ETF playbook

Drawing up a game plan for ETF success
# Table of contents

**Introduction**  
The ETF opportunity  
Your ETF coaching staff  
More opportunity, more competition  
The right product  
Repackaging a failed fund in an ETF wrapper?  
The right distribution  
What do investors like about ETFs?  
The right execution strategy  
Final thoughts  

**Chapter 1: ETF tax efficiency – Fact or fiction**  
Operational infrastructure  
Portfolio management and investment mandate  
Overall market conditions  
Investor behavior  
Final thoughts  
ETFs versus mutual funds: The tax match-up  

**Chapter 2: Six key tech and ops factors critical to ETF success**  
The roster of players  
Selecting the right service providers  
ETF industry ecosystem  

**Chapter 3: Your accounting and reporting game plan**  
Former SEC regulators weigh in  
Soaring ETF growth  
Accounting and financial reporting  
ETFs versus mutual funds  
Key accounting and financial reporting standards  
Types of ETFs  
Internal control over financial reporting  
Conclusion  

ETF playbook glossary
Are you thinking about taking the plunge and entering the exchange traded funds (ETF) game? Have you already begun drawing up some plays and taken initial steps towards forming a fund, or are you on the verge of launching one?

Or maybe you’ve launched your ETF, but haven’t scored the touchdown you were expecting?

You’ve seen the great potential for success. But you’re also aware of some well-publicized, titanic failures that have taken place.

While the ETF space is growing by leaps and bounds, the playing field is replete with funds that were stopped in their tracks before they even made a first down. In fact, of the 204 ETFs that launched in 2014, 92 have gained less than $10 million each in assets—that’s a 45 percent flop rate.¹ And it’s getting harder for new launches to break through and put some points on the board.

So what can you do to bolster your chances of being one of the few to score a game-winning touchdown, and more importantly, keep the winning streak going?

To help you reach these goals, we’re creating a series of articles—an ETF playbook, if you will—designed to enhance your game plan for success, and help you gain a thorough understanding of the ETF landscape, complete with both pitfalls and potential.

In this first article, we’re going to explore the significant and growing “ETF opportunity” and then address some essential elements needed to launch and operate a successful ETF. These include the necessity of having the right:

— Product to market
— Distribution game plan
— Execution strategy

In upcoming playbook chapters, we will take a deeper dive into:

— Taxation of ETFs as compared to mutual funds
— Operations and technology
— Formation and launch
— Audit and regulatory requirements for ETFs as compared to mutual funds
— Sales and distribution

The playbook will feature case studies of ETFs that made it to the playoffs and those that were knocked out of contention early in the season, as well as practical, actionable lessons that can be gleaned from each.

¹ETF Strategist: The 10 biggest fund flops of the year, CNBC.com, 12/30/14
The ETF opportunity
The ETF space is expected to represent a huge growth opportunity in the coming years. That’s why so many potential sponsors, entities, and investors are interested in them.

After starting out slowly in the late 1990s, assets under management (AUM) in ETFs and other exchange traded products (ETPs) grew to more than $1 trillion in 2011 and jumped to more than $2 trillion in 2015.

And that’s just the tip of the iceberg. Global ETF/ETP AUM is projected to hit $15.5 trillion by 2024 and will likely be a key contender for marketplace supremacy alongside the reigning champ, mutual funds.

“ETFs are creating dynamic and innovative investment strategies,” noted Sean McKee, KPMG’s National Practice Leader for Public Investment Management. “And ‘actively managed’ ETFs represent the next generation of innovation.”

With actively managed ETFs, rather than simply assembling a portfolio of indexes on which to base an ETF, managers of these types of ETFs may continually change the underlying index or portfolio allocations, like managers of mutual funds. What’s more, investors have a wide variety of choices; they can purchase ETFs holding currencies, commodities, frontier markets, sectors, countries, leveraged vehicles, bank notes, and more.

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2 ETPs, or exchange traded products, include ETFs, exchange traded vehicles (ETVs), and exchange traded notes (ETNs).

3 ETFs’ Future: Huge Growth, ETF.com, 2/4/2014
Your ETF coaching staff

In this article, and throughout the upcoming articles in the ETF playbook, you’ll be seeing quotes and guidance from KPMG’s ETF specialists. Here’s a brief rundown of what they bring to the table:

**Deanna Flores**
Deanna is KPMG’s National Tax Leader for Public Investment Management and a principal in our National Tax Financial Institutions and Products group. She has more than 24 years of experience providing tax advice to investment management industry participants, including on matters related to investment alternatives and product structures, cross-border financial products transactions, and investor opportunities.

**Jay Freedman**
Jay is a principal in the Financial Services Tax practice, focusing on alternative investment and capital markets clients. For 20+ years, he’s advised clients on a broad array of tax issues related to the alternative investment and banking industries, including financial products and derivatives, cross-border structuring and transactions, partnership tax, and corporate tax.

**Sean McKee**
Sean is KPMG’s National Practice Leader for Public Investment Management. He has 25 years of experience in the investment management industry, providing professional services to mutual funds, exchange traded funds, hedge funds, commodity pools, investment managers, private equity funds, fund administrators, transfer agents, family offices, public pension funds and institutional investors.

**Jim Penman**
Jim is an Advisory director with 25+ years’ experience with financial services product development, design, and architecture. His main focus is on innovation, systems implementation, technology enablement and operational optimization in connection with ETFs, mutual funds, trust companies, banks, broker/dealers, custody and recordkeeping providers, and registered investment advisors. Jim has previously worked with ETF technology providers and DTCC on the launch of new ETFs.

**Kim Zavislak**
Kim is an Audit partner with extensive experience in providing financial reporting guidance and audit services to the complete spectrum of financial services clients, including investment advisors, banks, broker-dealers, ETFs, mutual funds, and private equity funds. She’s also assisted clients with valuation issues, master-feeder fund structures, multi-class structures, derivatives, reorganizations, and common trust conversions.
**More opportunity, more competition**

But just because there will be more investable assets on the playing field doesn’t mean there will be room for everyone to play. The so-called “Big Three”—BlackRock, Vanguard, and State Street Global Advisors—currently control around two-thirds of the ETF marketplace. What’s more, in 2015, these three fund sponsors took in 55 percent of the new cash allocated to ETFs.4

A number of other heavy hitters have also entered, or are taking steps to enter, the ETF market.5 So, the battle for the remaining portion of investable assets is likely to be difficult, albeit potentially lucrative.

“To be successful in this competitive market, it’s going to come down to outthinking your competition, having a game plan in place, and staying two or three steps ahead of the rest of the pack;” observed Jim Penman, KPMG Advisory director. “You’ll have to be ready to seize an opportunity when it appears and be nimble enough to adapt quickly.”

Let’s take a look at some key factors that enhance the likelihood of ETF success.

**The right product**

Regardless of the size of the fund or the sponsor, “you need to offer a product that provides a better or new solution for investors;” noted Deanna Flores, KPMG National Tax Leader, Public Investment Management. “This fundamental principle was behind some of the recent ETF success stories.” (See sidebar on right.)

To increase the likelihood of creating an ETF product that connects with investors, you need to identify where there are existing or emerging market gaps that may call for an ETF to fill those needs.

