Managing International Customs & Trade Compliance

Software Solutions and Services

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International Customs and Trade Compliance Software Solutions

MIC is the leading global provider of international customs and trade compliance software solutions. Our software is used by more than 800 customers in over 55 countries on six continents.

MIC's strengths and competitive advantages:
- Consistently high customer satisfaction rating for over 35 years
- Highest degree of country coverage within one single harmonious IT platform
- Exclusive focus and expertise on international customs and trade compliance software solutions
- MIC Software is developed by subject matter experts providing the most functional and comprehensive suite of international customs and trade compliance software solutions to the entire world
- MIC brings decades of comprehensive customs IT expertise, software development, and process automation experience that is second to none. Extensive Global Trade Content Service for more than 150 countries integrated into our software solutions and updated automatically in real time
- MIC's 100% focus on developing, delivering, and supporting international customs and trade compliance software solutions allows for shorter implementation times leading to quicker ROI for new MIC customers
- Increased legal certainty due to close contact with authorities
- Software, project management and implementation services as well as ongoing maintenance & support under one umbrella. For MIC, maintenance, support and continuous adaptation to legal changes is not just a contract – it's a responsibility
- Long-term international experience in project management, implementation and integration of software solutions using defined company processes – use of best practice frameworks like Capability Maturity Model Integration® (CMMI)

- 14+ years' experience in Software-as-a-Service (SaaS) solutions
- MIC is privately owned and financially independent, which allows us to be flexible and quick powering us to a considerable competitive advantage in a fast-paced and dynamic era of continuously changing regulatory requirements
- One system, one database, one user interface, one service organization worldwide
  - One Stop Shop for Global Trade Management
  - Direct electronic data exchange with the national authority systems with no need for implementation partners – "We Do the Last Mile"
  - Guaranteed pro-active implementation and timely delivery of legal national requirements as part of MIC's offered maintenance contract
  - Certified Project Management Professionals® (PMP)
  - State-of-the-art technologies (e.g. Java Enterprise architecture and intuitive browser-based user interface) utilizing artificial intelligence and machine learning (AI&ML)

MIC provides a high-quality, user-friendly, web-based suite of software products which can be implemented and deployed in a modular manner. Our software is continuously improved, refined and tailored to meet the needs of many different industries. Enhancements are propelled by business best practices and aligned with the constantly evolving regional and national legal requirements. MIC software solutions drive the efficient management and operation of customs processes while maintaining compliance with legal requirements all fully supported and serviced by our global team providing 24/7 assistance, in accordance with ITIL standards.

With a one-stop-shop for automation and cost savings

Whether it's for a multinational corporation with hundreds of daily foreign trade transactions, a mid-sized enterprise with a high import/export load, or a logistics provider, MIC offers a singular configurable GTM software solution to meet the needs of companies of any size in any industry that requires international customs and trade compliance management. MIC provides organically developed software on a harmonious platform. 1 GTM Source System with 1 Database, 1 Graphical User Interface, and 1 consistent Maintenance & Support Service – Globally.

No implementation partners required! MIC provides a complete range of professional services offering which includes qualified project management (PMI certified, CMMI standards), integration, training, content, and premium support, allowing us to deliver high quality software solutions on time and within scope and budget.

Software as a Service (SaaS)/Cloud
MIC provides its software via its data center infrastructure. Upon request, a MIC partner can take over the daily operational handling (managed services).

Your advantage:
Low investment expenses and "pay per use" cost savings, as well as reduced time to value.

MIC Global Trade Management (GTM) Software

In the rapidly expanding global economy, multinational companies have the opportunity to reduce international customs and trade compliance costs by accelerating the movement of goods to achieve both short-term and long-term competitive advantages. However, the appropriate GTM software must be in place and fully integrated with a company's overall IT infrastructure (e.g. ERP Host System) and its customs and trade compliance business processes in order to increase efficiency, ensure transparency, minimize compliance risk, and save on costs.

MIC specializes in the implementation and integration of GTM software and offers configurable international customs and trade compliance software solutions to legally comply with local, regional and national requirements for many countries and regions around the globe.

MIC GTM software solution benefits:
- Potential time and cost savings for customs clearance, which could not be achieved without the use of globally tested best-practice software solutions
- Increased data quality and compliance with fewer resources
- Increased process automation and minimization of manual data entries and corrections to save on labor costs
- Optimized customs and trade compliance processes speed up the overall supply chain and logistics processes
- Increased innovative capacity through direct contact to WCO (World Customs Organization), EU, national customs authorities and professional organizations throughout the world
- Direct electronic data exchange with national customs authorities' systems where available
- Security of information, data and systems due to ISO/IEC 27001 certification
- Secure worldwide web access for international customs and trade compliance departments as well as third parties (e.g. brokers, service providers, customs authorities)

- Comprehensive application security to ensure that information is properly controlled (e.g. according GDPR, etc.)
- Improved flexibility to quickly adapt to changing business conditions and legal requirements
- Standardized IT interfaces to established ERP systems (e.g. certified MIC SAP Interfaces for SAP S/4HANA (Cloud) 2020/2021 & SAP ERP ECC 6.0 EhP8 (R/3) & SAP S/4HANA 2022, Oracle, etc.) and standard options for any required upstream/downstream third-party legacy or homegrown system
- Global Trade Content Service (GTCS) integration for the many different international customs and trade compliance requirements (e.g. customs tariffs, export control commodity lists, sanctions lists, rules of origin, export control regulations, exchange rates and many more) covering 150+ countries. GTCS is an exclusive core feature of the MIC GTM solution that is automatically updated and monitored regularly
- Data analytics to analyze, control and optimize the GTM processes enabling improved decision making and issue resolution throughout the organization, leading to better designed, more automated and more efficient compliance processes and cost savings opportunities
- The MIC GTM software suite is comprised of modules and sub-modules that can run standalone or in combination to serve each customer's GTM needs. As noted above, all modules can be implemented and deployed in a modular manner

MIC GTM Solution

MIC Data Analytics & Visualization
Collects, translates and transforms data from different sources (e.g. Authority Reports, Broker Declaration Data, MIC-CUST® Import, MIC-CUST® Export, Internal IT-Systems) into readable language according to WCO, EU and country-specific data sets. In context with trade content such as customs tariffs and free trade agreements, these data sets turn into usable information. All this information is prepared in such a way that it can be visualized quickly and easily, either via APIs in in-house solutions or directly in the MIC platform for analysis and interpretation.

