14. Systems Requirements by Option

14.1 SmartAPI Integration Requirements

ERP/Client System Prerequisites

- Ability to export invoice data in one of the supported formats (JSON, XML, CSV, IDoc).
- SAP ECC: PI/PO middleware with IDoc INVOIC02 adapter enabled.
- SAP S4/HANA: CPI tenant with access to Billing Document API (`API_BILLINGDOCUMENT_SRV`).
- Oracle, Dynamics, Sage: export APIs, batch jobs, or file interfaces.

Network & Security

- HTTPS (port 443) connectivity to SmartAPI endpoints.
- Mutual TLS (client certificate) or OAuth 2.0 credentials.
- Firewall/IP allowlisting configured for SmartAPI IP ranges.
- VPN or private interconnect optional for high-security clients.

Operational Requirements

- Service account credentials provisioned in ERP for integration.
- Access for Finance/IT users to SmartAPI dashboards.
- Log forwarding integration (optional) to client SIEM.

14.2 BlueInvoice Requirements

User Environment

- Browser compatibility: latest versions of Chrome, Edge, or Firefox.
- Stable internet connection with HTTPS access.
- Corporate SSO (optional) via SAML or OAuth.

Data Requirements

- Initial master data upload:
    - Customer list with TINs
    - Product catalog with HS codes
    - Tax codes and mapping to FIRS equivalents
- Ability to export/import invoices (CSV/Excel) if bulk entry required.

Operational Requirements

- Finance users provisioned with accounts (Admin, Approver, Operator roles).
- Training session scheduled with Finance/Compliance teams.
- Optional integration to ERP for reconciliation via CSV/API.

14.3 Email Connector Requirements

User Environment

- Valid email client or ERP email integration.
- Allowed sender domain(s) whitelisted.
- DKIM/SPF alignment for corporate mail servers (recommended).

Invoice Format Support

- Attachments accepted: PDF, XML, CSV.
- File size limit: 5MB per attachment (configurable).
- Multiple invoices supported per email, with ZIP bundles allowed.

Operational Requirements

- Client-provided email addresses configured as authorized senders.
- Distribution list for receiving acknowledgements and cleared invoices.
- Optional integration of incoming cleared invoices into ERP mailboxes.

14.4 BlueBox Capture Requirements

System Environment

- Windows Server or Linux server to host BlueBox capture agent.
- Access to ERP print spooler, file drop folder, or network port.
- Minimum hardware: 4 CPU, 8GB RAM, 100GB storage.

Integration Setup

- Printer redirection or file watcher configured.
- Rules defined for invoice recognition (document type, format, folder path).
- Secure connection to SmartAPI for submission.

Operational Requirements

- Service account with permissions to read print spooler or folder.

- Firewall rules opened for SmartAPI submission channel (HTTPS).
- Dashboard access for monitoring captured invoices.

14.5 Compatibility Matrix

Option	ERP Dependency	Integration Effort	Best Fit Use Case
SmartAPI	High (ERP API or middleware)	Medium to High	Large enterprises with SAP, Oracle, Dynamics
BlueInvoice	None	Low	Subsidiaries, standalone entities, quick pilots
Email Connector	None	Very Low	Small business units, contractors, distributed teams
BlueBox	Legacy ERP print/file	Medium	Legacy or inflexible ERPs where no API is possible

<diagram: Compatibility matrix with four products mapped against ERP maturity and IT capacity>

14.6 Why Clients Benefit from This Clarity

- **No surprises** — requirements are transparent before onboarding.
- **Tailored fit** — each option matches client maturity and ERP environment.
- **Risk control** — firewall, certificate, and data readiness addressed upfront.
- **Flexibility** — clients can start with Email Connector or BlueBox and later migrate to SmartAPI or BlueInvoice seamlessly.