SureView Analytics 6.1.0 Release Notes
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--------- IMPORTANT NOTE REGARDING DOCUMENTATION ---------

The Installation guides, Quick Start Guide, and Help for this release remain the same as version 6.0.1. Any changes to the steps to install or functional changes will be detailed in these Release Notes. Therefore, please review this document in its entirety for special instructions/changes. In the case of conflict with any other document, the Release Notes take precedence.

This document includes:

- Important Note for Linux Installations
- Important Note Concerning a VBase Restore Issue
- Changes in this Release
- Installation Notes
- Issues Fixed in this Release
- Known Issues

--------- IMPORTANT NOTE FOR LINUX INSTALLATIONS ---------

During an installation on a Linux operating system, the value for the Maximum Memory Allocation is not properly written to the Server startup script. The default allocation is 85% of available memory, but the value written to the Linux server script (SureViewAnalyticsServer.sh) is only 2048MB, regardless of what was selected during installation. This also affects the SureView Analytics Server service.

WORKAROUND: After the installation completes, edit the SureViewAnalyticsServer.sh script and set 'MAX_MEM64' to the desired value. Save and restart the service.

This is a known issue (SVA-700) that will be resolved in a future release.

--------- IMPORTANT NOTE CONCERNING A VBASE RESTORE ISSUE ---------

Restoring a VBase from SureView Analytics 6.0.0 causes the interface for the Client and Admin Center to retain some of the dark style from 6.0.0.

WORKAROUND: If the darker interface elements are acceptable, the normal VBase Restore method may be used. The benefit of this is that all VBase resources are carried over.

If the complete conversion to the version 6.1.0 interface is required, the

following steps must be taken. NOTE: This will not carry over every VBase
resource, but will import the Users, Models, Data Sources, Desktop Templates
and User List resources.

1. When upgrading from SureView Analytics 6.0.0 to 6.1.0, the
   resources can be exported separately as per the steps detailed in
   Section 3.1 of the SureView Analytics Installation and Configuration
   Guide. Make note of the Domain from which these resources were exported.
2. Ensure these exported resources are backed up to a secure location for
   later import.
3. Configure the initial VBase.
4. When the Admin Center application is shown, restore the resources that
   were exported in step 1.
   IMPORTANT: Make sure that these resources are imported into the same
   domain from which they were exported.

This is a known issue (SVA-705) that will be resolved in the next release.

--------- UPDATE TO PROCEDURE TO IMPLEMENT CUSTOM JAR FILES ---------

The below instructions replace the entry in the Help under the title
'Create Custom Disambiguator Functions'.

Throughout this example, the custom jar file will be called 'MyCustomFunction.jar'
and the Custom function will be called 'My Click Handler'.

1.   The jar file must be signed with a code-signing certificate. This is a
requirement that Oracle has implemented for security reasons.
2.   Place the jar file on the SureView Analytics Server in a directory
accessible
to the SureView Analytics service, A typical location is the main webapp directory,
for example:
./SureViewAnalytics/tomcat/webapps/SureViewAnalytics/MyCustomFunction.jar
3.   Edit the /SureViewAnalytics/serverresources/ServerResources.properties file
and add the path to the file names in this property, delimited by a semicolon
(below is an example – these are relative paths to the SureView Analytics Server):

        ## Custom Function Java Compiler CLASSPATH (place any external jar file
        dependencies here)
        CustomCompileJavaSource.classpath=./serverresources/drivers/jconn2d.jar;

./serverresources/drivers/ojdbc14.jar;./commonresources/lib/stax-api-1.0.jar;
        ./commonresources/lib/wstx-asl-2.9.3.jar;./clientresources/jdic/jdic.jar;
        ./tomcat/webapps/SureViewAnalytics/MyCustomFunction.jar

