



Open a Schwab One[®] Brokerage Account

Schwab.com 1-800-435-4000 (inside the U.S.) +1-415-667-8400 (outside the U.S.) 1-888-686-6916 (multilingual services)

Welcome to Charles Schwab.

- If you or any of your additional account holders live outside the United States, please contact us at +1-415-667-8400 for the Schwab One International[®] Account Application.
- If you would like to open a Schwab One brokerage account with a linked Schwab Bank Investor Checking[™] account, please complete the Open a Schwab One Brokerage Account and a Linked Schwab Bank Investor Checking Account form.
- For important disclosures about our relationship with you and the services we can provide, please visit www.schwab.com/transparency.

1. Account Registration

Please select only one box.

- Individual**
The assets in your account will be paid to your estate in the event of your death.
- Joint Tenants With Right of Survivorship (JTWROS)**
Your share of the account will pass to a surviving owner in the event of your death.
- Tenants in Common**
Your share of the account will pass to your estate in the event of your death.
- Community Property***
Each spouse has a one-half interest in the account assets and equal responsibility for account activity. For married couples in selected states.
- Community Property With Rights of Survivorship***
Your share of the account will pass to your spouse in the event of your death. For married couples in selected states.
- Tenants by the Entirety***
Spouses own the account jointly. For married couples in selected states. It is your responsibility to determine if the ownership you selected is available in your state.

*This type of ownership may not be available in your state. It is your responsibility to determine if the ownership you selected is available in your state.

2. Account Holder Information

We respect your privacy. Schwab and Schwab Bank will use the information you provide to open and service your accounts, communicate with you, and provide information about products and services. Read about Schwab's privacy policy at www.schwab.com/privacy.

Account Holder

As required by federal law, Schwab will use the information provided to verify your identity.

Name *First* _____ *Middle* _____ *Last* _____ *Suffix* _____

Social Security/Tax ID Number _____ Date of Birth (mm/dd/yyyy) _____ Preferred Name or Alias (if applicable) _____

Regulations require that you provide us with your legal address.

Home/Legal Street Address (no P.O. boxes) _____

City _____ State or Province _____ Zip or Postal Code _____ Country _____

Mailing Address (Include mailing address if different from home/legal address. P.O. boxes may be used.)

City State or Province Zip or Postal Code Country

Telephone Number Mobile Number Work Number Extension

Email Address* Mother's Maiden Name

*By providing your email address, you consent to receiving email from Schwab. Information about opting out of certain email communications is provided at www.schwab.com/privacy.

Country(ies) of Citizenship Country of Legal Residence (Select only one.)
 USA Other: _____ USA Other: _____

ID Number and Type (Please select only one box and provide the relevant information below.)

Passport Driver's License Gov't-Issued ID

Identification Number Country of Issuance State of Issuance (if applicable) Issue Date (mm/dd/yyyy) Expiration Date (mm/dd/yyyy)

Marital Status

Single Married Divorced Widowed Number of Dependents _____

Securities industry regulations require that we collect the following information.

Employment Information (Please select only one box.)

Employed Self-Employed Retired Homemaker Student Not Employed

Occupation (If you selected "Employed" or "Self-Employed," please select one option that best describes your occupation.)

Business Owner/Self-Employed Financial Services/Banking Professional Military Consultant
 Executive/Senior Management Information Technology Professional Educator Other (specify): _____
 Medical Professional Other Professional Sales/Marketing
 Legal Professional Clerical/Administrative Services U.S. Government Employee (federal/state/local)
 Accounting Professional Foreign Government Employee (non-U.S.) Trade/Service (labor/manufacturing/production)

Employer Name/Business Name Business Street Address (no P.O. boxes)

City State or Province Zip or Postal Code Country

The Next Two Questions Are Required by Industry Regulations

Are you or an immediate family member associated with or employed by a stock exchange or member firm of an exchange or FINRA, or a municipal securities broker-dealer?

No Yes (If "Yes," you must attach a letter from your or your immediate family member's employer or affiliated broker-dealer approving the establishment of your Account when submitting this Application. List the company name _____.)

Are you a director, 10% shareholder, or policy-making officer of a publicly held company?

No Yes (If "Yes," enter company name _____ and trading symbol _____.)

Financial Information

Securities industry regulations require that we collect this information.

Investment Experience (Please select only one box.)

None Limited Good Extensive

Annual Income (Please select only one box.)

Under \$15,000 \$15,000-\$24,999 \$25,000-\$49,999 \$50,000-\$99,999 \$100,000 or more

Liquid Net Worth

Your liquid net worth is the part of your net worth that can be easily turned into cash. Liquid net worth includes investments like stocks and mutual funds but not assets like real estate.

Please select only one box.

- Under \$25,000
- \$25,000-\$49,999
- \$50,000-\$99,999
- \$100,000-\$249,999
- \$250,000 or more

\$ _____

Specify dollar amount if \$250,000 or more.

Trusted Contact Designation

A Trusted Contact Person ("Trusted Contact")* is a resource Schwab, and your advisor (if you have one), may contact on your behalf, if necessary, to attempt to address concerns regarding potential financial exploitation, or in communicating with you regarding issues related to your account(s). A Trusted Contact will not be able to view your account information, execute transactions in your account(s), or inquire about account activity, unless that person has that authority through another role on the account(s), such as a trustee or power of attorney. Providing Schwab with Trusted Contact information is voluntary. We encourage you to provide two Trusted Contacts in the event that one is not reachable in the future.

- Schwab suggests that your Trusted Contact(s) be someone other than your financial consultant or investment advisor.
- You may name up to two Trusted Contacts.
- The person(s) you name as Trusted Contact(s) will be the Trusted Contact(s) on all of your Schwab accounts, as provided for in your account agreement.
- For multiple-party accounts, each party can name separate Trusted Contacts.
- The Trusted Contact(s) must be at least 18 years old.

Trusted Contact Information

Trusted Contact information provided on this form will replace all Trusted Contact information currently on file.

Trusted Contact Person 1

If you have no changes to your existing Trusted Contact, please skip this section.

Name *First* _____ *Middle* _____ *Last* _____ *Suffix* _____

Relationship (Please select only one.)

- Spouse
- Partner
- Child
- Parent
- Sibling
- Friend
- Other

Please provide at least one method of contact for each Trusted Contact listed.

Mailing Address (no P.O. boxes) _____ City _____

State or Province _____ Zip or Postal Code _____ Country _____

Telephone Number _____ Mobile Number _____ Email Address _____

Trusted Contact Person 2

If you have no changes to your existing Trusted Contact, please skip this section.

Name *First* _____ *Middle* _____ *Last* _____ *Suffix* _____

Relationship (Please select only one.)

- Spouse
- Partner
- Child
- Parent
- Sibling
- Friend
- Other

Please provide at least one method of contact for each Trusted Contact listed.

Mailing Address (no P.O. boxes) _____ City _____

State or Province _____ Zip or Postal Code _____ Country _____

Telephone Number Mobile Number Email Address

*If you provide a Trusted Contact Person(s) to Schwab, you understand that you have authorized Schwab and your advisor (if you have one) to contact the Trusted Contact Person(s) at their discretion and to disclose information about your account to address possible activities that might indicate financial exploitation of you; to confirm the specifics of your current contact information, health status (including physical or mental capacity), or the identity of any legal guardian, executor, trustee, or holder of a power of attorney on your account(s); or as otherwise permitted by FINRA rules or state law. For more information, please see your Schwab Account Agreement, which is available at www.schwab.com/accountagreement.

Additional Account Holder

As required by federal law, Schwab will use the information provided to verify your identity.

Name First Middle Last Suffix

Social Security/Tax ID Number Date of Birth (mm/dd/yyyy) Preferred Name or Alias (if applicable)

Regulations require that you provide us with your legal address.

Home/Legal Street Address (no P.O. boxes)

City State or Province Zip or Postal Code Country

Mailing Address (Include mailing address if different from home/legal address. P.O. boxes may be used.)

