350 test, as follows:

| | | |
|--|-------------|----------------|
| Control Value Indication: Income Approach | | \$740.0 |
| Minority, Noncontrol Indication: Market Approach | | \$630.0 |
| Concluded MPAP, TIC Basis | | 12.0% |
| Control Value Indication: Market Approach | | \$705.6 |
| Concluded Fair Value of Subject Co. | | \$725.0 |
| Carrying Value: Subject Co. | | \$690.0 |
| ASC 350 Pass/(Fail) | Pass | \$35.0 |
| Pass Percentage | | 5.1% |
| Note: All in US\$ Millions | | |

1204 **Reconciliation to Market Capitalization**

1205 Conglomerate is a publicly traded company comprising three reporting units. Following the
 1206 procedures described for the Subject Co. reporting unit, fair values have been estimated for each
 1207 of the three units. The total concluded value of all three of the Conglomerate reporting units is
 1208 \$2,080 million and all three units are concluded to have passed the Step 1 test. A critical step in
 1209 the valuation specialist's review of the reasonableness of the initial conclusions is a
 1210 reconciliation of the results to Conglomerate's market value.

1211 The MVIC of Conglomerate as of the testing date, as described in the Initial MPAP
 1212 Consideration section above, is \$1,867 million. Therefore, the premiums implied by the initial
 1213 value conclusions are as shown in the following table.

| | | |
|--|--|------------------|
| Concluded Fair Value of Conglomerate TIC (sum of reporting units) | | \$2,080.0 |
| Test Date Price of Conglomerate Shares | | \$10.0 |
| Outstanding Conglomerate Shares (millions) | | 105.0 |
| Conglomerate Equity Market Capitalization | | \$1,050.0 |
| Fair Value of Conglomerate Debt | | \$817.0 |
| MVIC of Conglomerate | | \$1,867.0 |
| MPAP Implied by Fair Value Conclusion | | \$213.0 |
| MPAP Implied by Fair Value Conclusion (Equity Foundation basis) | | 20.3% |
| MPAP Implied by Fair Value Conclusion (TIC Foundation basis) | | 11.4% |
| Note: All in US\$ Millions Except Price Per Share | | |
| The Working Group notes that, as a practical expedient, adjustments are not made to account for normalized operating levels of cash. | | |

1214 The reconciling 11.4 percent TIC Foundation MPAP (20.3 percent on an Equity basis) is shown
 1215 to be reasonable based on the following:

1216 • Specific cash flow benefits analysis (the cash flow benefits seen in the value differential
 1217 supported in Exhibits A and B)

1218 • Cost of capital benefits of acquisition described for Subject Co.

1219 Note that the economic benefits described for Subject Co. reporting unit are also assumed to be
 1220 present at the same approximate level in the other reporting units not shown.

1221 **Scenario Two Example**

1222 As discussed above, determination of the level of detail appropriate to support MPAP
 1223 assumptions is based on the likely significance of the MPAP in relationship to the test result. For
 1224 example, if it is unlikely that the MPAP will be a determining factor in the pass/fail result of an
 1225 ASC 350 Step 1 test, then the level of detail may be reduced from that included in the analysis
 1226 shown in the Scenario One example in the prior section. To illustrate this concept, the Scenario
 1227 One example is reconsidered with revision to the carrying values of the reporting units. The
 1228 carrying value revisions, which represent the only change to the Subject Co. fact pattern
 1229 described previously, are shown in the following table:

| | Subject Co. Reporting Unit | Reporting Unit 2 | Reporting Unit 3 | Conglomerate Total | |
|------|--|---------------------|---------------------|-----------------------|---------|
| 1230 | Carrying Values (millions) Revised for Scenario Two | \$440 | \$350 | \$500 | \$1,290 |

1231 **Initial MPAP Consideration (revised carrying value example)**

1232 With the lower carrying values shown, the valuation specialist’s first step assessment of the
 1233 likely level of importance of the MPAP to the overall test result provides the following revised
 1234 fact pattern:

1235 • Conglomerate MVIC: \$1,867 million (unchanged)

1236 • The reporting unit carrying values on a TIC basis:

| | Subject Co. Reporting Unit | Reporting Unit 2 | Reporting Unit 3 | Conglomerate Total | |
|------|-------------------------------|---------------------|---------------------|-----------------------|---------|
| 1237 | Carrying Values (millions) | \$440 | \$350 | \$500 | \$1,290 |

1238 • Premium over MVIC if Conglomerate FV equals carrying value = $\$1,290/\$1,867 - 1 =$
 1239 -30.9%

1240 • Aggregate Conglomerate LTM Revenue and EBITDA are \$1,750 million and \$295
1241 million, respectively (unchanged)

1242 • Guideline public company information for Conglomerate as a whole indicates a range of
1243 multiples as follows (unchanged):

