

Perceptive Intelligent Capture

Technical Specifications

Version: 5.6.x

Written by: Capture Product Management
September 2016

perceptivesoftware
from Lexmark

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About the Intelligent Capture technical specifications

This document provides the technical specifications for the Intelligent Capture products produced by Lexmark Enterprise Software. The technical specifications in this document are specific to a product release. We publish a new technical specification for each major release, for example, Intelligent Capture version 5.x. For the most accurate information, refer to the technical specifications document that matches your version of the product.

The product highlighted in this specification document has unique requirements. It is important to understand what the product is and how it relates, or does not relate, to the other products.

Intelligent Capture performs the optical character recognition (OCR), classification, extraction, verification and exporting of data extracted from documents. This product outputs reporting data, used by the Visibility product. Intelligent Capture is a 32-bit application.

Intelligent Capture requires a minimum amount of memory and disk space. You must meet these requirements to support your implementation. These requirements specifically list the needs of the product and do not include any amount of memory or disk space you require for the operating system, environment, or other software that runs on the same machine.

Some of these technical specifications also provide minimum recommendations, which are based on historical customer implementation/performance data. For maximum performance, review your specific environment, network, and platform capabilities and analyze your planned business usage of the system. Your specific system may require additional resources above these recommendations.

This Technical Specification lists third-party product and platform versions to which the respective vendors provide general support at the time of our release. If the support lifecycle for a third-party product or platform version ends during the life of the Lexmark product that supported it, you must either update to a supported version or subscribe to extended support from that vendor. Taking this step ensures that your support from Lexmark is sufficient across all products.

Note: As part of the sales process, Lexmark provides detailed hardware requirements that are specific to your configuration needs, based on volumes, desired throughput, number of users, existing infrastructure, and so on.

Assumptions for Intelligent Capture

The following assumptions are made for purposes of providing minimum specifications.

- 1-3 page TIFF documents - 300 dpi document resolution
- Average TIFF size of approximately 80 KB
- Project size of less than 5 MB and less than 10 document classes
- Exported batches are cleaned up after 3 days
- Daily processing of volume requirements are within a standard (8 to 10 hour) business work day
- Processing volume is steady month-to-month (processing “peaks” were not considered)
- Servers do not have any other non-related resource intensive applications running

Intelligent Capture – network port usage

Intelligent Capture uses specific network ports as part of the default implementation. If needed, you can modify port assignments. The following table lists the Internet Assigned Number Authority (IANA) for networking protocols. It is possible that your networking group will have changed ports for LDAP, SMTP, POP3, or for database traffic to meet your organization's security requirements.

Important: For integrations with customer ERP solutions, consult with Professional Services for information on the ports that Intelligent Captures requires and uses.

Port	Usage
110	RTS - Incoming email (POP3)
50607	RTS - Instances
3000	ABBYY FineReader 10 Network License Manager
3011	ABBYY FineReader 11 Network License Manager
1433	Microsoft SQL Database
1521	Oracle Database

Intelligent Capture – Servers

Intelligent Capture Server

Intelligent Capture Server is the primary server that powers the Intelligent Capture process (Licensing Control, OCR, Classification, Extraction, and so on). The following table lists the minimum technical specifications required for Intelligent Capture Server, as well as recommendations.

