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per country

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| **Country: Austria** | **Changes** |
| OMV |  |
| ERSTE GROUP BANK |  |
| RAIFFEISEN BANK INTERNATIONAL | Deletion |

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| **Country: Australia** | **Changes** |
| VICINITY CENTRES |  |
| DEXUS |  |
| Stockland |  |
| Westpac Banking Corp. |  |
| Mirvac Group |  |
| Brambles Ltd. |  |
| CHARTER HALL GROUP | Addition |
| Commonwealth Bank of Australia |  |
| AMCOR |  |
| Ansell Ltd. |  |
| National Australia Bank Ltd. |  |
| AGL Energy Ltd. | Addition |
| Oil Search Ltd. |  |
| Downer EDI Ltd. |  |
| SYDNEY AIRPORT | Addition |
| Woodside Petroleum Ltd. | Addition |
| Fortescue Metals Group Ltd. |  |
| Telstra Corp. Ltd. |  |
| GPT Group |  |
| South32 Australia |  |
| CLEANAWAY WASTE MANAGEMENT | Addition |
| Goodman Group | Addition |
| Australia & New Zealand Bankin | Addition |
| OZ Minerals Ltd. |  |
| SUNCORP GROUP LTD. | Addition |
| QBE Insurance Group Ltd. | Addition |
| WorleyParsons Ltd. |  |
| BEACH ENERGY | Addition |
| BlueScope Steel Ltd. | Addition |
| Wesfarmers Ltd. |  |
| Rio Tinto Ltd. | Addition |
| WOOLWORTHS GROUP | Deletion |
| Santos Ltd. | Deletion |
| Incitec Pivot Ltd. | Deletion |
| CIMIC GROUP | Deletion |

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| **Country: Belgium** | **Changes** |
| KBC GRP |  |
| ELIA SYSTEM OPERATOR | Addition |
| SOLVAY |  |
| UCB | Addition |
| UMICORE | Deletion |

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| **Country: Canada** | **Changes** |
| Bank of Montreal |  |
| Agnico-Eagle Mines Ltd. |  |
| Teck Resources Ltd. Cl B |  |
| BCE Inc. |  |
| Toronto-Dominion Bank |  |
| Cenovus Energy Inc. |  |
| TELUS |  |
| Royal Bank of Canada |  |
| Thomson Reuters Corp. | Addition |
| FRANCO-NEVADA |  |
| Sun Life Financial Inc. |  |
| Rogers Communications Inc. Cl |  |
| AIR CANADA | Addition |
| Bank of Nova Scotia |  |
| Suncor Energy Inc. | Deletion |
| Manulife Financial Corp. | Deletion |
| Canadian Imperial Bank of Comm | Deletion |

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| **Country: Denmark** | **Changes** |
| ISS AS |  |
| ORSTED |  |
| VESTAS WIND SYSTEMS |  |
| COLOPLAST B |  |
| NOVO NORDISK B |  |
| CHR HANSEN HLDG |  |
| NOVOZYMES | Addition |
| PANDORA | Addition |
| CARLSBERG B | Deletion |

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| **Country: Finland** | **Changes** |
| NOKIA |  |
| NOKIAN RENKAAT |  |
| WARTSILA |  |
| NESTE |  |
| FORTUM |  |
| STORA ENSO R |  |
| KONE B |  |
| UPM KYMMENE |  |
| METSO | Addition |
| Valmet | Addition |
| HUHTAMAKI |  |
| KESKO |  |
| KONECRANES | Addition |
| ORION B |  |

