The benefits and challenges of supporting third party developers in games

Introduction

- Regner Blok-Andersen
- CCP Games
- Technical Designer

EVE
ONLINE

EVE Online

Technical Player Base

Sci-Fi

Sandbox

12 Years

MMO

Single Shard

EVE Online

User Estimates – **AVERAGES** for 2014

41,000	Peak Concurrent Users	Per Day
175,000	Unique Users Logged In	Per Day
420,000	Unique Users Logged In	Per Month

Definition of a third-party developer

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- Generally in the form of desktop applications, web applications, or mobile applications.
- These developers are NOT paid by CCP.
- They do NOT receive any extra information that anyone else cannot get.

What does CCP offer

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- Image Export Collection

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- Static Data Export

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- OAuth2 Login

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- OAuth2 Login
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- XML API
- CREST API

Our Third-Party development guidelines

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- Players should not have to download an application just to be competitive at EVE.
- No information should be available in to third-party developers that can not be found in the client.

Dealing with the scope of features

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- Design a feature to cover as many use cases
- Scope down and prioritize
- Sometimes cut parts during development
- Ship it

Dealing with the scope of features

- Design a feature to cover as many use cases
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- Sometimes cut parts during development

- Expose the feature via our APIs

- Ship it

Dealing with the scope of features

- Why expose the data?
- How does it help with the scope?

Dealing with the scope of features

Example!

Wallet

My Wallet | Corporation Wallet

Balance
680.525.001 ISK

Journal | Shares | Orders | Transactions

Date: 2015.02.27 | Ref. type: All Types | Load

Date	Type	Amount	Balance	Description
2015.02.27 10:17:10	Transaction Tax	-8.616 ISK	680.525.001 ISK	Sales tax paid to the SCC
2015.02.27 10:17:10	Market Transaction	957.396 ISK	680.533.618 ISK	Market: Cenaria Malfurion bought stuff from Burnte Alter
2015.02.27 09:47:18	Manufacturing	-18.696 ISK	679.576.221 ISK	Manufacturing job fee between Burnte Alter and Secure Commerce Commission (Job ID: 257754308)
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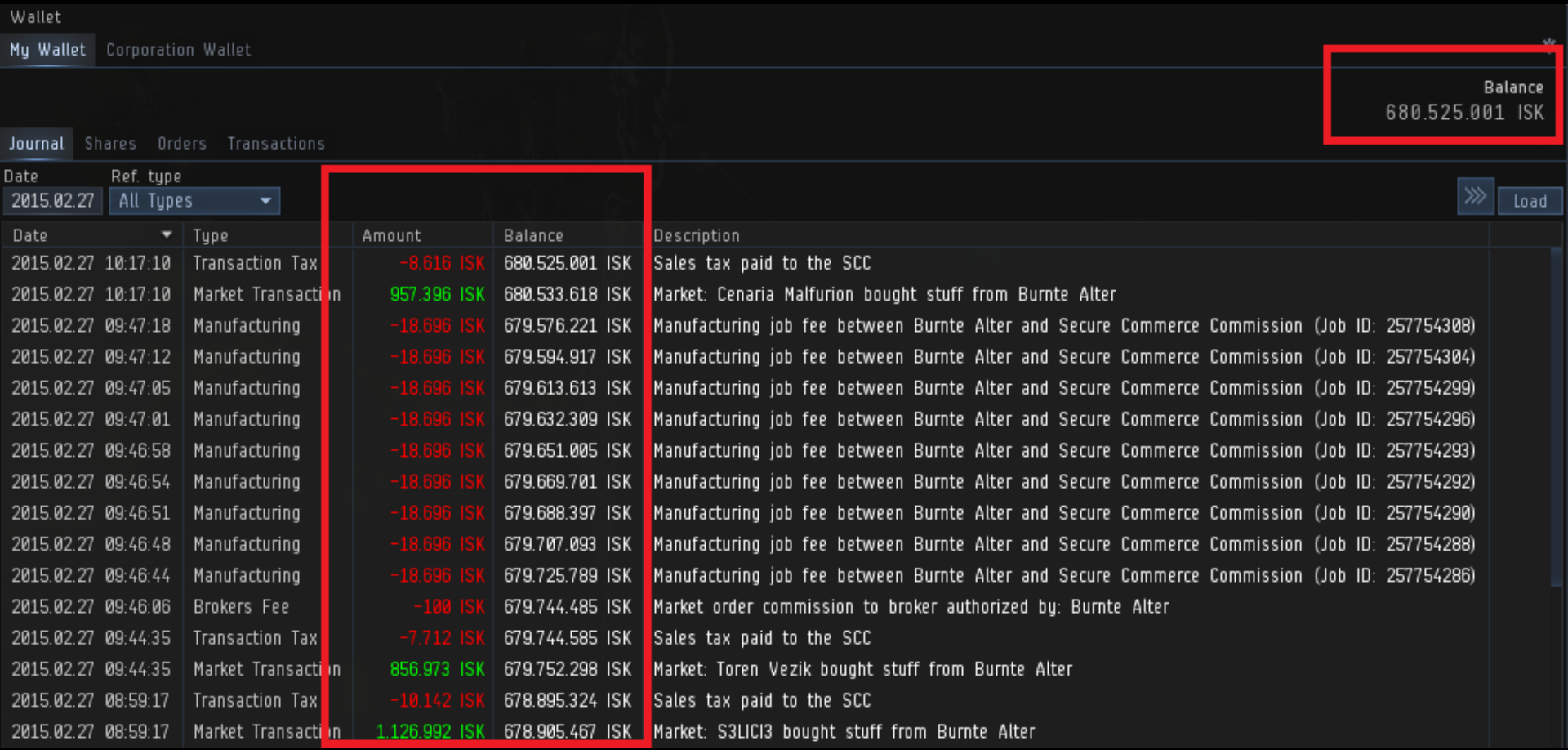
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Dealing with the scope of features

