



Trading Authorization and Indemnification

A Fidelity mutual fund shareholder may use this form to authorize a third party (an "Authorized Agent") to have trading authority on a Fidelity Advisor mutual fund account ("Account"). This form may only be used for Accounts serviced directly by Fidelity Investments Institutional Operations Company LLC, (FIIOC), where the shareholder is registered on the books of the respective Fidelity mutual fund(s).

This form may also be used by corporations and public entity shareholders to appoint certain employees with access to such accounts for purposes of reviewing and/or transacting, subject to providing appropriate documentation, such as a corporate resolution or certificate of incumbency, indicating the signer of this form's authority to act on behalf of such corporation or public entity.

Type on screen or fill in using CAPITAL letters and black ink.

Helpful to Know

- In addition to the duties and obligations set forth herein, state law may govern the delegation of trading authority on certain account registration types, such as fiduciary registrations, including guardianships, estates and trusts, and FIIOC will not make any determination as to the applicability of such local laws or regulations on your Account.
- This form gives an Authorized Agent certain powers to manage your Account. The powers delegated to your Authorized Agent by operation of this form for your Account will continue to exist until you or someone authorized on your behalf makes a properly authorized change to your Account in writing. If you do not understand this form or any provision of it, you should obtain the assistance of an attorney or other qualified advisor.
- A notarized signature is required in Section 6 of this form to add an Authorized Agent on your Account for Limited or All Trading Authorization as more fully described below.

1. Registered Owner

Fidelity Investments Institutional Operations Company LLC (FIIOC) and its affiliate(s) are hereby authorized to accept the instructions of the Authorized Agent, designated herein, subject to the restrictions described in Section 2 below, on behalf of the registered account owner(s) for all of the Fidelity mutual fund shares held in the Account listed below.

Check type of account registration:

The Authorized Agent(s) you appoint in Section 2 will be authorized to trade on your account, in addition to the Financial Advisor. If you have multiple account registrations and you want to appoint an Authorized Agent for each Account, you must complete a separate form for each account.

- Individual/Joint** (For joint accounts, all account owners must sign this form. The Authorized Agent acts for all owners jointly and individually.)
- Corporate**
- Investment Only Retirement** (Investment Only, Non-prototype, i.e., Fidelity Management Trust Company is not the trustee/custodian; this form must be completed and signed by the trustee/custodian.)
- Fidelity Advisor IRAs** (Traditional, Roth, Rollover, SIMPLE, SEP, or SARSEP or BDA)
- Fiduciary** (Trust, UGMA/UTMA, Estate, Conservatorship or Guardianship)

Note: This form cannot be used for Fidelity Advisor 529 Plans or Advisor 403(b) Plans.

Account Number

Registered Owner First Name	M.I.	Registered Owner Last Name, or Name of Organization or Trust	Owner SSN or TIN
Mobile Phone Number <i>Used as your primary phone</i>	Email Address*		

Joint Owner First Name	M.I.	Joint Owner Last Name
Mobile Phone Number <i>Used as your primary phone</i>	Email Address*	

Financial Advisor First Name	M.I.	Financial Advisor Last Name
Financial Advisor Phone	Financial Advisor Fax	

* See Electronic Delivery section for more details.

You must provide an email address and mobile phone number to be used to verify and/or authorize transactions.



2. Choose a Level of Trading Authority for Your Authorized Agent(s)

Specify the Authorized Agent(s) for the account listed in Section 1 and indicate one of the following levels of trading authority:

Inquiry Only (I) – This level of authority permits the Authorized Agent to only inquire (such as view share balances, account history, and clerical account information) in the Account specified above. No financial transactions are permitted by the Authorized Agent.

Limited Trading Authorization (L) – This level of authority permits the Authorized Agent to inquire and trade in the Account specified above, including exchanges within the Account and the redemption of Fidelity mutual fund shares to the registered account holder at the address of record or the bank account pre-established on the Account, or for the payment of financial advisory service fees to the Authorized Agent (regardless of the tax consequences to the registered account owner(s) of such distribution).

If no authority is indicated, the individual listed will default to Inquiry Only Authorization.