MIC Central Classification System
Increased degree of automation for assignment of customs tariff & export control classification to products based on user-validated selection and matching rules, decision trees and suggestion algorithms utilizing artificial intelligence and machine learning (AI/ML). Continuously updated national customs tariffs and export control commodity lists ensure that product classifications are validated against accurate national information.

MIC Customs Filing
Automated electronic export and import customs clearance processes, including special customs regimes and inventory management: Import, export, transit, inward processing relief, bonded warehouse, foreign trade zones, free zones, duty drawback, processing trade, central clearance/SASP, Intrastat, EMCS and others. Directly interfacing with the appropriate governmental system. **"We do the last mile!"**

MIC Origin Calculation System
Automated preferential and non-preferential origin calculation for over 250 free trade agreements worldwide. Management of supplier solicitation process as well as electronic data exchange with suppliers via web portal.

MIC Export Control Management
Central check of business transactions as required by export law, including screening against sanction lists, embargo checks, end user/end use check resp. dual-use reviews, identification of licensing requirements and license management.

MIC CCS
Central Classification System

The most fundamental task in international trade is determining the correct customs tariff and export control classifications for a product. Subsequently, it is critical to consistently apply these classifications once they have been established. Classification can be a difficult undertaking but is an essential part of customs and trade compliance. Without correct classifications, it is not possible to achieve the correct customs duty calculation or preferential treatment determination.

It is common that people in different divisions of a company often make different decisions about customs tariff and export control classifications. This usually causes duplicative effort and inconsistent results for the same product. Furthermore, in an international environment, with multiple national tariffs, commodity lists, languages, complex interpretive notes and preferential duty rates, classification is quite difficult to manage. This leads to inconsistencies which are "red flags" to authorities, resulting in costly fines and penalties. To avoid this, a central and standardized product classification process is required.

MIC's Central Classification System (MIC CCS) offers a cost-effective solution for the determination, assignment and validation of customs tariffs and export control classifications according to particular national customs tariffs and export control commodity lists. Additionally, MIC CCS contains all necessary content in a user-friendly format. Most importantly, the software allows clearly structured control of the entire product classification process, at a global level.

Global product classification

- A global customs and export control item/product master, fully integrated with ERP systems
- Stores, classifies and validates products against national customs tariffs and export control commodity lists
- Fully automated, semi-automated, or manual workflow-based assignment of the customs tariff/export control classification for multiple countries
- Automated customs tariff/export control classification based on company specific product characteristics (user-defined configurable select and matching rules)
- Automated suggestion logic for customs tariff/export control classification based on intelligent matching algorithms using artificial intelligence and machine learning (AI&ML)

- Automated customs tariff/export control classification of recurring articles
- Automatically updated classifications throughout your organization due to cross-classification rules
- Efficient transnational mass re-classification of multiple articles (e.g. for annual changes of customs tariffs)
- Consistent customs tariff/export control classification through application of user-defined decision trees
- Customs tariff/export control classification assignment for a new country based on that of another country (cross-classification)
- Dashboard for quick overview and navigation to open classification requests
- Integration of documents and images of the products (document management) used in the analysis and review of the product

Simplified data management
- User-friendly look-up of customs tariffs, export control commodity lists, as well as duty, tax and trade measures by means of a search assistant
- Easy transfer of part data to be classified via interfaces with ERP systems and third-party service providers
- Complete audit trail as well as customs tariff/export control classification history for each item
- Full audit trail in case of revision
- Global workflow management of classification tasks, performed from one or many locations
- Data analytics for analysis and optimization of the quality in the customs tariff and export control classification processes

