

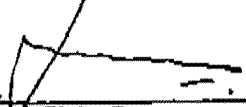
PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT5546931

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
DERK PIETER BROUWER	08/01/2002
RECEIVING PARTY DATA	
Name:	NEX GROUP PLC
Street Address:	2 BROADGATE
City:	LONDON
State/Country:	UNITED KINGDOM
Postal Code:	EC2M 7UR
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	13184817
CORRESPONDENCE DATA	
Fax Number:	
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
Phone:	3122910860
Email:	docket-us@lsk-iplaw.com, michelle.marsh@cmegroup.com
Correspondent Name:	LEMPIA SUMMERFIELD KATZ LLC
Address Line 1:	20 SOUTH CLARK STREET
Address Line 2:	SUITE 600
Address Line 4:	CHICAGO, ILLINOIS 60603
ATTORNEY DOCKET NUMBER:	004672-00005D-US
NAME OF SUBMITTER:	JAMES L. KATZ
SIGNATURE:	/James L. Katz/
DATE SIGNED:	05/30/2019
Total Attachments: 6	
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source=Inventor to NEX#page5.tif	

former PTO/SB/15 (8-00) Modified LDLKM

ASSIGNMENT OF UTILITY APPLICATION	Docket Number (Optional) DAVIDK 3.9-005 CIP
Whereas, I, <u>Derk Pieter Brouwer</u> of <u>De Lalressestraat 176K, 1075 HM Amsterdam, NETHERLANDS</u>	
hereafter referred to as assignor, have invented certain new and useful improvements in A SYSTEM AND METHOD OF IMPLEMENTING MASSIVE EARLY TERMINATIONS OF LONG TERM FINANCIAL CONTRACTS	
<input checked="" type="checkbox"/> for which an application for a United States Letters Patent was filed on <u>May 24, 2002</u> Application Number <u>10/154,689</u> <input type="checkbox"/> for which an application for a United States Letters Patent was executed by me on _____ <input type="checkbox"/> for which an International Application was filed on _____ _____, designating the United States.	
And	
Whereas, <u>TriOptima AB</u> a corporation of <u>Sweden</u> herein referred to as "assignee" whose mailing address is <u>Storskogsvägen 13, SE-167 65 Bromma, SWEDEN</u> is desirous of acquiring the entire right, title and interest in the same;	
<p>NOW, THEREFORE, in consideration of the sum of <u>one</u> dollars (\$ <u>1.00</u>), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee the entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications to be borne and paid by said assignee.</p>	
<u>1. 8. 02 (1st Aug)</u> Date	 Derk Pieter Brouwer
<u>H. Croft</u> Witness	
<u>HEATHER CROFT</u> Printed Name of Witness	

