

## TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

ETAS ID: TM386409

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT		
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT OF THE ENTIRE INTEREST AND THE GOODWILL		
<b>CONVEYING PARTY DATA</b>			
<b>Name</b>	<b>Formerly</b>	<b>Execution Date</b>	<b>Entity Type</b>
FRANK RUSSELL COMPANY		06/01/2016	Corporation:
<b>RECEIVING PARTY DATA</b>			
<b>Name:</b>	RUSSELL INVESTMENTS GROUP INC.		
<b>Street Address:</b>	C/O CT CORPORATION SYSTEM		
<b>Internal Address:</b>	505 UNION AVENUE SE, SUITE 120		
<b>City:</b>	OLYMPIA		
<b>State/Country:</b>	WASHINGTON		
<b>Postal Code:</b>	98501		
<b>Entity Type:</b>	Corporation: WASHINGTON		
<b>PROPERTY NUMBERS Total: 17</b>			
<b>Property Type</b>	<b>Number</b>	<b>Word Mark</b>	
<b>Serial Number:</b>	86430210	AGENCY FX	
<b>Registration Number:</b>	4158778	DC DIRECTIONS	
<b>Registration Number:</b>	3959178	INNOVATE EVERY DAY	
<b>Registration Number:</b>	3702622	ONE FUND	
<b>Registration Number:</b>	4029056	OPENWORLD	
<b>Registration Number:</b>	3854008	LIFEPOINTS	
<b>Registration Number:</b>	2014267	LIFEPOINTS	
<b>Registration Number:</b>	2012499	LIFEPOINTS	
<b>Registration Number:</b>	2016210	LIFEPOINTS	
<b>Registration Number:</b>	4053724	LIFEPOINTS CONNECT	
<b>Registration Number:</b>	2866949	MULTI ASSET MULTI STYLE MULTI MANAGER	
<b>Registration Number:</b>	2574342	MULTI ASSET MULTI STYLE MULTI MANAGER	
<b>Registration Number:</b>	4053590	CONVERSATION [YIELDS] INNOVATION	
<b>Registration Number:</b>	2416215	IMPROVING FINANCIAL SECURITY FOR PEOPLE.	
<b>Registration Number:</b>	4733935	INVESTED. TOGETHER.	
<b>Registration Number:</b>	4288385	INVEST TOGETHER	
<b>Registration Number:</b>	3938960	ONE FUND AND YOU'RE DONE	

OP \$440.00 86430210

**CORRESPONDENCE DATA****Fax Number:** 6175231231*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.***Phone:** 617-570-1000**Email:** mbreault@goodwinprocter.com, patentBOS@goodwinprocter.com**Correspondent Name:** GOODWIN PROCTER LLP-PATENT ADMINISTRATOR**Address Line 1:** 53 STATE STREET**Address Line 4:** BOSTON, MASSACHUSETTS 02109**NAME OF SUBMITTER:** JOEL E. LEHRER**SIGNATURE:** /Joel E. Lehrer/**DATE SIGNED:** 06/02/2016**Total Attachments: 66**

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**ASSIGNOR**

**AND**

**ASSIGNEE**

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**INTELLECTUAL PROPERTY ASSIGNMENT**

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## **ANNEXES**

Annex A – Definitions and Interpretation

Annex B – Assigned Patents

Annex C – Assigned Trademarks

Annex D – Assigned Domain Names

Annex E – Transferred Software

Annex F – Corporate Support Software

Annex G – Business Operational Software

**INTELLECTUAL PROPERTY ASSIGNMENT**

**THIS INTELLECTUAL PROPERTY ASSIGNMENT (this Assignment) dated as of**

(b) the Assigned Trademarks and the Assigned Domain Names, together, in each case, with: (A) the goodwill of the IM Business connected with their use and symbolized by them; (B) the right to sue and recover for past, present, and future infringement of the Assigned Trademarks and the Assigned Domain Names, and (C) the right to initiate other Proceedings before all governmental authorities with respect to the Assigned Trademarks and the Assigned Domain Names.

## **2.2 Conveyance and acceptance of unregistered Intellectual Property**

Subject to Section 3.1, the Assignor conveys, transfers and assigns to the Assignee, and the Assignee accepts the conveyance, transfer and assignment of, all of the Assignor's right, title, and interest in and to the Assigned Unregistered Intellectual Property, together with: (a) the right to sue and recover for any past, present, and future infringement or misappropriation of any of the Assigned Unregistered Intellectual Property; and (b) the right to initiate other Proceedings before all governmental authorities with respect to any of the Assigned Unregistered Intellectual Property.

# **ARTICLE III**

## **3.1 Third party consents**

Without prejudice to Assignee's rights under the SAPA:

(a) Each Party shall use its reasonable best efforts to obtain any consent, approval or amendment required to convey, transfer and assign the Assigned Unregistered Intellectual Property to the Assignee in accordance with Article II;

(b) In the event and to the extent that the Parties are unable to obtain any such required consent, approval or amendment, or if any attempted conveyance, transfer and assignment would be ineffective, the Parties shall cooperate (to the extent permitted by applicable law) in a mutually agreeable arrangement under which the Assignee would, to the extent possible and permissible under any applicable agreement, obtain the benefits of the affected Assigned Unregistered Intellectual Property, in accordance with this Assignment; and

(c) If and when any such consent, approval or amendment shall be obtained or such Assigned Unregistered Intellectual Property shall otherwise become assignable, the Assignor shall promptly convey, transfer and assign all of its rights, title and interest thereunder to the Assignee and the Assignee shall assume such rights, title and interest.

## **3.2 Further assurances**

The Assignor shall, at the Assignee's cost, perform all further acts, and execute and deliver all further documents required by law or which the Assignee reasonably requests for the purpose of vesting the full benefit of the rights, title and interests conveyed, transferred and assigned to the Assignee under this Assignment, including executing as soon as reasonably practicable any agreements or other documents required by the Assignee to effect registration or recordal of the assignment of any of the Assigned Patents, the Assigned Trademarks or the Assigned Domain Names to the Assignee in any jurisdiction.

## ARTICLE IV

### Miscellaneous provisions

#### 4.1 Interpretation

4.1.1 In this Assignment:

(a) when a reference is made to Articles, Sections, or Annexes, such reference is to an Article of, Section of, or Annex to this Assignment unless otherwise indicated;

(b) the table of contents and headings contained in this Assignment are for reference purposes only and do not affect in any way the meaning or interpretation of this Assignment;

(c) whenever the words “include,” “includes” or “including” are used in this Assignment, they shall be deemed to be followed by the words “without limitation”;

(d) all pronouns and any variations thereof refer to the masculine, feminine or neuter, single or plural, as the context may require and all capitalized terms defined in Annex A are equally applicable to the singular and plural forms thereof; and

(e) references to any person include the successors and permitted assigns of that person.

4.1.2 The Parties have participated jointly in the negotiation and drafting of this Assignment. In the event any ambiguity or question of intent or interpretation arises, this Assignment shall be construed as if drafted jointly by both Parties, and no presumption or burden of proof shall arise favoring or disfavoring either Party by virtue of the authorship of any provision of this Assignment.

4.1.3 The Annexes to this Assignment are incorporated in, and form part of, this Assignment.

#### 4.2 Amendments and waivers

This Assignment may not be amended, altered or modified, and no provision in this Assignment may be waived, except by written instrument executed by each of the Parties. No waiver shall constitute a waiver of, or estoppel with respect to, any subsequent or other inaccuracy, breach or failure to strictly comply with the provisions of this Assignment.

#### 4.3 Notices

All notices and other communications under this Assignment shall be in writing and be deemed given and received (a) if delivered in person, on the date delivered, (b) if transmitted by facsimile (provided that receipt is confirmed by telephone), on the date sent, (c) if delivered by an express courier, on the second Business Day after mailing or (d) if transmitted by e-mail (provided that delivery is confirmed), on the date sent, to the Parties at the following addresses (or at such other address for a Party as is specified to the other Parties by like notice)



If to the Assignor:

London Stock Exchange Group plc  
10 Paternoster Square  
London, EC4M 7LA  
United Kingdom

Facsimile: +44 (0)20 7334 8908  
Attention: Catherine Johnson, General Counsel  
Email: [cjohnson@lsegroup.com](mailto:cjohnson@lsegroup.com)

with a copy (which shall not constitute notice) to:

Freshfields Bruckhaus Deringer US LLP  
31st Floor  
601 Lexington Ave  
New York, NY 10022  
Facsimile: +1 212 277 4001  
Attention: Peter Lyons  
Attention: Doug Bacon  
Email: [peter.lyons@freshfields.com](mailto:peter.lyons@freshfields.com)  
Email: [doug.bacon@freshfields.com](mailto:doug.bacon@freshfields.com)

Freshfields Bruckhaus Deringer LLP  
65 Fleet Street  
London EC4Y 1HS  
Facsimile: +44 20 7832 7001  
Attention: Andrew Hutchings  
Email: [andrew.hutchings@freshfields.com](mailto:andrew.hutchings@freshfields.com)

If to the Assignee:

Emerald Acquisition Limited  
c/o TA Associates Management, L.P.  
64 Willow Place, Suite 100  
Menlo Park, CA 94025  
Facsimile: (650) 473-2235  
Attention: Todd R. Crockett  
Email: [TCrockett@ta.com](mailto:TCrockett@ta.com)

with a copy (which shall not constitute notice) to:

Goodwin Procter LLP  
Exchange Place  
53 State Street  
Boston, MA 02109  
Facsimile: +1 617 523 1231

Attention: John R. LeClaire  
Attention: Amber R.E. Dolman  
Email: [jleclaire@goodwinprocter.com](mailto:jleclaire@goodwinprocter.com)  
Email: [adolman@goodwinprocter.com](mailto:adolman@goodwinprocter.com)

#### **4.4 Counterparts**

This Assignment may be executed in two or more counterparts, each of which shall be deemed an original, but all of which taken together constitute one and the same agreement, it being understood that both Parties need not sign the same counterpart.

#### **4.5 Severability**

Any term or provision of this Assignment which is invalid or unenforceable in any jurisdiction shall, as to that jurisdiction, be ineffective to the extent of such invalidity or unenforceability without rendering invalid or unenforceable the remaining terms and provisions of this Assignment or affecting the validity or enforceability of any of the terms or provisions of this Assignment in any other jurisdiction. If any provision of this Assignment is so broad as to be unenforceable, the provision shall be interpreted to be only so broad as is enforceable.

#### **4.6 Governing law**

(a) This Assignment and all disputes, claims, controversies and disagreements (whether in contract, tort, or otherwise) arising out of, relating to, or in connection with this Assignment (including its formation, existence, validity, enforceability, performance or termination) shall be governed in all respects by the laws of the State of New York, without giving effect to its principles or rules of conflict of laws, to the extent such principles or rules are not mandatorily applicable by statute and would permit or require the application of the applicable laws of another jurisdiction.

(b) Except as otherwise expressly provided in this Assignment, all disputes, claims, controversies and disagreements (whether in contract, tort, or otherwise) arising out of, relating to, or in connection with this Assignment (including its formation, existence, validity, enforceability, performance or termination) shall be finally settled under the Rules of Arbitration of the International Chamber of Commerce by three arbitrators appointed in accordance with the said Rules. The legal seat of the arbitration shall be New York, New York, USA. The language of the arbitration shall be English. Judgment upon any award rendered by the arbitrators may be entered in any state or federal court having jurisdiction thereof. This agreement to arbitrate constitutes a waiver of any right to sovereign immunity from suit or execution to which either Party might otherwise be entitled with respect to the recognition and enforcement of any award rendered by an arbitral tribunal constituted pursuant to this Assignment.

(c) The Parties agree to the consolidation of any arbitration arising under this Assignment with any arbitration arising under any other Ancillary Agreement and/or the SAPA, pursuant to Articles 9 and 10 of the Rules of Arbitration of the International Chamber of Commerce.

(d) Nothing in this Section 4.6 shall prevent either Party from seeking provisional, interim, or conservatory remedies from any court of competent jurisdiction before the arbitral tribunal is constituted, or thereafter in appropriate circumstances (**Provisional Remedies**). Any such request for Provisional Remedies shall not be deemed incompatible with the agreement to arbitrate contained in this Section 4.6 or a waiver of the right to arbitrate. The Parties are not entitled to, will not, and waive the right to claim any right of sovereign immunity from suit, jurisdiction, judgment, or attachment (whether before or after judgment) in respect of a request for Provisional Remedies. For the purpose of any Provisional Remedies request, each of the Parties hereto submits to the non-exclusive jurisdiction of any state or federal court sitting in New York, New York, and agrees that all claims in respect of the Provisional Remedies request may be heard and determined in any such court. Each of the Parties hereto waives any defense of inconvenient forum to the maintenance of any Provisional Remedies request and waives any bond, surety or other security that might be required of any other Party with respect thereto. Each Party hereto agrees that service of any process that might be served in any Provisional Remedies request may be made on such Party by sending or delivering a copy of the process to the Party to be served at the address of the Party and in the manner provided for the giving of notices in Section 4.3. Nothing in this Section 4.6, however, shall affect the right of any Party to serve legal process in any other manner permitted by applicable law.

