

## **EQUITY RESEARCH**

September 5, 2023

**Earnings Update** 

## CONSTELLATION SOFTWARE INC.

Adding Scale In Mortgage Software

#### **Our Conclusion**

With Intercontinental Exchange's (ICE) acquisition of Black Knight (BKI), we expect Constellation's acquisitions of Empower and Optimal Blue to close shortly. The \$700MM Optimal Blue deal is one of Constellation's largest acquisitions, adding significant scale to Perseus' mortgage operations. We believe that Constellation benefited from a motivated seller, with FTC approval of the ICE/BKI merger held up by concerns related to concentration issues within the loan origination system (LOS) and product, pricing & eligibility (PPE) groups. With the Constellation acquisitions, these concentration issues are removed, paving the way for FTC approval of the \$11.7B ICE/BKI merger. Constellation acquired Optimal Blue at a valuation of ~6.3x EBITDA, a significant discount from the ~24x EBITDA multiple at which BKI acquired the asset in 2019. We retain our Outperformer rating on Constellation and our price target increases to C\$3,100 (from \$3,000) on our revised forecast, which incorporates the Empower and Optimal Blue acquisitions.

### **Key Points**

Adds Scale In Mortgages: Optimal Blue's SaaS platform facilitates commerce between mortgage originators and investors. The platform serves lenders that originate ~40% of the U.S.'s national residential mortgages. The Optimal Blue platform is vendor agnostic and used in more than a dozen different LOS platforms. Empower is the second-largest LOS platform in the mortgage space, with an estimated market share of ~10%-15%. The Perseus operating group has been building out its mortgage solutions offering since its 2019 acquisition of Mortgage Builder. Similar to prior Constellation acquisitions, we do not expect significant integration with other mortgage businesses, although do expect that Constellation management has used recent mortgage deals to gain knowledge in the space.

**Expect Minimal Restructuring:** Unlike the recent Altera acquisition, which has dragged on revenue growth and margins, Optimal Blue has historically had solid organic growth and EBITDA margins. During the strong mortgage market in 2019-2021, Optimal Blue was growing organically in the 30% range. In today's more muted mortgage market, we estimate the business is growing in the 10% range and we expect that it will continue to grow above Constellation's typical mid-single-digit organic growth range. The Optimal Blue business also has a very solid margin profile, with BKI suggesting margins in the 50% range. We see little restructuring necessary for the asset post acquisition.

Changes To Our Model: We are updating our model to reflect the closure of the Optimal Blue acquisition. We expect \$115MM in EBITDA from Optimal Blue in 2024E, increasing our 2024 EBITDA estimate by 5%. We had assumed \$1.44B in M&A spend in 2023E and post Optimal Blue now assume \$2.1B in spending and 2023E free cash flow of \$1.3B. Post Optimal Blue we calculate 2023E leverage to increase by 0.3x to 1.2x.

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## Outperformer

CSU-TSX, Sector: Information Technology

Current Price (9/5/23):

C\$2,822.23

Price Target (12-18 mos.):

Previous:

C\$3,000.00

567.6E

#### **CIBC Estimates and Valuation**

(Dec. 31)	2021	2022	2023	2024
EPS diluted	7.97A	26.00A	13.71E	56.74E
Prior			13.45E	53.20E
EBITDA(mln)	1,511.0A	1,699.0A	2,075.6E	2,492.6E
Prior			2,062.2E	2,367.0E

EPS diluted	Q1	Q2	Q3	Q4
2023	4.44A	4.88A	7.44E	9.05E
Prior			7.43E	8.80E
2022	5.24A	6.37A	6.75A	7.69A
EBITDA(mln)	Q1	Q2	Q3	Q4
2023	455.8A	517.0A	522.8E	581.0E

2022	373.0A	411.0A	419.0A	496.0A
Valuation	2021	2022	2023	2024
EV/EBITDA	28.8x	25.6x	20.9x	17.4x

Prior

### **Stock Performance and Key Indicators**

Avg. Dly. Vol.:	25K	Shares O/S:	21.2M
Market Cap.:	C\$59,831M	Float:	19.8M
52-wk Range:	,797.90 - C\$2,847.35	Div. / Yield:	C\$7.29/0.26%

### TSX Composite Index vs. CSU-TSX



(Source: FactSet)

All figures in US dollars unless otherwise stated (C\$1.360:US\$1.00).

Please see "Price Target Calculation and Key Risks to Price Target" information on page 7. For required regulatory disclosures please refer to "Important Disclosures" beginning on page 8.

