

Inspector Michael Gubbins
An Garda Síochána
Computer Crime Investigation Unit

Association for Criminal Justice
Research and Development Ltd
(ACJRD)

Thursday 10th December 2015

Computer Crime Investigation Unit

Garda Bureau of Fraud
Investigation

National Unit

Forensic Examinations

Cybercrime Investigation

International Liaison



Connected Life



7,27 bn
current world
population

90 bn
Google
searches
so far this year

2 mln
blog posts
written today



Tweets
sent today

423 mln



3,01 bn
Internet users
worldwide



monthly
active users

1,4 bn



7 bn
mobile
devices
worldwide

By
24 bn
total
connected
devices
12 bn



mobile connected
devices



70%
Internet
penetration in
Europe

51%
of employees connect
to unsecured wireless
networks with their
smartphones



115 bn
Emails sent today

2014 in Numbers



19%
Android users
encountered a
mobile threat

15,577,912
malicious mobile
apps worldwide



123,054,503
unique malicious
objects detected



38%
of user computers
subjected to at least
one web attack



12,100
mobile banking
Trojans

annually

Cybercrime costs
\$445 billion
or ~ **1%**
of global
income



1,432,660,467



attacks launched
from online resources

over **307** new
cyber threats every
minute, **5**
more than
every second



Current Cybercrime Activity

- CEO Fraud (Invoice re-direct)
- DDOS - DD4BC & Armada Collective
- PABX/IRSF Fraud
- Phishing

Email 1

On 2 Jul 2015, at 19:03, Sean Murphy
<Sean.Murphy@abc123.com> wrote:>> >> I
need to sort out a financial obligation
urgently. What details do i need to give you
to make a wire transfer?>> >> Sean.>> >>
Sent from my iPhone

DD4BC

Hello,

To introduce ourselves first:

[http:// report about bitcoin extortion attack by DDoS in New Zealand](#)

[http:// report about bitcoin bounty hunter](#)

[http:// report about notorious hacker group involved in excoin theft](#)

Or just google “DD4BC” and you will find more info.

So, it’s your turn!

All your servers are going under DDoS attack unless you pay 30 Bitcoin.

Pay to [bitcoin wallet](#)

Please note that it will not be easy to mitigate our attack, because our current UDP flood power is 400-500 Gbps.

Right now we are running small demonstrative attack on one of your IPs:

123.123.123.123

Don't worry, it will not be hard and will stop in 1 hour. It's just to prove that we are serious.

We are aware that you probably don't have 30 BTC at the moment, so we will wait 24 hours.

Find the best exchanger for you on [howtobuybitcoins.info](#) or [localbitcoins.com](#)

You can pay directly through exchanger to our BTC address, you don't even need to have BTC wallet.

Current price of 1 BTC is about 230 USD, so we are cheap, at the moment. But if you ignore us, price will increase.

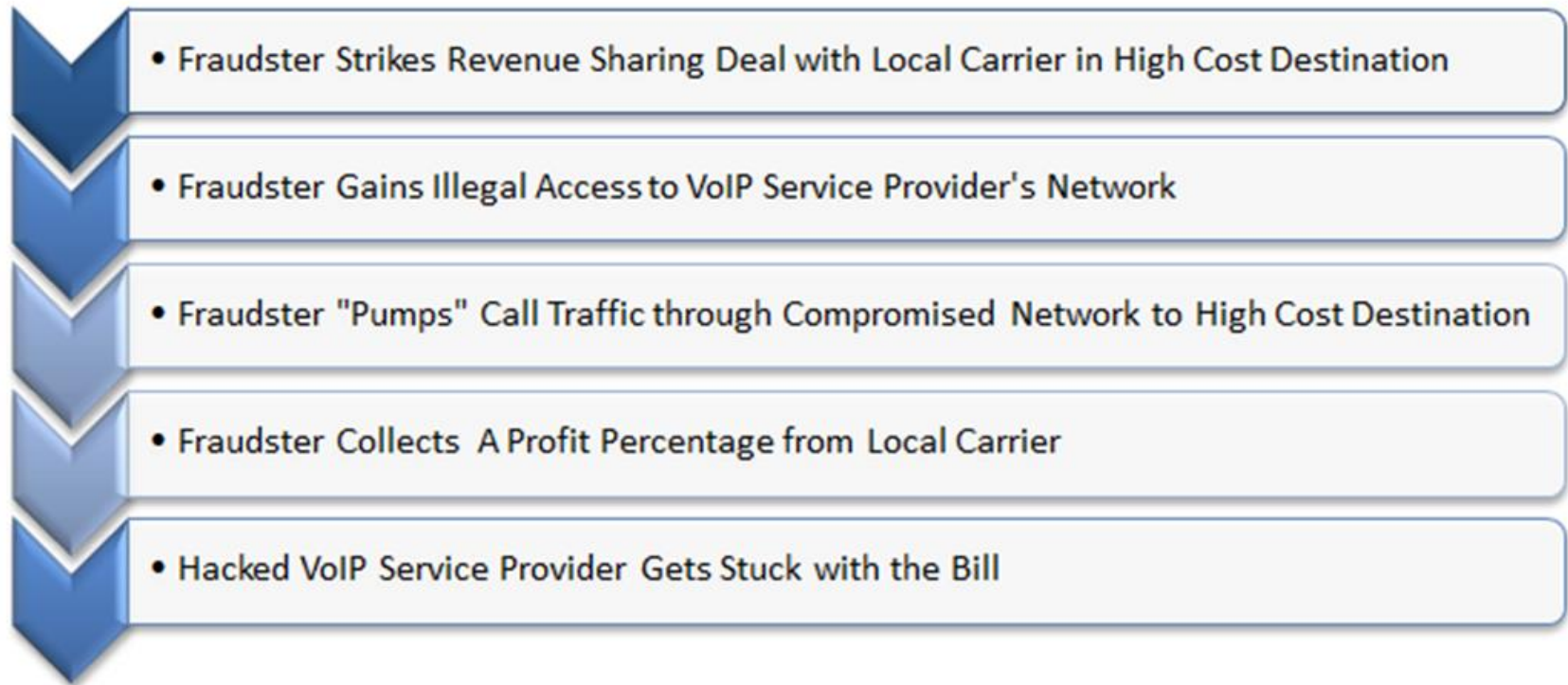
IMPORTANT: You don’t even have to reply. Just pay 30 BTC to [bitcoin wallet](#) – we will know it’s you and you will never hear from us again.