(e) WITHOUT PREJUDICE TO THE SUBMISSION TO ARBITRATION ABOVE, THE PARTIES TO THIS ASSIGNMENT EACH HEREBY WAIVES, TO THE FULLEST EXTENT PERMITTED BY LAW, ANY RIGHT TO TRIAL BY JURY OF ANY CLAIM, DEMAND, ACTION OR CAUSE OF ACTION (I) ARISING UNDER THIS ASSIGNMENT OR (II) IN ANY WAY CONNECTED WITH OR RELATED OR INCIDENTAL TO THE DEALINGS OF THE PARTIES HERETO IN RESPECT OF THIS ASSIGNMENT OR ANY OF THE TRANSACTIONS RELATED HERETO, IN EACH CASE WHETHER NOW EXISTING OR HEREAFTER ARISING, AND WHETHER IN CONTRACT, TORT, EQUITY OR OTHERWISE. THE PARTIES TO THIS ASSIGNMENT EACH HEREBY AGREES AND CONSENTS THAT ANY SUCH CLAIM, DEMAND, ACTION OR CAUSE OF ACTION SHALL BE DECIDED WITHOUT A JURY AND THAT THE PARTIES TO THIS ASSIGNMENT MAY FILE AN ORIGINAL COUNTERPART OF A COPY OF THIS ASSIGNMENT WITH ANY COURT AS WRITTEN EVIDENCE OF THE CONSENT OF THE PARTIES HERETO TO THE WAIVER OF THEIR RIGHT TO TRIAL BY JURY.

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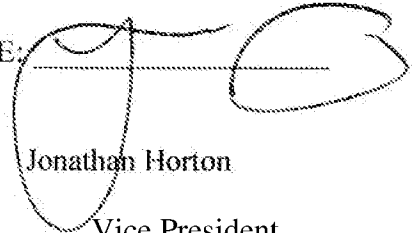
**SIGNATURE**

This Agreement is signed by duly authorised representatives of the parties as of the date first mentioned above:

**SIGNED**  
for and on behalf of  
**FRANK RUSSELL**  
**COMPANY**

)  
)  
)  
)

SIGNATURE:



NAME:

Jonathan Horton

TITLE:

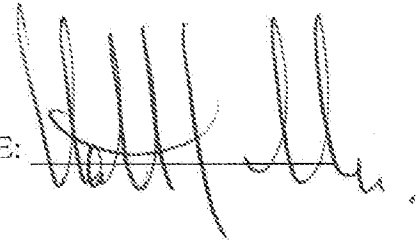
Vice President

*{Signature page to the Intellectual Property Assignment Agreement -- FRC to RIGI}*

**SIGNED**  
for and on behalf of  
**RUSSELL INVESTMENTS**  
**GROUP INC.**

)  
)  
)  
)

SIGNATURE:



NAME:

Matthew C. Moss

TITLE:

Chief Financial Officer

*[Signature page to the Intellectual Property Assignment Agreement – FRC to RIGI]*

**TRADEMARK**  
**REEL: 005807 FRAME: 0104**

## ANNEX A

### Definitions and Interpretation

1. Definitions. In this Assignment, the following words and expressions shall have the meanings set out below:

**Ancillary Agreements** has the meaning set forth in the SAPA.

**Assigned Domain Names** means those Internet domain name registrations listed on Annex D.

**Assigned Intellectual Property** means:

- (a) the Assigned Patents;
- (b) the Assigned Trademarks;
- (c) the Assigned Domain Names; and
- (d) the Assigned Unregistered Intellectual Property.

**Assigned Patents** means those patents and patent applications listed on Annex B, together with:

- (a) rights to all inventions contained in those patents or patent applications; and
- (b) any and all patents or patent applications that claim priority to those patents or patent applications, including continuations, divisions, continuations-in-part, extensions, revisions, reissues, and reexaminations thereof and counterparts thereof in any jurisdiction.

**Assigned Trademarks** means those Trademarks and the registrations and applications therefor listed on Annex C.

**Assigned Unregistered Intellectual Property** means all (i) unregistered Intellectual Property owned by the Assignor that, at any time during the ten (10) years immediately prior to the date of the SAPA, has been used (internally or externally) by the IM Business for Permitted Services and not used (internally or externally) by the Index Business (other than to the extent included in the Excluded Intellectual Property); (ii) unregistered Intellectual Property owned by the Assignor in the Transferred Indexes and the Transferred Software; and (iii) unregistered Intellectual Property owned by the Assignor in the Investment Manager Data and equity fund profiles in the database known as 'RDB'.

**Assumed Liabilities** has the meaning set forth in the SAPA.

**Business Day** has the meaning set forth in the SAPA.

**Business Operational Software** means the Software set forth in Annex G (and related technical information or documentation) that has been created or developed by, or on behalf of, the Assignor or any Transferred Subsidiary.

**Closing** has the meaning set forth in the SAPA.

**Closing Date** has the meaning set forth in the SAPA.

**Corporate Support Software** means the Software set forth in Annex F (and related technical information or documentation) that has been created or developed by, or on behalf of, the Assignor or any Transferred Subsidiary and used in carrying out any of the middle and back office functions described in (ii) of the IM Business definition in the SAPA.

**Excluded Intellectual Property** has the meaning set forth in the SAPA.

**IM Business** has the meaning set forth in the SAPA.

**Index Business** has the meaning set forth in the SAPA.

**Indexes** has the meaning set forth in the SAPA.

**Intellectual Property** has the meaning set forth in the SAPA.

**Investment Manager Data** means the investment manager data in the database known as ‘RDB’ of all managers associated with the Assignor and its Transferred Subsidiaries that is owned or otherwise licensable by the Purchaser or any Transferred Subsidiary at the Closing Date, including any such data in any of the following: holdings, returns, published and non-published performance and profile universes, all universe-level statistics generated on those universes, and fundamental characteristics (both security-level and aggregate).

**Operational Software** means (i) the Corporate Support Software (ii) the Business Operational Software and (iii) the Software (and related technical information or documentation) created or developed by, or on behalf of, the Assignor or any Transferred Subsidiary in the Roadmap risk analysis tool.

**Permitted Services** has the meaning set forth in the SAPA.

**Proceeding** has the meaning set forth in the SAPA.

**Software** has the meaning set forth in the SAPA.

**Trademarks** has the meaning set forth in the SAPA.

**Transferred Indexes** means the “Barclays-Russell LDI” series of Indexes.

**Transferred Software** means

(i) the Software (and related technical information or documentation): (A) created or developed by, or on behalf of, the Assignor prior to the date of the SAPA that, at any time during the two (2) years immediately prior to the date of the SAPA has been used, or (B) under development by, or on behalf of, the Assignor as at the date of the SAPA or between the date of the SAPA and Closing and which is used between the date of the SAPA and Closing (or intended to be used),

in each case, by, or on behalf of, the IM Business and not by, or on behalf of, the Index Business (other than to the extent included in the Excluded Intellectual Property), and including the Software which is set forth in Annex L; and

(ii) the Operational Software.

**Transferred Subsidiary** has the meaning set forth in the SAPA.



**ANNEX B**  
**Assigned Patents**

Owner	Jurisdiction	Title	Ser. & Pat. No.	Filing Date
Frank Russell Company	United States	METHOD AND SYSTEM FOR IMPLEMENTING AN ADAPTIVE INVESTING METHODOLOGY	U.S. Patent App./Serial No. 13/250,426 Issued as U.S. Patent No. 8,671,045	30-Sep-11
Frank Russell Company	United States	METHOD OF CREATING AND MAINTAINING MULTI-MANAGER EXCHANGE TRADED FUNDS	U.S. Patent App./Serial No. 13/564,060 Published as U.S. Patent Publication No. 2013-0080352	1-Aug-12
Frank Russell Company	New Zealand	METHOD OF CREATING AND MAINTAINING MULTI-MANAGER EXCHANGE TRADED FUNDS	Application number: 622261 Nationalization of PCT. App./Serial No. PCT/US2012/056148 Published as WO 2013043748	19-Sep-12
Frank Russell Company	Australia	METHOD OF CREATING AND MAINTAINING MULTI-MANAGER EXCHANGE TRADED FUNDS	Patent App./Serial No. 2012312455 Nationalization of PCT. App./Serial No. PCT/US2012/056148 Published as WO 2013043748	19-Sep-12
Frank Russell Company	Canada	METHOD OF CREATING AND MAINTAINING MULTI-MANAGER EXCHANGE TRADED FUNDS	Patent App./Serial No. 2849090 Nationalization of PCT. App./Serial No. PCT/US2012/056148 Published as WO 2013043748	19-Sep-12
Frank Russell Company	Japan	METHOD OF CREATING AND MAINTAINING MULTI-MANAGER EXCHANGE TRADED FUNDS	Patent App./Serial No. 2014-531933 Patent Publication No. 2014-526761 Nationalization of PCT. App./Serial No. PCT/US2012/056148 Published as WO 2013043748	19-Sep-12

Frank Russell Company	Korea	METHOD OF CREATING AND MAINTAINING MULTI-MANAGER EXCHANGE TRADED FUNDS	Patent App./Serial No. 10-2014-7010123 Nationalization of PCT. App./Serial No. PCT/US2012/056148 Published as WO 2013043748	19-Sep-12
Frank Russell Company	Singapore	METHOD OF CREATING AND MAINTAINING MULTI-MANAGER EXCHANGE TRADED FUNDS	Patent App./Serial No. 11201400784Y Nationalization of PCT. App./Serial No. PCT/US2012/056148 Published as WO 2013043748	19-Sep-12
Frank Russell Company	United States	RETIREMENT PLANNING METHOD	U.S. Patent App./Serial No. 14/074,393 Published as U.S. Patent Publication No. 2014-0143175	7-Nov-13
Frank Russell Company	United States	METHOD OF EVALUATING THE PERFORMANCE OF A FAMILY OF TARGET DATE FUNDS	U.S. Patent App./Serial No. 12/102,640 Issued as U.S. Patent No. 8,548,887	14-Apr-08

## ANNEX C

## Assigned Trademarks

Mark	Owner	Jurisdiction	Reg. No.	Reg. Date
ADAPTIVE INVESTING	Frank Russell Company	New Zealand	App no. 999312	Registration Pending
AGENCY FX	Frank Russell Company	Australia	1688562	05-Aug-2015
AGENCY FX	Frank Russell Company	Canada	App no. 1724600	Registration Pending
AGENCY FX	Frank Russell Company	European Union	13971643	02-Oct-2015
AGENCY FX	Frank Russell Company	U.S.	App. no. 86/430,210	Registration Pending
DC DIRECTIONS	Frank Russell Company	U.S.	4158778	12-Jun-12
FUND NAVIGATOR	Frank Russell Company	Australia	1696677	15-Jan-2016
FUND NAVIGATOR	Frank Russell Company	New Zealand	App. No. 1024914	Registration Pending
INNOVATE EVERY DAY	Frank Russell Company	U.S.	3959178	10-May-11
CORNERSTONE MANAGED ACCOUNTS: A PRIVATE WEALTH MULTI-MANAGER	Frank Russell Company	Canada	TMA614557	9-Jul-04
DON'T JUST PRESERVE YOUR WEALTH, MANAGE IT.	Frank Russell Company	Canada	TMA617249	20-Aug-04
Don't Retire From Investing. Invest for Retirement.	Frank Russell Company	Canada	TMA805,461	29-Aug-11
Essentials * Lifestyle * Estate	Frank Russell Company	Canada	TMA745931	21-Aug-09
INVESTIR À UN NIVEAU SUPÉRIEUR	Frank Russell Company	Canada	TMA655941	3-Jan-06
LA COMPLEXITÉ SIMPLIFIÉE	Frank Russell Company	Canada	TMA643326	29-Jun-05
PROGRAMME D'INVESTISSEMENT SOUVERAIN	Frank Russell Company	Canada	TMA655172	15-Dec-05
SOPHISTICATED MADE SIMPLE	Frank Russell Company	Canada	TMA613704	28-Jun-04
SOVERAIN	Frank Russell Company	Canada	TMA643944	8-Jul-05
SOVEREIGN	Frank Russell Company	Canada	TMA630057	12-Jan-05
SOVEREIGN INVESTMENT PROGRAM	Frank Russell Company	Canada	TMA4426690	29-Apr-94
THE NEXT LEVEL OF INVESTING	Frank Russell Company	Canada	TMA597239	11-Dec-03
TAKUMI NO WA (Hiragana and Kanji characters)	Frank Russell Company	Japan	5053698	8-Jun-07
<b>匠の輪</b>				

ワールド・エキスパート (WORLD EXPERT in Katakana)	Frank Russell Company	Japan	5053699	8-Jun-07
ONE FUND	Frank Russell Company	U.S.	3702622	27-Oct-09
Open World	Frank Russell Company	U.S.	4029056	20-Sep-11
Open World	Frank Russell Company	Australia	1239512	22-Sep-08
Open World	Frank Russell Company	European Union	6473706	19-Nov-08
Open World	Frank Russell Company	Japan	5238671	12-Jun-09
Open World	Frank Russell Company	New Zealand	788972	13-Nov-08
Open World	Frank Russell Company	Switzerland	5740530	16-Jul-08
Open World	Frank Russell Company	Norway	247080	6-Aug-08
LIFEPOINTS	Frank Russell Company	U.S.	3854008	28-Sep-10
LIFEPOINTS	Frank Russell Company	U.S.	2014267	5-Nov-96
LIFEPOINTS	Frank Russell Company	U.S.	2012499	29-Oct-96
LIFEPOINTS	Frank Russell Company	U.S.	2016210	12-Nov-96
LifePoints CONNECT	Frank Russell Company	U.S.	4053724	8-Nov-11
MULTI ASSET MULTI STYLE MULTI MANAGER	Frank Russell Company	U.S.	2866949	27-Jul-04
MULTI ASSET MULTI STYLE MULTI MANAGER	Frank Russell Company	U.S.	2574342	28-May-02
LIFEPOINTS	Frank Russell Company	Australia	647885	29-Mar-96
MULTI ASSET MULTI STYLE MULTI MANAGER	Frank Russell Company	Australia	747040	27-Aug-99
LIFEPOINTS	Frank Russell Company	Canada	TMAA497742	24-Jul-98
LifePoints CONNECT	Frank Russell Company	Canada	TMAA826367	15-Jun-12
MULTI ASSET MULTI STYLE MULTI MANAGER	Frank Russell Company	Canada	TMAA676126	2-Nov-06
MULTI STRATEGY MULTIMANAGER	Frank Russell Company	Italy	1213977	24-Sep-09
ライフポイント LIFEPOINT in Katakana	Frank Russell Company	Japan	4462297	23-Mar-01
LIFEPOINTS	Frank Russell Company	Japan	4476607	25-May-01
MULTI ASSET MULTI STYLE MULTI MANAGER	Frank Russell Company	Japan	4288123	25-Jun-99
LIFEPOINTS	Frank Russell Company	New Zealand	244494	10-Dec-96