#### Constellation Software Inc. (CSU-TSX) — Outperformer

Price (9/5/23) C\$2,822.23 12-18 mo. Price Target C\$3,100.00

Sector: Information Technology

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P/E - Cdn Consolidators	Peer Comparison	2021	2022	2023E	2024E
P/E - Constellation         -         -         39.2x         28.3x           EV/EBITDA - Cdn Consolidators         -         20.5x         17.7x         14.9x           EV/EBITDA - Constellation         -         27.1x         22.2x         18.5x           EV/Sales - Constellation         -         27.1x         17.7x         5.3x           Key Financial Metrics         2021         2022         2023E         2024E           Free Cash Flow         1,271         1,256         1,328         1,794           Sales Growth         28.6%         29.7%         23.1%         16.7%           Per Share Data         2021         2022         2023E         2024E           FCFPS         59.98         59.27         62.65         84.65           Diluted EPS         7.97         26.00         13.71         56.74           Adj. EPS Dil.         31.14         57.05         53.68         74.33           Wgt Avg # of Shares         21.2         21.2         21.2         21.2         21.2         21.2         21.2         21.2         21.2         21.2         21.2         21.2         21.2         21.2         21.2         21.2         21.2         21.2         21.2	•		15.6x		
EV/EBITDA - Constellation         -         27.1x         22.2x         18.5x           EV/Sales - Constellation         -         27.1x         17.7x         5.3x           Key Financial Metrics         2021         2022         2023E         2024E           Free Cash Flow         1,271         1,256         1,328         1,794           Sales Growth         28.6%         29.7%         23.1%         16.7%           Per Share Data         2021         2022         2023E         2024E           FCFPS         59.98         59.27         62.65         84.65           Diluted EPS         7.97         26.00         13.71         56.74           Adj. EPS Dil.         31.14         57.05         53.68         74.33           Wgt Avg # of Shares         21.2		_	-		
EV/EBITDA - Constellation         -         27.1x         22.2x         18.5x           EV/Sales - Constellation         -         27.1x         17.7x         5.3x           Key Financial Metrics         2021         2022         2023E         2024E           Free Cash Flow         1,271         1,256         1,328         1,794           Sales Growth         28.6%         29.7%         23.1%         16.7%           Per Share Data         2021         2022         2023E         2024E           FCFPS         59.98         59.27         62.65         84.65           Diluted EPS         7.97         26.00         13.71         56.74           Adj. EPS Dil.         31.14         57.05         53.68         74.33           Wgt Avg # of Shares         21.2		ors -	20.5x		
Key Financial Metrics         2021         2022         2028E         2024E           Free Cash Flow         1,271         1,256         1,328         1,794           Sales Growth         28.6%         29.7%         23.1%         16.7%           Per Share Data         2021         2022         2023E         2024E           FCFPS         59.98         59.27         62.65         84.65           Diluted EPS         7.97         26.00         13.71         56.74           Adj. EPS Dil.         31.14         57.05         53.68         74.33           Wgt Avg # of Shares         21.2         20.24 <td></td> <td>-</td> <td>27.1x</td> <td>22.2x</td> <td>18.5x</td>		-	27.1x	22.2x	18.5x
Free Cash Flow         1,271         1,256         1,328         1,794           Sales Growth         28.6%         29.7%         23.1%         16.7%           Per Share Data         2021         2022         2023E         2024E           FCFPS         59.98         59.27         62.65         84.65           Diluted EPS         7.97         26.00         13.71         56.74           Adj. EPS Dil.         31.14         57.05         53.68         74.33           Wgt Avg # of Shares         21.2         21	EV/Sales - Constellation	-	27.1x	17.7x	5.3x
Sales Growth         28.6%         29.7%         23.1%         16.7%           Per Share Data         2021         2022         2023E         2024E           FCFPS         59.98         59.27         62.65         84.65           Diluted EPS         7.97         26.00         13.71         56.74           Adj. EPS Dil.         31.14         57.05         53.68         74.33           Wgt Avg # of Shares         21.2         22.24         22.24	Key Financial Metrics	2021	2022	2023E	2024E
Per Share Data         2021         2022         2023E         2024E           FCFPS         59.98         59.27         62.65         84.65           Diluted EPS         7.97         26.00         13.71         56.74           Adj. EPS Dil.         31.14         57.05         53.68         74.33           Wgt Avg # of Shares         21.2         22.2         22.2         22.2         22.2         22.2         22.2         22.2         22.2	Free Cash Flow	1,271	1,256	1,328	1,794
FCFPS         59.98         59.27         62.65         84.65           Diluted EPS         7.97         26.00         13.71         56.74           Adj. EPS Dil.         31.14         57.05         53.68         74.33           Wgt Avg # of Shares         21.2         22.2         22.2         22.2         22.2         22.2         22.2         22.2         22.3	Sales Growth	28.6%	29.7%	23.1%	16.7%
Diluted EPS         7.97         26.00         13.71         56.74           Adj. EPS Dil.         31.14         57.05         53.68         74.33           Wgt Avg # of Shares         21.2         22.2         22.2         22.2         22.2         22.2         22.3         1.2         1.2         1.2	Per Share Data	2021	2022	2023E	2024E
