



VERULAS.

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V.I.P.E.R is the industry-leading market data entitlements reporting and analytical tool, allowing comprehensive reporting, analysis and control of market data usage. This enables you to further improve your processes for targeted, repeatable and controlled cancellation of unused services on the Thomson Reuters' RMDS platform.

Integrating seamlessly with DACS, V.I.P.E.R's front-end interface is both intuitive and friendly, providing analysis of usage data in a readily usable format.

Highlights include:

- ◆ Reports of unused mounts, enabling exchange fee reductions for those with max counts greater than 1.
- ◆ Single view of unused services for global DACS users.
- ◆ On-screen reports allow users to modify removed data.
- ◆ Audit trail of all content removed.
- ◆ Re-activation functionality.
- ◆ Configurable Exchange rules and support of MISU & L1/L2.
- ◆ Analysis of composite exchange usage.
- ◆ Analysis of usage of products permissioned by user.
- ◆ Availability of automated removal and distribution process for unused content.
- ◆ Harmonises with your DACS usage consolidation procedures.
- ◆ Comprehensive watchlist reporting – invaluable in RIC renames, so that permissioning changes can be made before users are impacted.
- ◆ Analysis of data from Thomson Reuters IDN, Bloomberg BPIPE and other vendor service data inside DACS.
- ◆ Ability to monitor contribution activity when used in conjunction with additional tools available from Verulas.

The screenshot shows the Verulas V.I.P.E.R web application interface. The browser address bar indicates the URL: http://localhost:8080/?command=login - Verulas - VIPER 2.0 - Windows Internet Explorer. The user is logged in as Alec (sysadmin). The interface includes a navigation menu with options like Usage Analysis, RIC Reports, Reactivate, Active Perms, Contributions, and Tools. A main section displays 'Current Statistics' with a table of usage analysis data for various sites.

Site	Potential Save	Current Saving	Status	Updated
Frankfurt	\$ 2814.02	\$ 2814.02	Pending	10/12/2008 13:27
London	\$ 15464.83	\$ 9616.71	Pending	10/12/2008 13:21
Luxembourg	\$ 0.00	\$ 0.00	Completed	05/03/2009 22:00
Milan	\$ 0.00	\$ 0.00	Completed	05/03/2009 22:00
New York	\$ 0.00	\$ 0.00	Completed	05/03/2009 22:01
Totals	\$ 18278.85	\$ 12430.73		

On the right side of the interface, there is a 'Usage Analysis' section with a description of the tool and a 'The V.I.P.E.R Workflow' diagram. The workflow diagram shows a vertical sequence of steps: GENERATE, SERVICES, ANALYSIS, REPORTS, CULL, and COMPLETE, with a large downward arrow indicating the flow.



With unprecedented scope for cost savings and improving efficiency, V.I.P.E.R. has become the premium tool for realising major controlled and repeatable reductions in the market data spend.

In the “Summary by Admin Group” screen to the right, data is displayed numerically in the format:

used / unused / cull

Data is blurred in this report to protect customer confidentiality.