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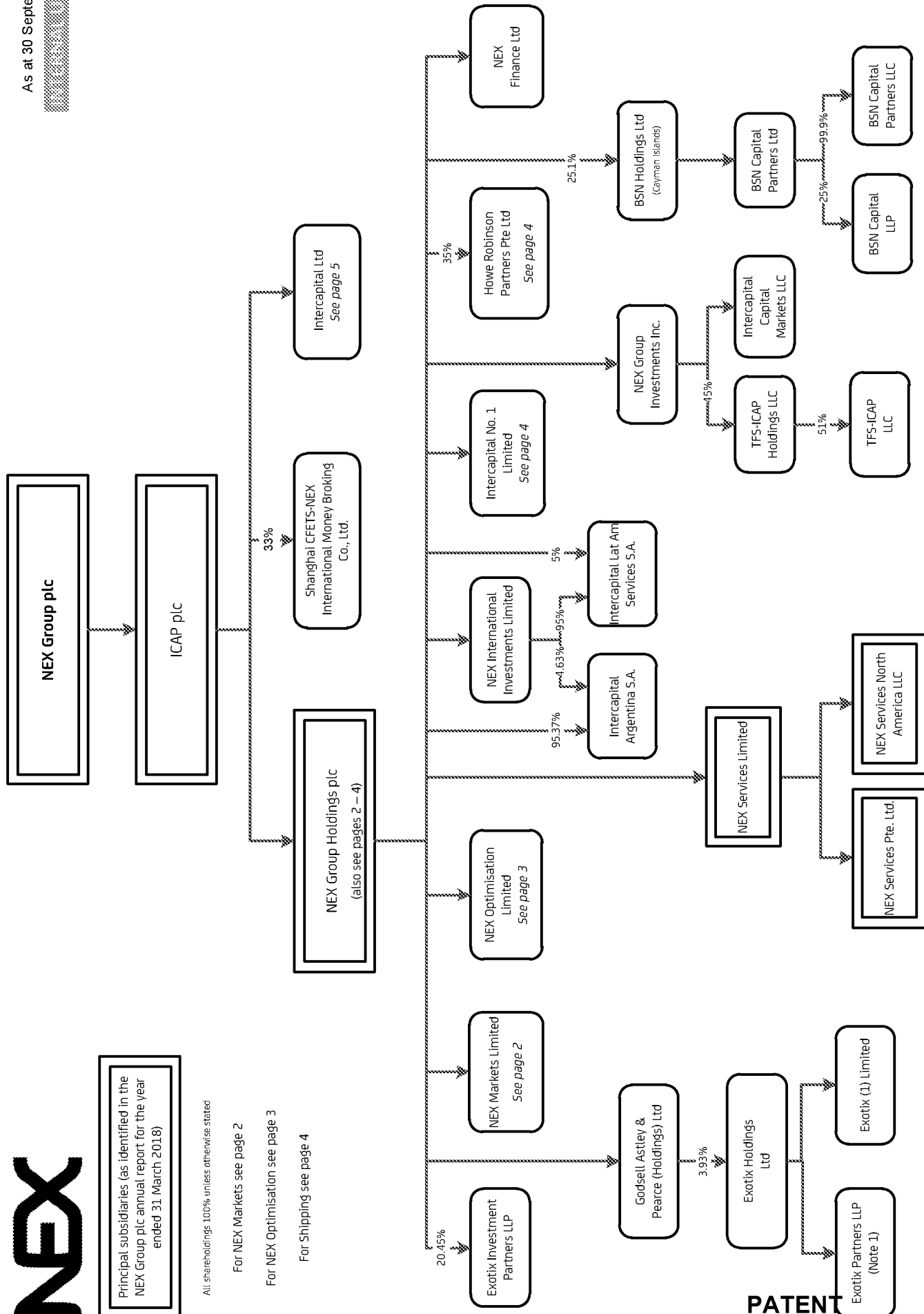
Principal subsidiaries (as identified in the NEX Group plc annual report for the year ended 31 March 2018)

