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About Onware Business Solutions

Onware is a team of software professionals based in Edmonton, Alberta, Canada. We have been building Internet Applications for over 15 years. Our passion is building great software and experiences for our clients with attention to detail.

The Onware Contract Administration Internet application was first created in 2002 as a spin-off from the University of Alberta’s Software Engineering Research Lab.

In addition to the Onware application, we have almost 10 years of experience implementing and supporting Tableau and Microsoft applications throughout small and large businesses, including consultants, service providers, government entities, general/sub/specialty contractors, and those in the architectural, engineering, construction, and owner (AECO) industry. We have extensive experience working with Procore, ViewPoint, and eCMS construction management software.

Whether it is helping you manage your team or to give visibility to the executive and board-level oversight, we have the answers to your organization’s needs and challenges. We have extensive experience with monitoring volume or resolution times, workload distributions, sales and KPI tracking, construction and project management, budget administration and financial analysis.

Tableau

Tableau helps people transform data into actionable insights that make an impact. Easily connect to data stored anywhere, in any format. Quickly perform ad hoc analyses that reveal hidden opportunities. Drag and drop to create interactive dashboards with advanced visual analytics then share across your organization and empower teammates to explore their perspective on data. From global enterprises to early-stage startups and small businesses, people everywhere use Tableau’s analytics platform to see and understand their data.

Microsoft

Foster innovation everywhere across your organization with the Microsoft Power Platform – analyze data, build solutions, automate processes, and create virtual agents. The Microsoft Power Platform is more than the sum of its parts. Connect them together – and to Office 365, Dynamics 365, Azure and hundreds of other apps – and build end-to-end business solutions.
CUSTOMERS

Onware’s products and services have been utilized on many large scale and high profile construction projects, some examples include:

- Calgary International Airport - $1.4B
- Edmonton Clinic - $500M
- Grande Prairie Regional Hospital - $460M
- Stanton Territorial Hospital - $300M
- NAIT Centre for Advanced Technology - $192M
- RBC Branch Renovations - 500 projects, $155M
- Northlands Expansion - $155M
- Edmonton Federal Building - $229M
- Healthcare Research Innovation Facility - $165M
- MacEwan Centre for Arts - $143M
- Innovation Centre for Engineering - $103M
- Clareview Recreation Centre - $88M
- Meadows Recreation Centre - $85M
- Edmonton International Airport - $62M
Onware are experts in dealing with complex construction and financial data. Let us help your organization transform its data into actionable insights through visual analytics to drive business results.

**KEY SKILLS**

- Knowledgeable in working with complex data sources including: eCMS, ViewPoint, Procore, Sage, SQL Server, etc.
- Integrating data from different sources
- Dashboard design
- Project-based data and reporting including job cost reports, scheduling, management, etc.
- Financial data and reporting including income statements, balance statements, account receivables and payables, etc.

Some examples from Onware’s catalog of dashboards and reports:

**VISUAL ANALYTICS**

**EQUIPMENT USAGE AND COST (ECMS)**

**JOB TIME LINES AND MAPPING**

**WORKFORCE ANALYSIS (PROCORE)**
TABLEAU CREATOR

Discover insights with a powerful suite of products that support your end-to-end analytics work flow. This includes Tableau Desktop and Tableau Prep on Tableau Server or Tableau Online.

At least one (1) Creator is required for every deployment of Tableau.

TABLEAU DESKTOP

Tableau Desktop makes it easy to answer questions about your data visually, in minutes. Connect to any data and drag and drop to analyze. Create interactive visualizations and dashboards - all without any programming. Then share with a few clicks. Tableau connects live to most databases and spreadsheets and also offers a fast, in-memory data engine to speed up analysis. Anyone who is comfortable with Excel can learn Tableau quickly.