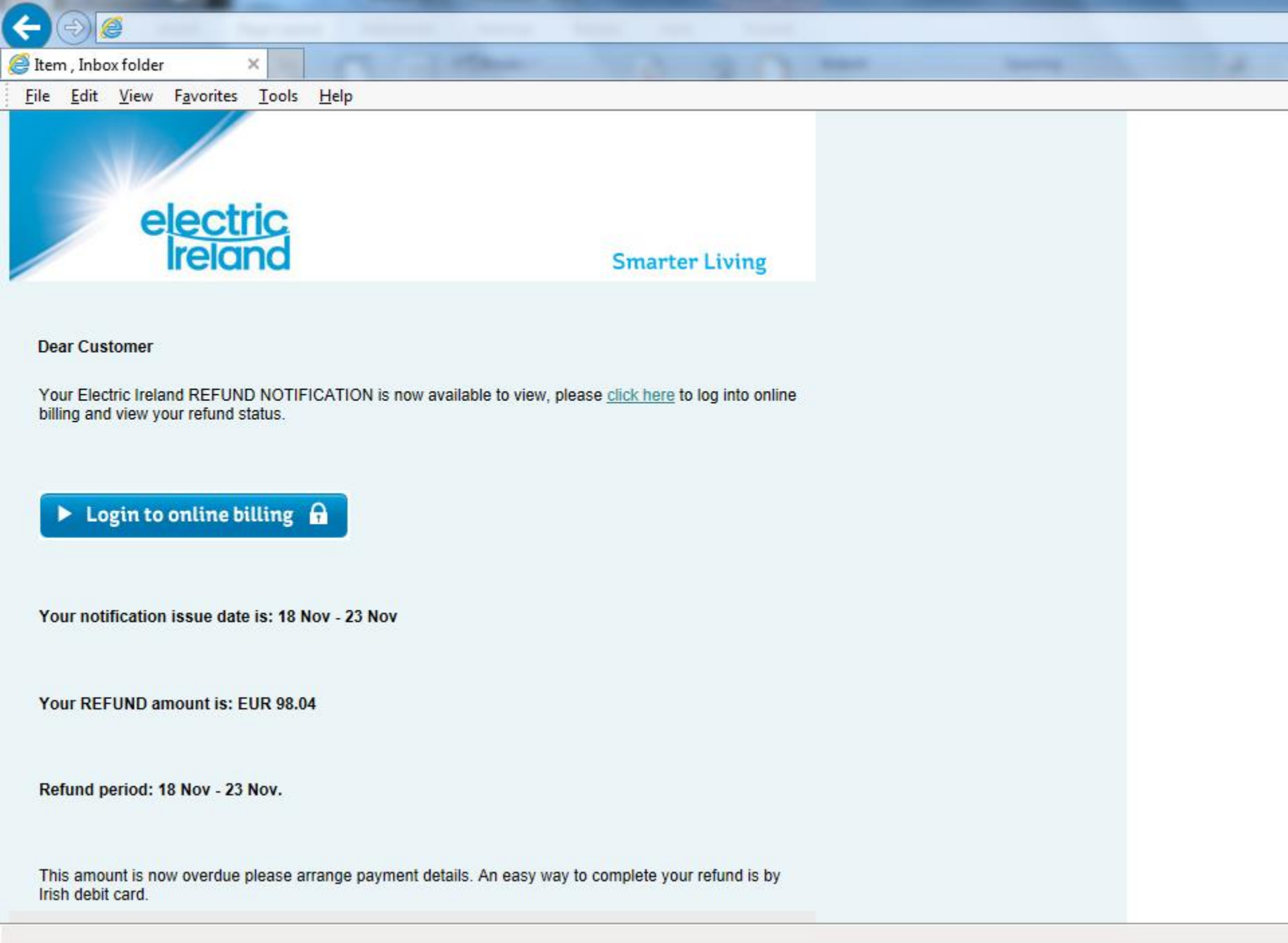
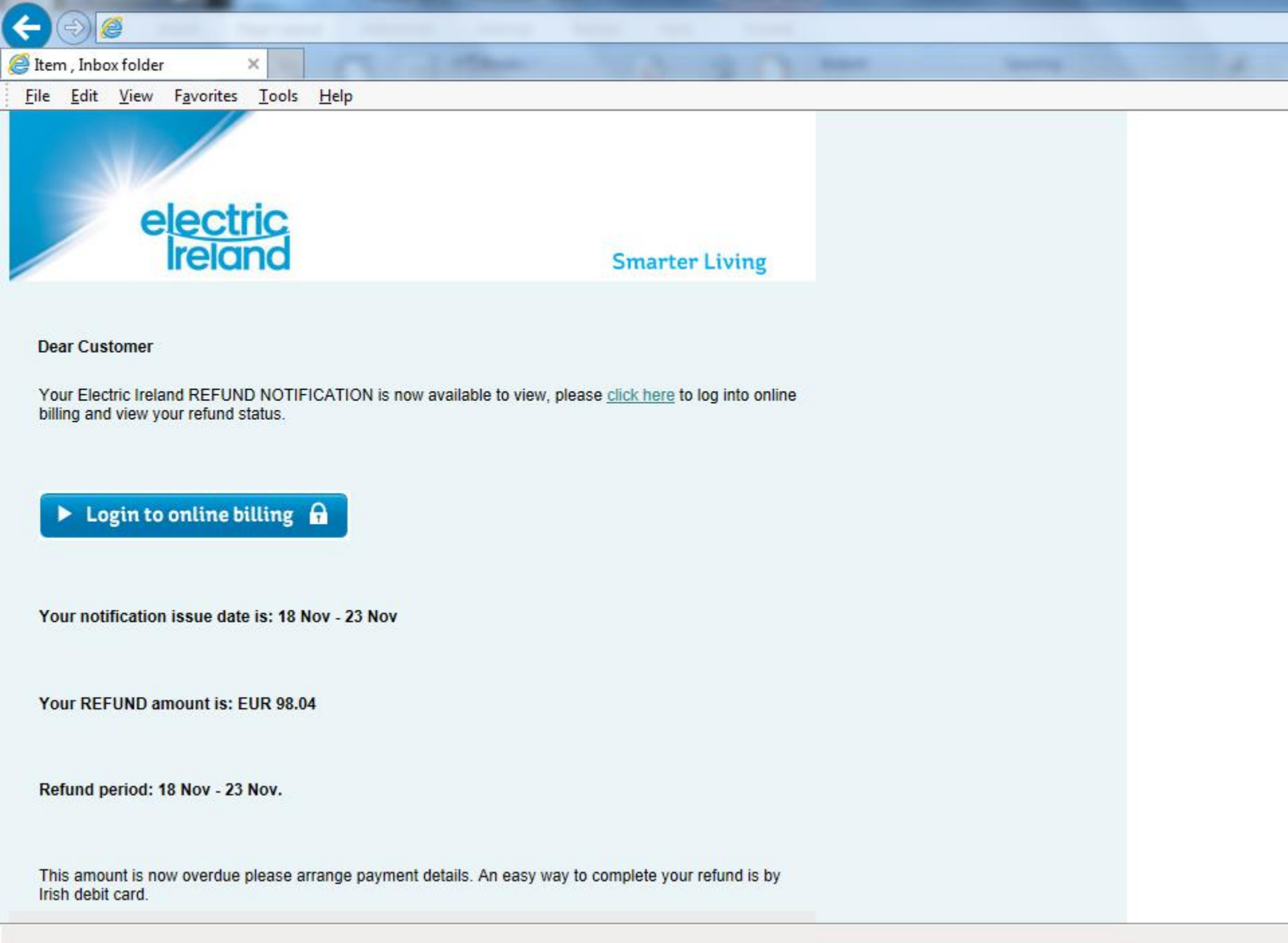
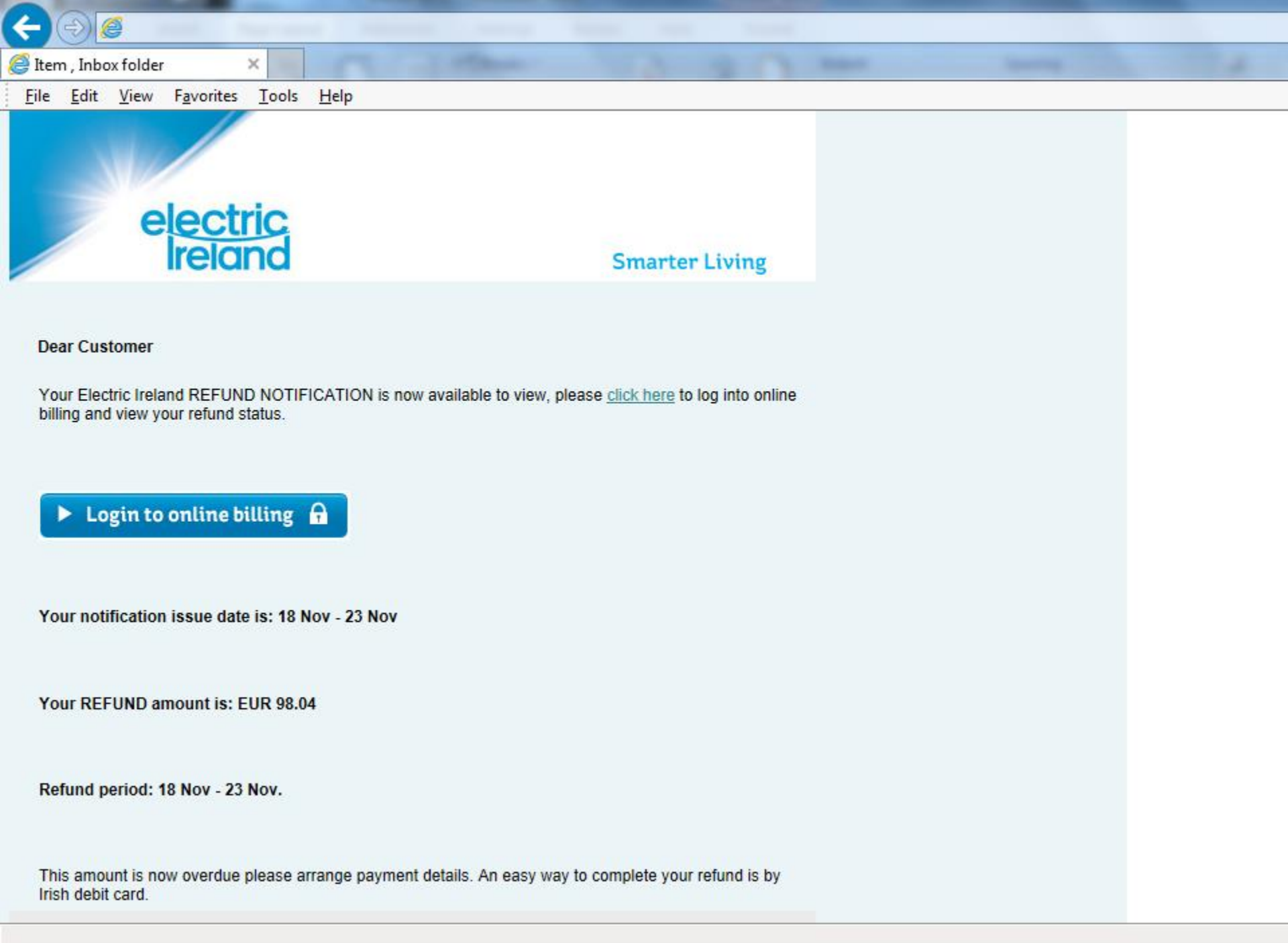
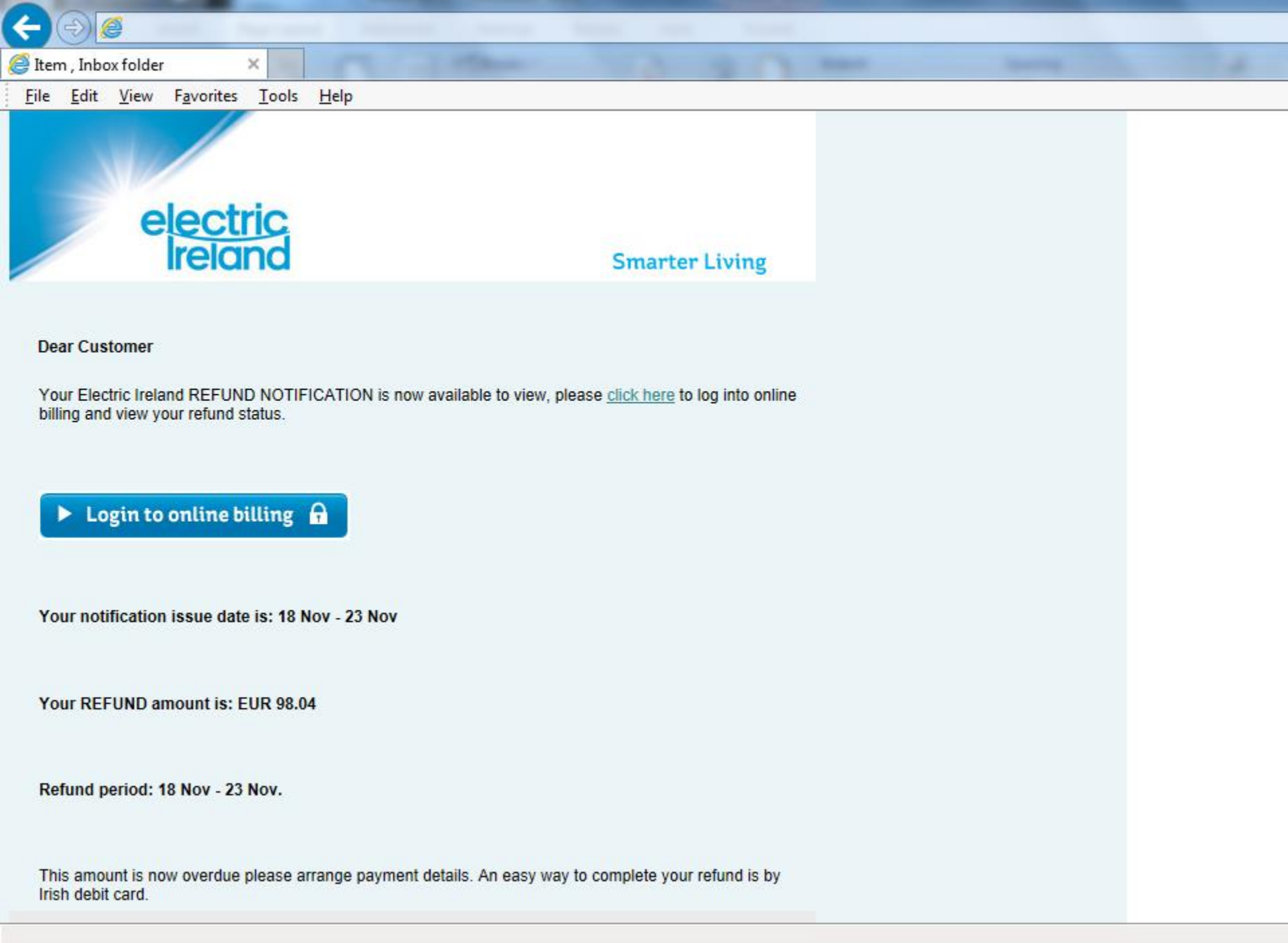