Adj. EPS Dil.       31.14       57.05       53.68       74.33         Wgt Avg # of Shares       21.2       21.2       21.2       21.2         FD Number of Shares       21.2       21.2       21.2       21.2         Income Statement       2021       2022       2023E       2024E         Revenue       5,106       6,622       8,152       9,510         EBITDA       1,511       1,699       2,076       2,493         EBIT Margin       29.59%       25.66%       25.46%       26.21%         EBIT Margin       437       811       672       1,848         Pretax profit       373       725       534       1,718         Tax Expense       206       175       243       515         Adjusted Net Income       660       1,209       1,137       1,575         Adjusted Net Margin       12.9%       18.3%       14.0%       16.6%         Cash Flow Statement       2021       2022       2023E       2024E         Net CFO       1,300       1,297       1,365       1,818         Capex       (29)       (41)       (37)       (24)         Acquisitions       (1,216)       (1,566)	FCFPS	59.98	59.27	62.65	84.65
Wgt Avg # of Shares         21.2         22.2         22.3         23.2 </td <td>Diluted EPS</td> <td>7.97</td> <td>26.00</td> <td>13.71</td> <td>56.74</td>	Diluted EPS	7.97	26.00	13.71	56.74
Process	Adj. EPS Dil.	31.14	57.05	53.68	74.33
Name					
Revenue         5,106         6,622         8,152         9,510           EBITDA         1,511         1,699         2,076         2,493           EBITDA Margin         29.59%         25.66%         25.46%         26.21%           EBIT         437         811         672         1,848           Pretax profit         373         725         534         1,718           Tax Expense         206         175         243         515           Adjusted Net Income         660         1,209         1,137         1,575           Adjusted Net Margin         12.9%         18.3%         14.0%         16.6%           Cash Flow Statement         2021         2022         2023E         2024E           Net CFO         1,300         1,297         1,365         1,818           Capex         (29)         (41)         (37)         (24)           Acquisitions         (1,216)         (1,566)         (2,145)         (800)           Free Cash Flow         1,271         1,256         1,328         1,794           Balance Sheet         2021         2022         2023E         2024E           Cash & ST Investment         763         811	FD Number of Shares	21.2	21.2	21.2	21.2
EBITDA         1,511         1,699         2,076         2,493           EBITDA Margin         29.59%         25.66%         25.46%         26.21%           EBIT         437         811         672         1,848           Pretax profit         373         725         534         1,718           Tax Expense         206         175         243         515           Adjusted Net Income         660         1,209         1,137         1,575           Adjusted Net Margin         12.9%         18.3%         14.0%         16.6%           Cash Flow Statement         2021         2022         2023E         2024E           Net CFO         1,300         1,297         1,365         1,818           Capex         (29)         (41)         (37)         (24)           Acquisitions         (1,216)         (1,566)         (2,145)         (800)           Free Cash Flow         1,271         1,256         1,328         1,794           Balance Sheet         2021         2022         2023E         2024E           Cash & ST Investment         763         811         219         1,128           Intangible Assets         3,428         4,679	Income Statement	2021	2022	2023E	2024E
EBITDA Margin         29.59%         25.66%         25.46%         26.21%           EBIT         437         811         672         1,848           Pretax profit         373         725         534         1,718           Tax Expense         206         175         243         515           Adjusted Net Income         660         1,209         1,137         1,575           Adjusted Net Margin         12.9%         18.3%         14.0%         16.6%           Cash Flow Statement         2021         2022         2023E         2024E           Net CFO         1,300         1,297         1,365         1,818           Capex         (29)         (41)         (37)         (24)           Acquisitions         (1,216)         (1,566)         (2,145)         (800)           Free Cash Flow         1,271         1,256         1,328         1,794           Balance Sheet         2021         2022         2023E         2024E           Cash & ST Investment         763         811         219         1,128           Intangible Assets         3,428         4,679         6,084         6,164           Goodwill         0         0		5,106	6,622	8,152	9,510
EBIT         437         811         672         1,848           Pretax profit         373         725         534         1,718           Tax Expense         206         175         243         515           Adjusted Net Income         660         1,209         1,137         1,575           Adjusted Net Margin         12.9%         18.3%         14.0%         16.6%           Cash Flow Statement         2021         2022         2023E         2024E           Net CFO         1,300         1,297         1,365         1,818           Capex         (29)         (41)         (37)         (24)           Acquisitions         (1,216)         (1,566)         (2,145)         (800)           Free Cash Flow         1,271         1,256         1,328         1,794           Balance Sheet         2021         2022         2023E         2024E           Cash & ST Investment         763         811         219         1,128           Intangible Assets         3,428         4,679         6,084         6,164           Goodwill         0         0         260         420           Total Assets         5,766         7,882         9,	EBITDA	1,511	•	2,076	,
Pretax profit         373         725         534         1,718           Tax Expense         206         175         243         515           Adjusted Net Income         660         1,209         1,137         1,575           Adjusted Net Margin         12.9%         18.3%         14.0%         16.6%           Cash Flow Statement         2021         2022         2023E         2024E           Net CFO         1,300         1,297         1,365         1,818           Capex         (29)         (41)         (37)         (24)           Acquisitions         (1,216)         (1,566)         (2,145)         (800)           Free Cash Flow         1,271         1,256         1,328         1,794           Balance Sheet         2021         2022         2023E         2024E           Cash & ST Investment         763         811         219         1,128           Intangible Assets         3,428         4,679         6,084         6,164           Goodwill         0         0         260         420           Total Assets         5,766         7,882         9,604         11,231           ST Int-Bearing Debt         210         821 </td <td></td> <td></td> <td></td> <td></td> <td></td>					