LIFEPPOINTS	Frank Russell Company	New Zealand	244495	10-Dec-96
LIFEPPOINTS	Frank Russell Company	New Zealand	244496	10-Dec-96
MULTI ASSET MULTI STYLE MULTI MANAGER	Frank Russell Company	New Zealand	290125	18-Nov-98
MULTI ASSET MULTI STYLE MULTI MANAGER	Frank Russell Company	New Zealand	290126	18-Nov-98
MULTI ASSET MULTI STYLE MULTI MANAGER	Frank Russell Company	Singapore	T99/02773C	30-Jan-01
MULTI ASSET MULTI STYLE MULTI MANAGER	Frank Russell Company	Singapore	T99/02772E	19-May-00
MULTI ASSET MULTI STYLE MULTI MANAGER	Frank Russell Company	South Africa	98/04841	3-Dec-01
MULTI ASSET MULTI STYLE MULTI MANAGER	Frank Russell Company	South Africa	98/04842	4-Apr-02
MULTI ASSET MULTI STYLE MULTI MANAGER	Frank Russell Company	Switzerland	465298	27-Sep-99
MULTI ASSET MULTI STYLE MULTI MANAGER	Frank Russell Company	Switzerland	465297	27-Sep-99
MULTI STYLES MULTI GERANTS	Frank Russell Company	France	3048117	26-Jan-01
LIFEPPOINTS	Frank Russell Company	United Kingdom	2013536	24-Nov-95
CONVERSATION [YIELDS] INNOVATION	Frank Russell Company	U.S.	4053590	8-Nov-11
IMPROVING FINANCIAL SECURITY FOR PEOPLE	Frank Russell Company	U.S.	2416215	26-Dec-00
INVESTED. TOGETHER.	Frank Russell Company	Australia	1610725	11-Jun-14
INVESTED. TOGETHER.	Frank Russell Company	Canada	App. no. 1668128	Registration pending
INVESTED. TOGETHER.	Frank Russell Company	U.S.	4,733,935	12-May-15
INVESTED. TOGETHER.	Frank Russell Company	United Kingdom	App. no. 31116424	Registration pending
INVEST TOGETHER	Frank Russell Company	U.S.	4,288,385	12-Feb-13
ONE FUND AND YOU'RE DONE	Frank Russell Company	U.S.	3938960	29-Mar-11

**ANNEX D**  
**Assigned Domain Names**

Domain Name	Reg. Profile	Paid Through Date	TLD	If relevant, website to which domain redirects	Comments (if any)
lbondfund.com	Frank Russell Company	2017-07-13	.com	no redirect	Redirect to "www.russellefts.com" has been removed.
lfund.com	Frank Russell Company	2017-10-24	.com	Not used. No IP address resolution.	
lfund.mobi	Frank Russell Company	2017-07-07	.mobi	no redirect	Redirect to "www.russellefts.com" has been removed.
lfundef.com	Frank Russell Company	2017-05-18	.com	no redirect	Redirect to "www.russellefts.com" has been removed.
lfundetfs.com	Frank Russell Company	2017-05-18	.com	no redirect	Redirect to "www.russellefts.com" has been removed.
advisorquiz.com	Frank Russell Company	2017-08-14	.com	<a href="http://russellinvestments.com/us/financial-professionals/hrtdi/#/">http://russellinvestments.com/us/financial-professionals/hrtdi/#/</a>	

Domain Name	Reg. Profile	Paid Through Date	TLD	If relevant, website to which domain redirects	Comments (if any)
buyandholdforever.com	Frank Russell Company	2017-03-13	.com	no redirect	Redirect to "www.russellefts.com" has been removed.
nostockpicking.com	Frank Russell Company	2017-06-17	.com	no redirect	Redirect to "www.russellefts.com" has been removed.
onebondfund.com	Frank Russell Company	2017-07-13	.com	no redirect	Redirect to "www.russellefts.com" has been removed.
onefund.com	Frank Russell Company	2017-05-03	.com	no redirect	Redirect to "www.russellefts.com" has been removed.
onefund.mobi	Frank Russell Company	2017-07-07	.mobi	no redirect	Redirect to "www.russellefts.com" has been removed.
onefundetf.com	Frank Russell Company	2017-05-18	.com	no redirect	Redirect to "http://www.onefundetf.com/" has been removed.
onefundetfs.com	Frank Russell Company	2017-05-18	.com	no redirect	Redirect to "www.russellefts.com" has been removed.
the1fund.com	Frank Russell Company	2017-02-24	.com	no redirect	Redirect to "www.russellefts.com" has been removed.

Domain Name	Reg. Profile	Paid Through Date	TLD	If relevant, website to which domain redirects	Comments (if any)
us1.com	Frank Russell Company	2017-05-21	.com	no redirect	Redirect to "www.russellefts.com" has been removed.
us1.mobi	Frank Russell Company	2017-09-26	.mobi	no redirect	Redirect to "www.russellefts.com" has been removed.
us1capital.com	Frank Russell Company	2017-03-21	.com	no redirect	Redirect to "www.russellefts.com" has been removed.
betterworldfunds.com	Frank Russell Company	2016-07-01	.com	no redirect	
buildpreserverextend.com	Frank Russell Company	2017-10-03	.com	no redirect	
buildpreserverextend.info	Frank Russell Company	2017-10-03	.info	no redirect	
buildpreserverextend.net	Frank Russell Company	2017-10-03	.net	no redirect	
buildpreserverextend.org	Frank Russell Company	2017-10-03	.org	no redirect	
coalitionforamericanfinanci alsecurity.com	Frank Russell Company	2016-12-01	.com	no redirect	
coalitionforamericanfinanci alsecurity.org	Frank Russell Company	2016-12-01	.org	no redirect	
coffeemath.com	Frank Russell Company	2017-09-22	.com	no redirect	



Domain Name	Reg. Profile	Paid Through Date	TLD	If relevant, website to which domain redirects	Comments (if any)
coffeemath.info	Frank Russell Company	2017-09-22	.info	no redirect	
coffeemath.net	Frank Russell Company	2017-09-22	.net	no redirect	
coffeemath.org	Frank Russell Company	2017-09-22	.org	no redirect	
deinsights.com	Frank Russell Company	2016-08-24	.com	no redirect	
definedcontribution.com	Frank Russell Company	2018-06-15	.com	no redirect	
engageinvestors.com	Frank Russell Company	2017-07-08	.com	no redirect	
engaginginvestors.com	Frank Russell Company	2017-07-08	.com	no redirect	
flexitization.com	Frank Russell Company	2017-02-17	.com	no redirect	
flexitrust.com	Frank Russell Company	2017-07-26	.com	no redirect	
flexitrust.net	Frank Russell Company	2017-07-26	.net	no redirect	
flexitrust.org	Frank Russell Company	2017-07-26	.org	no redirect	
focus-on-retirement-income.biz	Frank Russell Company	2017-08-06	.biz	no redirect	
focus-on-retirement-income.com	Frank Russell Company	2017-08-07	.com	no redirect	
focus-on-retirement-income.info	Frank Russell Company	2017-08-07	.info	no redirect	

Domain Name	Reg. Profile	Paid Through Date	TLD	If relevant, website to which domain redirects	Comments (if any)
focus-on-retirement-income.net	Frank Russell Company	2017-08-07	.net	no redirect	
focus-on-retirement-income.org	Frank Russell Company	2017-08-07	.org	no redirect	
focusonretirementincome.biz	Frank Russell Company	2017-08-06	.biz	no redirect	
focusonretirementincome.com	Frank Russell Company	2017-08-07	.com	no redirect	
focusonretirementincome.info	Frank Russell Company	2017-08-07	.info	no redirect	
focusonretirementincome.net	Frank Russell Company	2017-08-07	.net	no redirect	
focusonretirementincome.org	Frank Russell Company	2017-08-07	.org	no redirect	
fouradviceconversations.com	Frank Russell Company	2017-05-10	.com	no redirect	
fouradviceconversations.info	Frank Russell Company	2017-05-10	.info	no redirect	
fouradviceconversations.net	Frank Russell Company	2017-05-10	.net	no redirect	
fouradviceconversations.org	Frank Russell Company	2017-05-10	.org	no redirect	
helping-investors.com	Frank Russell Company	2017-03-06	.com	no redirect	
helping-investors.net	Frank Russell Company	2017-03-06	.net	no redirect	
helping-investors.org	Frank Russell Company	2017-03-06	.org	no redirect	

Domain Name	Reg. Profile	Paid Through Date	TLD	If relevant, website to which domain redirects	Comments (if any)
helpingtheworldsave.com	Frank Russell Company	2017-04-24	.com	no redirect	
improvingfinancialsecurity.org	Frank Russell Company	2016-11-18	.org	no redirect	
intelligentdecumulation.com	Frank Russell Company	2017-08-21	.com	no redirect	
intelligentlyinvested.com	Frank Russell Company	2016-10-24	.com	no redirect	
investedoutcomes.com	Frank Russell Company	2016-09-18	.com	no redirect	
investingforoutcomes.com	Frank Russell Company	2016-09-18	.com	no redirect	
investmentadvisorashboard.com	Frank Russell Company	2016-12-29	.com	no redirect	
investmentdisciplineportfolio.com	Frank Russell Company	2017-04-20	.com	no redirect	
investmentdisciplineportfolios.com	Frank Russell Company	2017-04-20	.com	no redirect	
investpreservereextend.com	Frank Russell Company	2017-09-30	.com	no redirect	
investpreservereextend.info	Frank Russell Company	2017-09-30	.info	no redirect	
investpreservereextend.net	Frank Russell Company	2017-09-30	.net	no redirect	
investpreservereextend.org	Frank Russell Company	2017-09-30	.org	no redirect	
investprotectextend.com	Frank Russell Company	2017-09-05	.com	no redirect	

Domain Name	Reg. Profile	Paid Through Date	TLD	If relevant, website to which domain redirects	Comments (if any)
investprotectextend.info	Frank Russell Company	2017-09-05	.info	no redirect	
investprotectextend.net	Frank Russell Company	2017-09-05	.net	no redirect	
investprotectextend.org	Frank Russell Company	2017-09-05	.org	no redirect	
learn-about-retirement-income.biz	Frank Russell Company	2017-08-06	.biz	no redirect	
learn-about-retirement-income.com	Frank Russell Company	2017-08-07	.com	no redirect	
learn-about-retirement-income.info	Frank Russell Company	2017-08-07	.info	no redirect	
learn-about-retirement-income.net	Frank Russell Company	2017-08-07	.net	no redirect	
learn-about-retirement-income.org	Frank Russell Company	2017-08-07	.org	no redirect	
learnaboutretirementincom.e.biz	Frank Russell Company	2017-08-06	.biz	no redirect	
learnaboutretirementincom.e.com	Frank Russell Company	2017-08-07	.com	no redirect	
learnaboutretirementincom.e.info	Frank Russell Company	2017-08-07	.info	no redirect	
learnaboutretirementincom.e.net	Frank Russell Company	2017-08-07	.net	no redirect	
learnaboutretirementincom.e.org	Frank Russell Company	2017-08-07	.org	no redirect	

Domain Name	Reg. Profile	Paid Through Date	TLD	If relevant, website to which domain redirects	Comments (if any)
lifepoints.com	Frank Russell Company	2018-06-15	.com	https://russellinvestments.com/us/solutions/financial-professionals/lifepoints	
lifepointsfunds.com	Frank Russell Company	2016-12-21	.com	no redirect	
lifepointsportfolios.com	Frank Russell Company	2016-12-21	.com	no redirect	
m-cube.biz	Frank Russell Company	2017-04-03	.biz	no redirect	
managedportfolioink.com	Frank Russell Company	2017-08-30	.com	no redirect	
managedportfolioink.net	Frank Russell Company	2017-08-30	.net	no redirect	
managedportfolioink.org	Frank Russell Company	2017-08-30	.org	no redirect	
managerofmanagers.net	Frank Russell Company	2016-11-08	.net	no redirect	
managerofmanagers.org	Frank Russell Company	2016-11-08	.org	no redirect	
martrairtfinancierementsaine.com	Frank Russell Company	2018-02-25	.com	no redirect	Redirect to "http://www.russell.com/ca/default.aspx" has been removed.
marketrecoverydashboard.com	Frank Russell Company	2016-12-29	.com	no redirect	