“One great way to determine if there’s a market for your ETF is to hold focus groups with potential investors to see if they understand your product and its investment strategy;” suggested Flores. “If you’re considering marketing to retail investors, for example, you should be able to explain the product in a short elevator speech. If you can’t, you may hit a significant roadblock entering that market.”

Another key point is that the ETF should have a broad appeal, even if it’s in a niche market. “Creating an ETF that’s only appropriate for one or a few of your larger clients can lead to problems down the road;” cautioned Flores.

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4 Dominance of ‘Big Three’ forces wave of innovation, FT.com, 1/30/16

5 ETFs 2.0: The Next Wave of Growth and Opportunity in the U.S. ETF Market, BNY Mellon Asset Servicing, 6/2011

6 Track Record Our Trump Card, ETF.com, 3/30/15

7 More opportunity, more competition

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4 Dominance of ‘Big Three’ forces wave of innovation, FT.com, 1/30/16

5 ETF Predictions for Rest Of 2015, ETF.com, 8/7/15

6 ETFs 2.0: The Next Wave of Growth and Opportunity in the U.S. ETF Market, BNY Mellon Asset Servicing, 6/2011

7 Track Record Our Trump Card, ETF.com, 3/30/15
The right distribution
Another key to a successful ETF is making sure your distribution game plan is in place well before launch.

“I can’t emphasize enough how important your distribution strategy is,” stated Penman. “No matter how good your product is and how compelling your investment theme, unless you can find a way to get it distributed, you’re likely to find yourself and your ETF falling short of the goal line.”

Here’s what you need to know. The North American marketplace comprises four key sales segments:

- Direct-to-consumer
- Adviser sold
- Registered Investment Advisors (RIAs)
- Institutional

<table>
<thead>
<tr>
<th>What do investors like about ETFs?</th>
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<tr>
<td><strong>Fees</strong>: ETFs typically have lower fees than comparable mutual funds. That’s because the cost of shareholder servicing and recordkeeping is largely eliminated for ETF sponsors.</td>
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<tr>
<td><strong>Investor objectives</strong>: ETFs are well suited to meet investor objectives related to portfolio diversification, liquidity needs, or hedging.</td>
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<td><strong>Intraday trading</strong>: ETFs are continuously valued throughout each trading day, and the price of an ETF share is market-derived.</td>
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<td><strong>Liquidity</strong>: ETFs can be bought and sold at any time during the trading day, just like a stock. This liquidity factor is particularly important to institutional investors (e.g., pensions), as they can use it to “equitize cash,” or park money for short periods of time.</td>
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<td><strong>Taxes</strong>: Both ETFs and mutual funds distribute realized capital gains every year to minimize or eliminate entity level taxes. “But in practice, ETFs often distribute fewer capital gains than comparable mutual funds due to ETFs’ ongoing redemptions of investors in-kind,” observed Flores. “That’s why retail investors may prefer ETFs.” (The tax implications of ETFs versus mutual funds will be addressed in more detail in an upcoming ETF playbook article on taxes.)</td>
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<td><strong>Access</strong>: ETFs offer cost-effective access to an array of investment options for any investor with a brokerage account, as well as the ability to short-sell for investors looking for the inverse exposure of an ETF.</td>
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<td><strong>Transparency</strong>: ETFs generally must disclose their holdings on an intraday basis, while mutual funds generally have to do it quarterly. While this places an administrative burden on the ETF sponsors, it’s a benefit for investors.</td>
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Repackaging a failed fund in an ETF wrapper? Don’t bother

You’ll likely be setting yourself up for failure if you’re considering using an ETF as a way to repackage and sell another fund that wasn’t successful previously.

Observed Jay Freedman, KPMG tax principal, “We’ve seen managers who ran hedge funds that never really got off the ground, and then decided to repackage the product in an ETF wrapper so it would get more attention and market share.”

“Invariably, this turned out to be a terrible idea,” he continued. “If you didn’t have the track record or the proper sales and distribution setup for the hedge fund, your chances of getting any more traction by repackaging it as an ETF are slim to none.”
In addition, there are a number of sub-segments that can serve as distribution channels, including robo-advisors, platform providers, wirehouses, banks, trust companies, independent broker-dealers, and direct-to-consumer providers.

When it comes to developing a distribution strategy, the three primary ways to enter the ETF market are launching your ETF:

— Independently
— As a sub-adviser with an existing ETF sponsor
— As a sub-adviser to an ETF platform provider

Here are some key points to keep in mind when developing your distribution strategy. “Getting attention – and shelf space – at broker-dealers often depends on a product’s size, liquidity and track record,” observed Penman. “Smaller ETF sponsors will likely have distribution challenges until they gain some credibility and market share through the performance of their funds.”

On the other hand, fund providers that already have strong distribution channels in certain segments can often leverage those channels to market their ETFs.

“But just because you distribute a mutual fund through one channel doesn’t necessarily mean that the same channel has the appropriate technology platform and expertise to distribute your ETF,” noted Jim Penman, KPMG advisory director.

**The right execution strategy**

It’s essential that you have all phases of your ETF game plan locked down tightly before launch—from investment strategy to operations to sales and distribution. According to Penman, “You generally have about **18 months** after launch to get to the next level, where sales become self-sustaining.”

If you don’t hit that mark within that time frame, your chances of being successful dwindle markedly. “Generally speaking, you may as well shut it down,” he observed. “Otherwise, you may be one of those stragglers who’ll be out there for a long time stuck at the same level. And the cost and effort of keeping the ETF going is probably not worth the time and expense.”

How do you gauge whether you’re on the right track? Penman noted that “A good indicator of ETF success is reaching at least $100 million in assets within the first year, and then continuing to build momentum from there. But only a small percentage of new fund launches get to that level.”

Penman also noted that the bigger players in the ETF space have strong product portfolio management and a good feel for knowing when to go for it or punt. But smaller ETF sponsors who are determined to keep their fund alive may have to partner with someone, or hope that they get enough shelf space from some platform providers to drive sales. “But those tend to be ‘Hail Mary’ passes that don’t typically work out,” he added.

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8A robo-advisor is an online wealth management service that provides automated, algorithm-based portfolio management advice without the use human financial planners. It typically offers only portfolio management services, and not tax, retirement or estate planning.

9Wirehouses range from small regional brokerage firms to giant full service firms with offices around the world that share financial information, research and prices. For more information, see Wirehouses still attracting adviser talent, Investment News, 4/8/2015.
The ETF playbook

Our ETF playbook is designed to provide practical insights to help firms of all sizes compete and enhance their game plans for success in the growing and highly competitive ETF market.

Stay tuned for articles that focus on:

- Taxation of ETFs as compared to mutual funds
- Formation and launch
- Audit and regulatory requirements for ETFs as compared to mutual funds
- Operations and technology
- Sales and distribution

So, how do you make sure that you’re prepared to execute quickly and effectively against your game plan? Our ETF coaching staff’s blueprint to increase your chances of success calls for:

- Understanding the ETF landscape thoroughly, including your competitors’ strengths, weaknesses, and tactics
- Offering a product that connects with investors, and developing a compelling “elevator speech” to explain the product to appropriate audiences
- Realistically assessing the fixed costs and run rate it will take to launch and maintain the ETF for at least 18 months (or until it gains traction). In addition, consider the amount and timing of seed capital to show activity in the fund, versus seeding the entire amount at launch
- Making sure that you have the right talent, experience, and track record to execute on the investment strategy you’ve selected
- Locking in your operations, technology, and sales platforms, and your custodian and distribution contracts
- Creating a competitive and predictable fee structure
- Building in options that allow you to be more nimble and agile than your competitors

“If an ETF sponsor executes its game plan successfully, it can create a niche and potentially lock out the competition in that area,” stated Flores. “A key component of successful execution is closely tracking the ETF’s index, while also developing and evolving a strategy to mitigate investor tax exposure.”