City State or Province Zip or Postal Code Country

Telephone Number Mobile Number Work Number Extension

Email Address* Mother's Maiden Name

*By providing your email address, you consent to receiving email from Schwab. Information about opting out of certain email communications is provided at www.schwab.com/privacy.

Country(ies) of Citizenship Country of Legal Residence (Select only one.)
USA Other: USA Other:

ID Number and Type (Please select only one box and provide the relevant information below.)

Passport Driver's License Gov't-Issued ID

Identification Number Country of Issuance State of Issuance (if applicable) Issue Date (mm/dd/yyyy) Expiration Date (mm/dd/yyyy)

Marital Status

Single Married Divorced Widowed Number of Dependents

Securities industry regulations require that we collect the following information.

Employment Information (Please select only one box.)

Employed Self-Employed Retired Homemaker Student Not Employed

Occupation (If you selected "Employed" or "Self-Employed," please select one option that best describes your occupation.)

Business Owner/Self-Employed Financial Services/Banking Professional Military Consultant
Executive/Senior Management Information Technology Professional Educator Other (specify):
Medical Professional Other Professional Sales/Marketing
Legal Professional Clerical/Administrative Services U.S. Government Employee (federal/state/local)
Accounting Professional Foreign Government Employee (non-U.S.) Trade/Service (labor/manufacturing/production)

Employer Name/Business Name	Business Street Address (no P.O. boxes)		
City	State or Province	Zip or Postal Code	Country

The Next Two Questions Are Required by Industry Regulations

Are you or an immediate family member associated with or employed by a stock exchange or member firm of an exchange or FINRA, or a municipal securities broker-dealer?

No Yes (If "Yes," you must attach a letter from your or your immediate family member's employer or affiliated broker-dealer approving the establishment of your Account when submitting this Application. **List the company name** _____ .)

Are you a director, 10% shareholder, or policy-making officer of a publicly held company?

No Yes (If "Yes," enter company name _____ and trading symbol _____ .)

Financial Information

Securities industry regulations require that we collect this information.

Investment Experience (Please select only one box.)

None Limited Good Extensive

Annual Income (Please select only one box.)

Under \$15,000 \$15,000-\$24,999 \$25,000-\$49,999 \$50,000-\$99,999 \$100,000 or more

Liquid Net Worth

Your liquid net worth is the part of your net worth that can be easily turned into cash. Liquid net worth includes investments like stocks and mutual funds but not assets like real estate.

Please select only one box.

Under \$25,000 \$25,000-\$49,999 \$50,000-\$99,999 \$100,000-\$249,999 \$250,000 or more

\$ _____

Specify dollar amount if \$250,000 or more.

Trusted Contact Designation

A Trusted Contact Person ("Trusted Contact")* is a resource Schwab, and your advisor (if you have one), may contact on your behalf, if necessary, to attempt to address concerns regarding potential financial exploitation, or in communicating with you regarding issues related to your account(s). A Trusted Contact will not be able to view your account information, execute transactions in your account(s), or inquire about account activity, unless that person has that authority through another role on the account(s), such as a trustee or power of attorney. Providing Schwab with Trusted Contact information is voluntary. We encourage you to provide two Trusted Contacts in the event that one is not reachable in the future.

- Schwab suggests that your Trusted Contact(s) be someone other than your financial consultant or investment advisor.
- You may name up to two Trusted Contacts.
- The person(s) you name as Trusted Contact(s) will be the Trusted Contact(s) on all of your Schwab accounts, as provided for in your account agreement.
- For multiple-party accounts, each party can name separate Trusted Contacts.
- The Trusted Contact(s) must be at least 18 years old.

Trusted Contact Information

Trusted Contact information provided on this form will replace all Trusted Contact information currently on file.

Trusted Contact Person 1

If you have no changes to your existing Trusted Contact, please skip this section.

Name First	Middle	Last	Suffix
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Relationship (Please select only one.)

Spouse Partner Child Parent Sibling Friend Other

Please provide at least one method of contact for each Trusted Contact listed.

Mailing Address (no P.O. boxes)	City
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State or Province	Zip or Postal Code	Country	
Telephone Number	Mobile Number	Email Address	
Trusted Contact Person 2			
If you have no changes to your existing Trusted Contact, please skip this section.			
Name <i>First</i>	<i>Middle</i>	<i>Last</i>	<i>Suffix</i>
Relationship (Please select only one.)			
<input type="checkbox"/> Spouse <input type="checkbox"/> Partner <input type="checkbox"/> Child <input type="checkbox"/> Parent <input type="checkbox"/> Sibling <input type="checkbox"/> Friend <input type="checkbox"/> Other			
Please provide at least one method of contact for each Trusted Contact listed.			
Mailing Address <i>(no P.O. boxes)</i>			City
State or Province	Zip or Postal Code	Country	
Telephone Number	Mobile Number	Email Address	
*If you provide a Trusted Contact Person(s) to Schwab, you understand that you have authorized Schwab and your advisor (if you have one) to contact the Trusted Contact Person(s) at their discretion and to disclose information about your account to address possible activities that might indicate financial exploitation of you; to confirm the specifics of your current contact information, health status (including physical or mental capacity), or the identity of any legal guardian, executor, trustee, or holder of a power of attorney on your account(s); or as otherwise permitted by FINRA rules or state law. For more information, please see your Schwab Account Agreement, which is available at www.schwab.com/accountagreement .			
Overall Investment Objective of Account (Check all that apply.)			
<input type="checkbox"/> Capital Preservation You are seeking to minimize the potential of losing your initial investment.			
<input type="checkbox"/> Income You are seeking the continued receipt of current income while recognizing and accepting the risks of income-generating investments.			
<input type="checkbox"/> Growth You are seeking to increase the value of your investments over time while accepting price fluctuations and volatility.			
<input type="checkbox"/> Speculation You are willing to assume a higher risk of loss in exchange for potentially higher returns.			

3. Required Information About the Account

Source of Funds in Account (Required - check at least one.)

In this section, we're collecting information about the categories ("sources") of assets that will be held in your Account. Please select all of the sources of the assets that will be deposited or held in your Account, including the original sources of any assets that will be transferred into the Account from another firm.

<input type="checkbox"/> Salary/Wages/Savings <input type="checkbox"/> Social Security Benefits <input type="checkbox"/> Sale of Property or Business <input type="checkbox"/> Family/Relatives/Inheritance	<input type="checkbox"/> Investment Capital Gains <input type="checkbox"/> Gifts <input type="checkbox"/> Gambling/Lottery <input type="checkbox"/> Other <i>(please specify):</i> _____
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Purpose of Account (Required - check at least one.)

<input type="checkbox"/> General Investing <input type="checkbox"/> Investing for Tax Planning <i>(e.g., municipal bonds, etc.)</i> <input type="checkbox"/> Investing for Retirement <input type="checkbox"/> Other <i>(please specify):</i> _____	<input type="checkbox"/> Investing for Estate Planning <input type="checkbox"/> Investing for College <input type="checkbox"/> Investing of Pooled Assets <i>(e.g., funds from individual investors that are aggregated for investing purposes)</i>
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4. Add Margin

A margin account allows you to borrow against your eligible securities. You can use a margin loan to purchase additional securities, to sell securities short, to obtain short-term financing or as a source of overdraft protection. To better understand the benefits and risks of margin, please refer to the attached Margin Disclosure Statement and the Schwab One Brokerage Account Application Agreement. To learn more about margin, we encourage you to use the educational materials available at www.schwab.com/margin_education. Margin is automatically added unless you check the box below.

No, do not add margin.

5. Paperless Document Enrollment

You will receive account statements, trade confirmations, shareholder materials, account agreements and related disclosures, and other regulatory documents, if available in paperless form, by email. For certain documents, including account statements, you will receive an email notification with a link to log on to our secure website to access your documents. For complete information, please see Important Information About Your Informed Consent to Receive Paperless Documents in the Appendix to this application.

To opt for Paperless Documents, simply provide your email address in the "Account Holder Information" section. The completion of your enrollment will depend on one of the following scenarios.