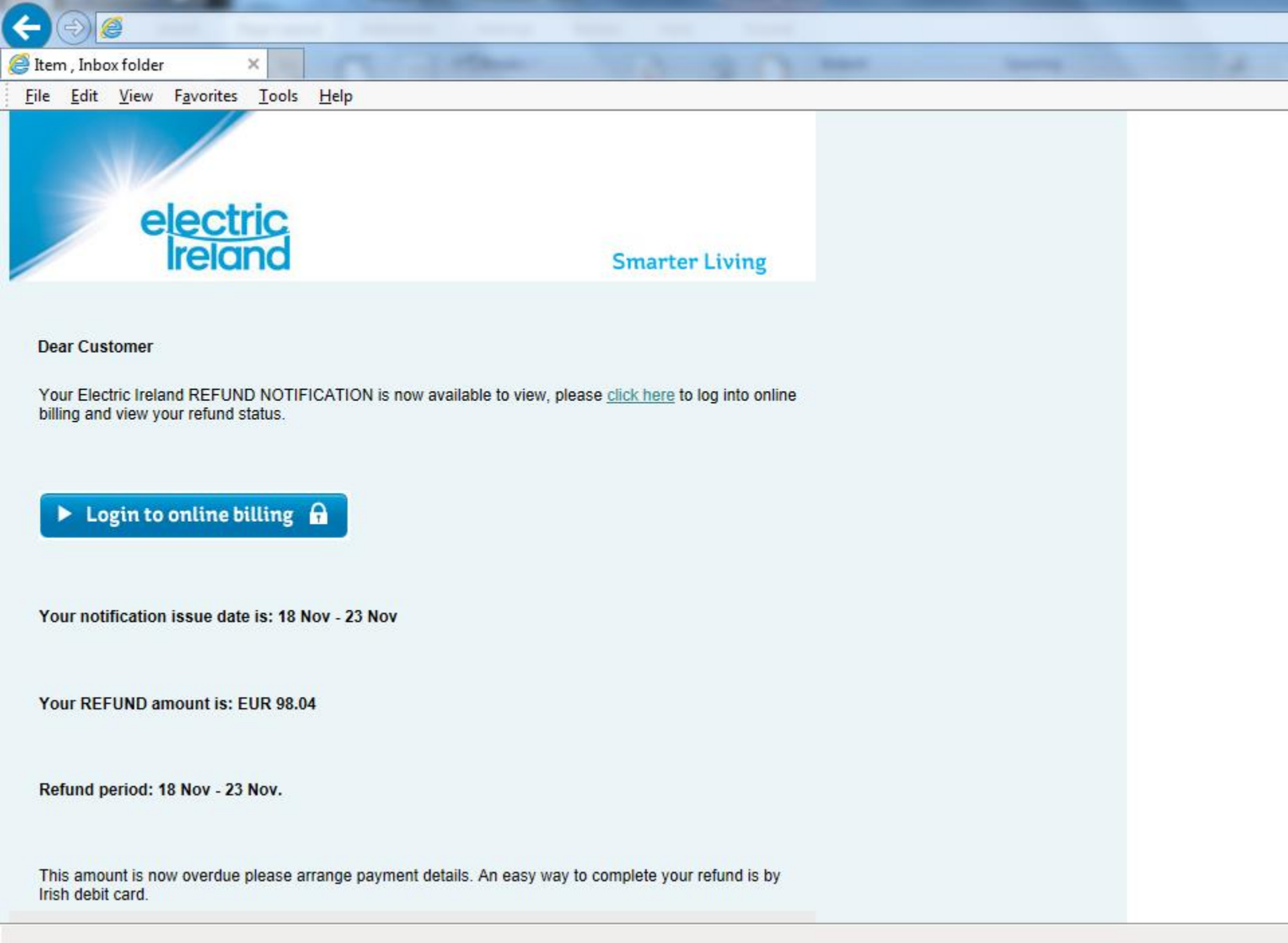
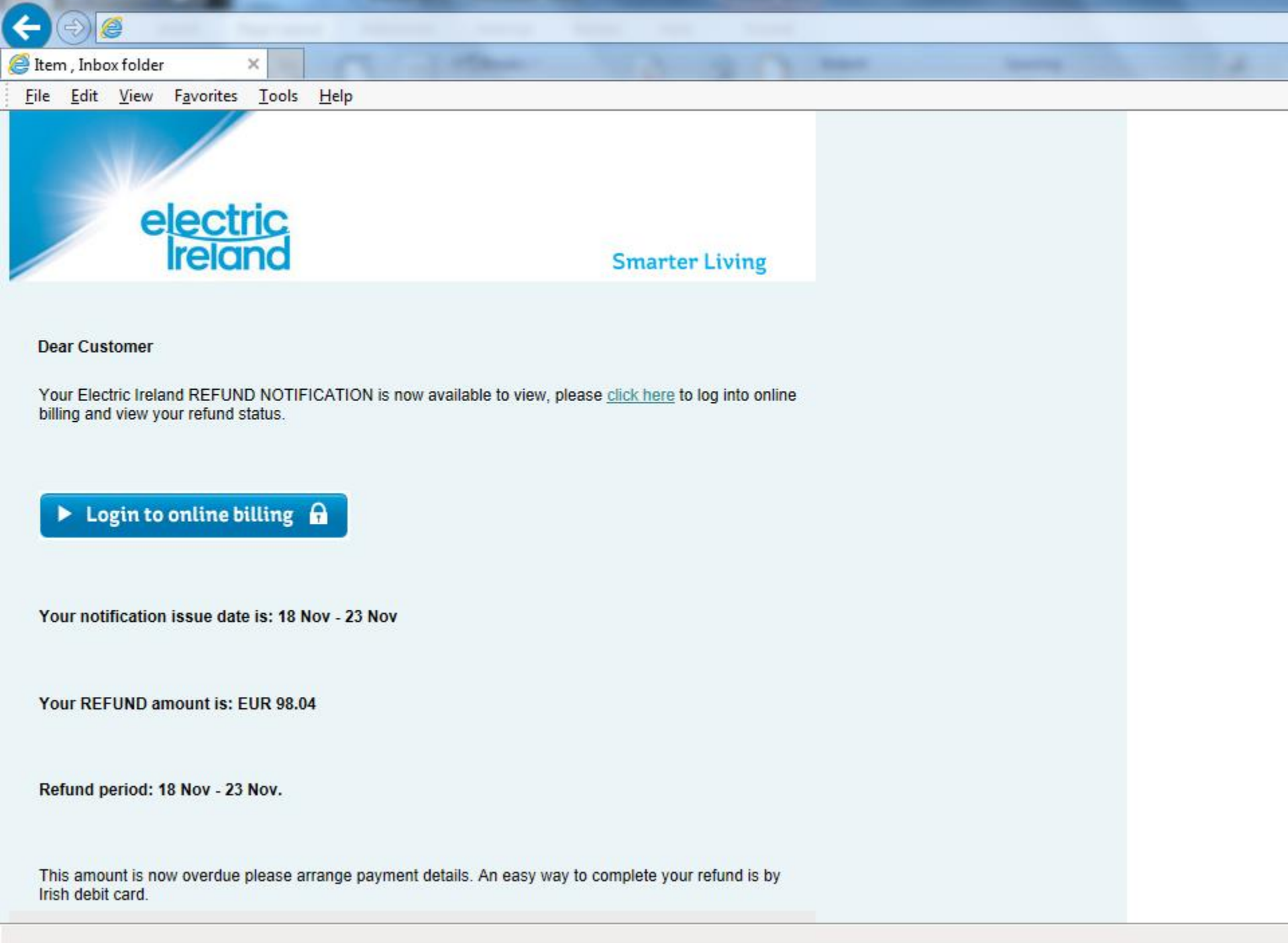
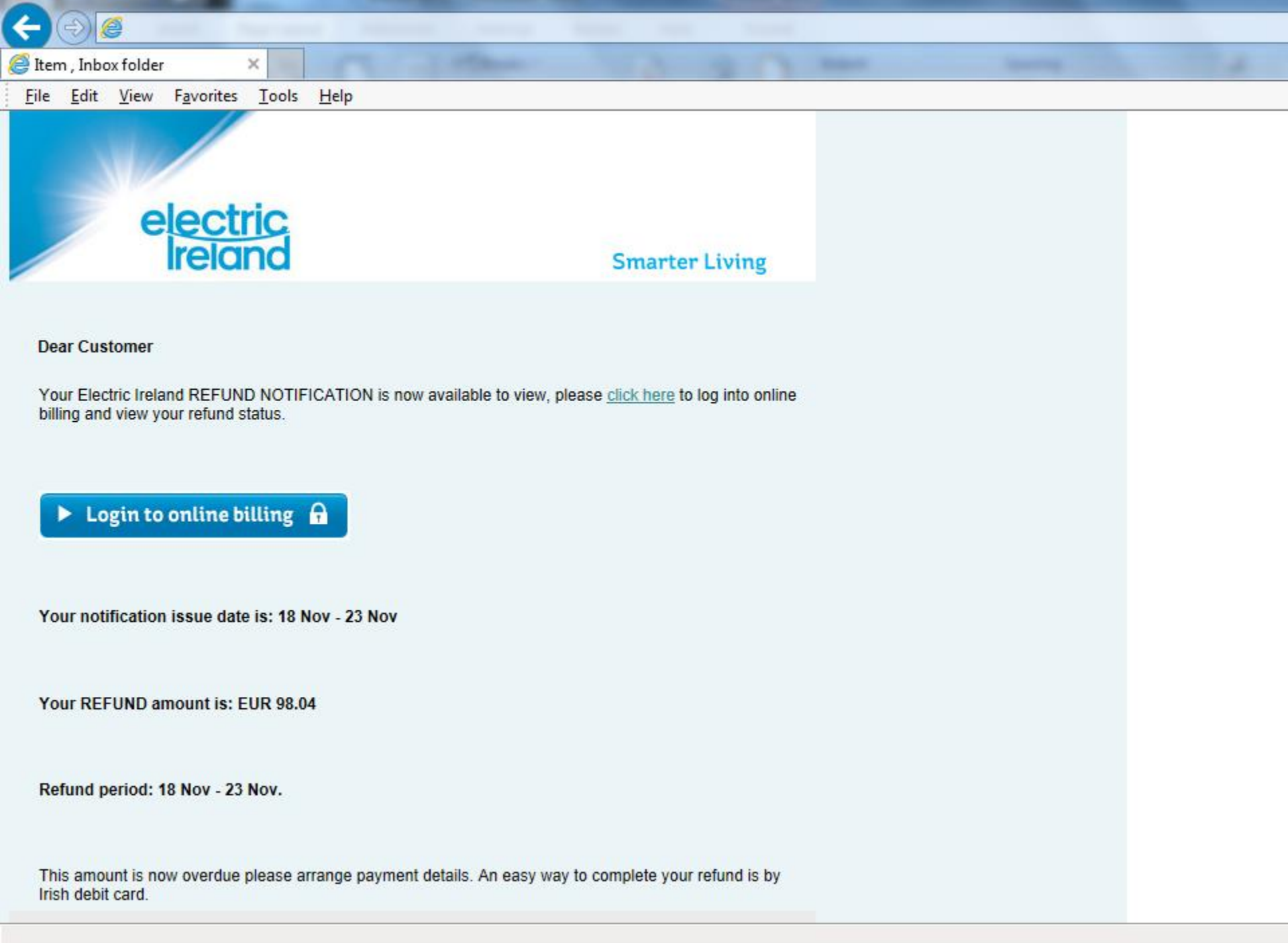
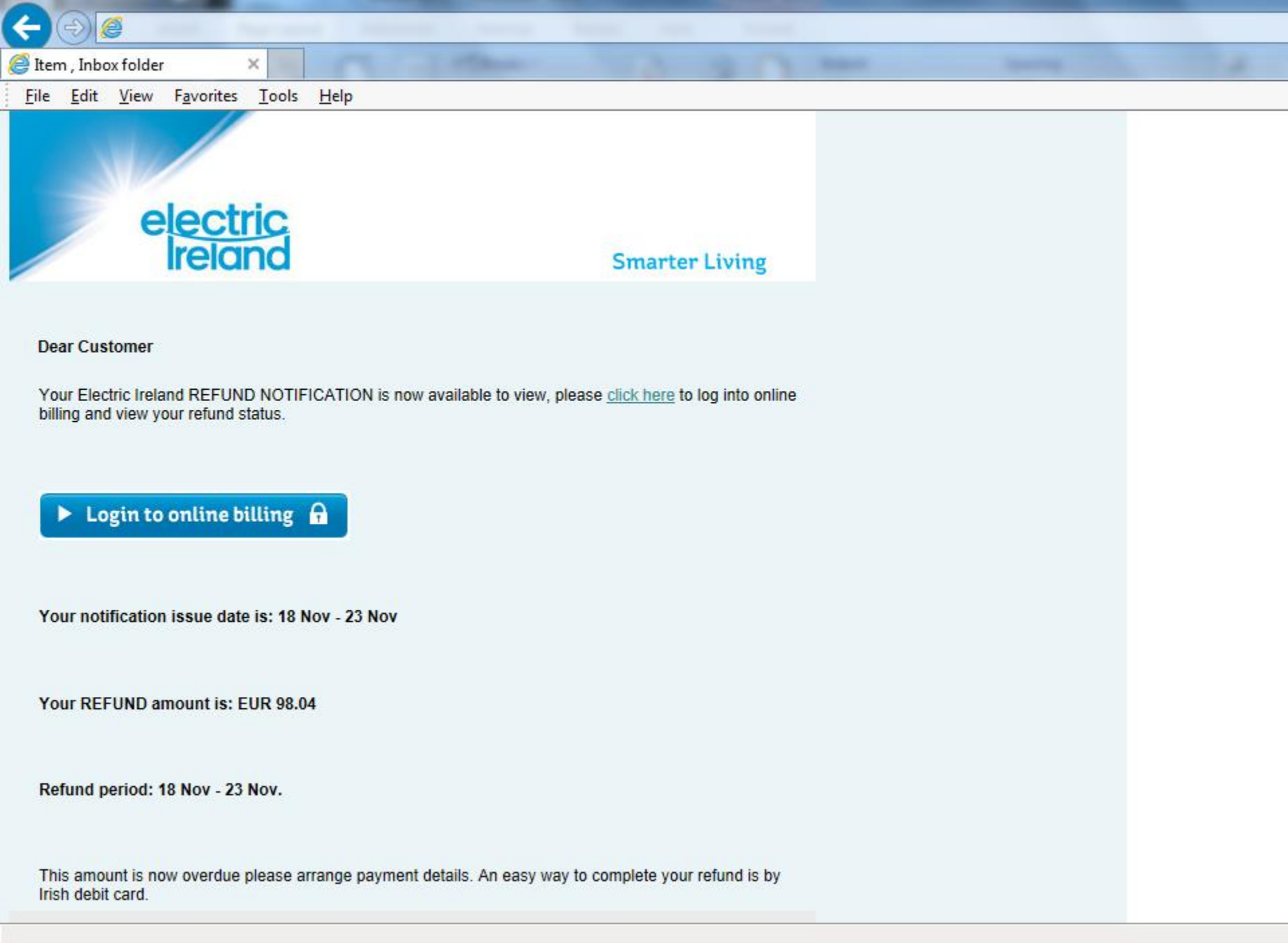
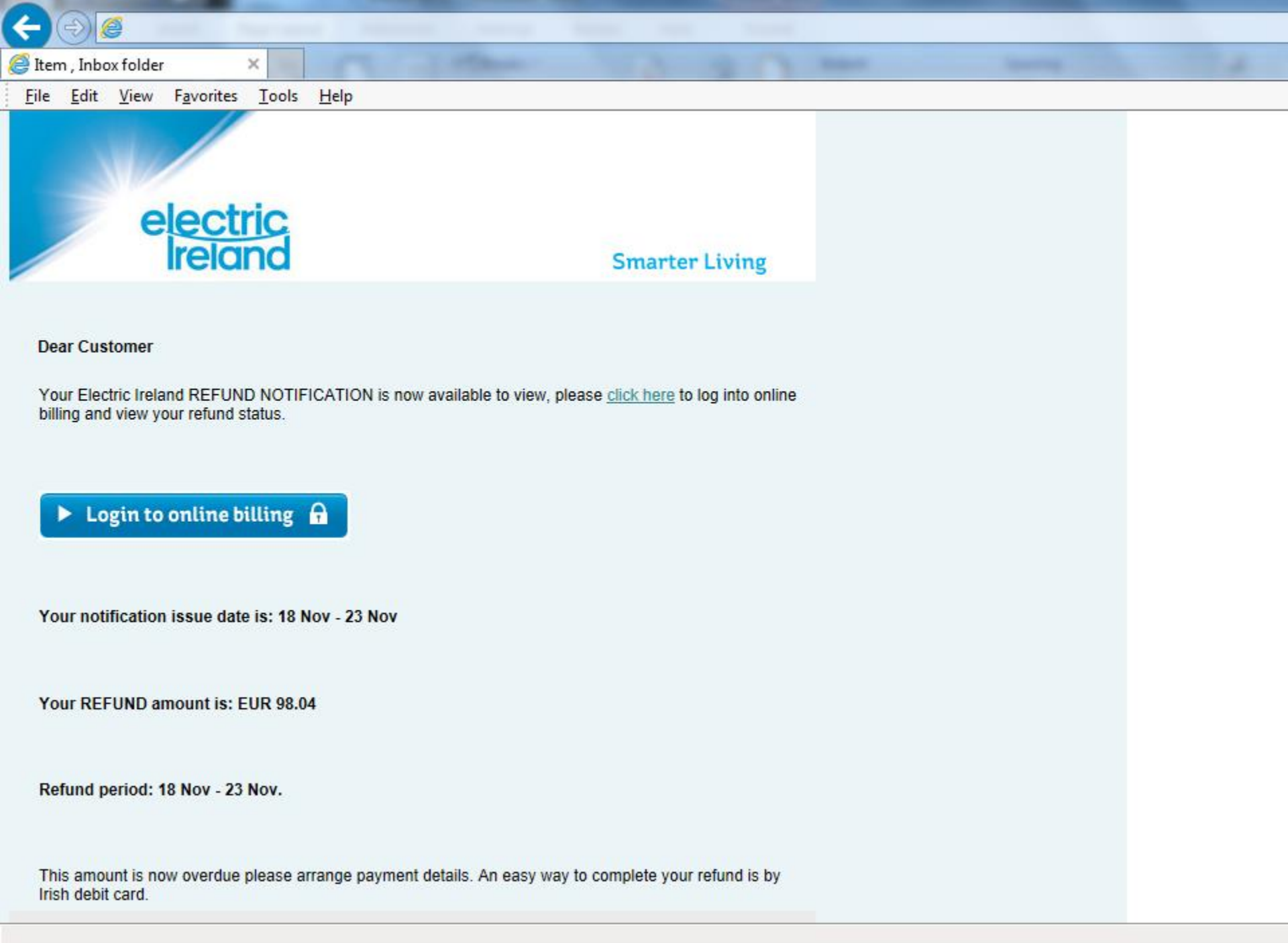
