

APPENDIX R

Platform Implementation and Launch Readiness

Hosting Requirements — Integration Checklist — Go-Live Timeline — Support Model

Confidential — For Informational Purposes Only — Patent Pending

This appendix is the technical and operational reference document for parties preparing to launch the DCXchange.net platform under any of the three commercial arrangements — License to Operate, Platform Business Sale, or Technology/IP Acquisition. It documents the hosting requirements, third-party integration checklist, pre-launch validation checklist, estimated go-live timeline, and ongoing support model. A licensee or acquirer who follows this document has everything needed to take the platform from delivery to first live listing.

ESTIMATED TIME FROM PLATFORM DELIVERY TO FIRST LIVE LISTING

A licensee with competent technical staff and pre-arranged hosting can complete all infrastructure setup, platform installation, third-party integrations, and pre-launch testing in 15 to 22 business days. App Store approval for the iOS and Android native applications requires an additional 3 to 7 business days of Apple and Google review time that runs concurrently with internal testing. A realistic go-live target for a prepared licensee is 22 business days from platform delivery.

SECTION 1 — HOSTING AND INFRASTRUCTURE REQUIREMENTS

The DCXchange.net platform is a web-based application built on Microsoft SQL Server for data persistence. It does not require proprietary hosting, specialized hardware, or vendor-specific infrastructure. Any competent hosting provider — including major cloud platforms (Microsoft Azure, Amazon Web Services, Google Cloud) and dedicated server providers — can host the platform. The following table specifies minimum requirements for each infrastructure component at initial launch.

Infrastructure Component	Specification	Recommended Provider
Application Server	Windows Server 2022 or Linux (Ubuntu 22.04 LTS). Minimum 4 vCPU, 16 GB RAM for initial deployment. Scales horizontally for growth.	Microsoft Azure, AWS, or dedicated hosting. Cloud preferred for scalability and managed failover.
Database Server	Microsoft SQL Server 2022 (Standard or Enterprise edition). Minimum 8 vCPU, 32 GB RAM, 500 GB SSD storage at launch. Separate from application server.	Azure SQL Managed Instance or dedicated SQL Server VM. Automated backup required.
File Storage	Blob/object storage for due diligence document uploads, listing images, and exported reports. Minimum 2 TB initial allocation with auto-scaling.	Azure Blob Storage, AWS S3, or equivalent. CDN integration recommended for document delivery speed.
WebSocket Server	Real-time event stream server for live auction bid updates, market ticker, and push notification delivery. Can be co-hosted with application server at launch.	Same hosting environment as application server. Separate WebSocket server

		recommended at scale above 5,000 concurrent connections.
SSL Certificate	Wildcard SSL certificate for the primary domain and all subdomains. Required for PWA functionality and all data transmission.	Let's Encrypt (free, auto-renewing) or commercial certificate authority.
Email Delivery Service	Transactional email for account verification, listing alerts, message notifications, and subscription receipts.	SendGrid, AWS SES, or Mailgun. Minimum 50,000 emails per month at launch.
Push Notification Service	Apple Push Notification Service (APNs) account for iOS and Firebase Cloud Messaging (FCM) account for Android.	Apple Developer Program membership (\$99/year). Google Firebase account (free tier sufficient at launch).
Domain and DNS	Primary domain registration and DNS management. Subdomains for API, admin, and mobile app endpoints.	Any registrar. Cloudflare DNS recommended for DDoS protection and performance.

CLOUD VS. DEDICATED HOSTING

Cloud hosting is strongly recommended for the initial deployment. Cloud infrastructure provides managed failover, automated scaling, geographic redundancy, and pay-as-you-grow cost structure that is appropriate for a platform in its growth phase. A licensee who expects to grow from zero to 5,000 participants in year one will find cloud infrastructure far easier to manage than a fixed dedicated server environment. The platform has been designed to operate on standard cloud infrastructure without any cloud-vendor-specific dependencies.

SECTION 2 — THIRD-PARTY INTEGRATION CHECKLIST

The following table documents all third-party integrations required or recommended for full platform operation. Each integration has a defined configuration scope and estimated setup time. All integrations use standard API-based connectivity — no proprietary middleware or custom integration development is required.