Tax Expense         206         175         243         515           Adjusted Net Income         660         1,209         1,137         1,575           Adjusted Net Margin         12.9%         18.3%         14.0%         16.6%           Cash Flow Statement         2021         2022         2023E         2024E           Net CFO         1,300         1,297         1,365         1,818           Capex         (29)         (41)         (37)         (24)           Acquisitions         (1,216)         (1,566)         (2,145)         (800)           Free Cash Flow         1,271         1,256         1,328         1,794           Balance Sheet         2021         2022         2023E         2024E           Cash & ST Investment         763         811         219         1,128           Intangible Assets         3,428         4,679         6,084         6,164           Goodwill         0         0         260         420           Total Assets         5,766         7,882         9,604         11,231           ST Int-Bearing Debt         210         821         1,017         1,017           LT Int-Bearing Debt         915         <	==				,
Adjusted Net Income         660         1,209         1,137         1,575           Adjusted Net Margin         12.9%         18.3%         14.0%         16.6%           Cash Flow Statement         2021         2022         2023E         2024E           Net CFO         1,300         1,297         1,365         1,818           Capex         (29)         (41)         (37)         (24)           Acquisitions         (1,216)         (1,566)         (2,145)         (800)           Free Cash Flow         1,271         1,256         1,328         1,794           Balance Sheet         2021         2022         2023E         2024E           Cash & ST Investment         763         811         219         1,128           Intangible Assets         3,428         4,679         6,084         6,164           Goodwill         0         0         260         420           Total Assets         5,766         7,882         9,604         11,231           ST Int-Bearing Debt         210         821         1,017         1,017           LT Int-Bearing Debt         915         1,153         1,409         1,409           Total Liabilities         4,245<	•				,
Adjusted Net Margin         12.9%         18.3%         14.0%         16.6%           Cash Flow Statement         2021         2022         2023E         2024E           Net CFO         1,300         1,297         1,365         1,818           Capex         (29)         (41)         (37)         (24)           Acquisitions         (1,216)         (1,566)         (2,145)         (800)           Free Cash Flow         1,271         1,256         1,328         1,794           Balance Sheet         2021         2022         2023E         2024E           Cash & ST Investment         763         811         219         1,128           Intangible Assets         3,428         4,679         6,084         6,164           Goodwill         0         0         260         420           Total Assets         5,766         7,882         9,604         11,231           ST Int-Bearing Debt         210         821         1,017         1,017           LT Int-Bearing Debt         915         1,153         1,409         1,409           Total Liabilities         4,245         5,949         7,428         7,937           Shareholders' Equity         1,5					
Cash Flow Statement         2021         2022         2023E         2024E           Net CFO         1,300         1,297         1,365         1,818           Capex         (29)         (41)         (37)         (24)           Acquisitions         (1,216)         (1,566)         (2,145)         (800)           Free Cash Flow         1,271         1,256         1,328         1,794           Balance Sheet         2021         2022         2023E         2024E           Cash & ST Investment         763         811         219         1,128           Intangible Assets         3,428         4,679         6,084         6,164           Goodwill         0         0         260         420           Total Assets         5,766         7,882         9,604         11,231           ST Int-Bearing Debt         210         821         1,017         1,017           LT Int-Bearing Debt         915         1,153         1,409         1,409           Total Liabilities         4,245         5,949         7,428         7,937           Shareholders' Equity         1,521         1,933         2,176         3,294	•		,	•	•
Net CFO         1,300         1,297         1,365         1,818           Capex         (29)         (41)         (37)         (24)           Acquisitions         (1,216)         (1,566)         (2,145)         (800)           Free Cash Flow         1,271         1,256         1,328         1,794           Balance Sheet         2021         2022         2023E         2024E           Cash & ST Investment         763         811         219         1,128           Intangible Assets         3,428         4,679         6,084         6,164           Goodwill         0         0         260         420           Total Assets         5,766         7,882         9,604         11,231           ST Int-Bearing Debt         210         821         1,017         1,017           LT Int-Bearing Debt         915         1,153         1,409         1,409           Total Liabilities         4,245         5,949         7,428         7,937           Shareholders' Equity         1,521         1,933         2,176         3,294					