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| **Country: France** | **Changes** |
| VALEO |  |
| AXA |  |
| GECINA |  |
| SUEZ ENVIRONNEMENT |  |
| EDF |  |
| SCHNEIDER ELECTRIC |  |
| ICADE |  |
| TOTAL |  |
| NATIXIS |  |
| TECHNIPFMC |  |
| KLEPIERRE |  |
| JCDECAUX |  |
| PEUGEOT |  |
| Kering |  |
| ORANGE |  |
| COVIVIO |  |
| ACCOR |  |
| MICHELIN |  |
| INGENICO |  |
| ESSILORLUXOTTICA |  |
| ADP |  |
| CHRISTIAN DIOR | Addition |
| LVMH MOET HENNESSY | Addition |
| CAP GEMINI |  |
| SEB |  |
| REXEL | Addition |
| WORLDLINE | Addition |
| BNP PARIBAS |  |
| ATOS |  |
| BUREAU VERITAS |  |
| ALSTOM |  |
| L'OREAL |  |
| CREDIT AGRICOLE |  |
| LAGARDERE |  |
| BIOMERIEUX | Addition |
| LEGRAND |  |
| UNIBAIL-RODAMCO-WESTFIELD | Addition |
| CNP ASSURANCES |  |
| ENGIE | Addition |
| GRP SOCIETE GENERALE |  |
| EURAZEO |  |
| SODEXO |  |
| CARREFOUR |  |
| SAINT GOBAIN |  |
| DANONE |  |
| PERNOD RICARD |  |
| CASINO GUICHARD | Addition |
| SANOFI |  |
| ELIS | Addition |
| BOUYGUES |  |
| SCOR | Deletion |
| Getlink | Deletion |
| BIC | Deletion |
| EDENRED | Deletion |
| AMUNDI | Deletion |

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| **Country: Germany** | **Changes** |
| DEUTSCHE TELEKOM |  |
| OSRAM LICHT |  |
| MUENCHENER RUECK |  |
| ALLIANZ |  |
| HENKEL PREF |  |
| E.ON |  |
| MERCK |  |
| MTU AERO ENGINES |  |
| HUGO BOSS |  |
| AROUNDTOWN (FRA) |  |
| DEUTSCHE POST | Addition |
| TELEFONICA DEUTSCHLAND |  |
| DEUTSCHE BOERSE |  |
| SIEMENS |  |
| GRAND CITY PROPERTIES | Addition |
| INFINEON TECHNOLOGIES | Addition |
| FRAPORT |  |
| SAP |  |
| COVESTRO | Addition |
| BMW |  |
| BRENNTAG |  |
| SYMRISE |  |
| ADIDAS |  |
| BASF | Addition |
| THYSSENKRUPP | Addition |
| KION GROUP | Addition |
| HOCHTIEF |  |
| EVONIK INDUSTRIES |  |
| LANXESS | Addition |
| HANNOVER RUECK | Addition |
| RWE | Addition |
| INNOGY | Addition |
| DAIMLER | Addition |
| METRO AG | Addition |
| HEIDELBERGCEMENT | Deletion |
| BEIERSDORF | Deletion |
| CONTINENTAL | Deletion |
| LINDE | Deletion |

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| **Country: Hong Kong** | **Changes** |
| SWIRE PROPERTIES |  |
| New World Development Co. Ltd. |  |
| CLP Holdings Ltd. | Addition |
| HK ELECTRIC INVESTMENTS | Addition |
| Wheelock & Co. Ltd. |  |
| Kerry Properties Ltd. | Addition |
| AIA GROUP |  |
| Hong Kong & China Gas Co. Ltd. | Addition |
| Hang Seng Bank Ltd. | Deletion |
| Hang Lung Properties Ltd. | Deletion |
| Hang Lung Group Ltd. | Deletion |
| Sino Land Co. Ltd. | Deletion |

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| **Country: Ireland** | **Changes** |
| SMURFIT KAPPA GRP |  |
| CRH |  |

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| **Country: Italy** | **Changes** |
| PIRELLI & C. S.P.A. |  |
| STMICROELECTRONICS |  |
| CNH Industrial NV |  |
| TERNA |  |
| TELECOM ITALIA |  |
| SNAM RETE GAS |  |
| INTESA SANPAOLO |  |
| ENEL |  |
| ENI |  |
| SAIPEM |  |
| ASSICURAZIONI GENERALI |  |
| A2A |  |
| HERA | Addition |
| ITALGAS | Addition |
| MEDIOBANCA | Addition |
| UNICREDIT | Addition |