Specification	Description, Recommendations and Supported Platforms/Versions								
Hardware	<p>A server-class system is required to run Intelligent Capture in an enterprise environment. The process power of this server directly impacts performance. Minimum hardware recommendations vary based on the number of documents to be processed daily.</p> <table border="1"> <thead> <tr> <th>Volume Level</th> <th>Minimum Recommendation</th> </tr> </thead> <tbody> <tr> <td>Low Volume (500 pages per day)</td> <td>Server Class CPU - minimum 2 cores 4+ GB RAM (2 GB per core) 20-40+ GB hard disk</td> </tr> <tr> <td>Medium Volume (5,000 pages per day)</td> <td>Server Class CPU - minimum 4 cores 8+ GB RAM (2 GB per core) 100-200+ GB hard disk</td> </tr> <tr> <td>High Volume (10,000 pages per day)</td> <td>Server Class CPU - minimum 8 cores 16+ GB RAM (2 GB per core) 200+ GB hard disk</td> </tr> </tbody> </table> <p>Note: For optimal performance, we recommend 3.0+ Ghz processors. Slower processor speeds will work, but performance and throughput could be reduced.</p>	Volume Level	Minimum Recommendation	Low Volume (500 pages per day)	Server Class CPU - minimum 2 cores 4+ GB RAM (2 GB per core) 20-40+ GB hard disk	Medium Volume (5,000 pages per day)	Server Class CPU - minimum 4 cores 8+ GB RAM (2 GB per core) 100-200+ GB hard disk	High Volume (10,000 pages per day)	Server Class CPU - minimum 8 cores 16+ GB RAM (2 GB per core) 200+ GB hard disk
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Operating System	Supported Platforms/Versions								
Microsoft Windows Server	Windows Server 2012 R2 Windows Server 2008 R2								
Other	.NET Framework 3.5 SP1								
Accessibility	<p>100 Mb/s network minimum, configured at full duplex (or Auto Negotiate), is required for Intelligent Capture Server and the database server. If possible, a 1 Gb/s network provides optimal performance.</p>								

Specification	Description, Recommendations and Supported Platforms/Versions
Memory	Memory recommendations are based on volumes described in the Hardware section. In addition, include any memory requirements recommended by your operating system manufacturer.
Disk Space	Hard disk recommendations are based on volumes described in the Hardware section. If daily page volumes exceed 10000, consult with sales engineering for appropriate recommendations. In addition, we recommended that Hot Swappable hard drives and the use of RAID Controllers be part of your hard disk implementation strategy.
Virtual Machine	Lexmark Enterprise Software supports customers who run Intelligent Capture products on the operating systems listed in this document, regardless of whether the system is running in a proven virtual environment, such as VMWare or Microsoft Hyper-V. Unless otherwise noted in this document, we support specific operating systems, web server configurations, and web browsers – not hardware configurations. Accordingly, virtual platforms operate on and interact with the hardware abstraction layer provided by the virtual platform vendor. The virtual platform vendor supports a set of certified operating systems and hardware. The customer and virtual platform manufacturer are responsible for any interactions or issues that arise at the hardware or operating system layer because of the virtual platform vendor. Important: In virtual environments, Intelligent Capture supports virtualization but does not support paravirtualization.

Intelligent Capture Database Server

The Intelligent Capture database stores the data and documents being processed. The use of Network Attached Storage (NAS) devices is not recommended. The following table lists the minimum technical specifications required for Intelligent Capture Database Server, as well as recommendations.

Specification	Description, Recommendations and Supported Platforms/Versions
Hardware	<p>Intelligent Capture only supports the use of Microsoft SQL Server or Oracle databases. Hardware requirements specified by respective DBMS vendors are required in addition to following Intelligent Capture-specific requirements. We also recommend installing the database on a separate server.</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>Minimum Recommendation</p> <p>Server Class - minimum 4 cores</p> <p>8+ GB RAM</p> <p>100+ GB hard disk</p> <p>Note: For optimal performance, we recommend 3.0+ Ghz processors. Slower processor speeds will work, but performance and throughput could be reduced.</p> </div>

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Intelligent Capture Web Verifier Server

Intelligent Capture Web Verifier Server is required for implementations where the Web Verifier client is used. The following table lists the minimum technical specifications required for Intelligent Capture Web Verifier Server, as well as recommendations.