SYSTEM REQUIREMENTS

Microsoft
- Microsoft Windows 7 or newer (64-bit)
- Microsoft Server 2008 R2 or newer
- Intel Core i3 or AMD Ryzen 3 (Dual Core)
- 4GB memory
- 2GB minimum free disk space

Mac
- MacOS High Sierra 10.13 or newer
- Intel Core i3 (dual core)
- 4 GB memory
- 2 GB minimum free disk space

PRICING

$840 USD per user per year

TABLEAU PREP

Data prep is one of the biggest challenges facing our customers today. Tableau Prep simplifies common data preparation tasks—such as joins, unions, pivots, cleaning, and aggregations—with a drag-and-drop experience. It offers a complete picture of your data and helps you bridge the gap between data preparation and analytics, for better business results.

SYSTEM REQUIREMENTS

Microsoft
- Microsoft Windows 7 or newer (64-bit)
- Microsoft Server 2012 R2 or newer
- 2GB memory
- 1.5 GB minimum free disk space

Mac
- MacOS High Sierra 10.13 or newer
- 1.5 GB minimum free disk space

PRICING

$840 USD per user per year
SERVER DEPLOYMENT OPTIONS

With Tableau, you have the freedom to choose either a Tableau Online or Tableau Server license depending on the needs of your organization.

TABLEAU ONLINE

Tableau Online is fully hosted by Tableau.

ANALYTICS FOR EVERYONE, EVERYWHERE

Share insights across your organization with a fully-hosted analytics solution. Publish data sources and dashboards in seconds, empowering everyone in your business with access to interactive visual analytics. With Tableau Online, your analytics are hosted in the cloud. Anyone—from coworkers to clients and partners—can collaborate with data from a browser or mobile device. Say goodbye to VPNs, software upgrades, and capacity limits.

SPECIFICATIONS

- Fully hosted and delivered as a service with maintenance, upgrades, and security managed by Tableau.
- Centrally manage data sources and workbooks.
- Explore analytics from any browser or mobile device.
- Author on the web and subscribe to workbook updates.

TABLEAU SERVER

Tableau Server is hosted by your organization on your own servers.

COLLABORATION FOR ANY ORGANIZATION

Tableau Server is business intelligence that provides browser-based and mobile analytics. It’s a rapid-fire alternative to the slow pace and rigidity of legacy solutions. Users publish dashboards to Tableau’s secure web server and then anyone can filter, highlight and drill down right in a browser or on a tablet. There is no programming required. Tableau integrates with your data architecture, respects your security protocols and scales to the largest organizations.

SYSTEM REQUIREMENTS

- Microsoft Windows Server 2016, 2012, 2012 R2, 2008 R2; Windows 7, 8, and 10
- CentOS 7, Ubuntu 16.04 LTS, Red Hat Enterprise Linux (RHEL) 7, Oracle Linux 7

HARDWARE GUIDELINES

The minimum configuration recommended for production usage of Tableau Server is based on these hardware specifications:

- 64-bit processor
- 8 physical cores, 2.0 GHz or higher CPU
- 32 GB system memory
A minimum initial purchase of five (5) explorer licenses is required.

A minimum initial purchase of 100 Viewer licenses is required.

You can choose Explorer or Viewer or a combination of both.

**TABLEAU EXPLORER**

Explore trusted data and answer your own questions faster with full self-service analytics. Explorers gives business users the ability and autonomy to access and explore published data sources to ask and answer questions that lead to new insights and better business outcomes. Explorers can analyze any data sources or workbooks on the server. They can create a new analysis on the web based on governed data sources, and subscribe and create alerts for themselves and their colleagues.

**PRICING**

$420 USD per user per year (Tableau Server).

$500 USD per user per year (Tableau Online).

**TABLEAU VIEWER**

View and interact with dashboards and visualizations in a secure, easy-to-use platform. Tableau Viewer makes it possible for organizations to extend the value of data and analytics across their entire workforce in a very cost-effective manner. Viewers are able to view and filter dashboards, receive and manage subscriptions, and receive data-driven alerts, all via a web browser and/or their mobile device.

