UAE Client Centers
Portfolio of Solution Demonstrations
Government
Description
Indirect Tax Compliance is a multi-party, transaction intensive process that requires tax filings to reconcile to the penny across all invoices and purchase orders. Global Government Tax Authorities are moving to “real-time” filing and compliance models. Blockchain provides a common, trusted, financial audit trail that becomes the single source of truth for all participants in the process. As a result the process is streamlined, with improved oversight and planning which reduces risk.

Business Value
Both Extensive Cost Savings and Increase Tax Collection

IBM Component(s)
- Hyperledger Fabric 1.x
- Fabric Compose
- CouchDB
- IBM Cloud
- Docker
- Cognitive Analytics
IBM MetroPulse senses what is happening on a block by block basis in real time through its advanced analytics platform. With these on demand signals retailers and CPG companies can use pre-built algorithms to make precise decisions to better serve their customers in each neighborhood. This personalization results in greater revenue and customer loyalty while driving operational efficiency.

**Business Value**

Direct MP services: Deployment / ETL /data integration and data model tuning service

**IBM Component(s)**
- IBM Cloud service
- IBM MetroPulse Asset Allocstor
IBM Physical Security demonstration integrates IBM Video Analytics and IBM Operation Centre systems providing full security solution for Cities, Sites underlying agency status, and helping optimize operational efficiency. It shows 3 use cases of Distracted Driver, Plate recognition and Facial recognition to control access and raise alerts in case of non-compliance to rules. It uses IOT devices (fixed cameras, drones, etc..) Integrated data visualization, real-time collaboration, and deep analytics help city agencies and companies prepare for problems, plan for growth, and coordinate and manage response efforts. As a result, leaders can effectively deliver services in a more sustainable fashion, enhancing the ongoing efficiency of city operations while protecting citizens and driving economic growth.

Business Value
IVA & IOC can help draw insight from disparate data sources in order to build a common operating picture so all stakeholders knows what’s happening. The solution can identify patterns and anomalies over time and help find the root cause. Built on domain specific, yet extensible platform, It enables you to get the correct information to the right people at the right time.

IBM Component(s)
- IBM Intelligent Video Analytics
- IBM Operation Center embedded in the software stack is; WebSphere, DB2, IBM HTTP Server, SPSS & Cognos.
Healthcare
Cognitive Hospital Advisor

Description
The hospital cognitive advisor serves as a virtual assistant at hospitals. Through human conversation, it helps patients in checking in for appointments as well as scheduling new ones, provides directions to different departments and areas around the hospital, and answers other general questions about the hospital.

Business Value
- Usage of AI to provide innovative services to patients
- Personalized and easy check in process for patients
- Customized platform for appointment scheduling for doctors and nurses
- Provides directions and instructions for patients

IBM Component(s)
- Watson Assistant
- IBM Cloud
The Hospital RN app allows nurses to tap immediately into integrated systems of record and task organization and prioritization tools. Staying connected to colleagues and care workers and optimizing RN workflow facilitates more effective and efficient care delivery.

**Business Value**
- Personalized task / patient lists directly from systems of record
- View, prioritize and manage tasks (including discharge tasks)
- Add, receive and delegate task assignments
- Alerts and notifications to provide pertinent information in real-time
- Key patient information available

**IBM Component(s)**
- MobileFirst for iOS Healthcare
- IBM Cloud
Description
The Hospital Tech app enables nursing assistants and technicians to organize and prioritize tasks, and stay connected to other staff. The use of intuitive mobile tools to enable Tech workflow allows for more time spent caring for patients.

Business Value
• Personalized task and patient lists that pull directly from systems of record
• View and manage tasks and report an issue
• Add and receive task assignments
• Alerts and notifications to provide pertinent information in real-time
• Key patient information available at tech’s fingertips

IBM Component(s)
• MobileFirst for iOS Healthcare
• IBM Cloud
Description
The Hospital Lead app enables charge nurses and care managers to view at-a-glance displays of the work for the nursing unit right at their fingertips, so they can shift work and delegate tasks appropriately and quickly.