Scenario 1:

If you already have an account enrolled in Paperless Documents using the email address provided in the "Account Holder Information" section, have logged on to www.schwab.com in the past six months, and agree to the following, your paperless enrollment will be complete once your account is opened.

- I have read and understood the Important Information About Your Informed Consent to Receive Paperless Documents in the Appendix to this application and consent to enrolling this account in Paperless Documents.
- I understand that I will receive an email with my new account agreement and related disclosures.

Or

Scenario 2:

If you do not have an existing account enrolled in Paperless Documents, are using a different email address, or have not logged on to www.schwab.com in the past six months, we will send you an email after the account is opened. To complete enrollment, you will need to click the "I Consent" button in that email and/or follow the instructions to access www.schwab.com. If you do not click the "I Consent" button, this account will not be enrolled in Paperless Documents, and we will send your account agreement and related disclosures, as well as future regulatory documents, by postal mail. If you do not want to participate in Paperless Documents, please check the box below.

No, do not enroll my account in Paperless Documents. Please send my regulatory documents via postal mail.

6. Order Checks and Visa® Platinum Debit Cards

Reminder: If you would like to link a Schwab Bank Investor Checking™ account, complete the Open a Schwab One Brokerage Account and a Linked Schwab Bank Investor Checking Account form.

Schwab One and Schwab One Trust accounts must have at least a \$100 balance in order to receive a debit card or checks, unless the account is linked to a Schwab Bank Investor Checking account.

If no selection is made, you will not receive checks or Visa Platinum Debit Cards.

- Yes**, I would like to order checks and a Visa Platinum Debit Card for myself and all additional account holders.
- Yes**, I would like to order checks.
- Yes**, I would like to order checks and a Visa Platinum Debit Card.

Anticipated Activity (Please select only one.)

On average, how many times per month do you anticipate writing checks and/or making ATM withdrawals?

- Less than 5 times per month** **5 to 10 times per month**
- 11 to 20 times per month** **More than 20 times per month**

7. Select How You Will Fund Your Account

Please include your check, or transfer form.

To obtain the forms referenced below, please call us at 1-800-435-4000 or visit www.schwab.com/forms.

Please select all that apply.

- Check enclosed for specified dollar amount:** \$ _____
Please make check payable to Charles Schwab & Co., Inc.
- Transfer funds from another Schwab account.**
Please complete the Letter of Authorization (LOA) for Movement of Funds in Schwab Accounts.
- Transfer funds from another financial institution.**
Please complete the Transfer Your Account to Schwab form.
- Transfer funds electronically using Schwab ACH (Schwab MoneyLink®).**
Upon opening of your account, please visit Schwab.com to transfer funds electronically. You must be an owner of the account at the Other Financial Institution.
- Direct deposit.**
With this service, you can have part of your paycheck, government payment or other recurring payment deposited directly into your Schwab account. After receiving your account number, please go to www.schwab.com/directdeposit, print a personalized direct deposit form and give it to your employer or other entity.
- Deposit funds using the Schwab Mobile app.**
Download the Schwab Mobile app and apply for Schwab Mobile Deposit™. (You must be approved for this service.)

8. Provide an Offer/Referral Code (if applicable)

This section is optional. If you have an offer or referral code, enter it here.

You may enter up to three codes. Your code(s) may be shorter than the space provided.

Terms and conditions may apply. Any taxes related to an offer are your responsibility. You should consult with your tax or legal advisor regarding any tax implications and the appropriate tax treatment of an offer. For more information regarding an offer, please call 1-866-469-7017.

Offer/Referral Code 1

Offer/Referral Code 2

Offer/Referral Code 3

9. Your Consent to Enroll in Schwab's Cash Features Program

The Cash Features Program is a service that we provide that permits the uninvested cash or "free credit balance" in your Account to earn income while those funds remain uninvested. Additional information about the Cash Features Program and each Cash Feature is available in the Cash Features Program Disclosure Statement. You can always find the most up-to-date version of this document at www.schwab.com/cashfeaturesdisclosure.

The Bank Sweep feature is an available Cash Feature for brokerage accounts of account holders residing in the U.S. Through the Bank Sweep feature, Schwab automatically makes deposits to and withdrawals from deposit accounts at one or more banks ("Sweep Banks"). Your deposits at each Sweep Bank are insured by the Federal Deposit Insurance Corporation (FDIC) up to \$250,000 (including principal and accrued interest) when aggregated with all other deposits held by you in the same insurable capacity at that bank. Certain conditions must be satisfied for FDIC insurance coverage to apply. Your funds may be placed in a Sweep Bank in excess of the FDIC insurance limit. In certain limited circumstances, Schwab may place your funds in a sweep money market fund. Please see the Cash Features Program Disclosure Statement for additional information and a list of the banks. Charles Schwab & Co., Inc. is not an FDIC-insured bank and deposit insurance covers the failure of an insured bank.

By signing this Application, you consent to participate in Schwab's Cash Features Program, as described in the Cash Features Program Disclosure Statement, and you also consent to having the Bank Sweep feature as your designated Cash Feature.

You understand and agree that Schwab can (1) make changes to the terms and conditions of the Cash Features Program; (2) make changes to the terms and conditions of any Cash Feature; (3) change, add, or discontinue any Cash Feature; (4) change your investment from one Cash Feature to another if you become ineligible for your current Cash Feature or your current Cash Feature is discontinued; and (5) make any other changes to the Cash Features Program or Cash Feature as allowed by law. Schwab will notify you in writing of changes to the terms of the Cash Features, changes to the Cash Features we make available, or changes to the Cash Features Program prior to the effective date of the proposed changes.

10. Account Authorization and Account Holder Signature(s)

Please read and sign below.

By signing this Application, you acknowledge that you have received and read a copy of the attached Application Agreement, which contains a predispute arbitration provision. You acknowledge that your signature signifies and constitutes your agreement that this account and your relationship with Schwab will be governed by the Application Agreement and all incorporated agreements and disclosures, including, but not limited to, the Schwab One Account Agreement and the *Charles Schwab Pricing Guide*, each as amended from time to time (the "Agreement and Disclosures"). You understand there are fees associated with establishing, maintaining, engaging in transactions in, and transferring assets out of this account. Unless you have declined the margin feature, you acknowledge that securities securing loans from Schwab may be lent to Schwab and lent by Schwab to others. You also acknowledge that if you trade "on margin," you are borrowing money from Schwab and that you understand the requirements and risks associated with margin as summarized in the Margin Disclosure Statement included with this Application.

You also acknowledge that the securities products purchased or sold in a transaction with Schwab (i) are not insured by the Federal Deposit Insurance Corporation (FDIC); (ii) are not deposits or other obligations of Schwab and are not guaranteed by Schwab Bank; and (iii) are subject to investment risks, including possible loss of the principal invested.

For purposes of this Account Application and the attached Application Agreement, the terms "you," "your" and "account holder" refer to each person who signs this Account Application. The terms "we," "us," "our" and "Schwab" refer to Charles Schwab & Co., Inc. The term "Schwab Bank" refers to Charles Schwab Bank.

I certify, under penalties of perjury, that (1) the number shown on this Application is my correct Taxpayer Identification Number; and (2) I am not subject to backup withholding due to a failure to report interest and dividend income; and (3) I am a U.S. person (a U.S. citizen or U.S. resident alien); and (4) the FATCA code entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

- **If you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return, you must check the following box indicating that item (2) above does not apply:**

If you are submitting this Application for an account you hold in the U.S., item (4) above does not apply.

The Internal Revenue Service does not require your consent to any provision of this document other than the certifications required to avoid backup withholding.

The Agreement with Schwab includes a predispute arbitration clause. You acknowledge receipt of the predispute arbitration clause contained in Section 14, page 2, of the Application Agreement.