1244 LTM Revenue: .59X – 1.23X

1245 LTM EBITDA: 4.5X to 7.0X

1246 • Implied multiples if Conglomerate FV equals carrying value =

1247 Carrying value/LTM Revenue: $\$1,290/\$1,750 = 0.74X$

1248 Carrying value/LTM EBITDA: $\$1,290/\$295 = 4.37X$

1249 In this revised example, given the lower carrying values, the minimum premium over MVIC that
1250 would be required for Conglomerate to pass the ASC 350 Step 1 test shows a large cushion of
1251 over 30 percent, indicating that there is a reasonable possibility that each unit could pass the test
1252 before consideration of the MPAP. Additionally, the carrying value-implied LTM multiples are
1253 at or below the bottom end of the range of observed guideline company multiples. Therefore, the
1254 MPAP is unlikely to have any bearing on the outcome of the subject impairment test and the
1255 initial analysis of the reporting unit fair values is run with minimal supporting detail for the
1256 MPAP.

1257 The analysis of the Subject Co. fair value follows the same general process in this revised
1258 scenario as that shown in the Scenario One example. The differences in the details of the various
1259 steps in the analysis are summarized as follows:

1260 • Income Approach: In establishing the forecast for use in the cash flow analysis, the same
1261 areas of potential acquisition synergy are considered as those described in the Scenario One
1262 example. However, the objective in doing so is only to establish that the types of synergies
1263 included represent appropriate market participants' assumptions. No specific quantification
1264 of the market participants' synergies is needed for purposes of quantifying the MPAP.
1265 However, it may be necessary to understand and quantify the market participants' synergies
1266 as an element of PFI when performing the valuation.

1267 • Market Approach: The guideline public company analysis is performed in the same manner
1268 as shown in the Scenario One example through the point of estimation of the Foundation
1269 Value.

1270 • MPAP Estimation: The estimation of the MPAP for application to the Foundation Value is
1271 then based only on a review of the guideline transaction premium information. The cash
1272 flow-based MPAP estimation process shown in the Scenario One example is eliminated as
1273 unnecessary, pending review of the fair value results for each reporting unit relative to its
1274 respective carrying value.

1275 The results of the test under this revised scenario are shown in the table below. A fair value of
 1276 \$730.0 million is concluded for the Subject Co. reporting unit, and Subject Co. passes the Step 1
 1277 ASC 350 test, as follows:

| | |
|--|---------------------|
| Control Value Indication: Income Approach | \$740.0 |
| Minority, Noncontrol Indication: Market Approach | \$630.0 |
| Concluded MPAP, TIC Basis | 15.0% |
| Control Value Indication: Market Approach | \$724.5 |
| Concluded Fair Value of Subject Co. | \$730.0 |
| Carrying Value: Subject Co. | \$440.0 |
| ASC 350 Pass/(Fail) | Pass \$290.0 |
| Pass Percentage | 65.9% |
| Note: All in US\$ Millions | |

1278 The cushion of \$290 million represents a wide (66 percent) margin over the Subject Co. carrying
 1279 value. Therefore, results shown for Subject Co. clearly indicate that further, more detailed
 1280 support for the MPAP is unnecessary for purposes of this analysis as the reporting unit passes the
 1281 test by a margin well in excess of the 15 percent premium included.

1282 Regarding this more simplified analysis, the Working Group notes the following observations:

- 1283 • The control value concluded for the market approach in this example (\$724.5) is higher than
 1284 that concluded in the more detailed Scenario One example (\$705.6).
- 1285 • The 15 percent MPAP, while within the range of market evidence from the exhibit on
 1286 page 48, is lower than the average or median, reflecting consideration of the challenges
 1287 regarding the transaction premium data discussed elsewhere in this Advisory.
- 1288 • If the indicated average or median transaction premium from the market evidence on page 48
 1289 were simply used, the spread between the conclusion from the “detailed analysis” and the
 1290 “simplified analysis” would be even greater. This suggests that the “simplified analysis”
 1291 could be overstating fair value.
- 1292 • This result provides further evidence of the need for precaution in relying exclusively on the
 1293 historical transaction premium data. Use of this data should be supported conceptually by
 1294 characteristics of the subject entity that would influence the extent of a reasonable MPAP
 1295 such as the qualitative factors discussed in the earlier section—*Business Characteristics*
 1296 *Influencing Market Participant Acquisition Premium*—to narrow the range of observed
 1297 premiums from the transaction data that may be applicable for the subject entity.