Specification	Description, Recommendations and Supported Platforms/Versions								
Hardware	<p>We recommend installing Intelligent Capture Web Verifier Server on a dedicated server. Minimum hardware recommendations vary based on the number of (concurrent) supported users.</p> <table border="1"> <thead> <tr> <th>Number of Users</th> <th>Minimum Recommendations</th> </tr> </thead> <tbody> <tr> <td>2-4 users</td> <td> Server Class - minimum 4 cores 4+ GB RAM 50+ GB Hard Disk 30+ GB OS Hard Disk Space Note: For optimal performance, we recommend 3.0+ Ghz processors. Slower processor speeds will work, but performance and throughput could be reduced. </td> </tr> <tr> <td>Add-ons <i>per user</i></td> <td> Memory: Add 500 MB RAM for each additional concurrent user Cores: Add 1 additional core for each two additional concurrent users </td> </tr> </tbody> </table>	Number of Users	Minimum Recommendations	2-4 users	Server Class - minimum 4 cores 4+ GB RAM 50+ GB Hard Disk 30+ GB OS Hard Disk Space Note: For optimal performance, we recommend 3.0+ Ghz processors. Slower processor speeds will work, but performance and throughput could be reduced.	Add-ons <i>per user</i>	Memory: Add 500 MB RAM for each additional concurrent user Cores: Add 1 additional core for each two additional concurrent users		
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Intelligent Capture – Clients

There are several clients, each of which is associated with a corresponding server application for Intelligent Capture. The following sections provide the technical specifications associated with each client application.

Intelligent Capture Designer Client

Intelligent Capture Designer Client creates and maintains Intelligent Capture projects and applications. The Designer Client does not require a separate desktop system and is typically installed on Intelligent Capture Server. The following table lists the minimum technical specifications required for this client.

Specification	Recommendations and Supported Platforms/Versions
Hardware	Processor: 1 Core - 2.4 GHz or greater processor. Screen Resolution: The required minimum screen resolution is 1024 x 768; however, 1280 x 1024 SVGA is recommended.
Operating Systems	Supported Versions: Microsoft Windows 7
Other	.NET Framework 3.5 SP1
Accessibility	A 10 Mb/s connection is required. For optimal performance, use a 100 Mb/s connection.
Memory	1 GB of available RAM is required in addition to the recommended RAM for the operating system.
Disk Space	40+ GB available hard disk space is required.
Note(s)	Oracle DB Implementations - When using Oracle for the Intelligent Capture DBMS, a 32-bit Oracle client must be installed on every desktop where the Designer Client is installed.

Intelligent Capture Verifier Client

Intelligent Capture Verifier Client is a thick client that interacts with extracted data as a part of the verification process. The Verifier Client provides data verification, advanced verifier operations, and Learnset management. This client does not require a separate workstation if normal Verifier operations are delivered through the web-based client. The following table lists the minimum technical specifications required for this client.

Specification	Recommendations and Supported Platforms/Versions
Hardware	Processor: 1 Core - 2.4 GHz or greater processor. Screen Resolution: The required minimum screen resolution is 1024 x 768; however, 1280 x 1024 SVGA is recommended.
Desktop Operating Systems	Supported Versions: Microsoft Windows 7

Specification	Recommendations and Supported Platforms/Versions
Other	.NET Framework 3.5 SP1
Accessibility	A 10 Mb/s connection is required. For optimal performance, use a 100 Mb/s connection.
Memory	1 GB of available RAM is required in addition to the recommended RAM for the operating system.
Disk Space	40+ GB available hard disk space is required.
Note(s)	Oracle DB Implementations - When using Oracle for the Intelligent Capture DBMS, a 32-bit Oracle client must be installed on every desktop where the Verifier Client is installed.

Intelligent Capture Web Verifier Client

Intelligent Capture Web Verifier Client is a web-based client that interacts with extracted data as a part of the verification process. The use of this client is optional. The minimum technical specifications required for this client appear in the following table.