Domain Name	Reg. Profile	Paid Through Date	TLD	If relevant, website to which domain redirects	Comments (if any)
multi-asset-multi-style-multi-manager.biz	Frank Russell Company	2017-04-03	.biz	no redirect	
multi-manager.biz	Frank Russell Company	2017-04-03	.biz	no redirect	
multi-manager.org	Frank Russell Company	2017-02-17	.org	no redirect	
multi-managers.com	Frank Russell Company	2017-02-17	.com	no redirect	
multi-managers.net	Frank Russell Company	2017-02-17	.net	no redirect	
multi-managers.org	Frank Russell Company	2017-02-17	.org	no redirect	
multimanager.org	Frank Russell Company	2017-02-17	.org	no redirect	
multimanagers.com	Frank Russell Company	2017-02-17	.com	no redirect	
multimanagers.net	Frank Russell Company	2017-02-17	.net	no redirect	
multimanagers.org	Frank Russell Company	2017-02-17	.org	no redirect	
openworldinvest.com	Frank Russell Company	2016-06-29	.com	no redirect	
openworldinvesting.co.za	Frank Russell Company	2016-12-21	.co.za	no redirect	
openworldinvesting.tw	Frank Russell Company	2016-08-19	.tw	no redirect	
openworldinvestment.com	Frank Russell Company	2016-06-29	.com	no redirect	

Domain Name	Reg. Profile	Paid Through Date	TLD	If relevant, website to which domain redirects	Comments (if any)
rebalatisation.com	Frank Russell Company	2017-02-17	.com	no redirect	
rebalatization.com	Frank Russell Company	2017-02-17	.com	no redirect	
retirement-fortress.biz	Frank Russell Company	2017-08-13	.biz	no redirect	
retirement-fortress.com	Frank Russell Company	2016-08-14	.com	no redirect	
retirement-fortress.info	Frank Russell Company	2017-08-14	.info	no redirect	
retirement-fortress.net	Frank Russell Company	2017-08-14	.net	no redirect	
retirement-fortress.org	Frank Russell Company	2017-08-14	.org	no redirect	
retirement-tready.com	Frank Russell Company	2016-09-29	.com	no redirect	
retirementlifestyleplan.com	Frank Russell Company	2017-09-08	.com	no redirect	
retirementlifestyleolutions.com	Frank Russell Company	2017-09-08	.com	no redirect	
sovereign-investment-program.biz	Frank Russell Company	2017-04-03	.biz	no redirect	
targetdataratings.com	Frank Russell Company	2017-08-06	.com	no redirect	
taxmanagedinvesting.com	Frank Russell Company	2017-08-29	.com	no redirect	
taxmanagedinvesting.info	Frank Russell Company	2017-08-29	.info	no redirect	

Domain Name	Reg. Profile	Paid Through Date	TLD	If relevant, website to which domain redirects	Comments (if any)
taxmanagedinvesting.net	Frank Russell Company	2017-08-29	.net	no redirect	
taxmanagedinvesting.org	Frank Russell Company	2017-08-29	.org	no redirect	
the-manager-of-managers.biz	Frank Russell Company	2017-04-03	.biz	no redirect	
the-retirement-income-resource.biz	Frank Russell Company	2017-08-06	.biz	no redirect	
the-retirement-income-resource.com	Frank Russell Company	2017-08-07	.com	no redirect	
the-retirement-income-resource.info	Frank Russell Company	2017-08-07	.info	no redirect	
the-retirement-income-resource.net	Frank Russell Company	2017-08-07	.net	no redirect	
the-retirement-income-resource.org	Frank Russell Company	2017-08-07	.org	no redirect	
themanagerofmanagers.com	Frank Russell Company	2016-11-08	.com	no redirect	
themanagerofmanagers.net	Frank Russell Company	2016-11-08	.net	no redirect	
themanagerofmanagers.org	Frank Russell Company	2016-11-08	.org	no redirect	
theretirementincomeresource.biz	Frank Russell Company	2017-08-06	.biz	no redirect	
theretirementincomeresource.com	Frank Russell Company	2017-08-07	.com	no redirect	
theretirementincomeresource.info	Frank Russell Company	2017-08-07	.info	no redirect	



Domain Name	Reg. Profile	Paid Through Date	TLD	If relevant, website to which domain redirects	Comments (if any)
theretirementincomeresour ce.net	Frank Russell Company	2017-08-07	.net	no redirect	
theretirementincomeresour ce.org	Frank Russell Company	2017-08-07	.org	no redirect	
tstandard.biz	Frank Russell Company	2016-06-26	.biz	no redirect	
tstandard.com	Frank Russell Company	2018-02-15	.com	no redirect	
tstandard.net	Frank Russell Company	2016-06-27	.net	no redirect	
tstandard.org	Frank Russell Company	2016-06-27	.org	no redirect	
us1bank.com	Frank Russell Company	2017-04-15	.com	no redirect	
us1fund.com	Frank Russell Company	2017-03-12	.com	no redirect	
us1funds.com	Frank Russell Company	2017-03-13	.com	no redirect	
us1portfolio.com	Frank Russell Company	2017-05-24	.com	no redirect	
us1trust.com	Frank Russell Company	2017-06-11	.com	no redirect	
usone.com	Frank Russell Company	2017-09-12	.com	no redirect	
usone.mobi	Frank Russell Company	2015-11-01	.mobi	no redirect	
usonecapital.com	Frank Russell Company	2017-03-05	.com	no redirect	

Domain Name	Reg. Profile	Paid Through Date	TLD	If relevant, website to which domain redirects	Comments (if any)
usonefinancial.com	Frank Russell Company	2017-03-05	.com	no redirect	
usonefund.com	Frank Russell Company	2018-03-03	.com	no redirect	
usonefunds.com	Frank Russell Company	2017-03-13	.com	no redirect	
usoneportfolio.com	Frank Russell Company	2017-05-24	.com	no redirect	
usonetrust.com	Frank Russell Company	2017-06-11	.com	no redirect	
we-stand-with-investors.com	Frank Russell Company	2016-10-03	.com	no redirect	
westandwithinvestors.com	Frank Russell Company	2016-10-03	.com	no redirect	
whatbiginvestorsdo.com	Frank Russell Company	2016-11-29	.com	no redirect	
worldshares.com	Frank Russell Company	2018-06-17	.com	no redirect	
openworldinvesting.in	Frank Russell Company	2016-08-19	.in	no redirect	
openworldinvesting.sg	Frank Russell Company	2016-08-20	.sg	no redirect	
dontretirefrominvesting.com	Frank Russell Company	2018-02-13	.com	no redirect	Redirect to <a href="http://russellink.ca/Retirement/">http://russellink.ca/Retirement/</a> has been removed.

Domain Name	Reg. Profile	Paid Through Date	TLD	If relevant, website to which domain redirects	Comments (if any)
helping-advisors.com	Frank Russell Company	2018-03-06	.com	https://russellinvestments.com/uk/solutions/financial-advisers	
helping-advisors.com	Frank Russell Company	2018-03-06	.com	http://russellinvestments.com/helping-advisors/Default.aspx	Redirect works externally only.
helpingadvisers.com	Frank Russell Company	2018-03-06	.com	https://russellinvestments.com/uk/solutions/financial-advisers	Redirect works externally only.
helpingadvisors.com	Frank Russell Company	2017-02-04	.com	http://russellinvestments.com/helping-advisors/Default.aspx	Redirect works externally only.
investissezpourlaretraite.com	Frank Russell Company	2018-02-13	.com	no redirect	Redirect to "http://russelllink-russell.com/Public/LifePointSConnect/Login.aspx?ReturnUrl=%2FlifePointSconnect%2FDefault.aspx" has been removed.

Domain Name	Reg. Profile	Paid Through Date	TLD	If relevant, website to which domain redirects	Comments (if any)
lifeconnect.com	Frank Russell Company	2017-03-16	.com	<a href="https://russellink.russell.com/Public/LifePointsConnect/Login.aspx?ReturnUrl=%2Fifepointsconnect%2Fdefault.aspx">https://russellink.russell.com/Public/LifePointsConnect/Login.aspx?ReturnUrl=%2Fifepointsconnect%2Fdefault.aspx</a>	Migration of extranet sites to be completed by the end of 2016. Please see Annex H, Section 2(b) of the IPLA.
mainstreetotwallstreet.com	Frank Russell Company	2017-09-23	.com	no redirect	Redirect to "http://www.russell.com/ca/default.aspx" is inoperable.
myfinancialhealthretirement.com	Frank Russell Company	2017-01-27	.com	no redirect	Redirect to <a href="http://www.russell.com/ca/default.aspx">http://www.russell.com/ca/default.aspx</a> has been removed.
myfinanciallyhealthretirement.com	Frank Russell Company	2018-02-25	.com	no redirect	Redirect to <a href="http://www.russell.com/ca/default.aspx">http://www.russell.com/ca/default.aspx</a> has been removed.
openworldinvesting.com	Frank Russell Company	2016-10-11	.com	<a href="http://www.openworldinvesting.com/">http://www.openworldinvesting.com/</a>	
openworldinvestments.com	Frank Russell Company	2016-10-11	.com	<a href="http://www.openworldinvestments.com/">http://www.openworldinvestments.com/</a>	
retirementlifestyleplanner.com	Frank Russell Company	2017-09-07	.com	<a href="https://russellink.russell.com/Login.aspx?ReturnUrl=%2FComponents%2FFEATURES%2FAuthDisclaimer%2FLayout%2FRussellinkUS%2FPCS%2faspx%2FPCS_Redirect.aspx">https://russellink.russell.com/Login.aspx?ReturnUrl=%2FComponents%2FFEATURES%2FAuthDisclaimer%2FLayout%2FRussellinkUS%2FPCS%2faspx%2FPCS_Redirect.aspx</a>	Migration of extranet sites to be completed by the end of 2016. Please see Annex H, Section 2(b) of the IPLA.

Domain Name	Reg. Profile	Paid Through Date	TLD	If relevant, website to which domain redirects	Comments (if any)
tstandard.us	Frank Russell Company	2016-06-26	.us	no redirect	
openworldinvesting.com.br	MarkMonitor Local Presence	2016-08-19	.com.br	www.openworldinvesting.com.br	BR registry is not configured. Therefore, this link does not resolve.
conversationsyieldsinnovati on.com	Frank Russell Company	2017-01-14	.com	http://www.russell.com/us/res earch/default.aspx	Migration of extranet sites to be completed by the end of 2016. Please see Annex H, Section 2(b) of the IPLA.
conversationsyieldsinnovati ons.com	Frank Russell Company	2017-01-14	.com	http://www.russell.com/us/res earch/default.aspx	Migration of extranet sites to be completed by the end of 2016. Please see Annex H, Section 2(b) of the IPLA.
conversationsyieldsinnovati on.com	Frank Russell Company	2017-01-02	.com	http://www.russell.com/us/res earch/default.aspx	Migration of extranet sites to be completed by the end of 2016. Please see Annex H, Section 2(b) of the IPLA.

Domain Name	Reg. Profile	Paid Through Date	TLD	If relevant, website to which domain redirects	Comments (if any)
conversations.yieldsimmovations.com	Frank Russell Company	2017-01-14	.com	<a href="http://www.russell.com/us/research/default.aspx">http://www.russell.com/us/research/default.aspx</a>	Migration of extranet sites to be completed by the end of 2016. Please see Annex H, Section 2(b) of the IPLA.
openworldinvesting.ae	Frank Russell Company	2016-08-19	.ae	no redirect	
openworldinvesting.co.uk	Frank Russell Company	2018-01-24	.co.uk	<a href="http://www.openworldinvesting.co.uk/">http://www.openworldinvesting.co.uk/</a>	
openworldinvestments.co.uk	Frank Russell Company	2018-01-24	.co.uk	<a href="http://www.openworldinvestments.co.uk/">http://www.openworldinvestments.co.uk/</a>	

ANNEX E  
Transferred Software

Application Name	Business Description
13 F Reporting (SSRS)	Same database as ABRS (on Tacapp78) - autofeed from PACE - published as a SharePoint list - access required for tacapp78 (via AD group)
ABRS (Net 4.0)	Same database as 13F (on Tacapp78) - autofeed from PACE - published as a SharePoint list - access required for tacapp78 (via AD group)
Accounting Report	The Accounting Reports ADCI pushes State Street Performance Reports and Accounting Statements to Panagon which is then consumed by ClientLINK (webdocs, via slurpee job). This uses a Web service to communicate with the RAICIR Database to pull out the RCODA number based on the Organization Name and Investment Account.
ACME	This is a RIS application for the TM business line to manage programs; portfolios and broker costs.
ACME.NET (10.1.3)	RIS TM Application to access and update main ACME tables.
Active Bets	Shows the variation in weight of the manager's equity holdings over time. The report is color coded to show buys; sells; trims; and adds.
ActiveBets_using_FS	Downloads ActiveBets for a portfolio against a benchmark from FactSet
Adam Goff Equity Tool	NULL
Advent Request Handler	Integrated part of Advent APX. Processes data load requests.
Age of Rank	Shows distribution of time since the last rank change for active products by team and current rank. Allows drilling to product level detail.
Aggregation Services	Aggregation Service is a web based app used to retrieve data from ManagerSite and FundSite. Aggregation Services website is deployed on the same web server where both Fundsite and Managersite websites are deployed.
AI DOL	NULL
AI Performance Reports	NULL
AI Reporting Database	AI reporting
AIM Integration Tools	Manage accounts and deliver trades for all activity on Bloomberg AIM.
Attributions Tool	Attributions: These are used to assess the performance of the funds with respect to country/sector/stock allocation and selection. The macro is a simple sorting tool for creating the summary tab report.
Aurora	Market data DB
Australian Equity Profile	NULL
Australia Extranet	Implementation of Australia's extranet environment serving the Institutional; Retail and Superannuation businesses under a shared name of RussellLINK. This includes migrating both AU's RussellLINK and ClientLink presences from the ASP architecture to the .NET.