All shareholdings 100% unless otherwise stated

For NEX Markets see page 2

For NEX Optimisation see page 3

For Shipping see page 4



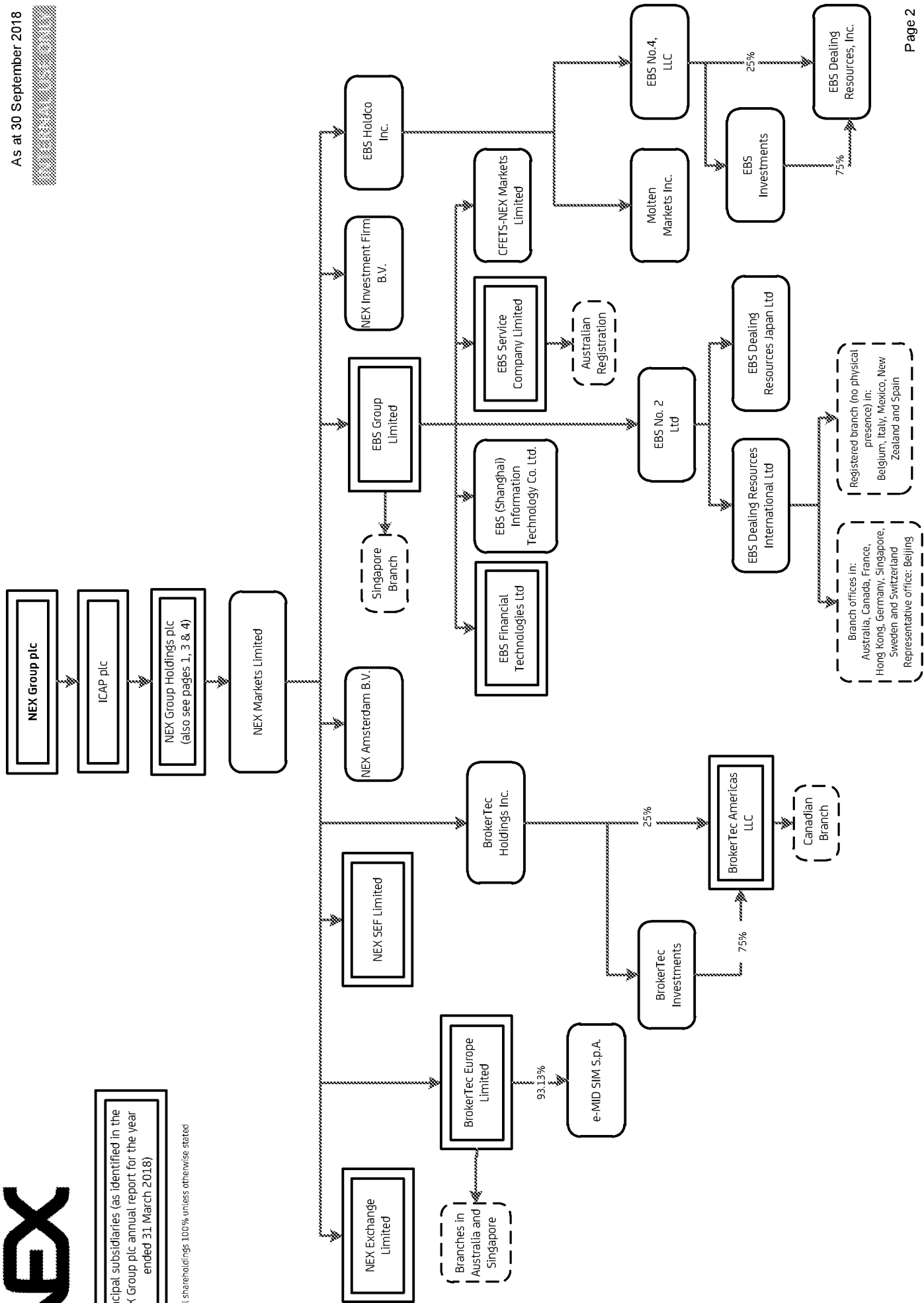
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Note 1: Exotix Limited holds one capital point in Exotix Partners LLP on trust for Exotix Holdings Limited.



Principal subsidiaries (as identified in the NEX Group plc annual report for the year ended 31 March 2018)