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  <result>
    <rowset name="entries" key="refID" columns="date,refID,refTypeID,ownerName1,ownerID1,ownerName2,ownerID2,argName1,argID
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      <row date="2014-09-25 15:09:25" refID="10085480913" refTypeID="13" ownerName1="C C P" ownerID1="109299958" ownerName2
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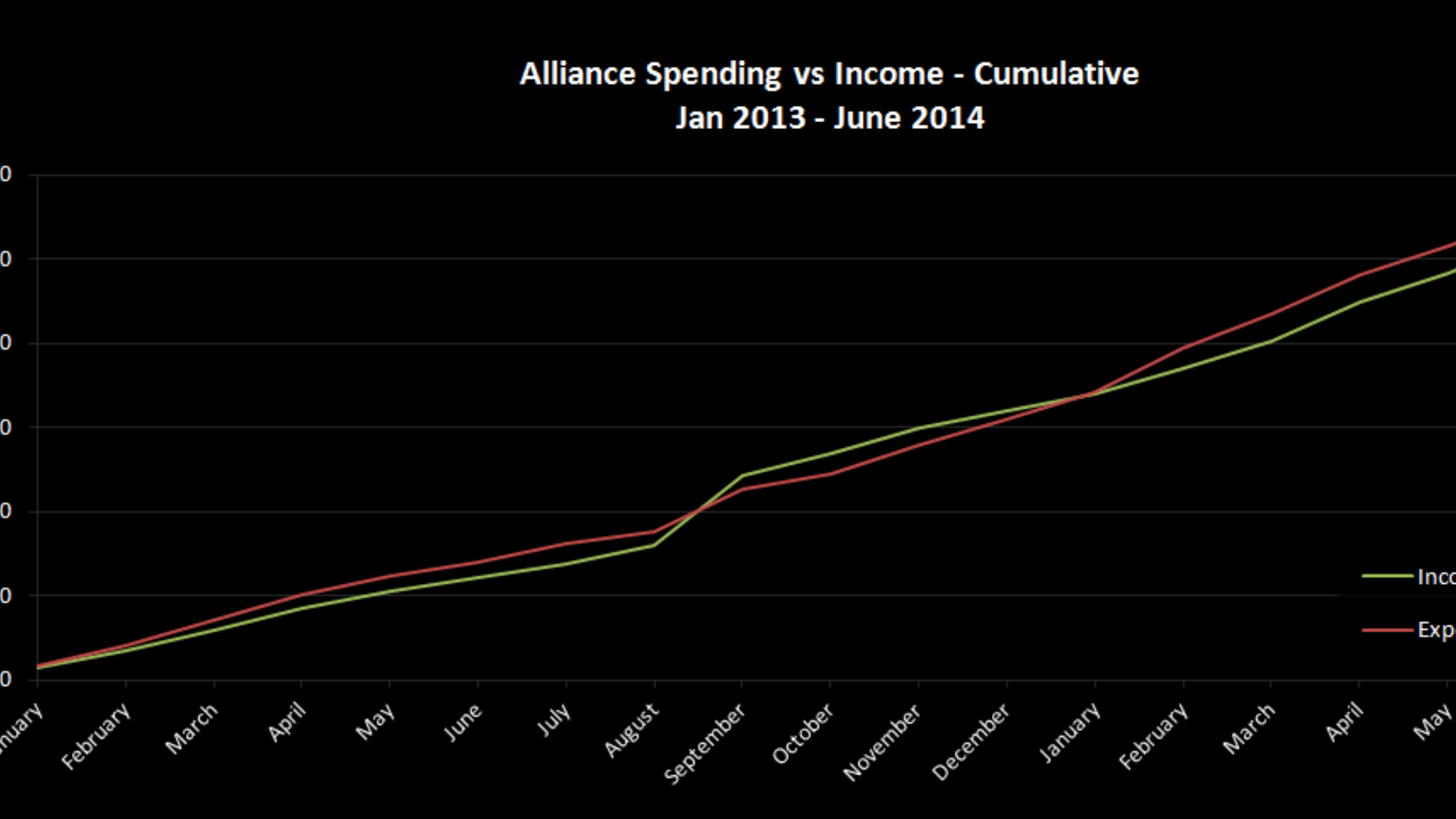
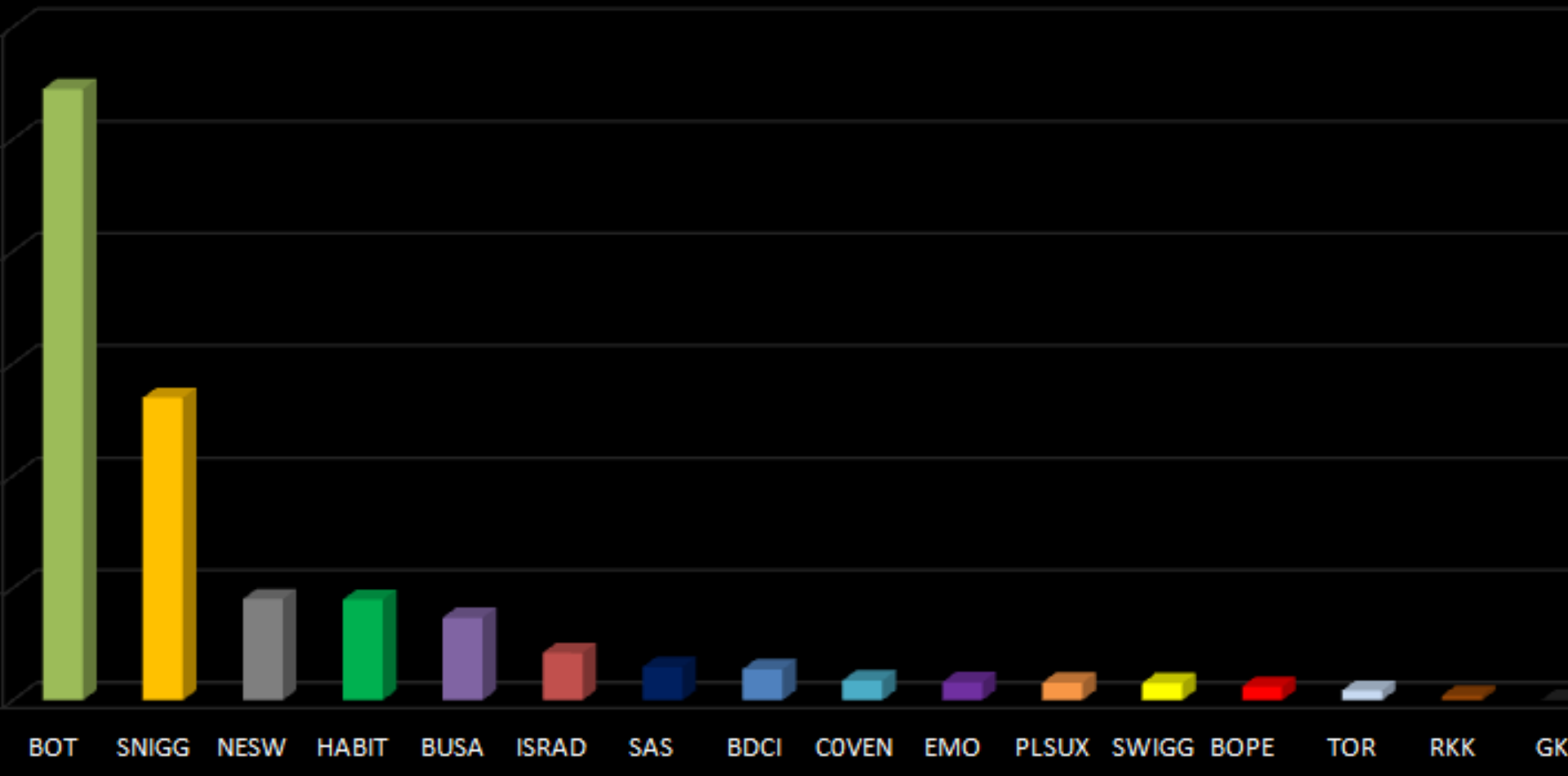
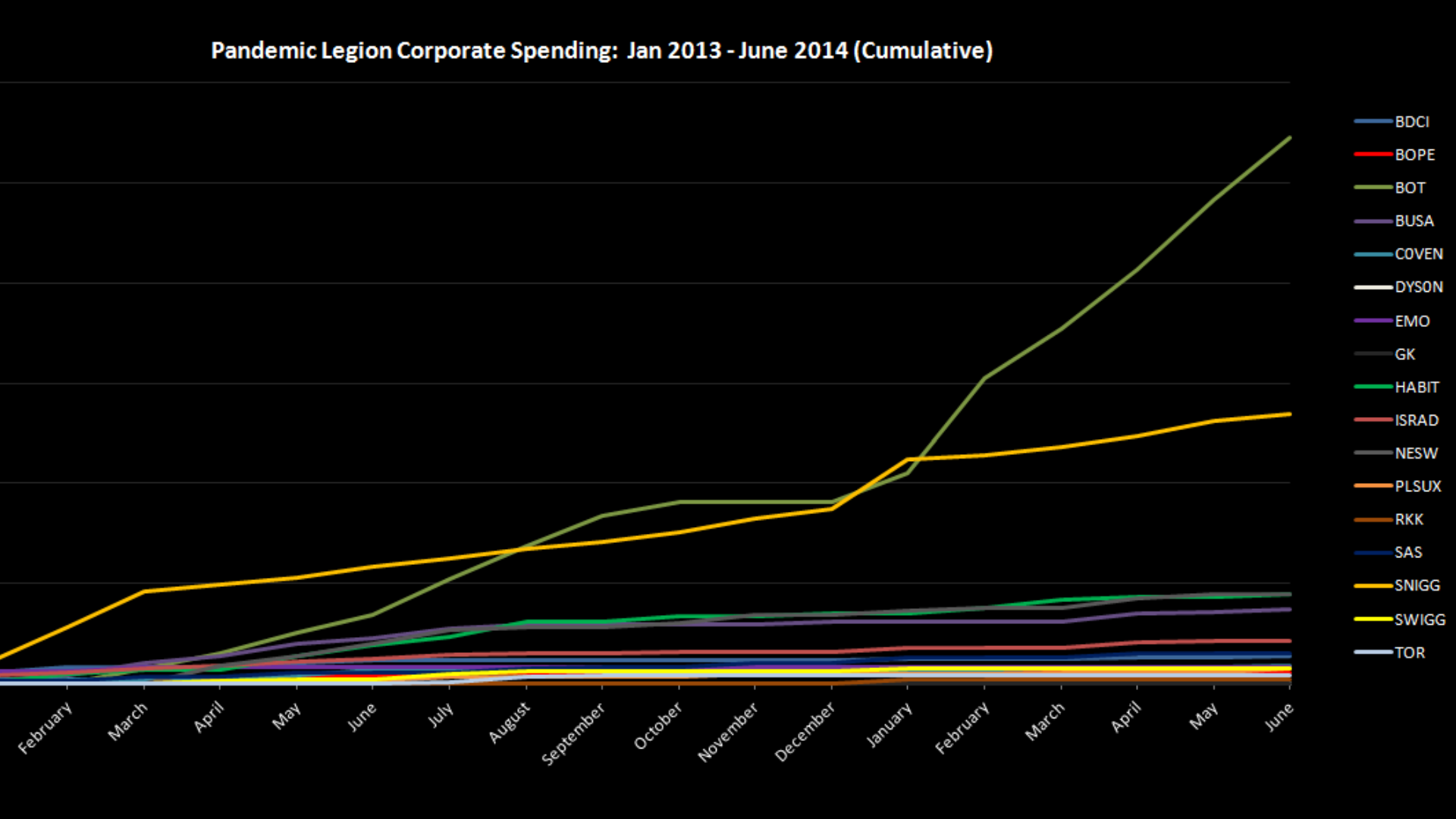
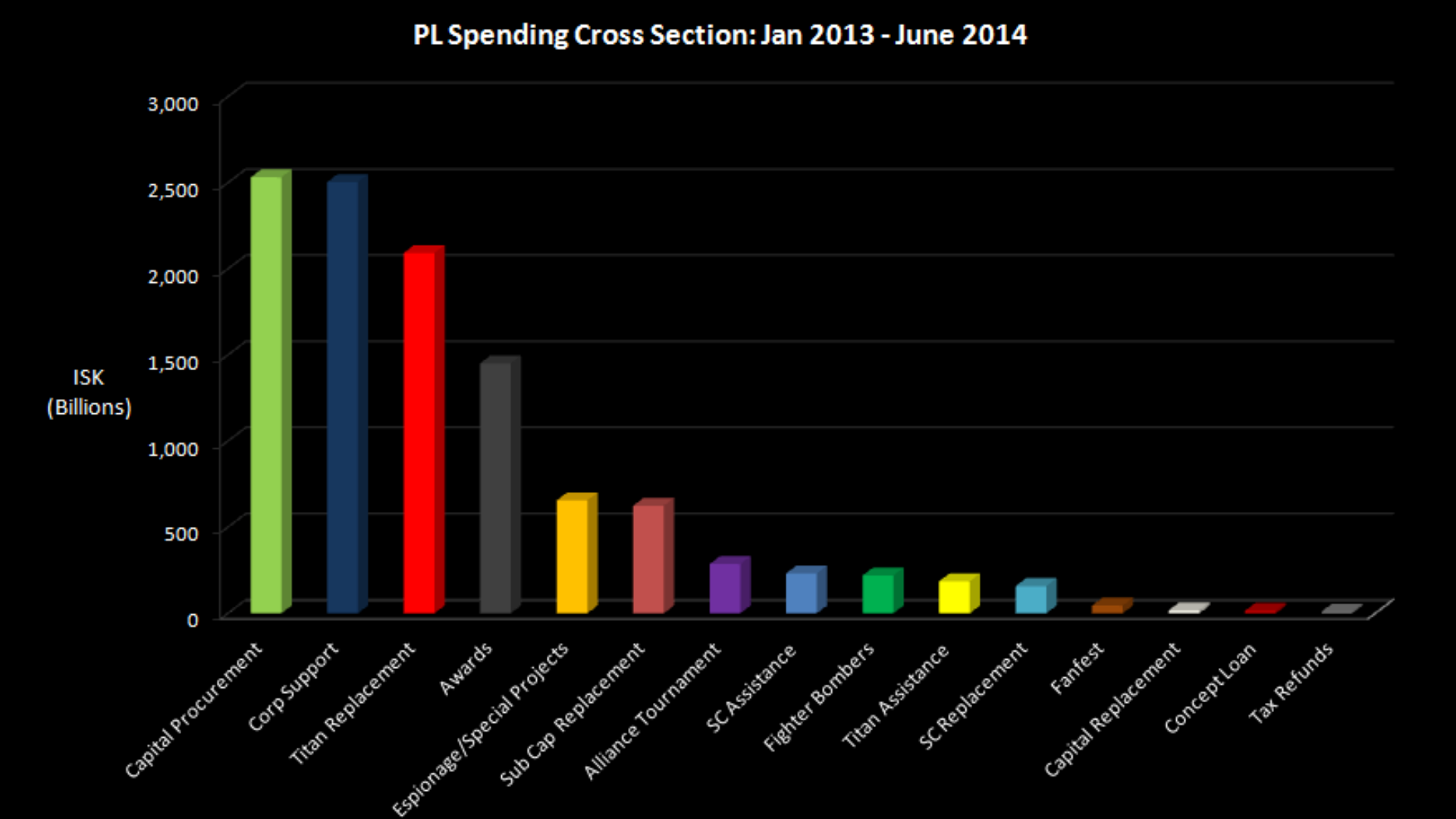
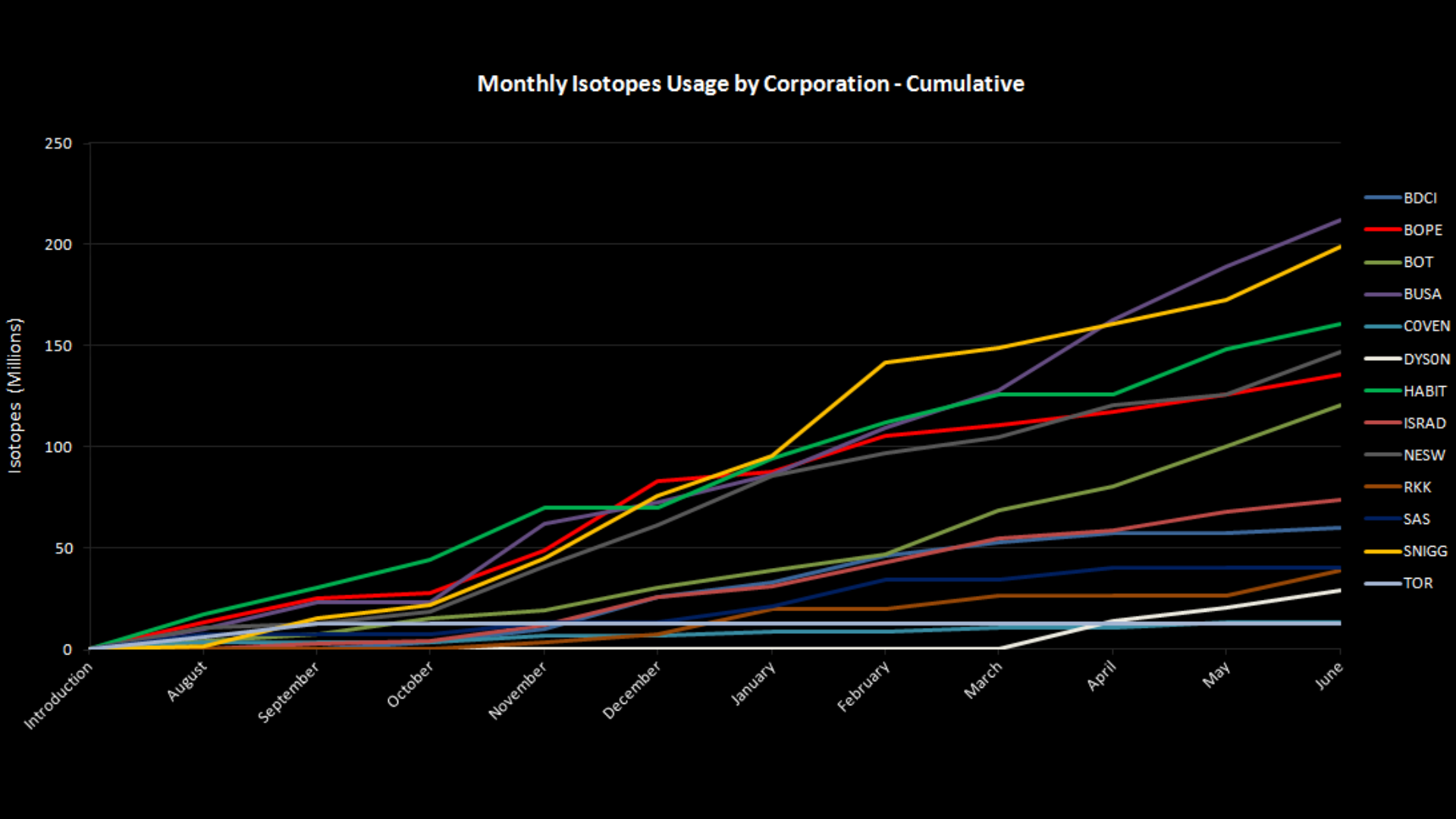