All (A) – In addition to the authorizations described in Limited Trading Authorization above, this authorization authorizes the Authorized Agent to request all transactions (such as purchases, redemptions, exchanges, or transfer of shares) on the account, including, but not limited to: distributions or redemptions payable to the registered account owner, the Authorized Agent, or any other third party. Transaction requests may be received orally, in writing, or electronically, all in accordance with procedures established by FIIOC, from time to time.

“All” trading authorization is only available on certain registration types, including corporate, partnerships, and nominee registrations. “All” trading authorization is **not** available on individual/joint, TOD, and any type of Fidelity Advisor IRA (as defined above).

A shareholder must provide a notarized signature to add an Authorized Agent on an Account for “Limited” and “All” authorization levels. FIIOC does not require a notarized signature to add “Inquiry Only” authorization.

Appointment of Authorized Agent by Registered Account Owner(s):

I authorize the following individual(s) as my Authorized Agent(s) to execute transactions as more fully described in this Section 2. I am adding the Authorized Agent(s) below or changing the Authorized Agent(s) previously authorized with the agent(s) listed below:

- Adding the person listed below as Authorized Agent in addition to those previously authorized.
- Changing all Authorized Agent(s) previously authorized and replacing him/her/them with the agent listed below.

Choose only one authority level per Authorized Individual.

Authorized Individual 1 First Name	M.I.	Authorized Individual 1 Last Name	Level of Authority <i>required</i> <input type="checkbox"/> I <input type="checkbox"/> L <input type="checkbox"/> A
SSN	Date of Birth		
Authorized Individual 2 First Name	M.I.	Authorized Individual 2 Last Name	Level of Authority <i>required</i> <input type="checkbox"/> I <input type="checkbox"/> L <input type="checkbox"/> A
SSN	Date of Birth		
Authorized Individual 3 First Name	M.I.	Authorized Individual 3 Last Name	Level of Authority <i>required</i> <input type="checkbox"/> I <input type="checkbox"/> L <input type="checkbox"/> A
SSN	Date of Birth		
Authorized Individual 4 First Name	M.I.	Authorized Individual 4 Last Name	Level of Authority <i>required</i> <input type="checkbox"/> I <input type="checkbox"/> L <input type="checkbox"/> A
SSN	Date of Birth		
Authorized Individual 5 First Name	M.I.	Authorized Individual 5 Last Name	Level of Authority <i>required</i> <input type="checkbox"/> I <input type="checkbox"/> L <input type="checkbox"/> A
SSN	Date of Birth		

continued on next page



2. Choose a Level of Trading Authority for Your Authorized Agent(s) *continued*

Financial Advisory Fee Payment Authorization by Registered Account Owner(s):

By signing this Trading Authorization and Indemnification form, I authorize FIIOC to act on instructions from my Authorized Agent with Limited or All Trading Authority to redeem shares of Fidelity mutual fund(s) from the Account referenced above sufficient to pay financial advisory service fees ("Fee(s)") to my Authorized Agent. I certify that I have entered into a written agreement with the Authorized Agent for financial advisory services rendered in conjunction with the account listed in Section 1. Additionally, FIIOC may rely on any instructions regarding the Fee amount and calculation of such Fee submitted by the Authorized Agent to deduct such Fee from my Account. I understand that it is my responsibility to verify the Fee amount and the accuracy of the Fee calculation prior to its submission to FIIOC and that FIIOC will not make any determination as to whether the Fee, or its calculation, is accurate or appropriate under any circumstances. Additionally, FIIOC will not undertake to monitor my Authorized Agent's compliance with my authorization for these payments. I understand that I am responsible for the tax consequences of any transaction made by my Authorized Agent and I should carefully review my Account documentation (such as trade confirmations and statements) and monitor all activity in my Account.

