

Transform all paper and electronic documents into business-ready data. Supporting organisations in their goal to automate and reduce the time and expense of manual efforts, Cognitive Machine Reading (CMR) Plus accelerates time to value and faster ROI.

CMR Plus combines the power of AI technologies such as Machine Learning (ML), Natural Language Processing (NLP) and Deep Learning to automatically pre-process, classify, extract, and validate all types of data formats – structured, semi-structured and unstructured.

Benefits

- **Achieve faster time-to-value** with **lower processing cost** and **increased employee productivity** by eliminating labour-intensive manual key entry
- **Accelerate learning** by digitising documents at the point of entry. CMR Plus can coexist with various enterprise applications for quicker data delivery to drive business value.
- **Gain greater transparency.** View the quality of data extraction in real-time, and if needed, make adjustments on the fly. From IT, audit and business users, you'll know "what's going on under the hood". This transparency allows control of your data to mitigate risk, improve compliance, while meeting SLAs and managing cost containment.
- **Deploy, distribute and manage global processes across remote locations with enterprise scalability.** The web interface is accessible anywhere and easy to maintain
- **Deliver significant IT savings** – requires less data and lower infrastructure cost by leveraging the most efficient self-learning ML technology

Key Features

Enterprise-Ready

- Supports large-scale, implementations available with hundreds of users, and tens of thousands of concurrent sessions
- Manage operations across remote locations through a responsive web user-interface that's accessible anywhere and easy to navigate
- Flexible license model provides numerous scalability options to control governance and cost containment
- Easy configuration of authentication and authorisation with the flexibility to manage users

Smarter Data Digitisation

- Best-in-class for unstructured data
- Process low-quality documents using advanced Machine Vision
- Extract block and cursive handwritten text and critical information from identification documents (ID)
- Built-in confidence metrics and colour codes for all extracted data
- Apply business rules at the point of capture – leverage NLP to contextualise unstructured data and apply inference logic to enrich data set

Self-Learning

- Deep Learning accelerates faster time to value by improving speed to learn data sets – reducing time to production
- Gain complete control over your training data. View the quality of data extraction in real-time and make adjustments on the fly – all done through the user interface without touching a single code
- Significantly reduce time to market by configuring just 1 document, or hundreds of documents. The platform identifies required data and automatically adds it to its knowledge base

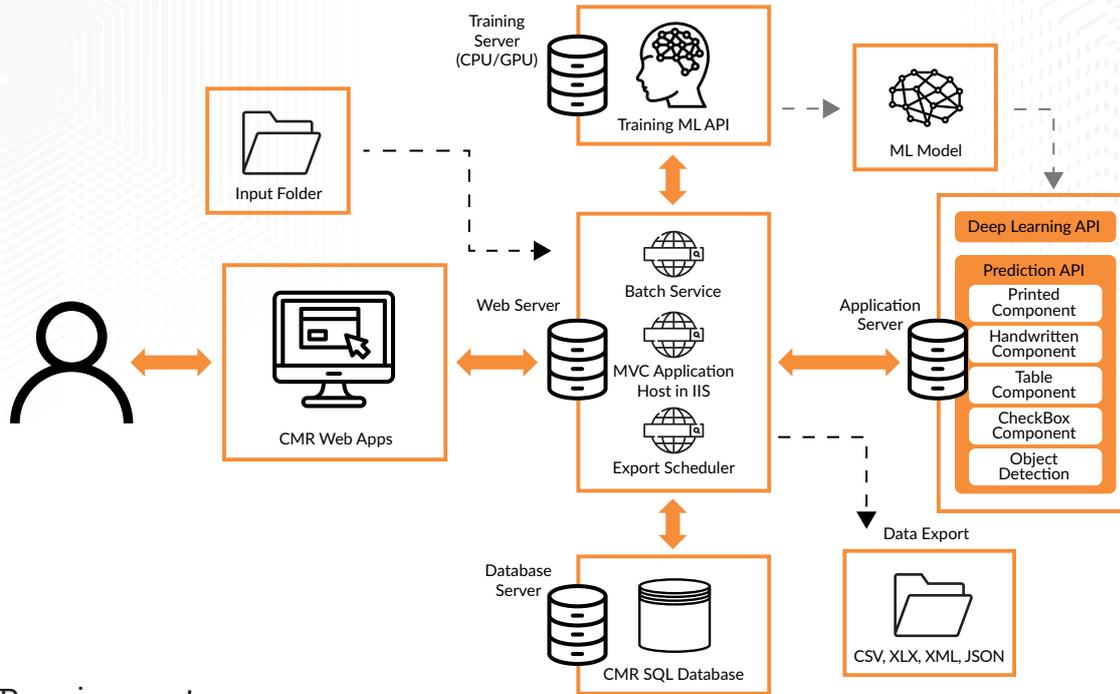
Intelligent Classification

- Leverage ML to automatically classify and group similar documents
- Process complex tables, including multi-lines, dual tables and more
- Identify and separate pages from multi-page documents

End-to-End Process Automation

- Seamless integration with QueenBOT RPA platform for complete automation of complex workflows
- REST API enables seamless integration into any system including ERP, BPM, CRM and other enterprise workflow solutions

CMR Plus System Architecture



Hardware Requirements

Machine Role	Application Server	Database Server	Web Server	Training Server
Number of servers	According to peak and daily volume of documents to process	2 (primary and secondary)	1 Server per 100 QA's	1 server with 1GPU and 24GB GPU RAM
	HA and DR requirements as per organisation policy	HA and DR requirements as per organisation policy	HA and DR requirements as per organisation policy	1 Server with 1GPU and 24GB GPU RAM
CPU	4 Cores	2 Cores	4 Core	6 Core
GPU	-	-	-	1 GPU
CPU Memory	16GB	8GB	32GB	112GB
GPU Memory	-	-	-	24GB
Disk	100GB	100GB	100GB	300GB

Software Requirements

Machine Role	Application Server	Database Server	Web Server	Training Server
Peripheral Software	.NET Framework 4 and above	SQL Server and Management Studio 2016	IIS	-
OS	Windows Server 2012 R2 or 2016 or higher	Windows Server 2012 R2 or 2016 or higher	Windows Server 2012 R2 or 2016 or higher	Windows Server 2012 R2 or 2016 or higher

Input Formats

- PDF (Digitised and Image PDF), Multi paged TIFF, JPEG, PNG
- Documents can be printed or handwritten block letter or cursive
- Signature identification and verification
- Emails, identity documents, images, stamps, and bar codes

Browser Support

- Internet Explorer 11 and above
- Google Chrome 71 and above

Document Export Formats

- Digitised file formats like XT, CSV, XML,JSON, XLS, HTML

Languages

- Multiple languages that are based on the Latin script including non-English languages

Security

- Native security features, related to both infrastructure and product layers. HIPAA, GDPR, and ISO 27001 certified

Hosting Options

- On-prem, private, public cloud, desktop/laptop