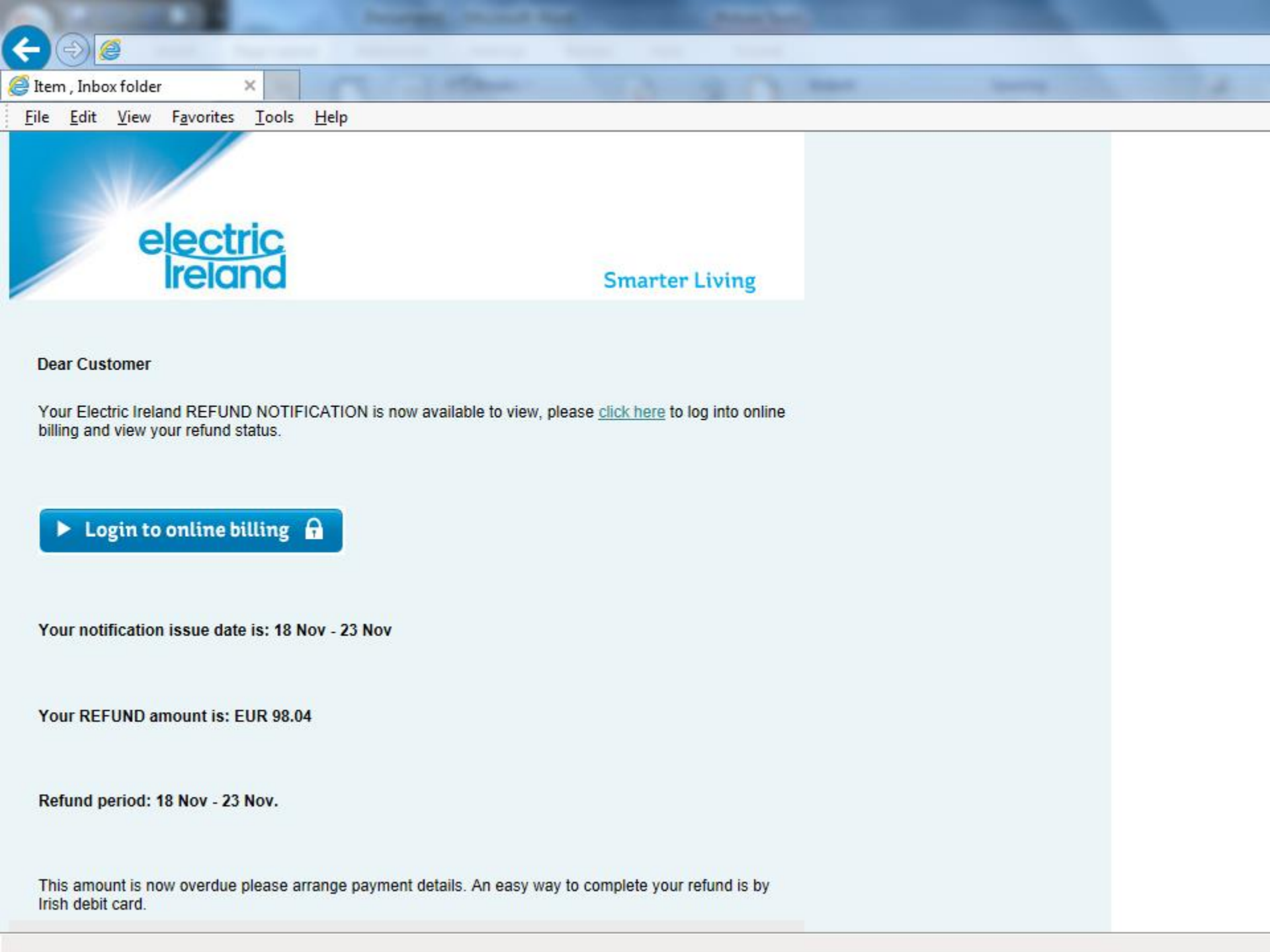
We say it because for big companies it's usually the problem as they don't want that there is proof that they cooperated.