Alliance Spending vs Income - Cumulative
Jan 2013 - June 2014
0
0
0
0
0
0
0
Inco
Exp
nuary
February
March
April
May
June
July
August
September
October
November
December
January
February
March
April
May

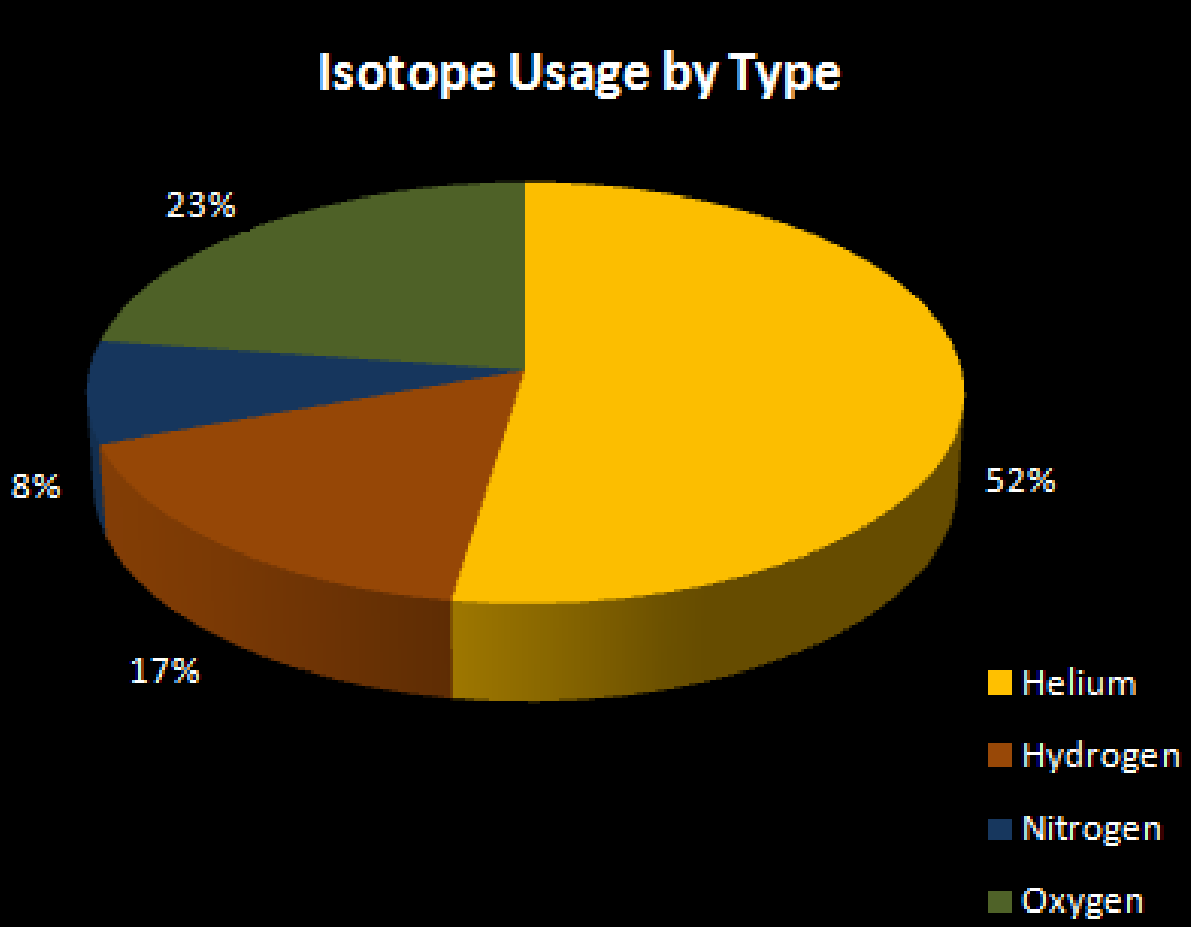
Pandemic Legion Corporate Spending Totals: Jan 2013 - June 2014




Pandemic Legion Corporate Spending: Jan 2013 - June 2014 (Cumulative)
BDCI
BOPE
BOT
BUSA
COVEN
DYSON
EMO
GK
HABIT
ISRAD
NESW
PLSUX
RKK
SAS
SNIGG
SWIGG
TOR
February
March
April
May
June
July
August
September
October
November
December
January
February
March
April
May
June


PL Spending Cross Section: Jan 2013 - June 2014
ISK (Billions)
3,000
2,500
2,000
1,500
1,000
500
0
Capital Procurement
Corp Support
Titan Replacement
Awards
Espionage/Special Projects
Sub Cap Replacement
Alliance Tournament
SC Assistance
Fighter Bombers
Titan Assistance
SC Replacement
Fanfest
Capital Replacement
Concept Loan
Tax Refunds


Monthly Isotopes Usage by Corporation - Cumulative
Isotopes (Millions)
250
200
150
100
50
0
Introduction
August
September
October
November
December
January
February
March
April
May
June
BDCI
BOPE
BOT
BUSA
COVEN
DYSON
HABIT
ISRAD
NESW
RKK
SAS
SNIGG
TOR

