## J.P.Morgan CAZENOVE

#### **Alcatel-Lucent**

## Summer doldrums result in share price pull-back: Upgrade to Overweight

It takes time to turn around a company that has not been successfully turned around since '06 M&A, hence our caution early in Alcatel's restructuring plan. With the restructuring proceeding at a faster pace than guided originally and the stock having pulled back because some investors have taken profits, not because progress has stalled, we upgrade the stock to Overweight (from Neutral). We maintain our Dec-14 target price at  $\mathfrak{C}3.30$  but show in the note there is potential upside to as much as  $\mathfrak{C}4.4$  or more if the company becomes a pure-play core networking business.

- Costs cuts have been ahead of plan: Alcatel-Lucent (ALU) achieved fixed costs reduction of €335m in 2013, better than their target of €250-300m. The company achieved an additional €143m fixed costs reduction in 1Q14 with the cumulative fixed costs reduction of €478m by end of 1Q14, almost 50% of the target to achieve €1bn fixed costs reduction by 2015. Thus, cost cuts have been ahead of the plan in recent quarters. Cost cuts take time and a turn-around is not instant. The company is working away on its "Shift" plan and more cuts will likely be seen in the results through this year.
- Core networking worth more than company market cap if overhang from rest did not exist: ALU's router business is its crown jewel. According to Delloro, Edge routing where Alcatel-Lucent is #2 globally has grown at a 12.5% CAGR over the last decade. Though growth will be lower than that in future, it will still be an attractive growth end market. Though ALU does not break out margin in this business, we think it is almost certainly targeting 20%+ margin in the Shift plan. ALU is assiduously cutting costs as part of this restructuring plan. If it does reach the 12.5% margin and €7bn revenue target of this plan, we believe this business alone would be worth more than the current €7.4bn market capitalization.
- Access restructuring making progress but we believe disposing wireless would generate the most shareholder value in mid to long term: Ongoing restructuring is reducing losses in access. Fixed access is likely already cash flow positive. The issue of wireless access looms large because it is ALU's largest unit by sales, its weakest unit by market share, and there has been a structural change in the business. Historically ALU wireless had #1 global share in CDMA equipment which could command higher prices. With global standardization of LTE, ALU cannot turn wireless profitable on higher margin in a niche business. Scale matters; hence we believe ALU should dispose the business at fair value without waiting for "best value".

#### Alcatel-Lucent SA (ALUA.PA;ALU FP)

	, -	,				
FYE Dec	2010A	2011A	2012A	2013A	2014E	2015E
Adj.EPS FY (€)	0.07	0.35	(0.31)	(0.17)	0.14	0.28
Revenue FY (€ mn)	15,996	15,327	14,446	14,436	13,439	14,114
Adjusted EBIT FY (€ mn)	288	491	(260)	290	658	1,077
Adj. EBIT Margin FY	1.8%	3.2%	(1.8%)	2.0%	4.9%	7.6%
EV/Revenue FY	0.5	0.5	0.6	0.6	0.6	0.6
EV/Operating Profit FY	28.8	16.9	NM	28.6	12.6	7.7
EV/EBITDA (x) FY	8.3	7.4	20.2	9.5	7.0	5.3
Adj.P/E FY	39.2	7.6	NM	NM	19.4	9.6

Source: Company data, Bloomberg, J.P. Morgan estimates.

#### Overweight

Previous: Neutral

ALUA.PA, ALU FP

Price: €2.64

Price Target: €3.30

## **European Semiconductors Sandeep Deshpande**AC

(44-20) 7134-5276

sandeep.s.deshpande@jpmorgan.com
Bloomberg JPMA DESHPANDE <GO>

J.P. Morgan Securities plc

#### Chetan Udeshi, CFA

(91-22) 6157-3319

chetan.x.udeshi@jpmorgan.com

J.P. Morgan India Private Limited

#### Communications Equipment and Data Networking

Rod Hall, CFA AC

(1-415) 315-6713

rod.b.hall@jpmorgan.com

Bloomberg JPMA HALL <GO>

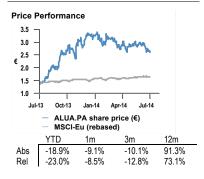
J.P. Morgan Securities LLC

#### Ashwin Kesireddy

(1-415) 315-6756

ashwin.x.kesireddy@jpmorgan.com

J.P. Morgan Securities LLC



Company Data	
Price (€)	2.64
Date Of Price	01 Jul 14
Price Target (€)	3.30
Price Target End Date	31-Dec-14
52-week Range (€)	3.45-1.25
Market Cap (€ bn)	7.43
Shares O/S (mn)	2,814

#### See page 16 for analyst certification and important disclosures, including non-US analyst disclosures.

J.P. Morgan does and seeks to do business with companies covered in its research reports. As a result, investors should be aware that the firm may have a conflict of interest that could affect the objectivity of this report. Investors should consider this report as only a single factor in making their investment decision.

## Cost cuts have been ahead of plan in recent quarters

As part of the "Shift" restructuring plan announced in Jun 2013, Alcatel-Lucent had announced a target to reduce fixed costs (in COGS and opex) by €1bn over 2013-2015 compared to 2012 fixed costs base of €5.9bn. As seen in charts below, the progress on fixed costs reduction has been ahead of their plan. The company achieved fixed costs reduction of €335m in 2013, better than their target of €250-300m fixed costs reduction. The company achieved an additional €143m fixed costs reduction in 1Q14 with the cumulative fixed costs reduction of €478m by end of 1Q14, almost 50% of the target to achieve €1bn fixed costs reduction by 2015. Thus, cost cuts have been ahead of the plan in recent quarters.

Fixed costs savings have also clearly translated into lower opex (as seen in Figure 2b) with 1Q14 opex 12% lower than 1Q13 opex. In the past, we did not always see cost savings highlighted from restructuring translate into any material lower reduction in the opex for the company. Thus, that opex is also being cut materially from the elevated levels (relative to sales) of the past is encouraging.

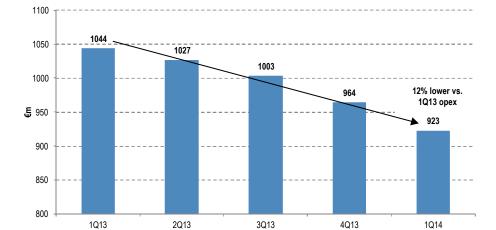
Faster than expected costs cut has allowed the company to report better than expected gross margin and EBIT in recent quarters. However, the company has indicated that the pace of cost savings will slow down in coming quarters as the relatively easy part of cost cuts have been accomplished. Specifically, the company has indicated that it expects to achieve fixed costs savings of  $\[mathebox{\ensuremath{\mathfrak{C}}250\text{-}}300\text{m}$  this year (vs.  $\[mathebox{\ensuremath{\mathfrak{C}}335\text{m}}$  last year), of which  $\[mathebox{\ensuremath{\mathfrak{C}}148\text{m}}$  were achieved in 1Q14. Thus, the company guidance suggests that fixed costs reduction will only be  $\[mathebox{\ensuremath{\mathfrak{C}}100\text{-}}150\text{m}$  over 2Q14-4Q14 combined. That said, this management has been over-delivering so we believe actual results could be better.