**Final thoughts**

Due to their overall efficiency, which growth and competition will continue to drive, ETFs are expected to command increasing market share in the investment community among both institutional players as well as the consumer market. This article sets out some of the reasons why this is so, and also offers suggestions on how fund managers and ETF sponsors can bolster their likelihood of success.

The ETF landscape is not without some potential storm clouds on the horizon, however. The so-called “flash crash” that occurred in August 2015 has raised the eyebrows of regulators at the U.S. Securities and Exchange Commission. The crash saw the market price of many ETFs fall below their underlying value, in some cases substantially. This resulted in significant losses for investors who sold their ETF shares at the market price.

We will be covering these and many more issues in future articles of KPMG’s ETF playbook.

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^{10} Should You Fear the ETF?, MarketWatch, 12/27/15
Chapter 1
ETF tax efficiency

Fact or fiction?
Exchange traded funds (ETFs) are widely regarded as being more tax efficient than comparable mutual funds. This is one of the core selling points that ETF sponsors raise when discussing the “ETF advantage.”

And, it often is true.

But why is it true?

According to Deanna Flores, KPMG LLP (KPMG) Tax principal. “It's essential to understand why ETFs are tax efficient before you include them in any investment strategy. Otherwise, you may end up holding an ETF whose tax advantages have been as overhyped as the reputation of most first-round NFL quarterbacks drafted.”

“ETFs do hold great attraction and offer significant benefits,” she added. “But, from a strictly tax point of view, the tax efficiency of an ETF or a mutual fund is driven by four key factors:

— Operational infrastructure
— Portfolio management and investment mandate
— Overall market conditions
— Investor behavior

Whether investors buy ETFs or mutual funds, they should keep their “eyes on the ball” and focus on the following:

— What is their net return? An ETF or mutual fund that permits investors to realize higher net returns over the long run may be the right choice, irrespective of tax efficiency in the short run.

— Is the fund well-managed? Smart choices by a fund sponsor may improve the tax efficiency of any fund, regardless of whether it is structured as an ETF or mutual fund.

Let’s take a closer look at the drivers of tax efficiency.

**Operational infrastructure**

Both ETFs and mutual funds must:

— Recognize gains, losses and income at the fund level, but they're not taxed at the fund level on these items to the extent they are distributed to shareholders

— Distribute net-realized gains and income to investors, which are then generally taxable to the investors as ordinary dividends, long-term capital gain dividends, exempt interest dividends, or returns of capital.

In addition, both ETFs and mutual funds may **redeem shareholders on an in-kind basis.** Generally, this means that when an investor wants to redeem ETF or mutual fund shares, the distributor could exchange the shares to be redeemed for a basket of securities held by the ETF or mutual fund.

In the case of ETFs, only certain institutional investors (called “authorized participants”) may redeem shares directly from an ETF. Conversely, the institutional investors are also allowed to contribute securities to an ETF in exchange for newly issued ETF shares. Retail ETF investors, on the other hand, must purchase or sell ETF shares through a broker or another intermediary.

In the case of a mutual fund, there ordinarily are minimum size requirements for redemptions in kind (say 50,000 or more shares). What's more, retail investors typically want to be redeemed in cash, not securities. So, when mutual funds do use in-kind redemptions, it tends to be only for large redemptions by institutional investors.

1. Why Are ETFs So Tax-Efficient?, ETF.com
2. Most ETFs are taxed as a regulated investment company (RIC). For the purposes of this article, we are comparing this type of ETF—a RIC ETF—to a mutual fund. However, it should be noted that an ETF may be structured for tax purposes as a RIC, C corporation, partnership, trust, or some combination of the foregoing. We are also assuming that the mutual fund or ETF shares are held in a taxable account, and not in a retirement or other tax-deferred investment.
3. However, certain types of securities—for example, derivatives or thinly traded securities—can’t be redeemed by an ETF on an in-kind basis. In this case, the ETF typically will include cash or other securities, as needed, to complete the redemption. Other types of exchange traded products (ETPs), which are not discussed in this article, such as closed-end funds, do not permit in-kind redemptions.
There typically are more opportunities for ETFs with appreciated and liquid portfolio holdings to defer gain recognition.

— Jay Freedman, Tax Principal, KPMG

Redeeming shareholders on an in-kind basis means that ETFs and mutual funds don’t have to liquidate securities to raise cash to pay the redeeming investor. In addition, the ETF or mutual fund can use appreciated securities for the in-kind redemption.

In this case, provided certain requirements are met, neither the ETF nor the mutual fund recognizes gain on the transaction. Thus, there is no need for the funds to make a taxable distribution of gains to its other nonredeeming shareholders. (However, redemptions in kind are not permitted to trigger losses for an ETF or a mutual fund.)

The redeeming investor, on the other hand, must recognize gain or loss just as if the investor had been redeemed in cash. The amount recognized is equal to the difference between the tax cost or “basis” of the investor’s ETF or mutual fund shares and the fair market value of the securities received.

KPMG observation: “While both ETFs and mutual funds are permitted to use in-kind redemptions, ETFs are structured so that in-kind redemptions are the primary redemption mechanism,” observed Jay Freedman, KPMG Tax principal. “As a result, there typically are more opportunities for ETFs with appreciated and liquid portfolio holdings to defer gain recognition by shareholders—and that’s a touchdown any way you look at it.”

Portfolio management and investment mandate
An ETF or mutual fund portfolio manager may make investment choices that are more or less tax efficient. For example, depending on the fund’s investment mandate, market conditions and other factors, the portfolio manager may:

— Decide to “harvest losses” by selling underlying securities or indexes that have underperformed in order to offset or minimize realized gains in the fund

— Only sell securities with a higher cost basis in order to minimize any resulting gains

Tax efficiency, not tax avoidance

The deferral of gains at the ETF or mutual fund level using in-kind redemptions for appreciated securities generally doesn’t alter the total amount of taxable gains to be realized when the shareholder ultimately sells or redeems his or her ETF or mutual fund shares (although it may have the effect of converting short-term capital gains to long-term capital gains).

Bottom line: While the in-kind distribution strategy may foster tax efficiency by deferring tax on gains, it generally doesn’t enable those gains to escape taxation.

Footnote:
4 Where a mutual fund does not redeem shareholders on an in-kind basis, the fund typically would use cash on hand and/or cash received from new investors to meet redemptions, and liquidate portfolio holdings only as necessary. And, in any event, realized gains may be offset by other losses in a fund’s portfolio.
— Minimize investments in securities (such as derivatives or illiquid securities) that can’t be redeemed on an in-kind basis
— Use cash on hand, or cash received from new investors and reinvestments, to meet redemption requests
— Effectively manage selling of underlying securities by taking into consideration holding periods to maximize long-term capital gains.

“In some situations,” noted Flores, “tax efficiency may be less dependent on the nature of the investment vehicle—ETF or mutual fund—than the choices of the portfolio manager. In other situations, the portfolio manager may not have as many opportunities to enhance tax efficiency.”