Optimized communication interfaces
- Site-specific web access to global customs tariff/export control classification database (Internet, intranet)
- Regularly updated trade content by MIC's Global Trade Content Service (GTCS) for more than 150 countries via fully automated interfaces to selected national and international content partners (e.g. national authorities, Mendel Verlag, PST.AG, etc.)
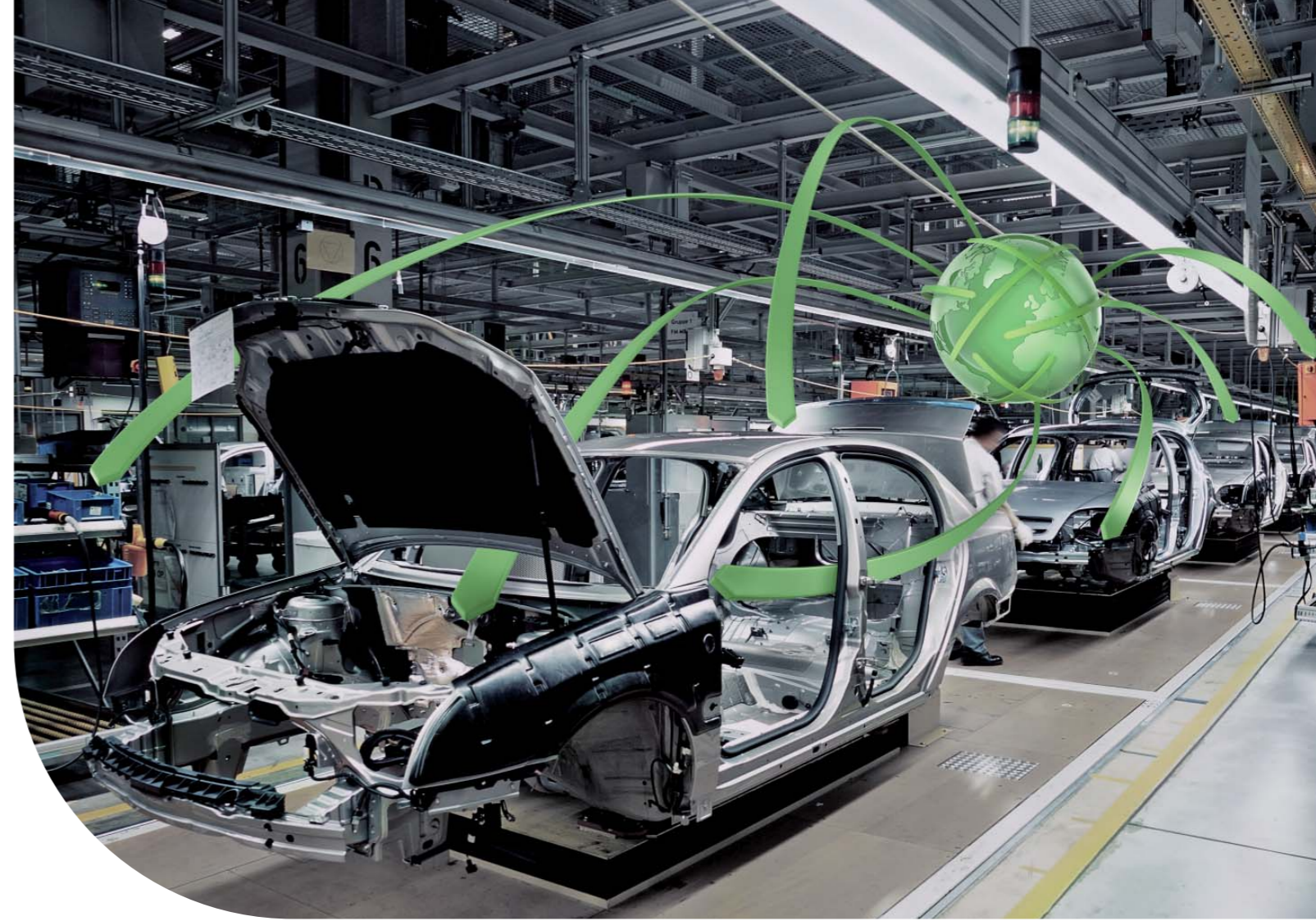
MIC OCS
Origin Calculation System

There are more than 500 notified free trade agreements (FTAs) around the world to enhance trade among the participants and offer potential duty savings to companies yielding a competitive advantage. However, companies can only leverage such potential savings and competitive advantages by complying with a number of complex rules of origin and maintaining detailed documentation. FTAs should be used as a strategic management tool. This requires companies to establish processes for the calculation of the origin of goods which conform to applicable laws and auditing requirements in order to avoid possible fines and future unplanned costs.

This is where MIC's Origin Calculation System (MIC OCS) supports you! It provides the necessary tools to manage the entire process for a multitude of FTAs worldwide. Starting with automated solicitation of supplier declarations using an innovative supplier web portal followed by an optimized calculation of the origin of goods based on multi-level bills of materials, resulting in the creation of the appropriate certificate of origin documentation. Each process step is traceable via a complete audit trail. Changes in the originating status of the goods are reliably detected, affected goods are recalculated, and thus compliance is maintained, all on an ongoing basis.

MIC OCS helps to ensure that you enjoy the benefits offered by FTAs in order to keep and improve your competitive position.

Optimized origin calculation

Efficient management of supplier declarations
- Long-term and purchase order-based supplier declarations
- Easy assignment and maintenance of suppliers as well as workflow-based allocation of suppliers to selected team members
- Global standardization of the supplier declaration management process
- Automatic collection of key information for supplier declarations through ERP/host system(s) integration
- Manual and/or automated requests for supplier declarations – via web, e-mail or paper
- Web portal for direct data entry and/or file uploads by the supplier, including the option for the supplier to expire or modify specific part origin information and to enter additional key information (e.g. commercial country of origin, tariff number, non-originating value, export control classification)
- Flexible options to sign supplier declarations in accordance with the FTA's requirements (electronic signature, sign by mouse, traditional physical signature)
- Automated, intelligent follow-up process that includes a multi-stage reminder mechanism

- Creation of supplier requests based on the usage in bill of materials

Compliant eligibility for free trade agreements
- User accessible configuration of the specific rules of origin for individual FTAs
- Automatic application of the tolerance ("de minimis") for tariff shift rules
- Option for use of accumulation rules, as allowed by the individual agreements
- Multitude of FTAs (USMCA+LVC, EU, Asia-Pacific region, South America, etc.) already in productive use for the origin calculation process
- Support of the American Automobile Labelling Act (AALA)
- Combining FTAs in the form of a cumulation FTA (e.g. for regional convention on Pan-Euro-Mediterranean rules of origin) allowing one calculation to cover multiple agreements
- Flexible and customizable adjustment of rules of origin (e.g. increase of the percentage of the regional value rule for risk reduction)

Optimized calculation
- Top-down, bottom-up and accumulation (advantage calculation)
- Determination of the preferential origin of goods as well as the origin under commercial law (for individual products or product ranges)
- High performance calculation of the origin of goods for both flat and multi-level bill of materials
- Configurable defaults and tolerance thresholds are available
- Calculation of the threshold value (minimum sales price)
- Worst case determination at min/max price logic for multi-sourced components
- Cross-plant and cross-system calculation for the origin of goods

Automated issuance of supplier declarations for customers
- Automatic re-calculation in the event of changes to supplier declarations, including reissuing documents when a change to originating status occurs
- Transaction-based calculation for configurable bills of materials
- Consideration of different validity periods for documents under different agreements

Detailed documentation
- Detailed report for each origin calculation (with ability to calculate for previous dates)
- Ability to analyze non-certified products
- Complete archive for audit purposes
- Data & predictive analytics to identify cost saving opportunities
- Manufacturing site and sourcing simulations to support cost optimization and competitive advantage

Reduction of manual data collection and process redundancy
- Direct transfer of multi-level bills of materials from ERP systems, as well as from engineering or production systems
- Upload of supplier information, part data and prices directly from purchasing, ERP and/or warehouse management systems (e.g. SAP S/4HANA)
- Integration with other MIC modules for full process functionality
- Return interfaces of the calculation results to ERP systems for subsequent processes (e.g. invoice printing)
- Preference transfer solution for intra-company shipments

MIC ECM
Export Control Management Modules

Export control compliance is a challenging task for exporting companies. Global supply chains are constantly at risk because companies must adhere to numerous regulations which are quite complex and change frequently. This includes export control classification, checking sanctions lists and embargos, determining licensing requirements (including license management), as well as checks of end use and/or end users. Therefore, commitment to export control compliance and effective risk management requires the use of appropriate software tools.