The company is now executing on a number of initiatives, including the outsourcing of part of some support functions, notably in finance and HR. The company expects these initiatives to create temporarily some overlap of cost structure before creating meaningful benefits further down the road when those outsourcing initiatives are in full swing, which should be in 2015. As the company has already guided to slowing the pace of costs cut this year, this is likely now factored in consensus numbers. Thus, there could be upside to estimates if the pace of costs cut is faster than what the company has been indicating recently.

900 800 700 600 €m 500 478m 143 400 335m 300 96 239m 200 77 162m 100 1Q13 2Q13 3Q13 4Q13 1Q14 Target by 2015 ■Accumulated fixed costs savings New fixed costs savings

Figure 1: Alcatel-Lucent: Fixed costs savings have been ahead of the plan

Source: Company reports; J.P. Morgan



Opex ex. Enterprise business

Figure 2: Alcatel Lucent: Fixed costs savings showing up in materially lower opex

Source: Company reports

## Core networking the crown jewel

The "Core" networking business unit of Alcatel Lucent is the crown jewel of the company and if it were a standalone business, we think it could be worth more than the total value of the entire company.

14.0%
12.0%
10.0%
8.0%
6.0%
2.0%
0.0%
2012
2013
2014E
2015E

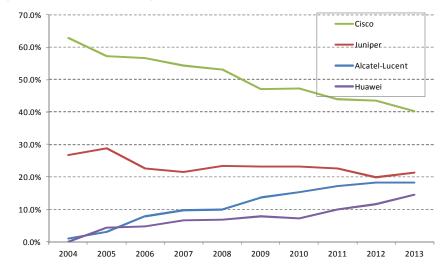
Figure 3: Core networking operating margin and forecast

Source: J.P. Morgan estimates, Company data

As part of the Shift plan, Alcatel-Lucent has guided to >12.5% margin in this business with revenue > €7bn in 2015. At this time, whether the revenue run rate will be reached in '15 is uncertain but with the segment reporting 7.1% margin in the seasonally weak 1Q, this indicates that the business is on track to report 12.5% margin in '15.

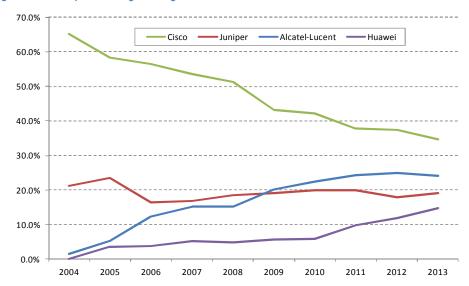
In particular within core networking, Routing is the most significantly profitable segment for Alcatel-Lucent. Within this routing market, Alcatel-Lucent competes in mostly in service provider, i.e. telco operator segment. Within the telco operator segment, Alcatel Lucent is #2 globally in edge routers. It has only recently begun competing in core routing where it is gaining share from no share two years ago. The service provider segment has averaged 72-74% of the total router market.

Figure 4: Service provider routing market share



Source: Delloro

Figure 5: Service provider edge routing market share



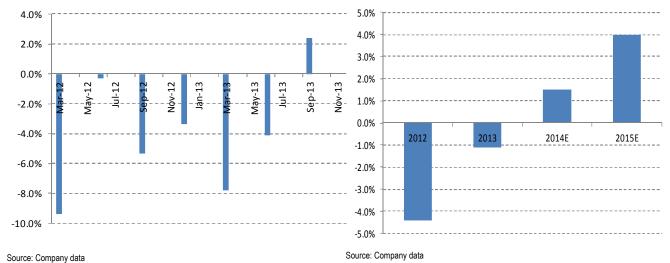
Source: Delloro

# Access can be restructured to non cash consuming though sale of wireless may be the best course

The "Shift" plan has produced reportable improvements in the Access business unit as well. From what we understand, the fixed access units have been substantially restructured and though it may not be a significant profit contributor, the business is now cash neutral to positive. The ongoing restructuring and the "shift" of fixed access to cash neutral to cash producing has improved the earnings profile of the access business as well.

Figure 6: Quarterly operating profit in Access

Figure 7: Yearly operating profit trends and estimates



Wireless access remains the "problem child" in the access business, in our view. Though Alcatel-Lucent's share of the business has not changed dramatically from 2004, what has changed significantly in this business is standardization on LTE unlike the past where ALU was leader in high price and higher margin CDMA networks and thus could potentially be profitable at a lower market share.

40.0% Ericsson Huawei Nokia Alcatel-Lucent 35.0% 30.0% 25.0% 20.0% 15.0% 10.0% 5.0% 0.0% 2007 2004 2005 2006 2008 2009 2010 2011 2012 2013

Figure 8: Wireless RAN global market share

Source: Delloro

In an all-standard LTE world, Alcatel Lucent has strong share in the US and China but is not a presence in most other markets. The market share data shows that the company through aggressive restructuring and careful cost management could keep the business cash neutral to slightly profitable. At the same time, we believe the business is dilutive to overall company margin and distracting to management when they should be focusing on profitable businesses which the company is going to focus on in the long term. We believe the pension buy-outs offered in the US are part of the mid term plan to dispose wireless potentially. Having seen tech companies in the past dither on disposing non core businesses at not the best possible price, our opinion is that if the price is fair, it should be good because in the long term the business will consume too much of management time and company cash anyway. If the company were to take this pragmatic view and dispose wireless, it could be a significant upside to share price. According to Delloro, Alcatel Lucent had approx. \$1.2bn exposure to CDMA in 2013 and thus exposure is €900m. The company also has potentially €800m-€1bn yearly exposure to Chinese revenue which is less valuable in terms of multiple because business in China to non Chinese equipment vendors has been allocated in recent contracts on non technical grounds. Thus almost 50% of the business is of low value in the mobile access business. Thus the company should be satisfied with a 0.5-0.6x sales multiple, in our view, if such an offer were to be made. We assume that if the business were disposed, the company would generate €2bn cash payment though in a bullish case a higher value could be possible.

#### Valuation

We current value and base our target price on Alcatel-Lucent based on the SoTP valuation shown in the table below:

Table 1: Alcatel Lucent: Our current SoTP valuation

	2015E sales	2015E margin	Multiple	Value	% of total
Core Networking	7,000.0	12.5%	1.25	8,750.0	95.3%
Licensing	150.0	100%	10	1,500.0	16.3%
Disposals				1,000.0	10.9%
Pending cash restructuring charges					
(2014-2015)				-1,190.0	-13.0%
Net cash at end 1Q14				-160.0	1.7%
Minority interests				718.0	7.8%
Value of Equity				9,182.0	100.0%
Value per share				3.26	

Source: J.P. Morgan estimates, Company data

However evidence on margin in routing, growth in routing, and peer multiples in profitable optical businesses show that a simple valuation as above where core networking is valued at 1.25x sales because a 12.5% margin does not value Alcatel-Lucent as peers are valued. Thus we now value the individual businesses within Core networking separately, using 2.3x sales in routers given its 20%+ margin and higher growth profile, transport at 1x sales at a discount to Ciena's multiple ,and 0.7x on IP platforms due to the potential margin in that business. We also value wireless as a disposal at €2bn rather than valuing the entire business. Why we value it at €2bn is explained in our section on Access. Upside to the €2bn figure is possible in a bullish case which would provide upside to the new potential value derived below.

