

Configuration File Changes

Sitecore Experience Platform 8.1 Update 2

1.1 Config file changes in Sitecore 8.1 rev. 160302 (Update-2) compared to Sitecore 8.1 rev. 151207 (Update-1).

This update requires you to make changes to the following files:

- `Web.config`
- `App_Config\Sitecore.config`
- `App_Config\MimeTypes.config`
- `App_Config\Commands.config`
- `App_Config\Include\Sitecore.Buckets.config`
- `App_Config\Include\Sitecore.Analytics.config`
- `App_Config\Include\Sitecore.Analytics.MarketingTaxonomy.config`
- `App_Config\Include\Sitecore.Analytics.MarketingTaxonomyCD.config.disabled`
- `App_Config\Include\Sitecore.Analytics.Tracking.config`
- `App_Config\Include\Sitecore.MarketingReportingRole.config.disabled`
- `App_Config\Include\Sitecore.MarketingProcessingRole.config.disabled`
- `App_Config\Include\Sitecore.Marketing.Definitions.MarketingAssets.Repositories.config`
- `App_Config\Include\ContentTesting\Sitecore.ContentTesting.config`
- `App_Config\Include>ListManagement\Sitecore.ListManagement.config`
- `App_Config\Include\ExperienceAnalytics\Sitecore.ExperienceAnalytics.Aggregation.config`
- `App_Config\Include\ExperienceAnalytics\Sitecore.ExperienceAnalytics.Client.config`
- `App_Config\Include\ExperienceAnalytics\Sitecore.ExperienceAnalytics.WebAPI.config`
- `App_Config\Include\ExperienceAnalytics\Sitecore.ExperienceAnalytics.StorageProviders.config`
- `App_Config\Include\ExperienceAnalytics\Sitecore.ExperienceAnalytics.Reduce.config`
- `App_Config\Include\Z.SwitchMasterToWeb\SwitchMasterToWeb.config.example`

Some small changes (whitespaces, quotes, apostrophes) were fixed in the following files:

- `App_Config\Include\Sitecore.WebDAV.config`
- `App_Config\Include\Sitecore.ContentSearch.config`
- `App_Config\Include\Sitecore.ContentSearch.Lucene.DefaultConfiguration.config`

Depending on the search provider that you are using, you should also update the following files:

Lucene

- `App_Config\Include\ContentTesting\Sitecore.ContentTesting.Lucene.IndexConfiguration.config`

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Solr

- `App_Config\Include\Sitecore.ContentSearch.Solr.DefaultIndexConfiguration.config.example`
- `App_Config\Include\ContentTesting\Sitecore.ContentTesting.Solr.IndexConfiguration.config.disabled`
- `App_Config\Include\ListManagement\Sitecore.ListManagement.Solr.IndexConfiguration.config.disabled`

In this update, the following configuration files have been added:

- `App_Config\Include\ContentTesting\Sitecore.ContentTesting.ApplicationDependencies.config`
- `App_Config\Include\ContentTesting\Sitecore.ContentTesting.Client.RulePerformance.config.disabled`
- `App_Config\Include\ContentTesting\Sitecore.ContentTesting.PreemptiveScreenshot.config.disabled`
- `App_Config\Include\ExperienceAnalytics\Sitecore.ExperienceAnalytics.ReAggregation.config.disabled`
- `App_Config\Include\ExperienceAnalytics\Sitecore.ExperienceAnalytics.ReAggregation.Scheduling.config.disabled`
- `App_Config\Include\Sitecore.Speak.ContentSearch.Lucene.config`
- `App_Config\Include\Sitecore.Speak.ContentSearch.Solr.config.example`
- `App_Config\Include\Sitecore.Commerce.config`
- `App_Config\Include\Sitecore.Commerce.ExperienceProfile.ReportingServer.config`

In this update, the following configuration file has been removed:

- `App_Config\Include\Sitecore.Apps.TagInjection.config`

You can download the clean configuration files for Sitecore 8.1 rev. 160302 (Update-2):

- `app_config_files_81rev160302.zip`
- `Web.config_81rev160302.zip`

To download these files, on the [Sitecore Experience Platform 8.1 Update-2](#) page, in the **Upgrade options** section, click *Config files for upgrade*.

Tip

Most customers have only applied a small number of changes to the `Web.config` and `Sitecore.config` files. We recommend that you download the clean config files and re-apply any changes that you've made to save time and to reduce the risk of making mistakes when adding the new settings, pipelines, and so on to the files.

1.1.1 Changes to Web.config

To upgrade your existing config file to Sitecore 8.1 rev. 160302 (Update-2), you must make the following changes to the `Web.config` file:

1. In the `<handlers>` section, after the `<add verb="*" path="sitecore_icon.ashx" type="Sitecore.Resources.IconRequestHandler, Sitecore.Kernel" name="Sitecore.IconRequestHandler" />` node, add the following module:

```
<add verb="*" path="sitecore_temp.ashx" type="Sitecore.Resources.TempRequestHandler, Sitecore.Kernel" name="Sitecore.TempRequestHandler" />
```

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2. Move the following node and insert it at the end of the <handlers> section:

```
<add verb="*" path="sitecore_expeditor_speak_request.ashx"
type="Sitecore.ExperienceEditor.Speak.Server.RequestHandler, Sitecore.ExperienceEditor.Speak"
name="Sitecore.ExperienceEditor.Speak" />
```

3. In the <assemblyBinding> section, remove the following node:

```
<dependentAssembly>
  <assemblyIdentity name="Ninject" publicKeyToken="c7192dc5380945e7"
xmlns="urn:schemas-microsoft-com:asm.v1" />
  <codeBase version="3.2.0.0" href="bin\Social\Ninject.dll" xmlns="urn:schemas-
microsoft-com:asm.v1" />
</dependentAssembly>
```

and insert it after the <dependentAssembly><assemblyIdentity name="Newtonsoft.Json" publicKeyToken="30ad4fe6b2a6aed" /> <bindingRedirect oldVersion="0.0.0.0-6.0.0.0" newVersion="6.0.0.0" /></dependentAssembly> node.