**PRICING**

$144 USD per user per year (Tableau Server).

$180 USD per user per year (Tableau Online).
TABLEAU PRODUCT ADD-ONS

TABLEAU DATA MANAGEMENT ADD-ON

Better manage the data within your analytics environment, and ensure that trusted and up-to-date data is always used to drive decisions.

Build more trust in your data - from data preparation to cataloging, search, and governance - to accelerate the adoptions of self-service analytics

Included in add-on: Tableau Prep Conductor and Catalog.

TABLEAU PREP CONDUCTOR

Harness the data prep work your team has already performed in Tableau Prep Builder by automating and scheduling flows in your Tableau Environment. With monitoring and alerting capabilities, ensure everyone is using the most up-to-date data.

TABLEAU CATALOG

Get a complete view of all of the data being used by Tableau, and how it is connected to your analytics - including lineage, impact analysis and usage metrics. Increase the trust and discoverability of the right data for everyone in your organization.

PRICING

$66 USD per user per year.

$3000 USD per year per resource block (minimum one (1) required for Tableau Online).

SERVER MANAGEMENT ADD-ON

Make it easier to run large, mission-critical Tableau Server deployments. With the Server Management Add-on, you can react quickly to the changing needs of your business and save time by streamlining the management process.

PRICING

$36 USD per user per year

DATA MANAGEMENT AND SERVER MANAGEMENT ADD-ON REQUIREMENTS

• All users (creator/explorer/viewer) require a license.

• Minimum of 100 licenses.
TABLEAU PROFESSIONAL SERVICES

Need help getting things implemented? Want to make your visualizations pop? Onware offers a variety of professional services. Draw on our experience implementing Tableau in organizations of all sizes.

CONNECTIONS TO DATA SOURCES

Connect directly to your data for live, up-to-date data analysis that taps into the power of your data warehouse. Or extract data into Tableau’s fast data engine and take advantage of breakthrough in-memory architecture. Or do both, for two, three, or even ten different data sources and blend them all together. It’s up to you and your data. Tableau offers data connections to over 50 different sources.

Onware will help you connect to your data, and ensure that your data is secure by configuration data connection permissions and row-level filtering as necessary.

DATA CONNECTIONS² $175 USD / HR

VISUALIZATION CONSULTING

Onware provides live on-line and on-site services to help with your Tableau visualizations. This includes management consulting and business analysis to truly understand your needs to develop the most meaningful, impactful, and business specific visualizations to meet your business requirements.

VISUALIZATION CONSULTING¹ ² $175 USD / HR

SERVER INSTALLATION

Onware provides live on-line implementation services to help with your deployment. This includes installation and configuration of Tableau on your server(s). We will also help to determine and implement a suitable backup strategy for your organization.

Typical server installations take less than four (4) hours.

SERVER INSTALLATION² $175 USD / HR

TRAINING

Training is critical to get the most out of Tableau. One of the goals of Tableau is to empower users with the ability to manipulate data and deliver the results you are looking for. For the most complete training experience, we recommend:

- Tableau Desktop Fundamental Training.
- Tableau Server Administrator Training.
- Tableau Advanced Training.

Training is offered by Tableau, purchased by Onware.

TRAINING³ $1,400 USD / COURSE/ PERSON

We also perform fixed fee engagements based on specific project requirements. Contact us for more details.

1 Travel expenses to locations outside Edmonton charged at cost.
2 Billed in half-hour increments.
3 Available direct from Tableau and delivered Virtually or at a Tableau training center. Current course availability can be found on Tableau’s website at www.tableau.com.
MICROSOFT PROFESSIONAL SERVICES

Onware also offers a variety of Microsoft professional services.

Contact us for more information and we can discuss specific project requirements and build custom proposals and pricing.