From the sum of parts valuation below, we see that Alcatel could be valued at  $\in$ 4.4 if the company sold wireless at a fair value and perhaps closer to  $\in$ 5 if a bullish case value were obtained in the sale of wireless.

Table 2: ALU: SoTP using peers multiples in core networking and valuing wireless at €2bn disposal value

€m	2015	2015 estimated	2015 potential	Multiple	Value of
	sales	margin	op. profit	•	business
IP Routing	2,816	23%	648	2.30	6,476
IP Transport	2,464	4%	99	1.00	2,464
IP platforms	1,768	7.5%	133	0.70	1,238
Core networking	7,048	12.5%	879	1.44	10,178
Fixed access	2,047	2.50%	51	0.25	512
Wireless assuming max.	4,463				2,000
sale value					
Managed services	422			0.5	211
Licensing	150	70%	105	7	735
Pending asset disposals					953
Pending restructuring costs					
(2014-2015)					(1,190)
Net cash at end 1Q14					(160)
Minority interests					718
Value of Equity					12,521
Value per share (€)					4.4

#### **Peer valuation**

The table below shows the peer valuation for Alcatel Lucent using routing and optical equipment peers. We do not include wireless access equipment peers in the table below as Alcatel Lucent is running the wireless access business for cash and thus this business is not a core business for the company, in our opinion.

As seen in the table, ALU is trading on a significant discount to peers on an EV/Sales and EV/EBITDA basis. This likely reflects the lower margin of ALU compared to most peers, in our view. However, the company has announced a target to raise core networking (IP routing and optical equipment and IP platforms) sales to >€7bn in 2015 with a 2013-2015 CAGR of >7% and EBIT margin to >12.5% in 2015 from 7.7% in 2013. If the company continues to show progress towards these targets, as has been seen in recent quarters, ALU multiples should re-rate close to peer multiples. Specifically, we believe that ALU's businesses could re-rate towards the multiples of peer businesses, hence our use of peer multiples in valuing the different segments of Alcatel-Lucent's business.

**Table 3: Alcatel-Lucent: Peer valuation** 

	TTM Non GAAP EBIT margin	EV/'14E sales	EV/'15E sales	EV/'14E EBITDA	EV/'15E EBITDA	14E P/E	15E P/E
Juniper	19.5%	2.0	1.9	7.9	6.8	15.2	12.4
Cisco *	28.4%	2.1	2.0	6.3	6.1	12.2	11.5
Ciena *	6.2%	1.3	1.2	12.8	9.9	22.6	15.4
Infinera	3.6%	1.5	1.3	17.1	12.5	53.2	28.0
Alcatel Lucent	3.5%	0.6	0.6	7.0	5.5	77.2	18.2
Median ex. ALU		1.7	1.6	10.4	8.4	18.9	13.9
Average ex. ALU		1.7	1.6	11.1	8.8	25.8	16.8

Source: Bloomberg estimates. Company data

## **Financials**

Table 4: Alcatel-Lucent: Quarterly P&L

€m	1Q12	2Q12	3Q12	4Q12	1Q13	2Q13	3Q13	4Q13	1Q14	2Q14E	3Q14E	4Q14E
Revenue	3,206	3,545	3,599	4,096	3,226	3,612	3,668	3,930	2,963	3,281	3,349	3,847
Growth Y/Y (%)	-12.3%	-7.1%	-2.8%	-1.3%	0.6%	1.9%	1.9%	-4.1%	NM	NM	NM	NM
Gross Profit	971	1,125	1,004	1,247	947	1,151	1,196	1,349	956	1,042	1,072	1,298
Gross Margin (%)	30.3%	31.7%	27.9%	30.4%	29.4%	31.9%	32.6%	34.3%	32.3%	31.8%	32.0%	33.8%
SG&A	-605	-580	-543	-547	-534	-511	-514	-474	-381	-384	-384	-384
R&D	-587	-576	-586	-583	-592	-594	-566	-568	-542	-545	-545	-545
Total Opex	-1,192	-1,156	-1,129	-1,130	-1,126	-1,105	-1,080	-1,042	-923	-929	-929	-929
Opex % of sales	-37.2%	-32.6%	-31.4%	-27.6%	-34.9%	-30.6%	-29.4%	-26.5%	-31.2%	-28.3%	-27.7%	-24.1%
EBIT	-221	-31	-125	117	-179	46	116	307	33	113	143	369
EBIT margin (%)	-6.9%	-0.9%	-3.5%	2.9%	-5.5%	1.3%	3.2%	7.8%	1.1%	3.4%	4.3%	9.6%
Net Income after												
minorities	522	-180	-32	-389	-256	-176	-63	100	13	41	67	289
Diluted EPS (€)	-0.05	-0.07	-0.02	-0.17	-0.11	-0.08	-0.02	0.03	-0.00	0.01	0.02	0.10

Source: J.P. Morgan estimates, Company data.

Table 5: Alcatel-Lucent: Annual P&L

€m	2009	2010	2011	2012	2013	2014E	2015E
Revenue, €m	15,157	15,996	15,327	14,446	14,436	13,439	14,114
Growth Y/Y (%)	-10.6%	5.5%	-4.2%	-5.7%	-0.1%	NM	5.0%
Gross Profit	5,112	5,572	5,360	4,347	4,643	4,368	4,693
Gross Margin (%)	33.7%	34.8%	35.0%	30.1%	32.2%	32.5%	33.3%
SG&A	-2,796	-2,781	-2,526	-2,275	-2,033	-1,533	-1,436
R&D	-2,372	-2,503	-2,315	-2,332	-2,320	-2,177	-2,180
Total Opex	-5,168	-5,284	-4,841	-4,607	-4,353	-3,710	-3,616
Opex % of sales	-34.1%	-33.0%	-31.6%	-31.9%	-30.2%	-27.6%	-25.6%
EBIT	-56	288	519	-260	290	658	1,077
EBIT margin (%)	-0.4%	1.8%	3.4%	-1.8%	2.0%	4.9%	7.6%
Net Income after							
minorities	7	152	1,326	-79	-395	410	778
Diluted EPS (€)	-0.05	0.07	0.35	-0.31	-0.17	0.14	0.28