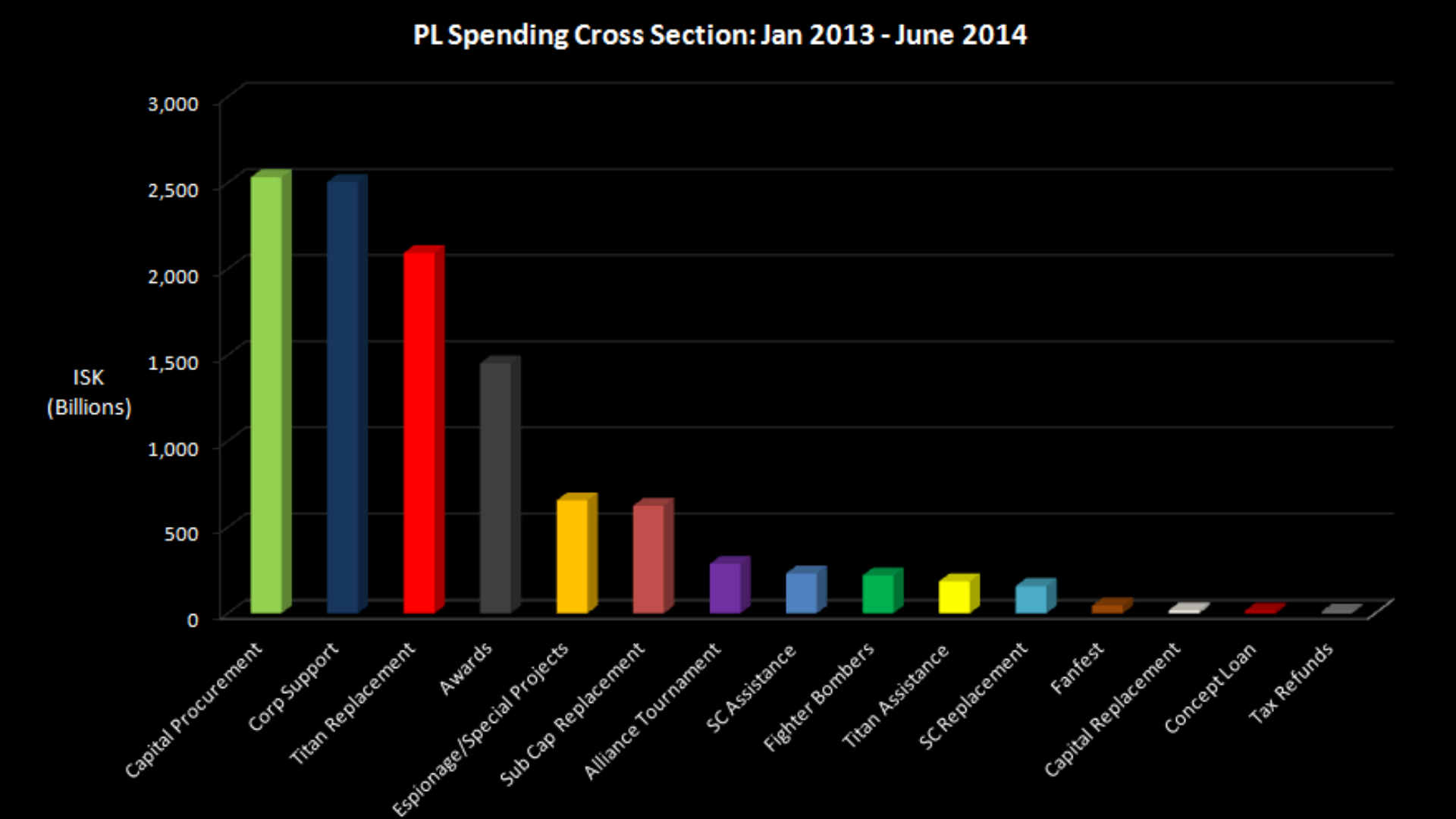

Isotope Usage by Type
23%
8%
52%
17%
Helium
Hydrogen
Nitrogen
Oxygen

Dealing with the scope of features

That was cool!

Dealing with the scope of features

Why not offer it in the client?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2,500
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Corp Support
Titan Replacement
Awards
Espionage/Special Projects
Sub Cap Replacement
Alliance Tournament
SC Assistance
Fighter Bombers
Titan Assistance
SC Replacement
Fanfest
Capital Replacement
Concept Loan
Tax Refunds

Dealing with the scope of features

Dealing with the scope of features

- Character trading

Dealing with the scope of features

- Character trading
- Planetary income monitoring

Dealing with the scope of features

- Character trading
- Planetary income monitoring
- Starbase fuel management

Dealing with the scope of features

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- Character trading
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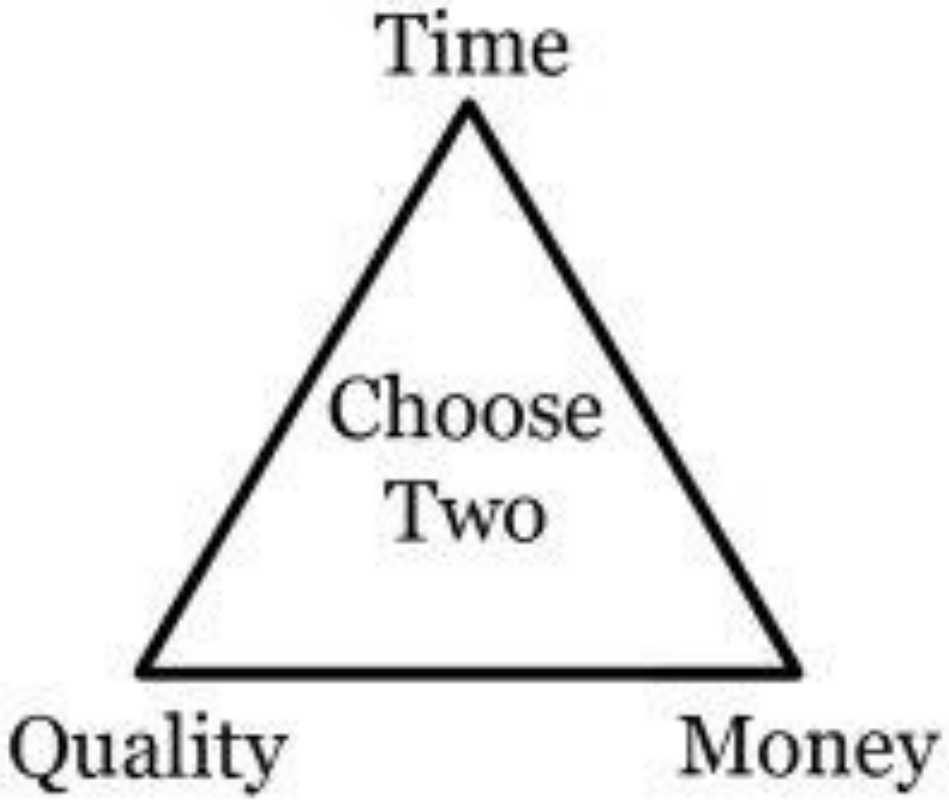
- Cross-account anything

Dealing with the scope of features

- Character trading
- Planetary income monitoring
- Starbase fuel management
- Asset management
- Cross-account anything
- Shopping lists
- Timer boards
- So much more…

Dealing with the scope of features



Dealing with the scope of features

Let third-party developers help you build a better game.

Sometimes, they just do things better

2011.10.28 16:02:00
Corp: Sauce
Alliance: Unknown
Faction: Unknown
Destroyed: Customs Office
System: Abha
Security: 0.4
Damage Taken: 0.00

Involved parties:

Name: Rungu (laid the final blow)
Security: -0.1
Corp: Royal Amarr Institute
Alliance: None
Faction: None
Ship: Armageddon
Weapon: Mega Pulse Laser II
Damage Done: 0.00

- Skills
- Certificates
- Decorations
- Attributes
- Augmentations
- Jump Clones
- Bio
- Employment History
- Standings
- Security Status
- Kill Rights
- Combat Log
- Pilot License

Kills | Losses | Settings

1 minute, and 4 seconds ago
Sauce [SAUCE]
Customs Office, Abha, Derelik, 0.4

Combat Details

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Victim:	Sir Gankal0t
Corp:	The Trillionaire Club
Alliance:	None

Ship:	Abaddon (Battleship)
Location:	Uedama (0.5)
Date:	2013-11-10 19:17:00
ISK Loss at time of kill:	27,211,400,000
Total Damage Taken:	90,735

http://zkillboard.com/detail/34442541/

Involved parties: 2

Tora Bushido
EVE Corporation 987654321-POP
The Marmite Collective
Megathron (Battleship)
Unknown
Damage done: 60463 (66.64%)

magic preacher
Concentrated Evil
The Marmite Collective
Typhoon (Battleship)
Nova Rage Torpedo
Damage done: 30272 (33.36%)

46 comments

★ 2

Leave a message...

Best My Disqus Share

Pilot details - CCP FoxFour - May, 2013

Need a GTC? Get one at Shattered Crystal, right here, and help pay for the servers.

Corporation:	C C P
Alliance:	C C P Alliance
Kills:	4
Losses:	5
Damage done (ISK):	0.03B
Damage received (ISK):	6.59B
Chance of enemy survival:	55.56%
Pilot Efficiency (ISK):	0.52%

Think you're missing kills? You're not!

Ship class	K	L
Black Ops	0	1
Capsule	0	2

Ship class	K	L
Frigate	4	0
Logistics	0	2

4 Ships killed (0.03B ISK) **5 Ships lost (6.59B ISK)** 0.52% Efficiency (ISK)

All kills

Ship type	Victim	Final blow	Location
Slasher Frigate	**Ug Alar** Brave Newbies Inc.	**Hegia Rilemack Opper** Red Federation	Devoid / Rahadalon (0.4) 2 **13-05-05 21:39**
Condor Frigate	**Lespau** The Warmongers	**Kasumi Kiku** Brave Newbies Inc.	Devoid / Rahadalon (0.4) 9 **13-05-05 21:34**
Condor Frigate	**Mister Alfa** The Warmongers	**Mia Aivoras** Brave Newbies Inc.	Devoid / Rahadalon (0.4) 16 **13-05-05 21:33**
Condor Frigate	**Francky Nackols** The Warmongers	**Jenahl** Brave Newbies Inc.	Devoid / Rahadalon (0.4) 4 **13-05-05 21:33**

System details (Year: 2014 Month: 10) - Rahadalon

Need a GTC? Get one at Shattered Crystal, right here, and help pay for the servers.