Capex         (29)         (41)         (37)         (24)           Acquisitions         (1,216)         (1,566)         (2,145)         (800)           Free Cash Flow         1,271         1,256         1,328         1,794           Balance Sheet         2021         2022         2023E         2024E           Cash & ST Investment         763         811         219         1,128           Intangible Assets         3,428         4,679         6,084         6,164           Goodwill         0         0         260         420           Total Assets         5,766         7,882         9,604         11,231           ST Int-Bearing Debt         210         821         1,017         1,017           LT Int-Bearing Debt         915         1,153         1,409         1,409           Total Liabilities         4,245         5,949         7,428         7,937           Shareholders' Equity         1,521         1,933         2,176         3,294	Cash Flow Statement	2021	2022	2023E	2024E
Acquisitions         (1,216)         (1,566)         (2,145)         (800)           Free Cash Flow         1,271         1,256         1,328         1,794           Balance Sheet         2021         2022         2023E         2024E           Cash & ST Investment         763         811         219         1,128           Intangible Assets         3,428         4,679         6,084         6,164           Goodwill         0         0         260         420           Total Assets         5,766         7,882         9,604         11,231           ST Int-Bearing Debt         210         821         1,017         1,017           LT Int-Bearing Debt         915         1,153         1,409         1,409           Total Liabilities         4,245         5,949         7,428         7,937           Shareholders' Equity         1,521         1,933         2,176         3,294	Net CFO	1,300	1,297	,	1,818
Free Cash Flow         1,271         1,256         1,328         1,794           Balance Sheet         2021         2022         2023E         2024E           Cash & ST Investment         763         811         219         1,128           Intangible Assets         3,428         4,679         6,084         6,164           Goodwill         0         0         260         420           Total Assets         5,766         7,882         9,604         11,231           ST Int-Bearing Debt         210         821         1,017         1,017           LT Int-Bearing Debt         915         1,153         1,409         1,409           Total Liabilities         4,245         5,949         7,428         7,937           Shareholders' Equity         1,521         1,933         2,176         3,294	•	` '	` ,		` ,
Balance Sheet         2021         2022         2023E         2024E           Cash & ST Investment         763         811         219         1,128           Intangible Assets         3,428         4,679         6,084         6,164           Goodwill         0         0         260         420           Total Assets         5,766         7,882         9,604         11,231           ST Int-Bearing Debt         210         821         1,017         1,017           LT Int-Bearing Debt         915         1,153         1,409         1,409           Total Liabilities         4,245         5,949         7,428         7,937           Shareholders' Equity         1,521         1,933         2,176         3,294	•	( ' /	( , ,	( , ,	` ,
Cash & ST Investment         763         811         219         1,128           Intangible Assets         3,428         4,679         6,084         6,164           Goodwill         0         0         260         420           Total Assets         5,766         7,882         9,604         11,231           ST Int-Bearing Debt         210         821         1,017         1,017           LT Int-Bearing Debt         915         1,153         1,409         1,409           Total Liabilities         4,245         5,949         7,428         7,937           Shareholders' Equity         1,521         1,933         2,176         3,294	Free Cash Flow	1,271	1,256	1,328	1,794
Intangible Assets         3,428         4,679         6,084         6,164           Goodwill         0         0         260         420           Total Assets         5,766         7,882         9,604         11,231           ST Int-Bearing Debt         210         821         1,017         1,017           LT Int-Bearing Debt         915         1,153         1,409         1,409           Total Liabilities         4,245         5,949         7,428         7,937           Shareholders' Equity         1,521         1,933         2,176         3,294		2021	2022	2023E	2024E
Goodwill         0         0         260         420           Total Assets         5,766         7,882         9,604         11,231           ST Int-Bearing Debt         210         821         1,017         1,017           LT Int-Bearing Debt         915         1,153         1,409         1,409           Total Liabilities         4,245         5,949         7,428         7,937           Shareholders' Equity         1,521         1,933         2,176         3,294	Cash & ST Investment				,
Total Assets         5,766         7,882         9,604         11,231           ST Int-Bearing Debt         210         821         1,017         1,017           LT Int-Bearing Debt         915         1,153         1,409         1,409           Total Liabilities         4,245         5,949         7,428         7,937           Shareholders' Equity         1,521         1,933         2,176         3,294	Intangible Assets	3,428	4,679	6,084	6,164
ST Int-Bearing Debt         210         821         1,017         1,017           LT Int-Bearing Debt         915         1,153         1,409         1,409           Total Liabilities         4,245         5,949         7,428         7,937           Shareholders' Equity         1,521         1,933         2,176         3,294	<del></del>	-	-		
LT Int-Bearing Debt       915       1,153       1,409       1,409         Total Liabilities       4,245       5,949       7,428       7,937         Shareholders' Equity       1,521       1,933       2,176       3,294		,	•	•	•
Total Liabilities         4,245         5,949         7,428         7,937           Shareholders' Equity         1,521         1,933         2,176         3,294				,	,
Shareholders' Equity 1,521 1,933 2,176 3,294			,		,
		,	•	•	•
	• •	•	•	•	•