3. Authorized Agent Representations and Signatures *Form cannot be processed without all signatures and dates.*

- I, the Authorized Agent, understand and agree that FIIOC may, but is not obligated to, verify and confirm any information provided by the registered account owner(s) or me on this Trading Authorization and Indemnification form.
- I will act in accordance with all policies, procedures, and information provided by FIIOC from time to time, and described in the applicable Fidelity mutual fund prospectuses, including but not limited to those policies governing fund share exchanges.
- If I charge a financial advisory service fee ("Fee" or "Fees") with respect to the Account listed on this form, the registered account owner(s) has agreed to the rate, amount, and payment of such Fee in a separate writing between me and the registered account owner(s). I agree to provide written instructions in a form acceptable to FIIOC to redeem Fidelity mutual fund shares to satisfy such Fees as authorized by the registered account owner(s).
- I agree to indemnify and hold harmless FIIOC and the Fidelity mutual funds, and their respective affiliates, for any claim, demand, loss, expense, or cause of action resulting from my instructions.
- I hereby acknowledge and agree that, to the extent I have been appointed as Authorized Agent for an employee benefit plan, that any compensation I receive with respect to such plan will be disclosed to the sponsoring employer or responsible plan fiduciary, as required under applicable law, including without limitation the requirements of Department of Labor regulation Section 2550-408b-2(c)(1). If I have been appointed as Authorized Agent and am acting in a fiduciary capacity with respect to a retirement Account/plan, as defined under the Employee Retirement Income Security Act of 1974, as amended (ERISA) or the Internal Revenue Code (Code), I acknowledge and agree that the receipt of any compensation with respect to such retirement Account/plan does not violate ERISA, the Code, or any regulations thereunder.

Authorized Agent 1 Signature	Date MM - DD - YYYY
SIGN ▶	▶
Authorized Agent 2 Signature	Date MM - DD - YYYY
SIGN ▶	▶
Authorized Agent 3 Signature	Date MM - DD - YYYY
SIGN ▶	▶
Authorized Agent 4 Signature	Date MM - DD - YYYY
SIGN ▶	▶
Authorized Agent 5 Signature	Date MM - DD - YYYY
SIGN ▶	▶



4. Duration of Authorization and Applicable Law

This trading authorization and indemnification is a continuing one and shall remain in full force and effect until revoked by the registered owner(s) by a written notice received and accepted by FIIOC, but such revocation shall not result in any liability in any way resulting from transactions initiated or terminated prior to FIIOC's receipt of such revocation and a reasonable time thereafter. This trading authorization and indemnification shall not be affected by subsequent disability or incapacity of the registered owner(s) until FIIOC is notified in writing by a properly authorized representative of the registered account owner(s) of such termination. In case of death of the registered account owner(s), FIIOC shall not be responsible for any action taken on the basis of this Trading Authorization and Indemnification form and will terminate the Authorized Agent's authority when it has received notice thereof. Furthermore, this trading authorization and indemnification is in addition to and in no way restricts any rights of the parties which may exist at law or under any other agreement(s) between the registered owner and FIIOC.

This authorization and indemnity shall be construed, administered, and enforced according to the laws of the Commonwealth of Massachusetts, and shall inure to the benefit of Fidelity Investments Institutional Operations Company LLC, and of any successor firm or firms irrespective of any change(s) at any time in the personnel thereof for any cause whatsoever, and to the benefit of the affiliates and the assigns of Fidelity Investments Institutional Operations Company LLC, or any successor firm.

5. Electronic Delivery

IMPORTANT: By signing this form, you are consenting to receive all account-related communications electronically. You agree that Fidelity may use your email and/or mobile number to message, call, or text you for this purpose. Message and data rates apply; frequency may vary. To manage your delivery preferences, log into accounts.fidelity.com and select the eDelivery settings in your Overview section.

To confirm your consent, please respond to the electronic message which Fidelity will email to you.

Note:

- Your delivery preferences are applied across all eligible Fidelity accounts owned by you based upon your most recent election. If you have already consented to electronic delivery, your election will not change.
- The email address provided should not be your Authorized agent/ Representative's email address.
- This email address will replace any existing email address already on our system.

6. Registered Account Owner Signatures and Dates *Form cannot be processed without all signatures and dates.*

In the section below, "I," "me," "my," "you," and "shareholder" refer herein to the owner indicated on the account referenced on this form, and for any account with more than one owner (such as a joint account or trust account), "I," "me," "my," "you," and "shareholder" shall refer to all owners, collectively and individually.

- I (We) hereby acknowledge that FIIOC shall not be responsible for evaluating the appropriateness or suitability of any investment decisions or actions that the Authorized Agent may direct, and any adverse consequences arising from such an investment decisions, action or inaction, including, without limitation, the tax implications associated therewith.
- I (We) understand that this Trading Authorization gives someone other than the registered owner(s), authorization to access

my (our) account, trade in my (our) account and to perform such functions as described herein. Without assuming any responsibility for reviewing or monitoring any investment decision, fee payment or other activity of the Authorized Agent, FIIOC, in its sole discretion and for whatever reason, may, but is not obligated under any circumstances to, request additional documentation from me (us) or my (our) Authorized Agent prior to executing any transaction requested by the Authorized Agent.