Integration	Scope	Configuration Required	Est. Setup Time
Payment Processing	Stripe or equivalent for subscription billing. Processes seller and buyer subscription payments. No instrument transaction payments processed through the platform.	API keys configured. Webhook endpoints for subscription events. Test mode validation before go-live.	2–3 days
Email Delivery	SendGrid, AWS SES, or equivalent. All transactional emails routed through the configured provider.	API key configured. Sending domain verified and authenticated (SPF, DKIM, DMARC records). Templates uploaded.	1–2 days
Push Notifications	APNs (iOS) and FCM (Android) configured for native app push delivery.	APNs certificate uploaded. FCM server key configured. Test notifications sent to internal test devices.	1 day

Biometric Auth	iOS Face ID / Touch ID and Android biometric authentication configured in native app settings.	Native app build includes biometric auth module. Device-level testing completed on representative iOS and Android hardware.	Included in app build
App Store Submission	iOS app submitted to Apple App Store. Android app submitted to Google Play Store.	Apple Developer account active. App Review Guidelines compliance confirmed. Privacy policy and terms of service URLs in submission metadata.	3–7 days (review time)
Identity Verification	Third-party identity verification service for participant KYC (optional but recommended). Jumio, Persona, or equivalent.	API keys configured. Verification workflow integrated with account registration flow. Test verifications completed.	3–5 days
Analytics	Platform-internal analytics dashboard (no third-party required). Optional: Google Analytics 4 for marketing traffic analysis.	Internal analytics tables seeded. Dashboard queries validated against test data.	1 day
Backup and Monitoring	Automated database backup (daily minimum). Application performance monitoring (APM). Uptime monitoring with alerting.	Backup schedule configured and tested with restore verification. APM agent installed. Uptime alerts configured to operator email and SMS.	1–2 days

SECTION 3 — PRE-LAUNCH VALIDATION CHECKLIST

The following checklist covers every item that must be completed and validated before the platform is opened to participants. This checklist is organized into four categories. Every item should be signed off by the technical lead or platform operator before proceeding to launch. Items marked with a checkbox symbol are confirmation items that require a manual verification step.

Category	Checklist Items
Infrastructure	<input type="checkbox"/> Hosting environment provisioned and configured
	<input type="checkbox"/> Database server deployed and SQL Server installed
	<input type="checkbox"/> SSL certificate installed and validated on all endpoints
	<input type="checkbox"/> File storage configured and connected to application
	<input type="checkbox"/> WebSocket server configured and tested
	<input type="checkbox"/> Email delivery service configured with authenticated sending domain
	<input type="checkbox"/> Automated backup scheduled and restore tested
	<input type="checkbox"/> Uptime monitoring active with alert contacts configured
	<input type="checkbox"/> DDoS protection active (Cloudflare or equivalent)
Platform Configuration	<input type="checkbox"/> Domain and DNS configured. All subdomains resolving correctly.

	<input type="checkbox"/> Platform installed and application services running
	<input type="checkbox"/> Database schema deployed. All tables created and indexed.
	<input type="checkbox"/> Admin account created and secured
	<input type="checkbox"/> Platform branding applied (logo, colors, domain references)
	<input type="checkbox"/> Terms of Service and Privacy Policy live at published URLs
	<input type="checkbox"/> Email templates configured (verification, alerts, notifications, receipts)
	<input type="checkbox"/> Payment processing configured in live mode with test transaction verified
	<input type="checkbox"/> All subscription tiers configured with correct pricing and features
	<input type="checkbox"/> Instrument taxonomy loaded — all 15 categories and 150+ instrument types active
	<input type="checkbox"/> Schema Engine field definitions validated for each instrument category
Mobile Applications	<input type="checkbox"/> PWA manifest configured with correct branding, icons, and start URL
	<input type="checkbox"/> Service worker deployed and caching verified
	<input type="checkbox"/> iOS native app build compiled with production API endpoints
	<input type="checkbox"/> iOS app tested on physical device (iPhone and iPad)
	<input type="checkbox"/> iOS app submitted to App Store and approved
	<input type="checkbox"/> Android native app build compiled with production API endpoints
	<input type="checkbox"/> Android app tested on physical device (Android phone and tablet)
	<input type="checkbox"/> Android app submitted to Google Play and approved
	<input type="checkbox"/> Push notifications tested end-to-end on iOS and Android
	<input type="checkbox"/> Biometric authentication tested on iOS and Android
Security and Compliance	<input type="checkbox"/> TLS enforced on all endpoints — HTTP to HTTPS redirect active
	<input type="checkbox"/> Password hashing algorithm configured (bcrypt or Argon2)
	<input type="checkbox"/> Session token configuration validated — signed, time-limited, secure storage
	<input type="checkbox"/> Role and tier permission framework tested — all access control scenarios verified
	<input type="checkbox"/> Audit logging active and recording all significant platform events
	<input type="checkbox"/> Data breach response protocol documented and team trained
	<input type="checkbox"/> Privacy policy current and published at accessible URL
	<input type="checkbox"/> Terms of Service current, conspicuously displayed, and click-wrap acceptance required at registration
Pre-Launch Validation	<input type="checkbox"/> End-to-end seller journey tested — registration through listing activation
	<input type="checkbox"/> End-to-end buyer journey tested — registration through contact initiation
	<input type="checkbox"/> Auction module tested — listing creation through bid submission through close