Source: FactSet, Company Reports & CIBC World Markets

#### **Company Profile**

Constellation Software is a leading provider and acquirer of vertical market software and services.

### Price Target (Base Case): C\$3,100.00

Our C\$3,100 price target is based on a sum-of-the-parts valuation. We value CSU (ex-TOI) at a 26x forward EBITDA multiple and CSU's 30% ownership of TOI and 61% ownership of LMN at market values.

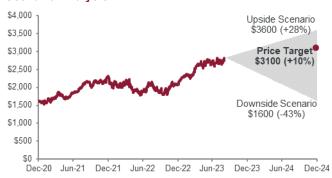
### Upside Scenario: C\$3,600.00

Our C\$3,600 upside scenario is based on a sum-of-the-parts valuation. We value CSU (ex-TOI and LMN) at a 27x forward EBITDA multiple, with 15% revenue growth and 27% EBITDA margins.

#### Downside Scenario: C\$1,600.00

Our C\$1,600 downside scenario is based on a sum-of-the-parts valuation. We value CSU (ex-TOI) at a 19x forward EBITDA multiple, with 5% revenue growth and 20% EBITDA margins.

### Scenario Analysis:



Source: FactSet and CIBC World Markets Inc.



## A Bargain Purchase?

When Constellation announced the acquisition of Optimal Blue in July, we had a number of inbound queries on the structure of the deal, with Constellation acquiring Optimal Blue for \$700MM but for an upfront cash payment of only \$200MM. The remaining \$500MM is a promissory note, with news reports suggesting a 40-year term and 7% interest rate. In addition to the payment terms, the valuation also appeared to be well below prior levels, with BKI acquiring 60% of Optimal Blue in 2019 at an EV/EBITDA multiple of 23.9x and the remaining 40% in 2022 at a 28.8x valuation. The implied EV/EBITDA of Constellation's purchase of the asset is 6.3x, as shown in the table in Exhibit 1.

Exhibit 1: Optimal Blue - Purchase Price History, February 2020 - July 2023E

Date	Acquirer	EV (\$MM)	NTM EV/EBITDA
February 2019	BKI (60%)	1,800	23.9x
February 2022	BKI (40%)	2,890	28.8x
July 2023	CSU	700	6.3x

Source: Company reports and CIBC World Markets Inc.

We believe that a tougher macro environment and weaker mortgage market are partial drivers of the discounted valuation. Since BKI's acquisition of Optimal Blue, mortgage originations in the U.S. have fallen. Mortgage originations were down 15% in 2022 and the MBA Mortgage Finance Association forecasts them to be down 12% in 2023E. It does expect a rebound in 2024E and 2025E, as shown in the bar chart in Exhibit 2.

Exhibit 2: U.S. - Mortgage Originations, 2019 - 2025E

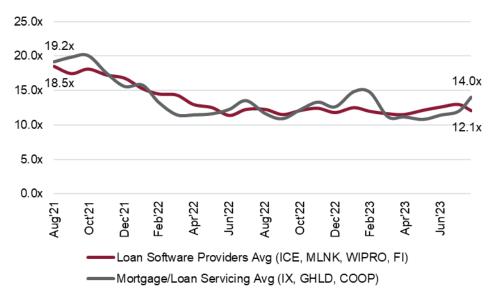


Source: MBA Mortgage Finance Forecast (July-2023) and CIBC World Markets Inc.