Another key factor impacting tax efficiency is portfolio turnover. Generally speaking, high portfolio turnover via the sale of the underlying securities creates more opportunity to trigger capital gains that must be distributed and potentially taxed to investors. This is particularly true in a rising market.

“Passive” funds that are designed to be more static and have less portfolio turnover, tend to be more tax efficient than those with actively managed portfolios and higher turnover. While this principle applies to both ETFs and mutual funds, since many (although certainly not all) ETFs employ fairly passive index strategies, they tend to have lower turnover than actively managed mutual funds.

That being said, if a passive mutual fund were required to sell appreciated securities to meet redemptions, it could trigger large taxable gains for nonredeeming shareholders. This could be the case where, for example, a passive mutual fund is shrinking due to net shareholder redemptions.

KPMG observation: “It should be noted that the perception of ETFs being a strictly passive product isn’t set in stone,” Freedman remarked. “Some ETFs with index strategies are mandated to rebalance frequently. And the increasing number of actively managed ETFs may change this equation.”

He also pointed out that “some mutual funds are required to be managed in a tax-efficient way, which may cause the fund sponsor to adopt investment strategies to minimize capital gains distributions.”

Overall market conditions
What’s happening in the markets can also impact the ability of portfolio managers to achieve tax efficiency with ETFs and mutual funds. “For example, when markets are generally flat but there’s significant volatility—that is, the markets may rise and fall hundreds of points on a daily basis, but basically wind up at the same level over the course of a year—there may be more opportunities for portfolio managers to realize losses and offset embedded gains in portfolio securities,” Flores pointed out.

“They can do this even without utilizing the in-kind redemption mechanism,” she continued. “What’s more, this type of market tends to help mutual fund managers achieve tax efficiency.”

However, where markets are steadily rising, funds may hold mostly appreciated portfolio securities that generate taxable gains when sold to meet redemptions, for example. This means that a mutual fund is more likely to trigger gains to meet shareholder redemptions than an ETF, which primarily redeems investors on an in-kind basis.

KPMG observation: “For the most part, markets have been on a consistently upward trajectory for more than 20 years,” Flores observed. “This has made it more difficult for portfolio managers to manage funds on a tax-efficient basis without utilizing the in-kind redemption mechanism, which, as noted, is primarily employed by ETFs, not mutual funds.”

Investor behavior
When investors purchase ETF or mutual fund shares, they acquire a cost basis in those shares, which fundamentally reflects the amount paid by the investor, plus transaction costs. And when the investors ultimately sell or redeem the shares, they generally are taxed on the amount by which the sale or redemption price exceeds their cost basis.

Following an initial purchase, an investor’s cost basis in the ETF or mutual fund shares is reduced to reflect returns of capital, adjusted, as appropriate, to reflect corporate actions (such as a fund merger or stock split), and increased when the investor reinvests distributions from the ETF or mutual fund to acquire additional shares.

However, an investor’s cost basis doesn’t increase as the ETF’s market price or a mutual fund’s NAV increases. It is also important to note that an investor’s cost basis doesn’t decrease as the ETF’s market price or a mutual fund’s NAV goes down. This also holds true for decreases in NAV due to distribution of dividends.

If, for example, an investor buys shares of a mutual fund or ETF whose market-derived price equals or is close to NAV before an ex-dividend date,6 the investor will:
— Pay current tax on the dividend distribution, and

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6 This is the date on which it is announced that a dividend payment will be made.
— Have an unrealized loss in its shares because the tax basis will be higher than the NAV after the NAV is reduced for the dividend payment.

This is commonly referred to as “buying the dividend.” It is generally something for investors to avoid, particularly near the end of the calendar year when ETFs or mutual funds may make their largest distributions.

**KPMG observation:** In addition, the frequency—and aggressiveness—with which investors tend to buy and sell funds can have an impact on the fund manager’s ability to achieve tax efficiency.

“This is particularly the case with mutual funds that do not use redemptions in kind as their primary shareholder redemption mechanism,” noted Flores. “For example, if a mutual fund has net cash inflows and growing assets under management, it may not be necessary for the portfolio manager to sell any underlying securities to meet redemptions by other shareholders.”

“However, where existing investors are exiting the fund and net inflows aren’t being replenished by new investors, or where an ETF is limited in its ability to use in-kind redemptions, such as where the ETF has significant holdings of derivatives, the portfolio manager’s hands may be somewhat tied; they’ll be forced to sell underlying securities without as much opportunity to achieve tax efficiency.⁶

**Final thoughts**
The winning football team generally is the one that focuses on both the offense and defense and makes thoughtful decisions in designing a game plan. This is also a good approach when evaluating the tax efficiency of ETFs. It is true that ETFs are often more tax-efficient than mutual funds due to their routine use of in-kind redemptions. However, if the redemption feature is your primary focus, you may be overlooking some other important factors.

This includes determining whether a particular fund is well managed in terms of expense ratios, error tracking, investment mandates, and index methodologies, and what your net return will be.

To quote the legendary businessman and stock investor, Peter Lynch, “Know what you own and why you own it.”

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⁶Which ETFs Are Making Capital Gains Distributions This Year?, Morningstar, 12/2/15
ETFs versus mutual funds: The tax match-up

Below is a quick summary comparing ETFs and mutual funds, and their respective potential tax advantages and disadvantages:

**Operational infrastructure:**

— Both ETFs and mutual funds are permitted to use in-kind redemptions.

— But ETFs are structured so that in-kind redemptions are the primary redemption mechanism, so there typically are more opportunities for ETFs to defer gain recognition by shareholders.

**Overall advantage – ETFs**

**Portfolio management and investment mandate:**

— Investment choices: ETF or mutual fund portfolio managers may make investment choices that are more or less tax efficient, so tax efficiency may be less dependent on the nature of the investment vehicle—ETF or mutual fund – than the choices of the portfolio manager.

— Portfolio turnover: Generally, high portfolio turnover may create more opportunity to trigger potentially taxable capital gains for investors. ETFs typically—but certainly not always—employ fairly passive index strategies, so they tend to have lower turnover than actively managed mutual funds.

**Slight advantage – ETFs**

**Overall market conditions**

— Generally, rising markets during the past 20 years have made it more difficult for portfolio managers to manage funds on a tax-efficient basis without utilizing the in-kind redemption mechanism.

— In-kind redemptions are primarily employed by ETFs, not mutual funds.

**Advantage – ETFs**

**Investor behavior**

The frequency—and aggressiveness—with which investors buy and sell funds can impact a fund manager’s ability to achieve tax efficiency.

This is particularly the case with mutual funds that do not use in-kind redemptions as their primary shareholder redemption mechanism.

However, where an ETF is limited in its ability to use in-kind redemptions (e.g., the ETF has significant holdings of derivatives) the portfolio manager’s hands may be somewhat tied.

**Slight advantage – ETFs**
Chapter 2
Six key tech and ops factors critical to ETF success
In football, a vastly underrated and unappreciated key to success is the offensive line; it’s the foundation of a great offense. You can have a hall of fame quarterback, an all-pro running back, and speedy receivers, but if you have an offensive line made of Swiss cheese, all that talent will not matter.

“The same holds true for exchange traded funds (ETFs),” stated Jim Penman, Director, Advisory, KPMG LLP (KPMG). “You can have a brilliant product, but if your foundation—your technology and operations (tech and ops)—is substandard, your product isn’t going to break through the line and score touchdowns. If you’re lucky, you will end up just kicking a long field goal.”