MICROSOFT AZURE SERVICES

Turn ideas into solutions with more than 100 services to build, deploy, and manage applications - in the cloud, on-premises, and at the edge - using the tools and frameworks of your choice. Onware is an expert with Azure, and configuring deployment optimally for redundancy and performance.

EXISTING IT INTEGRATION

Let Onware integrate the public cloud applications with your existing IT environment for increased efficiency and productivity.

Discuss specific project requirements with us and we can build custom proposals and pricing.

CUSTOM APPLICATIONS

We can build applications in any language, tool, or framework tailored for your organizational needs.

PAST PROJECTS

We have experience in a variety of technologies, including:

- ASP.NET MVC/Razor/Web API
- .NET Core
- AngularJS
- iOS development
- Universal Windows Platform (UWP) apps
- Android Development
- Xamarin
- SQL Server DB Design and Deployment
- Docker
TABLEAU GUIDED EVALUATION

INTENT OF GUIDED EVALUATION

The guided evaluation is a tool for organizations in the process of evaluating using Business Intelligence to deliver project and corporate financial information to decision makers such as managers, superintendents, and outside agencies.

The intent of the guided evaluation is to answer the following questions:

1. How will Tableau integrate with financial systems and what effort is required to make it a mainstream business service?
2. How will Tableau integrate with other systems (i.e. project management, time keeping)?
3. How can a production Tableau environment be the most optimally deployed in terms of technical readiness and business value?
4. What is the estimated capital and operational cost of the production environment?
5. What would be the key milestones to establish a production service?

SCOPE

Onware has successfully completed guided evaluations throughout Canada and the United States. The guided evaluation will take a consultative, collaborative, and educational approach and it is intended to involve key stakeholders from your organization.

PREPARING THE DATA

- Identify where the raw data is and how to connect to it.
- Determine how to optimize the raw data for Tableau to consume it.
- Determine how Tableau Server will connect to the data.

PUBLISHING AND SHARING

- Publishing and sharing the provided dashboards to Tableau Server.
- Determine and configure security and login requirements.

VISUALIZATION BEST PRACTICES

Collaboratively build visualizations based on requirements and feedback.

CLIENT USE CASES

The guided evaluation will attempt to deliver prototype visualizations based on up to four (4) use cases to be determined by your stakeholders leading up to the evaluation.

FINISHED VISUALIZATIONS

The finished example visualizations, based on your use cases will be published on Tableau Server. Copies of the working files from Tableau Desktop will be provided as well.
REQUIREMENTS

ONWARE WILL SUPPLY

• Tableau Desktop and Server two (2) week evaluation license.
• Senior Tableau consultant - four (4) days.

YOU AGREE TO SUPPLY

• Up to four (4) use cases to build Tableau visualizations.
• Windows server to host Tableau server (see page 8 for hardware requirements) or choose Tableau Online.
• Key stakeholder involvement during time on-site; namely those with knowledge and access to the data being used in the evaluation and those who understand the vision.

COST

PROFESSIONAL SERVICES

We expect the guided evaluation to take four (4) business days to complete. Consultants will be on-site and will need access to key stakeholders and data.

Cost is based on four (4) days of consulting time. The amount of work that can be accomplished during this time is highly dependent on resource availability and integrity of the data.

Please contact us to discuss your use cases and pricing.

TRAVEL AND MATERIALS

It is assumed all on-site work will take place at the client site. Therefore, the following travel expenses are reimbursable at cost:

• Airfare from Edmonton, AB, Canada.
• Hotel accommodations.
• Ground transportation and parking.
• Meals while on site.

DELIVERABLES

PROTOTYPES

Four (4) prototype visualizations published on Tableau Server or Tableau Online.

DATA CONNECTION RECOMMENDATIONS

Recommendations on the connections required for production.

INFRASTRUCTURE REPORT CONTAINING

• Infrastructure requirements for the production environment.
• Estimated infrastructure costs: licensing, design, and services.
• Key milestones and steps needed to move Tableau into production.
CONTACTS

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