Given the slowdown in mortgage originations, peers in the space have seen valuations fall from 2021 heights, with the average EV/EBITDA multiple for loan software providers down 6.4x from August 2021 and the average valuation of mortgage/loan servicing solutions down 5.1x, as shown in the line chart in Exhibit 3. By contrast, Optimal Blue's valuation is down 22.5x, suggesting that a slower mortgage market alone was not the primary driver of the lower Optimal Blue valuation.



Exhibit 3: Loan Software & Servicing Providers – Average EV/EBITDA Valuations, August 2021 - August 2023



Source: Company reports and CIBC World Markets Inc.

Instead, we believe that the primary driver of the discounted valuation was a motivated seller. The \$11.7B acquisition of BKI by ICE was facing FTC scrutiny, with the FTC noting that concentration in the LOS market and PPE services were areas of concern. The FTC concerns led BKI to conditionally sell the Empower LOS to Constellation in March and more recently announce the conditional divestiture of its PPE, Optimal Blue, in July. Post these divestitures, the FTC announced on August 7 that it was dismissing the case against the ICE/BKI merger.

# What Did It Buy?

Through the FTC process, Constellation has acquired both Empower and Optimal Blue. The Optimal Blue acquisition is one of the largest acquisitions Constellation has ever completed and the two acquisitions dramatically expand the Perseus group's mortgage software offering.

Exhibit 4: Empower & Optimal Blue – Description Of Acquired Assets

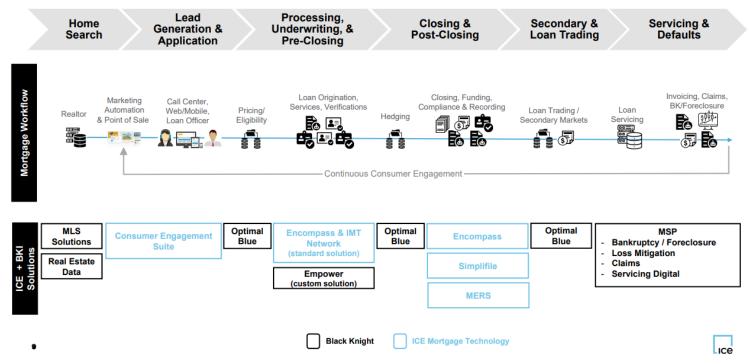
Product	Description	Estimated Market Share	Estimated EBITDA
Optimal Blue	Actionable data services and secondary market solutions that provide a broad set of market functions, including real-time price discovery, execution, workflow automation, risk management and counterparty oversight.	~40%	~\$100MM
Empower	Multi-channel loan origination system serving lenders seeking fully customizable, single tenancy solutions to automate processes, increase data integrity, mitigate risk and accommodate business growth.	~10%-15%	NA

Source: Company reports and CIBC World Markets Inc.

Optimal Blue's marketplace platform facilitates commerce between mortgage originators and investors. The platform serves lenders that originate ~40% of the U.S.'s national residential mortgages each year. The Empower acquisition is smaller, although Empower is the second-largest loan origination system in the mortgage space, with an estimated market share of roughly 10%-15%. With the FTC settlement, Constellation also received a license to resell with Empower certain other Black Knight mortgage-related products and services that would be acquired by ICE.



Exhibit 5: Information Technology - Software Solutions In The Mortgage Workflow



Source: ICF

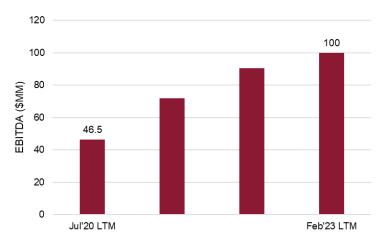
# On-strategy With Constellation's Typical M&A Playbook

Optimal Blue has solid organic growth, despite the current mortgage environment, strong margins and a defensible moat around its business. We view the acquisition as on-strategy with Constellation's typical playbook, offering:

- 1. Recurring Revenue: Optimal Blue has a subscription-based recurring revenue model, and grew from ~1,100 clients at the beginning of 2021 to ~1,400 clients at the end of 2022. That being said, as the macro environment has slowed, so, too, has client growth, with Optimal Blue adding 189 clients in 2021, 129 in 2022 and 49 in H1/23. The business had been growing at ~30% a year in 2021, but a slowdown in mortgage activity in 2022 impacted top-line growth, which we believe has slowed to the ~10% range. We note that the acquisition of Optimal Blue also benefits organic growth at Empower, with BKI management noting that for new Empower clients: "We bundle additional solutions that help lenders improve their ability to serve customers, mitigate risks, and generate new leads. In fact, over the past six years, we have increased the number of solutions bundled in an Empower sale by nearly five times." That being said, Constellation typically does not focus on cross-selling synergies when it makes acquisitions and we assume the business case is driven primarily by recurring revenue growth.
- 2. **Solid Margins:** We expect there will be minimal restructuring necessary for the Optimal Blue assets, with EBITDA margins running in the 50% range pre-acquisition. EBITDA more than doubled between July 2020 and February 2023 amidst a buoyant mortgage market, as shown in the bar chart in Exhibit 6.



