



THE VISION FOR QLIKVIEW.NEXT

A QlikView White Paper

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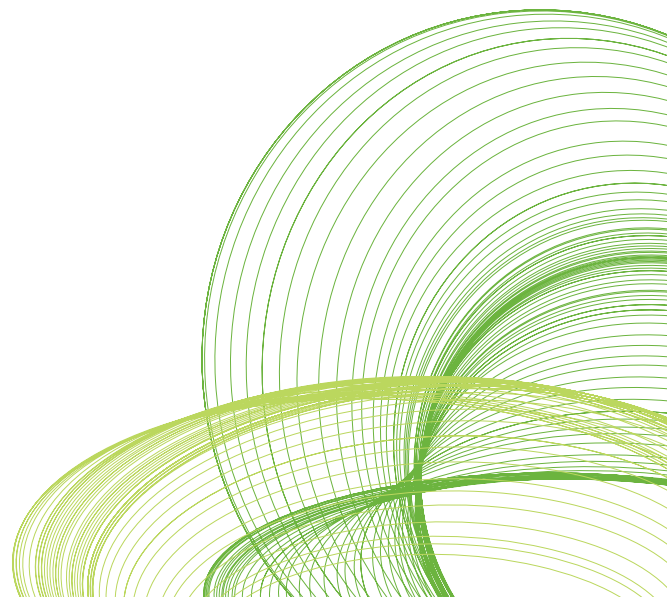


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Executive Summary

In March 2012, we released the first wave of information about QlikView.Next – the code name for the next generation of the QlikView Business Discovery platform. At that time we focused on the five themes of QlikView.Next, around which we've organized our strategy, planning, and software development activities for a major new set of software releases.

This white paper goes a bit deeper and discusses the specific scenarios and capabilities we are focused on within each QlikView.Next theme:

- **Gorgeous and Genius.** Within the “Gorgeous and Genius” theme we are focused on three product scenarios, with an overall emphasis on ad hoc analysis. These scenarios are “Visually Beautiful”, “Associative, Comparative, Anticipatory”, and “One Client to Rule Them All.”
- **Mobility with Agility.** The “Mobility with Agility” theme is about all users having access to Business Discovery capabilities from any device, and being able to ask and answer new questions as they arise in new situations and contexts on the road. QlikView on Mobile users will inherently benefit from all of the themes of QlikView.Next. In addition, in the “Mobility with Agility” theme, we are focused on two additional scenarios: “Optimized for Mobility” and “Full Business Discovery on Mobile.”
- **Compulsive Collaboration.** Business intelligence and collaboration are inseparable; decision making is by nature a collaborative activity. We will put QlikView at the forefront of users' shared decision making with two scenarios: “A New Point of Access,” and “Communicate Your Insights.”
- **The Premier Platform.** This theme is about enabling customers and partners to quickly and easily deliver apps and solutions that are perfectly relevant to their constituents. Within the “Premier Platform” theme we are focused on four scenarios: “No Data, No Discoveries,” “Delightful Development,” “Expanded Ecosystem,” and “Unified Platform Interface.”
- **Enabling the New Enterprise.** We are focused on making capabilities like security, reliability, and scalability available to all customers, not just the largest ones, and giving QlikView administrators the same kind of gorgeous and genius experience other users get. The five product scenarios within this theme are “Global Deployments,” “Improved IT Management,” “Safe and Secure,” “Streamlined Application Deployment,” and “Redefined Licensing.”

We are very excited about this journey we're on to deliver the next-generation Business Discovery platform and hope you are, too.

Please note: *This information is intended to outline our general product direction and should not be relied on in making a purchase decision, as the development, release, and timing of any features or functionality described for our products remains at our sole discretion.*