	<input type="checkbox"/> Internal Messaging System tested — thread creation, document request, offer submission
	<input type="checkbox"/> Saved search alerts tested — alert creation, listing publication, alert delivery <input type="checkbox"/> Analytics dashboard validated against test listing data <input type="checkbox"/> Market activity ticker tested with simulated listing and bid events
	<input type="checkbox"/> Live auction bid chart tested with simulated bid sequence
	<input type="checkbox"/> Payment processing tested — subscription activation, renewal, and cancellation <input type="checkbox"/> All email notifications tested and rendering correctly across major email clients <input type="checkbox"/> Mobile app tested end-to-end on iOS and Android <input type="checkbox"/> Performance load test completed — application stable under simulated concurrent user load

SECTION 4 — ESTIMATED GO-LIVE TIMELINE

The following timeline represents an aggressive but achievable implementation schedule for a licensee with competent technical staff and pre-arranged hosting. Items that can run concurrently are noted. The App Store submission window runs concurrently with internal testing and does not add to the critical path if submitted on Day 10.

Period	Phase	Key Activities
Days 1–3	Hosting and Infrastructure	Provision servers, install SQL Server, configure SSL, set up file storage, configure email delivery, configure backup and monitoring.
Days 4–5	Platform Installation	Install platform application, deploy database schema, configure admin account, apply branding, upload instrument taxonomy.
Days 6–7	Third-Party Integration	Configure payment processing in live mode, configure push notification services, configure identity verification if applicable.
Days 8–9	Terms and Legal	Publish Terms of Service and Privacy Policy at accessible URLs. Configure click-wrap acceptance requirement in registration flow. Legal review of Terms of Service by licensee’s counsel.
Days 10–12	Mobile Application	Submit iOS app to App Store. Submit Android app to Google Play. Configure PWA manifest. App Store review typically requires 3–5 business days.
Days 13–16	Testing and Validation	End-to-end journey testing. Auction module testing. Performance load testing. All checklist items completed and signed off.
Days 17–18	Soft Launch	Platform goes live to invited initial participant group. Account manager monitors for issues. Support channel active.
Days 19–21	App Store Approval	iOS and Android apps approved and live in respective stores (if not already approved during testing window).

Day 22+	Full Launch	Platform open to all participants. Marketing and outreach campaigns active. Buyer network outreach initiated. Government and institutional onboarding outreach begins.
----------------	-------------	--

CRITICAL PATH ITEM

The single most common cause of launch delay is App Store approval for the iOS application. Apple’s review process typically takes 3 to 7 business days but can take longer during high-volume review periods. Submit the iOS application on Day 10 or earlier. Do not wait for internal testing to be fully complete before submission — minor revisions can be addressed in a rapid update after approval. The Android approval process is generally faster (1–3 days) and is not on the critical path.

SECTION 5 — ONGOING SUPPORT MODEL

The following support model applies to all commercial arrangements. Licensees operating under a License to Operate receive the support model as defined in their license agreement. Platform business buyers and technology acquirers establish their own support infrastructure, and the support model below represents the recommended baseline.

Support Function	Description
Participant Support	In-platform help system with contextual guidance. Email support at support@dcxchange.net. Response time commitment: 24 hours for general inquiries, 4 hours for listing-critical issues.
Technical Support (Operator)	Dedicated technical support channel for platform operator staff. Documentation library covering all platform configuration and administration functions.
Institutional Account Management	Dedicated account manager for all Enterprise seller and Institutional buyer accounts. Proactive check-ins at 30, 60, and 90 days post-onboarding.
Escalation Protocol	Platform-threatening technical issues escalate to TooziT technical team within 1 hour under License to Operate arrangements. Platform business buyers and technology acquirers manage their own escalation infrastructure.
Listing Support	Sellers who are unable to complete a listing using self-service tools can request assisted listing creation through the support channel. Account manager guides the seller through the process on a scheduled call.