X

Signature: Account Holder

Today's Date (mm/dd/yyyy)

Print Name

X

Signature: Additional Account Holder

Today's Date (mm/dd/yyyy)

Print Name

11. Return Instructions

- **Upload** online with secure messaging (if you are an existing client and have online access to your Account).
 1. Go to Schwab.com and log in to your Account.
 2. Click the envelope icon to access Message Center, and then click Upload Document.
- **Fax** to 1-888-526-7252.
- **Bring** to your nearest Schwab branch (visit schwab.com/branch for locations).

Schwab One[®] Brokerage Account Application Agreement

Client Copy

- This agreement relates to your account and is part of the Account Agreement between each account holder and Charles Schwab & Co., Inc. ("Schwab").
- Please read and retain for your files.
- You do not need to return this agreement to Charles Schwab.

Section 1: Scope of Agreement.

Your agreement with Schwab consists of the terms set forth in this Application Agreement and the terms set forth in the Schwab One Account Agreement, which incorporates the *Charles Schwab Pricing Guide* and a number of other important disclosures. The Schwab One Account Agreement is provided with this Application or at the opening of your account. You agree to contact Schwab if you do not receive the Schwab One Account Agreement.

In addition, you may in the future receive from Schwab supplemental terms or disclosures that pertain to certain account types, service features and benefit packages. These supplemental terms and disclosures, this Application Agreement and the Schwab One Account Agreement are collectively referred to as the "Agreement and Disclosures." You agree to read the Agreement and Disclosures carefully and retain copies for your records.

Section 2: Acceptance of Agreements and Disclosures.

You agree that the Agreement and Disclosures govern all aspects of your relationship with Schwab, including all transactions between Schwab and you and all products and services now or in the future offered through Schwab. Schwab may rely on your use of Schwab's products and services as evidence of your continued acceptance of the Agreement and Disclosures.

Section 3: Your Representations and Warranties.

You represent and warrant that: (a) you are of legal age in the state in which you live and you are authorized to enter into this Agreement; (b) you have supplied accurate information in your Account Application; (c) no one except the Account Holders listed on the Account Application (and if community property is held, the Account Holders' spouses) has an interest in the account; (d) no additional authorizations from third parties are required for you to open the account and effect transactions therein; (e) except as you have otherwise indicated on your Account Application or in writing to us, (i) you are not an employee of or affiliated with any securities exchange or member firm of any exchange, the Financial Industry Regulatory Authority (FINRA) or any securities firm, bank, trust company, or insurance company; and (ii) you are not a director, 10% beneficial shareholder, policy-making officer, or otherwise

an "affiliate" (as defined in Rule 144 under the Securities Act of 1933) of a publicly traded company; and (f) this Application Agreement, as amended from time to time, is a legal, valid and binding obligation, enforceable against you in accordance with its terms.

Section 4: Account Handling.

Schwab will automatically hold all of your securities purchased, sales proceeds, dividends and interest. Schwab will also release your name, address and securities positions to companies in which we hold securities for your account upon request, unless you notify us otherwise in writing. If you maintain more than one account at Schwab, you authorize Schwab to transfer assets between your accounts when no written authorization is requested.

Section 5: Responsibility for Investment Decisions.

You agree that you and any agent under a power of attorney or Investment Advisor (if you have one) are solely responsible for investment decisions in your account, including whether to buy or sell a particular security. Unless required by law, or unless Schwab provides advice to you that is clearly identified as an individualized recommendation for you, you understand that Schwab has no obligation to determine whether a particular transaction, strategy, or purchase or sale of a security is in your best interest. Your obligation includes an affirmative duty to monitor and stay informed about your account and your investments and respond to changes as you deem appropriate. Unless we otherwise agree with you in writing, Schwab does not monitor your account(s) or investments and has no obligation to update an investment recommendation, financial advice, or financial plan we may give you. Such recommendation, financial advice, or financial plan only applies at the point in time we provide it to you.

You acknowledge that Schwab does not provide tax or legal advice.

Section 6: Payment of Indebtedness.

You agree to make payment of any indebtedness related to your account, including, but not limited to, any such indebtedness that results from instructions provided to Schwab by you, your agent or any attorney-in-fact under a power of attorney or Investment Advisor authorized to make transactions in your account. We may elect anytime, with or without notice, to make any debit balance or other obligation related to your account immediately due and payable. We

may report any past-due account to a consumer and/or securities credit reporting agency. We may also refer your account to a collection agency.

Section 7: Granting a Lien on Your Accounts.

As security for the repayment of all present or future indebtedness owed to us by each Account Holder, each Account Holder grants to us a first, perfected and prior lien on, a continuing security interest in, and right of set-off with respect to, all property that is, now or in the future, held, carried or maintained for any purpose in or through Schwab, and, to the extent of such Account Holder's interest in or through, any present or future account with us or our affiliates in which the Account Holder has an interest. In the event of a breach or default by you under this Agreement, Schwab will have the rights and remedies available to a secured creditor under all applicable laws in addition to the rights and remedies provided in this Agreement.

If you owe money to Schwab as the result of activity in your account and there are assets available in any non-retirement brokerage account that you hold at Schwab which could fully or partially satisfy the debt, you agree that, upon Schwab's written demand, you will execute all documents necessary to effect a transfer from your non-retirement brokerage account and agree to pay or cause such funds to be paid immediately to Schwab in order to satisfy your indebtedness to Schwab.

Section 8: Liquidations.

Whenever it is necessary for our protection or to satisfy a margin deficiency, debit or other obligation owed us, we may (but are not required to) sell, assign and deliver all or any part of the property securing your obligations, or close any or all transactions in your account. We may choose which property to buy or sell, which transactions to close and the sequence and timing of liquidation. We may take such actions on whatever exchange or market and in whatever manner (including public auction or private sale) that we choose in the exercise of our business judgment. You agree not to hold us liable for the choice of which property to buy or sell or of which transactions to close or for timing or manner of liquidation or any tax consequences from such actions.

In certain circumstances we may, at our sole discretion, liquidate your entire margin loan balance to satisfy a margin call. You agree not to hold us liable for taking such action. We may



transfer property from any non-retirement brokerage account in which you have an interest to any other brokerage account in which you have an interest, regardless of whether there are other account holders on either account, if we determine that your obligations are not adequately secured or to satisfy a margin deficiency or other obligation. You agree to pay on demand any account deficiencies after liquidation, whether liquidation is complete or partial.

All of the above may be done without demand for margin or notice of purchase, sale, transfer or cancellation to you. No demand for margin or notice shall impose on Schwab any obligation to make such demand or provide such notice to you in the future. Any such notice or demand is hereby expressly waived, and no specific demand or notice shall invalidate this waiver.

Section 9: Interest on Debit Balances.

We will charge and compound interest on your debit balances (whether in a Margin or Cash Account) according to our Disclosure of Credit Terms and Policies.

Section 10: Borrowing Money and Margin Trading.

All margin transactions are subject to our Disclosure of Credit Terms and Policies and our Margin Disclosure Statement. You agree not to enter an order for a margin transaction until you have read and understood the Disclosure of Credit Terms and Policies and the Margin Disclosure Statement.

Section 11: Loan Consent.

You agree that property held in your Margin Account, now or in the future, can be borrowed (either separately or together with the property of others) by us (acting as principal) or by others. You agree that Schwab may receive and retain certain benefits (including, but not limited to, interest on collateral posted for such loans) to which you will not be entitled. You acknowledge that, in certain circumstances, such borrowings could limit your ability to exercise voting rights or receive dividends, in whole or in part, with respect to the property lent. You understand that for property that is lent by Schwab, the dividends paid on such property will go to the borrower. No compensation or other reimbursements will be due to you in connection with such borrowings. However, if you are allocated a substitute payment in lieu of dividends, you understand that such a payment may not be entitled to the same tax treatment as may have been applied to the receipt of a dividend. You agree that Schwab is not required to compensate you for any differential tax treatment between dividends and payments in lieu of dividends. Schwab may allocate payments in lieu of dividends by any mechanism permitted by law, including by using a lottery allocation system.

Section 12: Using the Check and Visa® Platinum Debit Card Features.