If you need to contact us, feel free to use some free email service.

Or contact us via Bitmessage: BM-NC1jRewNdHxX3jHrufjxDsRWXGdNisY5

International Revenue Share Fraud





Internet

□ Internet

- Is a global system of interconnected computer networks
- The Internet is comprised of both Surface Web and Deep Web
- Surface Web can be defined as any content that can be indexed by a standard search engine
- Deep Web (not to be confused with Dark Web) is the World Wide Web (WWW) content which is not part of the Surface Web
 - Surface Web: only 4% of all Internet content;
 - The remaining 96% content, not indexed by search engines, belongs to the Deep Web



Surface Web

Irish Criminal Bar Association

Public & Members' Website



[Home](#) [About Us](#) [News & Events](#) [Annual Conference 2015](#) [Constitution](#) [Membership](#) [Contact](#)
[Legislation](#) [Recent Case Law](#) [CCA Case Law](#) [Supreme Court](#) [High Court](#) [ECHR](#) [Links](#)

Home ■

Welcome to the Irish Criminal Bar Association



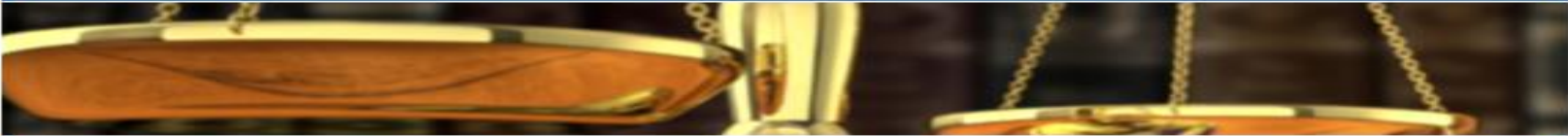
Search Posts ■

Pages ■
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[Constitution](#)
[Links](#)

Deep Web

Irish Criminal Bar Association

Public & Members' Website



Sorry, you do not have sufficient privileges to view this post. Sorry, you do not have sufficient privileges to view this post. Sorry, you do not have sufficient privileges to view this post.

Sorry, you do not have sufficient privileges to view this post. Sorry, you do not have sufficient privileges to view this post. Sorry, you do not have sufficient privileges to view this post.

Not Found

Sorry, but you are looking for something that isn't here.

Search Posts

Pages

- [Home](#)
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- [Links](#)
- [Contact](#)

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- [Members Podcasts](#)
- [Members Research](#)
- [Members Case Law](#)