1.1.2 Changes to App_Config\Sitecore.config

1. In the <events timingLevel="custom"> section, after the <event name="item:created:remote" /> node, add the following nodes:

```
<event name="item:cloneAdded" />
<event name="item:cloneAdded:remote" />
```

2. In the <customHandlers> section, after the <handler trigger="~/icon/" handler="sitecore_icon.ashx" /> node, add the following node:

```
<handler trigger="~/temp/" handler="sitecore_temp.ashx" />
```

3. In the <uiCloneItems> section, after the <processor mode="on" type="Sitecore.Shell.Framework.Pipelines.CloneItems, Sitecore.Kernel" method="Execute" /> node, insert following processor:

```
<processor mode="on"
type="Sitecore.Shell.Framework.Pipelines.CloneItems, Sitecore.Kernel"
method="RelinkClonedSubtree" />
```

4. In the <processors> section, after the <uiDeleteItems> node, add the following pipeline:

```
<uiRemoveLanguage>
  <processor mode="on"
type="Sitecore.Shell.Framework.Pipelines.RemoveLanguage, Sitecore.Kernel" method="Confirm" />
  <processor mode="on"
type="Sitecore.Shell.Framework.Pipelines.RemoveLanguage, Sitecore.Kernel"
method="CheckCloneItems" />
  <processor mode="on"
type="Sitecore.Shell.Framework.Pipelines.RemoveLanguage, Sitecore.Kernel" method="Execute" />
</uiRemoveLanguage>
```

5. In the <sites> section, change the <site name="service" ... /> node to the following node:

```
<site name="service" enableTracking="true" virtualFolder="/sitecore/service"
physicalFolder="/sitecore/service" usePreviousSiteName="true" />
```

6. In the <sites> section, after the <site name="service" ... /> node, insert the following node:

```
<site name="system_layouts" virtualFolder="/layouts/System"
physicalFolder="/layouts/System" usePreviousSiteName="true" />
```

7. In the <mediaTypes> section, after the <mediaType name="GIF image" extensions="gif"> node, add the following node:

```
<mediaType name="HTML" extensions="htm,html,stm">
  <mimeType>text/html</mimeType>
  <forceDownload>true</forceDownload>
  <sharedTemplate>system/media/unversioned/file</sharedTemplate>
  <versionedTemplate>system/media/versioned/file</versionedTemplate>
</mediaType>
```

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8. In the `<mediaTypes>` section, after the `<mediaType name="PNG image" extensions="png">` node, add the following node:

```
<mediaType name="SVG image" extensions="svg">
  <mimeType>image/svg+xml</mimeType>
  <forceDownload>>false</forceDownload>
  <sharedTemplate>system/media/unversioned/image</sharedTemplate>
  <versionedTemplate>system/media/versioned/image</versionedTemplate>
  <mediaValidator type="Sitecore.Resources.Media.ImageValidator" />
  <thumbnails>
    <generator type="Sitecore.Resources.Media.SvgThumbnailGenerator, Sitecore.Kernel"
  />
  </thumbnails>
  <prototypes>
    <media type="Sitecore.Resources.Media.SvgMedia, Sitecore.Kernel" />
  </prototypes>
</mediaType>
```

9. After the `<setting name="AllowLogoutOfAllUsers" value="false" />` node, add the following setting:

```
<!-- ALLOW DUPLICATE ITEM NAMES ON THE SAME LEVEL
  Specifies whether the duplicate item names are allowed on the same level in the
content tree.
  Default value: true
-->
<setting name="AllowDuplicateItemNamesOnSameLevel" value="true" />
```

10. After the `<setting name="ContentEditor.ClassicFrameEventPropagation" value="false" />` node, add the following setting:

```
<!-- CONTENT EDITOR - RENDER ITEM HELP AS HTML
  Specifies whether help information defined in the Item Help section should be
treated as an HTML markup.
  If set to false, then the item help information will be encoded before it is
rendered.
  If set to true, then the item help information will be cleared of JavaScript
code and then rendered as is.
  Default value: false.
  Please note: setting this value to true is unsafe, because it will then be
possible to inject any HTML tags (like iframe) and CSS into Sitecore.
-->
<setting name="ContentEditor.RenderItemHelpAsHtml" value="false" />
```

11. After the `<setting name="ContentEditor.ShowValidatorBar" value="true" />` node, add the following setting:

```
<!-- CONTENT EDITOR SORT LANGUAGES
  Indicates whether the Content Editor show languages in the language selection
dropdown
  in the same order as /sitecore/system/Languages child items.
  Default value: false
-->
<setting name="ContentEditor.SortLanguages" value="false" />
```

12. After the `<setting name="ItemCloning.ForceUpdate" value="false" />` node, add the following setting:

```
<!-- ITEM CLONING - DELETE CLONES WITH ORIGINAL ITEM
  Specifies whether item clones should be deleted when the original item is
deleted.
  If true, when the original item is deleted all its clones are deleted and not
just uncloned.
  Default value: false
-->
<setting name="ItemCloning.DeleteClonesWithOriginalItem" value="false" />
<!-- ITEM CLONING - FORCE UPDATE - CHANGE TEMPLATE
  Specify whether clones should be updated automatically when a different template
is selected for the original item.
  Note: If true, all the clones of the original item are updated automatically.
  Default value: false
-->
<setting name="ItemCloning.ForceUpdate.ChangeTemplate" value="false" />
```

13. After the `<setting name="InvalidItemNameChars" value="\/:?"<>|[]" />` node, add the following setting:

```
<!-- ITEM CLONING - RELINK CLONED SUBTREE
      Indicates that after cloning an item tree structure, all the internal links
      inside the cloned structure should be re-linked to point to the items in the cloned sub-tree.
      When the setting value is false, the links in the cloned structure will still
      link to the items in the original structure.
      Default value: false
-->
<setting name="ItemCloning.RelinkClonedSubtree" value="false" />
```

14. After the `<setting name="ItemNameValidation" value="^[\\w*\\$][\\w\\s\\-\\$]* (\\(\\d{1,}\\)) {0,1}$"/>` node, add the following setting:

```
<!-- ITEM NAME ALLOW MIXING REPLACEMENT CHARACTERS
      Specifies if it is allowed to create items with names containing the both parts
      'find' and 'replaceWith'
      from 'encodeNameReplacements' section.
      Default value: true.
-->
<setting name="ItemNameAllowMixingReplacementCharacters" value="true"/>
```