Table 6: Alcatel-Lucent: Quarterly segment breakdown

€m	1Q12	2Q12	3Q12	4Q12	1Q13	2Q13	3Q13	4Q13	1Q14E	2Q14E	3Q14E	4Q14E
Revenue	3,206	3,545	3,599	4,096	3,063	3,440	3,500	3,753	2,963	3,281	3,349	3,847
Core Networking	1,369	1,475	1,482	1,854	1,311	1,571	1,496	1,716	1,352	1,550	1,554	1,935
IP Routing	464	516	542	619	494	624	580	555	549	626	615	707
IP Transport	559	620	554	636	428	530	544	618	454	547	562	663
IP Platforms	346	339	386	599	389	417	372	543	349	377	377	565
Access	1,607	1,824	1,881	1,981	1,697	1,816	1,951	1,983	1,572	1,736	1,800	1,916
Wireless Access	931	1,035	1,062	1,123	1,012	1,062	1,196	1,240	999	1,099	1,154	1,212
Fixed Access	433	509	537	551	463	523	541	542	460	515	515	556
Licensing	30	28	23	31	18	16	28	15	14	18	25	35
Managed Services	213	252	259	276	204	215	186	186	99	104	106	113
Other	226	239	236	259	59	59	60	55	40	0	0	0
% of total revenue												
Core Networking	42.7%	41.6%	41.2%	45.3%	42.8%	45.7%	42.7%	45.7%	45.6%	47.2%	46.4%	50.3%
IP Routing	14.5%	14.6%	15.1%	15.1%	16.1%	18.1%	16.6%	14.8%	18.5%	19.1%	18.4%	18.4%
IP Transport	17.4%	17.5%	15.4%	15.5%	14.0%	15.4%	15.5%	16.5%	15.3%	16.7%	16.8%	17.2%
IP Platforms	10.8%	9.6%	10.7%	14.6%	12.7%	12.1%	10.6%	14.5%	11.8%	11.5%	11.3%	14.7%
Access	50.1%	51.5%	52.3%	48.4%	55.4%	52.8%	55.7%	52.8%	53.1%	52.9%	53.8%	49.8%
Wireless Access	29.0%	29.2%	29.5%	27.4%	33.0%	30.9%	34.2%	33.0%	33.7%	33.5%	34.5%	31.5%
Fixed Access	13.5%	14.4%	14.9%	13.5%	15.1%	15.2%	15.5%	14.4%	15.5%	15.7%	15.4%	14.5%
Licensing	0.9%	0.8%	0.6%	0.8%	0.6%	0.5%	0.8%	0.4%	0.5%	0.5%	0.7%	0.9%
Managed Services	6.6%	7.1%	7.2%	6.7%	6.7%	6.3%	5.3%	5.0%	3.3%	3.2%	3.2%	2.9%
Other	7.0%	6.7%	6.6%	6.3%	1.9%	1.7%	1.7%	1.5%	1.3%	0.0%	0.0%	0.0%
EBIT	(222)	(30)	(126)	115	(179)	45	113	292	33	113	143	369
Core Networking	(47)	(9)	3	195	(15)	138	92	257	96	139	140	300
Access	(151)	(5)	(100)	(67)	(132)	(75)	46	76	(37)	0	48	96
Other	11	0	(10)	7	0	(1)	2	(3)	(1)	0	0	0
EBIT Margin												
Group	-6.9%	-0.8%	-3.5%	2.8%	-5.8%	1.3%	3.2%	7.8%	1.1%	3.4%	4.3%	9.6%
Core Networking	-3.4%	-0.6%	0.2%	10.5%	-1.1%	8.8%	6.1%	15.0%	7.1%	9.0%	9.0%	15.5%
Access	-9.4%	-0.3%	-5.3%	-3.4%	-7.8%	-4.1%	2.4%	3.8%	-2.4%	0.0%	2.7%	5.0%
Other	4.9%	0.0%	-4.2%	2.7%	0.0%	-1.7%	3.3%	-5.5%	-2.5%			

Table 7: Alcatel-Lucent: Annual segment breakdown

€m	2012	2013	2014E	2015E
Revenue	14,446	13,756	13,439	14,114
Core Networking	6,180	6,094	6,391	7,048
IP Routing	2,141	2,253	2,496	2,816
IP Transport	2,369	2,120	2,226	2,464
IP Platforms	1,670	1,721	1,668	1,768
Access	7,293	7,447	7,025	7,083
Wireless Access	4,151	4,510	4,463	4,463
Fixed Access	2,030	2,069	2,047	2,047
Licensing	112	77	92	150
Managed Services	1.000	791	422	422
Other	960	233	40	0
% of total revenue				
Core Networking	42.8%	44.3%	47.6%	49.9%
IP Routing	14.8%	16.4%	18.6%	19.9%
IP Transport	16.4%	15.4%	16.6%	17.5%
IP Platforms	11.6%	12.5%	12.4%	12.5%
Access	50.5%	54.1%	52.3%	50.2%
Wireless Access	28.7%	32.8%	33.2%	31.6%
Fixed Access	14.1%	15.0%	15.2%	14.5%
Licensing	0.8%	0.6%	0.7%	1.1%
Managed Services	6.9%	5.8%	3.1%	3.0%
Other	6.6%	1.7%	0.3%	0.0%
EBIT	(263)	271	658	1,077
Core Networking	142	472	675	881
Access	(323)	(85)	107	283
Other	8	(2)	(1)	0
EBIT Margin				
Group	-1.8%	2.0%	4.9%	7.6%
Core Networking	2.3%	7.7%	10.6%	12.5%
Access	-4.4%	-1.1%	1.5%	4.0%
Other	0.8%	-0.9%	-2.5%	

### Investment Thesis, Valuation and Risks

#### **Alcatel-Lucent** (Overweight; Price Target: €3.30)

#### **Investment Thesis**

With the 'Shift' restructuring program proceeding at a faster pace than guided originally and the stock having pulled back because some investors have taken profits, not because progress has stalled, we upgrade the stock to Overweight (from Neutral).

#### Valuation

Our Dec 14 PT of €3.30 is based on a SoTP (shown below) and assumes the new plan is successfully implemented as planned. However, we caution investors that substantial execution risks exist and there is only a limited upside even assuming that plan is successfully implemented. Thus, we believe there remains a case for taking some profits on the stock. As our model is based on successful implementation of the restructuring plan in 2015 rather than 2014 & 2015E earnings, our price target does not change following the revisions to our estimates in this note.

#### **Alcatel Lucent: SOTP valuation**

	2015E sales	2015E margin	Multiple	Value	% of total
Core Networking	7,000.0	12.5%	1.25	8,750.0	95.3%
Licensing	150.0	100%	10	1,500.0	16.3%
Disposals				1,000.0	10.9%
Pending cash restructuring charges					
(2014-2015)				-1,190.0	-13.0%
Net cash at end 1Q14				-160.0	1.7%
Minority interests				718.0	7.8%
Value of Equity				9,182.0	100.0%
Value per share				3.26	

Source: J.P. Morgan estimates, Company data

#### Risks to Rating and Price Target

We see several risks that could prevent the stock from achieving our target price and rating:

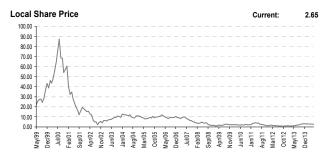
- If the reduction in costs from the ongoing cost reduction program or any new cost reduction program is lower than expected, there could be downside to our estimates and price target.
- 2. Lower than expected carrier spending could result in the downside to estimates.
- A structural decline in the profitability and cash generation profile of the company with the recently announced Shift restructuring plan would be the key reason to turn more negative on the stock.
- 4. Alcatel-Lucent is a complex business that contains both growth and legacy technologies. If the growth in the newer technologies decelerates to more than offset the growth in legacy products, there could be downside to our estimates.