If you have requested check or Visa Platinum Debit Card features through your account, you authorize checks and Visa Platinum Debit Cards to be issued as indicated in your Account Application. You agree that each Account Holder is authorized to write checks and engage in Visa Platinum Debit Card transactions, and you understand that if the checking feature is terminated, your Visa Platinum Debit Card will be automatically cancelled.

Section 13: Verification.

You authorize Schwab to inquire from any source, including a consumer reporting agency, as to your identity (as required by federal law), creditworthiness and ongoing eligibility for the account of the Account Holders, any other person referred to on this Application, or any person who Schwab is later notified is associated with or has an interest in the account (as well as such persons' spouses if they live in a community-property jurisdiction) at account opening, at any time throughout the life of the account, and thereafter for debt collection or investigative purposes.

Section 14: Required Arbitration Disclosures.

Regulatory authorities require that any brokerage agreement containing a predispute arbitration agreement must disclose that this agreement contains a predispute arbitration clause. This Agreement contains a predispute arbitration clause. By signing an arbitration agreement, the parties agree as follows:

1. All parties to this Agreement are giving up the right to sue each other in court, including the right to a trial by jury, except as provided by the rules of the arbitration forum in which a claim is filed.
2. Arbitration awards are generally final and binding; a party's ability to have a court reverse or modify an arbitration award is very limited.
3. The ability of the parties to obtain documents, witness statements and other discovery is generally more limited in arbitration than in court proceedings.
4. The arbitrators do not have to explain the reason(s) for their award unless, in an eligible case, a joint request for an explained decision has been submitted by all parties to the panel at least 20 days prior to the first scheduled hearing date.
5. The panel of arbitrators will typically include a minority of arbitrators who were or are affiliated with the securities industry.
6. The rules of some arbitration forums may impose time limits for bringing a claim in arbitration. In some cases, a claim that is ineligible for arbitration may be brought in court.
7. The rules of the arbitration forum in which the claim is filed, and any amendments

thereto, shall be incorporated into this Agreement.

No person shall bring a putative or certified class action to arbitration, nor seek to enforce any predispute arbitration agreement against any person who has initiated in court a putative class action; or who is a member of a putative class who has not opted out of the class with respect to any claims encompassed by the putative class action until:

1. the class certification is denied;
2. the class is decertified; or
3. the customer is excluded from the class by the court.

Such forbearance to enforce an agreement to arbitrate shall not constitute a waiver of any rights under this Agreement except to the extent stated herein.

Section 15: Arbitration Agreement.

Any controversy or claim arising out of or relating to (i) this Agreement, any other agreement with Schwab, an instruction or authorization provided to Schwab or the breach of any such agreements, instructions, or authorizations; (ii) the Account, any other Schwab account or Services; (iii) transactions in the Account or any other Schwab account; (iv) or in any way arising from the relationship with Schwab, its parent, subsidiaries, affiliates, officers, directors, employees, agents or service providers ("Related Third Parties"), including any controversy over the arbitrability of a dispute, will be settled by arbitration.

This arbitration agreement will be binding upon and inure to the benefit of the parties hereto and their respective representatives, attorneys-in-fact, heirs, successors, assigns and any other persons having or claiming to have a legal or beneficial interest in the Account, including court-appointed trustees and receivers. This arbitration agreement will also inure to the benefit of third-party service providers that assist Schwab in providing Services ("Third-Party Service Providers") and such Third-Party Service Providers are deemed to be third-party beneficiaries of this arbitration agreement.

The parties agree that this arbitration agreement will apply even if the application to open the Account is denied and will survive the closure of your Account and/or the termination of services rendered under this Agreement.

Such arbitration will be conducted by, and according to the securities arbitration rules and regulations then in effect of, the Financial Industry Regulatory Authority (FINRA) or any national securities exchange that provides a forum for the arbitration of disputes, provided that Schwab is a member of such national securities exchange at the time the arbitration is initiated. Any party may initiate arbitration by filing a written claim with FINRA or such eligible national securities exchange. If arbitration before FINRA or an eligible national securities



exchange is unavailable or impossible for any reason, then such arbitration will be conducted by, and according to the rules and regulations then in effect of, the American Arbitration Association (AAA). If arbitration before the AAA is unavailable or impossible for any reason, the parties agree to have a court of competent jurisdiction appoint three (3) arbitrators to resolve any and all disputes or controversies between or among the parties. Each party shall bear its own initial arbitration costs, which are determined by the rules and regulations of the arbitration forum. In the event of financial hardship, the arbitration forum may waive certain costs in accordance with such rules. At the conclusion of the hearing, the arbitrators will decide how to assess the costs of the arbitration among the parties.

Any award the arbitrator makes shall be final and binding, and judgment on it may be entered in any court having jurisdiction. This arbitration agreement shall be enforced and interpreted exclusively in accordance with applicable federal laws of the United States, including the Federal Arbitration Act. Any costs, fees or taxes involved in enforcing the award shall be fully assessed against and paid by the party resisting enforcement of said award.

For FINRA arbitrations, FINRA will appoint a single public arbitrator in customer cases decided by one arbitrator. In customer cases decided by three arbitrators, investors have the option of choosing an arbitration panel with two public arbitrators and one nonpublic arbitrator (Majority-Public Panel Rule) or a panel of all public arbitrators (Optional All-Public Panel Rule). If the customer declines to elect a panel selection method in writing by the applicable deadline, the Majority-Public Panel Rule for selecting arbitrators will apply.

All notices from one party to the other involving arbitration shall be considered to have been fully given when so served, mailed by first-class, certified or registered mail, or otherwise given by other commercially accepted medium of written notification.

In addition to the above provisions, if a party to this Agreement is or becomes a non-U.S. resident at the time of any controversy subject to this arbitration agreement, such party acknowledges and agrees to the following additional provisions:

1. The rules of the organization administering the arbitration specifically provide for the formal designation of the place at which the arbitration is to be held.
2. Entering into this Agreement constitutes consent to submit to the personal jurisdiction of the courts of the state of California, U.S.A., to interpret or enforce any or all of these arbitration provisions. Judgment on any arbitration award may be entered in any court having jurisdiction, or application may be made to such court for

judicial acceptance of the award and an order of enforcement, as the case may be.

3. The exclusive language to be used by the parties and the arbitrators in the arbitration proceedings shall be English. Any party wishing an interpreter shall make all arrangements directly with the interpreter and shall assume all costs of the service.
4. If a party is a foreign government or state, state-owned or state-operated enterprise or other instrumentality of a foreign government or state, such party waives all rights of sovereign immunity and neither the Federal Act of State doctrine nor the doctrine of sovereign immunity shall apply insofar as any enforcement in courts located in the U.S.A. is concerned.

Section 16: Electronic Copies.

The electronically stored copy of your (or your agent's) signature, any written instructions or authorizations, the Account Application and the Agreement and Disclosures are considered to be the true, complete, valid, authentic and enforceable record, admissible in judicial, administrative or arbitration proceedings to the same extent as if the documents and records were originally generated and maintained in printed form. You agree to not contest the admissibility or enforceability of Schwab's electronically stored copy of such documents in any proceeding between you and Schwab.

Section 17: Float.

You agree that Schwab will retain as compensation for services your account's proportionate share of any interest earned on aggregate cash balances held in Schwab's bank account with respect to (1) assets awaiting investment or (2) assets pending distribution from your account. Such interest retained by Schwab shall generally be at money market rates. Schwab's receipt of such compensation is further described in the Agreements and Disclosures.

Section 18: Unclaimed Property.

If no activity occurs in the account within the time period specified by applicable state law, the account may be transferred to the appropriate state.

Section 19: Information About SIPC.

To obtain information about Securities Investor Protection Corporation (SIPC), including an explanatory SIPC brochure, please contact SIPC at www.sipc.org or 1-202-371-8300.

Section 20: Impartial Lottery for Securities Subject to Partial Call or Partial Redemption.

If Schwab holds securities for you in street name, in Schwab's name, or in bearer form that are subject to partial call or partial redemption, then in the case of a partial call or partial redemption Schwab will use an impartial lottery system to select the securities to be called or redeemed from among accounts holding those securities.