Usage Analysis > Current Statistics

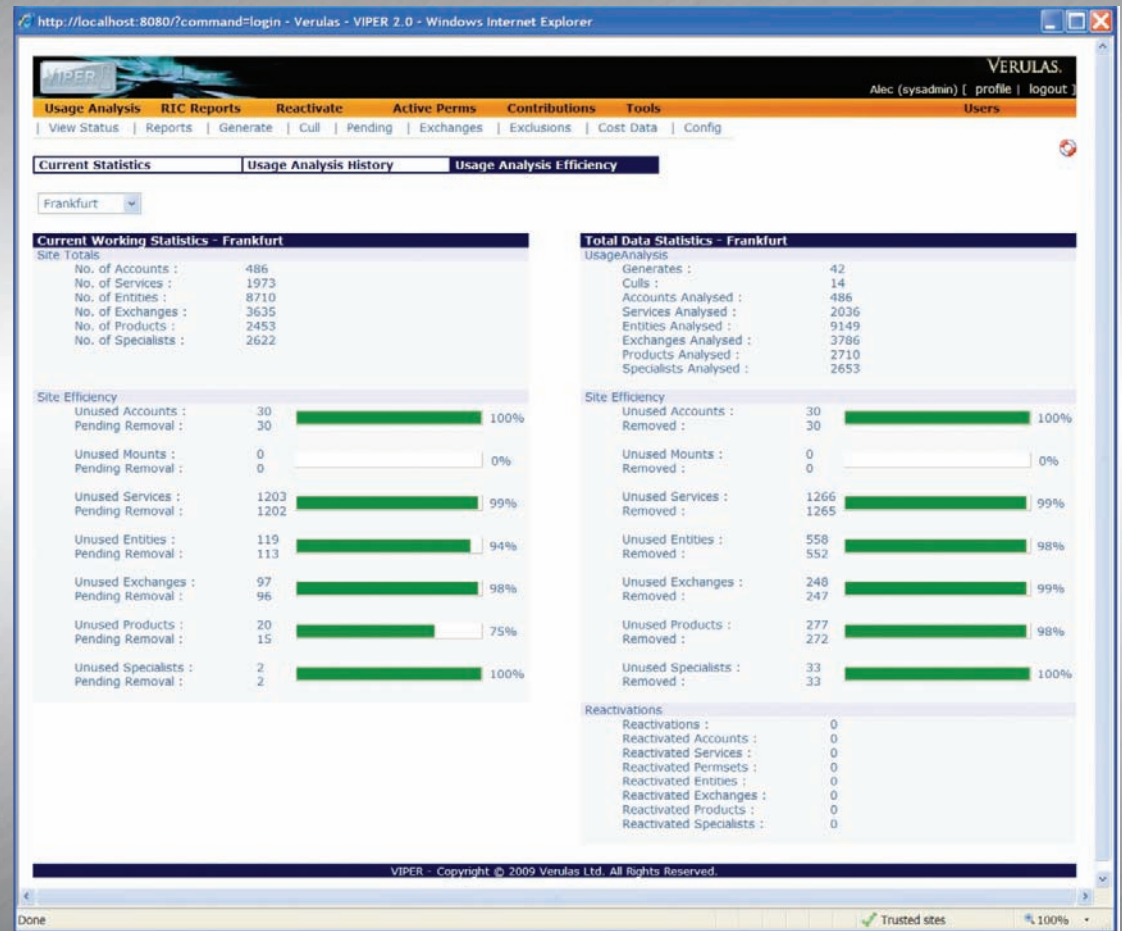
Site	Login	Name	Group	CostCenter	Type	Usage	UsedCost	Waste	Saving	
Frankfurt	b...	Be...	Global Debt		EXCHANGE	9 / 0 / 0	\$230.08	0.0	\$0.0	detail
Frankfurt	b...	Be...	Global Debt		SERVICE	1 / 3 / 3	\$0.0	0.0	\$0.0	detail
Frankfurt	b...	Be...	Global Debt		EXCHANGE	2 / 0 / 0	\$76.61	0.0	\$0.0	detail
Frankfurt	b...	Be...	Global Debt		PRODUCT	1 / 0 / 0	\$0.0	0.0	\$0.0	detail
Frankfurt	b...	Be...	Global Debt		SERVICE	2 / 5 / 5	\$0.0	0.0	\$0.0	detail
Frankfurt	b...	Be...	Global Debt		EXCHANGE	6 / 0 / 0	\$250.99	0.0	\$0.0	detail
Frankfurt	b...	Be...	Global Debt		SERVICE	2 / 3 / 3	\$0.0	0.0	\$0.0	detail
Frankfurt	b...	Be...	Global Debt		EXCHANGE	5 / 0 / 0	\$393.34	0.0	\$0.0	detail
Frankfurt	b...	Be...	Global Debt		SERVICE	1 / 2 / 2	\$0.0	0.0	\$0.0	detail
Frankfurt	b...	Be...	Global Debt		SERVICE	0 / 4 / 4	\$0.0	0.0	\$0.0	detail
Frankfurt	b...	Be...	Global Equities		EXCHANGE	22 / 0 / 0	\$878.81	0.0	\$0.0	detail
Frankfurt	b...	Be...	Global Equities		PRODUCT	4 / 0 / 0	\$0.0	0.0	\$0.0	detail
Frankfurt	b...	Be...	Global Equities		SERVICE	1 / 2 / 2	\$0.0	0.0	\$0.0	detail
Frankfurt	b...	Be...	Global Equities		EXCHANGE	0 / 7 / 7	\$0.0	\$210.24	\$210.24	detail
Frankfurt	b...	Be...	Global Equities		PRODUCT	0 / 1 / 1	\$0.0	0.0	\$0.0	detail
Frankfurt	b...	Be...	Global Equities		SERVICE	0 / 3 / 3	\$0.0	0.0	\$0.0	detail
Frankfurt	b...	Be...	Global Equities		EXCHANGE	6 / 0 / 0	\$169.85	0.0	\$0.0	detail
Frankfurt	b...	Be...	Global Equities		SERVICE	1 / 2 / 2	\$0.0	0.0	\$0.0	detail
Frankfurt	b...	Be...			EXCHANGE	4 / 0 / 0	\$85.99	0.0	\$0.0	detail