Business Value
• PeAbility to manage unit workflow by monitoring admissions
• Access task prioritization and patient logistics
• Organize, prioritize and delegate tasks to the right staff
• Monitor patient progress toward discharge
• Understand the workload of each staff member and adjust as needed
• Alerts and notifications to provide pertinent information in real-time
• Key patient information available at leader’s fingertips

IBM Component(s)
• MobMobileFirst for iOS Healthcare
• BM Cloud
Hospital Care Worker Suite - Hospital MD App

Description
The solution:
- Secure access to systems of reference so physicians can view patient information including demographics, diagnosis, orders, care plans, and average length-of-stay information
- Enables effective communication of patient status and care directives to broader care team for immediate action at point of service
- Alerts and notifications to provide pertinent information in real-time

Business Value
- Personalized task and patient lists that pull directly from systems of record
- View and manage tasks and report an issue
- Add and receive task assignments
- Alerts and notifications to provide pertinent information in real-time
- Key patient information available at tech’s fingertips

IBM Component(s)
- MobileFirst for iOS Healthcare
- IBM Cloud
The Home RN app is designed to streamline and support workflow for nurses visiting patients in the home, and is part of a suite designed to improve the daily work of individuals, teams, and managers.

**Business Value**
- View completed tasks from past visits
- Intelligent routing and built-in metrics tracking for time spent on visits and summary.
- Track adherence to recommended aftercare plans and discharge instructions
- Easy access to contacts
- Capture and share photos, videos, text and voice notes through built-in iOS technology; thus improving communication and care coordination
- Access to consolidated patient information and key contacts, all at the nurse’s fingertips

**IBM Component(s)**
- MobileFirst for iOS Healthcare
- IBM Cloud
IBM IoT for Energy is an open analytics solution designed to meet a wide range of current and future provider needs. Via data integration, analytics, and visualization it provides a detailed, accurate understanding of historical and current asset and network performance. It integrates with existing data sources and operational processes to analyze and predict asset performance and risk to help deliver safe, reliable, affordable and sustainable energy. Key applications will be demoed include asset performance management health and risk, investment planning and wind farm optimization.

Business Value
- Improve maintenance practices and plans
- Quickly assess risk and impact on grid
- Understand assets in operational context
- Prioritize maintenance and replacement
- Optimize wind farm operations

IBM Component(s)
Watson IOT for Energy & Utility
Oil & Gas
IBM and Schneider Electric (SE) are leveraging Internet of Things (IoT) and Cognitive Computing to maximize industrial process up-time and reduce Total Cost of Ownership. The demo connects an industrial equipment through the Schneider IIoT Box and provides Predictive Analytics, and Cognitive Availability services, integrated with Enterprise Asset Management System (Maximo). This is relevant for any industry that uses equipment to manage production, distribution or industrial processes.

**Business Value**

The purpose of this demo is to collect data from any control device or sensor in a plant and to use IBM Analytics to predict likely failures before they occur. When a pattern is detected that raises concern, it triggers a work order in IBM’s Enterprise Asset Management Software (Maximo) to dispatch a repair technician with the right skills, tools, and parts before any failure happens. The repairs can then be made at times of least disruption for the operation of the business.

**IBM Component(s)**
- Watson IoT platform
- Cloud platform
- Big data and predictive analytics tools from IBM

**BP Component(s)**
Industrial equipment and Operational Technology (OT) expertise from Schneider Electric (SE).
Description
An integrated workplace management system (IWMS) that can increase the operational, financial and environmental performance of your facilities and real estate. Through business analytics, critical alerts and automated process capabilities, TRIRIGA can increase visibility, control and automation of your real estate management, capital projects, space management, facility maintenance and energy management needs. Finance and real estate executives can make more informed decisions—bringing increased value to their organizations through identification of high-return real estate transactions, increased facilities utilization and reduced energy expenses.

Business Value
- Improve facility utilization
- Maximize capital projects
- Reduce energy costs
- Reduce facility operations
- Optimize lease accounting

IBM Component(s)
- Tririga 10.5
Cognitive Gas Adviser

Description
The gas advisor is a chatbot that helps Oil and Gas companies gain insights on gas production data by retrieving stored data about gas production on specific dates, performing some comparisons, and fetching planned production for future dates. It also serves as a company receptionist, providing general information about the companies, management, and the weather.

Business Value
• Cost and time reduction by reducing database accessing time
• Provides secure data accessing by using facial recognition for authorization

IBM Component(s)
• Watson Assistant
• IBM Cloud
Description

Connected Workers demonstrating the wellness and safety in the Oil and Gas industry, where wearable technologies presents a new opportunity for reducing workplace death and injuries. The demo shows how wearable technology powered by IBM Watson IoT Platform help companies protect themselves and their employees from the financial loss and human cost of workplace injuries.

Business Value

The demo has temperature sensor and gas monitor and help expose and visualize the safety of the workers. You can also gather a heat map from the factory where any incidence have likely to occur.