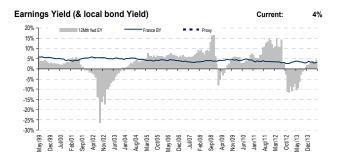
## **Alcatel-Lucent: Summary of Financials**

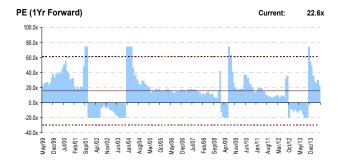
Profit and Loss Statement						Cash flow statement					
€ in millions, year end Dec	FY11	FY12	FY13	FY14E	FY15E	€ in millions, year end Dec	FY11	FY12	FY13	FY14E	FY15E
Revenues	15,327	14,446	14,436	13,439	14,114	Net Income (Reported)	913	(745)	(377)	394	778
% Change Y/Y	(4.2%)	(5.7%)	(0.1%)	(6.9%)	5.0%	Depreciation & amortization	-	-	-	-	-
Gross Profit	5,360	4,347	4,643	4,368	4,693	Other items	(316)	(260)	(373)	(354)	(330)
Gross Margin (%)	35.0%	30.1%	32.2%	32.5%	33.3%	Cash flow from operations	93	(97)	(135)	(10)	759
EBIT (Adj)	491	(260)	290	658	1,077						
% Change Y/Y	70.5%	(153.0%)	(211.5%)	126.8%	63.8%	Capex	(570)	(582)	(528)	(532)	(530)
EBIT Margin (Adj)	3.2%	(1.8%)	2.0%	4.9%	7.6%	Other	(280)	(561)	(704)	457	0
Net Interest	(294)	(279)	(391)	(294)	(280)	Free cash flow	(477)	(679)	(663)	(542)	228
Earnings before tax	560	(190)	(414)	367	800						
% change Y/Y	58.2%	(133.9%)	117.9%	(188.5%)	118.2%	Equity raised	3	0	0	0	0
Tax (charge)	402	(632)	49	49	0	Equity repaid	0	0	0	0	0
Tax as a % of BT	71.8%	(332.6%)	(11.8%)	13.4%	0.0%	Debt Raised	2	18	4,087	0	0
Net Income (Reported)	913	(745)	(377)	394	778	Debt repaid	(935)	(102)	(2,716)	(988)	(96)
% change Y/Y	456.7%	(181.6%)	(49.4%)	(204.4%)	97.7%	Dividends paid	(83)	(37)	(10)	0	0
Adj.EPS	0.35	(0.27)	(0.17)	0.14	0.28	Other	12	123	964	6	0
% Change Y/Y	413.1%	(178.8%)	(36.9%)	(179.4%)	102.8%	Beginning cash	5,040	3,543	3,402	4,097	3,107
						Ending cash	3,534	3,402	4,097	3,107	3,279
						DPS	-	-	-	-	-
Balance sheet						Ratio Analysis					
€ in millions, year end Dec	FY11	FY12	FY13	FY14E	FY15E	€ in millions, year end Dec	FY11	FY12	FY13	FY14E	FY15E
Cash and cash equivalents	3,534	3,401	4,096	3,106	3,279	EBITDA margin (Adj) (%)	7.3%	2.8%	6.0%	8.8%	11.2%
Accounts Receivable	3,407	2,861	2,482	2,436	2,431	Net margin (%)	6.0%	(4.6%)	(2.9%)	2.8%	5.5%
Inventories	1,975	1,940	1,935	1,955	1,962	SG&A/Sales	16.5%	15.7%	14.1%	11.4%	10.2%
Others	1,374	926	972	1,398	1,343						
Current assets	11,229	10,656	11,744	10,695	10,815	R & D as a % of Revenue	15.1%	16.1%	16.1%	16.2%	15.4%
						Sales growth (%)	(4.2%)	(5.7%)	(0.1%)	(6.9%)	5.0%
LT investments	533	340	357	369	369	Attributable net profit growth (%)	456.7%	(181.6%)	(49.4%)	(204.4%)	97.7%
Net fixed assets	1,263	1,164	1,075	1,060	1,048						
Total assets	24,203	21,365	21,896	20,717	20,799						
						Net debt/EBITDA	13.1%	(28.7%)	(22.1%)	24.3%	1.2%
Liabilities						Net debt to equity	3.2%	(4.4%)	(5.3%)	8.3%	0.5%
ST loans	329	857	1,240	556	556	Sales/assets (x)	0.6	0.6	0.7	0.6	0.7
Payables	3,892	3,729	3,518	3,531	3,664	Total Assets/Equity	6.6	7.9	8.9	7.5	7.1
Others	4,157	3,738	3,521	3,432	3,288	ROE	24.7%	(23.0%)	(16.9%)	13.3%	26.5%
Total current liabilities	8,378	8,324	8,279	7,520	7,507	ROCE	1.6%	(14.8%)	4.1%	8.0%	20.9%
Long term debt	4,290	3,954	4,922	4,638	4,542						
Other liabilities	1,228	1,066	1,178	1,218	1,218						
Total liabilities	19,602	18,674	18,233	17,230	16,925						
Shareholders' equity	3,854	1,946	2,933	2,753	3,116						
BVPS	1.46	0.79	1.22	0.99	1.11						

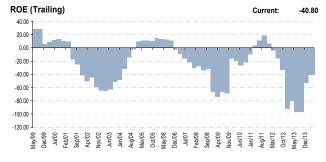
Source: Company reports and J.P. Morgan estimates.

JPM Q-Profile
Alcatel-Lucent SA (FRANCE / Information Technology)
As 0f: 27-Jun; 2014

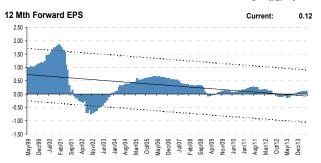


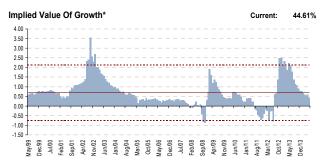




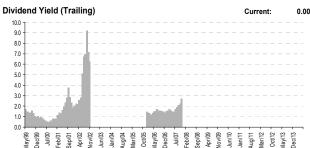


## Global Equity Quantitative Analysis









#### Summary

Alcatel-Lucent SA FRANCE Information Technology	SEDOL	5975006						1	As Of: Local Price: EPS:		27-Jun-14 2.65 0.12
	Latest	Min	Max	Median	Average	2 S.D.+	2 S.D	% to Min	% to Max	% to Med	% to Avg
12mth Forward PE	22.58x	-20.00	75.00	16.19	15.82	61.38	-29.74	-189%	232%	-28%	-30%
P/BV (Trailing)	2.59x	0.38	7.84	2.12	2.23	4.88	-0.42	-85%	203%	-18%	-14%
Dividend Yield (Trailing)	0.00	0.00	9.18	0.00	0.75	3.59	-2.09				
ROE (Trailing)	-40.80	-96.26	28.16	-19.10	-22.97	43.80	-89.74	-136%	169%	53%	44%
Implied Value of Growth	44.6%	-0.88	3.54	0.59	0.69	2.14	-0.76	-297%	695%	33%	55%

Source: Bloomberg, Reuters Global Fundamentals, IBES CONSENSUS, J.P. Morgan Calcs

<sup>\*</sup> Implied Value Of Growth = (1 - EY/Cost of equity) where cost of equity =Bond Yield + 5.0% (ERP)

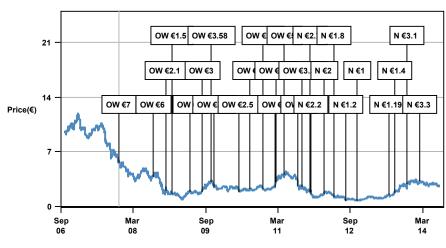
Analyst Certification: The research analyst(s) denoted by an "AC" on the cover of this report certifies (or, where multiple research analysts are primarily responsible for this report, the research analyst denoted by an "AC" on the cover or within the document individually certifies, with respect to each security or issuer that the research analyst covers in this research) that: (1) all of the views expressed in this report accurately reflect his or her personal views about any and all of the subject securities or issuers; and (2) no part of any of the research analyst's compensation was, is, or will be directly or indirectly related to the specific recommendations or views expressed by the research analyst(s) in this report. For all Korea-based research analysts listed on the front cover, they also certify, as per KOFIA requirements, that their analysis was made in good faith and that the views reflect their own opinion, without undue influence or intervention.