MIC's Export Control Management (MIC ECM) allows for central management of all company transactions under export control law and detailed checks of business transactions with respect to the relevant regulations. Clear status information and comprehensive check reports for each transaction ensure a complete and consistent audit trail. This includes screening of the persons and organizations involved in a given transaction against different sanctions lists, checking of the goods in consideration of dispatch and destination country, and documentation of end use and end users.

MIC Export Control Management Modules

Denied party screening: MIC DPS
- Screening against sanctions lists based on a configurable screening algorithm and configurable screening profiles
- Supports interactive, transaction oriented real-time screening as well as batch screening
- Automation by "white lists" and "positive lists"
- Daily updated content by integration of MIC's Global Trade Content Service (GTCS) for EU, US, UN, JP, UK, CH and many other sanction lists
- Screening against internal "blacklists" and keywords
- Ultimate Beneficial Owner (UBO) screening for more than 200 million companies worldwide with automated interfaces to the Orbis database of Bureau van Dijk (BvD) as well as Dun & Bradstreet's (D&B) Bisnode database

- Integration with MIC-CUST® and/or ERP systems (e.g. SAP) for automatic blocking of the consignment in the event of a positive screening result
- Definition of stop words to be ignored for screening, e.g. GMBH, LTD, LIMITED, etc.
- Comprehensive audit trail of screening results and decisions including individual documentation (file attachments and comments)
- Overview and full transparency across the entire process (workflow & escalation management)

Export control classification: MIC CCS ECC
- Identification of controlled products
- Manage an unlimited number of export control classifications for each product. (e.g. ECCN, German Export List number, relevance for embargo)
- Workflow management for export control classification tasks
- Automated and/or semi-automated allocation of export control classifications based on intelligent suggestion logic using artificial intelligence and machine learning (AI&ML), as well as user-defined selection and matching rules
- Up-to-date export control commodity list content including correlation tables by integration with MIC's Global Trade Content Service (GTCS) for multiple countries (e.g. US CCL, EU Dual-Use Regulation, German Export List)
- Support for correlation tables
- Complete audit trail in case of changes

Export control: MIC ECM
- Central administration of all information relevant for export controls
- Supports both interactive and transaction-oriented real-time screening of transactions
- Configurable transaction types (e.g. export, customer visit, data transmission)
- Embargo check (total embargos and screening based on tariff number, export control classification, country of dispatch and destination, business partners)

- Check of end user and end use including configurable red flag questionnaires
- Assessment of licensing requirements
- Assessment of import control regulations
- ELAN-K2 integration for request of licenses
- Use of general licenses
- Administration & monitoring of individual licenses (deadlines, obligations, approved quantities/values, documentation of use, deduction by quantity/value, etc.)
- Configuration of rules for application of licenses
- US re-export checks
- De-minimis calculation
- Manual compliance checks
- Overview and full transparency of the entire process (workflow & escalation management)
- Interface integration with different ERP systems (e.g. SAP) including blocking of suspicious transactions directly in ERP systems
- Integration with other MIC modules (MIC DPS, MIC CCS ECC, MIC-CUST® Import and Export)
- Up-to-date export control content through integration of MIC's Global Trade Content Service (GTCS) for multiple countries (e.g. country lists, reasons for control, embargo regulations)
- Support for correlation tables
- Standard reporting as well as data analytics

MIC-CUST®
Customs Filing

Unique in the world: MIC-CUST® offers a consistent international customs & trade compliance software solution for customs filing on one single technical platform – for more than 55 countries. This gives companies the power of automatic electronic import and export clearance processes, including special customs regimes and inventory management. It also provides the ability to generate the import customs declaration in one country from export data of another country. A special advantage for inter-company shipments!

Optimized global customs management

If required, MIC-CUST® allows for easy electronic transfer of data to third parties (e.g. brokers, forwarders). Configurable return interfaces to MIC-CUST® are provided for the customs declarations made by third parties to ensure transparency, control and proactive broker management. This not only reduces errors and increases compliance through higher data quality but will also reduce the effort and costs needed from these third parties. A preferred option is simply to give these third parties direct access to the MIC system and eliminate the need for integration altogether.

MIC-CUST® offers the largest coverage in the GTM market regarding direct electronic connectivity with national customs authority systems in countries where it is available. This results in elevated efficiency, transparency, legal certainty and eliminates the need to invest in country-specific IT solutions — saving you time and money.