DARKNET



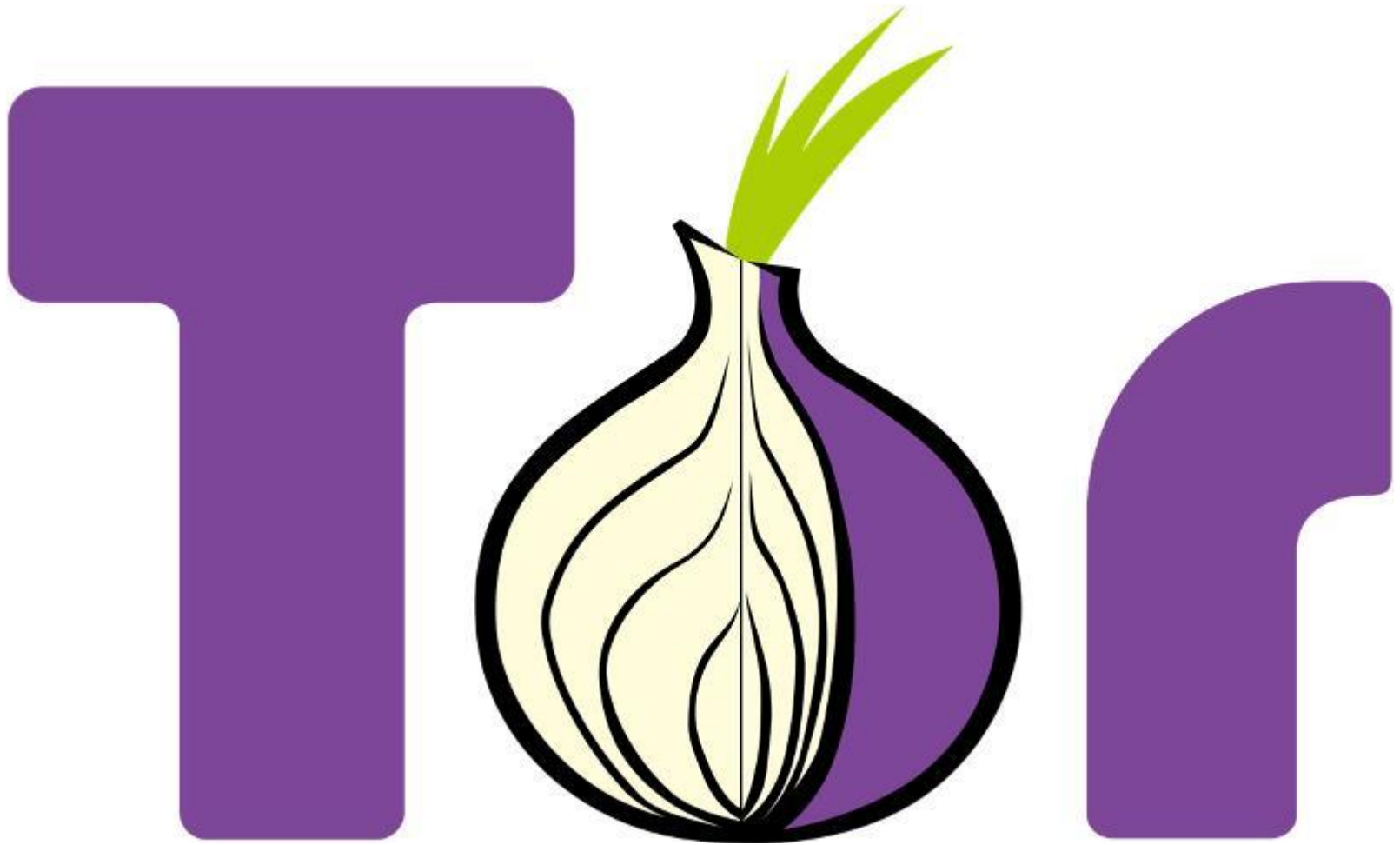
Definition of *darknet* in English:

noun

Computing

A computer network with restricted access that is used chiefly for illegal peer-to-peer filesharing.

The onion router



About Tor

- The core principle of Tor, "onion routing", was developed in the mid-1990s by U.S. Naval Research Laboratory
- Free software – anonymous communication
- Volunteer network > 6000 relays
- Conceals user's location & usage
- Onion routing is implemented by encryption in the application layer of a communication protocol stack, nested like the layers of an onion, used to anonymise communication.
- Tor encrypts the original data, including the destination IP address, multiple times and sends it through a virtual circuit comprising successive, randomly selected Tor relays.
- Each relay decrypts a layer of encryption to reveal only the next relay in the circuit in order to pass the remaining encrypted data on to it. The final relay decrypts the innermost layer of encryption and sends the original data to its destination without revealing, or even knowing, the source IP address.

About Tor continued

.onion:

- onion is a domain host suffix designating an anonymous hidden service reachable via the Tor network.

- The purpose of using such a system is to make both the information provider and the person accessing the information more difficult to trace, whether by one another, by an intermediate network host, or by an outsider.

- .onion addresses are 16-character non-mnemonic hashes, comprised of alphabetic and numeric strings.

wztyb7vlfcw6l4xd.onion

- The "onion" name refers to onion routing, the technique used by Tor to achieve a degree of anonymity.

How Tor Works: 1



How Tor Works: 2



Alice



Step 2: Alice's Tor client picks a random path to destination server. **Green links** are encrypted, **red links** are in the clear.



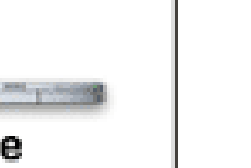
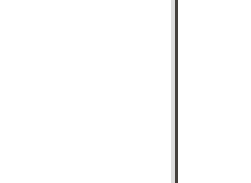
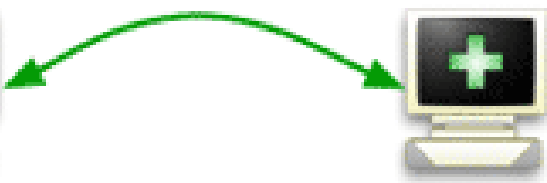
Dave



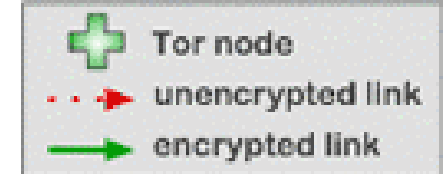
Jane



Bob



How Tor Works: 3



Alice



Step 3: If at a later time, the user visits another site, Alice's tor client selects a second random path. Again, **green links** are encrypted, **red links** are in the clear.



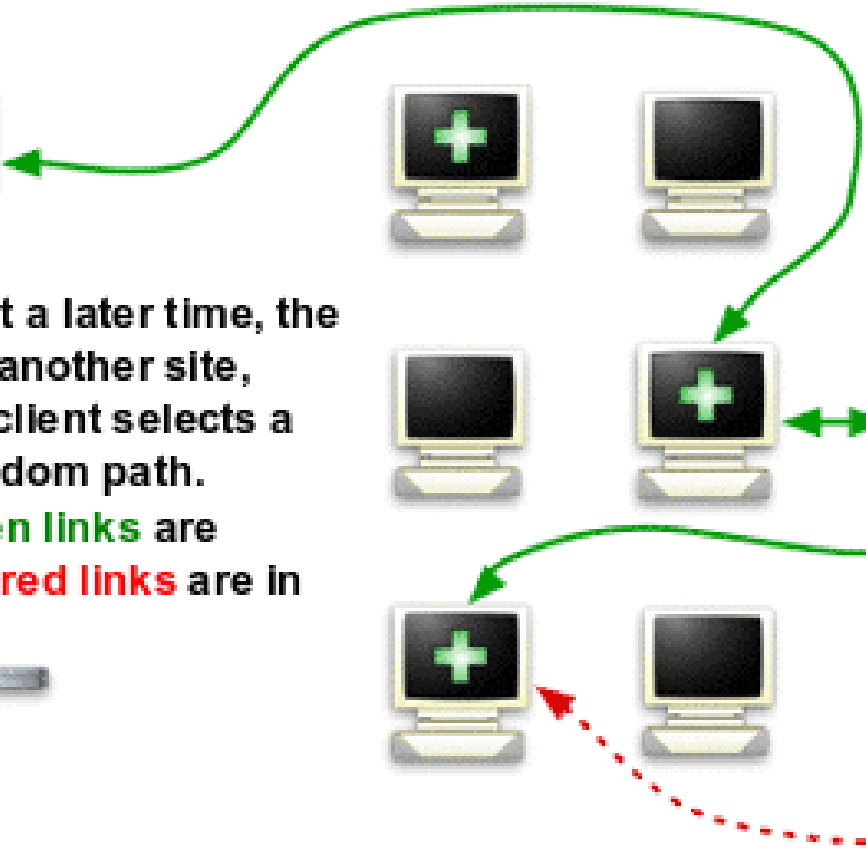
Dave



Jane



Bob



Browsers



Tor Homepage



The screenshot shows the Tor Project homepage in a web browser. The address bar displays 'https://www.torproject.org'. The navigation menu includes 'Home', 'About Tor', 'Documentation', 'Press', 'Blog', and 'Contact'. Below the menu are buttons for 'Download', 'Volunteer', and 'Donate'. The main content area features a large green banner for 'Anonymity Online' with a 'Download Tor' button. To the right is a 'Recent Blog Posts' section with five entries. Below the banner are sections for 'What is Tor?' and 'Why Anonymity Matters'. At the bottom is a purple bar for 'Our Projects'.

[Home](#) [About Tor](#) [Documentation](#) [Press](#) [Blog](#) [Contact](#)

[Download](#) [Volunteer](#) [Donate](#)

Anonymity Online

Protect your privacy. Defend yourself against network surveillance and traffic analysis.

 [Download Tor](#)

- Tor prevents people from learning your location or browsing habits.
- Tor is for web browsers, instant messaging clients, and more.
- Tor is free and open source for Windows, Mac, Linux/Unix, and Android

Recent Blog Posts

[Tor Weekly News — April 22nd, 2015](#)
Wed, 22 Apr 2015 Posted by: *harmony*

[Tor Summer of Privacy Projects](#)
Mon, 20 Apr 2015 Posted by: *atarar*

[Tor Weekly News — April 15th, 2015](#)
Wed, 15 Apr 2015 Posted by: *harmony*

[A New Era at the Tor Project](#)
Mon, 13 Apr 2015 Posted by: *wseitzer*

[Tor Browser 4.0.8 is released](#)
Thu, 09 Apr 2015 Posted by: *mikeperry*

[View all blog posts »](#)

Who Uses Tor?

 **Family & Friends**
People like you and your family use Tor to protect themselves, their children, and their dignity while using the Internet.

 **Businesses**
Businesses use Tor to research competition, keep business strategies

What is Tor?

Tor is free software and an open network that helps you defend against traffic analysis, a form of network surveillance that threatens personal freedom and privacy, confidential business activities and relationships, and state security.

[Learn more about Tor »](#)

Why Anonymity Matters


Tor protects you by bouncing your communications around a distributed network of relays run by volunteers all around the world. It prevents somebody watching your Internet connection from learning what sites you visit, and it prevents the sites you visit from learning your physical location.

[Get involved with Tor »](#)

Our Projects

Tor Download Page


← → ↻ <https://www.torproject.org/download/download-easy.html.en> ☆ ☰



Home About Tor Documentation Press Blog Contact

Download Volunteer Donate

HOME » DOWNLOAD


**Want Tor to really work?**

You need to change some of your habits, as some things won't work exactly as you are used to. Please read the [full list of warnings](#) for details.