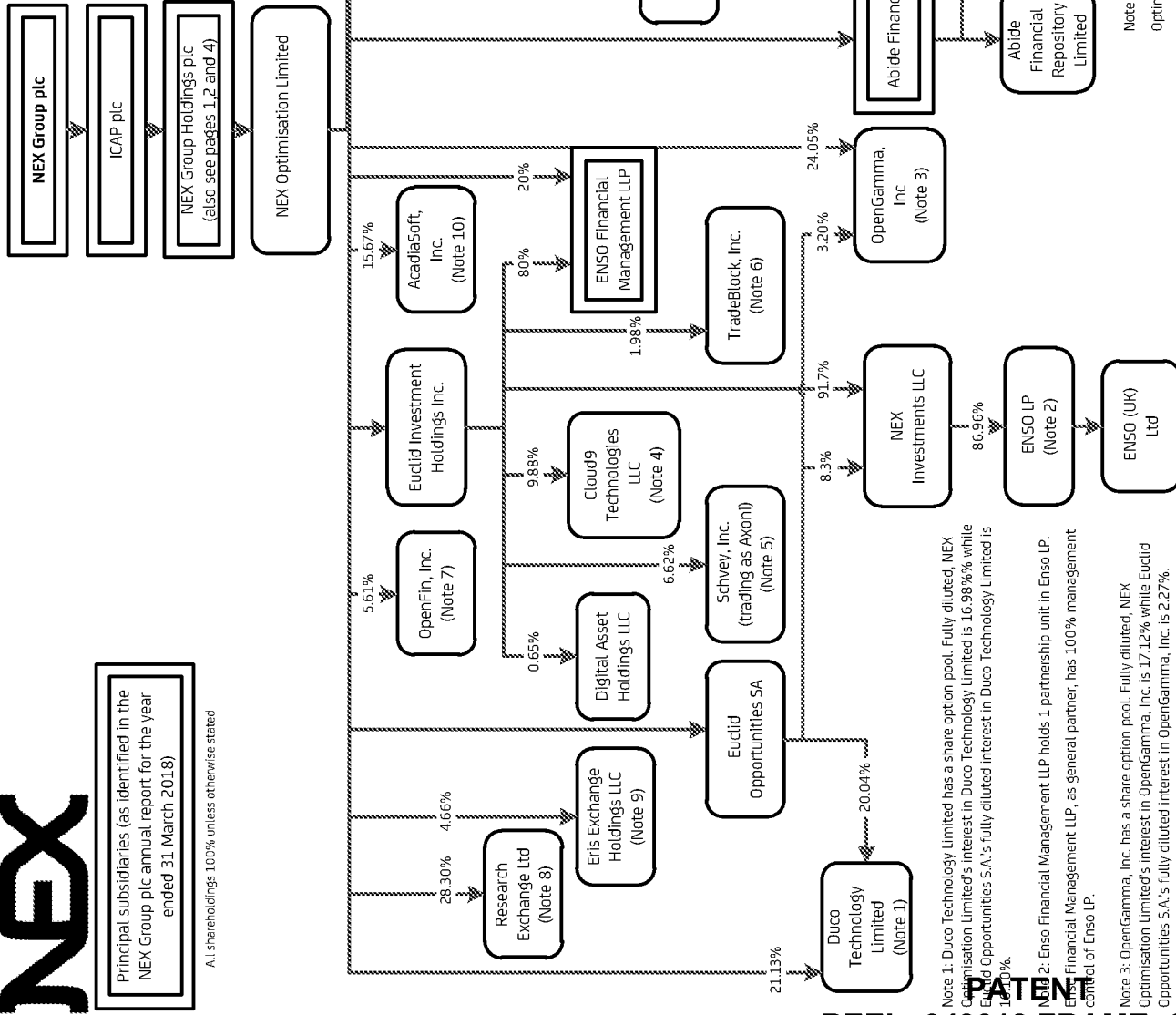
All shareholdings 100% unless otherwise stated





Principal subsidiaries (as identified in the NEX Group plc annual report for the year ended 31 March 2018)

All shareholdings 100% unless otherwise stated



Note 1: Duco Technology Limited has a share option pool. Fully diluted, NEX Optimisation Limited's interest in Duco Technology Limited is 16.98% while Euclid Opportunities S.A.'s fully diluted interest in Duco Technology Limited is 1.49%.

Note 2: ENSO Financial Management LLP holds 1 partnership unit in Enso LP. ENSO Financial Management LLP, as general partner, has 100% management control of Enso LP.

Note 3: OpenGamma, Inc. has a share option pool. Fully diluted, NEX Optimisation Limited's interest in OpenGamma, Inc. is 17.12% while Euclid Opportunities S.A.'s fully diluted interest in OpenGamma, Inc. is 2.27%.

Note 4: Euclid Investment Holdings Inc. has a 9.88% voting interest and a 8.88% economic interest in Cloud9 Technologies LLC.

Note 5: Schvey, Inc. has a share option pool. Fully diluted, Euclid Investment Holdings, Inc.'s interest in Schvey, Inc. is 5.96%

Note 6: TradeBlock, Inc. has a share option pool. Fully diluted, Euclid Investment Holdings, Inc.'s interest in TradeBlock, Inc. is 1.70%.

Note 7: OpenFin, Inc. has a share option pool. Fully diluted, NEX Optimisation Limited's interest in OpenFin, Inc. is 4.89%.