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| **Country: Japan** | **Changes** |
| Daiwa House Industry Co. Ltd. |  |
| Inpex Corp. |  |
| KONICA MINOLTA INC. |  |
| Kao Corp. |  |
| NIPPON PROLOGIS REIT |  |
| Ebara Corp. | Addition |
| Astellas Pharma Inc. |  |
| WELCIA HOLDINGS |  |
| Aeon Co. Ltd. |  |
| Tokyo Gas Co. Ltd. |  |
| NEC Corp. |  |
| Tokyo Electron Ltd. |  |
| SUMITOMO MITSUI TRUST HOLDINGS |  |
| Fujitsu Ltd. |  |
| ANRITSU | Addition |
| MS&AD Insurance Group Holdings |  |
| Nikon Corp. |  |
| Mizuho Financial Group Inc. |  |
| Nabtesco Corp. |  |
| LIXIL GROUP |  |
| Bridgestone Corp. | Addition |
| Nomura Holdings Inc. |  |
| NTT DoCoMo Inc. |  |
| Daikin Industries Ltd. |  |
| NGK Insulators Ltd. |  |
| Omron Corp. |  |
| Mitsubishi UFJ Financial Group |  |
| NSK Ltd. | Addition |
| Orix JREIT Inc. | Addition |
| Toto Ltd. |  |
| DIC Corp. | Addition |
| Eisai Co. Ltd. | Addition |
| Nippon Telegraph & Telephone C |  |
| Seven & I Holdings Co. Ltd. |  |
| Sompo Holdings |  |
| Sojitz Corp. | Addition |
| Mazda Motor Corp. | Addition |
| AGC |  |
| East Japan Railway Co. | Deletion |
| Komatsu Ltd. | Deletion |
| JXTG HOLDINGS INC. | Deletion |
| Ricoh Co. Ltd. | Deletion |
| Kubota Corp. | Deletion |
| Resona Holdings Inc. | Deletion |
| T&D Holdings Inc. | Deletion |
| Uni-Charm Corp. | Deletion |
| Kawasaki Heavy Industries Ltd. | Deletion |
| Advantest Corp. | Deletion |
| Toyota Tsusho Corp. | Deletion |
| Furukawa Electric Co. Ltd. | Deletion |
| Showa Denko K.K. | Deletion |
| Asics Corp. | Deletion |
| Lion Corp. | Deletion |
| Taiheiyo Cement Corp. | Deletion |
| Dai-ichi Life Holdings | Deletion |

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| **Country: Luxembourg** | **Changes** |
| ARCELORMITTAL | Addition |

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| **Country: Netherlands** | **Changes** |
| SIGNIFY |  |
| ABN AMRO BANK |  |
| KONINKLIJKE DSM |  |
| NN GROUP |  |
| ASML HLDG |  |
| KPN |  |
| ING GRP |  |
| AKZO NOBEL |  |
| PHILIPS |  |
| SBM OFFSHORE | Addition |
| AALBERTS |  |
| RANDSTAD | Addition |
| AEGON | Addition |
| ASR NEDERLAND NV | Addition |
| WOLTERS KLUWER |  |
| UNILEVER NV | Addition |
| VOPAK |  |
| HEINEKEN | Addition |
| AHOLD DELHAIZE |  |
| HEINEKEN HLDG | Addition |
| BOSKALIS WESTMINSTER | Deletion |

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| **Country: New Zealand** | **Changes** |
| MERIDIAN ENERGY | Addition |
| FISHER & PAYKEL HLTHCR. |  |

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| **Country: Norway** | **Changes** |
| DNB |  |
| NORSK HYDRO |  |
| TELENOR |  |
| EQUINOR |  |
| SCHIBSTED GRUPPEN |  |
| STOREBRAND |  |
| SUBSEA7 |  |

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| **Country: Portugal** | **Changes** |
| GALP ENERGIA |  |
| EDP ENERGIAS DE PORTUGAL |  |
| JERONIMO MARTINS |  |

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| **Country: Singapore** | **Changes** |
| City Developments Ltd. |  |
| Singapore Telecommunications L | Addition |
| Singapore Technologies Enginee |  |
| Thai Beverage PCL | Addition |
| CapitaLand Ltd. | Deletion |
| Singapore Exchange Ltd. | Deletion |
| CAPITALAND MALL TRUST MGMT | Deletion |
| CapitaLand Commercial Trust | Deletion |