This chapter of the playbook takes a look at some of the unsung—but critical—“players” involved in ETF tech and ops roles, the impact they can have, and the questions you need to ask before “drafting” them to be part of your team.

**Background**

ETF and Exchange Traded Note (ETN) products have crossed the $3 trillion threshold in assets globally. Outside of the United States, ETFs account for nearly $1 trillion of global assets and now exist in over 50 countries. With ETFs increasingly becoming components of retirement plans, robo-advisors, advisory accounts, institutional investing, and self-directed investing, it’s likely that ETFs’ growth will continue to accelerate.

The vast majority of ETF assets are considered passively managed ETFs. However, the ETF industry is experiencing tremendous innovation in its offerings; for example, 2016 witnessed the first release of the Exchange Traded Managed Fund (ETMF), a hybrid product that trades like an ETF, but its portfolio is managed like an actively managed mutual fund (See sidebar on page 4).

But as noted above, without an effective tech and ops strategy, your ETF may experience scalability, performance, and/or regulatory issues. “The best ETF investment strategy is worthless if you don’t have all of your technology and operational components in place,” emphasized Penman. “Errors or failures in these areas can have significant financial and reputational repercussions.”

**The roster of players**

From an investor’s point of view, ETFs offer tremendous simplicity for investing in a veritable supermarket basket of investments. They can simply open and fund a brokerage account and immediately start trading ETFs.

But what happens behind the scenes to bring ETF shares to market is far from simple. The process of creating—or eliminating—an ETF requires a complex ecosystem with careful orchestration among several financial industry “players.”

For the vast majority of ETFs, tech and ops functions are outsourced to third parties. “Only the largest five or 10 ETF providers have the scale and technology proficiency to invest in, develop, and manage their own comprehensive platforms,” noted Penman. “In fact, those large ETF providers who maintain their own tech and ops platforms are commonly service providers to other ETF providers.” Because of behind-the-scene complexity of ETF operations, many new ETFs are brought to market through turnkey ETF outsourcers.

> In light of the dynamic growth of ETFs and the prevailing regulatory scrutiny, it is critically important that investment managers ensure their infrastructure and operations are sustainable, effective, and aligned with their product and distribution strategies. Seasoned professionals that provide tailored and thoughtful insights to help you accomplish this are of immense value to the organization.

In choosing a service provider that’s right for you, we recommend carefully considering whether it offers the right blend of experience and professionals with informed judgment, and is also willing to invest the time and resources necessary to furnish you with valuable insights.

— Sean McKee  
National Leader  
Public Investment Management, KPMG LLP

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1 In Q1 2016, of the 1,836 ETFs listed on U.S. stock exchanges, only 136 were considered actively managed.  
http://seekingalpha.com/article/3965416-etf-stats-march-2016-17-births-17-deaths
As a result, the biggest tech and ops decision for most ETF sponsors is how to select their various service providers. Each service provider will have different levels of:

- Operational services and support
- Functional levels of technology automation
- Compliance and reporting capabilities

Page 3 illustrates the various tech and ops service providers in the United States who inhabit the ETF playing field and a brief explanation of their roles. For a more detailed explanation of what they do and why they are important, please refer to the Glossary.

Selecting the right service providers
It is vital that you conduct vigorous due diligence with each service provider and ensure their tech and ops capabilities meet your current and future requirements.

Before you go about selecting your ETF service provider, there are six key business decisions that an ETF sponsor must make:

1. Who is going to administer your ETF? Will you be your own administrator or will you hire a third party? If hiring a third party, consider asking the following questions:
   - What type of ETF indexes and trading strategies can you administer (e.g., passive or active)?
   - What is the range of securities and investment components you can administer?
   - What is your process for ensuring that you support and comply with applicable ETF regulations, including regulatory reporting and record keeping?
   - What is your experience with administering global securities, derivatives, physical assets, real estate, leveraged or shorted positions, and other non-tradable assets?
   - What other similarly sized ETFs have you done administration work for?
   - What is your level of technology automation, and what processes are done manually?
   - How does your platform support custom ETF baskets, negotiated ETF baskets, or partial ETF baskets (if applicable to your ETF)?
   - Can you please explain your fee structure (including reoccurring and non-reoccurring fees)?

2. Select your fund counsel (i.e., legal counsel) to help you navigate regulatory registration and exchange listings. Consider asking the following questions:
   - What is your experience in advising ETFs? What funds have you provided counsel or assisted in writing the prospectus?
   - Which stock exchanges have you assisted with registration of ETFs?
   - Have you facilitated exemptive relief with the U.S. Securities and Exchange Commission (SEC) and/or U.S. Commodity Futures Trading Commission (CFTC)?
   - Which types of exchange traded products (ETPs) and other funds have you offered legal counsel (passive, active, ETMFs)?
   - Do you have any conflicts of interest with any of the ETF’s components?

3. Select the stock exchanges where your ETF will be primarily listed. Factors to consider:
   - What is the listing application process, and what are the agreement terms and fees?
   - What services and software programs are offered to calculate an intraday indicative net asset value (NAV)?
   - What assistance does the exchange provide with regulatory filings?
   - What are the exchange’s public reporting and disclosure requirements?

4. Select authorized participants to help make the market and provide liquidity for your ETF. Consider asking the following questions:
   - Are you able to take a lead role in market making?
   - What coverage do you provide with any of the ETF’s components?
   - What is the level of liquidity that you can provide?
   - Do you have any conflicts of interest with any of the ETF’s components?
ETF industry ecosystem

Below is an illustration setting out the various tech and ops “players” in the ETF ecosystem.
5. Select an index receipt agent, custodian, record keeper, and transfer agency. Consider asking the following questions:

   — Can you explain how your roles and responsibilities will be different from mine (as ETF sponsor)?
   — How do I monitor the day-to-day operational fulfillment activities that you will be providing?
   — What operational key performance indicators will you measure and report?
   — What investments are you making to modernize your technology systems, and what is your plan for continuous IT improvement?
   — What processing steps are conducted manually?
   — How do you ensure that your platform complies with applicable ETF regulations, including regulatory reporting?
   — What range of securities and investment components does your platform support? What does it not support?
   — What are the quality control and testing processes for your system enhancements?
   — What are your disaster recovery and business continuity capabilities, and how often are they fully tested?
   — Can you explain how your platform will support the scale and volume of expected trades we will be making?
   — What other similarly situated ETF clients are you currently serving?

6. Decide whether to act as your own ETF distributor or hire a distributor service. Or are you planning on going without a distributor entirely and solely relying on marketing efforts? If contracting a distributor service, consider asking the following questions:

   — What kind of experience do you have in distributing and promoting our style of ETF?
   — Will you have any conflicts of interest in promoting our ETF versus your other clients? If so, can you explain what they are and how you will resolve it?
   — What is the range and abilities of your sales force?
   — On what basis are you compensated?
   — How do you manage and track campaigns and other marketing efforts?
   — Can you explain your fee structure (including reoccurring and non-reoccurring fees)?

Potential and promise: Passive ETFs, active ETFs, ETMFs, and ETNs

There are four types of ETFs currently being sponsored and sold:

1. Passive ETFs: They make up the bulk of ETFs being sold today. The ETF is composed of securities that match the contents of a published index (e.g., the S&P 500).