One customs solution for more than 55 countries
- A single system certified for import and export customs declarations in many countries such as ACE in the USA, SAAI and VUCEM in Mexico, CSA in Canada, e-Port in China via China Single Window, DELTA in France, ATLAS in Germany, PLDA in Belgium, AGS as well as DMS in the Netherlands, e-zoll in Austria, e-dec in Switzerland, CHIEF/CDS in the UK, ELEX in Finland, TDS/TESS in Sweden, PUESC in Poland, AEAT in Spain, AIDA in Italy, ICEGATE in India, and many more
- Long-term practical experience in operating EU's Single Authorization for Simplified Procedures (SASP) acting as forerunner for the EU's planned Centralized Clearance system
- Use of export data for corresponding import customs declarations (MIC GTDC)
- Archiving of all customs declaration data and transactions to provide historic data and a change history over time
- Monitoring of the import and export clearance processes, including the supervision of guarantees within the EU
- Automatic adjustment of the software to legal changes as part of the maintenance agreement
- Saving customs duties through the use of special customs regimes such as inward processing relief, bonded warehouse, AFD, IMMEX, free zone, foreign trade zone, duty drawback, processing trade and many more
- Continuous documentation of customs processes (audit trail)
- Integration with MIC's Global Trade Content Service (GTCS) for 150+ countries

Direct electronic customs filing
- Direct data exchange with electronic filing systems of national customs authorities (direct filing)
- Logbook & traffic light status for data exchange with customs authorities and brokers
- Simplified communication of customs data between ERP systems, service providers and customs administrations
- Fully integrated and certified preparation of the country-specific electronic filing formats (EDI/XML converter) rendering the use of country-specific software solutions obsolete. Thus, MIC-CUST® offers you the largest coverage available in the GTM market with respect to countries and supported customs regimes, with no need to invest in multiple national IT systems or manage multiple contract partners

Electronic data exchange with brokers
- Direct data exchange with brokers via configurable broker interfaces leading to increased data quality and compliance
- Reduction of manual workload on the broker's side, resulting in reduced broker fees
- Full control over customs filings made by service providers (broker management)
- As noted above, a preferred option is simply to give brokers direct access to the MIC system and eliminate the need for integration altogether

Easy and trouble-free handling
- One single central repository for all global customs management data
- All information relevant for customs filing can be provided within the organization and to service providers (brokers, forwarders etc.)
- Use of a flexible reporting system for internal purposes (business reporting)
- Data & predictive analytics for the control and optimization of foreign trade transactions

MIC-CUST® customs management software modules

Import & Export: MIC-CUST® Import & Export
- Automated import and export customs declarations for numerous countries
- Check of quotas and licenses
- Calculation of customs value (valuation)
- Automatic calculation of taxes and duties (landed cost calculation)
- Supports EU's SASP (forerunner of EU's Centralized Clearance)

Special customs regimes including inventory management:
- Supports numerous special customs regimes all over the world, e.g.:
  - Bonded warehouse (MIC-CUST® BWH)
  - Inward processing relief (MIC-CUST® IPR)
  - Free zones (MIC-CUST® FZ)
  - Foreign trade zones (MIC-CUST® FTZ)
  - Duty drawback (MIC-CUST® Duty Drawback)
  - IMMEX-Maquiladora (MIC-CUST® IMMEX)
  - Automotive Fiscal Deposit (MIC-CUST® AFD)
  - Processing trade (MIC-CUST® Processing Trade)
  - and many more
- Complete audit trail, starting with the inventory-generating customs declaration to complete stock reduction of the specific inventory
- Each inventory addition and removal is identified by an inventory category, an inventory type and a reference to the transaction
- Management of import limits for defined tariff numbers based on quantity and/or value as well as validity periods according to the related customs authorization
- Calculation of the expiry date of each inventory entry according to customs authorization
- Check of re-import and re-export time limits including configurable automated globalization procedures according to the customs authorization
- Supports blocking of stock (withdrawals by MIC-CUST® Import and MIC-CUST® Export are not possible from blocked stock)
- The stock withdrawal logic supports the identity principle, configurable deduction sequences (e.g. FIFO), prior export principle and BOM explosion
- Configurable 'fill or kill' feature for stock withdrawal
- Track & Trace on bill of materials level, including real-time BOM explosion (e.g. for tracking of relevant goods from import to re-export of the finished product)
- Supports different methods for calculating customs duties (e.g. drawback, suspension, difference and added-value customs value assessment) including possible interest calculation
- Supports transfer from one inventory to another inventory (zone-to-zone transfer)
- Integrated MIC-CUST® import and export declaration
- Automated stock reconciliation and adjustment function via interfaces to ERP systems (additions/withdrawals) to cover various processes (e.g. scrap)

Global Trade Data Chain: MIC GTDC
- Automatic preparation of the import customs declaration from the export customs declaration with only one electronic transfer of the export data from ERP systems, resulting in …
  - Significant reduction of system interfaces
  - Reduction of errors and improved compliance
  - Centralization of process control and standardization of the process flow
  - Use of the export data for security filing in the recipient country prior to arrival of the goods (e.g. US Import Security Filing - 10+2)
- Automatic electronic transmission of the import customs declaration
  - to the customs authorities of the import country for intercompany shipments, and/or
  - to logistics and customs service providers (e.g. brokers, forwarders)

Electronic Transit Procedure:
MIC NCTS (Electronic Transit System - ETS)
- Save time through electronic management of the entire transit process
- Reduced financial burden due to quick release of the guarantee
- Reduction of search processes by monitoring of execution
- Reduction of transport time thanks to lower border waiting times
- Full transparency of the transit process through electronic data management
- Certified in many European countries

Guarantee Management: MIC-CUST® GUM
- Supports the establishing, monitoring, replacement and update of guarantees within the EU
- Covers import, export, special procedures, temporary storage and transit

Temporary Storage: MIC-CUST® TS
- Placement under temporary storage
- Amendment
- End of temporary storage
- Monitoring of temporary storage stock
- Link to comprehensive guarantees
- Integrated with MIC NCTS CE and MIC-CUST® Import

Recalculation: MIC-CUST® RECALC
- Adjustment process for customs declarations already filed with authorities and the duties involved
- Detailed archive of all change records, ensuring comprehensive documentation in the event of an audit

Port Communication System Integration: MIC PCSI
- Serves as an interface for electronic data exchange with Harbor Management IT-Systems for Seagoing Vessels (e. g. with the Portbase Port Community System in Rotterdam)