For a description of Schwab's lottery system, please visit www.schwab.com/PartialCalls. If you would like a printed description of Schwab's lottery system mailed to you, please contact a Schwab representative at 1-800-435-4000.



Margin Disclosure Statement

www.schwab.com | 1-800-435-4000 (inside the U.S.) international.schwab.com | +1-415-667-8400 (outside the U.S.)

- This is important information regarding margin borrowing, if you have requested the margin feature on your brokerage account.
- Please retain this document for your files.
- When using margin, please keep these important rules and conditions in mind.
- A complete list of terms and conditions pertaining to margin trading and short selling, including credit terms and policies, can be found in the Account Agreement. The Account Agreement will be provided to you after account opening or you can access it at any time on our website or by calling us. Please read this important document before opening a margin account.
- For questions regarding margin borrowing, please contact us at the numbers listed above. For clients of independent investment advisors, please call your advisor directly or call Schwab Alliance at 1-800-515-2157.

When considering a margin loan, you should determine how the use of margin fits your own investment philosophy. It is important that you fully understand the risks, rules, and requirements involved in trading securities on margin.

The following paragraphs highlight some of the critical aspects of margin trading:

Margin trading increases your level of market risk.

Margin trading increases your buying power, allowing you to purchase a greater amount of securities with your investing dollar. Therefore, your exposure to market volatility increases—a declining market could result in even greater losses. *A decline in the value of your securities that you purchase on margin can require you to provide additional funds to Schwab in order to avoid the forced sale of those securities or other securities in your account.*

Your downside is not limited to the collateral value in your margin account.

When you buy securities on margin, you are borrowing money from Schwab for part of your transactions. Securities and other assets in your Schwab account(s) are pledged as collateral to secure this loan. These margin transactions are riskier and involve the possibility of greater loss than transactions where you are not borrowing money. If the securities in your account decline in value, so does the value of the collateral supporting your loan. When the value of the collateral falls below the maintenance margin requirements, or Schwab's higher "house" requirements, Schwab can move to protect its position. In order to cover margin deficiencies, Schwab may issue you a margin call—a request for additional cash—or sell securities from your account. If a sale does not cover the deficiency, you will be responsible for any shortfall.

Schwab may initiate the sale of any securities in your account, without contacting you, to meet a margin call.

Schwab will attempt to involve you in the case of margin deficiency; however, market conditions can require the firm to quickly sell any of your securities without your consent. Because the securities are collateral for the margin loan, Schwab has the right to decide which security to sell in order to protect its interests. Even if Schwab has contacted you and provided a specific date by which you can meet a margin call, the firm can still take necessary steps to protect its financial interests, including immediately selling the securities without prior notice to you.

Schwab's "house" initial and maintenance margin requirements may exceed those established by the Federal Reserve Board and/or the Financial Industry Regulatory Authority, Inc. Please call Schwab for current margin requirements.

Schwab retains the right to change its initial margin requirements at any time and without prior notice. We may also impose anytime and without prior notice more stringent requirements on positions that in our sole

discretion involve higher levels of risk; for example, higher limits may apply for thinly traded, speculative or volatile securities, or concentrated positions of securities.

Schwab may increase its "house" maintenance margin requirements at any time and is not required to provide you with advance written notice.

Changes in Schwab's policy regarding "house" maintenance margin requirements often take effect immediately and can result in the issuance of a maintenance margin call. Your failure to satisfy the call may cause Schwab to liquidate or sell securities in your account.

Schwab retains absolute discretion to determine whether, when and in what amounts we will require additional collateral. For example, we can require additional collateral if an account contains only one security or a large concentration of one or more securities; or low-priced, thinly traded or volatile securities; or if some of your collateral is or becomes restricted or non-negotiable or non-marginable. We may also consider market conditions, your financial resources, or other factors deemed by us to be relevant given the circumstances at the time.

You are not entitled to an extension of time on a margin call.

While an extension of time to meet margin requirements might be available to customers under certain conditions, a customer does not have a right to the extension.

Some accounts that carry a margin loan balance and hold dividend paying securities may receive a "substitute income payment in lieu of a dividend" (PIL). This payment may be taxable as ordinary income. Taxable accounts that receive a PIL instead of a qualified dividend may also receive a supplemental credit from Schwab. This will be identified on customer statements as a "Schwab substitute income credit." However, when Schwab can identify that a dividend is nonqualified, we will not credit your account with this additional payment.

- This credit is NOT "payment in lieu," and is unrelated to any payment from either the security issuer or the borrower.
- It is a discretionary credit from Schwab which may be discontinued in the future with or without notice.*
- It may be subject to tax at your ordinary income tax rate. Please consult your tax advisor about your specific tax situation.
- Because individual tax situations differ, Schwab cannot precisely calculate the additional tax costs a client might incur. Therefore, we do not intend, nor should clients expect, for this payment to be an exact reimbursement of any excess tax cost.

*Please refer to the "Loan Consent" section of your Account Agreement which states that no compensation is due in connection with such loans and that Schwab "is not required to compensate you for any differential tax treatment between dividends and payments in lieu of dividends."



Cash Features Program General Terms and Conditions

The automatic investment of your free credit balance, including the frequency and the amount of each sweep, is governed by the terms and conditions set forth in the Cash Features Program Disclosure Statement and in the Account Agreement applicable to your account. The material in this document is intended for informational purposes only. If there is any conflict between the descriptions in this document and the terms of the Cash Features Program Disclosure Statement, the Cash Features Program Disclosure Statement will control.

How the Cash Features Program Works	<p>Schwab's Cash Features Program is the service (described in the Cash Features Program Disclosure Statement) that we provide to automatically invest, or "sweep," the free credit balance in your account into a liquid investment to earn interest. The program permits you to earn income while you decide how those funds should be invested longer term.</p>
Available Cash Features	<p>The available cash features currently consist of:</p> <ul style="list-style-type: none"> ▪ The free credit balance in your eligible account (the "Schwab One® Interest feature"), on which Schwab pays interest; ▪ Interest-bearing deposit accounts at one or more Program Banks (the "Bank Sweep feature" for most accounts and the "Bank Sweep for Benefit Plans feature" for retirement plan accounts); and ▪ For some accounts, an affiliated money market mutual fund (the "Money Fund Sweep feature").
Eligibility	<p>Eligibility for each cash feature is based on the registered ownership and the type of account. Not all account registrations and account types will be eligible for all cash features. Some account registrations and account types will be eligible for only one cash feature. Please see your Account Application and the Cash Features Program Disclosure Statement for more complete eligibility details.</p>
Duty to Monitor Eligibility for Cash Features	<p>It is your responsibility to monitor your eligibility for the cash features and determine the best cash feature available to you. Schwab is not responsible for contacting you if you are, or later become, eligible for other higher-yielding cash features.</p>
Interest Rates and Yields	<p>The interest rates and yields for the different cash features vary over time. There is no guarantee that the interest rate and yield on any particular cash feature will be or will remain higher than the interest rate and yield on any other cash features over any period. Current interest rates and yields can be obtained by contacting your independent investment advisor or your Financial Consultant, or by calling us at 1-800-435-4000. If you already have an account, you can visit our website at www.schwab.com/sweep. If your account is an Advisor Services account, please contact your advisor, visit www.schwab.com/SA_sweep, or call Schwab Alliance at 1-800-515-2157.</p> <ul style="list-style-type: none"> ▪ The interest rate on the Schwab One Interest feature is set by Schwab. We have the option to pay as low a rate as possible consistent with our view of prevailing market and business conditions. With certain exceptions, the rate may be tiered based upon the overall free credit balance within your account. ▪ The interest rates paid on the Bank Sweep feature are set by the Affiliated Program Banks, and may be set as low as possible consistent with prevailing market and business conditions. Retirement accounts will be paid a reasonable rate consistent with applicable legal and regulatory requirements. With certain exceptions, the rate may be tiered based upon your account type and the combined amount of your account's Bank Sweep deposits at the Program Bank(s).