SECTION 6 — KEY OPERATIONAL METRICS TO MONITOR AT LAUNCH

The following metrics should be monitored daily during the first 90 days of operation and reported weekly to the platform operator and any relevant TooziT contact under a License to Operate arrangement.

Metric	Why It Matters
New account registrations per day	Primary indicator of top-of-funnel growth. Separate tracking for seller accounts and buyer accounts.
Verification completion rate	Percentage of registered accounts that complete identity verification. Low completion rate indicates friction in the verification flow.

Listings published per day	Primary indicator of supply-side health. A platform without supply has no network effect.
Time from registration to first listing (seller)	Measures onboarding friction. Target: 80% of sellers publish their first listing within 7 days of registration.
Buyer contact initiation rate	Percentage of active listings that receive at least one buyer contact. Measures demand-side engagement.
Time from listing publication to first buyer contact	Measures the quality of buyer-seller matching. Target: 80% of listings receive first contact within 14 days.
Saved search alert delivery success rate	Percentage of triggered alerts successfully delivered. Monitor for email deliverability and push notification delivery issues.
Auction participation rate	Percentage of auction listings that receive at least one qualifying bid. Measures auction module health.
Subscription upgrade rate	Percentage of Free and Explorer tier accounts upgrading to paid tiers within 30 days. Primary revenue conversion metric.
Platform uptime	Target: 99.9% uptime measured monthly. Downtime events logged with root cause analysis.

From Delivery to First Live Listing in 22 Business Days. Every Step Documented.

This section addresses the ongoing technical staffing, maintenance requirements, and build complexity of the DCXchange.net platform. It is written for licensing candidates and platform buyers evaluating the operational cost and technical feasibility of running the platform. For technology acquirers evaluating replacement cost and valuation, this section provides the development effort analysis that underlies the pre-launch acquisition price range.

TECHNOLOGY STACK MAINTAINABILITY

The DCXchange.net platform is built entirely on the Microsoft .NET technology stack — ASP.NET, C#, Visual Basic, Microsoft SQL Server, HTML, CSS, and JavaScript — with native mobile applications in Swift (iOS) and Kotlin (Android). This is one of the most widely taught, most extensively documented, and most broadly supported technology stacks in professional software development.

Every technology in this stack is available from a large pool of experienced developers in every US metropolitan market. SQL Server DBAs and ASP.NET developers are abundant, well-paid, and professionally certified through standard industry programs. A licensee or acquirer does not face a specialized talent acquisition problem. They face a standard .NET web development hiring problem, which is a solved problem with a well-understood cost structure.

WHAT THIS MEANS FOR OPERATING COST

A licensee who needs to hire a backend developer to extend the platform is hiring from the same pool as every mid-market software company in the country. Salaries are market-rate and predictable. Contract developers are available. The platform does not require a team of specialists with niche knowledge of proprietary frameworks or unusual architecture patterns.

RECOMMENDED ONGOING DEVELOPMENT TEAM

The following team structure represents the minimum staffing required to maintain the platform at full operational status and continue active feature development. A licensee who intends to operate the platform as-is without significant new feature development can operate with a smaller team, particularly in the first year.

Role	Technology Expertise	FTE	Responsibilities
Database Administrator	.NET / SQL Server DBA	1	Schema management, query optimization, backup and recovery, performance monitoring, SQL Server patch management.
Backend Developer	C# / ASP.NET Web API	1–2	API layer maintenance, business logic updates, Schema Engine configuration, new feature development, third-party integration maintenance.
Frontend Developer	HTML / CSS / JavaScript	1	UI updates, new listing form fields, conditional visibility logic, analytics dashboard maintenance, market ticker and bid chart updates.
Mobile Developer	Swift (iOS) / Kotlin (Android)	1	Native app maintenance, OS compatibility updates, App Store policy compliance updates, new mobile feature development. One developer can handle both platforms at maintenance level.
DevOps / System Administrator	Windows Server / IIS / Azure or AWS	1 part-time	Server patch management, deployment automation, backup verification, uptime monitoring, SSL certificate renewal, hosting cost management.

Total recommended team: 4.5 to 5.5 FTE for a fully operational, actively developed platform. For a licensee in the first year focused on market launch and participant acquisition rather than new feature development, a team of 2 to 3 FTE — one backend developer, one frontend developer, and a part-time DBA / DevOps — is sufficient to maintain the platform and support participants.