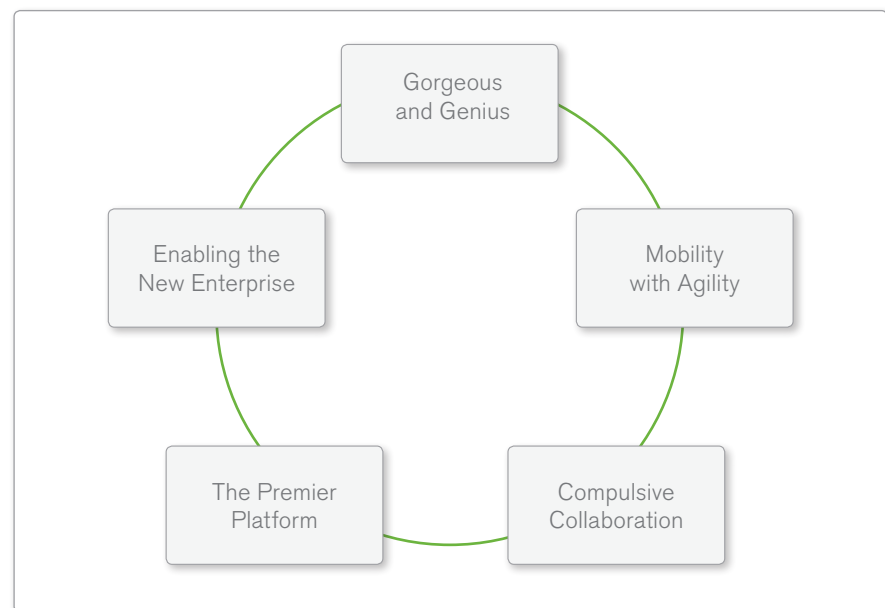
NATURAL ANALYTICS™

is the technology and design approach that makes the QlikView platform so powerful. It enables users to explore complex data, making and sharing discoveries using natural human abilities rather than artificially constructed techniques. *Natural Analytics* optimizes data structures, the analytical query engine, the interactive user experience, visualizations and collaboration. This enables and encourages browsing and exploration, categorization and other decision making processes tapping into the natural human ability to process complex information.

A Closer Look at QlikView.Next

In March 2012, we released the first wave of information about QlikView.Next, the code name for the next generation of the QlikView Business Discovery platform, spanning multiple releases. QlikView.Next leverages the core strength of QlikView's *Natural Analytics*™ technology. We built the strategy, planning, and software development around five major themes for QlikView.Next (see Figure 1).

Figure 1: The Five Themes of QlikView.Next



This white paper goes a bit deeper and discusses the specific scenarios we are focused on with QlikView.Next. For every capability we build, we are keeping in mind:

- **An understanding of what people need.** We are using these product scenarios as a way to anticipate how people will benefit from the capabilities of QlikView.Next. A product scenario is about capabilities, not implementation details. We'll talk about specific feature sets later in our software development lifecycle.
- **An understanding of who those people are.** We are using the concept of personas – fictional characters that represent people who share the same core characteristics, attitudes, and behaviors – to help us keep “for whom” in the forefront of our minds. Personas give us empathy for users and inject accurate information about real users into our product development efforts.

Gorgeous and Genius: The Best of Scandinavian Design

QlikView.Next will continue to win the hearts of QlikView business users and IT professionals alike with a user interface that is intuitive, natural, fun, and highly engaging and productive – regardless of whether a person is designing and building apps, using apps others have created, or deploying apps for enterprise use. Within the Gorgeous and Genius theme, we focus on three specific scenarios (see Figure 2), with a strong emphasis on giving business users the ability to perform ad hoc analysis.

Figure 2: “Gorgeous and Genius” Scenarios



VISUALLY BEAUTIFUL

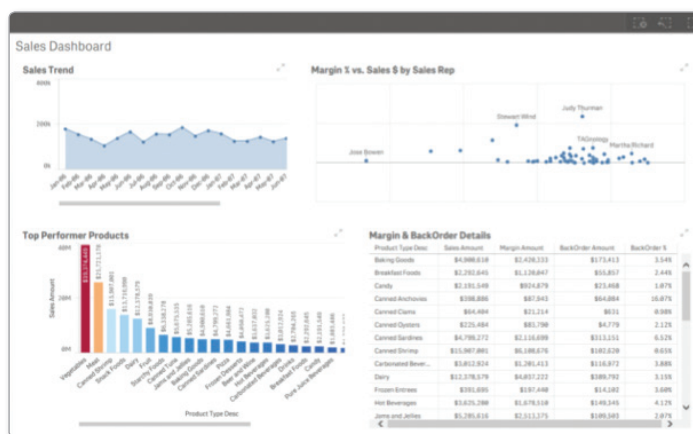
We want all interactions people have with QlikView.Next to be natural, easy, and comfortable. People should never be left wondering what is going on, or feel turned off by complexity. Within the “Visually Beautiful” product scenario, we focus on delivering a delightful and graceful experience for all types of users.

