## **PHISHING EMAIL ANALYSIS REPORT**

**Objective:** Identify phishing characteristics in a suspicious email sample.

## Tools used:

- 1. Email client (Thunderbird email)
- 2. free online header analyser (MXToolbox)

### **Email details:**

Subject: RE: Urgent confirmation Required for invoice & Down Payment Details

Sender Name: Sedra Al Jundi Sender Email: cert@etsdc.com

Date: 12 May 2025

Attachment: invoice\_10988.xz



### 2025-05-12 (MONDAY): UNIDENTIFIED MALWARE INFECTION FROM EMAIL ATTACHMENT

Zip flies are password-protected. Of note, this site has a new password scheme. For the password, see the "about" page of this website.

#### ASSOCIATED FILES:

- 2025-05-12-IOCs-for-unidentified-malware-infection.txt.zip 1.3 kB (1,280 bytes)
   2025-05-12-email-with-malware-attachment-0845-UTC.emi.zip 1.5 MB (1,490,247 bytes)
   2025-05-12-infection-traffic-from-unidentified-malware.pcap.zip 1.7 MB (1,668,310 bytes)
   2025-05-12-unidentified-malware-and-artifacts.zip 4.3 MB (4,284,287 bytes)

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2825-05-12 (MONDAY): UNIDENTIFIED MALMARE INFECTION FROM EMAIL ATTACHMENT
INFECTION CHAIN:
- email --> attachment --> extracted EXE file for the malware
SELECT HEADER LINES FROM THE EMAIL:
- Received: from etsdc.com (unknown [185.222.57[.]74]); Mon, 12 May 2825 08:45:35 UTC - Date: 12 May 2825 01:45:33 -0700 From: Sedra Al Jundi - Subject: RE: Urgent: Confirmation Required for Invoice & Down Payment Details - Message-ID: <202585120149332.63FE56B89701F86C@etsdc[.]comp - Attachment file name: invoice_10988.xr
ATTACHMENT AND EXTRACTED MALMARE!
- SeA256 hash: 341f58843626dec0cabc58fbec4f7263125ec1ed75e0c97418cefe0ca23c6a25
- File size: 1,427,085 bytes
- File name: Imvoice 19988.xz
- File type: Zip archive data, at least v2.0 to extract
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Example Continuation Products to broke it Down Representative Section (1997)

To Inspect and attending Continuation Required for Invoice & Down Representation

To Inspect this message finds you well.

Please continue receipt of the attached proforms invoice and the 30% down payment (in EUR), which was remitted to your account on April 28, 3025.

As we are preparing to ment the remaining 70% by the end of this week, kindly confirms whether the same account details bised in the invoice to attached be used for the balance payment.

The invoice is attached for your reference. We would appreciate your prompt confirmation by return email.

Thank you in advance for your well response.

Sector Al Jund!

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Return-Poth: cort@etsdc.com
Anthorizin cessults: [recipient's mail server]:
distance:
```

# **Phishing Indicators Identified in Email:**

• Urgency and Pressure from sender:

The subject and body uses urgent language such as "Urgent Confirmation Required ....", "As we are preparing...... by the end of this week".

Phishing use urgent language to trick the users into acting without thinking.

## • Suspicious Attachment:

There is an attachment: invoice\_10988.xz

The format .xz is a compressed archieve – not a common invoice format and used often to bypass email filters.

# Greeting:

The email starts with: "Dear Sir,"

Here, no name is used – this is common in mass phishing where attackers don't know your name.

### • Sender email Address:

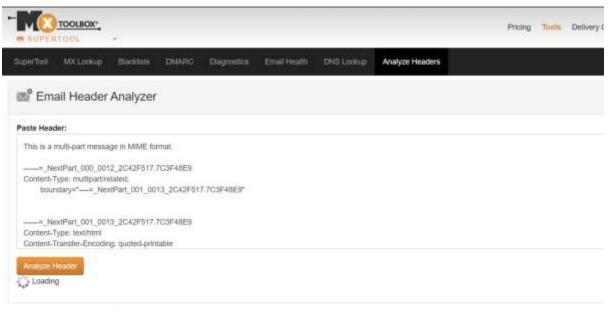
The Sender email address does look legal but it can be forged that's why it is important to check the header of the email.

## • Use of Formal Language:

Sentence like: "We would appreciate your prompt confirmation by return email."

This type of language is used to sound official which are used commonly in phishing mails.

# **Header Analysis**



## ABOUT EMAIL HEADERS

This tool will make email headers human readable by parsing them according to RFC 822. Email headers are present on every email you receive via the Internet and can provi results and more. If you need help getting copies of your email headers, just read this tutorial.





Hop	Detay	From	By	With	Time (UTC)	Blacktst
1		elado.com 989.222.67.74	mail	ESMTP	5/13/2025 8.45/35/AM	0

Greak & Yahoo are now requiring DMARC - Get yours setup with Derivery Center

### SPF and DKIM Information



event special the last station relay and has not also being prefection and how our six bine, current logic to said 1911 The SPF record version 210.158.234.2 isclude helio/restlette.net First The specified donlain is searched for an 'allow' inchade The specified domain is searched for an 'allow' H(340) \_tph me tight in Fiss The specified domain is searched for an 'allow' Always matches. It goes at the end of your record. SofFall Test SPF-Authorisin 97F Failed No. 19 - 185-222-17-74 0 SPF Record Published SPF Record tours) SPE Record Depressive No deprecated records towns SPF Multiple Records 0 Less than two records found O SPC Algorite District found in 594 0 SPF System Chees The record of wells! 0 SPF Included Lookups Number of included lookups is OK SPF Recursive Loop Nor Recursive Loops on Includes 0 SPF Duplicate Include No Duplicate Includes Found ○ SPE Type PTR Check No type (FTR fooks)



- **SPF:** Failed The email was sent from an unauthorized IP (185.222.57.74) not allowed by the etsdc.com domain.
- **DKIM:** Failed No valid DKIM signature was found, indicating the message could have been altered.
- **DMARC:** Failed Since both SPF and DKIM failed, DMARC policy marked the message for quarantine.
- Source IP: Suspicious and not associated with the official domain; possibly listed in blacklists.
- **Recommended Action:** Reject The server flagged the message as untrusted.

# Conclusion

This email is a **confirmed phishing attempt** delivering malware via a disguised attachment and social engineering tactics. It is crafted to appear like a legitimate financial transaction but fails authentication checks and contains a malicious file.

# Recommendations

- Do not open such attachments.
- Always verify the sender via official communication channels.
- Use email security tools to detect spoofing.
- Educate employees about phishing indicators.