Tor Browser for Windows

Version 4.0.8 - Windows 8, 7, Vista, and XP

Everything you need to safely browse the Internet.
[Learn more »](#)

**DOWNLOAD**
Tor Browser

Not Using Windows?
Download for [Mac](#) or [GNU/Linux](#)


(sig) What's This? English ▾

DONATE

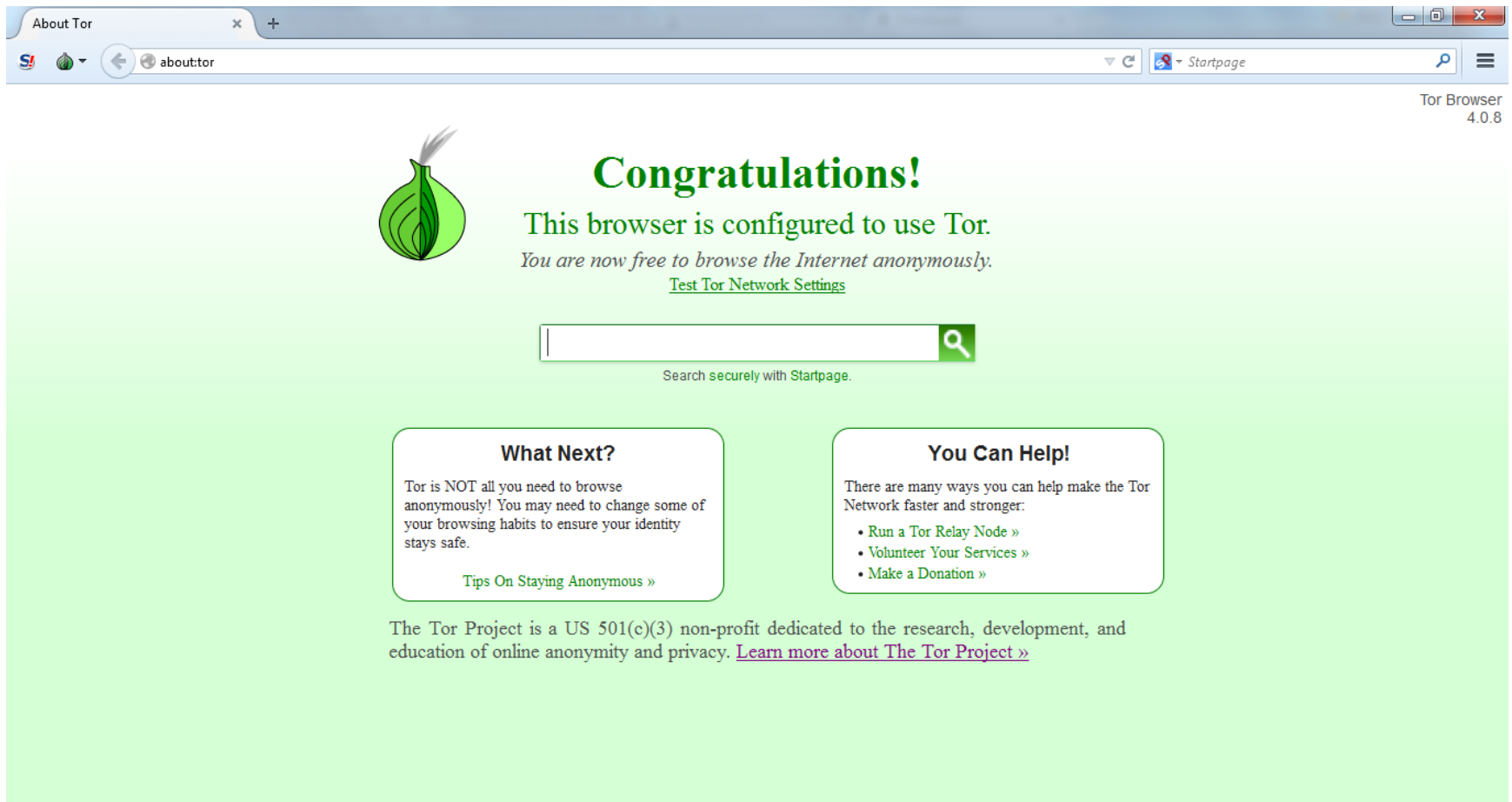
[Other donation options...](#)

Looking For Something Else? [View All Downloads](#)

Want Tor to really work?

 Microsoft Windows


Tor Browser Installed



About Tor x +

about:tor Startpage

Tor Browser 4.0.8



Congratulations!

This browser is configured to use Tor.

You are now free to browse the Internet anonymously.

[Test Tor Network Settings](#)

Search securely with Startpage.

What Next?

Tor is NOT all you need to browse anonymously! You may need to change some of your browsing habits to ensure your identity stays safe.

[Tips On Staying Anonymous »](#)

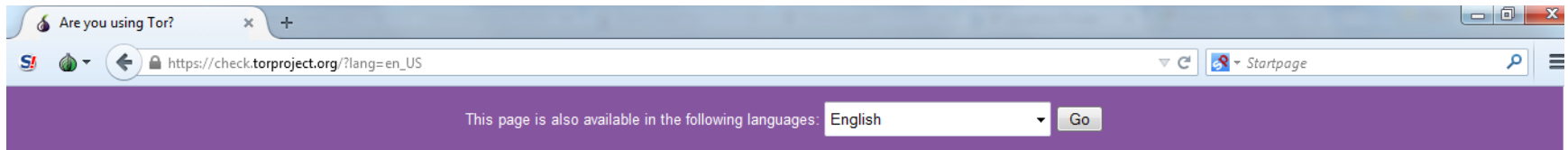
You Can Help!

There are many ways you can help make the Tor Network faster and stronger:

- [Run a Tor Relay Node »](#)
- [Volunteer Your Services »](#)
- [Make a Donation »](#)

The Tor Project is a US 501(c)(3) non-profit dedicated to the research, development, and education of online anonymity and privacy. [Learn more about The Tor Project »](#)

Tor IP address



Congratulations. This browser is configured to use Tor.


Your IP address appears to be: **37.130.227.133**

Please refer to the [Tor website](#) for further information about using Tor safely. You are now free to browse the Internet anonymously. For more information about this exit relay, see: [Atlas](#).

[Donate to Support Tor](#)

[Tor Q&A Site](#) | [Volunteer](#) | [Run a Relay](#) | [Stay Anonymous](#)

How to find geolocation of an IP Address?

 +2220 Recommend this on Google



Geolocation for **37.130.227.133**.
[Change IP with VPN](#)


IP Location [Finder](#)

IP Address:

Here are the results from a few Geolocation providers. Accuracy of geolocation data may vary from a provider to provider. Test drive yourself, and decide on the provider that you like.

Do you have a problem with IP location lookup?
[Report a problem.](#)

Geolocation data from [IP2Location](#) (Product: DB4 updated on 3/31/2015)

IP Address	Country	Region	City	ISP
37.130.227.133	United Kingdom 	England	London	Hosting Services Inc

[Google Map for London, England, United Kingdom \(New window\)](#)

Geolocation data from [IPLigence](#) (Product: Max updated on 4/22/2015)

IP Address	Country	Region	City	ISP
37.130.227.133	United Kingdom			

Are you using Tor?

https://check.torproject.org/?lang=en_US

Startpage

This page is also available in the following languages: English Go



Congratulations. This browser is configured to use Tor.

Your IP address appears to be: **193.111.136.162**

Please refer to the [Tor website](#) for further information about using Tor safely. You are now free to browse the Internet anonymously. For more information about this exit relay, see: [Atlas](#).

Donate to Support Tor

[Tor Q&A Site](#) | [Volunteer](#) | [Run a Relay](#) | [Stay Anonymous](#)

How to find geolocation of an IP Address?



+2220 Recommend this on Google

New Message

To puppyscrubbers@gmail.com

Subject

Geolocation for **193.111.136.162**.

[Change IP with VPN](#)


IP Location **Finder**

IP Address:

Here are the results from a few Geolocation providers. Accuracy of geolocation data may vary from a provider to provider. Test drive yourself, and decide on the provider that you like.

Do you have a problem with IP location lookup?
[Report a problem.](#)

Geolocation data from [IP2Location](#) (Product: DB4 updated on 3/31/2015)

IP Address	Country	Region	City	ISP
193.111.136.162	Germany 	Nordrhein-westfalen	Dusseldorf	Interprovider Limited

[Google Map for Dusseldorf, Nordrhein-Westfalen, Germany \(New window\)](#)

Tor (The Onion Router)

A website operated as a Tor hidden service, conceals the real identity of its users and also of the website hosting server

A black market site operates as follows:

Sellers advertise their unlawful products/services through the main website or posting on the forum

Buyer interested in the offer pays using only Bitcoins and later on receives the product mostly through classic mail (hidden in different packages). Then he finalises his order

The website admin, releases funds to the sellers and receives also a certain percentage of this transaction (escrow services)

HOME » DARK NET MARKETS COMPARISON CHART

Dark Net Markets Comparison Chart - This chart integrates marketplace data with our [Hidden Marketplace List](#) ratings, along with uptime status data provided By [Dnstats.net](#) and creation dates from [Gwern.net](#). **Please Note:** This chart is not comprehensive, it does not contain all dark net markets. For the full list of dark net markets, visit the [Hidden Marketplace List](#). Found an error in the chart? outdated data? Please [contact us](#) so we can make corrections and updates! When contacting us, please include links to sources when needed.