Our world-class user experience team is focused on creating an environment that is a calm, comfortable, and fun place to work. As users become more comfortable with QlikView, we will offer them more options and help them along to an even richer experience.

QlikView.Next will introduce new metaphors for user interaction and new techniques for creating data visualizations. Designers will be able to ensure consistent style and layout (look and feel) within an app by applying themes using a familiar style sheet-based approach.

- **Clean and Modern User Experience.** The most noticeable characteristic of QlikView.Next is the new user experience. The experience will be streamlined across all aspects of the product. User interface improvements will include improved graphics and design, simplified layout and navigation, redesigned user interactions, and “what you see is what you get (WYSIWYG)” printing of screens.
- **Advanced Data Visualization.** Data visualization is a critical first step in business discovery, allowing people to gain an understanding of information at a summary level. Of course, we feel that it is only the tip of the iceberg, as standalone visualizations are not enough to solve business problems. But with QlikView, visualizations are integrated into the associative experience, allowing for next steps and instant updates.

In QlikView.Next we will provide new visualization capabilities based on our acquisition of NComVA – an advanced data visualization suite for QlikView. There will be new, visually beautiful, intelligent charts and graphs with an increasing number of chart types moving forward.



ASSOCIATIVE, COMPARATIVE, ANTICIPATORY

QlikView already excels at helping people explore data and make discoveries by being able to see what data is associated and what data is *not* associated and to compare data sets side by side. We are also already seeing customers doing advanced analytics with QlikView 11 and integrating QlikView with languages like R.¹ So, we want to make advanced analytics capabilities directly accessible to business users themselves – not just to specialists – in the moments when they are engaged in decision making.

With QlikView.Next, we will focus on making core aspects of Business Discovery even more natural and familiar to business users as well as to people who are creating apps for their own or others' use. We will enable users to explore a broad range of associations and comparisons in a visually beautiful way. We will provide a base set of analytic options (algorithms) out of the box as well as native intelligence about data types (e.g., dates and times), which will make for an even more intuitive user experience. We will also enable our partners and customers to add additional capabilities to QlikView using an expanded notion of extensions that are not only visual but also provide logical extensibility within an app.

- **The Associative Experience.** The associative experience is core to QlikView, driving insight across all areas of the product. With QlikView.Next, the associative experience remains the glue that binds the experience together. The QlikView engine dynamically calculates views, presents information in green / white / gray, and instantly updates objects across the app to remain in context with selections.
- **Comparative Analysis.** Comparative analysis was an exciting new capability in QlikView 11. In QlikView.Next, comparative analysis will be available, as will a new 'compare' function in charts and graphs. This function makes it simple for a user to initiate comparative analysis wherever and whenever they want.
- **Drag and Drop Analytics.** With QlikView.Next, users will have the ability to develop analytics through simple drag and drop functions, in addition to navigating them and making selections. With QlikView, you can gain tremendous insight through the associative experience alone. However, in many cases users also want to extend apps, add or change objects, or create new visualizations. This capability speaks to the shift in roles we are seeing where more and more people are facilitating and sharing their analysis versus being just developers or consumers.

ONE CLIENT TO RULE THEM ALL

QlikView.Next will feature one client that will work equally well on tablets and laptop or desktop computers – both online and while disconnected. The “One Client to Rule Them All” product scenario will feature:

- **Unified, Browser-Based Client.** QlikView will now be delivered through a single, HTML5- based client. This is true for all aspects of QlikView, including analysis, development, and the QlikView management console. QlikView can be accessed on a server, or installed locally, but will leverage the same core technology for both types of deployment.
- **Use of modern web technology.** We are adhering to the HTML5 and CSS3 standards, which are commonly used to create and deliver content on the web. Many of the world's largest web content providers (e.g., Apple, Facebook, and Google) follow these standards as well. Use of modern web technology will take advantage of the capabilities of modern web browsers.
- **Optimization for the device.** The QlikView.Next client will adjust automatically to take advantage of the capabilities of the user's device. We are focused on new interaction paradigms that work across devices ranging from desktops to touch-based interfaces.

Standardizing on a single client will make it easier and faster for developers to create apps, give business users a consistent user experience across all devices and platforms, and simplify deployment and security management for IT professionals.