Frankfurt	b...	Be...			PRODUCT	1 / 0 / 0	\$0.0	0.0	\$0.0	detail
Frankfurt	b...	Be...			SERVICE	1 / 2 / 2	\$0.0	0.0	\$0.0	detail
Frankfurt	b...	Be...	_APPLICATION_	_SYSTEM_	SERVICE	1 / 0 / 0	\$0.0	0.0	\$0.0	detail
Frankfurt	b...	Be...	Global Debt		EXCHANGE	4 / 0 / 0	\$174.99	0.0	\$0.0	detail
Frankfurt	b...	Be...	Global Debt		SERVICE	2 / 4 / 4	\$0.0	0.0	\$0.0	detail
Frankfurt	b...	Be...	Global Debt		PRODUCT	1 / 0 / 0	\$0.0	0.0	\$0.0	detail
Frankfurt	b...	Be...	Global Debt		SERVICE	2 / 4 / 4	\$0.0	0.0	\$0.0	detail
Frankfurt	b...	Be...	Global Equities		EXCHANGE	10 / 0 / 0	\$369.1	0.0	\$0.0	detail
Frankfurt	b...	Be...	Global Equities		PRODUCT	3 / 0 / 0	\$619.98	0.0	\$0.0	detail
Frankfurt	b...	Be...	Global Equities		SERVICE	3 / 2 / 2	\$0.0	0.0	\$0.0	detail
Frankfurt	b...	Be...	Global Debt		EXCHANGE	3 / 0 / 0	\$99.4	0.0	\$0.0	detail
Frankfurt	b...	Be...	Global Debt		SERVICE	1 / 3 / 3	\$0.0	0.0	\$0.0	detail
Frankfurt	b...	Be...	Global Debt		EXCHANGE	1 / 2 / 2	\$60.93	\$31.5	\$31.5	detail
Frankfurt	b...	Be...	Global Debt		PRODUCT	0 / 1 / 1	\$0.0	0.0	\$0.0	detail
Frankfurt	b...	Be...	Global Debt		SERVICE	2 / 4 / 4	\$0.0	0.0	\$0.0	detail
Frankfurt	b...	Be...	Global Debt		SPECIALIST	0 / 1 / 1	\$0.0	\$54.85	\$54.85	detail
Frankfurt	b...	Be...	Global Debt		EXCHANGE	1 / 0 / 0	\$49.42	0.0	\$0.0	detail
Frankfurt	b...	Be...	Global Debt		PRODUCT	1 / 0 / 0	\$0.0	0.0	\$0.0	detail
Frankfurt	b...	Be...	Global Debt		SERVICE	1 / 2 / 2	\$0.0	0.0	\$0.0	detail
Frankfurt	b...	Be...	Global Debt		EXCHANGE	5 / 0 / 0	\$168.45	0.0	\$0.0	detail
Frankfurt	b...	Be...	Global Debt		SERVICE	1 / 5 / 5	\$0.0	0.0	\$0.0	detail