#### **Important Disclosures**

- Market Maker: JPMS makes a market in the stock of Alcatel-Lucent.
- Market Maker/ Liquidity Provider: J.P. Morgan Securities plc and/or an affiliate is a market maker and/or liquidity provider in Alcatel-Lucent.
- Lead or Co-manager: J.P. Morgan acted as lead or co-manager in a public offering of equity and/or debt securities for Alcatel-Lucent within the past 12 months.
- Client: J.P. Morgan currently has, or had within the past 12 months, the following company(ies) as clients: Alcatel-Lucent.
- Client/Investment Banking: J.P. Morgan currently has, or had within the past 12 months, the following company(ies) as investment banking clients: Alcatel-Lucent.
- Client/Non-Investment Banking, Securities-Related: J.P. Morgan currently has, or had within the past 12 months, the following company(ies) as clients, and the services provided were non-investment-banking, securities-related: Alcatel-Lucent.
- Client/Non-Securities-Related: J.P. Morgan currently has, or had within the past 12 months, the following company(ies) as clients, and the services provided were non-securities-related: Alcatel-Lucent.
- Investment Banking (past 12 months): J.P. Morgan received in the past 12 months compensation from investment banking Alcatel-Lucent.
- Investment Banking (next 3 months): J.P. Morgan expects to receive, or intends to seek, compensation for investment banking services in the next three months from Alcatel-Lucent.
- Non-Investment Banking Compensation: J.P. Morgan has received compensation in the past 12 months for products or services other than investment banking from Alcatel-Lucent.

Company-Specific Disclosures: Important disclosures, including price charts, are available for compendium reports and all J.P. Morgan-covered companies by visiting <a href="https://jpmm.com/research/disclosures">https://jpmm.com/research/disclosures</a>, calling 1-800-477-0406, or e-mailing <a href="research.disclosure.inquiries@ipmorgan.com">research.disclosure.inquiries@ipmorgan.com</a> with your request. J.P. Morgan's Strategy, Technical, and Quantitative Research teams may screen companies not covered by J.P. Morgan. For important disclosures for these companies, please call 1-800-477-0406 or e-mail research.disclosure.inquiries@ipmorgan.com.





Source: Bloomberg and J.P. Morgan; price data adjusted for stock splits and dividends. Initiated coverage Nov 14, 2007.

Date	Rating	Share Price (€)	Price Target (€)
14-Nov-07	OW	5.63	7.00
29-Jul-08	OW	3.83	6.00
31-Oct-08	OW	2.02	2.10
15-Dec-08	OW	1.64	1.50
06-May-09	OW	1.96	2.00
31-Jul-09	OW	1.94	3.00
12-Oct-09	OW	3.18	3.58
02-Nov-09	OW	2.57	3.50
07-May-10	OW	1.98	2.50
02-Aug-10	OW	2.28	3.00
05-Nov-10	OW	2.35	2.50
07-Feb-11	OW	2.52	3.00
11-Feb-11	OW	3.16	4.50
14-Apr-11	OW	4.15	5.00
29-Jul-11	OW	2.76	4.00
31-Aug-11	OW	2.51	3.25
01-Nov-11	N	1.99	2.70
07-Nov-11	N	1.67	2.20
13-Feb-12	N	1.68	2.00
27-Apr-12	N	1.22	1.80
27-Jul-12	N	0.83	1.20
16-Oct-12	N	0.74	1.00
20-Jun-13	N	1.50	1.19
31-Jul-13	N	1.83	1.40
01-Nov-13	N	2.97	3.10
07-Feb-14	N	3.27	3.30

The chart(s) show J.P. Morgan's continuing coverage of the stocks; the current analysts may or may not have covered it over the entire period.

J.P. Morgan ratings or designations: OW = Overweight, N= Neutral, UW = Underweight, NR = Not Rated

#### Explanation of Equity Research Ratings, Designations and Analyst(s) Coverage Universe:

J.P. Morgan uses the following rating system: Overweight [Over the next six to twelve months, we expect this stock will outperform the average total return of the stocks in the analyst's (or the analyst's team's) coverage universe.] Neutral [Over the next six to twelve months, we expect this stock will perform in line with the average total return of the stocks in the analyst's (or the analyst's team's) coverage universe.] Underweight [Over the next six to twelve months, we expect this stock will underperform the average total return of the stocks in the analyst's (or the analyst's team's) coverage universe.] Not Rated (NR): J.P. Morgan has removed the rating and, if applicable, the price target, for this stock because of either a lack of a sufficient fundamental basis or for legal, regulatory or policy reasons. The previous rating and, if applicable, the price target, no longer should be relied upon. An NR designation is not a recommendation or a rating. In our Asia (ex-Australia) and U.K. small- and mid-cap equity research, each stock's expected total return is compared to the expected total return of a benchmark country market index, not to those analysts' coverage universe. If it does not appear in the Important Disclosures section of this report, the certifying analyst's coverage universe can be found on J.P. Morgan's research website, www.jpmorganmarkets.com.

Coverage Universe: Deshpande, Sandeep S: ARM Holdings ADR (ARMH), ASM International (ASMI.AS), ASML (ASML.AS), ASML ADR (ASML), Aixtron (AIXGn.DE), Alcatel-Lucent (ALUA.PA), Arm Holdings Plc (ARM.L), CSR Plc (CSR.L), Ericsson (ERICb.ST), Ericsson ADR (ERIC), Imagination Technologies (IMG.L), Infineon Technologies (IFXGn.F), Nokia (NOK1V.HE), Nokia ADR (NOK), STMicroelectronics (STM.PA), Wolfson Micro (WLF.L)

Hall, Roderick B: A10 Networks (ATEN), ADTRAN (ADTN), Apple Inc. (AAPL), Aruba Networks (ARUN), BlackBerry (BBRY), Brocade (BRCD), Ciena Corp. (CIEN), Cisco Systems (CSCO), CommScope (COMM), Corning (GLW), Cyan (CYNI), F5 Networks (FFIV), Hewlett-Packard (HPQ), Infinera (INFN), Juniper Networks (JNPR), Motorola Solutions (MSI), QUALCOMM (QCOM), Riverbed (RVBD)

#### J.P. Morgan Equity Research Ratings Distribution, as of June 30, 2014

	Overweight	Neutral	Underweight
	(buy)	(hold)	(sell)
J.P. Morgan Global Equity Research Coverage	45%	43%	11%
IB clients*	55%	49%	34%
JPMS Equity Research Coverage	46%	47%	7%
IB clients*	75%	66%	54%

<sup>\*</sup>Percentage of investment banking clients in each rating category.