Exhibit 6: Optimal Blue - EBITDA, July 2020 - February 2023



Source: Company reports and CIBC World Markets Inc.

3. Strong Moat: Optimal Blue has scale in the mortgage industry, serving lenders that originate roughly 40% of the nation's residential mortgages each year. Optimal Blue is a software-agnostic platform that is used on more than a dozen different LOS solutions, and its integration with the LOS system allows it to automate many product pricing engine features for the lender. Optimal Blue is focused on lenders in the secondary mortgage market, in which it is the leader, with ICE's Encompass Product and Pricing Service PPE second in the market. ICE's product is available only to lenders that use its Encompass LOS.

## **Fits Within The Constellation Portfolio**

Optimal Blue was acquired by the Perseus operating group within Constellation. We have received questions about whether Constellation would look to consolidate its financial services solutions under one umbrella (potentially with Volaris' Vencora business unit), but we do not expect the two operating groups to mingle their business units. Instead, we expect Optimal Blue to remain within Perseus. Perseus has been building out its own financial services vertical over the past several years, acquiring Mortgage Builder in 2019 and two additional mortgage-related software offerings in 2022. Perseus used Mortgage Builder as the cornerstone for its Constellation Mortgage Solutions (CMS) division, which builds, acquires and invests in financial software companies that provide mission-critical solutions for the mortgage industry.

Exhibit 7: Perseus Group - Real Estate Tech Portfolio

Company	Acquired	Description
Mortgage Builder	April 2019	Founded in 1999, Mortgage Builder is part of Constellation Mortgage Solution and provides industry-leading loan origination software to mortgage banks, community banks, credit unions, and other financial institutions.
Reverse Vision	February 2022	Reverse Vision is part of the company's Constellation Mortgage Solution and is the most experienced HECM origination software in the residential mortgage industry. Reverse Vision offers simplified data entry, modern browser-based originator experience, intuitive process flows, and more.
Axacore	October 2022	Axacore was founded to simplify paper-intensive processes and automate multi-tiered document workflows. Over the past three decades, Axacore has provided flexible and comprehensive document and digital fax management systems to mortgage, healthcare, legal, financial, and government organizations.

Source: Company reports and CIBC World Markets Inc.



The fact that Perseus has consolidated its mortgage solutions under the CMS division suggests that the operating group could be looking to leverage best practices out of its mortgage software team, to a greater extent than in a typical Constellation operating group. Further, with the scale provided by Optimal Blue, it could ultimately be considered a stand-alone division that could be spun out in conjunction with another large deal.

# **Changes To Our Model**

We have updated our model to reflect the Optimal Blue acquisition. We expect \$115MM in EBITDA from Optimal Blue in 2024E, increasing our 2024 EBITDA estimate by 5%. We had assumed \$1.44B in M&A spend in 2023E and post Optimal Blue we now assume \$2.1B in M&A spending and 2023E free cash flow of \$1.3B. Post Optimal Blue we calculate 2023E leverage of 1.2x, an increase of 0.3x from our previous estimate.

Exhibit 8: Constellation Software - Changes To Our Model, 2022 - 2024E

	Revenues (\$MM)	EBITDA (\$MM)	CFO (\$MM)
2022	6,622	1,699	1,297
2023E			
CIBC Estimate – New	8,152	2,076	1,365
CIBC Estimate – Prior	8,102	2,062	1,353
Consensus	8,283	2,104	1,601
2024E			
CIBC Estimate – New	9,510	2,493	1,818
CIBC Estimate – Prior	9,293	2,367	1,722
Consensus	9,698	2,572	2,098

Source: FactSet and CIBC World Markets Inc.

# **Price Target Calculation**

Our C\$3,100 price target is based on a sum-of-the-parts methodology. We value CSU (ex-TOI and LMN) at a 26x forward EBITDA multiple and CSU's 30% ownership of TOI and 61% ownership of LMN at market values.

# **Key Risks To Price Target**

The primary risks to our price target include the following: 1) ability to scale; 2) ability to acquire; 3) vertical market exposure; and, 4) lack of detailed disclosure.



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