- I (We) hereby acknowledge that I (we) have received, read, understood and agreed to the terms and conditions set forth in this Trading Authorization and Indemnification form.
- I hereby instruct FIIOC to act on my (our) Authorized Agents' instructions when applicable to sell shares in the Account

referenced in Section 1 to pay financial advisory service fees to my (our) Authorized Agent.

- I (We) indemnify and hold harmless FIIOC, its officers and employees, its affiliates and the Fidelity mutual funds from all liabilities, claims, direct and indirect damages, costs, expenses, including attorney fees, that FIIOC may incur by relying and acting upon my (our) authorization herein, or my (our) Authorized Agent's instructions delivered pursuant to this Trading Authorization and Indemnification form. FIIOC may terminate this arrangement at any time for any reason by delivering written notice to me (us). I (We) may terminate this arrangement upon written notice to FIIOC delivered at its offices at the address listed at the bottom of this form.

Print Existing Authorized Individual Name <i>First, M.I., Last</i>	
Existing Authorized Individual Signature*	Date <i>MM - DD - YYYY</i>
SIGN ▶	▶

Print Joint Owner Name <i>First, M.I., Last</i>	
Joint Owner Signature	Date <i>MM - DD - YYYY</i>
SIGN ▶	▶

* For personal accounts, the person signing the form must be the registered account owner. For corporate or public entity accounts, the signer must be an authorized officer with power to appoint another employee or Authorized Agent. The signer must provide a corporate resolution or certificate of incumbency evidencing the signer's authority to make such an appointment.

The trademarks and service marks appearing herein are the property of FMR LLC.

Fidelity Investments Institutional Operations Company LLC
909301.3.0 1.727137.118
1024

continued on next page

6. Registered Account Owner Signatures and Dates *Form cannot be processed without all signatures and dates. continued*

Statement of Notary Public In this section, "You" and "you" refer to the Notary Public.

You certify that the individual signing above appeared before you on the date indicated below, that they are known to you to be the individuals they claim to be, and that they represented to you that they made the certifications above their signature of their own free will.

Important Note: CA Notaries are permitted to submit a separate page notary document. If used, it must identify the document being notarized.

Notice to CA Residents: A Notary Public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

NOTARIZATION 1

State	County	Identification
Print Notary Name		Commission Expires MM - DD - YYYY
Notary Signature		Date MM - DD - YYYY

SIGN ▶

NOTARY STAMP OR SEAL

NOTARIZATION 2

State	County	Identification
Print Notary Name		Commission Expires MM - DD - YYYY
Notary Signature		Date MM - DD - YYYY

SIGN ▶

NOTARY STAMP OR SEAL

A notarized signature is required to authorize "All" and "Limited" trading authorization levels but not "Inquiry Only."

Did you sign the form, and attach any necessary documents? Send the form and any necessary documents to Fidelity.

UPLOAD THROUGH WEB

Log into *Accounts.Fidelity.com*

Instructions for Shareholders:

- Under "Manage Accounts, Other Services," go to the "Upload Documents" link.
- Follow instructions on the web portal and click "UPLOAD DOCUMENTS."

Instructions for Financial Representatives:

- Under "Quick Links" on the landing page, go to the "Upload Documents" link.
- Follow instructions on the web portal and click "UPLOAD DOCUMENTS."

FAX

888-321-7349

MAIL

Fidelity Investments Institutional Operations Company LLC (FIIOC)

Regular: P.O. Box 770002, Cincinnati, OH 45277-0082
Overnight: 100 Crosby Parkway, KC1G, Covington, KY 41015

IMPORTANT: If an original signature guarantee or notary is required, this form must be mailed.

Questions? For help completing this form, call 800-522-7297 (Financial Representatives) or 877-208-0098 (Shareholders), or visit accounts.fidelity.com.

The trademarks and service marks appearing herein are the property of FMR LLC.

Fidelity Investments Institutional Operations Company LLC
 909301.3.0 1.727137.118
 1024