Authorities

Authority system

North America
Canada · Mexico · USA

South America
Argentina · Brazil · Colombia

Europe
Austria · Belgium · Bulgaria · Croatia · Cyprus · Czech Republic · Denmark · Estonia · Finland · France · Germany · Greece · Hungary · Ireland · Italy · Latvia · Lithuania · Luxembourg · Malta · Netherlands · Norway · Poland · Portugal · Romania · Serbia · Slovakia · Slovenia · Spain · Sweden · Switzerland · Turkey · United Kingdom

Africa
Egypt · Mozambique · South Africa

Asia
China · Dubai · India · Indonesia · Japan · Malaysia · Pakistan · Qatar · Russia · Saudi Arabia · Singapore · South Korea · Taiwan · Thailand · Vietnam

Australia

Communication with authorities

EDI, XML, PAPER, BROKER

MIC-CUST®

MIC ECM
Export control management
Screening against goods, country lists and sanctioned parties, determination of licensing requirements

MIC OCS
Origin calculation
FTAs: USMCA, EU, ASEAN etc. Management of supplier declarations & certificates of origin for goods

MIC CCS
Product classification
Part master data administration, automated global customs tariff and export control classification

MIC-CUST® Import

MIC-CUST®
Special customs procedures

MIC-CUST® Export

ERP

MIC-CUST® Import
- Order data
- Advanced Shipment Notification (ASN)
- Receipt of goods
- Invoices
- Address data
- etc.

MIC-CUST®
- Bill of Materials
- Stocks Movement (e.g. free circulation, re-export, scrap, waste)
- Inventory Reconciliation
- etc.

MIC-CUST® Export
- Advanced Shipment Notification (ASN)
- Invoices
- Address data
- Delivery note
- etc.

- Article data
- Address data
- Order data
- Bill of Materials
- etc.

MIC INTRA
Intrastat

The European Union has brought many benefits with respect to customs clearance, such as the cancellation of customs formalities at the borders between EU member states. Despite the consistent EU-wide regulation for Intrastat (system for collecting information and producing statistics related to the trade in goods between the countries of the EU) companies need to report to different national authority systems in all EU member states. This is a tremendous challenge, especially for multinational companies.

MIC INTRA is the only available software package which offers an efficient and economical solution for Intrastat declarations in all EU member states. In addition, MIC INTRA supports the automatic conversion of Intrastat dispatches of the country of dispatch into country-specific declaration formats for Intrastat arrivals of the recipient country, resulting in a reduction of system interfaces and minimization of manual interference.

One solution for all EU member states
- Developed for a quick roll-out in all EU countries
- Reduces the number of interfaces and improves data quality by automatic conversion of intercompany shipment data into arrival data for the destination country, taking national codes and data determination logics into consideration as well
- One central installation supporting at the same time local and national activities and requirements
- Takes company-internal regulations into account
- Supports the control of the national VAT statements

Automation via interfaces
- Interface for CN8 data feed for all EU member states via MIC GTCS (Global Trade Content Service)
- Transparency through complete automation and centralization for preparation of Intrastat declarations using standard interfaces and standard processes

Saves costs and time
- Reduced effort for preparation of monthly declarations
- Optimized local Intrastat processes

MIC EMCS
Excise Tax

The transport of goods subject to excise tax (alcohol, tobacco and energy products) under tax suspension involves strict obligations in the EU. All businesses dealing with such goods are required to handle these obligations electronically, which is often a great challenge.

To help with this process, we offer MIC EMCS (Excise Movement and Control System) as the optimal software solution – EU-wide and via one single platform. MIC EMCS also allows for electronic data transfer with systems of the individual EU member states, as well as monitoring the transport of goods subject to excise tax within the Community. An electronic notification will immediately be sent as soon as the goods have arrived at their destination. MIC EMCS avoids a number of error sources and reduces additional effort.

One EU-wide software solution
- For transmission and receipt of the electronic administrative document (eAD)
- For monitoring and control of goods liable to excise tax using real-time data
- To safeguard the transport of goods by checking the retailer's data prior to dispatch of the goods
- For fast and secure proof that the goods have arrived at their destination
- For receipt of the administrative reference code (ARC)

For process optimization
- Acceleration of dispatch declaration through integration with existing systems
- Fully automatic exchange of messages with different country-specific administration systems provides advantages or time-critical transactions
- Saves time and money

MIC GTCS
Global Trade Content Service

There is currently no single data source from which up-to-date trade content can be obtained at an appropriate level of quality on a global scale (e.g. export control commodity lists, exchange rates, code lists/customs offices, customs tariffs, etc.). It is common to manually check many different data sources in order to collect all the necessary information for an individual transaction. Obviously, this costs time and money.

Even with high-quality data sources there is still no guarantee that these sources are regularly updated as anticipated. In many cases, there are frequent changes which are hard to manage. This may result in violations of the law and consequences for your company.

In order to overcome such difficulties, MIC includes an extensive Global Trade Content Service (GTCS), suitable for use by companies in any industry. GTCS contains a collection of global trade content from well-known and trusted suppliers of trade content (both national authorities and content providers) with whom MIC maintains non-exclusive partnerships. MIC has a dedicated team that continuously monitors and updates the GTCS database, thereby eliminating the need to maintain trade content with constantly changing customs and trade regulations. MIC GTCS covers 150+ countries, ensuring automatic regular updates of customs and trade content for all MIC modules.

Your benefits
- Up-to-date Global Trade Content for 150+ countries like customs tariffs, exchange rates, rules of origin per FTA, export control lists and much more
- One consistent interface for automated updates
- Controlled population of the central Trade Content database
- Reduced data transfer via Delta population, i.e. only changes will be transmitted
- Monitored content distribution
- Precisely defined scope of content deliveries
- Quality checks
- Integration with MIC's GTM platform

MIC Data Analytics & Visualization

Data Analytics & Visualization is a core requirement for internationally operating companies to leverage their typically large amounts of data to identify patterns, trends, new opportunities, and problem areas across global compliance processes. The MIC Data Analytics & Visualization solution integrates the best of data management and analytics capabilities to support businesses in making intelligent and comprehensible data-driven decisions.