Mobility with Agility: Being Ready for Any New Situation

The “Mobility with Agility” theme is about users having access to Business Discovery from any device. We are designing the QlikView.Next user experience starting with a mobile and touch interface, rather than developing a desktop experience and then modifying it to work on tablets and smartphones. We are focused on truly agile use of mobile devices for Business Discovery, enabling people to ask and answer new questions while in new situations and contexts out on the road. And of course, the mobile user experience will include the Gorgeous and Genius user experience offered by QlikView.Next. Beyond this, the “Mobility with Agility” theme focuses on two new scenarios (see Figure 3).

Figure 3: “Mobility with Agility” Scenarios



OPTIMIZED FOR MOBILITY

Our approach with QlikView.Next is to create an experience that is equally as rewarding on touch and mobile devices as it is on desktops and laptops. We seek to enable the mobile worker to have the same power as the PC. We view touch devices not just as tablets, but as all forms that may come in the future (large and small). QlikView.Next retains the same consistent experience and capabilities across devices, which allows for seamless transitions for users.

- **Built for Touch Interactions.** QlikView.Next is built from the ground up for touch interactions. You can still use a traditional mouse and keyboard, however, there is no longer a limitation to what you can do with touch or how the experience performs.

- **Dynamic Screen Resizing.** When we first introduced QlikView on Mobile, one of the core design principles was a 'build once deploy anywhere' approach. And it was true that you could build a single app and access it on multiple devices with no additional development. However, the user experience wasn't always ideal for the screen size of the device you were using. Now, with a new grid based approach, QlikView.Next allows for automatic and intelligent resizing of objects to fit whatever screen is being used.



FULL BUSINESS DISCOVERY ON MOBILE

Our overall strategy is HTML5-based, meaning that the QlikView server powers the experience. We are extending this approach in the next generation with not only unrestricted analysis on mobile devices, but also to development and administration capabilities. This approach will also facilitate collaborative application development in a more natural way than client-based development.

- **Server-Side Analysis and Development.** With QlikView on Mobile, we have always stressed the importance of having the full business discovery experience available. This means unrestricted exploration and not static, pre-defined reports. With QlikView.Next we are taking this a step further by allowing all aspects of QlikView to be used on a mobile device, including development and administration capabilities. Users and developers will be able to do their work anywhere, on any machine – including tablets – and move among machines to get their work done.

Compulsive Collaboration: Many Ways to Make Music Together

There are many ways to collaborate. Think about people making music together. A few jazz musicians go off on a riff, improvising around a loose theme. A conductor works guides an orchestra and choir to deliver their best performance. A string quartet plays a complex piece, each musician with his or her own carefully-prescribed role. A recording artist mixes tracks laid down by various musicians at different times and integrates them together into a cohesive whole.

Business intelligence (BI) is similar. BI and collaboration are inseparable; decision making is by nature a collaborative activity. So with the “Compulsive Collaboration” theme, we are working on collaboration capabilities that are so natural and easy that people can’t resist using them. QlikView.Next will put QlikView at the forefront of users’ shared decision making by focusing on two scenarios (see Figure 4).

Figure 4: “Compulsive Collaboration” Scenarios



A NEW POINT OF ACCESS

With the “A New Point of Access” scenario, we are refining the concept of a “hub” – an entry point for users to begin their exploration, analysis, and collaboration. A New Point of Access will be QlikView itself; users will no longer go to a separate portal to find apps and content that may be of value to them.

From the central hub, users will be able to find and discover what’s interesting to them – not just the apps to which they have access, but info about which of the streams or feeds they subscribe to have been updated. The same QlikView hub will be the place users go to share, publish, subscribe to, comment on, and search for QlikView insights generated by others. The result? Higher productivity and better decisions.

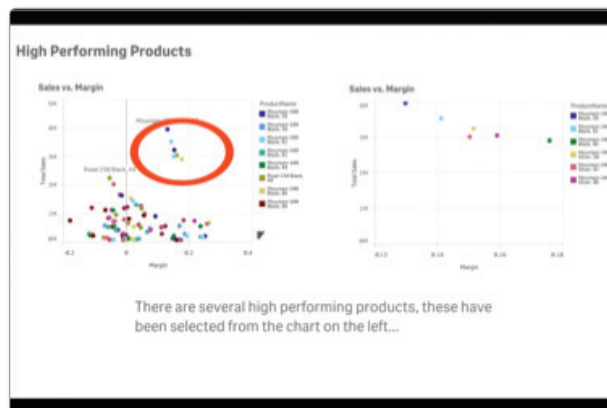
- **The Hub.** The Hub is the central area of QlikView that allows users to navigate, search for, share, and follow objects such as apps, sheets, and stories. It serves as

a place to both share and discover that will allow users to follow apps, sheets, and stories, discover relevant content, and publish and share objects on a stream.