Efficiency at a glance

The "Usage Analysis > Efficiency" screen quantifies the effectiveness of V.I.P.E.R. culls for unused services, proposed and realised.

Usage Analysis > Efficiency




Help

Context-sensitive help is available from every screen by clicking the lifeboat symbol.

Example Help

Usage Analysis Summary Reports



Report Menu
Below is a graphic explaining the use of the report menu. The menu provides navigational facilities to iterate the report.

Report Type Export this report to the local machine as CSV

Usage Analysis Report - Unused Accounts

Sort By: Site 409 rows Start Previous Next End CSV

Sort the complete report by an alternative column. Report reverts to start page. Total number of rows in the current report: Return to the start of report Go to previous report page Go to next report page Go to last page

Report Data Interpretation

Site	LogIn	Name	Group	Costcenter	Type	Usage	UsedCost	Waste	Saving	
Singapore	kplus	K+ Plus Server	K+		EXCHANGE	2 / 0 / 0	61.1	0.0	0.0	detail
Singapore	kplus	K+ Plus Server	K+		PRODUCT	2 / 1 / 0	595.46	0.0	0.0	detail
Singapore	kplus	K+ Plus Server	K+		SERVICE	3 / 3 / 3	0.0	0.0	0.0	detail

Definitions :

Usage	The numbers represent the total entities used, unused and flagged for removal. If the numbers for EXCHANGE were 2 / 7 / 6 then this would mean the user has : USED 2 exchanges NOT USED 7 exchanges OF THE 7, 6 are scheduled to be removed.
UsedCost	The total cost of the used entities. In the example for usage above this would be the cost of the two used exchanges.
Waste	How much we could save which represents the total cost of the unused entities.
Saving	The amount we are going to save currently should a cull procedure be run. Ideally the Waste and Saving should be the same value which would mean we are cleaning up all unused costs in DACS.



Datascope Agreements

Clients with Datascope agreements are charged based on historical estimates regarding RIC usage by business process. Without V.I.P.E.R RIC reports it is easy to allow a mis-alignment to build up between services paid for and services actually used. This leads to over-payments or compliance issues, and sometimes both.

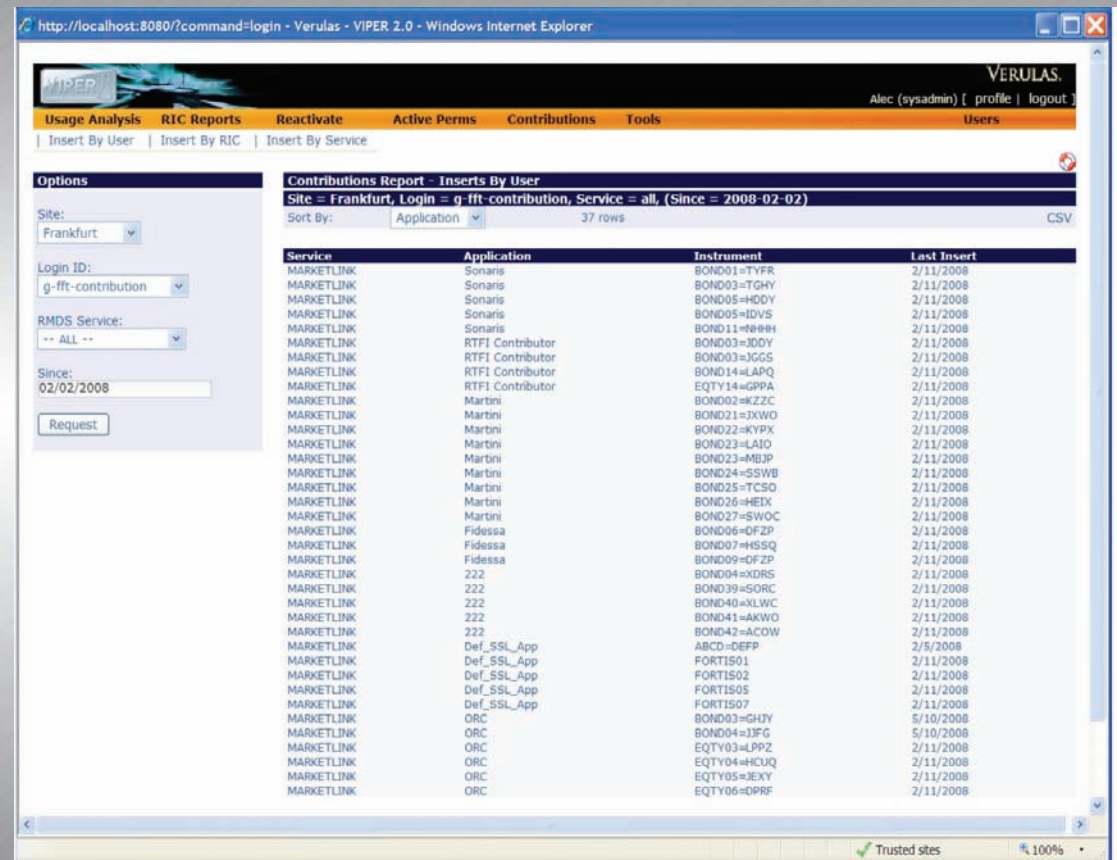
Of the V.I.P.E.R RIC reports available, Usage by Application shows the number of instruments retrieved which is one variable required to calculate the instrument fee.

