

船连国家

115艘，30艘有指入的ownership，15艘可以找到

直接和人相连：

	source	target	link_type	weight	source_type	source_country	target_type	target_country
3223	Dana Goodwin	19	ownership	0.935461	person	Marebak	vessel	NaN
3228	Dana Goodwin	USCGC	ownership	0.828149	person	Marebak	vessel	NaN
5748	Andre Phillips	USCGâ€ s	ownership	0.880115	person	Country_271835	vessel	NaN
5749	Andre Phillips	CutterOliverHenry	ownership	0.845132	person	Country_271835	vessel	NaN
6407	Madison Franklin	bottom	ownership	0.896293	person	Country_271835	vessel	NaN
6410	Madison Franklin	Rapido beam trawler	ownership	0.976632	person	Country_271835	vessel	NaN
7380	Rebecca Caldwell	ocean	ownership	0.824237	person	Oceanus	vessel	NaN
8913	Sarah Williams	Kenworth 18-wheeler	ownership	0.836954	person	Country_271835	vessel	NaN
9306	Christopher Cunningham	bottom	ownership	0.896017	person	Oceanus	vessel	NaN

直接和公司相连：

	source	target	link_type	weight	source_type	source_country	target_type	target_country
1498	png xi Line	19	ownership	0.803236	company	Country_628643	vessel	NaN
5448	Caracola Azul Limited Liability Company	shrimper	ownership	0.847881	company	Ariuzima	vessel	NaN

二阶连公司：

Country_628643

png xi Line-->7505050-->Leng 999 Gal

png xi Line-->7505050-->Ships

Nalakond

Spanish Shrimp Carriers-->160-->Oliver

二阶连人：

Country_470077

Christopher Fields-->Sonia Fisheries Pvt-->salmon

Country_358951

Monica Ramirez-->341411-->cutters

三阶连人：

Country_271835

Tracy Rogers -->55674-->21538-->Cutters

多人情况：（斜体是船）

多人-->Ocean Fisheries Llc-->Leng 999 Gal

多人的国家情况：

Country_271835	Nalakond	Country_459036	Country_542476	Country_246944
7	1	1	1	1

可疑点直连边类型

	979893388	8327	Mar de la Vida OJSC	Oceanfront Oasis Inc Carriers
family_relationship	67		2	2
membership	59	8	10	1
partnership	45	2	4	
ownership	22	5	1	1

可疑点直连船

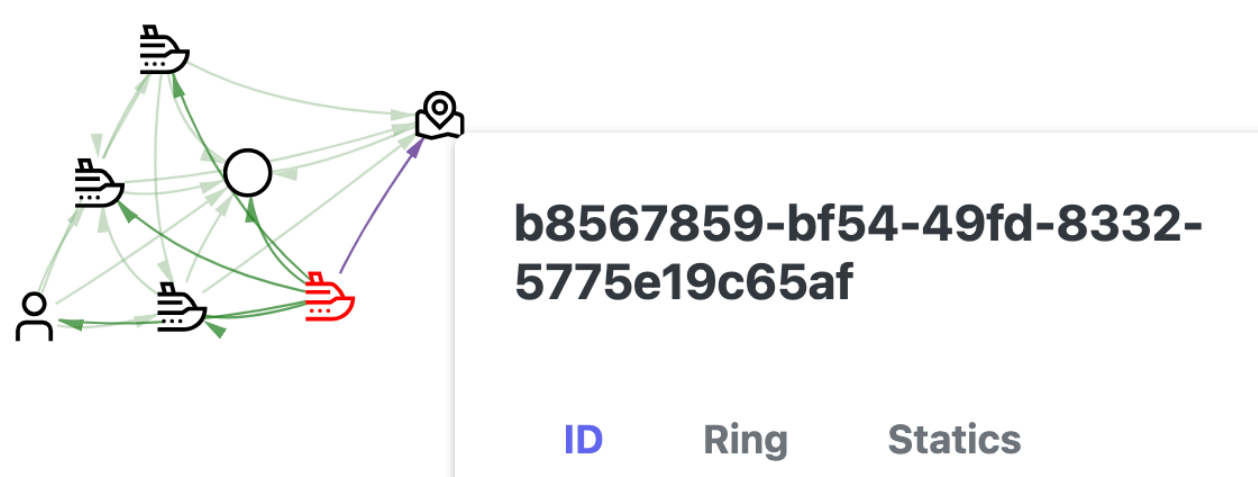
(8327,membership,water) (8327,ownership,cutters) (Coast,ownership,8327)