1298 **Reconciliation of Market Capitalization (revised carrying value example)**

1299 The MVIC of Conglomerate as of the testing date is unchanged at \$1,867 million. The fair value
 1300 conclusions for each of the reporting units have all been derived in the same manner as that
 1301 described here in the Scenario Two revised carrying value example for Subject Co. and all three
 1302 units are concluded to have passed the Step 1 test. The resulting total concluded value of the
 1303 Conglomerate TIC is \$2,150,000. Therefore, the premiums implied by the value conclusions are
 1304 as shown in the following table.

| | |
|--|------------------|
| Concluded Fair Value of Conglomerate TIC (sum of reporting units) | \$2,150.0 |
| Test Date Price of Conglomerate Shares | \$10.0 |
| Outstanding Conglomerate Shares (millions) | 105.0 |
| Conglomerate Equity Market Capitalization | \$1,050.0 |
| Fair Value of Conglomerate Debt | \$817.0 |
| MVIC of Conglomerate | \$1,867.0 |
| MPAP Implied by Fair Value Conclusion | \$283.0 |
| MPAP Implied by Fair Value Conclusion (Equity Foundation basis) | 27.0% |
| MPAP Implied by Fair Value Conclusion (TIC Foundation basis) | 15.2% |
| Note: All in US\$ Millions Except Price Per Share | |
| The Working Group notes that, as a practical expedient, adjustments are not made to account for normalized operating levels of cash. | |

1305 The reconciling 15.2 percent TIC Foundation MPAP (27.0 percent on an Equity basis) is shown
 1306 to be reasonable. This determination is based on the general level of premiums observed in recent
 1307 transaction premiums. While this type of support would not be sufficient in a case where a
 1308 premium is necessary to the support the test results, the fact that no premium is required to
 1309 establish a passing result for any of the Conglomerate reporting units allows for this more
 1310 efficient, less detailed approach in this case.

SUMMARY

1311 Because this VFR Advisory is intended to address best practices for the valuation of controlling
1312 interests in business enterprises under the standard of fair value for financial reporting, certain
1313 commentary is provided regarding this context.

1314 In fulfilling its mandate to provide best practices in the context of measuring fair value for
1315 financial reporting purposes, the Working Group introduced the term Market Participant
1316 Acquisition Premium, or MPAP. MPAP is defined here as the difference between: (1) the *pro*
1317 *rata* fair value of the subject controlling interest; and (2) *its foundation*. The Working Group
1318 believes that valuation specialists most commonly associate the *foundation* with the *pro rata* fair
1319 value of marketable, noncontrolling interests in the enterprise. While this describes an MPAP
1320 Equity Foundation concept, a TIC Foundation may be more appropriate. The Working Group
1321 believes that best practices include expressing as well as applying the MPAP in the context of a
1322 TIC Foundation.

1323 This Advisory asserts that MPAPs should be supported by reference to either enhanced cash
1324 flows or a lower required rate of return from the market participants' perspective. The Working
1325 Group anticipates such benefits will not in all instances exist or be reliably identifiable, thus, in
1326 such cases resulting in either no premium or a small premium. Notwithstanding the emphasis on
1327 cash flow and risk differentials in supporting MPAPs in fair value measurement, the Working
1328 Group acknowledges the merit of analyzing historical data regarding observed premiums from
1329 closed transactions when reliable data is available.

1330 However, the Working Group cautions that exclusive reliance on observed premium data from
1331 completed transactions provides, in most cases, insufficient support for a concluded MPAP.
1332 Exclusive reliance on observed transaction premiums without careful analysis of the subject
1333 entity's relative financial performance, valuation multiples, and other metrics can result in an
1334 unreliable fair value measurement.

1335 Various business characteristics are discussed that influence an MPAP, including characteristics
1336 of the market and industry, as well as both the subject entity and market participants. The
1337 exercise of prerogatives of control by acquirers may lead to economic benefits in many areas and
1338 the valuation specialist should review the typical business characteristics likely to influence the
1339 magnitude of the benefits available to market participants. The Working Group believes that use
1340 of the framework discussed will provide an important context for review of the valuation results
1341 and will increase the relevance and reliability of the associated fair value measurement.

1342 A credible fair value measurement should include an assessment of the overall reasonableness of
1343 the measurement, including the MPAP applied or implied by the analysis. The level of rigor of
1344 analysis would depend on the importance of the MPAP to the fair value measurement.
1345 Factors—along with examples—are offered to evaluate the reasonableness of the fair value
1346 measurement of a controlling interest in a business enterprise.