IBM Component(s)

- IBM Watson IoT Platform
- Real-Time Insights
- Cloudant NoSQL
- IBM cloud
Watson IOT solution with Connected Refrigerator

Description
Connected Fridge in the Retail industry, where it demonstrates how to monitor and track refrigerators. The connected fridge is programmed with sensors to sense surrounding events and share it with the Watson IoT Platform for further analytics.

Business Value
Monitoring the temperature the ref, can guarantee the content of the storage of the ref not exposed in high temperature, avoid spoilage from defrost of meat transported outside UAE, could indicate if the door is closed properly from the light and the temperature available in the fridge.

IBM Component(s)
- IBM Watson IoT Platform
- Real-Time Insights
- Cloudant NoSQL
- IBM cloud
IBM i2 Enterprise Insight Analysis helps your organization turn overwhelming and disparate data into actionable insight and intelligence, in near real time. From national security and defense, to cyber and enterprise-wide threats, the solution helps you develop a comprehensive understanding of your threat landscape to identify vulnerabilities and disrupt threats. The combination of machine-led analytics and human-led analysis capabilities helps you quickly find hidden connections and critical patterns buried in internal, external and open-source data.

Business Value
- Detect advanced physical and cyber threats.
- Uncovers hidden patterns and relationships in data by performing advanced analytics at scale and at speed.
- Supports operational and technical interoperability by integrating with existing infrastructure and third-party solutions and data sources as well as facilitating information sharing between and among organizations.
- Offers a cost-effective solution designed to enable organizations to be self-sufficient, thereby helping to reduce training, maintenance and deployment costs.

IBM Component(s)
- IBM I2 Enterprise Insight Analysis
QRadar V 7.2.8 Security Information and Event Management (SIEM)

**Description**
QRadar security intelligence solution is referred to as a detective security control within an IT security framework. SIEM Events and Flows are collected, normalised and correlated against rules that trigger offenses. QRadar Vulnerability Manager (QVM) - network scanning platform that detects vulnerabilities within the applications, systems, and devices on your network. QRadar Risk Manager (QRM) - for monitoring device configurations, simulating changes to your network environment, and prioritizing risks and vulnerabilities in your network. QRM understands the network connections that are taking place and presents this to QVM to modify the risk score when connections are detected that could be seen as exploiting the vulnerability that is detected.

**Business Value**
QRadar is used for the real-time collection, normalisation and analytics of the data (events, flows, network packets, device config) generated by users, applications and the infrastructure that impacts the IT security and risk posture of an enterprise.

**IBM Component(s)**
QRadar v7.2.8 has been installed and configured with SIEM, QVM, QRM, QRIF and QNI modules. It also has the necessary applications installed for the integration with Resilient and i2 Notebook.
Business Analytics Vision

Description
The Vision Demo images is to present IBM’s ability to deliver on this life cycle of turning data into insight and insight into action. IBM Planning Analytics provides a market leading tool for building your business plans, this integrates with Cognos Analytics that lets you track actual and compare to your plans. Watson Analytics provides the smart data discovery component that can help you understand why you may be tracking on or off plan. SPSS or Data Science Experience provide leading predictive analytics capabilities including forecasting and prescriptive analytics such as optimisation. These capabilities complement and are integrated with business planning to enable constraint based planning and forecasting.

Business Value
- Enterprise solution
- Trusted source of information and insight
- Starts the user down the path to understanding an outcome to take advantage of or resolve
- A portal for other technologies using Custom Controls

IBM Component(s)
- Watson IoT Platform
- IBM Cloud
IBM Cloud Private

Description
Private cloud is a cloud-computing model run solely for one organization. It can be managed internally or by third party, and can be hosted behind the company firewall or externally. Private cloud offers the benefits of a public cloud, including rapid deployment and scalability plus ease of use and elasticity, but also provides greater control, increased performance, predictable costs, tighter security and flexible management options. Customize it to your unique needs and security requirements.

Business Value
- Control and security
- Speed and scalability
- End-to-end development

IBM Component(s)
- IBM powert
- IBM Storage
- IBM Z
Description
Master the art of data science; solve your toughest data challenges with the best tools and the latest expertise. IBM Data Science Experience is an interactive, collaborative, cloud-based environment where data scientists can use multiple tools to activate insights. They can use open source, tap into unique features, grow their capabilities and share successes. IBM Analytics platform offerings provide a modern analytics architecture for all your data needs, based on a consumption pricing model. Gain access to an entire suite of products within a platform offering. Pay for only what you use, and choose subscription or perpetual licensing.

Business Value
- Single workspace for your tools
- Shareable, collaborative projects
- Searchable, growing community
- Supporting content, where you need it
- Jupyter Notebooks

IBM Component(s)
- IBM DSX
- IBM Cloud