For purposes only of FINRA/NYSE ratings distribution rules, our Overweight rating falls into a buy rating category; our Neutral rating falls into a hold rating category; and our Underweight rating falls into a sell rating category. Please note that stocks with an NR designation are not included in the table above.

**Equity Valuation and Risks:** For valuation methodology and risks associated with covered companies or price targets for covered companies, please see the most recent company-specific research report at <a href="http://www.jpmorganmarkets.com">http://www.jpmorganmarkets.com</a>, contact the primary analyst or your J.P. Morgan representative, or email <a href="mailto:research.disclosure.inquiries@jpmorgan.com">research.disclosure.inquiries@jpmorgan.com</a>.

**Equity Analysts' Compensation:** The equity research analysts responsible for the preparation of this report receive compensation based upon various factors, including the quality and accuracy of research, client feedback, competitive factors, and overall firm revenues.

**Registration of non-US Analysts:** Unless otherwise noted, the non-US analysts listed on the front of this report are employees of non-US affiliates of JPMS, are not registered/qualified as research analysts under NASD/NYSE rules, may not be associated persons of JPMS, and may not be subject to FINRA Rule 2711 and NYSE Rule 472 restrictions on communications with covered companies, public appearances, and trading securities held by a research analyst account.

#### **Other Disclosures**

J.P. Morgan ("JPM") is the global brand name for J.P. Morgan Securities LLC ("JPMS") and its affiliates worldwide. J.P. Morgan Cazenove is a marketing name for the U.K. investment banking businesses and EMEA cash equities and equity research businesses of JPMorgan Chase & Co. and its subsidiaries.

All research reports made available to clients are simultaneously available on our client website, J.P. Morgan Markets. Not all research content is redistributed, e-mailed or made available to third-party aggregators. For all research reports available on a particular stock, please contact your sales representative.

**Options related research:** If the information contained herein regards options related research, such information is available only to persons who have received the proper option risk disclosure documents. For a copy of the Option Clearing Corporation's Characteristics and Risks of Standardized Options, please contact your J.P. Morgan Representative or visit the OCC's website at <a href="http://www.optionsclearing.com/publications/risks/riskstoc.pdf">http://www.optionsclearing.com/publications/risks/riskstoc.pdf</a>

#### Legal Entities Disclosures

U.S.: JPMS is a member of NYSE, FINRA, SIPC and the NFA. JPMorgan Chase Bank, N.A. is a member of FDIC. U.K.: JPMorgan Chase N.A., London Branch, is authorised by the Prudential Regulation Authority and is subject to regulation by the Financial Conduct Authority and to limited regulation by the Prudential Regulation Authority. Details about the extent of our regulation by the Prudential Regulation Authority are available from J.P. Morgan on request. J.P. Morgan Securities plc (JPMS plc) is a member of the London Stock Exchange and is authorised by the Prudential Regulation Authority and regulated by the Financial Conduct Authority and the Prudential Regulation Authority. Registered in England & Wales No. 2711006. Registered Office 25 Bank Street, London, E14 5JP. South Africa: J.P. Morgan Equities South Africa Proprietary Limited is a member of the Johannesburg Securities Exchange and is regulated by the Financial Services Board. Hong Kong: J.P. Morgan Securities (Asia Pacific) Limited (CE number AAJ321) is regulated by the Hong Kong Monetary Authority and the Securities and Futures Commission in Hong Kong and/or J.P. Morgan Broking (Hong Kong) Limited (CE number AAB027) is regulated by the Securities and Futures Commission in Hong Kong. Korea: J.P. Morgan Securities (Far East) Ltd, Seoul Branch, is regulated by the Korea Financial Supervisory Service. Australia: J.P. Morgan Australia Limited (JPMAL) (ABN 52 002 888 011/AFS Licence No: 238188) is regulated by ASIC and J.P. Morgan Securities Australia Limited (JPMSAL) (ABN 61 003 245 234/AFS Licence No: 238066) is regulated by ASIC and is a Market, Clearing and Settlement Participant of ASX Limited and CHI-X. Taiwan: J.P.Morgan Securities (Taiwan) Limited is a participant of the Taiwan Stock Exchange (company-type) and regulated by the Taiwan Securities and Futures Bureau. India: J.P. Morgan India Private Limited (Corporate Identity Number - U67120MH1992FTC068724), having its registered office at J.P. Morgan Tower, Off. C.S.T. Road, Kalina, Santacruz - East, Mumbai - 400098, is a member of the National Stock Exchange of India Limited (SEBI Registration Number - INB 230675231/INF 230675231/INE 230675231) and Bombay Stock Exchange Limited (SEBI Registration Number - INB 010675237/INF 010675237) and is regulated by Securities and Exchange Board of India. Telephone: 91-22-6157 3000, Facsimile: 91-22-6157 3990 and Website: www.jpmipl.com. For non local research reports, this material is not distributed in India by J.P. Morgan India Private Limited. Thailand: This material is issued and distributed in Thailand by JPMorgan Securities (Thailand) Ltd., which is a member of the Stock Exchange of Thailand and is regulated by the Ministry of Finance and the Securities and Exchange Commission and its registered address is 3rd Floor, 20 North Sathorn Road, Silom, Bangrak, Bangkok 10500. Indonesia: PT J.P. Morgan Securities Indonesia is a member of the Indonesia Stock Exchange and is regulated by the OJK a.k.a. BAPEPAM LK. Philippines: J.P. Morgan Securities Philippines Inc. is a Trading Participant of the Philippine Stock Exchange and a member of the Securities Clearing Corporation of the Philippines and the Securities Investor Protection Fund. It is regulated by the Securities and Exchange Commission. Brazil: Banco J.P. Morgan S.A. is regulated by the Comissao de Valores Mobiliarios (CVM) and by the Central Bank of Brazil. Mexico: J.P. Morgan Casa de Bolsa, S.A. de C.V., J.P. Morgan Grupo Financiero is a member of the Mexican Stock Exchange and authorized to act as a broker dealer by the National Banking and Securities Exchange Commission. Singapore: This material is issued and distributed in Singapore by or through J.P. Morgan Securities Singapore Private Limited (JPMSS) [MCI (P) 199/03/2014 and Co. Reg. No.: 199405335R] which is a member of the Singapore Exchange Securities Trading Limited and is regulated by the Monetary Authority of Singapore (MAS) and/or JPMorgan Chase Bank, N.A., Singapore branch (JPMCB Singapore) which is regulated by the MAS. This material is provided in Singapore only to accredited investors, expert investors and institutional investors, as defined in Section 4A of the Securities and

Futures Act, Cap. 289. Recipients of this document are to contact JPMSS or JPMCB Singapore in respect of any matters arising from, or in connection with, the document. Japan: JPMorgan Securities Japan Co., Ltd. is regulated by the Financial Services Agency in Japan. Malaysia: This material is issued and distributed in Malaysia by JPMorgan Securities (Malaysia) Sdn Bhd (18146-X) which is a Participating Organization of Bursa Malaysia Berhad and a holder of Capital Markets Services License issued by the Securities Commission in Malaysia. Pakistan: J. P. Morgan Pakistan Broking (Pvt.) Ltd is a member of the Karachi Stock Exchange and regulated by the Securities and Exchange Commission of Pakistan. Saudi Arabia: J.P. Morgan Saudi Arabia Ltd. is authorized by the Capital Market Authority of the Kingdom of Saudi Arabia (CMA) to carry out dealing as an agent, arranging, advising and custody, with respect to securities business under licence number 35-07079 and its registered address is at 8th Floor, Al-Faisaliyah Tower, King Fahad Road, P.O. Box 51907, Riyadh 11553, Kingdom of Saudi Arabia. Dubai: JPMorgan Chase Bank, N.A., Dubai Branch is regulated by the Dubai Financial Services Authority (DFSA) and its registered address is Dubai International Financial Centre - Building 3, Level 7, PO Box 506551, Dubai, UAE.