MOBILE DEVELOPER NOTE

The native iOS and Android applications require periodic updates for operating system compatibility — typically once per major OS release cycle — and for App Store and Google Play policy compliance updates. A developer with both Swift and Kotlin proficiency can handle both platforms at the maintenance level. At the feature development level, separate iOS and Android developers produce better results but are not required for operational continuity.

BUILD COMPLEXITY AND REPLACEMENT COST ANALYSIS

The following analysis documents what a company building a comparable platform from scratch would require in terms of team size, development time, and capital investment. This analysis underlies the pre-launch acquisition price range documented in the main pro forma and in the Platform Technology White Paper.

A company attempting to build a platform comparable to DCXchange.net — one that supports 150+ instrument types across 15 categories, serves sellers and buyers across four tiers each, includes a real-time WebSocket auction engine, a native iOS application, a native Android application, a PWA, a patent-pending dynamic schema engine, a cryptographically auditable internal messaging system, a geographic analytics dashboard, a fractional listing system, and a complete due diligence document management system — would require the following:

Build Approach	Dev Cost	Timeline	Ongoing Maint.	New Instrument Cost
----------------	----------	----------	----------------	---------------------

Hard-coded multi-instrument platform	150+ instrument types × separate form + table + API + search per type	\$2,000,000–\$5,000,000	24–36 months	Exponential — every new instrument type requires a full development cycle
Generic listing platform adapted for notes	Adaptation of a general marketplace to financial instrument specifics	\$500,000–\$1,500,000	12–18 months	High — instrument-specific logic embedded throughout codebase
DCXchange.net (Schema Engine architecture)	One configurable architecture serving all instrument types	\$800,000–\$1,500,000	12–18 months	Low — new instrument types added through admin interface, not code deployment

The team required to build DCXchange.net from scratch at the institutional level would include a database architect, a backend API team lead and two to three backend developers, two frontend developers, one iOS developer, one Android developer, one QA engineer, one security architect, and a project manager. That team, operating at standard enterprise development rates, would spend 18 to 24 months producing a platform equivalent to what DCXchange.net delivers — at a cost of \$1,500,000 to \$2,500,000 in development labor alone, before infrastructure, licensing, legal, and operational costs.

And that team, after spending 18 to 24 months and \$2,000,000, would still not have produced a legal equivalent of the DCXchange.net Configurable Instrument Schema Engine. The patent applications covering that architecture mean that a company building a competing platform using the same schema-driven approach without a license from TooziT would be building on a legal risk that no well-advised technology company will accept.

THE ACQUISITION VALUATION ANCHOR

The pre-launch acquisition price range of \$5,000,000 to \$12,000,000 is not arbitrary. It reflects the replacement cost of the development effort, the value of 14 patent applications protecting the core architecture, the value of a complete instrument taxonomy representing years of industry research, the value of a pre-built verified buyer network, and the value of first-mover position in a \$400 billion market with no dominant competitor. A technology acquirer who does the build-vs-buy analysis arrives at the same conclusion: buying DCXchange.net is faster, cheaper, and legally cleaner than building a comparable platform from scratch.

THE SCHEMA ENGINE'S MAINTENANCE ADVANTAGE

The single most important maintenance advantage of the Schema Engine architecture is what it eliminates: the recurring development cost of adding new instrument types. On a hard-coded platform, adding a new instrument category requires a developer to write new form HTML, new validation logic, new database columns or tables, new API endpoints, and new search index configuration. That work takes days to weeks per instrument type and must be repeated for every new category.

On the DCXchange.net Schema Engine architecture, adding a new instrument type requires an administrator to create a new instrument type record and a set of field definition records in the admin interface. The form renderer, the API layer, the search index, and the analytics engine all respond to

those new records automatically. No developer involvement required. No code deployment required. No platform downtime. A new instrument category can be live on the platform in hours.

Over a ten-year platform lifecycle across hundreds of instrument types and dozens of market expansions, this architectural advantage compounds into an enormous ongoing cost saving — and an enormous competitive speed advantage over any platform that does not have it.

Standard Technology. Extraordinary Architecture. A Platform Any Competent Team Can Own and Operate.

© 2026 TooziT LLC. All Rights Reserved. DCXchange.net. Patent Pending.

Confidential — For Informational Purposes Only — Not an Investment Document