Additionally data from RIC reports is helpful to assess the cost impact of data notifications which involve RIC renames.

Site	Service	RIC	PE	FirstAccess	LastAccess
Frankfurt	IDN_SELECTFEED	-	142	20/7/2007	7/8/2008
Frankfurt	IDN_SELECTFEED	-	142	25/6/2007	31/10/2008
Frankfurt	IDN_SELECTFEED	AD_STOXXSOE	2445	2/4/2008	2/12/2008
Frankfurt	IDN_SELECTFEED	ADD_DE	32	21/6/2007	1/12/2008
Frankfurt	IDN_SELECTFEED	ADD_DE	32	25/6/2007	31/10/2008
Frankfurt	IDN_SELECTFEED	BVSP	2923	21/6/2007	3/10/2008
Frankfurt	IDN_SELECTFEED	CRB	6471	18/7/2007	1/12/2008
Frankfurt	IDN_SELECTFEED	DJI	6437	1/4/2008	4/12/2008
Frankfurt	IDN_SELECTFEED	DJI	6437	9/7/2007	4/12/2008
Frankfurt	IDN_SELECTFEED	DJI	6437	20/6/2007	2/12/2008
Frankfurt	IDN_SELECTFEED	DJI	6437	21/6/2007	1/12/2008
Frankfurt	IDN_SELECTFEED	DJI	6437	21/6/2007	3/10/2008
Frankfurt	IDN_SELECTFEED	DJI	6437	21/6/2007	25/10/2008
Frankfurt	IDN_SELECTFEED	DJI	6437	25/6/2007	31/10/2008
Frankfurt	IDN_SELECTFEED	EVAS	2923	1/4/2008	4/12/2008
Frankfurt	IDN_SELECTFEED	EVAS	2923	9/7/2007	4/12/2008
Frankfurt	IDN_SELECTFEED	EVAS	2923	21/6/2007	3/10/2008
Frankfurt	IDN_SELECTFEED	EVAS	2923	21/6/2007	31/10/2008
Frankfurt	IDN_SELECTFEED	EVAS	2923	22/6/2007	4/12/2008
Frankfurt	IDN_SELECTFEED	EVAS	2923	25/6/2007	25/10/2008
Frankfurt	IDN_SELECTFEED	EVAS	2923	25/6/2007	31/10/2008
Frankfurt	IDN_SELECTFEED	FCHI	3687	1/4/2008	4/12/2008
Frankfurt	IDN_SELECTFEED	GDAX	3048	21/6/2007	1/12/2008
Frankfurt	IDN_SELECTFEED	GDAX	3048	21/6/2007	25/10/2008
Frankfurt	IDN_SELECTFEED	GDAXI	3048	1/4/2008	4/12/2008
Frankfurt	IDN_SELECTFEED	GDAXI	3048	2/7/2007	25/10/2008
Frankfurt	IDN_SELECTFEED	GDAXI	3048	9/7/2007	4/12/2008
Frankfurt	IDN_SELECTFEED	GDAXI	3048	21/6/2007	1/12/2008
Frankfurt	IDN_SELECTFEED	GDAXI	3048	21/6/2007	3/10/2008
Frankfurt	IDN_SELECTFEED	GSPC	5806	21/6/2007	3/10/2008
Frankfurt	IDN_SELECTFEED	IXIC	3000	1/4/2008	4/12/2008
Frankfurt	IDN_SELECTFEED	IXIC	3000	9/7/2007	4/12/2008
Frankfurt	IDN_SELECTFEED	IXIC	3000	21/6/2007	3/10/2008
Frankfurt	IDN_SELECTFEED	IXIC	3000	21/6/2007	25/10/2008
Frankfurt	IDN_SELECTFEED	KS200	5474	21/6/2007	3/10/2008
Frankfurt	IDN_SELECTFEED	MDAX	3048	1/4/2008	4/12/2008
Frankfurt	IDN_SELECTFEED	N225	6448	1/4/2008	4/12/2008
Frankfurt	IDN_SELECTFEED	N225	6448	9/7/2007	4/12/2008
Frankfurt	IDN_SELECTFEED	N22S	6448	18/7/2007	1/12/2008

Contribution Usage Analysis

In the event that bad prices are being received by others outside the firm it is critical to be able to identify the internal sources of contributed data to ensure data integrity. When a firm has multiple internal sources V.I.P.E.R. analysis of contributions is able to swiftly pinpoint the source so that the appropriate action can be taken.