#### **Country and Region Specific Disclosures**

U.K. and European Economic Area (EEA): Unless specified to the contrary, issued and approved for distribution in the U.K. and the EEA by JPMS plc. Investment research issued by JPMS plc has been prepared in accordance with JPMS plc's policies for managing conflicts of interest arising as a result of publication and distribution of investment research. Many European regulators require a firm to establish, implement and maintain such a policy. This report has been issued in the U.K. only to persons of a kind described in Article 19 (5), 38, 47 and 49 of the Financial Services and Markets Act 2000 (Financial Promotion) Order 2005 (all such persons being referred to as "relevant persons"). This document must not be acted on or relied on by persons who are not relevant persons. Any investment or investment activity to which this document relates is only available to relevant persons and will be engaged in only with relevant persons. In other EEA countries, the report has been issued to persons regarded as professional investors (or equivalent) in their home jurisdiction. Australia: This material is issued and distributed by JPMSAL in Australia to "wholesale clients" only. This material does not take into account the specific investment objectives, financial situation or particular needs of the recipient. The recipient of this material must not distribute it to any third party or outside Australia without the prior written consent of JPMSAL. For the purposes of this paragraph the term "wholesale client" has the meaning given in section 761G of the Corporations Act 2001. Germany: This material is distributed in Germany by J.P. Morgan Securities plc, Frankfurt Branch and J.P.Morgan Chase Bank, N.A., Frankfurt Branch which are regulated by the Bundesanstalt für Finanzdienstleistungsaufsicht. Hong Kong: The 1% ownership disclosure as of the previous month end satisfies the requirements under Paragraph 16.5(a) of the Hong Kong Code of Conduct for Persons Licensed by or Registered with the Securities and Futures Commission. (For research published within the first ten days of the month, the disclosure may be based on the month end data from two months prior.) J.P. Morgan Broking (Hong Kong) Limited is the liquidity provider/market maker for derivative warrants, callable bull bear contracts and stock options listed on the Stock Exchange of Hong Kong Limited. An updated list can be found on HKEx website: http://www.hkex.com.hk. Japan: There is a risk that a loss may occur due to a change in the price of the shares in the case of share trading, and that a loss may occur due to the exchange rate in the case of foreign share trading. In the case of share trading, JPMorgan Securities Japan Co., Ltd., will be receiving a brokerage fee and consumption tax (shouhizei) calculated by multiplying the executed price by the commission rate which was individually agreed between JPMorgan Securities Japan Co., Ltd., and the customer in advance. Financial Instruments Firms: JPMorgan Securities Japan Co., Ltd., Kanto Local Finance Bureau (kinsho) No. 82 Participating Association / Japan Securities Dealers Association, The Financial Futures Association of Japan, Type II Financial Instruments Firms Association and Japan Investment Advisers Association. Korea: This report may have been edited or contributed to from time to time by affiliates of J.P. Morgan Securities (Far East) Ltd, Seoul Branch. Singapore: JPMSS and/or its affiliates may have a holding in any of the securities discussed in this report; for securities where the holding is 1% or greater, the specific holding is disclosed in the Important Disclosures section above. India: For private circulation only, not for sale. Pakistan: For private circulation only, not for sale. New Zealand: This material is issued and distributed by JPMSAL in New Zealand only to persons whose principal business is the investment of money or who, in the course of and for the purposes of their business, habitually invest money. JPMSAL does not issue or distribute this material to members of "the public" as determined in accordance with section 3 of the Securities Act 1978. The recipient of this material must not distribute it to any third party or outside New Zealand without the prior written consent of JPMSAL. Canada: The information contained herein is not, and under no circumstances is to be construed as, a prospectus, an advertisement, a public offering, an offer to sell securities described herein, or solicitation of an offer to buy securities described herein, in Canada or any province or territory thereof. Any offer or sale of the securities described herein in Canada will be made only under an exemption from the requirements to file a prospectus with the relevant Canadian securities regulators and only by a dealer properly registered under applicable securities laws or, alternatively, pursuant to an exemption from the dealer registration requirement in the relevant province or territory of Canada in which such offer or sale is made. The information contained herein is under no circumstances to be construed as investment advice in any province or territory of Canada and is not tailored to the needs of the recipient. To the extent that the information contained herein references securities of an issuer incorporated, formed or created under the laws of Canada or a province or territory of Canada, any trades in such securities must be conducted through a dealer registered in Canada. No securities commission or similar regulatory authority in Canada has reviewed or in any way passed judgment upon these materials, the information contained herein or the merits of the securities described herein, and any representation to the contrary is an offence. Dubai: This report has been issued to persons regarded as professional clients as defined under the DFSA rules. Brazil: Ombudsman J.P. Morgan: 0800-7700847 / ouvidoria.jp.morgan@jpmorgan.com.

General: Additional information is available upon request. Information has been obtained from sources believed to be reliable but JPMorgan Chase & Co. or its affiliates and/or subsidiaries (collectively J.P. Morgan) do not warrant its completeness or accuracy except with respect to any disclosures relative to JPMS and/or its affiliates and the analyst's involvement with the issuer that is the subject of the research. All pricing is as of the close of market for the securities discussed, unless otherwise stated. Opinions and estimates constitute our judgment as of the date of this material and are subject to change without notice. Past performance is not indicative of future results. This material is not intended as an offer or solicitation for the purchase or sale of any financial instrument. The opinions and recommendations herein do not take into account individual client circumstances, objectives, or needs and are not intended as recommendations of particular securities, financial instruments or strategies to particular clients. The recipient of this report must make its own independent decisions regarding any securities or financial instruments mentioned herein. JPMS distributes in the U.S. research published by non-U.S. affiliates and accepts responsibility for its contents. Periodic updates may be provided on companies/industries based on company specific developments or announcements, market conditions or any other publicly available information. Clients should contact analysts and execute transactions through a J.P. Morgan subsidiary or affiliate in their home jurisdiction unless governing law permits otherwise.

"Other Disclosures" last revised June 21, 2014.

Copyright 2014 JPMorgan Chase & Co. All rights reserved. This report or any portion hereof may not be reprinted, sold or redistributed without the written consent of J.P. Morgan.