2. Actively managed ETFs: Recently gaining traction are actively managed ETFs. In this case, the ETF index is customized, typically by the ETF sponsor. The ETF sponsor may change the ETF’s index on a daily basis; thus, it is actively managed.

However, active ETF managers are required to publish their index and portfolio contents every day; this has discouraged many active managers from sponsoring an ETF.

3. ETMFs: This is the newest evolution of an actively managed ETF. With an ETMF, the investment manager has the discretion to withhold disclosure of index contents from the public; thus, they are commonly referred to as “non-transparent ETFs.” ETMFs provide active managers with the ability to make investments privately without the marketplace being aware of what security positions are being taken.

4. ETNs: ETNs trade and operate like ETFs, but they actually may be structured as debt instruments offered by, and subject to, the solvency of the issuer. Investors do not have ownership rights to underlying ETN assets, but are eligible to receive investment income generated by those assets.

Uncertain future for ETMFs: In part because the regulators and exchanges have not provided clear guidance on ETMFs, only a limited number of brokers have been willing to devote resources to develop the custom trading interfaces needed to support this type of ETF. “So, while they hold huge potential, it is unlikely that ETMFs will take full flight until the financial industry comes to a consensus on how they will be traded,” observed Penman.
Conclusion

The ETF market will continue to grow rapidly, perhaps doubling in size within the next eight years and rivaling mutual funds. Additionally, the ETF market is likely to experience tremendous innovation for years to come, with new asset classes, new investment styles, and new international investment opportunities.

But whether you are considering entering the ETF market for the first time or expanding your existing ETF offerings, it is imperative that you have an effective tech and ops strategy. Your platforms and your service providers’ platforms must be in place and ready to service whatever types of ETFs you are planning on offering if you hope to be successful in the long term.

The ETF playbook series

Our ETF playbook series is designed to provide practical insights to help firms of all sizes compete and enhance their game plans for success in the growing and highly competitive ETF market.

In addition to the current tech and ops article, the series includes the following chapters:

— ETF playbook: Drawing up a game plan for success
— ETF tax efficiency: Fact or fiction

Stay tuned for the final section that focuses on audit and regulatory requirements.
Chapter 3
Your accounting
and reporting
game plan

Accounting, financial reporting,
and internal control game plans
surprisingly similar to mutual funds
Are you a mutual fund sponsor looking to expand into the exchange traded fund (ETF) arena? An ETF sponsor wanting to launch another fund? Or are you new to the ETF game? In all three cases, among the many considerations you’ll have to deal with is the need to comply with the complex accounting, financial reporting, and internal control requirements for ETFs. Mutual funds, in particular, may be concerned that these rules are very different from what they’re used to.

However, according to Sean McKee, KPMG LLP’s (KPMG) national leader of Public Investment Management, “It may come as a surprise that many of the accounting, internal control, and financial reporting processes of ETFs and mutual funds are quite similar; like two football teams that favor an aggressive passing offense and a bend-but-don’t-break defense, the plays may have different names, but the execution is similar. So launching or transitioning to an ETF may be less daunting than you think.”

Regardless of whether you are sponsoring an ETF, mutual fund, or both, it’s very likely you’ll need the assistance of service providers to help establish and implement these systems. (For an overview of the various service providers that inhabit the ETF playing field, and an explanation of what they do, click here.) The good news is that because of the similarities between mutual funds and ETFs in this respect, service providers deeply experienced in mutual funds will also be able to provide assistance with respect to ETFs.

**Former SEC regulators weigh in**

Two KPMG Audit partners who formerly served at the U.S. Securities and Exchange Commission (SEC) providing guidance on ETF and mutual fund accounting, auditing, and regulatory matters, echoed McKee’s assessment.

“One of the things we recognized as we reviewed hundreds of ETF registrants’ accounting, financial reporting, and internal controls systems was that they were essentially the same as the setups for mutual funds,” noted John Russo.

Added Chad Gazzillo, “The regulatory principles impacting both ETFs and mutual funds were very similar. We found that advisers with extensive experience working with traditional mutual funds were easily able to transition into the ETF space.”

**Soaring ETF growth**

ETFs continue to grow at a record setting pace. In 2016, a record $287.5 billion flowed into ETFs listed on U.S. exchanges. Nearly 250 ETFs were launched last year, and their assets surpassed $2.56 trillion. Indeed, like the many NFL teams that have evolved from the ground-and-pound running game to a pass-oriented offense, huge amounts of money have moved from traditional mutual funds into ETFs, and projections call for continued double-digit growth as a result of their appeal to investors.

As we’ve discussed in prior chapters in our ETF Playbook series, although ETFs are not mutual funds, they have some similarities, but also significant differences. For example, both must register as an investment company and are, therefore, subject to similar regulatory requirements.²

In this chapter of the ETF Playbook series, we take a look at the many similarities between ETFs and mutual funds as well as some of their differences, with respect to accounting, financial reporting, internal controls, and some other general characteristics.

A record $97.6 billion flowed into ETFs of U.S. equity stocks last year between November 8 and December 15 following the elections.

*Source: TrimTabs Investment Research 2016*

¹ Source: ETF.com

² Most ETFs must register with the SEC as an open-end investment company or unit investment trust. Exceptions include certain exchange-traded notes and commodity-based ETFs, which are exempt from regulation under the ‘40 Act but are regulated under the Securities Act of 1933 (‘33 Act) and may also be regulated by the Commodity Futures Trading Commission.
Accounting and financial reporting

Similarities:
ETFs and mutual funds are subject to the same types of:

— Regulatory requirements under federal securities laws\(^3\)
— Limitations on their use of leverage and transactions with affiliates
— Reporting and disclosure requirements relating to investment objectives, risks, expenses, and other information in their registration statements\(^4\) and periodic reports
— Oversight by boards of directors.

Accounting and financial reporting similarities, including the following:

— The use of investment company accounting\(^5\)
— The calculation of net asset value (NAV), which must be done every business day
— The valuation of investments and related disclosures\(^6\)
— The use of “trade date accounting” for security purchases and sales;\(^7\) in other words, security transactions must be recorded on the date that the trade is made
— Recognition of investment income, such as interest and dividends
— The recognition, measurement, and disclosure of derivative transactions\(^8\)
— The recognition, measurement, and disclosure of liabilities, including debt and corresponding expenses
— Many operational expenses (however, ETFs may incur some types of expenses that mutual funds do not, including listing and index-licensing fees)
— Both ETFs and mutual funds must disclose gains or losses from in-kind redemptions.\(^9\)

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\(^3\) The majority of ETFs are registered as open-end management investment companies (or less frequently, as unit investment trusts) under the ’40 Act. They are regulated by the U.S. SEC, although they must first receive exemptive relief from certain provisions of the Investment Company Act of 1940 (’40 Act) before they can begin operations.

\(^4\) Both ETFs and mutual funds must file periodic financial reports with the SEC using Form N-CSR within 60 days of a period’s close. However, commodity ETFs under the ’33 Act file use Form 10-Q for interim periods and 10-K for annual periods.