EXHIBITS A AND B

EXHIBIT B

Forecast Under Current Stewardship
(in US\$ millions)

| | | Compound Annual Growth Rate (Revenue, Through Year 5): 6.1% | | | | | | | | | | | |
|-------------------------------------|-----------------|---|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|-----------------|------------|
| | <u>Trailing</u> | <u>Year 1</u> | <u>Year 2</u> | <u>Year 3</u> | <u>Year 4</u> | <u>Year 5</u> | <u>Year 6</u> | <u>Year 7</u> | <u>Year 8</u> | <u>Year 9</u> | <u>Year 10</u> | <u>Residual</u> | |
| Revenue | \$600 | \$645 | \$687 | \$728 | \$768 | \$807 | \$847 | \$881 | \$912 | \$939 | \$967 | \$996 | |
| <i>Revenue Growth</i> | | 7.5% | 6.5% | 6.00% | 5.50% | 5.00% | 5.0% | 4.0% | 3.5% | 3.0% | 3.0% | 3.0% | |
| Gross Profit | 360 | 60.0% | 387 | 412 | 437 | 461 | 484 | 508 | 528 | 547 | 563 | 580 | 598 |
| Operating Expenses: | | | | | | | | | | | | | |
| Research & Development | 30 | 5.0% | 32 | 34 | 36 | 38 | 40 | 42 | 44 | 46 | 47 | 48 | 50 |
| Distribution Expenses | 87 | 13.5% | 87 | 93 | 98 | 104 | 109 | 114 | 119 | 123 | 127 | 131 | 134 |
| Selling Expenses | 105 | 17.5% | 113 | 120 | 127 | 134 | 141 | 148 | 154 | 160 | 164 | 169 | 174 |
| Other General & Administrative | 45 | 7.0% | 45 | 48 | 51 | 54 | 56 | 59 | 62 | 64 | 66 | 68 | 70 |
| Total Operating Expenses | 267 | 43.0% | 277 | 295 | 312 | 330 | 346 | 363 | 379 | 393 | 404 | 416 | 428 |
| EBITDA | 93 | 17.0% | 110 | 117 | 125 | 131 | 138 | 145 | 149 | 154 | 159 | 164 | 170 |
| Depreciation & Amortization | 25 | | 25 | 26 | 29 | 32 | 35 | 38 | 40 | 43 | 45 | 47 | 49 |
| EBIT | 68 | | 85 | 91 | 96 | 99 | 103 | 107 | 109 | 111 | 114 | 117 | 121 |
| Taxes | 27 | 40.0% | 34 | 36 | 38 | 40 | 41 | 43 | 44 | 44 | 46 | 47 | 48 |
| Debt Free Net Income | 41 | | 51 | 55 | 58 | 59 | 62 | 64 | 65 | 67 | 68 | 70 | 73 |
| Incremental Working Capital | | 30.0% | 14 | 13 | 12 | 12 | 12 | 12 | 10 | 9 | 8 | 8 | 9 |
| Depreciation & Amortization | | | 25 | 26 | 29 | 32 | 35 | 38 | 40 | 43 | 45 | 47 | 49 |
| Capital Expenditures | | | 25 | 26 | 29 | 32 | 35 | 38 | 40 | 43 | 45 | 47 | 49 |
| Debt Free Cash Flow | | | 37 | 42 | 46 | 47 | 50 | 52 | 55 | 58 | 60 | 62 | 64 |
| Residual Value | | | | | | | | | | | | | 900 |
| Discounting Periods | | | 0.5 | 1.5 | 2.5 | 3.5 | 4.5 | 5.5 | 6.5 | 7.5 | 8.5 | 9.5 | 9.5 |
| PV Factor | 10.5% | | 0.9513 | 0.8609 | 0.7791 | 0.7051 | 0.6381 | 0.5774 | 0.5226 | 0.4729 | 0.4280 | 0.3873 | 0.3873 |
| PV DFCF | | | 35 | 36 | 36 | 33 | 32 | 30 | 29 | 27 | 26 | 24 | 349 |
| Total Invested Capital Value | \$660 | | | | | | | | | | | | |
| Interest-Bearing Debt | 290 | | | | | | | | | | | | |
| Equity Value | <u>\$370</u> | | | | | | | | | | | | |
| | | Residual Value Calculation | | | | | | | | | | | |
| | | Residual Debt Free Cash Flow | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | Cost of Capital | | | | | | | | | | | |
| | | 10.5% | | | | | | | | | | | |
| | | Estimated Residual Growth Rate | | | | | | | | | | | |
| | | 3.0% | | | | | | | | | | | |
| | | Residual Capitalization Rate | | | | | | | | | | | |
| | | 7.5% | | | | | | | | | | | |
| | | <u>Residual Value</u> | | | | | | | | | | | |
| | | <u>\$900</u> | | | | | | | | | | | |
| Relative Value Measures | | | | | | | | | | | | | |
| TIC /Trailing Revenue | 1.1 | | | | | | | | | | | | |
| TIC /Trailing EBITDA | 7.1 | | | | | | | | | | | | |

This analysis has been simplified for the purposes of this VFR Advisory. It is assumed that commonly accepted valuation methods and procedures would be followed in the determination of fair value.

VFR Valuation Advisory #3: *The Measurement and Application of Market Participant Acquisition Premiums*
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