4.   Edit the /SureViewAnalytics/tomcat/webapps/SureViewAnalytics/resources.jnlp
file and add a reference to your custom jar files.

```
    <!-- =====================================================================`
 Add user-defined custom-code jars here
 ================================================================ -->
  <!-- To add additional jar files for your customized code, uncomment and
      change the jar file names, below, to match the name of your signed jar
      files.  -->
  <jar href="MyCustomFunction.jar" part="userJars" main="false" />
  <!--  <jar href="userJar1.jar" part="userJars" main="false" /> -->
  <!--  <jar href="userJar2.jar" part="userJars" main="false" /> -->
```

5.   Restart the SureView Analytics Server
6.   Log on to the Client or Administrator to bring up the Model Editor
7.   In the target model, create and publish a custom function that relies upon
the custom jar file; the name of this function will be the name that will appear
in the Click Handler drop-down.
8.   Once this function is published apply the 'Assign a Client-side Click Handler'
function. The custom function created in Step 7 should appear in this drop down
for assignment.

--------- CHANGES IN THIS RELEASE ---------

The SureView Analytics 6.1.0 release contains the following updates:

- A new setting was added to the Data Source - Advanced tab to pass in the 'N'
Unicode
prefix to support passing values properly to NCHAR, NVARCHAR, and NTEXT columns.
Setting this checkbox will prefix all string queries with this prefix
(e.g SELECT * from mytable WHERE mytable.name = N'Unicode_Value').

--------- INSTALLATION NOTES ---------

--- SUPPORTED PLATFORMS ---------

The SureView Analytics 6.1.0 release can be installed on Windows and Linux
platforms.
The Server installation is supported on 64-bit systems only. The Client
Starter applications can be installed on 32-bit or 64-bit systems.

Please see the "SureView Analytics Installation & Configuration Guide" for complete
details on system requirements.

--- JAVA REQUIREMENT ---------

The Server installs with the appropriate Java version (version 7, update 45).

All machines that will run a Client component must have the Java Runtime
Environment Plug-in Version 8, Update 71 or higher, installed.

--- LICENSING FOR SUREVIEW ANALYTICS 6.1.0 ---------

All installations of the SureView Analytics 6.1.0 release require a 6.1 license.
Even if
you are upgrading from 6.0.0 or 6.0.1, you will require a new license. If you are
upgrading from a 5.x version, you will require a new license.

After installing the software and launching the SureView Analytics Server, please
note
the Host ID presented, send an e-mail request to svalicense@forcepoint.com,
and indicate the Host ID and environment parameters SureView Analytics version
[6.1.0],
user licenses, etc.).

Please refer to the "SureView Analytics Installation & Configuration Guide" for
complete details on installing or upgrading.

--- ENCRYPTED LOGIN ---------

SureView Analytics 6.1.0 requires HTTPS for login.
The installer may choose to also enable HTTP login, but this option is not
selected by default.

When HTTP is disallowed, the URL on all login pages must use
https://<Server-Name> (localhost is not allowed over HTTPS).

Depending on your environment settings, you may be able to ignore security
warnings and access the SureView Analytics client components without further
action.

However, in some environments this is not possible. And, in environments
where it is possible, it is best to configure the environment properly. There
are two options for configuring the HTTPS environment. You may choose to use a
a Certificate Authority to create the required material, or you may choose to
distribute the SureView Analytics Server's self-signed certificate to users for
import into their operating system certificate stores/browsers to remove the
security warnings shown by browsers when accessing a non-trusted server.

Please refer to the "SureView Analytics Installation & Configuration Guide" for
complete details on importing the certificate.

--- UPDATING THE SUREVIEW ANALYTICS AUDIT MODEL ---------

In SureView Analytics 6.1.0, the audit model is named 'SureViewAnalytics_Log', located in the Analysis Net domain under the Administrator account. If a VBase Restore is done from a previous version, the old audit model will be present here (named 'VisuaLinks_Log'). To update to the new model after a VBase Restore, delete the old 'VisuaLinks_Log' model and manually load the 'SureViewAnalytics_Log' model from within the Administration – Models panel under the Server Backup/Import tab. Choose Load Models from Server and select the new model.