COMMUNICATE YOUR INSIGHTS

The “Communicate Your Insights” scenario enables QlikView users to more easily share their insights with others – even those beyond their QlikView hub (see the “A New Point of Access” scenario on page 11). People have always used anecdotes and metaphors – stories, in essence – to explain a situation or experience so others can internalize it, act on it, and pass it on. These stories are grounded in truth, which comes from information. This scenario will also help our customers extend the value of a QlikView chart, graph, or other visualization, or QlikView story, by enabling people to see it in the context of other applications.

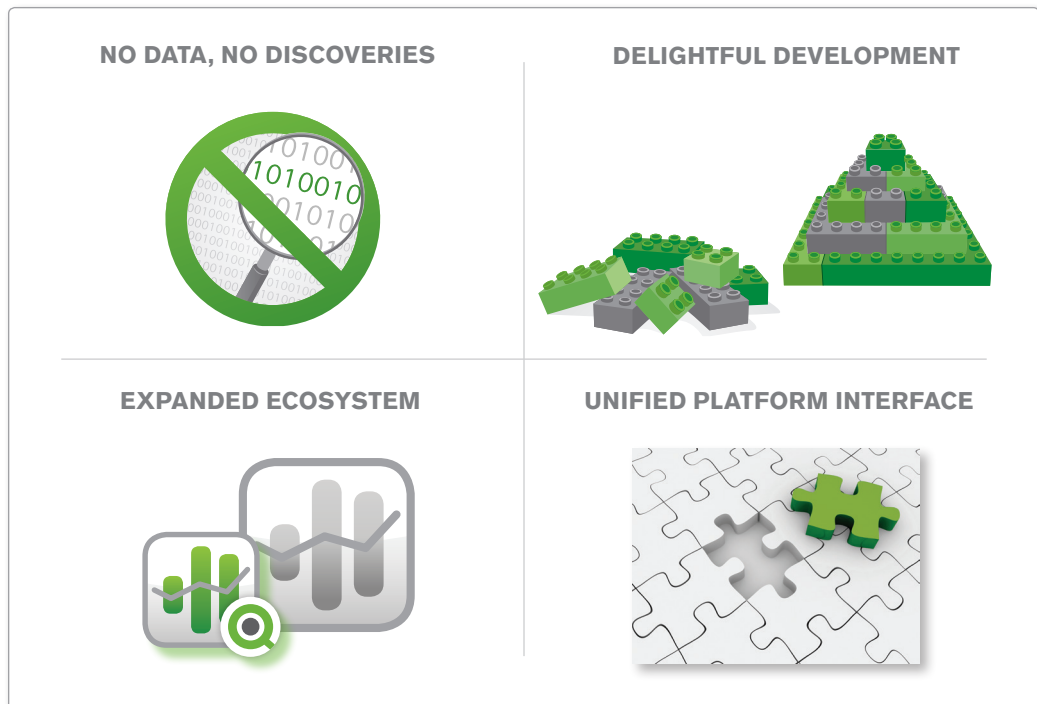
- **Data Storytelling.** Data storytelling is a compelling new capability in QlikView.Next. It allows users to create and communicate insights by putting snapshots of objects on pages. These objects retain the data from the date and time the story was created, and you can click through the objects to get the live versions for further analysis. Users can take snapshots of objects, add them to pages, add external content, stylistic elements, and commentary, and organize pages into a story for communication.
- **It’s all about narrative.** Data storytelling is all about narrative. It is about reducing information overload, unlocking the hidden stories in data, and sharing insights and discoveries in an engaging and convincing manner. Data storytelling will make it easier for people to justify business decisions, sell their proposed decisions to others, and explain to others why a decision has been made. It will help people not only make decisions but also decide what to do next after a decision has been made.
- **Users create and share.** With data storytelling, QlikView.Next users will be able to combine interactive data visualization techniques with descriptive text to build a comprehensive story and then share this story with others. A story, in this context, is a cohesive narrative that instructs or interests the recipient of the story and shows what, why, where, and when something happened. We envision that a recipient of, or participant in, a story may ask questions at any time and the story will highlight or reveal the answers. Alternatively, the recipient or participant can get answers by searching or making selections in the QlikView app.