50 most recent kills

Thursday, October 9th

Ship type	Victim	Final blow	Location
Customs Office Customs Offices	Rahadalon Honorable Third Party	ADONISS PRIMUSS GeoCorp.	Devoid / Rahadalon (0.4) 19 10:35
Customs Office Customs Offices	Rahadalon Honorable Third Party	ADONISS PRIMUSS GeoCorp.	Devoid / Rahadalon (0.4) 24 10:12
Customs Office Customs Offices	Rahadalon Honorable Third Party	John MoonHawk Occidendi	Devoid / Rahadalon (0.4) 26 View Comments 09:54
Customs Office Customs Offices	Rahadalon Honorable Third Party	Keroes Event Horizon Expeditionaries	Devoid / Rahadalon (0.4) 27 09:44
Customs Office Customs Offices	Rahadalon Honorable Third Party	genghiscayyne Christ's Little angels	Devoid / Rahadalon (0.4) 25 09:16
Customs Office Customs Offices	Rahadalon Honorable Third Party	RTBrian Kado Void Enterprises	Devoid / Rahadalon (0.4) 24 View Comments 00:37
Customs Office Customs Offices	Rahadalon Honorable Third Party	Thermo Luminescence Un4seen Development	Devoid / Rahadalon (0.4) 23 View Comments 00:30
Customs Office Customs Offices	Rahadalon Honorable Third Party	Thermo Luminescence Un4seen Development	Devoid / Rahadalon (0.4) 23 View Comments 00:22
Customs Office Customs Offices	Rahadalon Honorable Third Party	N00b FOO Kongsberg Vaapenfabrikk Amarr bra	Devoid / Rahadalon (0.4) 21 View Comments 00:11

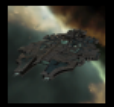
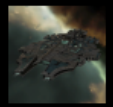
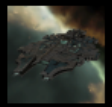
Tuesday, October 7th

Ship type	Victim	Final blow	Location
Capsule Capsule	ashurman Honorable Third Party	GerryHUNAvatar Clan Astreia	Devoid / Rahadalon (0.4) 14 20:09
Venture Frigate	ashurman Honorable Third Party	Mia Wonder AREA 43	Devoid / Rahadalon (0.4) 11 20:07
Purifier Covert ops	Venila The Volition Cult	Dota Sorjat Volition Cult	Devoid / Rahadalon (0.4) 1 View Comments 19:32
Eris Interdictor	Niko Centino The Volition Cult	Dota Sorjat Volition Cult	Devoid / Rahadalon (0.4) 1 19:31

Kills - October, 2014

Need a GTC? Get one at Shattered Crystal, right here, and help pay for the servers.

Most Expensive Kills

Lilly Genory	J130735 V...	MyCarrion	wilkokab	Lady2dmax
				
Rhea 89.23 billion	X-Large S... 47.77 billion	Nyx 25.84 billion	Nyx 25.51 billion	Nyx 21.41 billion

Capsules - Last 7 Days

mf198k	nomnom rocks	Mr Antiso...	Yr Hom	D800
Capsule 5.79 billion	Capsule 4.42 billion	Capsule 4.38 billion	Capsule 4.27 billion	Capsule 4.11 billion

[Page: 1 2 .. 2081]

Thursday, October 9th

Ship type	Victim	Final blow	Location
Capsule Capsule	Panthone Mardi Genocode	Melopoeus Plutonium-239	Metropolis / Resbroko (0.4) 3 View Comments 21:16
Hyperion Aliastra Edition Battleship	Centurion Utama The Fearless Empire	Haidere Phoenix Enterprise Inc	The Citadel / Hasama (0.3) 7 View Comments 21:14
Merlin Frigate	Panthone Mardi Genocode	Enigma B R.I.P.D	Metropolis / Resbroko (0.4) 5 View Comments 21:14
Capsule Capsule	Gaara's sniper Goonswarm Federation	Kviro Witbane Get Fight	Deklein / CZDJ-1 (0.0) 18 View Comments 21:13
Ishtar Heavy assault	Gaara's sniper Goonswarm Federation	Freestyle Pocker The Scope	Deklein / CZDJ-1 (0.0) 20 21:13

Menu

Navigation

- Previous Month
- Kills
- Losses

Eve Time

21:18

Top Killers

1. CONCORD Police Captain 1460
2. Blake Dex 549
3. Joktan 528
4. PERUNGA 520
5. Domania 468
6. Caldari Police 3rd Lieutenant 461
7. sean1121 451
8. Federation Frigate 450
9. Xrend 443
10. Yngvarr Khshayarsha 433

(Updates Hourly)

20:22						Funkstar KushDeluxe Atron	The Greater Goon Clockwork Pineapple				
20:23						shelly's Jihad Crow	The Vikings of Valhalla				
						Funkstar KushDeluxe Capsule	The Greater Goon Clockwork Pineapple				
20:24		Unprecedented Stiletto	Shadow Monolith The Gorgon Spawn			Peter Sibiro Blackbird	Blue Republic RvB - BLUE Republic				Elend Ventrue Hurricane Fleet Issue	EVE University Ivy League
20:25		Unprecedented Capsule	Shadow Monolith The Gorgon Spawn			Tomatoe Reaper	Republic Military School				
20:29		VahidAlBarovi Raptor	Iris Covenant The Gorgon Empire			Tomatoe Capsule	Republic Military School				
20:40						Anny Egivand Stiletto	USSR Zero Detachment Peacemakers. Coalition				
20:41						Tomatoe Capsule	Republic Military School				
20:43									jesperjoe Phantasm	Volition Cult The Volition Cult	
									Joeziah Phantasm	Corp 54 Curatores Veritatis Alliance	
20:44						Mr Chickenz Hurricane	Kool Kiting Klub		Tux Xaar Celestis	AREA 43 Sev3rance	
									Jake Spear Deimos	SolutionX industries Silent Infinity	
									Donavon Irish Exequror	Asylum Institution Care Factor	
20:45									Botia Macracantha Phantasm	Volition Cult The Volition Cult	
									Jean Drexler Phantasm	Bene Gesserit ChapterHouse Sanctuary Pact	
20:46						Joe Grayne Hurricane Fleet Issue	Red Federation RvB - RED Federation				
						Searbhreathach Vigil	Epidemic. Nulli Secunda				
						Mobilus1978 Hurricane	The Promised Land				
						Yoshiki Oda Malediction	Club Bear				
20:47						Minty Aroma Sleipnir	Nisroc Angels The Obsidian Front		Jade Voice Phantasm	Pavillon Rouge The Volition Cult	
						Yoshiki Oda Capsule	Club Bear		Mman Themen Phantasm	GeoCorp. Curatores Veritatis Alliance	

Sometimes, they just do things better

zKillboard

658k Visits

3.1m Page Views

200k Unique Visitors

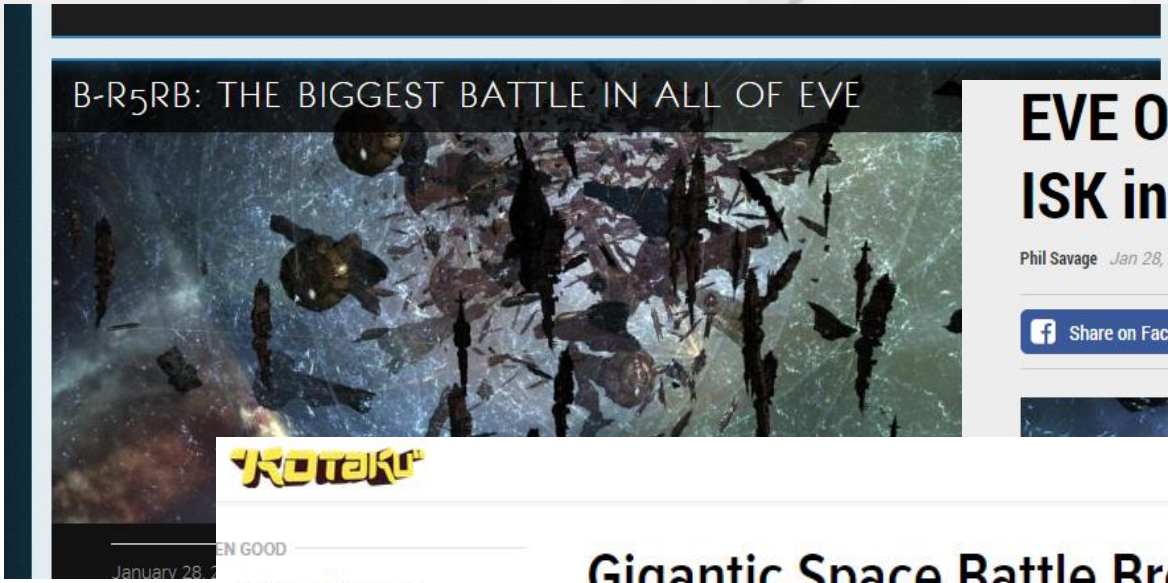
EVE-Kill

1.6m Visits

8.6m Page Views

401k Unique Visitors

Sometimes, they just do things better



EVE Online's biggest ever battle: tr
ISK in damages and over 70 titans

Phil Savage Jan 28, 2014

Share on Facebook Share on Twitter More

Kotaku

LOG IN SIGN UP

EN GOOD

January 28, 2

een Cereal Problem

throom Fight Left Partially

n Tweets Photos Of Some Big

ng Company Team Up to
reast Cancer

Gigantic Space Battle Breaks Out in *EVE Online*, Thanks to Unpaid Bill

Owen Good
Filed to: EVE ONLINE 1/27/14 2:39pm

329,756 14

EXPAND

Click to preview / Drag to share

TSID

Habitual Euthanasia
Pandemic Legion

Revenant (Supercarrier)

2013.07.08 01:05
Odamia 0.2 < **Serthoulde** < **Placid**

3,750,695 Total Damage Taken

Final Blow

Admiral Thelaro
Origin.
Black Legion.
98,693 (2.6%)

Top Damage

Zankii
Broski North
Black Legion.
169,396 (4.5%)

Ban Dwagon
Broski North
Black Legion.
157,500 (4.2%)

Lokradu
Broski North
Black Legion.
151,713 (4.0%)

Mr Bio
Immortalis Inc.
Shadow Cartel
135,654 (3.6%)

Konkel
Origin.
Black Legion.
103,380 (2.8%)

muhadin
Origin.
Black Legion.
99,077 (2.6%)

Khann Runner
Origin.