Australian Fixed Interest Profile (AFIP)	NULL
Auto FTP	Allows the business to automate the FTP process.
Average Alpha by Rank	Shows the average arithmetic and compound excess returns for the most recent quarter for all active products by rank.
Average Alpha History by Rank	Shows number of products; absolute returns; benchmark returns; and excess returns for all active products within user selected GRID constraints over 1-qr; 1-yr; 3-yr; 5-yr; and 10-yr annualized periods.
Balanced Fund Report	Shows AUM; 1-Year; 3-Year; 5-Year; and Inception to Date Annualized Returns for each of the balanced funds.
Banshee	NULL
BBH Import Service	Imports BBH flat files into the BBH Accounting database.
Benchmarks Used in Hire List Metrics	This report should be referenced before turning off the feed for any benchmark in the RDB. Benchmarks on this report cannot be removed from the RDB without compromising the integrity of historical Hire List reports.
Bet Monitor	Bet Monitor: The bet monitor tracks the EM Funds country/Sector bets over last 12 months with respect to the relevant benchmark.
Bid Matrix	Collects data for doing analysis of fixed income trades and dealers.
Bloomberg Back Office	Process to download Bloomberg Back Office files.
BP-Net	NULL
Buy and Hold Tool (Win7)	This macro downloads a research universe's finalized portfolios from RDB at a point in time and allows the user to simulate a Buy/Hold strategy using FactSet pricing. It ignores derivatives; but includes cash.
Buy and Hold Tool (XP)	This macro downloads a research universe's finalized portfolios from RDB at a point in time and allows the user to simulate a Buy/Hold strategy using FactSet pricing. It ignores derivatives; but includes cash.
CAS_CR.mdb	Access application for the CR team to manage CR data within CAS.
CAS_Special_Rates.mdb	Access application for managing rates within CAS for the CR team.
Cash Allocation Trading System (CATS) and PA Tools	Cash Allocation Trading System (CATS)
Cash Collateral Management	Manages Futures and FX collateral.
CashFlow	CashFlow is used by GTO for taking all client CashFlow notifications and automatically plugging them into other applications such as CATS.
CATS Administration	CATS Admin is used by GTO for making updates to the CATS Application.



Central Clearing	Creates and tracks files sent to Pershing for centrally cleared trades.
Client Details	Provides OS client setup information to other RIS groups.
Client Engagement Road Map	This application assists advisors in maintaining focus on each of their clients; and their unique goals and circumstances. Visibly illustrates the value advisors provide to their clients.
ClientLink - US	The ClientLink site is a replacement for the Freedom portal. This new framework will utilize the Teamsite platform for content management and will facilitate the delivery of more timely and effective web capability. <a href="http://clientlink.russell.com/">http://clientlink.russell.com/</a> Plan sponsors; endowment and foundation representatives; and other institutional investors are provided with crucial Russell investment information via ClientLink. Their view of ClientLink reflects their unique relationship with Russell.
ClientLink Administration Wizard (v.1)	The ClientLINK Admin Wizard is an application which is driven by business rules and data that automates; to the extent possible; subscription changes in ClientLink and both-way synchronization of profile changes between ClientLINK and SLX. This application is an administration tool devised to remove the burden of manually setting up and managing organization and user ClientLINK subscriptions. It is designed to enable the relegation of the following processes to computer automation and operations
Cobra	Cobra is a tool for performing risk factor and performance attribution analysis. The results of the analysis are used to enhance performance monitoring and decision making and thus can be classified as decision support applications.
Commission Recapture Reporting	This application is used to generate reports (statements) for Managers of funds which direct trades through RIS' Commission Recapture program. There are a two main reports: Commission Summary and Commission Detail. Output is in PDF and MS Excel format.
Commission Tracking Report	Used by the RIS Commission Recapture team. This is used on a monthly basis.
Conduit	Automates Execution Services trade flow through RIS systems. Will be replaced by Titan.
Content Distribution	This report downloads a list of individuals who should receive RADAR document distributions; based on manager and/or client responsibilities.
Contrib to Risk	Contribution to risk displays simulated Portfolios on the basis of weights assigned to the portfolio.

Convertible Bonds Database	Portfolio Trading Services (GTO) uses the Convertible Bonds database to query data from PACE and custodial cash files in order to adjust equitization targets to their correct levels. Specifically; this includes adjustments for convertible bonds; variation margin payables and receivables; and option payables and receivables.
Corporate Actions	The Full Metal Action application is used by the operations and portfolio managers to track corporate actions as they pertain to current holdings
Country Change Monitor	NULL
CPMS (Computerized Portfolio Management System)	NULL
CPMS Characteristics Map (Canada)	List all CPMS profile characteristics names and their definitions.
CPMS Futrix Holdings Report (Canada)	Interactive CPMS holdings report. Can be used to compare holdings between selected products and quarters. Flexible OLAP reporting environment enables many types of analysis based on holdings data.
CPMS Futrix Profiles Report (Canada)	Interactive CPMS profile report. Can be used to compare profile characteristics between selected products and quarters. Flexible OLAP reporting environment enables many types of analysis based on profile data.
CPMS Futrix Security Level Characteristics Report (Canada)	Interactive CPMS security level characteristics report. Can be used to compare security characteristics between selected securities and quarters. Flexible OLAP reporting environment enables many types of analysis based on security level characteristics.
CPMS GICS Industries (Canada)	List code and description of every GICS Industry.
CPMS GICS Industry Groups (Canada)	List code and description of every GICS Industry Group.
CPMS GICS Sectors (Canada)	List code and description of every GICS sector.
CPMS GICS Sub Industries (Canada)	List code and description of every GICS Sub Industry.
CPMS Holdings Detail History (Canada)	Download holdings detail for one manager or index for multiple quarters.
CPMS Holdings Summary (Canada)	List all portfolios with holdings loaded.
CPMS Portfolio Level Profile Characteristics History (Canada)	Download portfolio level characteristics for one manager or index for multiple quarters.
CPMS Profile Summary (Canada)	List all portfolios with profiles loaded.
CPMS Security Characteristics (Canada)	List security level characteristics for all Canadian securities.

CR Report Manager	The Commission Recapture (CR) Report Manager is used to generate Ad hoc and subscription based "Commission Recapture Fund" and "Soft Dollar Manager" reports. It is used by the CR group based in Seattle (Approx 5 users) to generate/deliver the reports.
CR Toolpak	Macros used by the Commission Recapture team
CRD Publisher	Creates position and fund files that get loaded into Charles River each morning.
CRM Extracts (v. 1.0)	NULL
Cross Reference	A cross reference database and accompanying minimalistic application for maintenance. Cross reference enables integration of data from different sources with different primary keys.
Currency Override Importer	The Currency Override application allows the Fund Overlay Group to automatically adjust currency exposure in CATS to the current day values by importing a file rather than manually typing every adjustment into CATS. Current uses include a daily set of adjustments for KRW total equity and periodic adjustments for foreign exchange repatriations executed with the futures broker.
Custodian Accounting	Custodian accounting and adjustments.
Custom Client Management	Custom client custodian adjusters.
DataLINK	Client Cash Flow & Assets Under Management reporting tool using Cognos 8 BI connected to MS OLAP cubes. The DataLink database (which generates the MS OLAP cubes) is fed from multiple vendor feeds.
Dataloader	Used by several different services on TAC-APP024 to bulk import data from flat files.
DataPrep	NULL
Disaggregated Rank History by GRID	This report downloads to Excel disaggregated rank history; by selected GRID constraints.
Discovery Data Databases	Website access to Discovery Data. This is hosted by Discovery for US PCS fka USD.
Distribution Log	Display a log of recent Content Distributions for troubleshooting and debugging purposes.
Documents by Analyst	This report shows a count of documents produced by an analyst; and can be drilled to show the list of documents for any given analyst.

DST Tip SQL Database	This database is accessed by MS Access databases to create sales; market timing; and other shareholder servicing reports. Also used for research purposes. This database was created to supplement FOSS databases on the UNIX platform. The BU wanted the data stored as it was sent without any calculations or business rules applied.
Einstein OLAP Application	Einstein is a tool that assists Russell's securities (FRS) in analyzing their business activities. Allows users to slice and dice RIS business by the following dimensions: Revenue; Product; Profit Margin; Trade Volume; Time; Client; Manager; Broker; Service Representative; Source; Region and Asset Class. Einstein is one of the systems used by RIS to analyze trading data. The system uses OLAP (OnLine Analytic Processing).
EMIRS	Reports our derivative trades belonging to EU domiciled funds. A middleware provider, Traiana, is being utilized to report on our behalf to DTCC so the system reports directly to Traiana using an MFT feed.
Employee Investor.Russell.com	This Website allows individual investors to get information about trends and issues that affect their finances.
Enterprise Data Warehouse (v. 1.0)	NULL
Equity Analytics	Displays a predefined group of security level characteristics (PE; PB; DivYield; 5Yr EPS Growth; & 5Yr Avg ROE) for each security held by the selected portfolio.
Escher - AI OLAP	Reporting for Fund Info Money Manager Payable. Escher is a key reporting tool used by USI Business Services and USI Finance.
ETF Hub	Creates basket files for ETF Funds
Evestment	Universe Extract data sent to evestment
Event Management System (3.X)	Event Management System (EMS) will accommodate all internal communication and reporting needs for PTG managed transitions. This includes manager changes; fund launches and client activity. This application incorporates new technology which will allow for easy modification and reporting flexibility; and leverages data from other business units in order to reduce or eliminate duplication of effort and storage.
Excess Scatter	NULL
Execution Analysis	Scheduled job which runs to pull analytical data from Bloomberg
Extract All Holdings into FactSet by Universe	Extracts all the holdings from RDB for a particular universe on a particular date and uploads the same to a particular FactSet directory.
FactSet Automated Report Capture	The FARC web tool outputs Portfolio Holdings and Weighting from FactSet.

FactSet DIRECTIONS/Marquee (2010 2.C)	The applications include company analysis; multi-company comparisons; industry analysis; company screening; portfolio analysis; predictive risk measurements; alpha testing; portfolio optimization and simulation; real-time news and quotes; and tools to value and analyze fixed income securities and portfolios. IM&R is expecting to expand the usage of FactSet. It is anticipated that some Bloomberg users can be migrated to FactSet. Many of the future FactSet users are currently TS configured desktop
FACTSET Security Chars	NULL
Fee Maintenance Form DB	NULL
Fiduciary Account Rebalancing System	NULL
Filewatcher	Central application to monitor for the arrival of applications and take action.
Fixed Income Analytics	Used to make a FIA call out to IDC nightly.
Frozen Universe Performance	Download to Excel frozen universe performance data in any currency.
FSA Analyzer	NULL
Fund Country Attribution	NULL
Fund Publishing	The Quarterly Investment Review (QIR) publishing system is a combination of off-the-shelf software applications and custom software applications that enables the publication of reports for clients. Included in the QIR reports are Client Performance Reports (CPR) which are produced by Mellon and transferred to Russell.
Fund Reference (v. 1)	SharePoint site. The Fund Reference system is an authoritative source of basic; static information on all Russell funds and fund-like products (the fund-like category includes separate accounts and managed account strategies; among other types).
Fund Retriever	Pulls list of Russell Funds from InterAction based on wide array of selection criteria. Finds fund info for all Russell funds; complexes & companies including: ALL Managers & Products in funds; past & present. One stop shop for all fund reference data including RADAR. Product IDs (PRID); RDB A/Cs; PACE IDs & PIT Contact Info.
Fund Sector Attribution	NULL
FundSite	Blackfish; a concept technology to enhance the publishing system; revolutionized the way that data flows through the publishing process. The term Blackfish refers to the data source site concept. A data source site is a website sponsored by an Russell business unit that provides links to small pieces of information in either extensible markup language (XML) or hypertext markup language (HTML) formats. The first incarnation of the Blackfish concept is FundSite. FundSite has taken over the labor-in

FundSite Data Extractor	Blackfish; a concept technology to enhance the publishing system; revolutionized the way that data flows through the publishing process. The term Blackfish refers to the data source site concept. A data source site is a website sponsored by an Russell business unit that provides links to small pieces of information in either extensible markup language (XML) or hypertext markup language (HTML) formats. The first incarnation of the Blackfish concept is FundSite.
Fusion (10.17.x.x)	Strategies - Equal Weight Index Weighted Conviction Weighted (mix/hybrid of previous 2) Turnover Weight Limits Funds - Select Holdings Portfolio Emulation
FundWeb	Automated Data interface with Fund Distributors.
FX Act Regulatory Process Online System	NULL
FX Bloomberg Forward Point Refresher	An application which downloads forward point data at specified intervals which is used by the blotter to generate forward curves to check pricing.
FX Blotter	The FX OMS which we use to aggregate and store intraday trading information which is sent and stored in the TM..FXTrades table
FX Cancel Rebill	Used by RIS FX team
FX Connect Web (sell side)	This website allows users to view the trades that have been done through the SellSide service.
FX Contacts Application Database	An access database that stores contact information by counterparty for FX front and back office contacts.
FX Daily PnL	Calculates daily gain loss value for all open FX forward trades
FX GTSS II Uploader	An access database which loads trades from the TM..FXTrades table into the GTSS matching system.
FX Hedged Share Class Performance Database	A database that stores the NAVs of FX Hedge Share Classes; helps generate cash flow trades & calculates performance.
FX Helios	Portfolio Management system for the FX desk
FX Holiday Database	A database that stores currency holidays which is used by the blotter to detect trades that are settling on a holiday.
FX Individual Client SpreadSheets	This tool stores market values; hedge ratios & generates trades for currency overlays.
FX Macros	A vast compilation of macros used by the FX Porfolio Managers & the FX Operations Team.
FX PDF Maker	An application which creates client reports in PDF format.
FX Recon Application MDB	An access database used by operations to reconcile our forward positions against OS; CATs; BBH accounting; and custody data.
FX Reporting	Custom developed reporting application for the FX team

FX Tics	Retrieves FX rates every second via a direct connection to Thompson Reuters
FX Trades Application Database	An access database which provides a read-only view into the TM.FXTrades table.
FX Trades Import	Used to import trades from FX into TM
GM Reports	Custom access mdb for producing CR reports for GM
Go-KART	Revenue tracking application used within RIS and Finance for TM activity
Goldie	NULL
Google Analytics Web Service/GA Dashboard	Used for ClientLINK statistics reporting e.g. end user activity
Goldman Sachs Policy Implementation	NULL
GTO Macros	GTO Macros are housed and maintained within I:\Development\GTOMacros. They are used by Global Trading Operations (GTO) to format data that is received from various counterparties into formats that can be automatically imported into CATS and also for formatting data from CATS into reports that are sent both internally and externally. The CATS imports include client activity; trading activity; custodial cash and holdings data; broker trade details.
Guideline Monitoring	Interfaces with AIM to monitor compliance rules and violations associated with guidelines for managers in Russell funds.
Hermes Policy Simulator	Monte Carlo simulator engine used to generate wealth simulations for high net worth individuals.
Hire List Quality Metrics	A two page print ready Excel based report showing a variety of exhibits intended to portray the quality of the Hire rank buckets.
Hire List Success	Hire List Success is set of standardized; IM&R Compliance approved exhibits intended for use by sales & service (Distribution) associates. The use of any of these exhibits requires prior review and approval by your specific Compliance Team before sending the content outside of Russell. The disclosure page must be included in all presentations prepared from this material.
Hire Rank Counts; Year End Summary	Provides a Yearly summary (plus current quarter) of a total count of Hire Rank products across all of IM&R since 2001. Ties to the hire rank management review.
Hire Rank Management Review	An executive summary report for all the hire ranked products; showing how they compare to benchmarks and universe means.
Hire Rank Performance by Bucket	Download to Excel historical performance of the hire ranked products selected by bucket definitions used in the performance metrics application. The user can select date ranges and return types; e.g. equitized returns.