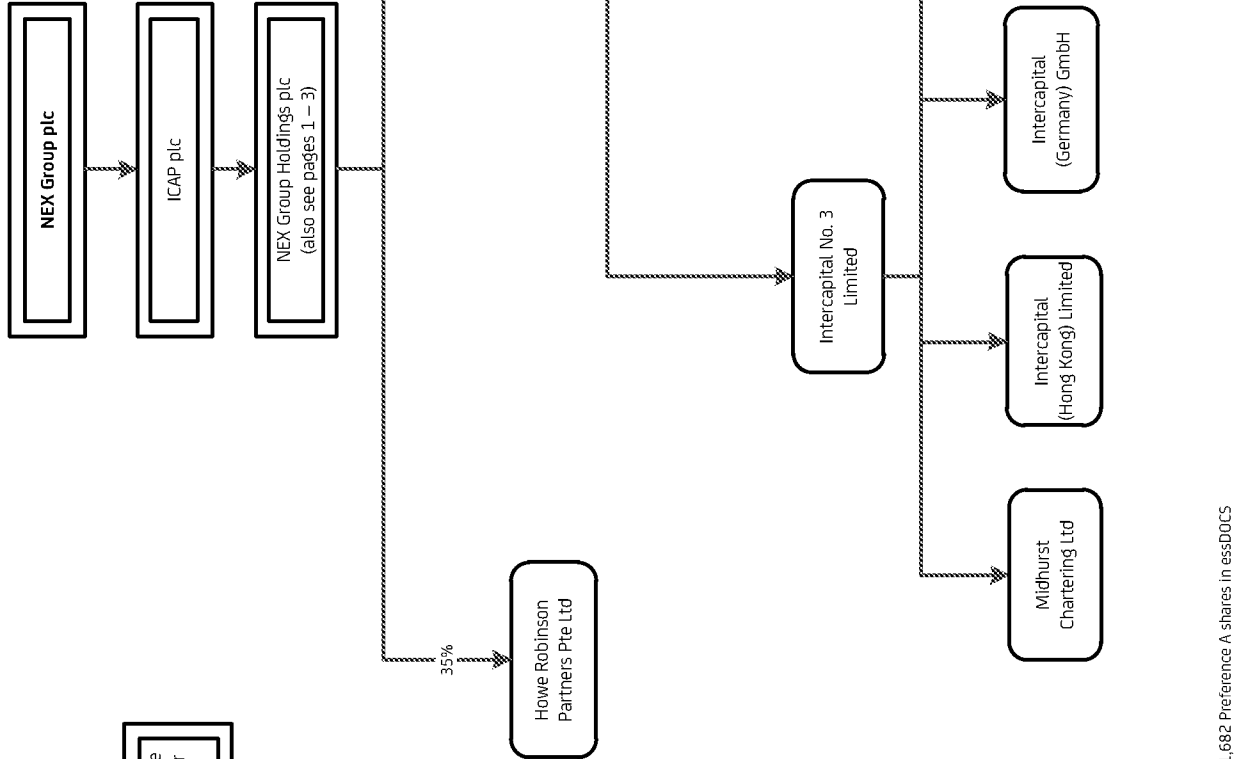
Note 8: Research Exchange Ltd has a share option pool. Fully diluted NEX Optimisation Limited's interest in Research Exchange Ltd is 26.32%.

Note 9: Eris Exchange Holdings, LLC has an equity incentive plan and stock reserved for liquidity providers. Fully diluted, NEX Optimisation Limited has a 4.09% interest in Eris Exchange Holdings, LLC.

Note 10: AcadiaSoft, Inc. has granted non-voting restricted stock awards. Fully diluted, NEX Optimisation Limited's interest in AcadiaSoft, Inc. is 13.85%.