Fitting and Content

Save Fitting

High Power Slots

Capital Murky Shield Screen Transmitter I	1
Remote ECM Burst I	1
Capital Murky Energy Transmitter I	1
Vizan's Modified Heavy Energy Neutralizer	1
Vizan's Modified Heavy Energy Neutralizer	1
Chelm's Modified Large EMP Smartbomb	1
Cynosural Field Generator I	1

Medium Power Slots

Pithum A-Type Adaptive Invulnerability Field	1
Pithum A-Type Adaptive Invulnerability Field	1
Shadow Serpentis Sensor Booster	1
Shadow Serpentis Sensor Booster	1
Pith X-Type EM Ward Field	1
Cap Recharger II	2

Low Power Slots

Caldari Navy Power Diagnostic System	1
Caldari Navy Power Diagnostic System	3
Damage Control II	1

Rig Slots

Large Core Defense Field Extender II	3

Drone Bay

Firbolg	4

War Report

Started 2013.02.20
Mutual War

RvB - RED Federation
1,449,802,175,677 ISK Killed
98,754 Ships Killed

RvB - BLUE Republic
1,633,487,344,464 ISK Killed
109,870 Ships Killed

Show all kills ☒ Show graph

2014.10.03

Victim **AMGGreg** (Blue Republic) [RvB - BLUE Republic]
Final Blow **Blood Hellioin** (Red Federation) [RvB - RED Federation] 02:13

Victim **Jean-Baptiste Diabolito** (Blue Republic) [RvB - BLUE Republic]
Final Blow **Blood Hellioin** (Red Federation) [RvB - RED Federation] 01:01

2014.09.29

Victim **Nicolas Ulsvale** (Blue Republic) [RvB - BLUE Republic]
Final Blow **Odin Utama** (Red Federation) [RvB - RED Federation] 15:42

2014.09.28

Victim **Lan tos** (Red Federation) [RvB - RED Federation]
Final Blow **Halurexicon Davion** (Blue Republic) [RvB - BLUE Republic] 00:20

2014.09.23

Sometimes, they just do things better

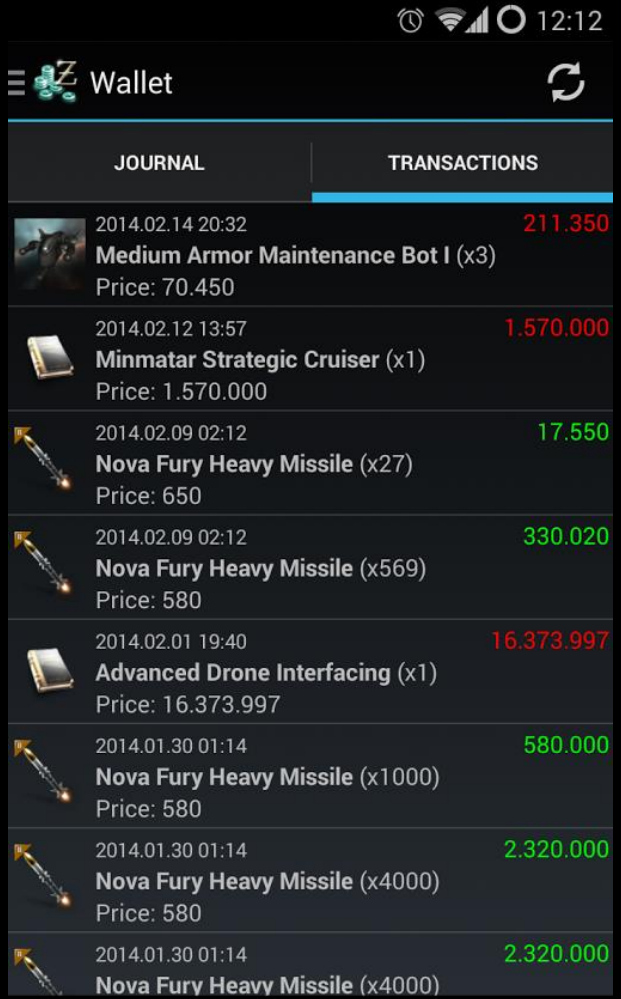
Sometimes third-party developers do things better than we do and we should embrace that.

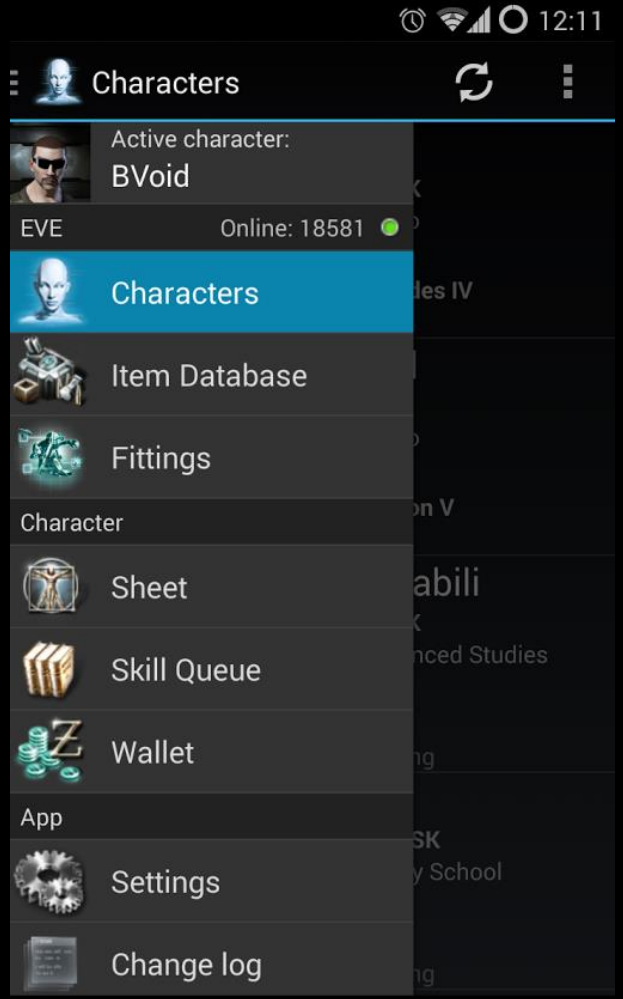
Mobile phones for you

Mobile phones for you

- EVE Online has zero mobile resources

Mobile phones for you


12:12
Wallet
JOURNAL
TRANSACTIONS
2014.02.14 20:32
211.350
Medium Armor Maintenance Bot I (x3)
Price: 70.450
2014.02.12 13:57
1.570.000
Minmatar Strategic Cruiser (x1)
Price: 1.570.000
2014.02.09 02:12
17.550
Nova Fury Heavy Missile (x27)
Price: 650
2014.02.09 02:12
330.020
Nova Fury Heavy Missile (x569)
Price: 580
2014.02.01 19:40
16.373.997
Advanced Drone Interfacing (x1)
Price: 16.373.997
2014.01.30 01:14
580.000
Nova Fury Heavy Missile (x1000)
Price: 580
2014.01.30 01:14
2.320.000
Nova Fury Heavy Missile (x4000)
Price: 580
2014.01.30 01:14
2.320.000
Nova Fury Heavy Missile (x4000)

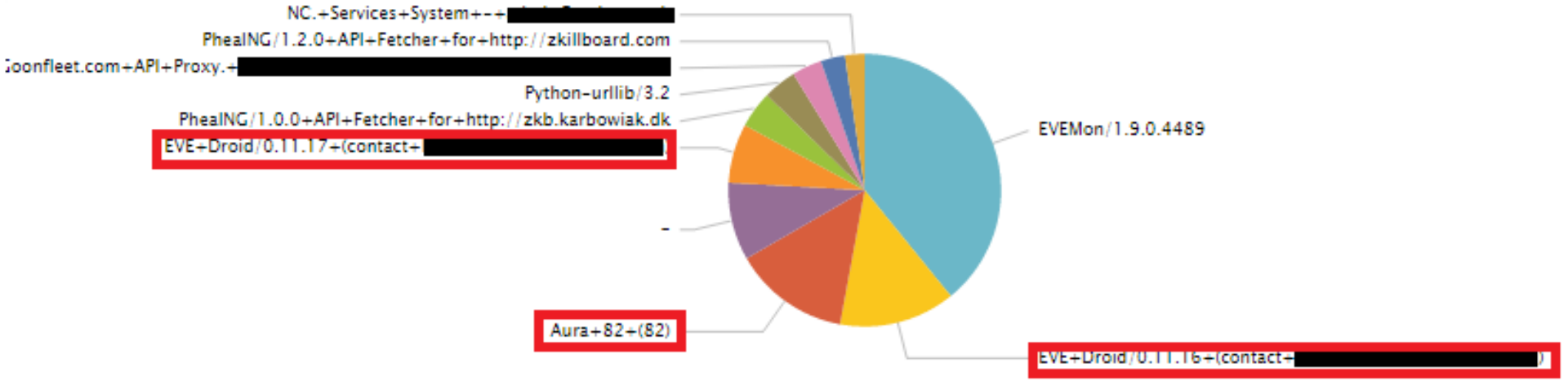

12:11
Characters
Active character:
BVoid
EVE
Online: 18581
Characters
Item Database
Fittings
Character
Sheet
Skill Queue
Wallet
App
Settings
Change log

20:07
Anshar
ATTRIBUTES
PREREQUISITES
DESCRIPTION
DETAILS FOR
Prereqs time: 87d 4h 25m 27s
PRIMARY SKILL REQUIRED
Gallente Freighter IV
Advanced Spaceship Command V
Spaceship Command V
Gallente Industrial III
Spaceship Command III
SECONDARY SKILL REQUIRED
Jump Freighters I
Industry V
Advanced Spaceship Command IV
Spaceship Command V

12:23
Caracal
PvP
MODULES
STATS
Scourge Fury Light Missile
71 32 41.3 km
Rapid Light Missile Launcher II
Scourge Fury Light Missile
71 32 41.3 km
Rapid Light Missile Launcher II
Scourge Fury Light Missile
71 32 41.3 km
Rapid Light Missile Launcher II
Scourge Fury Light Missile
71 32 41.3 km
Rapid Light Missile Launcher II
Scourge Fury Light Missile
71 32 41.3 km
MED
Adaptive Invulnerability Field II
1 44
Warp Disruptor II
1 44 24 km
Experimental 10MN Microwarpdrive I
150 50
Large Shield Extender II