The Premier Platform: A Developer's Dream

The Premier Platform theme is about enabling our customers and partners to quickly and easily deliver apps and solutions that are perfectly relevant to their constituents (see Figure 5). We are investing in QlikView as the heart of an ecosystem, facilitated by the Qlik Market online solution exchange.ⁱⁱⁱ

Figure 5: “Premier Platform” Scenarios

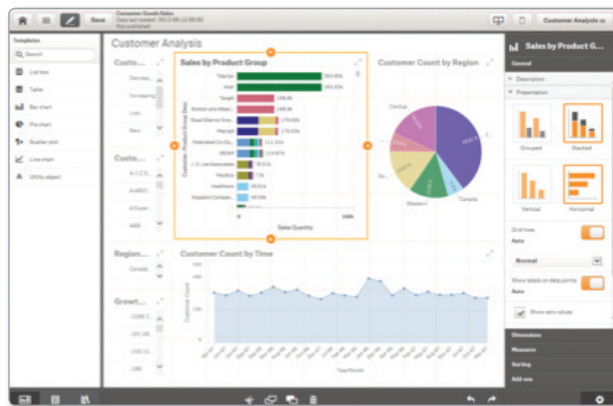


DELIGHTFUL DEVELOPMENT

This product scenario focuses on people who are designing and building QlikView apps and integrating QlikView with other systems – whether they are creating their very first app or are experienced developers with data integration expertise. The “Delightful Development” scenario is all about:

- **Browser-Based Development.** QlikView apps are now developed using a completely browser-based environment. You no longer need to have a Windows application installed in order to develop in QlikView, as it can be done via any supported browser on any platform or device. We will provide a modern developer experience and interface with an emphasis on drag-and-drop and easier, more intuitive development using approaches such as grids and reusable objects.

- **Library and Repository.** QlikView.Next includes the concept of a library, where UI objects (including any custom extensions that were built), measures, dimensions and expressions can be exposed to users who are building their own QlikView apps. Administrators can determine which individuals or groups can access any particular object(s), enforcing control and governance.
- **Simplicity and reusability.** We want to optimize developers' productivity by making it easy for them to reuse components and develop solutions that extend, customize, and integrate QlikView with other software on a variety of platforms.
- **Standards-based development.** We are designing QlikView.Next on the principle that it should be open and extensible. We will provide a standards- and web-based development environment and a set of well-documented development tools and APIs (application programming interfaces).



NO DATA, NO DISCOVERIES

QlikView is already the ideal platform for exploring data, including Big Data, with connectors to Google BigQuery, Hadoop, and other data sources either directly or through our partners. The “No Data, No Discoveries” product scenario focuses on technically-oriented QlikView app developers who are connecting to data sources, processing data, and loading data into QlikView so non-technical users can create and consume analysis. This scenario focuses on:

- **Simplified Multi-Source Data Integration.** QlikView.Next continues the tradition of being able to easily access data from multiple sources for the purpose of providing a single, associative view into your data. QlikView.Next provides web-based scripting that includes search and replace, auto-complete, drag-and-drop connection strings, and a configurable preview pane.
- **QlikView Expressor.** Expressor Software was acquired by QlikTech in June 2012. It provides advanced graphical data integration and metadata management for QlikView. With QlikView Expressor and QlikView.Next, enterprises can standardize data definitions and metadata across multiple QlikView deployments and environments.

- **Direct Discovery.** Although traditional business intelligence or visualization engine vendors allow either the analysis of in-memory or data warehouse sources, QlikView delivers both types of sources in a single analysis. Direct Discovery can link data already loaded in memory with 'Big Data' sources for rapid visual analysis. Users get QlikView's associative experience across all the data, regardless of whether or not it resides in memory.

UNIFIED PLATFORM INTERFACE

The “Unified Platform Interface” product scenario focuses on our partners' and customers' technically-oriented developers. This scenario focuses on providing API's for customizing the QlikView experience. These API's will be a superset of the APIs we offer today in QlikView 11. In fact, they will be the same exact API's we are using to build QlikView.Next ourselves. With QlikView.Next it will be easier for developers to learn to work with the QlikView API's because it will be based on standard conceptual and technical models.