\(^5\) See FASB ASC 946, Financial Services – Investment Companies

\(^6\) See FASB ASC 820, Fair Value Measurements

\(^7\) See FASB ASC 946-320-25-1

\(^8\) See FASB ASC 815, Derivatives and Hedging

\(^9\) The permanent difference for realized gains or losses will result in adjustments within the equity components of net assets listed on financial statements.
Differences:
— ETFs do not sell individual shares directly to, or redeem them directly from, retail investors like mutual funds do. Authorized participants (APs), typically financial institutions, are the only investors allowed to interact directly with the ETF.
— APs transact in shares of the ETF by creating shares that a distributor can sell (called “creation units”) and then redeeming the shares. These transactions are accomplished in bulk transactions, commonly referred to as “baskets.”
— ETFs trade on stock exchanges throughout the entire trading day, and their market prices fluctuate based on supply and demand. On the other hand, mutual funds are priced once daily after the market closes at the fund’s NAV.
— Certain ETFs opt to disclose their total return based on the market value of their shares; that is in addition to the required total return calculation based on the NAV.
— Many ETFs disclose their holdings daily to the public in addition to the quarterly disclosure required for all mutual funds.
— ETFs generally are redeemable “in-kind.” That means the ETF may deliver specified portfolio securities to the redeeming APs instead of selling securities to raise cash to accommodate redemptions.
— Selling securities could trigger taxable gains to the ETF, which could be passed through to the retail investor. Therefore, selling shares of ETFs can be more tax-efficient compared with mutual funds for a retail investor.
— Nonetheless, the accounting and financial reporting of in-kind redemptions and sales of securities to meet redemption requests are the same.

Types of ETFs
Below are the four basic types of ETFs:
— Most ETFs are index based and seek to track a securities index. These so-called passive ETFs generally invest in securities that make up the index. Some ETFs track indexes that reflect a particular market sector.
— Leveraged or inverse ETFs seek to deliver daily returns that are multiples (or inverse multiples) of the performance of an index or other benchmark.
— Actively managed ETFs pursue active-management strategies and publish portfolio holdings daily.
— Commodity ETFs are focused on investments in commodities, such as gold, platinum, and silver.

ETFs versus mutual funds
Key accounting and financial reporting standards

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<th>Similarities</th>
<th>Differences</th>
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<tr>
<td>— Treatment of investment balances, activities, and related income</td>
<td>— ETFs only allow direct transactions by APs</td>
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<tr>
<td>— Treatment of derivative balances, transactions, and related income</td>
<td>— The use of creation units by APs allows ETFs to more readily make in-kind transfers of investment securities to satisfy redemptions</td>
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<td>— Accounting for liabilities, including debt and corresponding expenses</td>
<td>— ETFs allows investor transactions in the secondary market (stock exchanges)</td>
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<td>— NAV calculations (although ETFs can be purchased and sold on stock exchanges)</td>
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<td>— Preparation of financial statements, highlights, and schedules in an annual report</td>
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<td>— Filing of financial statements</td>
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Internal control over financial reporting

All investment companies, including ETFs, are responsible for establishing and maintaining adequate internal controls over financial reporting (ICOFR) under the Sarbanes-Oxley Act (SOX).

The SEC requires management of ETFs and mutual funds to evaluate the effectiveness of the issuer’s ICOFR as of the end of each fiscal year. The principal executive and financial officers must disclose to their audit committee and independent auditors all significant deficiencies and material weaknesses found in the design or operation of ICOFR.

SOX generally exempts ETFs and mutual funds from provisions that require a management report and an attestation report of a registered public accounting firm regarding ICOFR.\textsuperscript{10}

When it comes to ICOFR, there are few differences between ETFs and mutual funds. Still, your management may need to tailor its internal controls of ETFs to ascertain that:

— Equity transactions with an AP who creates and redeems equity units are recorded on a timely basis.
— In-kind transactions are recorded and fairly disclosed.
— With respect to ETFs with physical possession of commodities, the inventory is recorded and protected from misappropriation.
  — This also includes taking into account the internal control of custodians and subcustodians, and their use of physical inventory counts. (It’s typical to hire a third-party service provider to assist in this effort.)

Conclusion

Many investment companies that manage mutual funds are introducing ETF products. Some are doing it as a defensive maneuver, trying to protect their position against competition that is, or will soon be, offering their own ETFs. Others are using it as an offensive strategy, seeking to capture new ETF business before the field becomes too crowded.

Whether you are new to the ETF game or merely expanding your options, it is essential to have appropriate accounting, financial reporting, and internal control systems in place to compete effectively.

As this article illustrates, there are many similarities between ETFs and mutual funds. So if you are looking for a professional services firm to assist you in the launch of your ETF, one with deep 1940 Act experience should fit the bill nicely. They should be able to help you tackle the challenge of launching your ETF, avoid dropping the ball, and put you in position for a winning drive.

The ETF playbook series

Our ETF playbook series is designed to provide practical insights to help firms of all sizes compete and enhance their game plans for success in the growing and highly competitive ETF market.

In addition to this current article, the series includes the following chapters:

— ETF playbook: Drawing up a game plan for success
— ETF tax efficiency: Fact or fiction
— Six key tech and ops factors critical to ETF success

\textsuperscript{10} Section 405 of SOX generally exempts ETFs subject to the ’40 Act and mutual funds from provisions of Section 404 that require a report of management and an attestation report of a registered public accounting firm on ICOFR, but commodity ETFs subject to the ’33 Act are not exempt.
How KPMG can help

KPMG is a leading provider to the financial services industry, serving more than 70 percent of the FORTUNE 1000 financial services companies in the United States. And through the global KPMG network, member firms serve clients worldwide with more than 2,700 partners and almost 39,000 professionals in the Financial Services practice.

We provide Audit, Tax, and Advisory services to a broad range of industry players—from start-ups to FORTUNE 50 diversified financial service firms—enhancing financial and operational structures and helping our clients proactively take advantage of change rather than merely reacting to it.

KPMG can provide assistance to all of the service providers in the ETF ecosystem and can help them expand and grow their ETF capabilities.

We offer:

— Deep industry experience: Regardless of where your firm is in its evolution—from launch to globalization to exit—our professionals have the passion and experience to help you deal with the issues and challenges that impact you today, as well as prepare you for what lies ahead.

— Global strength and capabilities: The KPMG global network of member firms includes professionals located in all of the world’s commercial hubs, enabling us to serve our clients wherever they do business.

— Outstanding team leadership by senior professionals: Our engagement teams, led by senior partners and professionals, work with you to offer practical, customized, and appropriate insights and guidance and can deliver real, tangible results.

— Advanced technology and innovation: We supplement our hands-on approach with industry-leading technology capabilities that help enable you to operate and leverage your resources—people, vendors, legacy platforms, and equipment—more efficiently.

11 FORTUNE 1000, 2015.
Glossary – Ecosystem of ETF industry roles

The roles in the ETF industry represent an ecosystem of different and specialized operational services and technology capabilities. Only a handful of the largest ETF sponsors have the infrastructure and resources to build and support a comprehensive ETF platform with all the required roles and functions.

Mid-sized and smaller ETF sponsors typically will utilize outsourcers to provide the vast majority of the technology and operations in the ETF ecosystem. Even among the different ETF roles, specialization is necessary to achieve economies of scale in order to keep fees low for investors.