(979893388,partnership,ARA Contraalmirante Cordero)

一些可疑模式

就是会有一堆自己成强连通分量的，但是因为一两条边或一两个节点的连接而和最大的强连通分量（可疑点在的）有了连接

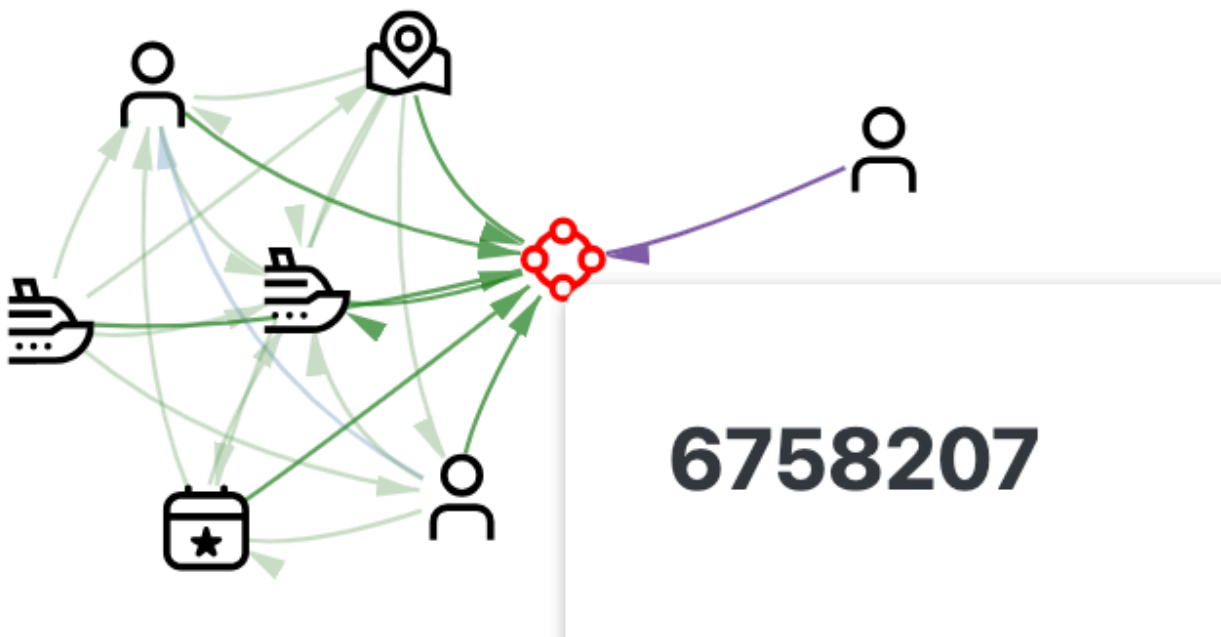
1. FV家族的船，通过b8location (FV和FV Thunder) 和Amanda Mckenzie (FV Thunder, FV Snake)连到了3388



一些场外信息（但也不能用就是） iuu vessel list

FV Viking IMO No.8713392	Nigeria	Unknown	Sunk by Indonesia in 2016
FV Asian Warrior IMO No. 7322897	St Vincent and the Grenadines	Unknown	Arrested in Dakar Senegal
FV Perlon IMO No.5062479	Nigeria	Unknown	Released from detention in Malaysia in August 2015.
FV Thunder IMO No.6905408	Nigeria	6 April 2015	Sank in April 2015. Spain issued fines in 2016 and initiated disciplinary proceedings against owners in August 2017.
FV Pescacinsne 1,	Equatorial guinea	19 February 2015	Unknown

2. 同样也是一群partnership，通过abigial foster那个人和3388产生了联系
 其中的船叫Abrams MIA2和MBTs， event是Tank
 fyi：现实中这两个船的名字都是坦克的型号。。



3. 通过一个公司，一堆memebership和一堆partnership和3388联系上了
 公司叫Benton Ltd. Liability Co，政府组织704， ownership那两条的undefined是： American🤔