- **Open APIs.** With QlikView.Next, a complete and standardized set of API's will be made available, using commonly-accepted industry standards such as JSON^{iv}, .net SDK, and JavaScript. Even very low-level calls to the QlikView engine will be exposed via API's, these same API's that QlikTech engineers use themselves to build QlikView.

By exposing these API's, we allow our customers and partners to build the most relevant analytics solutions possible for their (or their customers') needs. They can customize QlikView to a very great degree, as well as extend the power of QlikView beyond just the interface that is provided out of the box. Extending QlikView to custom web-portals or web-based products is very straightforward now, opening up opportunities for OEM's and customers.

- **Everything is an Extension.** In QlikView.Next, everything that ships with the product user interface (UI) uses the same technology as extension objects. This means that users can customize and edit every UI object that ships with QlikView in a straightforward an open-standard-driven manner. Every object contains source files that a developer can manipulate in order to produce a customized object.

EXPANDED ECOSYSTEM

The “Expanded Ecosystem” product scenario focuses on QlikTech partners and OEM's (original equipment manufacturers). This scenario aims to make it even easier for QlikTech partners to create and distribute QlikView analytic capabilities.

- Qlik Market^v is QlikTech's online marketplace for distribution of primarily partner developed extensions, connectors, and purpose-built applications. Qlik Market provides customers a simple way to evaluate and acquire the useful technologies and applications that leverage the QlikView Business Discovery platform. Qlik Market fosters connections between partners and customers, while extending the value of QlikView.

Enabling the New Enterprise in the Age of Empowerment

With the “Enabling the New Enterprise” theme of QlikView.Next, IT pros will be able to optimize their QlikView environments and offer self-service Business Discovery to growing numbers of users while utilizing ever-growing volumes and variety of data (see Figure 6). This theme is about making security, user management, availability, and scalability easily manageable by any customer, not just the largest ones. We want to make QlikView extremely easy to administer and give administrators the same kind of gorgeous and genius experience other users experience.

Figure 6: “Enabling the New Enterprise” Scenarios



GLOBAL DEPLOYMENTS

Globalization is trickling downstream; it's no longer just the largest enterprises that have people around the globe who need to work together. A geographically distributed workforce is now common even in small companies. We are focusing the “Global Deployments” scenario on delivering cross-geography clustering (ensuring higher availability) and software licensing to support this way of working.

- **Enterprise Architecture for Business Discovery.** QlikView.Next will bring a new underlying architecture for QlikView, designed from the ground up to support enterprise class Business Discovery. It will support the needs of both small and large organizations, leveraging simplified and modern deployment technologies that enhance multi-geo and multi-datacenter deployments and simplify failover and redundancy.

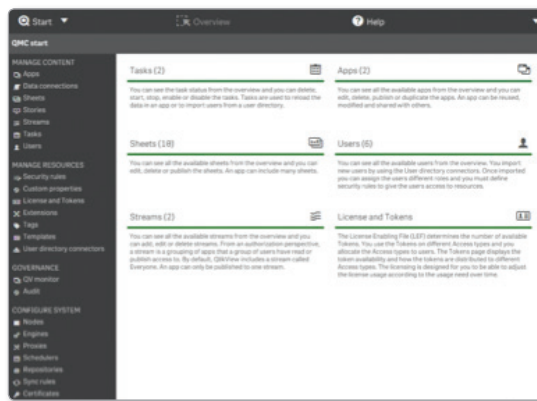
We will also provide tools and documentation to make it easier for system administrators to recover QlikView servers when a machine fails and another one needs to start up. One particular area we are focusing on is hardware virtualization.

IMPROVED IT MANAGEMENT

With the “Improved IT Management” scenario, we are re-imagining the user experience for IT professionals. We are focused on making it easier for IT pros to manage users and licenses regardless of whether the deployment covers ten or tens of thousands of users, is in a single or multiple geographies, or has one app or hundreds.

- **User Friendly Management Console.** QlikView.Next brings a brand new, redesigned management console for IT professionals tasked with administering a QlikView deployment. We built the management console for touch interactions, simplicity, and clarity of information delivery. It is a ‘one-stop-shop’ for configuring, monitoring, and managing QlikView deployments, including “QlikView on QlikView” capabilities, a new tagging paradigm, and custom profiles for administrators.