The MIC Data Analytics & Visualization solution provides valuable insights and knowledge to an organization that are essential for it to successfully discover, monitor, and analyze valuable information about the business and its operations. By providing such insights, the MIC Data Analytics & Visualization solution aims to enable businesses to interpret data smarter, make better decisions and optimize their worldwide customs processes. It really is a must-have capability in any modern customs software package, because it enables businesses to leverage customs-related data to detect data inconsistencies and mitigate compliance risk. It also helps businesses to identify new optimization potentials. The ultimate goal is to provide businesses with the ability to easily analyze and visualize meaningful data.

What does MIC Data Analytics & Visualization consist of?
So far within MIC we used tools and techniques such as reporting and business intelligence to analyze data and gain insight into a business. The fundamental difference between these two analysis tools is that while reporting simply presents data to you, business intelligence gives you the ability to interact with that data and create visualizations that considerably outperform the capabilities of standard reporting.

The MIC Analytics Stack is optimized for large data volumes as well as fast and responsive insight into data.. It enables flexible and efficient ETL (Extract, Transform and Load) processing of data to perform analytics and data visualization on the available datasets. Included features are:

- **Datasets:** The solution provides pre-defined module specific datasets for various data flows (e.g. import, export) from different sources (MIC GTM but also external sources possible). For example, an import dataset contains information about the importer, imported goods, invoice, supplier, declarant, price, transportation, duties & taxes, fees and much more.
- **ETL (Extract, Transform and Load):** Collects, translates and transforms data from different sources (e.g. Authority Reports, Broker Declaration Data, MIC GTM, Internal IT-Systems) into readable language according to WCO, EU and specific data sets. In context with trade content such as customs tariffs and free trade agreements, these data sets are enriched and transformed into valuable information.
- **Data Serving API:** RESTful API allows you to integrate the data into your own ERP system, BI tool or reporting tool by using pre-defined datasets. Data can also be exported in various file formats (e.g. CSV, JSON).
- **Business Intelligence:** The embedded web-based Apache Superset BI tool supports the creation of charts & dashboards and visualization of data. It comes with predefined analytics queries based on the available datasets, as well as predefined charts & dashboards. A highly intuitive user interface allows end users to easily make individual adjustments. Superset provides a security model which allows even a Row Level Security (definition of access rights for a specific user or role on a specific dataset).
- **Professional Services:** In case you need an individual analytics solution based on the MIC technology stack, we offer our professional experience to find the right solution for you.

Please consider that MIC module related BI and reporting solutions are offered as well to serve your further needs:

- **ECP (Enterprise Client Platform) Dashboards:** The solution is used for business monitoring with real-time data visualization and is meant for small to mid-size data volumes. MIC modules implement tiles/charts which can be combined in an ECP-based dashboard that is integrated and visible in the GTM application directly. The tiles/charts allow for secondary navigation to a defined screen within the certain MIC module, if the user has access to it.
- **Reporting:** Depending on your needs, we offer a broad range of solutions for reporting. From real-time transactional data solutions that requires paper-based reporting with highly customizable formatting (synchronous/asynchronous) to small/mid-size data volume exports in CSV/Excel formats up to very large data volumes by using the MIC analytics Rest-API.

Your benefits
The MIC Data Analytics & Visualization module can be run integrated with the various MIC modules, but also stand-alone. It's therefore a perfect starting point for gaining visibility into an organization's global customs processes. The system is offered as a SaaS (Software-as-a-Service) solution. It enables fast and easy access to dashboards, reports, and key metrics. MIC's Data Analytics solution was designed to deliver the following benefits:

- Deliver solutions appropriate to the use case and minimize static reporting
- Get valuable insights of your business in time and improve decision making thanks to market behavior identification based on relevant business data
- Identify compliance risks as well as potential savings and trends
- Intuitive web-based user interface that easily allows individual creation and adjustments to charts and dashboards, offering fast and responsive insights into large amounts of data by end users without MIC's involvement
- Save time and money

MIC Professional Services

At MIC, specialists take care of our customers' concerns: from the configuration of a standardized customs and trade compliance software package to the implementation and integration of our products into existing business processes and systems. MIC provides a complete range of professional services offering which includes qualified project management (PMI certified, CMMI standards), integration, training, content, and premium support up to 24/7. Maintenance, support and continuous adaptation to legal changes is not just a contract – it is a responsibility.

All MIC employees have in-depth customs and trade compliance knowledge along with professional IT training. MIC has focused exclusively on customs and trade compliance software solutions for over 35 years.

Over 20% of MIC US employees are licensed customs brokers. US Customs Brokers must have expertise in entry procedures, admissibility requirements, classification, valuation and the rates of duty as well as applicable taxes and fees for imported merchandise.

Software development
- Standard software
- Product innovations
- Customer specific software adaptations
- Standard interfaces to ERP systems (e.g. Oracle, SAP ERP ECC 6.0 EhP8 as well as SAP S/4HANA)
- Further technological development of the standard software
- Quality management

Project management
- Agile project management methods for projects with high complexity
- Analysis of business processes
- Installation & system configuration
- Integration with ERP systems
- Setup of electronic data exchange with local authority systems
- Data migration
- Overall business process tests
- Client Walk Through (CWT)
- User Acceptance Testing (UAT)
- Trainings
- Go-live support

Support
- 2nd & 3rd level application support
- Availability 8x5 to 24x7
- IT hosting & operation

Maintenance
- Timely maintenance of standard software according to legal changes
- Maintenance of customer specific software adaptations

Our project team leaders are Project Management Professionals® (PMP) or hold equivalent qualifications. PMP is the most widely recognized certification in the project management sector. MIC follows Capability Maturity Model Integration® (CMMI) guidelines and Information Technology Infrastructure Library (ITIL) standards, so all MIC internal process flows are documented, checked and continuously improved.

MIC Partner

As a leading supplier of global software solutions, MIC focuses on companies of international standing as partners, allowing MIC to offer optimal solutions and best results for its international customer base.

