



DWS Account Security Program

As a trusted partner in serving your investment needs DWS takes your account security seriously and has developed the

DWS Account Security Program which outlines actions DWS takes to protect your account(s) along with steps you should follow to reduce the risk of fraudulent activity. Account security is a shared responsibility. Let's work together to make protecting your account(s) a top priority.

Contact DWS immediately at (800) 728-3337, Monday – Friday, 7 a.m. to 6 p.m. Central Time if you suspect any unauthorized account activity, notice errors or discrepancies in your DWS account(s), or are not receiving your DWS account statements.

Losses due to unauthorized activity or fraud may be eligible for recovery if you follow the security best practices outlined in the DWS Account Security Program. Failure to adhere to these best practices may result in losses being deemed ineligible for recovery.

Monitor your account(s)

DWS sends periodic statements and transaction confirmations either by electronic delivery or U.S. Mail depending on how you have chosen to receive such information.

Regardless of delivery option selected, DWS will always send paper confirmations to your address of record via U.S. mail when certain changes to your account(s) are made including (1) the establishment of online access; (2) changes to your bank account information, and (3) updates to your e-mail address and your U.S. postal address.

Changes to the address of record or banking information on file cannot be used to receive redemption proceeds for 15 calendar days after the change is received in good order and updated on your account(s).

Open Your Mail – It is critical that you monitor your account activity by reviewing all statements, transaction confirmations and account-related notices as soon you receive them which could reveal unauthorized activity.

Not Receiving Statements? – If you are not receiving your DWS quarterly account statements or transaction confirmations, please contact us immediately.

Your Contact Information – Maintain accurate and up-to-date contact information with DWS such as your mailing address, email address, and phone numbers to ensure that we can reach you.

Online Access – If you have established DWS online account access, log in and check your account(s) every month. Report any unauthorized activity immediately.

Credit Monitoring – Check your credit report frequently for suspicious activity or identity theft.

Protect your online account(s)

Add a "Trusted Contact" – This is an individual who can tell us how to best contact you in the event we are concerned about fraud, financial abuse, or unauthorized transactions. A trusted contact is not authorized to transact on or make changes to your account(s). Contact DWS Shareholder Services at (800) 728-3337 for details.

Establish Online Access – By creating and maintaining a login at dws.com, or through our **DWS Direct USA app**, you may easily monitor your account(s) online to quickly identify unauthorized activity. DWS employs a multifactor authentication method to help protect your online account(s).

Use Unique Passwords – Choose a unique password that is only used for your DWS login and change your password periodically.

Keep Your Information Secure – Do not share account access information. If you allow someone to access your account information, any activities they perform may be considered authorized.

Phishing/Smishing using artificial intelligence (AI)

Phishing/Smishing is the fraudulent attempt to obtain sensitive information, such as usernames, passwords, & Social Security Numbers via emails and text messages. Scammers can use AI to write more convincing and natural-sounding phishing emails and text messages. **We will never ask you for your account password.**

If you believe you received a suspicious email or text message related to your DWS account(s), **please contact us immediately.** DWS may apply heightened monitoring to further protect your account(s).

- _ Phishing/Smishing emails/texts often contain spelling or grammar errors and urgent or threatening language.
- _ Be aware that responding or clicking on links within these messages may expose your personal and/or account-related information.
- _ Access your DWS online account(s) only by typing the legitimate link into the address bar or using a bookmark that you established. Never access your DWS online account(s) from a link in a pop-up or a suspicious email.

Keep your electronic devices secure

- _ Upgrade to the latest operating software system, or OS, and respond to software updates promptly
- _ Activate security features such as pop-up blockers
- _ Log out of websites, including your DWS online account(s), when you have completed your activity
- _ Lock your mobile phones
- _ Install antivirus software that detects and removes malicious software from your computer
- _ Avoid public computers and public Wi-Fi connections

Help us help you

As part of our caller verification process, there are several security questions we will ask to verify your identity. DWS will only ask for information specific to your DWS account(s).

- _ Contact us immediately if you are unsure of information you receive from DWS, you suspect unauthorized activity or you become a victim of identity theft. Our service representatives can be reached at (800) 728-3337, Monday – Friday, 7 a.m. to 6 p.m. Central time.
- _ DWS may at times call you to verify information regarding transactions or updates that you have requested on your account(s). If you receive such a call and are unsure if it is valid, please end the call and call Shareholder Services at the number above.
- _ If DWS suspects unauthorized activity in your account(s), please cooperate with us as we complete our investigation. Please return our calls in a timely manner or contact us immediately if you receive written notification that we are trying to reach you. We may also ask you to file a police report or provide a statement of facts.
- _ Follow DWS's recommendations for safeguarding your account(s) at all times.

All reported concerns will be thoroughly investigated to determine program applicability and eligibility for recovery. Failure to report unauthorized activity to us promptly after notice is sent to you may result in losses being deemed ineligible for recovery.

Additional resources:

Visit the DWS Investor Resource Center at the following link and scroll down to "Prepare and be aware":

<https://www.dws.com/en-us/resources/investor-resource-center/>

Other helpful links:

<https://www.investor.gov/protect-your-investments/fraud/how-avoid-fraud>

<https://www.consumer.ftc.gov/>

Be careful when using checks

Scammers are stealing checks from mailboxes. Checks contain your personal information - your name, address and account number. Scammers can use chemicals to erase and rewrite checks, sell your personal information or use it to create counterfeit checks. This can leave you exposed to fraud if a check falls into the wrong hands. Consider using other ways to make purchases or receive redemption proceeds such as adding your bank account to your DWS account which can be completed online at dws.com.

Contact DWS Shareholder Services at 1-800-728-3337 Monday – Friday, 7 a.m. to 6 p.m. Central Time for more information or if you have any questions on how to protect your account.

This program applies only to accounts that you hold directly with the DWS mutual funds. Investments held through a financial advisor or other third-party are not eligible for this program. DWS will determine the applicability of the Account Security Program and the type and amount of any reimbursement. DWS will not cover legal or professional fees, loss of opportunity, or any indirect costs, including tax consequences, nor any amounts that are eligible for recovery from others including a depository bank or through insurance. We may require that you provide a police report, and sign a release as a condition to any recovery. This release will require you to reimburse DWS for any amount of a loss covered by DWS that is later recovered by you through other means. DWS may modify or withdraw the Account Security Program at any time.

All funds involve a certain degree of risk. Some funds have more risk than others. Please read the fund's prospectus before you invest or send money. War, terrorism, sanctions, economic uncertainty, trade disputes, public health crises and related geopolitical events have led and, in the future, may lead to increased market volatility and may have significant disruptions in U.S. and world economies and markets, which may lead to increased market volatility and may have significant adverse effects on the fund and its investments.

Obtain a prospectus

To obtain a summary prospectus, if available, or a prospectus, download one from www.dws.com, talk to your financial representative or call (800) 728-3337. We advise you to carefully consider the product's objectives, risks, charges and expenses before investing. The summary prospectus and prospectus contain this and other important information about the investment product. Please read the prospectus carefully before you invest.

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