“QlikView on QlikView” monitoring capabilities offer a QlikView interface within the management console for embedding a QlikView app that will enable IT professionals to monitor the health of their environments and identify problem areas and opportunities where they can take proactive action.



SAFE AND SECURE

The “Safe and Secure” product scenario is about making QlikView security management simple for administrators to understand and configure according to their organization's policies and compliance requirements.

- **Simplified, Centralized Security.** With QlikView.Next, we've simplified the approach to providing security for apps and data. A single security rules engine handles security of apps, servers, and users. For data security, the ‘Section Access’ approach (dynamic data reduction) remains in place and tied to existing 3rd party security authorization. A new concept called ‘Streams’ allows for the creation of security-related environments whereby apps, servers, users, etc. can be ‘placed,’ thereby assigning the correct security privileges automatically based on the rules of the stream.

- **Support for emerging security technologies.** Through extensible interfaces to the security system we are encompassing for easy integration of emerging security technologies into the QlikView platform.

STREAMLINED APPLICATION DEPLOYMENT

The “Streamlined Application Deployment” product scenario will make it easier to build and deploy QlikView apps. This scenario focuses on making it easier for developers, testers, and approvers to move QlikView applications through the development, test, validation, and production lifecycle in a simple and straightforward way. QlikView users will be able to more easily push QlikView applications into a workflow and through the deployment process.

REDEFINED LICENSING

QlikView.Next will offer a simplified, redefined license model. This model will be based on tokens, and will allow enterprises to adjust and optimize their consumption, providing greater flexibility for IT. More information on licensing will be made available as the product gets closer to general availability.

QlikView.Next: Simplifying Decisions for Everyone, Everywhere

QlikView.Next is the code name for the next generation of the QlikView Business Discovery platform, to be delivered over multiple releases. With QlikView.Next, we are intent on putting in the hands of our customers a product that is gorgeous and genius, puts full Business Discovery at users’ fingertips anytime and anywhere they need it, and supports the naturally collaborative way people make decisions. We will make it easier than ever before for technical QlikView users – designers, developers, and administrators – to create analytic apps and manage QlikView as a service for a broad range of users.

The scenarios we’ve described in this paper explain at a high level how we intend to do this. As we move through our software development lifecycle we will be excited to share more details about the specific product capabilities that will bring these scenarios to life. Stay tuned!

Appendix

RELATED WHITE PAPERS

Why IT Organizations Can't Live Without QlikView, November 2012
<http://bit.ly/1gyRXQ3>

QlikView and Big Data: Have It Your Way, November 2012
<http://bit.ly/19e0DbS>

Social Business Discovery: Optimizing Decision Making, October 2011
<http://qlik.to/nUvmR4>

QlikView on Mobile: Beyond Reporting, October 2011
<http://qlik.to/yJgxHz>

What Makes QlikView Unique, August 2011
<http://qlik.to/pftOZn>

RELATED BLOG ARTICLES

"Consumerization Revisited – Why Aesthetics Matter," James Richardson, April 18, 2013
<http://bit.ly/1a4aPox>

Video: "BI For The Right Side of the Brain," Donald Farmer, March 14, 2013
<http://bit.ly/1epi0MQ>

"QlikView.Next in Donald Farmer's Own Words," August 8, 2012
<http://bit.ly/PJqSvi>

Video: "The Business Discovery Difference with Donald Farmer," July 19, 2012
<http://bit.ly/MstfnL>

"Donald Farmer's Take on Business Discovery," July 26, 2011
<http://bit.ly/pLbNuU>

End Notes

- ⁱ For more about QlikView integrated with the open source predictive analytics platform called R, see the April, 2012 Business Discovery Blog post and video, "The Main Barrier for Adoption of Predictive Analytics: Business User Capabilities," at <http://bit.ly/Jps5eH>.
- ⁱⁱ HTML5 is the latest published version of the publishing language of the web. CSS3 is the latest published version of the Cascading Style Sheets language for describing the look and feel of web pages. For more information about HTML5 see the W3C website at <http://www.w3.org/html/wg/> and for more information about CSS3 see the W3C website at <http://www.w3.org/Style/CSS/>.
- ⁱⁱⁱ Qlik Market is an online site where QlikView customers can find applications, connectors, and extensions for the QlikView Business Discovery platform.
- ^{iv} For more information about JSON see the website <http://www.json.org/>.
- ^v To learn more about Qlik Market, visit <http://market.qlikview.com/>.