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| **Country: Spain** | **Changes** |
| REPSOL |  |
| RED ELECTRICA CORPORATION |  |
| ENAGAS |  |
| ENDESA |  |
| TELEFONICA |  |
| IBERDROLA |  |
| Naturgy Energy Group |  |
| Industria de Diseno Textil SA |  |
| BANKINTER | Addition |
| CELLNEX TELECOM | Addition |
| CAIXABANK | Addition |
| MAPFRE |  |
| AENA SME |  |
| FERROVIAL |  |
| SIEMENS GAMESA | Deletion |
| ACS | Deletion |

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| **Country: Sweden** | **Changes** |
| SKANDINAVISKA ENSKILDA BK A |  |
| CASTELLUM |  |
| ELECTROLUX B |  |
| Essity B |  |
| TELIA COMPANY |  |
| SANDVIK |  |
| SVENSKA HANDELSBANKEN A |  |
| LUNDIN PETROLEUM |  |
| SKF B |  |
| NORDEA BANK |  |
| BOLIDEN |  |
| ERICSSON LM B |  |
| SAAB B |  |
| SWEDBANK |  |
| FABEGE |  |
| ASSA ABLOY |  |
| HEXPOL 'B' |  |
| ATLAS COPCO A |  |
| NIBE INDUSTRIER B |  |
| SVENSKA CELLULOSA B | Addition |
| EPIROC A | Addition |
| VOLVO B |  |
| ALFA LAVAL | Addition |
| SKANSKA B | Addition |
| SWEDISH MATCH | Deletion |
| HUSQVARNA B | Deletion |
| HENNES & MAURITZ B | Deletion |

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| **Country: Switzerland** | **Changes** |
| SWISSCOM |  |
| ZURICH INSURANCE GROUP |  |
| SONOVA |  |
| CLARIANT |  |
| GEBERIT |  |
| SWISS REINSURANCE COMPANY |  |
| CIE FINANCIERE RICHEMONT |  |
| BARRY CALLEBAUT | Addition |
| NESTLE |  |
| ABB | Addition |
| SGS |  |
| LafargeHolcim |  |
| LOGITECH INTERNATIONAL | Addition |
| GIVAUDAN | Addition |
| ROCHE HLDG P | Addition |
| GEORG FISCHER |  |
| ADECCO |  |
| UBS GROUP | Deletion |

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| **Country: United Kingdom** | **Changes** |
| POLYMETAL INTERNATIONAL |  |
| LAND SECURITIES |  |
| CENTRICA |  |
| MONDI |  |
| RELX PLC |  |
| 3I GROUP PLC. | Addition |
| BARRATT DEVELOPMENTS |  |
| BRITISH LAND COMPANY |  |
| JUPITER FUND MANAGEMENT |  |
| HAMMERSON |  |
| GREGGS | Addition |
| INVESTEC |  |
| DS SMITH |  |
| ANGLO AMERICAN | Addition |
| DERWENT LONDON |  |
| LLOYDS BANKING GRP |  |
| SEVERN TRENT | Addition |
| BT GRP |  |
| AVIVA |  |
| VODAFONE GRP |  |
| UNITED UTILITIES GRP |  |
| WHITBREAD |  |
| PRUDENTIAL |  |
| ROYAL MAIL |  |
| MARKS & SPENCER GRP |  |
| KINGFISHER |  |
| RECKITT BENCKISER GRP |  |
| NEW WH SMITH | Addition |
| TULLOW OIL |  |
| ANTOFAGASTA |  |
| ITV |  |
| JOHNSON MATTHEY | Addition |
| PEARSON |  |
| DIAGEO |  |
| SCOTTISH & SOUTHERN ENERGY |  |
| GLAXOSMITHKLINE | Addition |
| CRODA INTERNATIONAL |  |
| PENNON GRP |  |
| UNILEVER PLC | Addition |
| COCA-COLA HBC |  |
| LEGAL & GENERAL GRP |  |
| BURBERRY |  |
| BRITVIC |  |
| CONVATEC PLC | Addition |
| TUI |  |
| ASTRAZENECA |  |
| SPIRAX-SARCO |  |
| AGGREKO | Addition |
| WOOD GRP (JOHN) | Addition |
| RIO TINTO | Addition |
| NATIONAL GRID | Addition |
| RENTOKIL INITIAL |  |
| WPP | Addition |
| COMPASS GRP |  |
| SAINSBURY (J) |  |
| STANDARD CHARTERED | Addition |
| FERGUSON PLC | Deletion |
| TRAVIS PERKINS | Deletion |
| STANDARD LIFE ABERDEEN | Deletion |
| SCHRODERS | Deletion |
| NEXT | Deletion |
| INTERCONTINENTAL HOTELS GRP | Deletion |
| IMI | Deletion |
| GREAT PORTLAND ESTATES | Deletion |
| BUNZL | Deletion |