--- SELECT ONLY THE DEFAULT OR ADVANCED INSTALLATION TYPE ---------

During the installation process, select ONLY the 'Default - SureView Analytics Server' or 'Advanced Installation' option. Selecting one of the other options may cause the installation to fail.

--- SPLUNK REQUIREMENTS ---------

To access Splunk data from SureView Analytics 6.1.0, you must have an existing Splunk server.

SureView Analytics includes the free, trial UnityJDBC driver. This trial driver distribution is limited to returning only 100 rows per query. To remove this restriction, you must purchase the registered version from UnityJDBC. The registered version removes all restrictions and provides premium support from the UnityJDBC team. For more information, please visit the UnityJDBC website (http://www.unityjdbc.com).

Date and time queries are not supported in this version. These queries will be supported in a future version.

Refer to the "Splunk Sources/Models" entry in the Administration WebHelp for complete details on configuring the Splunk data source. To access this entry, open the Admin Center, and then select Help > Administration Help from the top menu. The "Splunk Sources/Models" entry is under "System Administration".

--- MAC OS INSTALLATION FAILURE ---------

Due to an issue with the installer, SureView Analytics 6.1.0 installations on Mac OS X systems will fail. This issue has been documented as a Known Issue (SVA-650).

--------- ISSUES FIXED IN THIS RELEASE ---------

SVA-51
Attributes with Lat/Long Geospatial functions no longer require the name for these attributes to be 'Latitude' or 'Longitude' to work properly; the names can be any text and they will populate into the Geo Search properly.

SVA-204
Relationship Path Discovery - Shortest Path properly returns the results if multiple

end points are selected.

SVA-246 (DC-670)
Custom Disambiguator Functions that use Custom jar files work - please refer to the updated instructions in these notes on the new method to implement these jar files.

SVA-554
Admin Center - VBase Backup Calendar modifications no longer unsets the Auto-VBase setting.

SVA-590
Search Profile feature applies previous entries when profiling multiple attributes.

SVA-653
Status messages generated by the automatic Text Indexing of data loaded in Desktop Load are only sent to the relevant user.

SVA-673
Disambiguator Function Google Maps Geo-coder function properly resolves the coordinates for the address.

SVA-691
Details Report Memo properly renders international character sets.

SVA-695
Time Line Settings Grouping Attribute has no attribute selected by default, as expected.

SVA-699
VBase Backup files that contain a large amount of users are handled more efficiently and no longer cause the server to potentially crash in low-memory environments.

SVA-702
Relationship Path Discovery involving merged objects properly resolves the expected paths.

SVA-704

SureView Analytics Server batch file properly starts the server.

SVA-706
Model WHERE Clause passes in the User Properties into the SQL generated for the
services, with the exception of the Text Search/Faceted Search.

SVA-708
Entity Extraction (Regex) has the default values and editing or creating new
entities works properly.

SVA-709
Editing a label in the View that has previously been edited shows the current label
in the pop-up dialog.

SVA-710
API call that retrieves the count of selected objects returns the proper objects
count.

SVA-712
Disambiguator Function 'Add Object Draw State Using Custom Icon' can display
multiple
icons in the View.

SVA-713
Modeler Object and Association Editor feature that allows defintion of the Color and
Style allows entry of the values to define the way the View is rendered.

SVA-714
Unicode characters are properly retrieved from NVARCHAR, NCHAR and NTEXT columns;
a new setting was added to the Data Source - Advanced tab to alter the SQL generated
for string queries.

SVA-716
Google Maps - Select Object drop-down allows navigation to the selected object on
the
map.

--------- KNOWN ISSUES ---------

SVA-49
When the installer launches, the User Account Control warning displays the
publisher as Unknown.