Hire Rank Performance by GRID	Download to Excel historical performance for the hire ranked products selected by GRID characteristics; supports a number of different user options; like equitized returns and cash returns.
Hire Rank Quarterly Avg Returns by Bucket	Shows average Actual; Equitized; Benchmark; Universe Median; and Excess Returns for each bucket for each quarter for the last 12 years.
Hire Rank Specs	This report shows the specifications for the hire ranked buckets used in the performance metrics applications.
Holdings Detail (RDB)	Interactive OLAP application intended for comparing the holdings of two or more portfolios during any given quarter.
Import Status	Used to report the status of imports into CATS
IMR Application Directory	The application that tracks the inventory of IM&R Apps and Tools and provides a menu system for end users to access those applications and view related documentation.
IMR Data Transfer (10.0.0)	Used to export CATS trades to OS systems (not in use anymore but has not been decom'd)
Index Manager	The goal of IndexManager is to process the change files, apply default rules to varying change types, and build pro-forma forward looking indexes. With the tool the process is fully automated which results in portfolio managers having a greater ability to generate orders and maintain low tracking error on managed index portfolios.
Infomediary (1.1.0)	Used for 202/210 swifting for FX. Should be decom'd eventually once TOPS is up and running.
InKinds Data Transfer (6.0.3)	Used by TM PM's to run inkinds transfers within their portfolios.
Investment Performance Outcome Metrics	Application to manage weights of funds; hire lists; and model portfolios assigned to investment professionals for performance metrics.
Investment Process Attribution	NULL
ISC Fund Watch Report	Shows a list of products that are active assignments in Russell Funds yet which are not ranked Hire (4) or Retain (3). Previously known as ""Products in Russell Funds not Ranked Hire""
IT&R Rebalance Tool (v. 1.0)	The IT&R Rebalance application was developed to support the LDI funds for AI. This application is structured to allow AI to rebalance other acct types in addition to LDI.
Juice	Centralized import tool for the Investment Division
KikAss	NULL



KRW Database	KRW Database is the tool that GTO uses to manage the KRW exposure that is obtained by trading Kospi futures contracts. It's functionality includes daily reconciliation of gains and losses due to trading and market movements; additional initial margin entry; and wire instruction creation. This is maintained separately from other movements because KRW is a restricted currency and there is significantly higher sensitivity to the markets that they are traded in.
LDI Optimizer	NULL
Liability Reporting	The purpose of the Russell Pension Report Card project is to provide internal customers and clients a strategic look at a clients total pension plan by incorporating liability information along with their asset information. The ultimate outcome expected from this initiative is to reinforce Russell's role as a strategic advisor by growing Russell's suite of Asset/Liability tools; strengthening the markets recognition of Russell as a significant player in the strategic advisor space.
Liquidity Analysis	Provides analysis of holdings relative to Days Trading Volume.
Liquidity Reserve Reporting	The Liquidity Reserve Reporting system provides Portfolio Managers and Global Operations Fund Administration people; visibility into what our funds hold in their Liquidity Reserve Accounts. It also provides the ability to categorize why each security or financial instrument has been added to the Liquidity Reserve Accounts.
Log Viewer	Centralized application for parsing logs. Utilized by the production support team.
London Funds WebSite	London Funds provides fund; product; and performance information as well as sales support for both Russell redistribution partners and Institutional clients (in EMEA).Russell's London associates and European Distribution Partners also use this website. OpenDeploy is used to move the site from Tac-App055 to SAVVIS. OpenDeploy performs a fan-out deploy to all servers.
London Rebalancing	London Client Rebalancing system provides a tool for rebalancing funds (EMEA Client Account and Fund of Funds Rebalancing). The Rebalancing application is designed to process one client portfolio at a time. It takes into account the current target fund allocations and current fund holdings held in the portfolio and calculates recommended trades to ensure that the portfolio remains within the target boundaries.

London Reporting System	The London Reporting System (LRS) is required to aggregate holdings data in the underlying Russell funds and re-weight the positions data accordingly in order to report various breakdowns at a profile level for the distribution partners. The LRS also creates fundsite CSV upload files for updating fund information in fundsite.
Loris	Checklist application used to manage business daily workflows.
M204_History Database	NULL
Macro Database	PTS uses the Macro Database to easily view daily changes in the cash files that are obtained from counterparties for equitization targets. It includes the ability to view each g/l item that makes up the total cash balance compared with a different day; and calculates the difference automatically. It stores prior balances to allow for ease of research into cash-related inquiries. It significantly increases GTO's speed and efficiency in confirming cash equitization targets on a daily basis.
Manager Classification	NULL
Manager Extractor	NULL
Manager Funding (10.3.0 Production)	Used by PM's to manage Enhanced Funding activity within TM
Manager Holdings	Download a predefined set of security level characteristics and absolute/excess returns for one manager portfolio for multiple time periods.
Manager Performance Validation	This application is made of two main components - a website (referred to as MMD) and a SQL Server Agent process called MPV.MPV is Manager Performance Validation. This SQL Server Agent Job processes ~700 Excel files a month automatically, validating the data against certain business rules and stores the information in the MMD (Money Manager Data) database that sits on TOK-APP002. MMD is Money Manager Data. Has an administrative website ( <a href="http://tok-app003:5824/mpv/">http://tok-app003:5824/mpv/</a> ) which allows Tokyo Performance
Manager Research Portal	A web application Manager Research Portal (MRP) which both Russell Associates and Clients can access was developed for this purpose.
ManagerSite (1.0.0.0)	ManagerSite is organized to facilitate browsing and copying web links (URLs) into publishing documents; templates; web pages and spreadsheets. ?Manager data is also provided through FundSite web interface specifically for information related to Fund Mandate for a fund.
Market Monitor	Market monitor: is used to follow the movements of the MSCI EM and Dev and S&P Frontier ex GCC; Russell. It downloads the performance data and weights for the countries/sectors of the indices and sorts it by WTD/MTD/YTD.

Meeting Metrics	A collection of four different meeting related reports intended to assist analyst metrics. Available reports include: Meetings Attended; Meeting to Document Interval; Meetings Held; and Meetings Authored.
Meetings by GRID	Meeting information with relevant product data including rank; product aum; developing manager flag; etc. Prompts for GRID characteristics and meeting start and end dates.
Meetings Coordinator	Provides transparency to research meetings by analyst office location; manager name; product characteristics or user customized group of analysts. The tool includes several reports including an analysts meeting planner report that allows users to actively manage the meeting schedules for their products by alerting them when a meeting is due according to Russell's internal meeting frequency guidelines.
MgrTrade.mdb (Manager Notified)	Access application used by the Commission Recapture team for manager notification.
MNT_Cent.mdb	Access application used by the Commission Recapture
Model Loader	Application used for loading manager models into the upstream tables for portfolio solutions.
Model Portfolio Management Review	This report shows the performance of the model portfolios.
Model Portfolio Specs	This report shows the specifications for each of the model portfolios.
Model Portfolio Weights	Shows underlying composite structure of selected model portfolio.
ModelLINK	ModelLINK is asset manager facing tool that is available to the public at <a href="https://modellink.russell.com">https://modellink.russell.com</a> . ModelLINK provides (asset) managers a way to upload model portfolios (excel files with a security list by weight) directly to PS/DI so that we can trade off it.
Momentum_Numbers_(F)	The tool displays market value; ytd performance; 12 month performance for a portfolio against the benchmark and downloads all the data from FactSet.
Morgan Stanley Policy Implementation	NULL
Moth	Used for sync'ing data between the IDODS database and HUB. Specifically security reference information.
MSS Forecasting & Scenario Generation Tool	NULL
My Contacts Report	A report of Money Manager company and people contacts that the selected Russell analyst has met with during a RADAR scheduled meeting. The report includes all people contact details.
New Accounts MDB	This MDB allows the Operations team to create new accounts within CAS. This is used throughout the month.

Normal Distribution of Excess Return Chart	Provides a chart that graphically represents the normal distribution of excess returns based on a single point targets for excess return and tracking error.
OATS Service	Service which imports daily FINRA regulatory files for regulatory reporting.
OmniCash	OmniCash is used by the Portfolio Solutions (future phases will be used by EF and TM) to assist in cash management by projecting settlement date cash balances based on outstanding equity and fx trades.
OpenWorld Site	The London Funds Micro Website; alias IFA MicroSite was developed in ASP and was the original London Extranet Site for Independant Financial Advisor (IFA) services. This has been replaced by OpenWorld developed in .NET. for OpenWorld clients. IFA RussellLink when launched in Production will be the replacement for IFA clients. OpenWorld reflects single manager boutique funds whilst IFA is the UK reaching out to advisers directly for the first time beyond the traditional partnership and distributi
OS / CRD Integration (Chuckie)	Used for processing trades between the OSTRICH application and CRD.
OS Administration	Used to manage imports and validations for OS
OS Client Link Publisher	Find and publish OS reports to ClientLink
OS Dashboard	Web based Overlay Services dashboard.
OS Validation Configuration	Setup app for validation page on the Administrator web site.
OSD	MS Access Database used for managing accounts and securities in OS
OSMacros.xla	Miscellaneous automation tools; trades templates. About 30 macros.
Osprey	Tool for managing OTCs
OSTRICH	OS trade engine; Trade claiming and broker setup; also imports to CATS trade fills.
Overlay Services Api	As part of the Barcelona project and PARIS Tool development, there is a need for external groups to interop with Overlay Services (OS) business line data. Rather than having external groups and systems connect to and query OS data sources (pi database) directly, a set of REST based web api endpoints will be hosted to handle requests from external consumers.
Overlay Services Reporting	OS crystal reporting application
PACE Integration	Imports EDM data into the CRDStaging database on DBPROD8000B for use in the Multi-Asset trading workflow.

Paris	<p>Combines data from various databases/sources to provide a usable portfolio view for multi-asset teams</p> <p>Provides daily analysis of asset allocation, equity exposures, equity risk factors</p> <p>Conducts return based analysis based on data availability</p> <p>Helps scale multi-asset portfolio management by automating standard analysis</p> <p>Can help customize standard analysis for different multi asset portfolios</p>
PaymentReconciliation.mdb	Used by the CR team to insert and manage payments for CATS
PCD - Provision of Client Data	The primary goal of the PCD system is to serve as an interface that allows Australian financial advisers the ability to download their clients detailed transactions and holdings from the investment platforms accounting system into the advisers financial planning system.
PedactyIRTD (1_6_3_0)	Application for real time trade performance analysis for equities
Performance and Reporting Tracking Tool	The Tracking application allows Reporting team (initially Reporting team at Seattle) to monitor progress of individual reports against deadlines and will also support production of regular MI and KPI reports.
Performance and Tracking Error Distribution	NULL
Performance Calculator	Shows historical performance; annualized returns; tracking error; excess returns; and performance by rank for all CURRENT; active members of a universe.
Performance History by GRID	NULL
Performance Prior and Subsequent to a Rank Change	Account performance prior and subsequent to a rank change; based on a user's GRID selection; OLAP environment allows the user to interactively control how the data is displayed.
Performance Summary	This report puts a comprehensive array of performance data; for a selected account; onto a single printable report.
Performance Threshold History	Shows the historical frequency; duration; and timelines by which our funds outperform; or underperform benchmark or peer; or both.
PERISKOPE	PERISKOPE (PErformance RISK Or Profile Exhibits) is an application capable of producing a wide variety of exhibits or data extracts based on Performance and Profile data from RDB along with Risk data from Cobra/Barra.
Plan Allocation Maintenance	The Plan Allocation Maintenance application (PAM) allows Russell USI Client Service and Plan Administration to electronically manage and prepare the AAC/SIS and PAF forms to implement a client's plan allocations.