Principal subsidiaries (as identified in the NEX Group plc annual report for the year ended 31 March 2018)

All shareholdings 100% unless otherwise stated



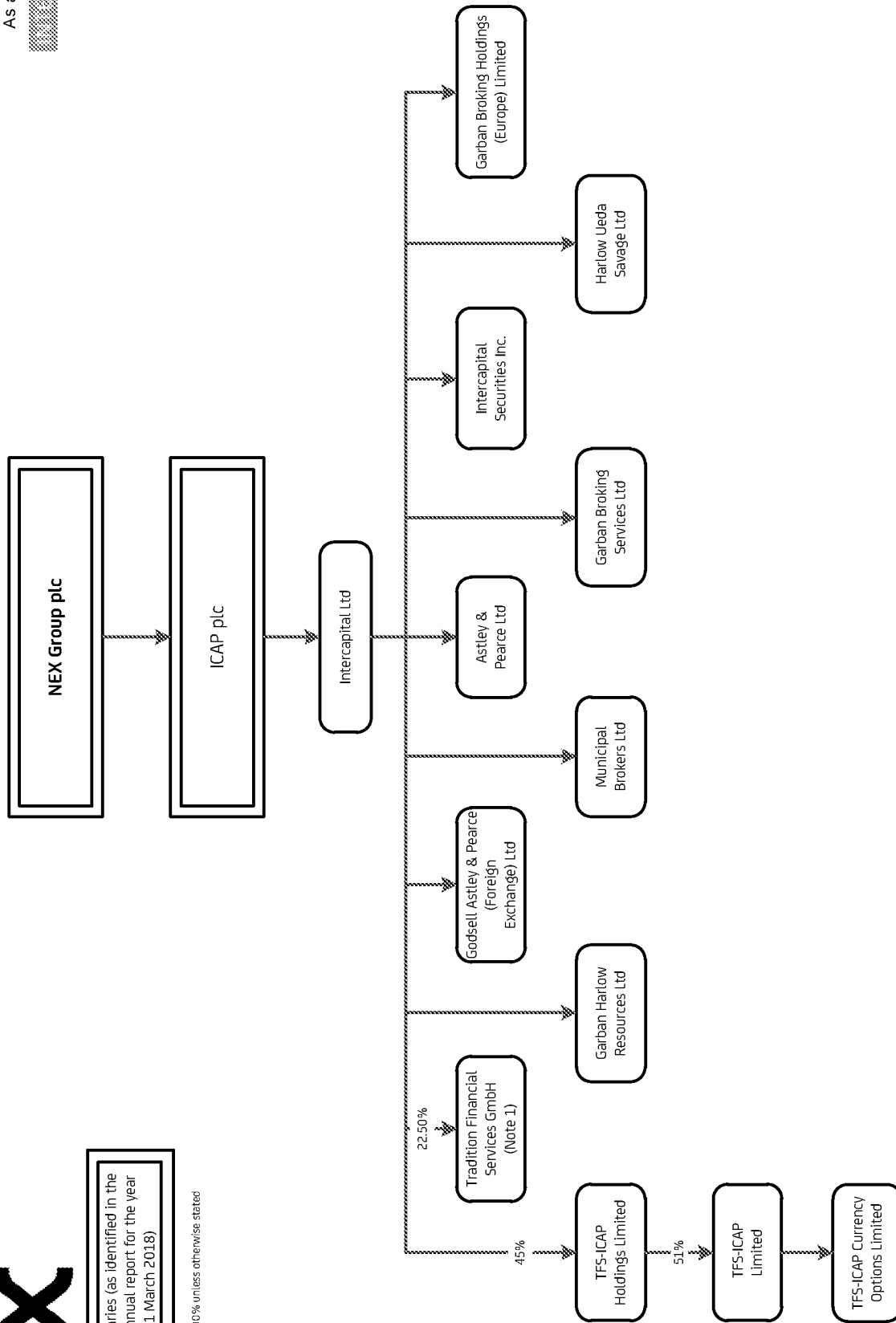
Note 1: Intercapital No. 1 Limited holds 11,682 Preference A shares in essDOCS Limited.

Note 2: Intercapital No. 2 Limited has 50% voting interest and 45% economic interest in Capital Shipbrokers Ltd.



Principal subsidiaries (as identified in the NEX Group plc annual report for the year ended 31 March 2018)

All shareholdings 100% unless otherwise stated



Note 1: Intercapital Limited has 33.33% nominal holding and 22.50% voting and economic interest in Tradition Financial Services GmbH.