Specification	Recommendations
Hardware	Processor: 1 Core - 2.4 GHz or greater processor. Screen Resolution: The required minimum screen resolution is 1024 x 768; however, 1280 x 1024 SVGA is recommended.
Operating Systems	Supported Versions: Microsoft Windows 7 (32-bit or 64-bit)
Web Browser(s)	Recommended: Internet Explorer, version 11.0 Supported: Internet Explorer 9 Internet Explorer 8
Accessibility	A 10 Mb/s connection is required. For optimal performance, use a 100 Mb/s connection.
Memory	1 GB of available RAM is required in addition to the recommended RAM for the operating system.
Disk Space	40 GB available hard disk space is required.

Intelligent Capture Verifier Client using Citrix or Terminal Services

Our core applications are **not** designed to work with any specific desktop presentation platform. Third party products like Citrix and Microsoft Terminal Services can be used, however, the customer is responsible for providing, configuring, and supporting the environment.

Intelligent Capture RTS Remote Admin Client

Intelligent Capture Remote Admin Client is a thick client that manages the RTS (Runtime Server) instances. This client does not require a separate workstation. It is typically installed on an Intelligent Capture Server system or any network-accessible system where the Microsoft Management Console is available for the Intelligent Capture RTS Remote Admin Snap-in. The following table lists the minimum technical specifications required for this client.

Specification	Recommendations and Supported Platforms/Versions
Hardware	Processor: 1 Core - 2.4 GHz or greater processor. Screen Resolution: The required minimum screen resolution is 1024 x 768; however, 1280 x 1024 SVGA is recommended.
Desktop Operating Systems	Microsoft Windows 7
Accessibility	A 10 Mb/s connection is required. For optimal performance, use a 100 Mb/s connection.
Memory	1 GB of RAM is required in addition to the recommended RAM for the operating system.
Disk Space	40+ GB available hard disk space is required.

Development and test environments for Intelligent Capture

Virtually every customer requires a development environment, test environment, or both, in addition to the production server environment. A typical development or test environment consists of a single server capable of processing 500 pages per day. The technical specifications in the following table should be sufficient to house Intelligent Capture Server, Web Verifier Server, and Intelligent Capture Database Server.

Specification	Description, Recommendations and Supported Platforms/Versions								
Hardware	<p>Use the following specifications if you install Intelligent Capture in a Tese Environment.</p> <table border="1"> <thead> <tr> <th colspan="2">Minimum Recommendation</th> </tr> </thead> <tbody> <tr> <td>Server Class</td> <td>- minimum 4 cores</td> </tr> <tr> <td>RAM</td> <td>8+ GB</td> </tr> <tr> <td>Hard Disk</td> <td>100+ GB</td> </tr> </tbody> </table>	Minimum Recommendation		Server Class	- minimum 4 cores	RAM	8+ GB	Hard Disk	100+ GB
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Appendix A: Additional platform support information

This appendix provides details on supported versions, languages, integrations, and so on, not referenced in the above technical specifications.

Email servers

The email service provided within Intelligent Capture is compatible with the following email server.

Note: This capability is currently in maintenance mode only. All requirements for email importing are better satisfied with the Perceptive Core or Content platform with the Mail Agent. Future platform support requirements are being reviewed for possible support with this feature.

Specification	Supported Platforms/Versions
Email server	Microsoft Exchange/Outlook 2010 Microsoft Exchange/Outlook 2007

ABBYY FineReader – compatibility

Intelligent Capture is compatible with the following versions of ABBYY FineReader.

Specification	Supported Platforms/Versions
ABBYY FineReader versions	ABBYY FineReader 11 ABBYY FineReader 10

ABBYY FineReader – OCR language support

The following table lists the languages that are supported by our OCR engines with this release. In all cases, ABBYY FineReader 11 is required. For a list of languages supported for FineReader 10, contact Sales Engineering.