PM Sounding Board Fixed Income	The tool generates Excess Returns; Tracking Error; Implied Alpha; Co-movement Ratio; Maximum Drawdown; etc and depicts them in charts.
Portfolio Export (10.3.0)	Used for enhanced funding events
Portfolio Holdings (10)	Used by PM's for loading portfolios from APX into holdings for eventual trading in CRD.
Portfolio Setup (6.0.0)	NULL
Portfolio_Attribution_Report (sql) Macro	Excel Macro for monitoring performance for PM's
Power of Past Performance	This report shows the correlation between past excess return and future excess return using a number of graphical outputs.
PP Overview Table	NULL
Pricing (10.5.1)	Used by RIS to price securities
Pricing.exe	A locally installed legacy pricing application which is kept around because of specific updates that the tool allows RIS Operations to make.
Private i (4.7.05 & Analyst v 2.3.4.1)	Capital Calls for Private Equity This is inscope for SOX
Private Informant	Service that collects information from private equity funds, then made available on their site. Similar to Lipper or Morningstar. Same vendor and a related product as Private i
Private Real Estate Performance Data	It is a quarterly based performance measuring system for real estate private equities. PrepData supports the following processes:
Products in Russell Funds	Provides a list of products held in Russell Funds.
Products Missing Benchmark in RADAR	List of currently active products with no benchmark assigned in RADAR. Can be filtered by Asset Class; Geo; Style; and/or Substyle.
Products that Held a Security	Shows a list of all products within the selected universe that held a specified security on a selected quarter end date. The security can be specified by Ticker; CUSIP; SEDOL; CINS; or RDB Security_ID.
Profile Universe Run	Browse Universe and Portfolio level profile characteristics for all portfolios that ran with the universe.
PS Recon	Position and Cash Recon, plus cash management tools for portfolio solutions.
QA Nightlychecks Metadata	Lists all attributes of QA checks and their recipient lists.
Quant Gateway	Collection of application build by the Quant team for use within RIS.
Quarterly Average AUM	Shows current qtr AUM as well as YTD; 1-Yr; 3-Yr; and 5Yr average AUMs for all Russell Funds included in the Fund Specs.

Quarterly Call Pack Tool	The following Factset/Excel based tool allows the user to create a comprehensive holdings and performance monitoring report of a chosen Composite Fund or individual Manager. The report provides the following data: - A factsheet which provides a summary of the most significant stock positions as at the end of the last quarter; stock changes over the last quarter; and stock attribution data over the last quarter. - Active stock positions; grouped by sector; as at the end of the last 12 months. - Fun
Quarterly Conference Calls - Activity Report	This report lists all the quarterly Conference Calls scheduled between the selected dates. The report includes the team that originated the conference call as well as the date; time; location; and attendees of each call.
Quartile Macro	NULL
Radar (v.3.5)	RADAR is the authoritative source for qualitative proprietary content and data about money manager products researched by Russell.
RADAR Category GRID Stewardship - Disaggregated	Shows the current Category GRID mappings in RADAR for Disaggregated Categories
RADAR Category GRID Stewardship - Investment Approach	Shows the current Category GRID mappings in RADAR for Investment Approaches.
RADAR Manager Name Changes	Shows all manager name changes where the manager's name changed from or to the user specified text.
RADAR Research Monitor	The RADAR Research Monitor is a report highlighting the latest manager research meeting activity and findings. The report can be used to quickly identify the ""Summary Analysis"" details (extracted from Finding-Research documents) for a select group of products.
Radar Sub Category List	Report of Full List of Sub Categories
RAICIR	RAICIR: "Russell Americas Institutional Client Information Repository". RAICIR contains the following categories of Client information: Organizations, Plans, Investment Accounts, Holdings, Transactions, and Targets. It replaced the Clientsite database in November 2014. Numerous systems/applications in AI depend on data housed in RAICIR.
Rank Transition Matrix	This report shows a summary of rank movements between two dates for products with a user-defined set of GRID characteristics.
ReALM (v.2)	ReALM manages the allocation of assets between debt and growth funds based on the funding level of a client.

Recon Database	This data has been imported from broker csv files and the master blotter. The database then compares data and matches off trades. It provides detailed reporting on where we do not match and is used daily to fill the gaps of existing broker recon tools attached to cats.
Reconciliation Dashboard	Data Delivery from ISS Sharepoint site to EDM Data OPS sharepoint site.
Records.Russell.com	The site displays the PDF files for Russell Trust Company Daily Net Asset Value pricing for: Commingled Funds Client Funds REEF Funds
Rep Account Data Quality	This report downloads to Excel a listing of representative accounts that have data quality issues.
Rep Account Gaps	This report downloads to Excel a listing of products with gaps in the rep account history database.
Rep Account History Maintenance	This application is used to maintain the frozen rep account history database.
Rep Accounts with no Benchmark	Data quality report showing all rep accounts that do not have a benchmark assigned.
Research Database	NULL
Research Statistics	Reports the number of managers; products researched; high interest and buy rank products; and evaluation sessions held within Russell's geographic regions. This application is used for Vital Stats reporting and to service client and sales presentations as well as RFPs.
RIS Billing	Used by RIS and Finance to manage manage client billing for multiple business lines.
RIS Outlook Macro	Macros build for OS to manage client emails in an automated way.
RIS Reporting	Manage client/counterparty mappings for RIS exposure reports.
RIS Scheduler	RIS Scheduler kicks off many different jobs throughout the RIS Environment
RIT	NULL
RMSuperb	A report manager for Superb
Roll Allocation Tool	The Roll Allocation Tool allows trading to aggregate open futures positions that need to be rolled prior to expiry and to automatically create allocations to the specific client account which gets sent to the portfolio management system and reconciliation tools. The RAT also has the ability to provide pro rata allocations across accounts; which is consistent with best execution policies.
Rolling Fund Returns - Raw Data	Returns a CSV file with quarterly fund; benchmark; and peer returns; including both gross and net returns when available as well a asset values for all Russell Funds where data is available in the RDB.



Russell Data Delivery System (1.0.26.1)	The RDDS as its name indicates is a data delivery system. The RDDS has the ability to gather data from a configured data source and output the selected data into different file types and formats for an application. The application can be a Web Site that will display the content of the files or any other type of application. The RDDS was developed to replace the EiAdmin Tool.
Russell Economic Indicators Dashboard	Russell Economic Indicators Dashboard with the FactSet data feed
Russell Filing System	NULL
Russell Fund Attribution	How much of our funds performance can be attributed to the following: Active Management Russell Research PM Manager Selection Manager Weighting Equitization Implementation.
Russell Fund Management Review	Russell Fund Performance details; similar to the NML scorecard; but with more funds and additional time periods. May be used for determining IPOM scores for underlying funds.
Russell Fund Scorecard Maintenance	Applications for maintaining the NML Russell Fund Scorecard database and producing the quarterly reports. Access to this site is restricted to the Performance Analytics team.
Russell Fund Specs	This report shows the specifications for the Russell funds used in the Performance Metrics application.
Russell Funds Containing an Entity ID in the Custodial ID field	Generates a list of Russell Funds from InterAction that apparently contain a PACE Entity ID in the Custodial ID field (based on the presence of a dash in the value).
Russell Funds Missing Custodial ID	Lists all active funds (or funds terminated within the last year) that are missing the Custodial ID of the LR Account in InterAction
Russell Retirement Lifestyle Planner	Russell Retirement Lifestyle Planner - RLPT focus on retirement planning of US based individual clients. This tool is used by Russell partners (advisors) to advise Russell's individual client's to plan their retirement strategy. This helps to clients to have a good source of income at the time of retirement.
Russell Trade Company	NULL
Russell Vital Statistics	The purpose of this site is to provide Russell associates with up-to-date vital statistics and key corporate information to be used as source data for the completion of RFPs and for ad hoc requests from clients, prospects and other third parties.
Russell.co.nz	Software that supports the operation of the Russell.co.nz website.

RussellETFs.com (v.1)	This website is a Sales and Marketing; Public facing website which presents the Russell-Global ETF's product offering in the market place. It is a non-transactional website and is primarily used to inform the public and Financial professionals about business solutions by using Russell ETF's.
RussellLINK – CA	RussellLINK Canada provides Toronto clients with convenient access to product information; performance and pricing information; research and commentary materials; sales and marketing materials and tools; ramp-up and long-term business development training and operations information and tools.
RussellLINK – US	RussellLINK is a critical tool for USD to effectively service and support its clients; which include Advisors; Banks; Broker Dealers; and Insurance networks.
SalesLogixFileWatcher	Used for importing CRM data into CAS/CR
SAS Brown Bag Material	Links to various SAS resources.
SAS Documentation	Online documentation for the SAS System on UNIX.
SAS Server Usage Statistics	Enables analysis of SAS Web Application use. Shows number of hit by day and time; by program; and user. OLAP front end allows multiple slices and many possibilities for aggregating the data.
Scenario Analysis EM	Shows how managers perform in different market environments and which scenarios play the most important role in performance. This is for MSCI EM.
Scenario Analysis World	Shows how managers perform in different market environments and which scenarios play the most important role in performance. This macro is set up for MSCI World
Sec Lending Global Tool	NULL
Sector Change Monitor	NULL
Security Master (v.6.4.0)	Used to manage the security universe for RIS and all flow going into APX, TM and CRD.
Security Master Synch	Sync's security reference information from the Hub DB on TAC-DB001 to APX
Security Type Locator (6.0.1)	Used by PM's to resolve security types on a manager list
Settlement Instructions (10.0.0)	Used by RIS to view/re-submit Swift settlement instructions.
Settlements Database	This MDB allows Operations to query and update data within the TM database. This is critical for the ops team to do their job on a daily basis.
sNakMachine	Application in RIS to read in ack/nack files from BBH for swifting
SPOCK.mdb	Used by the CR team for wire notifications to managers
SQL 2005 Password Changer (SUP)	Used by RIS users to update their passwords for 2005 sql instances when their passwords expire (CAS specifically)

SQL Vision	Applications that supports ad-hoc query and report building from enterprise databases.
State Street Bank Loader	Loads daily State Street NAV prices into the security pricing table in HUB for use in the Multi-Asset trading process.
State Street Message Exporter	Used to send proposed trades to State Street for execution. Based on this, we will receive a file back (t+1) for the executed price of the prior day.
Stock holders	This report identifies holdings that are in common across portfolios.
Strategic Asset Allocation	<p>This application assists asset managers in Russell to propose portfolios to prospective clients. Using this application, they can forecast returns and associated risks on various portfolios. Based on this information, the clients can decide which portfolio(s) to invest in.</p> <p>This tool can also be used for reporting purposes. For example, the managers can acquire reports for various portfolios created/managed by them.</p>
Swap Manager	Manages swaps for OS.
Swaps Database	Swaps Database is a tool that GTO uses to manage exposure that is obtained by trading Bovespa swaps. Its functionality includes daily reconciliation of gains and losses due to trading and market movements; new swap trade entry; trade ticket creation; and wire instruction creation. This is maintained separately from the CATS blotter because CATS is not currently capable of handling the entry and delivery of swap contracts.
Swift (10.2.0)	Used by RIS manage/send BBH Swift messages.
Syntax	Automated Hldg/Trans. Data interface with DIA Trustee.
Target	NULL
Target Allocation Maintenance (v.1)	<p>TAM is used to enter Reporting target data into the RAICIR database. It has the following core functionalities :</p> <ol style="list-style-type: none"> <li>1) Display &amp; Manage of Reporting Target Allocations</li> <li>2) Edit functionality for Reporting Targets</li> <li>3) Add functionality for new Reporting Targets</li> <li>4) Delete functionality for Future Targets</li> <li>5) Functionality to Show Previous Targets</li> <li>6) Functionality to Display Holdings</li> <li>7) Functionality to Display Transactions</li> </ol>

TDiS Calculator	The Target Distribution Strategies Calculator (or ""TDiS Calculator"" ) assists financial advisors in determining the appropriate combination and number of shares of the Target Distribution Strategies to purchase based on a client's cash flow needs or investable assets. It relies on both internal calculations and a daily data feed from the trading engine (Nitro) used to manage the actual funds. The calculator is accessed by advisors via RussellLINK.
Titan	Automate Execution Services trade flow through the RIS systems. Is a replacement to the Conduit application.
TM Payments	This website allows business users with a CAS login to manually enter payments into the CAS database.
TM Reconciliation	This tool allows the Operations Team to reconcile trading information between TM & CAS.
TM SM Synch and Price Import (Data Loader) (10.2.0)	Used for bulk importing security and/or price information for multiple days from a flat file by the operations or PM team.
TMS - Russell Shanghai	NULL
Tokyo Client Repository (TCR)	NULL
TOMI Dashboard	Used for manually running and tracking jobs related to imports and exports around the Charles River application.
TopAct	NULL
Topben	NULL
TopDec	NULL
TOps	Used for trade notification delivery for MAT trading and eventually all trade flow. Will replace other swift apps.
Toronto Client Rebalancing	Toronto Client Rebalancing is an MS Access and Russell IM&R Rebalancing Algorithm dll application used to rebalance Russell Canada's Client Portfolio's. It uses the same rebalancing algorithm as Russell Canadas ""Fund of Funds"" Rebalancing application and the London Rebalancing application. It calculates the best possible rebalancing trades for a client portfolio allocation with the least possible number of transactions. It also generates several reports used by the Business Unit.