Market	Uptime Status	URL	Open registration ?	Offers Multisig?	Had Security Issues?!	Active warnings	Commisssl on	Vendor Bond	2FA	Forced Vendor PGP	FE Allowed?	Type	Ratings	Crea
Agora	81.34%	http://agorahooawayyfoe.onion/register/Gc2h4e0FAE	Referral			None	4%	1.5BTC			Yes	Market	3.05 (568 REVIEWS)	3-12
Abraxas	98.69%	http://abraxasdegupusel.onion/register/JlYi9utdux	Referral			None	4%	100USD			Yes	Market	2.28 (9 REVIEWS)	13-1:
Alphabay	97.17%	http://pwoah7foa6au2pul.onion/	Open			None	3.5%	50\$			Yes	Free Market	3.12 (25 REVIEWS)	22-1:
BlackBank	98.53%	http://wztyb7vlfcw6l4xd.onion/	Open			None	3%	200USD			For Verified Vendors	Market	3.17 (32 REVIEWS)	5-2:
Crypto Market	96.68%	http://cryptomktgxdn2zd.onion	Open			None	3%	Free			Yes	Market	Not available	22-1:
DarkNet Services	98.56%	http://darknet4x3hcv5zp.onion/	Open			None	4%	50\$ Per month			Yes	Vendor Shop Hosting	Not available	17-5
Dream Market	96.27%	http://ltxocqh4nvwkofil.onion/?al=1675	Open			None	?	?			Yes	Market	2.43 (14 REVIEWS)	15-1

LISTINGS

Search

- Chemicals (30+)
- Counterfeits (1000+)
- Data (1200+)
- Drug paraphernalia (300+)
- Drugs (16300+)
- Electronics (100+)
- Forgeries (400+)
- Info/eBooks (3900+)
- Jewelry (100+)
- Services (800+)
- Tobacco (200+)
- Weapons (100+)
- Other (300+)

Withdrawals are back online. Since many online services may not accept payments that are coming in too late, we have cancelled such delayed requests, and in that case you might need to schedule the withdrawal again on the wallet page (it should be back in your balance).



2 oz Larry OG
1.71003073 BTC



Negotiate to Win: The 21
0.00428589 BTC



Camel Flavored 30ml
0.06493787 BTC



100x Black
1.12558985 BTC



50mg of Liquid Xanax
0.20996579 BTC



10g A-PVP Crystal (99%+)
0.34620546 BTC



Cocaine Sample 87%
0.11688817 BTC



3 Pack of EZ Test for
0.19481362 BTC



Mastabol 100 (British
0.21645958 BTC



ANONYMOUS PHONE
0.06493787 BTC

mephedrone (20+)
Meth (400+)
Prescription (200+)
Speed (400+)

Main menu:
Chemicals (30+)
Counterfeits (1000+)
Data (1200+)
Drug paraphernalia (300+)
Drugs (16300+)
Electronics (100+)
Forgeries (400+)
Info/eBooks (3900+)
Jewelry (100+)
Services (800+)
Tobacco (200+)
Weapons (100+)
Other (300+)

Cocaine Sample 87% Free shipping

0.11688817 BTC
A sample of the 87% pure coke straight of the brick
Brought to you by:
[010manolo](#) 4.85/5, 100~150 deals

From: Netherlands

0.11688817 BTC



BUY...

Feedbacks:

- 5/5 FE'd

14 days ago

anon 3~5 deals
- 5/5 Blow was great! shippin was fast! will be returning :) thankyou!

18 days ago

anon ~5/5, 15~25 deals
- 5/5 5/5 quality 5/5 Vendor 5/5 service

23 days ago

anon ~5/5, 10~15 deals

not Evil

Uncensored Hidden Wiki

TORCH

Search for: heroin Search! [Extended](#)

Search for heroin. Search results: heroin : 880.

Results 1-10 of 472. Search took 0.252 seconds

Sort by: **relevancy** | [last modified date](#) | [title](#)



1. [Реферат: Heroin Essay Research Paper HEROIN The use. Нейз](#) [10.243%]

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- <http://ye4x7dzr6w2dpa7c.onion/v.php?id=6...> - 22615 bytes [text/html] - Thu, 09 Apr 2015, 12:49:14 BST

[\[Cached copy\]](#)

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- <http://ye4x7dzr6w2dpa7c.onion/v.php?id=6...> - 22887 bytes [text/html] - Thu, 23 Apr 2015, 03:04:49 BST

[\[Cached copy\]](#)

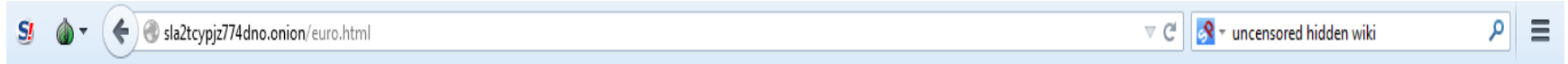
3. [\[Fake\] Heroin, Kokain & Speed Shop \(Seite 1\) - Spielwiese - Spackentreff](#) [9.967%]

... (nur über Tor möglich). [Fake] [Heroin](#), Kokain & Speed Shop Spackentreff » Spielwiese » [Fake] [Heroin](#), Kokain & Speed Shop Seiten 1 Sie ... 23.03.2015 Beiträge: 20 Thema: [Fake] [Heroin](#), Kokain & Speed Shop Willkommen in ...

- <http://germanyhusicayxs.onion/topic/1060...> - 61694 bytes [text/html] - Thu, 09 Apr 2015, 14:57:55 BST

[\[Cached copy\]](#)

Counterfeit Currency €s



SOL's Unified EURO Counterfeit's

We print and sell High Quality Euro Currency, and currently have a Tor sale going on: €3,000 in notes will only cost you €600. Our minimum is €400 for a sample order, for €1,400 (in all €50's). They are hand made, and can even be deposited into bank accounts and ATMs, without being traced. These bills are the 2002 edition.

The €50 bills are much more popular (among customers) than the €100 bills, as it decreases any amount of stress (if one is the nervous type) when going out to use them. These bills pass ALL TESTS (marker, UV light, hologram, watermark)!

We ship them in books with the middle gutted out, or for larger orders we ship them in pillows, computer towers, stereo monitors etc. You can customize your bills anyway you'd like; you can order aged or crisp bills, cut or uncut, custom serial numbers, and mixed orders. Also, once we have established a solid relationship with you, we even do face-to-face deals.

We sell to shady store owners, drug cartels, shady churches, and just about any and everyone from all walks of life bro. I even have this big hedge fund financial adviser dude, that tells me scary shit about the Worldwide economy and how it's going to totally collapse soon, because of bitcoins rise in demand. He's buying up these bills by the ten's of thousands, and putting his real money into Swiss accounts and gold overseas. He says the Euro will become obsolete very soon, and that these bills are just shielding him and his family for what's to come.

These bills are NOT WASHED, nor the computer printer scan-print method. Nor is the printing process or ink the same.

These are made with EXACTLY the same techniques the Fed uses to make genuine currency.

All bills are made from scratch. €50 bills are made the exact same way the Government makes genuine currency.

EMAIL US AT BM-2cWKZAfeFxKJuSw1DXDgFpiYgc4r8Tqbid@bitmessage.ch to place orders, and ask questions! Thanks! :) PGP Key At sla2tcypjz774dno.onion/pgp.txt

Good Side of Tor

<https://www.torproject.org/about/torusers.html.en>

Ordinary people

Journalists

Law Enforcement

Military

Activists & Whistleblowers

Bloggers

IT professionals

High profile & Low profile people

Attribution





U.S. Immigration and
Customs Enforcement



THIS HIDDEN SITE HAS BEEN SEIZED

**as part of a joint law enforcement operation by
the Federal Bureau of Investigation, ICE Homeland Security Investigations,
and European law enforcement agencies acting through Europol and Eurojust**

in accordance with the law of European Union member states
and a protective order obtained by the United States Attorney's Office for the Southern District of New York
in coordination with the U.S. Department of Justice's Computer Crime & Intellectual Property Section
issued pursuant to 18 U.S.C. § 983(j) by the
United States District Court for the Southern District of New York



Forensics Analysis

- Evidence
- Attribution
- Suspects
- Exhibits
- Additional lines of enquiry





Law Enforcement

Industry

Academia

High-Tech Crime Forum

- BPFi membership
- AGS
- PSNI
- UCD
- ISPAI
- Invited guests



Europol

- J-CAT
 - Malware
 - Botnets
 - Intrusion
 - crime facilitation
 - bulletproof hosting
 - counter-anti-virus services
 - infrastructure leasing and rental
 - money laundering (inc VC)
 - online fraud
 - online payment systems
 - Carding
 - social engineering
- Europol Malware Analysis System (EMAS)
- Cross matching
- Joint Action Day (Airport Action Day)



Trust Development



- Confidentiality
- Openness
- Management of expectation
- Capability
- Awareness

GBFI Fraud Course

- 88 Fraud investigators PA
- Banks
- ATM Fraud
- BPFI
- Cybercrime week
- Relevant industry speakers



Mutual Assistance

- Criminal Justice (Mutual Assistance) Act, 2008
- International Letter of Request (ILOR)
- Rogatory Letter
- MLAT

Mutual Assistance

The evidence sought must be:

1. Sought in respect of a criminal investigation
2. Relevant and necessary to the offence under investigation

Mutual Assistance

- Request completed by the Investigator
- Forwarded to Mutual Assistance
- Forwarded to D.P.P.
- When issued by D.P.P. - returned to M.A.
- Forwarded to Central Authority at D.O.J.
- Translation of Request & material sought

Garda good news stories

- 2008 – Lying Eyes
- 2013 - Freedom Hosting
- 2013 – Silk Road
- 2014 – Operation ‘Onymous’ (Silk Road 2)
- 2015 – Graham Dwyer
- Fine Gael hack
- Child pornography cases
- Fraud Cases

ACJRD Working Groups



For your Consideration

- <http://www.nationalcrimeagency.gov.uk/news/765-campaign-targets-uk-s-youngest-cyber-criminals>

Questions?

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