Investment and Insurance Products: Not a Deposit ▪ Not FDIC Insured ▪ Not Insured by any Federal Government Agency ▪ No Bank Guarantee ▪ May Lose Value



<p>Interest Rates and Yields (Continued)</p>	<ul style="list-style-type: none"> ▪ The interest rates paid on the Bank Sweep for Benefit Plans feature will be a reasonable rate consistent with applicable legal and regulatory requirements. This may be lower than some competitors' rates. Interest rates do not vary by tiers and do not vary based on your cash balances. ▪ The money market mutual fund offered through the Money Fund Sweep feature seeks to achieve the highest yield (less fees and expenses) consistent with prudence and the fund's investment objectives. <p>Cash features are not intended to be long-term investments, and yields on any of our cash features may be lower than those of similar investments or deposit accounts offered outside the Cash Features Program. If you desire to maintain cash balances for other than a short-term period and/or are seeking the highest yields currently available in the market, please contact your Schwab representative or visit www.schwab.com/cash-investments for investment options that may be available outside of the Cash Features Program to help maximize your return potential consistent with your investment objectives and risk tolerance. If your account is an Advisor Services account, please contact your advisor, visit www.schwab.com/SA_cash, or call Schwab Alliance at 1-800-515-2157.</p>
<p>Benefits to Schwab</p>	<p>We charge fees and receive certain benefits under the different cash features. We share a portion of these fees and benefits with our investment professionals. Because of these fees and benefits, we have a financial incentive to select the particular cash features included in the Cash Features Program.</p>
<p>Differing Risks and Account Protection</p>	<p>The different cash features are subject to different risks and account protection:</p> <ul style="list-style-type: none"> ▪ The Schwab One® Interest feature is not subject to market risk and value loss but is subject to the risk of Schwab's failure. In the unlikely event that Schwab fails, cash is eligible for SIPC coverage up to a limit of \$250,000 (including principal and interest) per client in each insurable capacity (e.g., individual or joint). Free credit balances held at Schwab are not insured or guaranteed by the FDIC. ▪ The Bank Sweep and Bank Sweep for Benefit Plans features are not subject to market risk and value loss but are subject to the risk of the failure of one or more of the Program Banks. Please review the Cash Features Program Disclosure Statement for a list of the Program Banks (www.schwab.com/cashfeaturesdisclosure). Certain conditions must be satisfied for FDIC insurance coverage to apply. In the unlikely event that one or more of the Program Banks fails, deposits at each bank are eligible for FDIC insurance protection up to a limit of \$250,000 (including principal and interest) per depositor in each insurable capacity (e.g., individual, joint, and plan participant). This limit includes any other deposits you may have at that bank outside of the Bank Sweep and Bank Sweep for Benefit Plans features. You are responsible for monitoring your bank balances in the Bank Sweep and Bank Sweep for Benefit Plans features and the balances in any of your other bank accounts at each Program Bank to determine if these, in total, exceed FDIC insurance limits. Monies held in both features are not covered by SIPC. ▪ The Money Fund Sweep feature invests in high-quality, short-term securities and seeks to maintain a stable value, but is subject to market risks and potential value loss. It is not a bank account and is not subject to FDIC insurance protection. It is instead covered by SIPC, which protects against the custodial risk (and not a decline in market value) when a brokerage firm fails by replacing missing securities and cash up to a limit of \$500,000, of which \$250,000 may be cash. Shares held through the Money Fund Sweep feature are not considered cash, but are treated as securities for SIPC coverage.

Investment and Insurance Products: Not a Deposit ▪ Not FDIC Insured ▪ Not Insured by any Federal Government Agency ▪ No Bank Guarantee ▪ May Lose Value



Important Information About Your Informed Consent to Receive Paperless Documents

The Purpose and Effect of Your Consent

This disclosure and informed consent applies to all communications for those accounts, products and services offered in person or available via schwab.com, schwaballiance.com, or via a Schwab mobile website or mobile application used to access those accounts, products or services, to the extent they are not otherwise governed by the terms of a separate disclosure and informed consent.

We are required to provide to you "in writing" certain records and disclosures about our relationship and transactions in your account. You are entitled to receive those documents on paper. With your affirmative consent, we can provide the documents to you electronically instead via the Schwab Paperless Documents program ("Paperless Documents"). The information below will help you understand the conditions and requirements relating to Paperless Documents. You can always find the most up-to-date version of this important information at schwab.com/paperless_consent.

Paperless Documents categories include: tax forms, trade confirmations, shareholder materials, statements and account documents (e.g., account statements and other documents associated with the account, including account agreements and amendments thereto, program disclosures, fund prospectuses, and regulatory and other disclosures, including investment advisory disclosures and service notices). Each of these document categories is described in detail below. If you are opening an account, the account agreements and account and program disclosures delivered to you as part of the account opening process are also included in Paperless Documents. Electronic documents specific to your transactions and account will be available online for up to 10 years from the date of initial delivery. Your consent to receive documents electronically is not limited in duration and does not expire.

Depending on where you reside, the initial scope of your Paperless Documents enrollment, and whether you have made modifications to your enrollment, not all document categories may apply to you. Certain documents that are not currently included in Paperless Documents may continue to be delivered to you via postal mail. In the future, some or all of these documents may be added to Paperless Documents and made available to you electronically in accordance with your informed consent to this disclosure. If you are uncertain which documents are covered by your Paperless Documents enrollment, please check online at schwab.com/paperless_services or call or email Schwab or Schwab Bank using the contact information below.

For additional information about Schwab Bank account statements, see the "Addendum" on the following page.

You indicate your consent to Paperless Documents by providing an email address and signing an account agreement, or by clicking or touching an "I consent" or other button indicating assent to or acceptance of the conditions and requirements relating to Paperless Documents, and we record your consent. The method of consent may depend on whether you are opening an account or separately enrolling in Paperless Documents for an existing account. If you do not provide consent, Schwab or Schwab Bank will send you paper copies. Your consent will be effective until you cancel your enrollment in Paperless Documents or Schwab or Schwab Bank notifies you that the program is discontinued. If you are a joint account holder, your consent binds the other account holder.

By providing consent, you confirm that you have the ability to access Schwab on the web, and the ability to open, view, save, retain, and print PDF documents as described below. These abilities demonstrate that you can receive the documents we will deliver to you. You also confirm that you have provided a valid email address as part of the account opening or Paperless Documents enrollment process.

We may, if necessary and at our discretion, end your participation in Paperless Documents, or change the terms and conditions relating to Paperless Documents and electronic communications. It is your responsibility to review any updates in a timely manner. We will provide you with notice of any discontinuation or update as required by law.

Our Contact Information to Request Paper or Ask Questions

To access the document and print a copy, log in to your Schwab or Schwab Bank account, select the "Accounts" tab, then select "Statements." To

request paper, ask questions about, or report problems concerning Paperless Documents, you may contact us as follows:

To contact us by email, log in to schwab.com, click "Contact Us," and then click "Send a Secure Message." Advisor Services clients, please log in to schwaballiance.com. To contact us by phone:

- Investor Services clients: 1-800-435-4000.
- Schwab Bank Investor Checking™ (or other Schwab Bank) clients: 1-888-403-9000.
- Clients in the U.K.: 00 800 0826-5001.
- Clients in other countries: +1-415-667-8400.
- Advisor Services clients: Contact your independent advisor or call 1-800-515-2157.
- Schwab Intelligent Portfolios Solutions™ clients: 1-855-694-5208.
- Institutional Intelligent Portfolios® clients: 1-877-805-3399.

To Withdraw Your Consent

When you change your preference back to postal mail delivery, this cancels your enrollment in Paperless Documents and withdraws your consent for the document categories you indicate. You can do this by logging in to schwab.com/paperless_services, or by calling or emailing Schwab or Schwab Bank using the contact information above. Allow 48 hours for processing. Your consent will remain effective for other document categories for which you maintain a paperless delivery preference.