Mobile phones for you

Top UserAgents



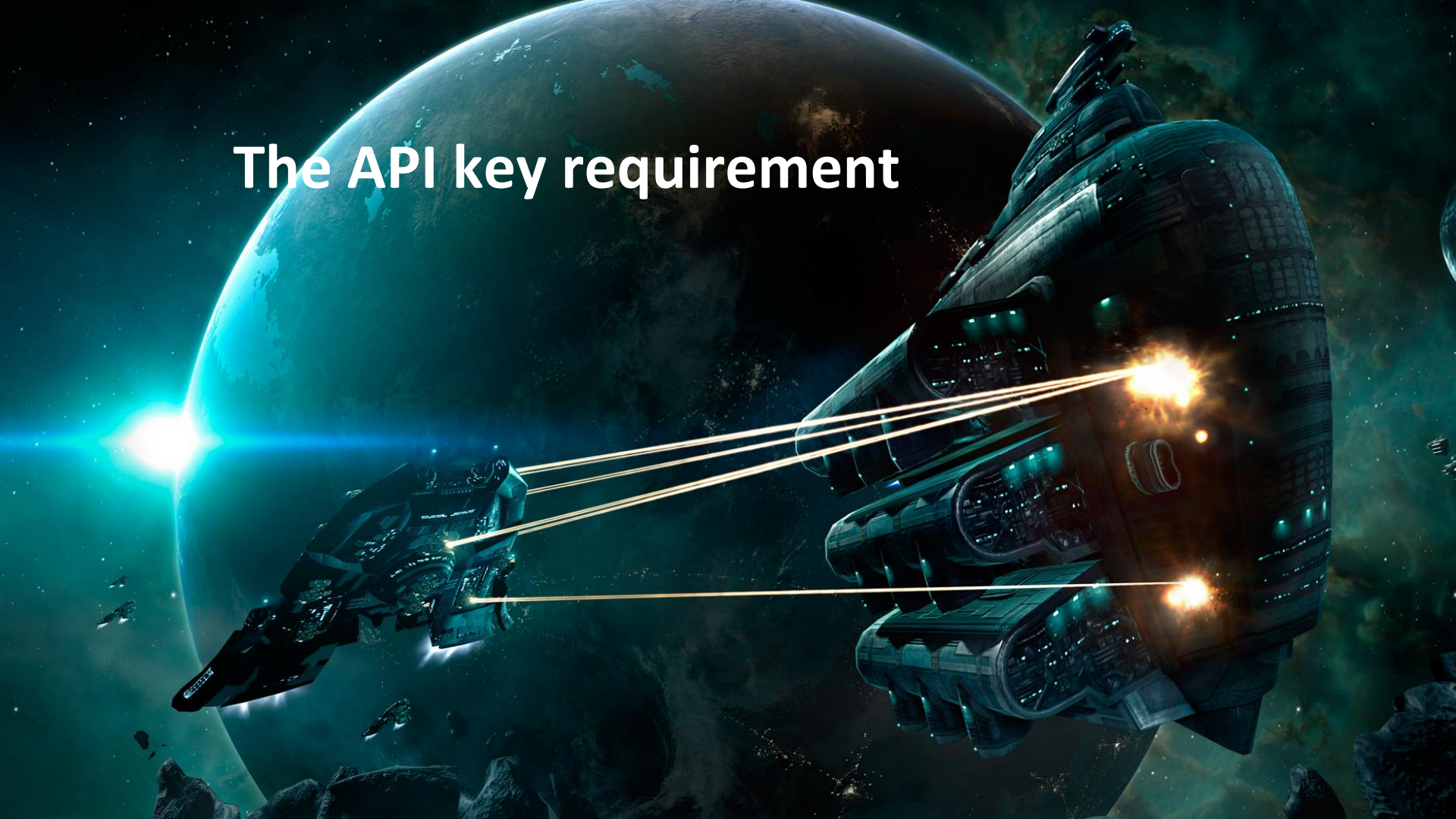
View results

~~Mobile phones for you~~

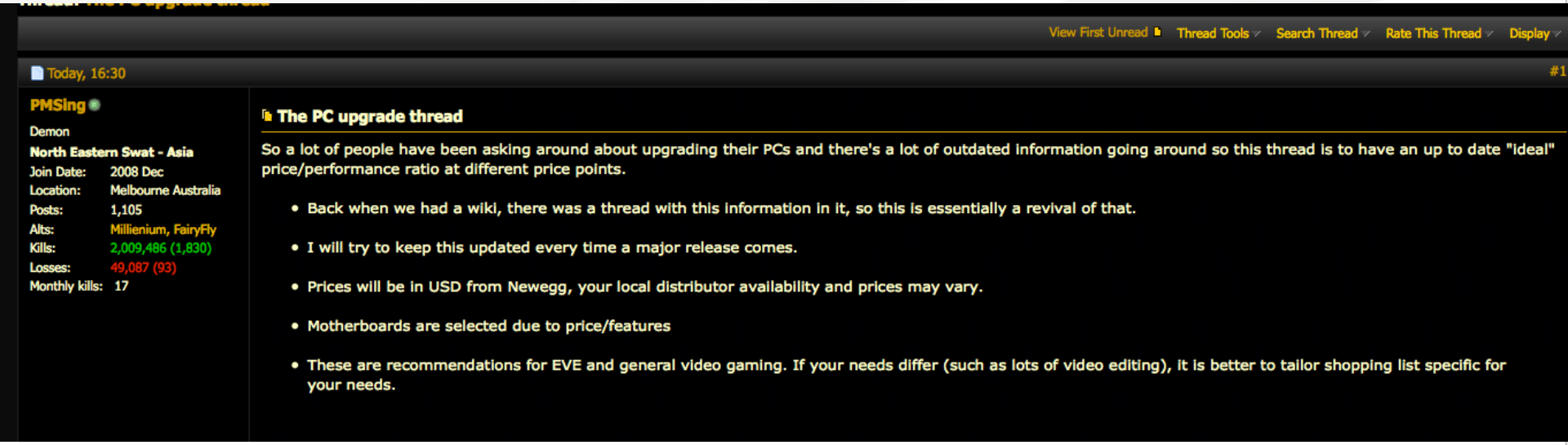
- Mobile phones
- Smart watches
- Google Glass
- Robots
- Whatever comes next

They will take your game to places you don’t even know exist.

Those where some of the benefits…


The API key requirement

The API key requirement



View First Unread | Thread Tools | Search Thread | Rate This Thread | Display

Today, 16:30 #1

PMSing

Demon

North Eastern Swat - Asia

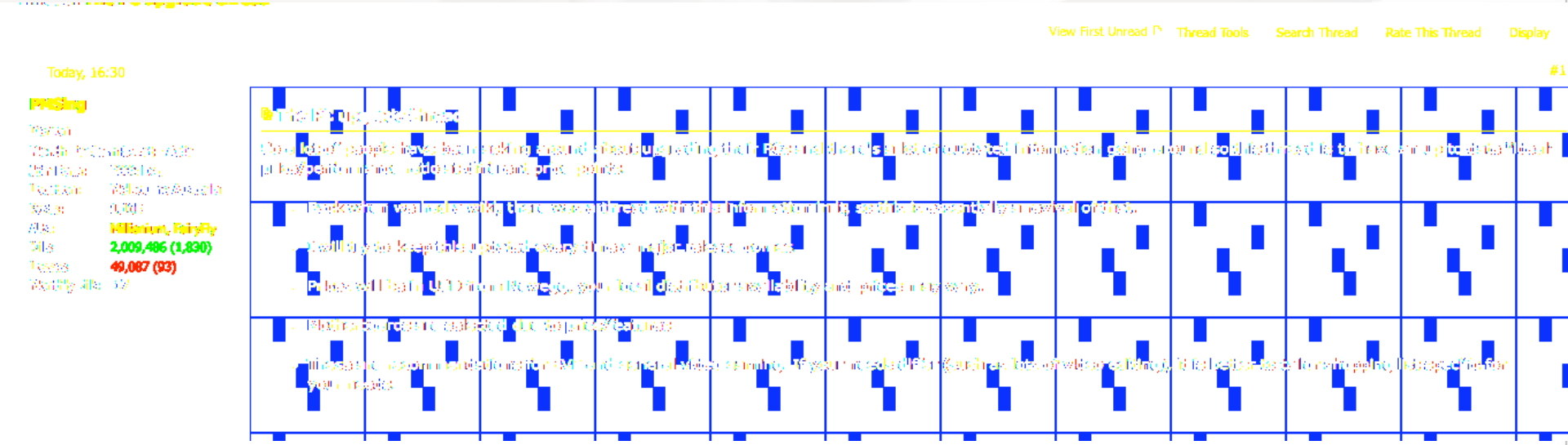
Join Date:	2008 Dec
Location:	Melbourne Australia
Posts:	1,105
Alts:	Millienium, FairyFly
Kills:	2,009,486 (1,830)
Losses:	49,087 (93)
Monthly kills:	17

The PC upgrade thread

So a lot of people have been asking around about upgrading their PCs and there's a lot of outdated information going around so this thread is to have an up to date "ideal" price/performance ratio at different price points.

- Back when we had a wiki, there was a thread with this information in it, so this is essentially a revival of that.
- I will try to keep this updated every time a major release comes.
- Prices will be in USD from Newegg, your local distributor availability and prices may vary.
- Motherboards are selected due to price/features
- These are recommendations for EVE and general video gaming. If your needs differ (such as lots of video editing), it is better to tailor shopping list specific for your needs.

The API key requirement



The API key requirement

JOINING A GUILD IN MOST MMOS:
I LIKE TO STAB THINGS!
WHAT?! US TOO! WELCOME ABOARD!

WWW.CAD-COMIC.COM

The API key requirement

Players should not have to download an application just to be competitive at EVE.

The API key requirement

- Talk about what you are going to expose.