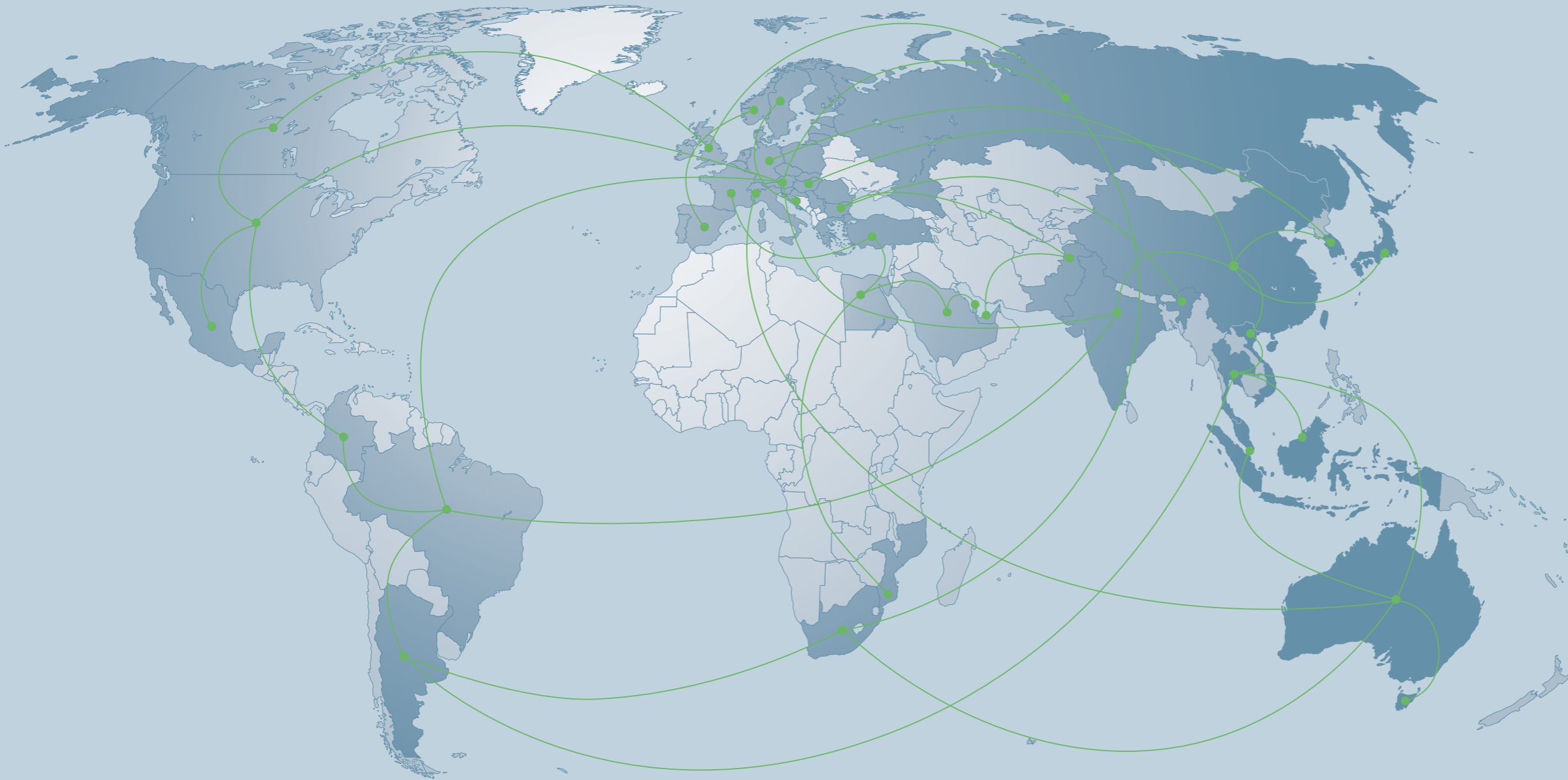|		
Technology	ORACLE®	**Oracle** MIC relies on Oracle databases.
	INFORMATICS	**Informatics** Informatics supports the MIC SAP team around the integration of MIC modules with customer SAP systems (e.g. ECC 6.0, S/4HANA).
Global Trade Content	Mendel	**Mendel Verlag** Mendel Verlag is a specialized content provider for tariff and non-tariff regulations of third countries as well as international customs and export control law. Mendel Verlag is also a long-term content provider for interactive databases for the European Commission, such as the EU Market Access Database.
	PST.AG	**PST.AG** PST.AG supplies content for all areas of foreign trade to a large number of companies worldwide.
	dun & bradstreet	**Dun & Bradstreet** Dun & Bradstreet supports MIC with up-to-date content regarding companies' ownership structures in the context of the Ultimate Beneficial Owner (UBO) screening.
	DOW JONES RISK & COMPLIANCE	**Dow Jones (Risk & Compliance)** Dow Jones (Risk & Compliance) supports MIC with content for Sanctions Control Lists and Ownership screening.
Supply Chain Execution	inet part of alpega	**Alpega/Inet** Inet is MIC's partner for global solutions in supply chain execution (e.g. transportation management).
Consulting & Services		MIC works closely together with four of the largest, but also with numerous national boutique consulting firms, in the field of customs and trade compliance.

Global Solutions,
Multinational Service

Available countries

Europe	North America
Austria	Canada
Belgium	Mexico
Bulgaria	USA
Croatia	
Cyprus	**South America**
Czech Republic	Argentina
Denmark	Brazil
Estonia	Colombia
Finland	
France	**Africa**
Germany	Egypt
Greece	Mozambique
Hungary	South Africa
Ireland	
Italy	**Asia**
Latvia	China
Lithuania	Dubai
Luxembourg	India
Malta	Indonesia
Netherlands	Japan
Norway	Malaysia
Poland	Pakistan
Portugal	Qatar
Romania	Russia
Serbia	Saudi Arabia
Slovakia	Singapore
Slovenia	South Korea
Sweden	Taiwan
Switzerland	Thailand
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