OCR Language Support			
Abkhaz	Crimean Tatar	Hausa	Latvian
Adyghe	Croatian	Hawaiian	Lezgi
Afrikaans	Crow	Hebrew	Lithuanian
Agul	Czech	Hungarian	Luba
Albanian	Dakota	Icelandic	Macedonian
Altaic	Danish	Ido	Malagasy
Arabic (Saudi Arabia)	Dargwa	Indonesian	Malay
Armenian Eastern	Dungan	Ingush	Malinke
Armenian Grabar	Dutch Netherlands	Interlingua	Maltese
Armenian Western	Dutch Belgian	Irish	Mansi
Awar	English	Italian	Maori
Aymara	Eskimo Cyrillic	Japanese	Mari
Azerbaijani Cyrillic	Eskimo Latin	Kabardian	Maya
Azerbaijani Latin	Estonian	Kalmyk	Miao
Bashkir	Even	Karachay Balkar	Minankabau
Basque	Evenki	Karakalpak	Mohawk
Belarusian	Faeroese	Kasub	Moldavian
Bemba	Fijian	Kawa	Mongol
Blackfoot	Finnish	Kazakh	Mordvin
Breton	French	Khakass	Nahuatl
Bugotu	Frisian	Khanty	Nenets
Bulgarian	Friulian	Kikuyu	Nivkh
Buryat	Gagauz	Kirghiz	Nogay
Catalan	Galician	Kongo	Norwegian Bokmal
Chamorro	Ganda	Korean (Hangul)	Norwegian Nynorsk
Chechen	German	Koryak	Nyanja
Chinese Simplified	German New Spelling	Kpelle	Occitan
Chinese Traditional	German Luxembourg	Kumyk	Ojibway
Chukchee	Greek	Kurdish	Ossetian
Chuvash	Guarani	Lak	Papiamento
Corsican	Hani	Latin	Pidgin English

OCR Language Support			
Polish	Spanish	Swedish	Tuvinian
Portuguese Brazilian	Sunda	Tabasaran	Udmurt
Portuguese	Swahili	Tagalog	Uighur Cyrillic
Provençal	Swazi	Tahitian	Uighur Latin
Quechua	Selkup	Tajik	Ukrainian
Rhaeto Romanic	Serbian Cyrillic	Tatar	Uzbek Cyrillic
Romanian	Serbian Latin	Thai	Uzbek Latin
Romany	Shona	Tok Pisin	Vietnamese
Rundi	Sioux	Tongan	Welsh
Russian Old Spelling	Slovak	Tswana	Wolof
Russian	Slovenian	Tun	Xhosa
Rwanda	Somali	Turkish	Yakut
Sami (Lippish)	Sorbian	Turkmen Cyrillic	Zapotec
Samoan	Sotho	Turkmen Latin	Zulu

Language localization

The following table lists the languages that are supported for user interface localization for each application. This does **not** pertain to the Verifier form itself. Custom services are required to support localization of the verifier form in other languages.

Language	Designer	Desktop Verifier	Web Verifier
Chinese (Simplified)			Yes
Chinese (Traditional)			Yes
Danish			Yes
Dutch (Dansk)			Yes
English	Yes	Yes	Yes
Finnish (Suomi)			Yes
French			Yes
German (Deutsch)	Yes	Yes	Yes
Italian			Yes
Japanese			Yes
Korean			Yes
Norwegian			Yes
Polish			Yes
Portuguese (Brazilian)			Yes
Romanian			Yes
Russian			Yes
Spanish			Yes
Swedish			Yes
Turkish			Yes

Intelligent Capture for Invoices – language support

The following table lists the languages that are supported for each release of Intelligent Capture for Invoices. In each case, ABBYY FineReader version 10 or 11 is required.