Toronto Fund Rebalancing (v.2.0.8)	Toronto Funds of Funds Rebalancing is an MS Access and Russell IM&R Rebalancing Algorithm dll application used to rebalance Russell Canadas Funds of Funds. It uses the same rebalancing algorithm as Russell Canada's Client Portfolio Rebalancing application and the London Rebalancing application. It calculates the best possible rebalancing trades for a ""fund of funds"" portfolio allocation with the least possible number of transactions. It also generates several reports used by the Business Unit.
Tracking Error Threshold History	NULL
TradeLINK (v1.1G)	This system replaced the "AI Cashflow" system (Access MDB based) in January 2012. The old process was manual (via fax) and involved many handoffs & re-typing of data to get the information into an Access system to be sent in a batch process to State Street.
TradesInError	All broker data comes through this application and database before it is loaded into CAS. Trade Error validates the data before it goes into CAS. It checks to see that all necessary data has been included. It also ensures an account already exists in CAS for the data. Any trades that do not pass the validation phase rEMEAin in the Trades in Error table in the CAS database awaiting research and investment by the CR team.
TradeUtilities.mdb	Used by the CR team for trade activity.
Trading Instructions (10.2.0)	Used by the traders to manage trade instructions.
Transition Macros	Suite of macros used by the business to perform their daily tasks. ranging from automation tools, trades templates and formatting.
Turnover	Shows changes in a portfolio's holdings over time. Uses OLAP to allow users to interactively customize the report.
Turnover Report Tool	Turnover report: Tracks the turnover; buys & sells and the holdings of the RIC PLC fund and managers on the MTD/QTD/1 year basis.
Universe Members with no PRID	Data quality report showing accounts that are or have been members of a performance metrics universe; yet are not associated with a product ID.
Universe Profile Download	Download to Excel profile characteristics for each portfolio that is a member of the selected performance universe.
Upstream Export	Legacy application for managing PS models. No longer in use but hasn't been decom'd.
Upstream Model Maintenance Admin (6.3.0)	Legacy application for managing manager models for PS. Will be decom'd.
UPT	Calculates unit prices.
Validation Runner	Service running on TAC-APP024 to automate processing validations for OS.
Vanguard.mdb	Access application used by CR to produce Vanguard statements.

Viper	Used to manage and track trading programs
Vortex	Used to manage and track trading programs
XVue	Breaks down the execution venues during an event.
XYZ in Portfolio	NULL
RDB Compass	Performs multiple searches simultaneously to lookup account identifiers (Account IDs; Portfolio IDs; PRIDs); manager names; Russell product names; portfolio names; fund details; benchmarks; universes; indices; holdings and returns.

**ANNEX F  
CORPORATE SUPPORT SOFTWARE**

<b>Application</b>	<b>Business Description</b>
Account Setup Reports	Account Setup Reports Uses Advantage data to show specific Advantage account details for clients and billing groups.
Accounting Entries Extract	Accounting Entries Extract provides the bridge between the Advantage application and CODA GL application. For accruals and revenues generated on all accounts in Advantage; accounting entries are created in CODA based on a set of predefined business rules.
ADDiver: Web	Website for navigating AD groups and users.
Advantage Transaction Reporting	Advantage Transaction Reporting provides reports and imports data for client transactions in Advantage.
AE-Account Setup Reports	Account entries extract application, some queries are used for getting information from different account and then some queries for linking that information.
AE-Export Rebates AUST	The Export Rebates / Raise Cash database is a small database used to create reports based on some criteria and also to create files for Australasia or EMEA
AE-Invoice, Reconciliation and Export Reports	The Advantage Billing - Invoice, Recon, and Export Reports database is a small database used to return reports for the Advantage system. The database name is 97-FR-InvReconRpts.mdb
AE-Transactions from Excel	The Advantage Billing System database is a small database to create Advantage Transaction and Import File from Excel Spreadsheet. The database name is TranFmXcel.mdb.
ASPState	NULL
Australia AUM & Cash Flow Analytics Tool	Reporting Repository and OLAP for reporting and analyzing data.
Automated Document Check-In	The ADCI service goal is to pick up files from a set of configurable directories shared across the network and upload them to a document management system; which is Panagon.
BNA Fixed Assets	BNA Fixed Assets is a hosted Web Solution for managing Fixed Assets for Emerald. The following URL's apply: BNA Website: <a href="https://www.bnandweb.com">https://www.bnandweb.com</a> BNA Web UI Prod: <a href="http://bnafixedassets/interfaces/">http://bnafixedassets/interfaces/</a> BNA Web UI QA: <a href="http://bnafixedassets/interfacesqa/">http://bnafixedassets/interfacesqa/</a>
Branch Consolidation	Branch Consolidation consolidates CODA branches entries into the parent company.
CE-Element 3 Lookup	Report supporting the look up of Element 3 details within Coda.
CE-Element 4 Lookup	Reporting solution to look up Element 4 details within Coda.

<b>Application</b>	<b>Business Description</b>
Check Reconciliation	Check Reconciliation downloads cleared check to Emerald to be reconciled with outstanding checks in CODA US Only.
Client Market Value Extract (v.1)	The Client Market Values Extract extracts market values invested in Emerald funds for a requested period; a requested set of client(s) or a requested set of account(s) from the Australian; Canadian; European and US regions authoritative source database daily. Both Institutional and Retail clients can be extracted. CIO type of accounts may be used in the future but the option is disabled for now. The application consists of two parts: an in-house developed system CMVE (P100) and a COTS application
Compliance Registration Database	NULL
CreditDB	NULL
Critical File Replication	NULL
DD Letter Processing	Direct Debit Handling uses Advantage data to create letters for Direct Debit clients.
Definitive Software Library	Centralized Media Store. This location should contain copies of all media used at Emerald.
Element 3 Lookup	Element 3 looks up the names and bank/address details of Vendors; Associates; Clients both the C-Receivable & R-Revenue codes; and any other elements Emerald holds at the 3rd Element position in CODA.
Element 4 Lookup	Element 4 looks up the name and bank/address details of Conference/Events; Investment Funds; Consulting Retainers; Special Projects; etc and any other elements that Emerald holds at the 4th Element position in CODA.
Exchange Rate Extract	The Exchange Rate Extract process selects exchange rates as selected by the user. The extracted rates are then used by the Advantage application server for billing purpose. The admin tool included in the UI of the Exchange Rate Extract process manages which exchange rates will be extracted.
Export Rebates EMEA	Export Rebates EMEA exports rebates and reinvestment data for EMEA and clients and creates a file that can be uploaded into Advantage.
FIFO Matching	Match AR/AP documents; either automatically or per user selection, and post balancing entries.
Finance Payment Console (Net 4.0)	Data processed by Finance Payment Console is used by Finance to settle expense payments as well as generating the AMEX Remittance file for US, CANADA & UK.
Fund Market Value Extract	Fund Market Value Extract provides a role-based user interface to manage the daily fund net asset values for the selected Emerald funds for a requested period and creates an export file in the format required by the Advantage Billing system. The application consists of two



<b>Application</b>	<b>Business Description</b>
	parts: an in-house developed system FMVE (P700) and a purchased application called the Advantage Billing from FIServ.
FX Importer	FX Importer imports currency exchange rate data from an Excel spreadsheet into Advantage.
FX Middleware	Processes/creates inbound data from FX creating cases in our case mgt system.
GL Table Link	The GL Table Link tool allows users to load large amounts of data directly into CODA Financials through the backend tables.
Global Finance Data Services	
Global Phone Directory	The Emerald Global Phone Directory will enable PeopleSoft; the system of record for associate and non-associate data to populate and update Active Directory with current employee information. SharePoint then displays information populated in Active Directory on the SharePoint profile page.
GMS	Group Management System manages group membership of CODA elements.
IC Recon	IC Recon reconciles intercompany transactions from CODA Financials.
Incident Command Center	NULL
Information Security	There is a wide range of privileged groups in active directory to access production servers. These groups need monitoring or at least have an audit trail of users being added, deleted, enabled or disabled over the period of time. A daily report of changes done to these privileged AD groups is sent to owner of AD Group to monitor research and address deviations in Emerald policies.
Invoice; Reconciliation and Export Reports	Invoice; Reconciliation; and Export Reports uses Advantage data to create invoice and reconciliation reports.
Mark to Market	Mark to Market uses CODA Financials data to extract and report on AR/AP Data; export AP/AR data to Excel; setup and maintain loan accounts; extract and report on loan interest; and export loan interest data to Excel.
Membership Tool/Nav Admin Tool	The tool is used to create and manage the visitor profiles and web site settings
MORT - Manager Oversight Reporting Tool (v.1 )	Editing Access managed by AD Group "Manager Risk Visits" which requires Access approval by Access Approvers as listed; other users can view limited number of screens (not able to edit/change any information)
NechoDB	NechoDB allows Emerald to improve reporting information for associate expenses.
New IC Receiver	New IC Receiver receives IC documents in batch.

<b>Application</b>	<b>Business Description</b>
Presentation Hub	The Presentation Hub is the authoritative source for compliance-approved slides and presentations in a centralized location accessible by all Business Units around the world. In addition, it also offers a central location to locate information about Associates.
Print Module	UI which manages print jobs.
Proxy Services	NULL
Quest CE	NULL
Quest Reporter (v. 5.2)	NULL
Reginet (1.0.51798.msi)	Reginet is the RIML client trading and rebalancing system. It holds all wholesale client trades and rebalancing data for clients invested in the Australian domiciled funds. It also feeds data to various other systems within Emerald eg SOAKer, Darwin, and Advantage Billing.
RData (v. 2.1.1.409)	A service layer to produce core data sets from our Enterprise Data Management (EDM) data sources to consuming applications and users throughout the enterprise.
Risk Management Questionnaire	Formerly known as MMQ - Money Manager Questionnaire.
Risk Metrics	RiskMetrics is a portfolio risk measurement software tool that is used at Emerald to measure risk statistics across Emerald's family of funds.
RMealibre	Reporting letter tool for caliber.
RPA Extractor	NULL
RPAP / ANZ interface	Provides clients access to withdrawal funds from ANZ bank account.
Emerald Market Share	An interactive forum for market intelligence built in the .Net framework. Use Marketshare to: (1) View the latest Emerald Market Research reports online (2) Conductor full-text searches to find exactly what you're looking for (3) Read comments from other Emerald associates and post your own. <a href="https://www.russellmarketshare.com/Default.aspx?ReturnUrl=%2fTop_Stories.aspx">https://www.russellmarketshare.com/Default.aspx?ReturnUrl=%2fTop_Stories.aspx</a>
Emerald Templates	The Emerald Templates support the corporate branding initiative.
Emerald Web	Emerald's ASP Intranet websites.
Emerald.com (website software only)	Software that supports the operation of the following websites: <a href="http://www.russell.com/ww/default.asp">http://www.russell.com/ww/default.asp</a> U.S. - <a href="http://www.russell.com/us/default.asp">http://www.russell.com/us/default.asp</a> Misty Ford Americas Institutional - <a href="http://www.russell.com/II/default.asp">http://www.russell.com/II/default.asp</a> Craig Morris Australia - <a href="http://www.russell.com/au/default.asp">http://www.russell.com/au/default.asp</a> New Zealand -

<b>Application</b>	<b>Business Description</b>
	<a href="http://www.russell.sell.com/nz/default.asp">http://www.russell.sell.com/nz/default.asp</a> Singapore - <a href="http://www.russell.com/sg/default.asp">http://www.russell.com/sg/default.asp</a> Mo Loufy Canada - <a href="http://www.russell.com/ca/default.asp">http://www.russell.com/ca/default.asp</a> Mayumi Ohata Japan
SupersOAKer	REGINET and SOAKer services are hosted in SYDDDB004A\SYDDDB004A and utilizes Microsoft SQL Server 2008 to provide the database functionality.
Transaction Importer	Transaction Importer imports transactions entered into an Excel spreadsheet into Advantage.
Transactions from Excel	Transactions from Excel creates an import file compatible with Advantage from Excel spreadsheets.
Treasury Electronic Payment System	TEPS stands for Treasury Electronic Payment System.
Universal File Uploader	Universal File Uploader provides an automated way to receive parse and import flat file feeds into specified databases and call any associated stored procedures to import data as well as follow on calls to process data.
Web Docs	WebDocs project is intended to provide for the viewing of Consulting and Performance information as a PDF via the ClientLink and consulting extranet sites. Clients should be allowed to view only those documents which they receive via other distribution methods such as hard copy mail or email. Each document should be connected to a Coda Client identifier to allow documents to be accessible via the association of a Site Server user login and the Coda Client.

**ANNEX G  
BUSINESS OPERATIONAL SOFTWARE**

<b>Application Name</b>	<b>Business Description</b>
Business Intelligence Profitability System (BIPS)	Only used in Asia-Pac
RDB Analytic Tools	A group of Excel-based macros supported by CGI that return performance and profile data from the research database (RDB).
RDB Data Load	NULL
RDB Tools - Account SECASE Lookup	Looking up account numbers for managers; clients; universe means and medians or indices
RDB Tools - Composite Member	Returns current or historical members of composite accounts; their beginning and end dates; and their weights.
RDB Tools - Equity Profile Report (RDB) (Win7)	Provides fundamental characteristics of managers portfolios. Can be looked at through time or versus other managers.
RDB Tools - Equity Risk Model	The Equity Risk Model is primarily a profile composite estimation tool.
RDB Tools - Excess Universe Statistics (Win7)	Allows the user to extract universe and individual account returns in order to create an excess return chart; calculate universe regression statistics; calculate individual account regression statistics; and/or calculate universe success statistics.
RDB Tools - Performance Analytics	Creates quarterly or monthly performance analytic return streams.
RDB Tools - Performance Risk Analysis (Win7)	The Performance Risk Analysis exhibit is a performance summary showing an account versus expectations; benchmark & peers. Accounts can be selected using either account numbers or RADAR product ids. Representative history can be automatically added to accounts if desired.
RDB Tools - Portfolio Level Macro	Allows the user to extract portfolio level data from the research database.

<b>Application Name</b>	<b>Business Description</b>
RDB Tools - Security Level Macro	Allows the user to extract equity portfolio profile security data from the research database.