Important note for Schwab Advisor Services clients: Canceling or modifying your enrollment may make your account(s) ineligible for lower commission rates, and the commissions you pay can increase.

Important note for Schwab Intelligent Portfolios Solution and Institutional Intelligent Portfolios clients: Intelligent Portfolios is an all-electronic service. If in the future you request paper documents, withdraw your consent, or are unable to receive Paperless Documents, Schwab may terminate your account.

Electronic Notification When a Paperless Document Is Ready

We send you an email to let you know a document is available. For some documents, the email itself will be the paperless document. For other documents, the email will contain a link that will allow you to access or download the document, and your login may be required prior to such access.

Keeping Your Email Address Current and Actions Schwab or Schwab Bank Will Take If There Is a Problem

Please note that after three consecutive months of unsuccessful electronic delivery attempts of your tax forms, trade confirmations, or statements and account documents, your account(s) will revert back to postal mail delivery. This will cancel your enrollment in Paperless Documents and withdraw your consent to receive Paperless Documents.

It is your responsibility to notify Schwab or Schwab Bank of any change in your email address by logging in to the Schwab site and going to Service > My Profile > Email Addresses or using the contact information above. In addition to the unenrollment process outlined above, if we receive any indication either that the email notification did not reach you successfully or that there is a problem with your email address or service, we will take the following actions:

- **Tax Forms**—Send a letter by postal mail within two business days to inform you that we were unable to deliver your tax form electronically. In certain circumstances, as may be required by law or regulation or for other reasons, we may send you the tax form itself by postal mail within the time period prescribed by the relevant legal or regulatory requirements.
- **Trade Confirmation**—Send a paper copy of trade confirmation by postal mail within 24 hours. Also send a letter by postal mail to inform you that we were unable to deliver your Trade Confirmation to you electronically.



- **Statements and Account Documents**—Send a letter by postal mail informing you that we were unable to deliver your statement or account document electronically.
- **Shareholder Materials**—Send a paper copy of the shareholder materials via postal mail within 24 hours. We will send you a letter informing you that we were unable to deliver your shareholder materials electronically. The account will be unenrolled from Paperless Documents, and we will begin to send you paper shareholder materials.

Hardware and Software Requirements

Paperless Documents requires you to have access to a device (computer or smartphone) with Internet service and an active email account and address, along with the following:

- A current version of a common Internet browser, with JavaScript enabled.
- A current version of a program, such as Adobe® Reader®, that accurately reads and displays PDF documents. If you do not have Adobe Acrobat installed on your device, you can download the free software at adobe.com.
- An operating system on your device that supports the above.
- A printer that connects to your device, if you wish to print documents.
- Electronic storage connected to your device, if you wish to retain records in electronic form. (If you are using your computer, just save documents to your local hard drive.)

If you use your smartphone, you must access the full Schwab website to view and print your documents. If you have questions relating to hardware and software requirements, please call or email Schwab using the contact information on the previous page.

Security and Privacy Information

Unless expressly stated, email notifications for Paperless Documents are not encrypted. For security and confidentiality, unencrypted emails will not include your name, full account number, or any other personal identifier. Be aware, however, that some email addresses may use part of your name or your entire name. If you use a work email address, your employer or other employees may have access to your email. To help you identify your account, we may include some portion, but not all, of your account number. Schwab or Schwab Bank may use a vendor to deliver Paperless Documents.

Whether Schwab, Schwab Bank, or a vendor delivers the documents, Schwab's privacy policy applies.

Records and Disclosures Included in Schwab and Schwab Bank's Paperless Documents Program

Tax Forms ("eTax Documents")

A tax document provides important information you need to complete your tax returns. Much of the information we provide in tax documents is also reported to the IRS. This includes any corrected tax documents and accompanying notices. When a tax document is ready, we will send an email notification with the subject line "IMPORTANT TAX RETURN DOCUMENT AVAILABLE" and containing a web link to the document available after you log in.

Trade Confirmations ("eConfirms")

A trade confirmation is an official record of your securities transaction. It includes the price, number of shares, and the commission we charge you, as well as disclosures required under federal law. If you choose to receive paperless trade confirmations, the terms and conditions of your transaction will appear in the email and on a web page you can link to from the email. Your consent to receive paperless trade confirmations also includes paperless delivery of prospectuses or other regulatory information we provide to you at the time of your trade. Your consent to receive paperless trade confirmations also covers paperless delivery of Trade Confirmation Reports (TCRs) if you elect this alternative as part of your Managed Account enrollment.

Statements and Account Documents ("eStatements")

An account statement provides important information about your account, including the price and quantity of securities you hold, the transactions

conducted, other activity in your account, and terms and conditions governing your account. Account statements are sent at the end of each month or quarter depending on activity in your account. With your account statements, we often include accompanying account-related notices and other regulatory information, including, but not limited to, Schwab's Statement of Financial Condition, pricing changes, changes to payment features, privacy policy, annual notices, amendments to your account agreements, and any other documents, notices, and disclosures required by law or regulatory rules to be provided to you. At account opening and from time to time thereafter, we also send you notifications about your account. Collectively, we call these documents, notices, and disclosures "account documents." When you consent to paperless account statements, you also consent to paperless account documents.

Investment Advisory Program Disclosures and Notices (A Sub-Category of Account Documents)

Your consent to paperless Statements and Account Documents encompasses regulatory and other disclosures, which includes but is not limited to investment advisory program disclosures, brochure supplements with information about individual Schwab representatives, and related materials such as periodic updates or annual summaries of any changes to those documents ("Form ADV Disclosures") as Schwab makes these available in the future. The investment advisory programs may include but are not limited to Schwab Managed Portfolios™, Schwab Managed Account Services™, the Schwab Advisor Network®, Schwab Intelligent Portfolios Solutions™, and other similar advisory services, and fee-based Financial Planning Services. In addition to Schwab's and its affiliates' own Form ADV Disclosures, your consent also covers Form ADV Disclosures from third-party investment advisors whose services you select through Schwab. Paperless Form ADV Disclosures may accompany your account statements or be sent via electronic mail independently. If the third party does not make its Form ADV Disclosures available electronically, you will instead receive the standard printed materials by postal mail.

Shareholder Materials ("Electronic Delivery")

Shareholder materials include regulatory information such as prospectuses; prospectus supplements; quarterly, semi-annual, and annual reports; and proxy materials. You will receive an email notification with a web link to shareholder materials if you have a position in an equity or mutual fund as of the record date for a particular shareholder distribution and the materials are made available electronically by the issuer or third party. If the issuer or third party does not make shareholder materials available electronically, you will instead receive the standard printed materials by postal mail. By providing your consent to receive electronic delivery of shareholder material, you also consent to electronic householding. This means that if you and someone else enroll in this paperless service using the same email address, we may send one email announcement to this email address if each account holds securities of the same issuer. This avoids duplicate mailings of shareholder documents. If you no longer want electronic householding of your shareholder materials, you must modify your Paperless Documents enrollment as described above. Your shareholder materials may include electronic proxies. You may elect to vote your proxy online at proxyvote.com by entering the control number included in your email announcement and the last four digits of your Social Security number or Taxpayer Identification Number as your PIN.

Addendum for Schwab Bank Paperless Statements ("eStatements")

Schwab Bank Paperless Documents categories include statements and account documents and tax forms. The above information regarding the purpose and effect of your consent, including how to request paper delivery, how to ask questions, how to withdraw consent for paperless delivery, electronic notification of ready statements, keeping a current email address, hardware and software requirements, and security and privacy information, are all applicable to Schwab Bank accounts. Paperless Documents include account statements and tax forms. In addition, account statements for your Investor Checking account(s), Investor Savings account(s), and Pledged Asset Line® account(s) provide important information about your accounts, including the account balance; the transactions conducted; other activity in your accounts; and other information, terms, and conditions governing your accounts.

Investment and Insurance Products: Not a Deposit • Not FDIC Insured • Not Insured by any Federal Government Agency • No Bank Guarantee • May Lose Value

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