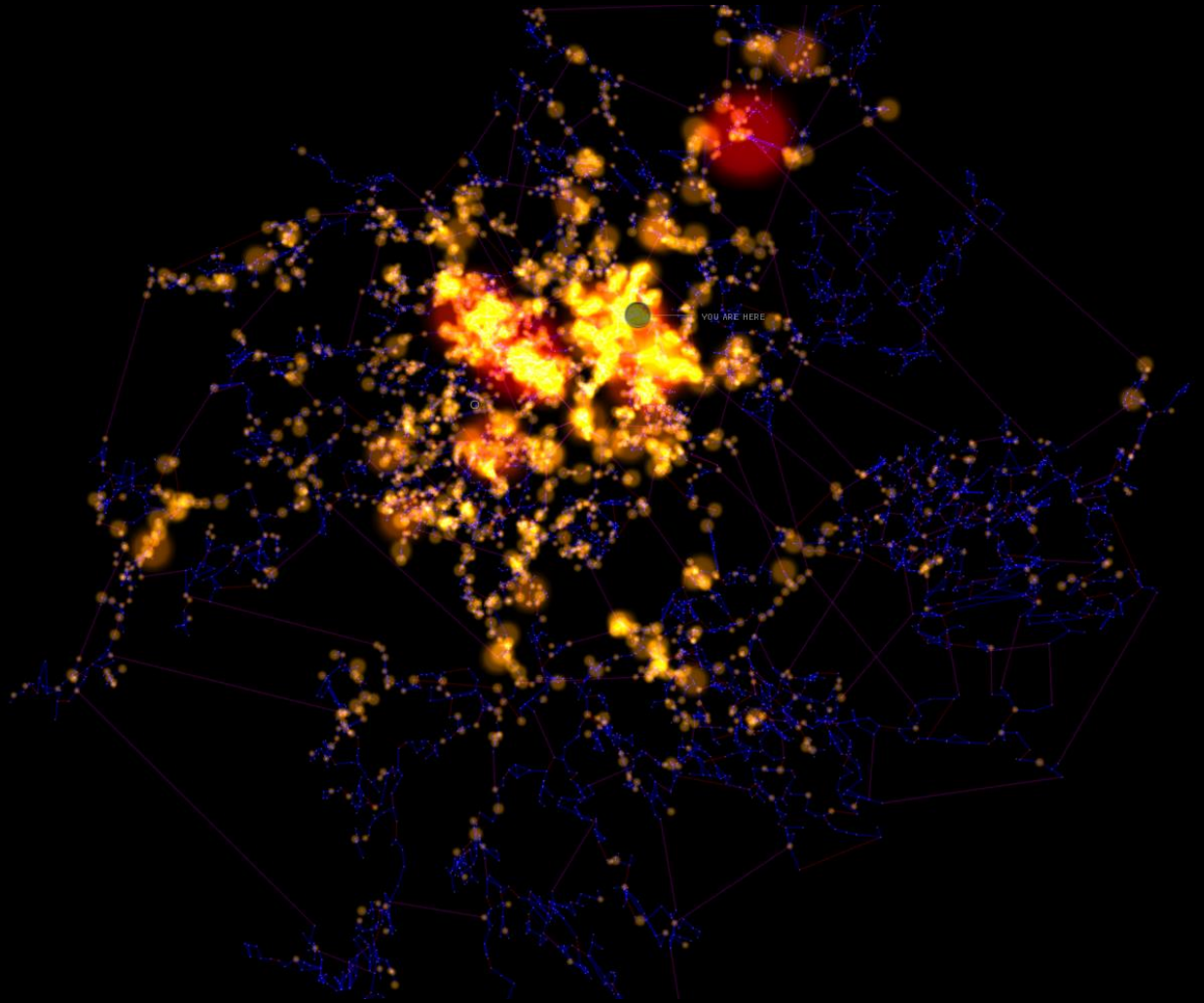
The API key requirement

- Talk about what you are going to expose.
- Put it out on a test server first.

The API key requirement

- Talk about what you are going to expose.
- Put it out on a test server first.
- Watch it’s usage and be prepared to take action.

The forgotten data


YOU ARE HERE

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<row solarSystemID="30000596" shipKills="0" factionKills="14" podKills="0"/>
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<row solarSystemID="30003087" shipKills="1" factionKills="0" podKills="0"/>
<row solarSystemID="30005194" shipKills="1" factionKills="82" podKills="0"/>
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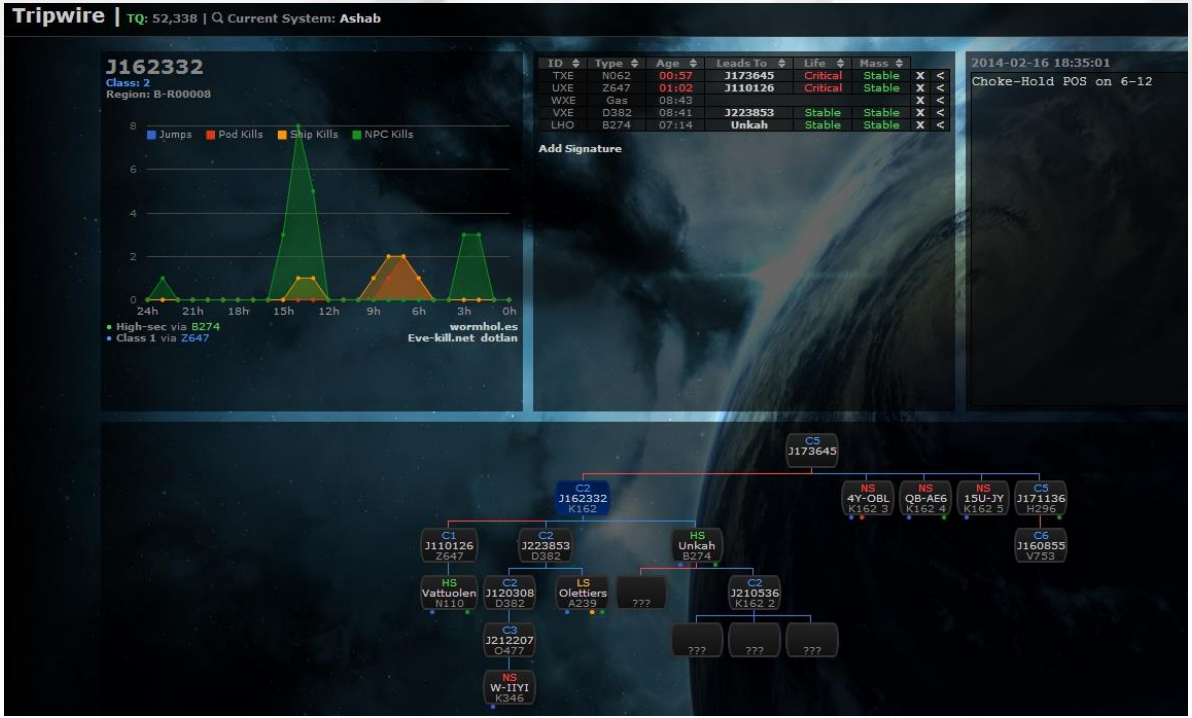
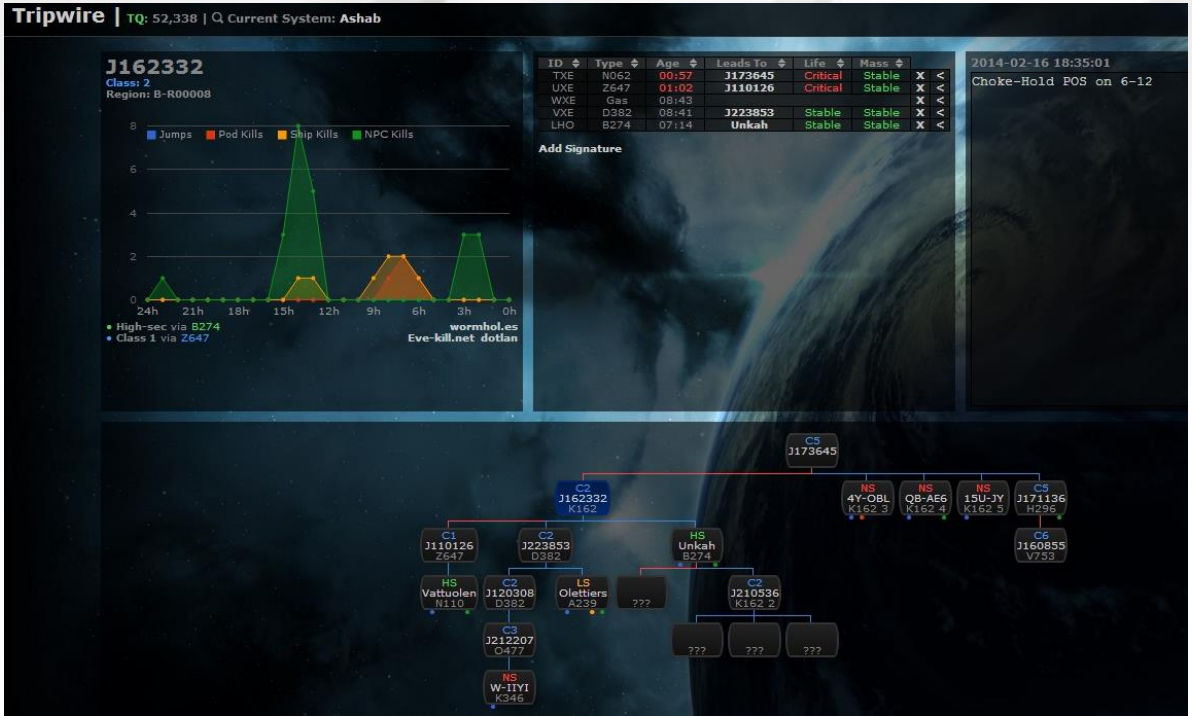
<row solarSystemID="30005294" shipKills="0" factionKills="88" podKills="0"/>
<row solarSystemID="30001799" shipKills="0" factionKills="101" podKills="0"/>

WORMHOLE: INFORMATION
WORMHOLE U210
WORMHOLE U210 8 M
DESCRIPTION
An unstable wormhole, deep in space. Wormholes of this kind usually collapse after a few days, and can lead to anywhere.
This wormhole seems to lead into null security space.
This wormhole is reaching the end of its natural lifetime.
This wormhole has not yet had its stability significantly disrupted by ships passing through it.

The forgotten data



The forgotten data



The forgotten data

No information should be available in the API that can not be found in the client.

The forgotten data

Feature teams should consider the API part of the development process.

Conclusions

Conclusions

- Third-party developers can help with all the uses cases you don’t have time for.

Conclusions

- Third-party developers can help with all the uses cases you don’t have time for.
- Third-party developers are more than happy to help, empower them to do so.

Conclusions

- Third-party developers can help with all the uses cases you don’t have time for.
- Third-party developers are more than happy to help, empower them to do so.
- Think of what you expose as another part of your development process.

Questions?

Contact info:

- Email: regnerba@gmail.com
- Twitter: @regnerba