15. After the `<setting name="ItemNotFoundUrl" value="/sitecore/service/notfound.aspx"/>` node, add the following setting:

```
<!-- ITEM RESOLVING - FIND BEST MATCH
      Specifies mode in what item resolving, by friendly URL, tries to find items with
      names containing the both parts 'find' and 'replaceWith'
      from 'encodeNameReplacements', e.g. spaces and dashes.
      The setting can have the following values:
      - Disabled; item resolving will not try to match such items. No performance
      gain.
      - Enabled; item resolving will try to find a matching item on each nesting
      level separately.
      This value might cause a small performance impact.
      - DeepScan; item resolving will try to match an item scanning the whole item
      tree.
      The value can cause a noticeable performance impact if you have many items
      with names, which differs only by symbols from 'encodeNameReplacement'.
      Default value: Enabled.
-->
<setting name="ItemResolving.FindBestMatch" value="Enabled"/>
```

1.1.3 Changes to App_Config\MimeTypes.config

1. Comment out the following node:

```
<mediaType extensions="htm,html,stm"><mimeType>text/html</mimeType></mediaType>
```

1.1.4 Changes to App_Config\Commands.config

1. In the `<configuration>` section, after `<command name="item:clone" type="Sitecore.Shell.Framework.Commands.Clone,Sitecore.Kernel" />` node, add the following node:

```
<command name="item:cloneitemwithoutsubitems"
type="Sitecore.Shell.Framework.Commands.CloneWithoutSubItems,Sitecore.Kernel" />
```

1.1.5 Changes to App_Config\Include\Sitecore.Buckets.config

1. In the beginning of the `<commands>` section, add the following node:

```
<command name="item:addmaster">
  <patch:attribute name="type">Sitecore.Buckets.Pipelines.UI.AddMaster,
Sitecore.Buckets</patch:attribute>
</command>
```

2. At the end of the `<processors>` section, add the following node:

```
<uiAddFromTemplate>
```

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```
<processor mode="on" type="Sitecore.Buckets.Pipelines.UI.AddFromTemplate.SelectItem"
method="Execute" />
</uiAddFromTemplate>
```

1.1.6 Changes to \App_Config\Include\Sitecore.Analytics.config

1. In the <marketingDefinitions> section, add the following nodes:

```
<rdbCacheSize>20MB</rdbCacheSize>
<rdbCacheExpirationInSeconds>10</rdbCacheExpirationInSeconds>
```

2. Replace every <param desc="maxSize">20MB</param> node, with the following nodes:

```
<param desc="maxSize" ref="marketingDefinitions/rdbCacheSize" />
<param desc="expirationInSeconds"
ref="marketingDefinitions/rdbCacheExpirationInSeconds" />
```

1.1.7 Changes to \App_Config\Include\Sitecore.Analytics.MarketingTaxonomy.config

1. In the <taxonomy> section, add the following nodes:

```
<cacheSize>20MB</cacheSize>
<cacheExpirationInSeconds>0</cacheExpirationInSeconds>
```

2. Replace every <param desc="cacheSize">20MB</param> node, with the following nodes:

```
<param desc="cache" type="Sitecore.Marketing.Taxonomy.TaxonomyCache,
Sitecore.Marketing.Taxonomy">
  <param desc="name">taxonomy. ${name}</param>
  <param desc="cacheSize" ref="taxonomy/cacheSize" />
  <param desc="expirationInSeconds" ref="taxonomy/cacheExpirationInSeconds" />
</param>
```

3. In the added sections, replace \${name} with the following name for the appropriate manager:

```
campaignGroupTaxonomyManager: campaigngroups
channelTaxonomyManager: channels
venueTaxonomyManager: venues
assetTaxonomyManager: assets
outcomeGroupTaxonomyManager: outcomeGroups
customTaxonomyManager: custom.
```

1.1.8 Changes to \App_Config\Include\Sitecore.Analytics.MarketingTaxonomyCD.config.disabled

1. In the <taxonomy> section, add the following nodes:

```
<cacheExpirationInSeconds>10</cacheExpirationInSeconds>
```

1.1.9 Changes to \App_Config\Include\Sitecore.Analytics.Tracking.config

1. At the end of the <httpRequestProcessed> section, add the following node:

```
<processor
type="Sitecore.Analytics.Pipelines.HttpRequest.SetPreviousSiteName,Sitecore.Analytics" />
```

2. At the end of the <config type="Sitecore.Analytics.Tracking.SharedSessionState.SharedSessionStateConfig, Sitecore.Analytics"> section, add the following node:

```
<!-- If an item in session state is already locked, this parameter is the time in
milliseconds that the system is idle before making another attempt to apply a lock. -->
<param desc="timeoutBetweenLockAttempts">10</param>
```

1.1.10 Changes to `\App_Config\Include\Sitecore.MarketingReportingRole.config.disabled`

1. In the `<taxonomy>` section, add the following node:

```
<cacheExpirationInSeconds>10</cacheExpirationInSeconds>
```

1.1.11 Changes to `\App_Config\Include\Sitecore.MarketingProcessingRole.config.disabled`

1. In the `<taxonomy>` section, add the following node:

```
<cacheExpirationInSeconds>10</cacheExpirationInSeconds>
```

1.1.12 Changes to `\App_Config\Include\Sitecore.Marketing.Definitions.MarketingAssets.Repositories.config`

1. Replace every `<param desc="maxSize">20MB</param>` node, with the following nodes:

```
<param desc="maxSize" ref="marketingDefinitions/rdbCacheSize" />  
<param desc="expirationInSeconds"  
ref="marketingDefinitions/rdbCacheExpirationInSeconds" />
```

1.1.13 Changes to `App_Config\Include\Z.SwitchMasterToWeb\SwitchMasterToWeb.config.example`

1. In the `<datasources>` section, remove the following node:

```
<add key="item">  
  <FiltersFactory>  
    <param desc="definitionDatabaseName">web</param>  
  </FiltersFactory>  
</add>
```

1.1.14 Changes to `App_Config\Include\Sitecore.ContentSearch.Solr.DefaultIndexConfiguration.config.example`

1. At the end of the `<indexConfigurations>` section, add the following node:

```
<solrHttpRequestFactory type="HttpWebAdapters.HttpHttpRequestFactory, SolrNet" />
```

1.1.15 Changes to `App_Config\Include\ContentTesting\Sitecore.ContentTesting.config`

1. In the `<allowedControllers>` section, move the following node and insert it after the "CT_ContentTestingController" controller:

```
<allowedController  
desc="CT_CreateTestDialogController">Sitecore.ContentTesting.Requests.Controllers.CreateTestDialogController, Sitecore.ContentTesting</allowedController>
```

2. In the `<allowedControllers>` section, move the following node and insert it after the "CT_TopGoalsController" controller:

```
<allowedController  
desc="CT_TestSummaryController">Sitecore.ContentTesting.Requests.Controllers.TestSummary.TestSummaryController, Sitecore.ContentTesting</allowedController>
```


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3. Remove the `<appDependencies>` section.
4. In the `<pipelines>` section add the following node:

```
<mergeContacts>
  <processor
type="Sitecore.ContentTesting.Pipelines.MergeContacts.MergeTestCombinations,
Sitecore.ContentTesting"
patch:before="processor[@type='Sitecore.Analytics.Pipelines.MergeContacts.MergeContactFacets,
Sitecore.Analytics']"/>
  </mergeContacts>
```

5. At the end of the `<stopTest>` section, add the following node:

```
<processor type="Sitecore.ContentTesting.Pipelines.StopTest.ClearTestCache,
Sitecore.ContentTesting" />
```

6. After the `<event name="item:unbucketing:ending">` section, add the following node:

```
<event name="item:versionRemoved">
  <handler type="Sitecore.ContentTesting.Events.ActiveTestCacheClearer,
Sitecore.ContentTesting" method="OnVersionRemoved"/>
</event>

<event name="item:versionRemoved:remote">
  <handler type="Sitecore.ContentTesting.Events.ActiveTestCacheClearer,
Sitecore.ContentTesting" method="OnRemoteVersionRemoved"/>
</event>
```

1.1.16 Changes to App_Config\Include\ContentTesting\Sitecore.ContentTesting.Lucene.IndexConfiguration.config

1. In the `<configuration ref="contentSearch/indexConfigurations/defaultLuceneIndexConfiguration">` section, replace

```
<fieldMap
ref="contentSearch/indexConfigurations/defaultLuceneIndexConfiguration/fieldMap" />
```

with the following:

```
<fieldMap
ref="contentSearch/indexConfigurations/defaultLuceneIndexConfiguration/fieldMap">
  <fieldNames hint="raw:AddFieldByFieldName">
    <field fieldName="impact" storageType="YES" indexType="TOKENIZED"
vectorType="NO" boost="1f" type="System.Double"
settingType="Sitecore.ContentSearch.LuceneProvider.LuceneSearchFieldConfiguration,
Sitecore.ContentSearch.LuceneProvider"/>
    <field fieldName="potential" storageType="YES" indexType="TOKENIZED"
vectorType="NO" boost="1f" type="System.Double"
settingType="Sitecore.ContentSearch.LuceneProvider.LuceneSearchFieldConfiguration,
Sitecore.ContentSearch.LuceneProvider"/>
    <field fieldName="recommendation" storageType="YES" indexType="TOKENIZED"
vectorType="NO" boost="1f" type="System.Double"
settingType="Sitecore.ContentSearch.LuceneProvider.LuceneSearchFieldConfiguration,
Sitecore.ContentSearch.LuceneProvider"/>
  </fieldNames>
</fieldMap>
```

1.1.17 Changes to App_Config\Include\ContentTesting\Sitecore.ContentTesting.Solr.IndexConfiguration.config.disabled

1. At the beginning of the `<configuration ref="contentSearch/indexConfigurations/defaultSolrIndexConfiguration">` section, add the following node:

```
<fieldMap
ref="contentSearch/indexConfigurations/defaultSolrIndexConfiguration/fieldMap">
```

```
<fieldNames hint="raw:AddFieldByFieldName">
  <field fieldName="impact" returnType="double" />
  <field fieldName="potential" returnType="double" />
  <field fieldName="recommendation" returnType="double" />
</fieldNames>
</fieldMap>
```

1.1.18 Changes to App_Config\Include>ListManagement\Sitecore.ListManagement.config

1. After the `<processContactsDataProvider>` section, add the new `<contactProcessingProvider>` section:

```
<!-- CONTACTS PROCESSING PROVIDER
Performs the communication with current data engine when processing contacts.

<contactProcessingProvider
type="Sitecore.ListManagement.Analytics.Data.ContactProcessingProvider,
Sitecore.ListManagement.Analytics">
  <param ref="/sitecore/contactRepository" />
  <param ref="/sitecore/model/entities/contact/template" />
  <param name="operationManager"
type="Sitecore.Analytics.Data.Bulk.Contact.ContactBulkUpdateManager, Sitecore.Analytics" />
  <param name="setManager"
type="Sitecore.Analytics.Data.Bulk.Contact.KnownContactSetManager, Sitecore.Analytics" />
</contactProcessingProvider>
```

2. In the `<csvReader>` section, change the values from

```
<csvReader type="Sitecore.ListManagement.ContentSearch.Parsers.CsvReader,
Sitecore.ListManagement.ContentSearch" singleInstance="true" />
```

to:

```
<csvReader type="Sitecore.ListManagement.Import.CsvReader, Sitecore.ListManagement"
singleInstance="true" />
```

3. After the `<csvReader>` section, add the new `<import>` section:

```
<import>
<!-- CONTACT CREATOR -->
<contactCreator type="Sitecore.ListManagement.Import.ContactCreator,
Sitecore.ListManagement">
  <param ref="/sitecore/model/entities/contact/template" />
  <param ref="/sitecore/import/contactMapper" />
</contactCreator>