For purposes of simplicity, we have grouped the ETF roles into three groups:

- **Primary providers**
- **Supporting providers**
- **Regulatory entities**

Each of the players in these groups has very specific and complex operational functions and technological capabilities. KPMG has the experience and ability to work with each of these different groups and assist with:

- Transforming platforms
- Improving levels of automation
- Implementing innovative data management and analytical capabilities.
Index receipt agent (aka ETF agent) – The index receipt agent has an essential and distinct role in that it provides the coordination and linkage of the various ETF roles. It maintains a platform that provides links and interfaces among the:

- Sponsor
- Index provider
- Authorized participants
- Exchanges
- Depository
- Regulatory entities.

On a daily basis, the index receipt agent:

- Gathers updated indexes
- Collects and publishes “create and redeem” baskets
- Assists with publishing the net asset value (NAV)
- Interfaces with the depository.

Index receipt agents typically offer bundling of other services, including the roles of administrator, distributor, custodian, record keeper, fund counsel, tax advisor, treasury/cash management, and/or transfer agent.

Depository – The depository is the central mechanism by which ETF information is registered and shared to the world. In the United States, the Depository Trust & Clearing Corporation (DTCC) provides this key role by:

- Gathering and publishing all ETF indexes
- Automating the ETF create/redeem process among ETF participants.¹

DTCC provides a trade settlement function in its continuous net settlement (CNS) service for the create/redeem process. DTCC also provides surveillance reports to the industry about ETF activities.²

Authorized participants (aka market makers) – Authorized participants (APs) are often large banks or dedicated trading firms that provide market making and liquidity services for ETFs. APs initiate the:

- Create process to create new shares of ETFs
- Redeem process to eliminate ETF shares from the market

To create new shares of an ETF, APs exchange securities and cash with the depository in return for the corresponding amount of new ETF shares from the depository. In return for providing liquidity, APs are compensated by receiving the arbitrage value between the ETF and its underlying assets during the create/redeem process. In addition, ETF sponsors may act as an AP for their ETFs concurrently with other APs.

Stock exchanges – ETF sponsors must apply and receive permission to register a new ETF with a stock exchange. This normally occurs after the SEC has granted permission to start the new ETF. Exchanges have a number of rules to which the ETF must adhere in order to trade on it.

Exchanges may be able to calculate an ETF’s indicative intraday price or require that the ETF utilize a third-party service to do the calculation. Also, in the secondary market, exchanges support the trading of ETFs among investors.

Custodian – The custodian’s primary role is to hold and safeguard ETF assets. Custodians also provide trade processing, settlement, custody, and clearing for the create/redeem process. Some custodians provide securities lending, collateral management, and tax preparation services.

Record keeper – Record keepers provide fund accounting, valuation, and NAV calculations for an ETF. Note that index receipt agents frequently provide a bundling of record-keeping functions.

Transfer agencies – Transfer agencies keep track of which brokerage firms have custody of the various ETF shares, as well as the investors who own the shares. They work in close coordination with custodians.

¹ http://www.dtcc.com/clearing-services/equities-trade-capture/etf.aspx
Secondary ETF roles

Distributors – Distributors have the role of conducting sales support for an ETF. For example, the distributor will reach out to brokerage firms, registered investment advisors (RIAs), retirement plan owners to:

— Introduce the ETF to them
— Support inclusion of the ETF into sell-side firms’ ETF inventories.

In some cases, the ETF sponsor will act as the distributor, especially if it has existing fund wholesaler resources. Smaller ETFs, however, are more likely to utilize the services of a distributor since they typically lack a dedicated sales force.

Independent auditor – Each ETF must have an independent auditor who will audit the ETFs in adherence to accounting and regulatory requirements.

Fund counsel – As noted above, ETFs must register with an exchange and file an application with the SEC. ETF sponsors need to retain legal counsel—generally one that specializes in mutual funds and ETFs—to help navigate the registration and application processes.

Advisors – This term is used to refer to brokers and RIAs who provide investment advice about ETFs to investors.

Regulatory roles

The regulators are the governing entities that oversee and enforce ETF regulations. Regulatory agencies are often supported by the monitoring and reporting that is conducted by exchanges and the depository.

SEC: The SEC is the primary regulatory body overseeing the ETF market in the United States. The SEC issues regulations and also has an examination and enforcement arm to administer fines and other disciplinary action for rule violations.

CFTC: The CFTC oversees ETFs that contain certain derivative securities and/or commodities funds. Similar to the SEC, the CFTC investigates and prosecutes alleged violations of the Commodity Exchange Act and Commission regulations.

Primary providers

ETF sponsors (aka ETF owner, ETF advisor, ETF issuer, and ETF fund manager) – It all starts with the ETF sponsor, who is the owner, originator, and primary portfolio manager for an ETF. The sponsor:

— Establishes the ETF’s investment strategy and prospectus
— Applies to regulators and stock exchanges (see above) for permission to issue a new ETF.

From a technology and operations perspective, the sponsor has very important decisions to make in terms of selecting all the service providers to fulfill all of the other needed roles in the ETF ecosystem.

Index providers – The primary portfolio construct for an ETF is represented as an index, such as the S&P 500 or Dow Jones Industry Average. The index provider selects the underlying investments and their weights within an ETF. The portfolio of the ETF’s underlying investment components are packaged into an index and then sent to the index receipt agent, who plays another important role in the ETF ecosystem (see above).

The frequency of component changes within an ETF index ranges from daily to annually.

— For passive ETFs, index providers are often firms who specialize in publishing widely used indexes, such as Dow Jones, a McGraw Hill Financial company, who publishes the S&P 500 index.
— For active ETFs, it is common for the ETF sponsor or designated sub advisor to act as the portfolio manager and index provider.

ETF administrators – Day-to-day administration of ETF operational functions is provided by the administrator. The administrator coordinates:

— Technology services
— Operational services
— Financial administration
— Compliance oversight

Some large ETF sponsors function as their own administrator, but most ETFs outsource this role to a dedicated service provider with a highly scaled and efficient platform to service many ETFs. ETF administrators typically offer a bundle of other services and roles, including the index receipt and/or distributor (see above) role.
How KPMG can help

KPMG is a leading provider to the financial services industry, serving more than more than 25% of Fortune 1000 companies in the United States. And through our global network of member firms, we serve clients worldwide with more than 2,700 partners and almost 39,000 professionals.

Our firm provides professional services to:
— Nearly 80 percent of the top 50 U.S. stock-based mutual funds
— 70 percent of the 50 leading asset management firms in the United States
— 95 percent of the top 20 public money managers and their funds.11

We provide audit, tax and advisory services to a broad range of industry players—from start-ups to FORTUNE 50 diversified financial service firms—enhancing financial and operational structures, and helping our clients proactively take advantage of change rather than merely reacting to it.

We offer:
— Deep industry experience: Regardless of where your firm is in its evolution—from launch to globalization to exit—our professionals have the passion and experience to help you deal with the issues and challenges that impact you today, as well as prepare you for what lies ahead.

— Global strength and capabilities: Our global network of member firms includes professionals located in all of the world’s commercial hubs, enabling us to serve our clients wherever they do business.

— Outstanding team leadership by senior professionals: Our engagement teams, led by senior partners and professionals, work shoulder-to-shoulder with you to offer practical, customized and appropriate insight and guidance, and deliver tangible results.

— Advanced technology and innovation: We supplement our hands-on approach with industry-leading technology and innovation capabilities that enable you to operate and leverage your resources—people, vendors, legacy platforms and equipment—more efficiently.

11 KPMG Analytics
Contact us

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