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| **Country: United States** | **Changes** |
| Intel Corp. |  |
| HP Inc. | Addition |
| PROLOGIS INC. |  |
| Seagate Technology Inc. |  |
| Hewlett Packard Enterprise |  |
| ON SEMICON. |  |
| NEWMONT GOLDCORP |  |
| XYLEM |  |
| Kimberly-Clark Corp. |  |
| Coca-Cola European Partners |  |
| NVIDIA Corp. |  |
| Cisco Systems Inc. | Addition |
| Verizon Communications Inc. | Addition |
| KEYSIGHT TECHNOLOGIES |  |
| CMS ENERGY |  |
| Analog Devices Inc. | Addition |
| Texas Instruments Inc. |  |
| EATON CORP. PLC |  |
| Xcel Energy Inc. | Addition |
| MOTOROLA SOLUTIONS INC. | Addition |
| Hess Corp. |  |
| JPMorgan Chase & Co. |  |
| Ball Corp. | Addition |
| Prudential Financial Inc. |  |
| Microsoft Corp. |  |
| Accenture PLC Cl A |  |
| State Street Corp. |  |
| Eversource Energy |  |
| Colgate-Palmolive Co. |  |
| Amdocs Ltd. | Addition |
| Kellogg Co. | Addition |
| Air Products & Chemicals Inc. | Addition |
| INTL.FLAVORS & FRAG. |  |
| Illinois Tool Works Inc. | Addition |
| VOYA FINANCIAL | Addition |
| Public Service Enterprise Grou | Addition |
| Exelon Corp. | Addition |
| Salesforce.com Inc. |  |
| Devon Energy Corp. | Addition |
| Maxim Integrated Products Inc. | Addition |
| S&P GLOBAL |  |
| Edwards Lifesciences Corp. | Addition |
| BIOGEN INC. |  |
| Bank of America Corp. | Addition |
| Johnson Controls PLC |  |
| ConocoPhillips | Addition |
| ADOBE |  |
| NiSource Inc. | Addition |
| Lam Research Corp. | Addition |
| W.W. Grainger Inc. |  |
| MEDTRONIC PLC |  |
| General Mills Inc. |  |
| ROYAL CARIBBEAN CRUISES |  |
| Pinnacle West Capital Corp. | Addition |
| Qualcomm Inc. | Addition |
| KLA |  |
| Ventas Inc. |  |
| Ingersoll-Rand Co. Ltd. | Addition |
| Western Digital Corp. | Addition |
| Avery Dennison Corp. |  |
| HILTON |  |
| Symantec Corp. |  |
| Merck & Co. Inc. | Addition |
| Clorox Co. |  |
| LIBERTY GLOBAL 'C' |  |
| Northern Trust Corp. |  |
| Las Vegas Sands Corp. |  |
| SL Green Realty Corp. |  |
| Eastman Chemical Co. | Addition |
| CBRE GP. |  |
| Avalonbay Communities Inc. |  |
| General Electric Co. | Deletion |
| Home Depot Inc. | Deletion |
| Boston Properties Inc. | Deletion |
| Intuit Inc. | Deletion |
| Host Hotels & Resorts Inc. | Deletion |
| Weyerhaeuser Co. | Deletion |
| Rockwell Automation Corp. | Deletion |
| Molson Coors Brewing Co. Cl B | Deletion |
| Welltower Inc. | Deletion |
| Masco Corp. | Deletion |
| REGENCY CENTERS | Deletion |
| UNITED RENTALS | Deletion |