<!-- CONTACT READER
-->
  Reads contact data from uploaded media file and creates contact templates.
-->
<contactReader type="Sitecore.ListManagement.Import.ContactReader,
Sitecore.ListManagement">
  <param ref="/sitecore/csvReader" />
  <param ref="/sitecore/import/contactCreator" />
</contactReader>
<!-- CONTACT MAPPERS
-->
<contactMapper type="Sitecore.ListManagement.Import.CompositeContactTemplateMapper,
Sitecore.ListManagement">
  <contactMappers hint="list:AddContactMapper">
    <contactMapper type="Sitecore.ListManagement.Import.InstantPropertyMapper,
Sitecore.ListManagement" />
    <contactMapper type="Sitecore.ListManagement.Import.FacetedMapper,
Sitecore.ListManagement" />
    <contactMapper
type="Sitecore.ListManagement.Import.PreferredEntryFacetMapper, Sitecore.ListManagement" />
    <contactMapper
type="Sitecore.ListManagement.Import.PreferredEntryDictionaryMapper, Sitecore.ListManagement"
/>
    <contactMapper type="Sitecore.ListManagement.Import.MapperNotFoundLogger,
Sitecore.ListManagement" />
  </contactMappers>
</contactMapper>
</import>
```

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4. In the `<listManagement.importMediaContacts>` section, replace

```
<processor
type="Sitecore.ListManagement.ContentSearch.Pipelines.ImportMediaContacts.GetContactsFromStream, Sitecore.ListManagement.ContentSearch">
  <param ref="csvReader" />
</processor>
<processor
type="Sitecore.ListManagement.ContentSearch.Pipelines.ImportMediaContacts.ImportContacts, Sitecore.ListManagement.ContentSearch">
  <ContactProcessingProvider ref="processContactsDataProvider" />
</processor>
```

with:

```
<processor
type="Sitecore.ListManagement.ContentSearch.Pipelines.ImportMediaContacts.GetContactTemplatesFromStream, Sitecore.ListManagement.ContentSearch">
  <param ref="/sitecore/import/contactReader" />
</processor>
<processor
type="Sitecore.ListManagement.ContentSearch.Pipelines.ImportMediaContacts.ImportContactTemplates, Sitecore.ListManagement.ContentSearch">
  <param ref="/sitecore/contactProcessingProvider" />
</processor>
```

1.1.19 Changes to `App_Config\Include\ListManagement\Sitecore.ListManagement.Solr.IndexConfiguration.config.disabled`

1. After the `<indexDocumentPropertyMapper>` section, add the new `<fieldReaders>` section:

```
<fieldReaders
ref="contentSearch/indexConfigurations/defaultSolrIndexConfiguration/fieldReaders">
  <fieldNames hint="raw:AddFieldReaderByFieldName">
    <fieldReader fieldName="query"
fieldReaderType="Sitecore.ContentSearch.FieldReaders.DefaultFieldReader, Sitecore.ContentSearch" />
  </fieldNames>
</fieldReaders>
```

1.1.20 Changes to `App_Config\Include\ExperienceAnalytics\Sitecore.ExperienceAnalytics.Aggregation.config`

1. In the beginning of the `<experienceAnalytics><aggregation>` node, add the following node:

```
<logger type="Sitecore.ExperienceAnalytics.Core.Diagnostics.Logger, Sitecore.ExperienceAnalytics" singleInstance="true"/>
```

2. In the `<experienceAnalytics><aggregation><services>` section, replace the `<dimensionDefinitionService>` node with the following:

```
<dimensionDefinitionService
type="Sitecore.ExperienceAnalytics.Core.Repositories.DimensionDefinitionService, Sitecore.ExperienceAnalytics" singleInstance="true">
  <param
desc="pathToConfigNode">experienceAnalytics/aggregation/dimensions</param>
  <param desc="logger" ref="experienceAnalytics/aggregation/logger"/>
</dimensionDefinitionService>
```

3. In the `<experienceAnalytics><aggregation><services>` section, delete the `<segmentDefinitionService>` node and replace it with the following:

```
<aggregationSegmentRepository
type="Sitecore.ExperienceAnalytics.Aggregation.Repositories.AggregationSegmentLocalSqlRepository, Sitecore.ExperienceAnalytics">
  <param desc="connectionStringName">reporting</param>
```

```
<param desc="logger" ref="experienceAnalytics/aggregation/logger"/>
</aggregationSegmentRepository>
```

4. At the end of the `<experienceAnalytics><aggregation><services>` section, add the following:

```
<deviceInformationService
type="Sitecore.ExperienceAnalytics.Core.Adapters.DeviceInformationAdapter,
Sitecore.ExperienceAnalytics"/>
  <deviceDetectionSettings
type="Sitecore.ExperienceAnalytics.Core.Adapters.DeviceDetectionSettingsAdapter,
Sitecore.ExperienceAnalytics"/>
  <hierarchicalIdDimensionKeyStrategy
type="Sitecore.ExperienceAnalytics.Core.Repositories.Model.HierarchicalIdDimensionKeyStrategy,
Sitecore.ExperienceAnalytics"/>
  <customTaxonomyManagerAdapter
type="Sitecore.ExperienceAnalytics.Core.Adapters.CustomTaxonomyManagerAdapter,
Sitecore.ExperienceAnalytics"/>
```

1.1.21 Changes to App_Config\Include\ExperienceAnalytics\Sitecore.ExperienceAnalytics.Client.config

1. At the beginning of the `<experienceAnalytics><client>` section, add the following node:

```
<logger type="Sitecore.ExperienceAnalytics.Core.Diagnostics.Logger,
Sitecore.ExperienceAnalytics" singleInstance="true"/>
```

2. In the `<experienceAnalytics><client><services>` section, remove the following node:

```
<segmentDefinitionService
type="Sitecore.ExperienceAnalytics.Core.Repositories.DataProviderSegmentDefinitionService,
Sitecore.ExperienceAnalytics" />
```

3. In the beginning of the `<experienceAnalytics><client><services>` section, add the following nodes:

```
<aggregationSegmentReader
type="Sitecore.ExperienceAnalytics.Aggregation.Repositories.AggregationSegmentRemoteReader,
Sitecore.ExperienceAnalytics" >
  <param type="Sitecore.ExperienceAnalytics.Client.ClientContainer,
Sitecore.ExperienceAnalytics.Client" factoryMethod="GetLazyReportingDataProvider" />
  <param desc="reportingDataSourceName">reporting</param>
  <param desc="logger" ref="experienceAnalytics/client/logger"/>
</aggregationSegmentReader>
<segmentReader type="Sitecore.ExperienceAnalytics.Client.Deployment.SegmentItemReader,
Sitecore.ExperienceAnalytics.Client" >
  <param ref="experienceAnalytics/client/logger"/>
</segmentReader>
```

4. In the `<experienceAnalytics><client><services>` section, replace the `<siteDefinitionService>` node with the following:

```
<siteDefinitionService
type="Sitecore.ExperienceAnalytics.Core.Repositories.DataProviderSiteDefinitionService,
Sitecore.ExperienceAnalytics" >
  <param type="Sitecore.ExperienceAnalytics.Client.ClientContainer,
Sitecore.ExperienceAnalytics.Client" factoryMethod="GetLazyReportingDataProvider" />
  <param desc="reportingDataSourceName">reporting</param>
</siteDefinitionService>
```

5. In the `<experienceAnalytics><client><services>` section, after the `</siteDefinitionService>` node, add the following:

```
<requestRedirection
type="Sitecore.ExperienceAnalytics.Client.Pipelines.HttpRequest.RequestRedirection,
Sitecore.ExperienceAnalytics.Client">
  <param type="Sitecore.ExperienceAnalytics.Core.Adapters.XDbSettingsAdapter,
Sitecore.ExperienceAnalytics"/>
  <param ref="experienceAnalytics/client/logger"/>
</requestRedirection>

<encoder type="Sitecore.ExperienceAnalytics.Api.Encoding.Hash64Encoder,
Sitecore.ExperienceAnalytics"/>
```

Configuration File Changes

```
        <keyCodec type="Sitecore.ExperienceAnalytics.Api.Encoding.HashKeysCodec,
Sitecore.ExperienceAnalytics">
            <param desc="encoder" ref="experienceAnalytics/client/services/encoder"/>
            <param desc="decoder"
type="Sitecore.ExperienceAnalytics.Api.Encoding.PresetsEnabledKeyDecoder,
Sitecore.ExperienceAnalytics">
                <param desc="hashMAPPING"
type="Sitecore.ExperienceAnalytics.Api.Encoding.HashMapper, Sitecore.ExperienceAnalytics">
                    <param desc="keysProvider"
type="Sitecore.ExperienceAnalytics.Api.Encoding.InMemoryPresetKeysProvider,
Sitecore.ExperienceAnalytics"/>
                        <param desc="encoder"
ref="experienceAnalytics/client/services/encoder"/>
                            </param>
                                <param desc="decoder"
type="Sitecore.ExperienceAnalytics.Api.Encoding.DatabaseKeyDecoder,
Sitecore.ExperienceAnalytics">
                                    <param desc="keysRepository"
ref="experienceAnalytics/client/services/hashKeysProvider"/>
                                        </param>
                                            </param>
                                                </keyCodec>
<!-- DataProviderHashKeys is responsible for hash of entities stored in database. -->
            <hashKeysProvider
type="Sitecore.ExperienceAnalytics.Core.Repositories.DataProviderHashKeys,
Sitecore.ExperienceAnalytics" >
                <param type="Sitecore.ExperienceAnalytics.Client.ClientContainer,
Sitecore.ExperienceAnalytics.Client" factoryMethod="GetLazyReportingDataProvider"/>
                <param desc="reportingDataSourceName">reporting</param>
            </hashKeysProvider>
```

6. In the `<pipelines><initialize>` section, replace the `<processor>` node with the following:

```
        <processor type="Sitecore.ExperienceAnalytics.Client.Deployment.SyncSegmentsProcessor,
Sitecore.ExperienceAnalytics.Client" x:after="processor[position()=last()]" >
            <param ref="experienceAnalytics/client/logger"/>
            <param
type="Sitecore.ExperienceAnalytics.Client.Deployment.SyncSegmentsManager,
Sitecore.ExperienceAnalytics.Client" >
                <param ref="experienceAnalytics/client/logger"/>
                <param
type="Sitecore.ExperienceAnalytics.Client.Deployment.DeploySegmentDefinitionProcessor,
Sitecore.ExperienceAnalytics.Client">
                    <param ref="experienceAnalytics/client/logger"/>
                    </param>
                </param>
            </processor>
```

7. In the `<pipelines><deployDefinition>` section, replace the `<processor>` node with the following:

```
        <processor
type="Sitecore.ExperienceAnalytics.Client.Deployment.DeploySegmentDefinitionProcessor,
Sitecore.ExperienceAnalytics.Client">
            <param ref="experienceAnalytics/client/logger"/>
        </processor>
```

8. In the `<pipelines><httpRequestBegin>` section, replace the `<processor>` node with the following:

```
        <processor
type="Sitecore.ExperienceAnalytics.Client.Pipelines.HttpRequest.RedirectRequest,
Sitecore.ExperienceAnalytics.Client"
x:after="processor[@type='Sitecore.Pipelines.HttpRequest.ItemResolver, Sitecore.Kernel']" >
            <param ref="experienceAnalytics/client/services/requestRedirection"/>
        </processor>
```

1.1.22 Changes to App_Config\Include\ExperienceAnalytics\Sitecore.ExperienceAnalytics.WebAPI.config

1. At the beginning of the <experienceAnalytics><api> node, add the following node:

```
<logger type="Sitecore.ExperienceAnalytics.Core.Diagnostics.Logger,
Sitecore.ExperienceAnalytics" singleInstance="true"/>
```

2. In the <experienceAnalytics><api><services> node, replace the <dimensionDefinitionService> node with the following:

```
<dimensionDefinitionService
type="Sitecore.ExperienceAnalytics.Core.Repositories.DimensionDefinitionService,
Sitecore.ExperienceAnalytics" singleInstance="true">
  <param desc="pathToConfigNode">experienceAnalytics/api/dimensions</param>
  <param desc="logger" ref="experienceAnalytics/api/logger"/>
</dimensionDefinitionService>
```

3. In the <experienceAnalytics><api><services><reportingService> section, replace the <reportingService> node with the following:

```
<reportingService type="Sitecore.ExperienceAnalytics.Api.ReportingService,
Sitecore.ExperienceAnalytics" >
  <param ref="experienceAnalytics/api/services/reportDataService"/>
  <param ref="experienceAnalytics/api/services/aggregationSegmentReader"/>
  <param ref="experienceAnalytics/api/services/segmentReader"/>
  <param ref="experienceAnalytics/api/services/dimensionDefinitionService"/>
</reportingService>
```

4. In the <experienceAnalytics><api><services> section, remove the following node:

```
<segmentDefinitionService
type="Sitecore.ExperienceAnalytics.Core.Repositories.DataProviderSegmentDefinitionService,
Sitecore.ExperienceAnalytics" />
```

5. In the <experienceAnalytics><api><services> node, after the <reportingService> node, add the following nodes:

```
<!-- ReportDataService is responsible for providing data in response to the queries
from ReportingService. -->
  <reportDataService type="Sitecore.ExperienceAnalytics.Api.ReportDataService,
Sitecore.ExperienceAnalytics" >
    <param type="Sitecore.ExperienceAnalytics.Api.ApiContainer,
Sitecore.ExperienceAnalytics" factoryMethod="GetLazyReportingDataProvider"/>
    <param desc="reportingDataSourceName">reporting</param>
  </reportDataService>

  <!-- AggregationSegmentReader is responsible for reading data from the
Segments dimension table in RDB. -->
  <aggregationSegmentReader
type="Sitecore.ExperienceAnalytics.Aggregation.Repositories.AggregationSegmentRemoteReader,
Sitecore.ExperienceAnalytics" >
    <param type="Sitecore.ExperienceAnalytics.Api.ApiContainer,
Sitecore.ExperienceAnalytics" factoryMethod="GetLazyReportingDataProvider"/>
    <param desc="reportingDataSourceName">reporting</param>
    <param desc="logger" ref="experienceAnalytics/api/logger"/>
  </aggregationSegmentReader>

  <!-- SegmentReader is responsible for reading segment items from master
database. -->
  <segmentReader
type="Sitecore.ExperienceAnalytics.Client.Deployment.SegmentItemReader,
Sitecore.ExperienceAnalytics.Client" >
    <param ref="experienceAnalytics/api/logger"/>
  </segmentReader>
```

6. In the <experienceAnalytics><api><services> node, after the <userService> node, add the following nodes:

```
<dimensionKeyConverter type="Sitecore.ExperienceAnalytics.Core.DimensionKeyConverter,
Sitecore.ExperienceAnalytics"/>
  <encoder type="Sitecore.ExperienceAnalytics.Api.Encoding.Hash64Encoder,
Sitecore.ExperienceAnalytics"/>
```

Configuration File Changes

```
        <keyCodec type="Sitecore.ExperienceAnalytics.Api.Encoding.HashKeysCodec,
Sitecore.ExperienceAnalytics">
            <param desc="encoder" ref="experienceAnalytics/api/services/encoder"/>
            <param desc="decoder"
type="Sitecore.ExperienceAnalytics.Api.Encoding.PresetsEnabledKeyDecoder,
Sitecore.ExperienceAnalytics">
                <param desc="hashMAPPING"
type="Sitecore.ExperienceAnalytics.Api.Encoding.HashMapper, Sitecore.ExperienceAnalytics">
                    <param desc="keysProvider"
type="Sitecore.ExperienceAnalytics.Api.Encoding.InMemoryPresetKeysProvider,
Sitecore.ExperienceAnalytics"/>
                        <param desc="encoder" ref="experienceAnalytics/api/services/encoder"/>
                    </param>
                    <param desc="decoder"
type="Sitecore.ExperienceAnalytics.Api.Encoding.DatabaseKeyDecoder,
Sitecore.ExperienceAnalytics">
                        <param desc="keysRepository"
ref="experienceAnalytics/api/hashKeysProvider"/>
                    </param>
                </param>
            </keyCodec>
            <reportResponseEncoder
type="Sitecore.ExperienceAnalytics.Api.Response.ReportResponseEncoder,
Sitecore.ExperienceAnalytics" >
                <param ref="experienceAnalytics/api/services/keyCodec"/>
            </reportResponseEncoder>
            <taxonomyTransformer
type="Sitecore.ExperienceAnalytics.Api.Response.DimensionKeyTransformers.TaxonomyTransformer,
Sitecore.ExperienceAnalytics">
                <param
type="Sitecore.ExperienceAnalytics.Core.Adapters.CustomTaxonomyManagerAdapter,
Sitecore.ExperienceAnalytics"/>
            </taxonomyTransformer>
```

7. In the `<experienceAnalytics><api>` node, after the `</services>` node, add the following nodes:

```
        <!-- DataProviderHashKeys is responsible for hash of entities stored in database. -->
        <hashKeysProvider
type="Sitecore.ExperienceAnalytics.Core.Repositories.DataProviderHashKeys,
Sitecore.ExperienceAnalytics" >
            <param type="Sitecore.ExperienceAnalytics.Api.ApiContainer,
Sitecore.ExperienceAnalytics" factoryMethod="GetLazyReportingDataProvider"/>
            <param desc="reportingDataSourceName">reporting</param>
        </hashKeysProvider>
```

8. In the `<pipelines><initialize>` section, replace the `<processor>` node with the following:

```
        <processor
type="Sitecore.ExperienceAnalytics.Api.Pipelines.Initialize.WebApiInitializer,
Sitecore.ExperienceAnalytics" x:after="processor[position()=last()]" >
            <param desc="logger" ref="experienceAnalytics/api/logger"/>
        </processor>
```

1.1.23 Changes to App_Config\Include\ExperienceAnalytics\Sitecore.ExperienceAnalytics.StorageProviders.config

1. In the beginning of the `<experienceAnalytics><deployment>` node, add the following node:

```
        <logger type="Sitecore.ExperienceAnalytics.Core.Diagnostics.Logger,
Sitecore.ExperienceAnalytics" singleInstance="true"/>
```

2. In the `<experienceAnalytics><deployment><services>` node, remove the following node:

```
        <segmentDefinitionService
type="Sitecore.ExperienceAnalytics.Core.Repositories.LocalSegmentDefinitionService,
Sitecore.ExperienceAnalytics">
            <param desc="connectionStringName">reporting</param>
        </segmentDefinitionService>
```

3. In the `<experienceAnalytics><deployment><services>` node, add the following nodes:

```

<!-- AggregationSegmentRepository is responsible for reading/writing data to/from the
Segments dimension table in RDB.
The 'connectionStringName' parameter the name of the connection string
of the RDB instance to connect to.
Default: "reporting"
-->
<aggregationSegmentRepository
type="Sitecore.ExperienceAnalytics.Aggregation.Repositories.AggregationSegmentLocalSqlRepository, Sitecore.ExperienceAnalytics">
  <param desc="connectionStringName">reporting</param>
  <param desc="logger" ref="experienceAnalytics/deployment/logger"/>
</aggregationSegmentRepository>

<!-- secondaryAggregationSegmentRepository is responsible for
reading/writing data to/from the Segments dimension table in RDB.
The 'connectionStringName' parameter the name of the connection string
of the RDB instance to connect to.
Default: "reporting.secondary"
-->
<secondaryAggregationSegmentRepository
type="Sitecore.ExperienceAnalytics.Aggregation.Repositories.AggregationSegmentLocalSqlRepository, Sitecore.ExperienceAnalytics">
  <param desc="connectionStringName">reporting.secondary</param>
  <param desc="logger" ref="experienceAnalytics/deployment/logger"/>
</secondaryAggregationSegmentRepository>

```

4. In the `<experienceAnalytics><primarySegmentStorageProvider>` node, remove the following node:

```
<param desc="connectionStringName">reporting</param>
```

5. In the `<experienceAnalytics><primarySegmentStorageProvider>` node, add the following nodes:

```
<param ref="experienceAnalytics/deployment/services/aggregationSegmentRepository"/>
<param ref="experienceAnalytics/deployment/logger"/>
```

6. In the `<experienceAnalytics><secondarySegmentStorageProvider>` node, remove the following node:

```
<param desc="connectionStringName">reporting.secondary</param>
```

7. In the `<experienceAnalytics><secondarySegmentStorageProvider>` node, add the following nodes:

```
<param
ref="experienceAnalytics/deployment/services/secondaryAggregationSegmentRepository"/>
<param ref="experienceAnalytics/deployment/logger"/>
```

1.1.24 Changes to App_Config\Include\ExperienceAnalytics\Sitecore.ExperienceAnalytics.Reduce.config

1. In the `<sitecore><hooks>` node, replace the `<hook>` node with the following:

```

<hook desc="reduceLoader" type="Sitecore.ExperienceAnalytics.Core.SubSystemLoader,
Sitecore.ExperienceAnalytics" >
  <param desc="logger" ref="experienceAnalytics/reduce/logger" />
  <param desc="subsystemToLoad" ref="experienceAnalytics/reduce/subsystem" />
</hook>

```

2. At the beginning of the `<experienceAnalytics><reduce>` node, add the following node:

```
<logger type="Sitecore.ExperienceAnalytics.Core.Diagnostics.Logger,
Sitecore.ExperienceAnalytics" singleInstance="true"/>
```

3. In the `<experienceAnalytics><reduce>` section, replace the `<agent>` node with the following:

```

<agent type="Sitecore.ExperienceAnalytics.Reduce.ReduceAgent,
Sitecore.ExperienceAnalytics" >
  <param desc="connectionStringName">reporting</param>

```


Configuration File Changes

```
<param desc="triggerHour">1</param>
<param desc="logger" ref="experienceAnalytics/reduce/logger" />
<param ref="experienceAnalytics/reduce/manager" />
</agent>
```

4. In the `<experienceAnalytics><reduce><manager>` node, remove the following node:

```
<param desc="triggerHour">1</param>
```

5. In the `<experienceAnalytics><reduce><manager>` node, add the following node:

```
<param desc="logger" ref="experienceAnalytics/reduce/logger" />
```

6. In the `<experienceAnalytics><reduce><manager>` node, add the following node:

```
<param desc="logger" ref="experienceAnalytics/reduce/logger" />
```

7. In the `<experienceAnalytics><reduce><services>` section, remove the following node:

```
<segmentDefinitionService
type="Sitecore.ExperienceAnalytics.Core.Repositories.LocalSegmentDefinitionService,
Sitecore.ExperienceAnalytics">
  <param desc="connectionStringName">reporting</param>
</segmentDefinitionService>
```

8. In the beginning of the `<experienceAnalytics><reduce><services>` section, add the following nodes:

```
<aggregationSegmentRepository
type="Sitecore.ExperienceAnalytics.Aggregation.Repositories.AggregationSegmentLocalSqlRepository, Sitecore.ExperienceAnalytics">
  <param desc="connectionStringName">reporting</param>
  <param desc="logger" ref="experienceAnalytics/reduce/logger" />
</aggregationSegmentRepository>
```

9. In the `<experienceAnalytics><reduce><services>` section, replace the `<dimensionDefinitionService>` node with the following:

```
<dimensionDefinitionService
type="Sitecore.ExperienceAnalytics.Core.Repositories.DimensionDefinitionService,
Sitecore.ExperienceAnalytics" singleInstance="true">
  <param
desc="pathToConfigNode">experienceAnalytics/reduce/dimensions</param>
  <param desc="logger" ref="experienceAnalytics/reduce/logger" />
</dimensionDefinitionService>
```

10. In the `<sitecore><settings>` section, after the `<setting name="ExperienceAnalytics.Reduce.DefaultVisitThreshold" value="10" />` node, add the following node:

```
<!-- EXPERIENCE ANALYTICS - REDUCE - TIMEOUT
  The maximum amount of time the reducer can run. After this amount of time,
  the reducer will be aborted.
  Default value: 1 hour
-->
<setting name="ExperienceAnalytics.Reduce.Timeout" value="01:00:00" />
```