Language	1006*	1007*	2.X
Bulgarian	Yes	Yes	2.1+
Chinese (Simplified)		1007D+	2.1+
Czech	Yes	Yes	2.1+
Danish	Yes	Yes	2.1+
Dutch	Yes	Yes	2.1+
English	Yes	Yes	2.1+
Estonian	Yes	Yes	2.1+
Finnish	Yes	Yes	2.1+
French	Yes	Yes	2.1+
German	Yes	Yes	2.1+
Greek	Yes	Yes	2.1+
Hungarian	Yes	Yes	2.1+
Italian	Yes	Yes	2.1+
Japanese		1007D+	2.1+
Korean		1007E+	2.2+
Latvian	Yes	Yes	2.1+
Lithuanian	Yes	Yes	2.1+
Norwegian	Yes	Yes	2.1+
Polish	Yes	Yes	2.1+
Portuguese	Yes	Yes	2.1+
Portuguese (Brazilian)	Yes	Yes	2.1+
Romanian	Yes	Yes	2.1+

Language	1006*	1007*	2.X
Russian	Yes	Yes	2.1+
Slovak	Yes	Yes	2.1+
Slovenian	Yes	Yes	2.1+
Spanish	Yes	Yes	2.1+
Swedish	Yes	Yes	2.1+
Thai		1007F+	2.3+
Turkish	Yes	Yes	2.1+

Intelligent Capture for Invoices – compatibility

The following table lists the releases of Intelligent Capture that are compatible with Intelligent Capture for Invoices (previously known as DFI) releases.

Capture for Invoices Release	5.5	5.5 SP1	5.5 SP2	5.5 SP3	5.6
1006D	Yes	Yes	Yes	Yes	
1007B	Yes	Yes	Yes	Yes	
1007C & CA	Yes	Yes	Yes	Yes	
1007D			Yes	Yes	
1007E				Yes	Yes
1007F				Yes	Yes
1007G				Yes	Yes
2.1		Yes	Yes	Yes	
2.2			Yes	Yes	
2.3				Yes	Yes
2.4				Yes	Yes**

** Version 2.4 does not support Windows 2012 – Version 2.5 (Q2 2015) will provide 2012 support.

Appendix B: Considerations for Intelligent Capture

Intelligent Capture is a Microsoft Windows-based, distributed, two-tier application typically deployed on one or more Windows Server operating systems.

Configuration of the core hardware and software depends on the specific project requirements and business rules as defined in the Statement of Work (SOW). This information, gathered during the requirements analysis phase of the project, serves as a guideline to aid the project team members who are responsible for sizing the hardware and software required for the implementation.

The following table lists some factors to consider when sizing the hardware for a production environment.

Consideration	Notes
Input volume	The number of documents/pages processed on a daily basis
Completion time	The required amount of time from when the document is scanned into the system to when it is exported out of Intelligent Capture
Complexity of input documents	For example, single or multi-page TIFFs, scan resolution, document size, and number of pages for which you have used OCR per document
Output requirements	For example, data extraction, validation, export, and number of documents processed per day
Complexity of workflow customization	
Third-party software integration requirements	For example, Oracle, Microsoft Dynamics, Lawson, SAP, or an ECM system
Backup strategy	
Disaster recovery	For example, backup, fault tolerance, and up time
Network operating system platform and network environment	
Anticipated room for growth	For example, increases in input/output and other system requirements
Number of concurrent Verifier users	Both Web Verifier and Thick Client Verifier
Batch Retention Time	The time for a batch of documents to remain in the system after export
Number of Intelligent Capture projects	Per country, per solution, and so on
Components Installed	Lexmark recommends that you install separate components such as the Workflow Module, Visibility, or databases on separate servers for production processing.

Appendix C: Intelligent Capture and Perceptive Core

Whenever you want to leverage Perceptive Content functionality, such as workflow, and you already have a current ECM/DMS solution or other document repository, Perceptive Core is required. This product includes the basic framework to support the following features.

- Email importing
- Fax importing
- Scanning and importing features available in CaptureNow
- Workflow, with or without eForms
- Any of the Interact Products, such as Microsoft Office and MFPs

This product cannot be used as a document repository. Documents contained within Perceptive Content are transient only and are automatically removed after a preset amount of time, for example, 60 days or as set during implementation.

For more information on the technical requirements for Perceptive Core components, such as the ImageNow Server specifications, refer to the *ImageNow Technical Specifications*.