Options:

Site: Frankfurt

Login ID: g-fft-contribution

RMDS Service: -- ALL --

Since: 02/02/2008

Request

Contributions Report - Inserts By User

Site = Frankfurt, Login = g-fft-contribution, Service = all, (Since = 2008-02-02)

Sort By: Application 37 rows CSV

Service	Application	Instrument	Last Insert
MARKETLINK	Sonaris	BOND01=TYFR	2/11/2008
MARKETLINK	Sonaris	BOND03=TGHY	2/11/2008
MARKETLINK	Sonaris	BOND05=HDDY	2/11/2008
MARKETLINK	Sonaris	BOND05=IDVS	2/11/2008
MARKETLINK	Sonaris	BOND11=H00H	2/11/2008
MARKETLINK	RTFI Contributor	BOND03=JDDY	2/11/2008
MARKETLINK	RTFI Contributor	BOND03=JGGG	2/11/2008
MARKETLINK	RTFI Contributor	BOND14=LAPQ	2/11/2008
MARKETLINK	RTFI Contributor	EQTY14=GPPA	2/11/2008
MARKETLINK	Martini	BOND02=KZZC	2/11/2008
MARKETLINK	Martini	BOND21=IXWO	2/11/2008
MARKETLINK	Martini	BOND22=KYPX	2/11/2008
MARKETLINK	Martini	BOND23=LAIO	2/11/2008
MARKETLINK	Martini	BOND23=MBJP	2/11/2008
MARKETLINK	Martini	BOND24=SSWB	2/11/2008
MARKETLINK	Martini	BOND25=TCSO	2/11/2008
MARKETLINK	Martini	BOND26=HEDX	2/11/2008
MARKETLINK	Martini	BOND27=SWOC	2/11/2008
MARKETLINK	Fidessa	BOND06=DFZP	2/11/2008
MARKETLINK	Fidessa	BOND07=HSSQ	2/11/2008
MARKETLINK	Fidessa	BOND09=DFZP	2/11/2008
MARKETLINK	222	BOND04=XDRS	2/11/2008
MARKETLINK	222	BOND39=SORC	2/11/2008
MARKETLINK	222	BOND40=XLWC	2/11/2008
MARKETLINK	222	BOND41=AKWO	2/11/2008
MARKETLINK	222	BOND42=ACOW	2/11/2008
MARKETLINK	Def_SSL_App	ABCD=DEFP	2/5/2008
MARKETLINK	Def_SSL_App	FORTIS01	2/11/2008
MARKETLINK	Def_SSL_App	FORTIS02	2/11/2008
MARKETLINK	Def_SSL_App	FORTIS05	2/11/2008
MARKETLINK	Def_SSL_App	FORTIS07	2/11/2008
MARKETLINK	ORC	BOND03=GHY	5/10/2008
MARKETLINK	ORC	BOND04=JFJG	5/10/2008
MARKETLINK	ORC	EQTY03=LPPZ	2/11/2008
MARKETLINK	ORC	EQTY04=HCUQ	2/11/2008
MARKETLINK	ORC	EQTY05=JEXY	2/11/2008
MARKETLINK	ORC	EQTY06=DPRF	2/11/2008



Usage Analysis > Exchanges > L1/L2 Rules

Customisations

Many features can be customised including settings regarding individual exchange rules for Level 1 & Level 2 and for MISU agreements.

Many other parameters are configured in "Usage Analysis → Config" including settings to control grace periods for unused services, mounts, reactivation, enablement of DACS distribution.

Summary of Features

V.I.P.E.R has unique features which we believe are not available elsewhere including:

- ◆ RIC usage analysis for Datascope Agreements – for periodic alignment of contracts with usage
- ◆ Contribution usage analysis – to identify sources of rogue prices
- ◆ Mount usage analysis – to analyse and flag those users with max count greater than 1 so that unneeded exchange fees can be cancelled.
- ◆ Global user analysis – While DACS version 5 introduced the concept of a global user where permissioning for more than one site can be set up in one central place, the usage data and reporting functions remain fragmented. The V.I.P.E.R reports enable usage data for global users to be analysed effectively in one place to save time.

Pricing

V.I.P.E.R is priced in bands depending on the number of end-users with data to be analysed.