SVA-50
When creating the SureView Analytics system service, the installer erroneously
performs a check for the vlpostgresql service and fails to create the
SureView Analytics system service if the PostgreSQL service is not found. In

this case, you can create the system service manually.

SVA-85
The Installer intermittently fails to create the databases
for the VBase components. WORKAROUND: Create the databases manually
as per the Installation Guide, ensuring that the proper PostgreSQL extensions
are added.

SVA-209
If an existing user is designated during installation, that user must belong
to a valid group. If that user does not belong to a valid group, a
chown: 'user1:user1': invalid group error is thrown.

SVA-231
Installer does not allow user account creation with a 16-character or more
password.

SVA-271
In Java 7 updates 55 and higher, there can be a problem when both the 32-bit
and 64-bit versions of the plug-in are installed. In this case, launching a
client component from a 32-bit browser will fail. You can work
around this problem by:
- Launching the client component from a 64-bit browser,
- Using Java update 45 or 51, or
- Removing the 64-bit plug-in to use the 32-bit version exclusively

SVA-274
Using the IP address of the server machine instead of the host name during
the installation causes the services to not be created properly. Use the
host name instead of the IP address.

SVA-309
The currently supported third-party entity extractor, Rosoka, sometimes
inconsistently extracts entities, depending on the version used.

SVA-335
Restoring the VBase in a clustered environment fails when executed from the
Admin Center. To avoid this failure, shut down all but the primary (or
working) cluster node server before restoring the VBase.

SVA-585
Unable to Search Date values using Splunk.

SVA-637
Using the Integrated Trust Model for HTTPS communication (Chapter 6
in the Installation and Configuration Guide), the Administration application
is unable to import root certificates into the VBase to support Certificate
Revocation List (CRL) checking. This results in HTTPS requests to the SureView

Analytics Server displaying a security warning indicating the connection to this website is untrusted because the browser cannot determine if the certificate has been revoked or not. This only affects the Integrated Trust Model; the Standard Trust Model is the recommended way to provide SSL verification, in which the organization provides the certificate and the infrastructure to support it.
WORKAROUND: Select Continue when this security warning is displayed.

SVA-638
Report Templates in the Client have references to 'Data Clarity' and other older content.

SVA-643
The installation program allows entering an IP address during the install, but this prevents HTTPS connections to the server.

SVA-650
Installer for the Mac operating system fails When running the installer. It does not detect that the user initiating the installation has sufficient privileges, even if the user escalates to 'root'.

SVA-700
During an installation on a Linux operating system, the value for the Maximum Memory Allocation is not properly written to the Server startup script. The default allocation is 85% of available memory, but the value written to the Linux server script (SureViewAnalyticsServer.sh) is only 2048MB, regardless of what was selected during installation. This also affects the SureView Analytics Server service.
WORKAROUND: After the installation completes, edit the SureViewAnalyticsServer.sh script and set 'MAX_MEM64' to the desired value. Save and restart the service.

SVA-705
Restoring a VBase from SureView Analytics 6.0.0 causes the interface for the Client and Admin Center to retain some of the dark style from 6.0.0.
WORKAROUND: If the darker interface elements are acceptable, the normal VBase Restore method may be used. The benefit of this is that all VBase resources are carried over.
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SVA-711
Google Maps feature does not work on Windows 10.

SVA-715
Google Maps Search field does not work. This field searches Google, not the data itself, and is not crucial to show model data.

SVA-717
When using Relationship Path Discovery with the Summary dialog, in certain circumstances the 'End Key' is not reported properly for the specific path.

SVA-718
Text Search and Faceted Search does not support a complex Model WHERE Clause.

SVA-719
View Filter - Facets does not support a 'Long' data type. It causes the Facets to fail and all other use of this feature to fail during that login.
WORKAROUND: Apply the Disambiguator Function 'Convert to Double' to all attributes that are a 'Long' Java data type (e.g. 'bigint' data type in the database)