

VANTIQ

VANTIQ 1.42 Update

VANTIQ Global Field & Partner Enablement

Agenda

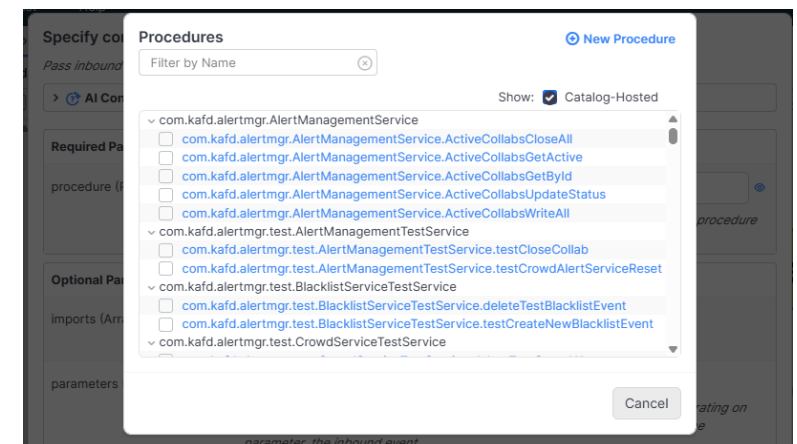
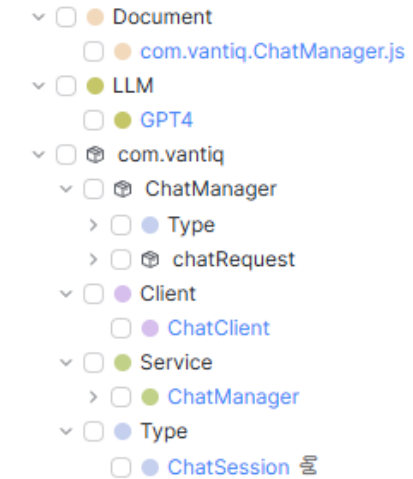
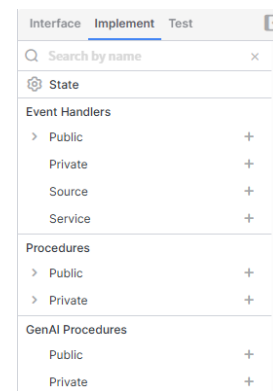
- Overview of New Features and Enhancements
- IDE Usability Enhancements
- Client Builder Theming & Widget Enhancements
- Client Builder New and Enhanced Widgets
- Generative AI Enhancements
- Server Enhancements
- FHIR support
- Deprecated Features

Overview of New Features and Enhancements

Usability Enhancements - UI/UX Changes

Increased developer productivity

- 30+ style changes to the IDE
- Resource Explorer now has a 'package' view, making exploring large sets of procedures, etc, easier
- Service Builder usability enhancements based on field feedback



Usability Enhancements- Client Builder Widgets and Themes

Increased developer productivity

- Client Builder Widgets have been restyled to be more consistent and better looking
- Client Builder Theming capabilities have been increased from 17 to 96 theme properties
 - Reduce the need for complex CSS
- Widgets support a large set of additional style properties and default to the current theme

The image displays several individual widgets: a table with columns 'Name' and 'Age' containing data for John, Mary, David, and Helen; a calendar for May 2025; a blue 'Click Me' button; a number input field showing '0'; and a checkbox labeled 'A Checkbox'.

The image shows the VantIQ Client Builder interface. On the left is a 'Theme' configuration panel with a 'Discover' button and a 'Light' theme selected. The panel has expandable sections for 'General', 'Page Background' (with options for Background Image URL, Repeat, Size, and Position), 'Widget Labels', 'Mobile App', 'Layout Widgets', 'Input Widgets', 'Button Widgets', 'Table Widgets', 'Number Widget', and 'Context Menu'. On the right is a 'Preview' window showing a 'Card Title' widget with a dropdown menu, a text input field labeled 'Enter Temperature' with the value '100', a 'Click Me' button, a number input field showing '0', and a bar chart at the bottom.

GenAI Enhancements - Guardrails, ‘Human-in-the-Loop’, Conversation enhancements

Increased integration capabilities

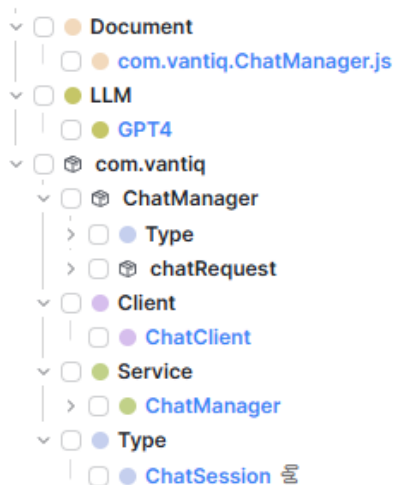
- GenAI Builder adds support for GuardrailsAI and Nvidia NeMo Guardrails SDK
- ‘Human-in-the-loop’ support
 - Using the ‘callback’ feature
 - Using a ‘notification’ feature
- Conversation enhancements
 - Updates to the Conversation widget
 - Support for ‘Human-in-the-loop’ features
 - Enhancements to the management of conversations via Collaborations

The slide features a dark blue horizontal band across the middle. Above this band is a light blue trapezoidal shape. Below the band is a background of light blue wavy lines with small orange dots. The title 'IDE Usability Enhancements' is centered in the dark blue band in white text.

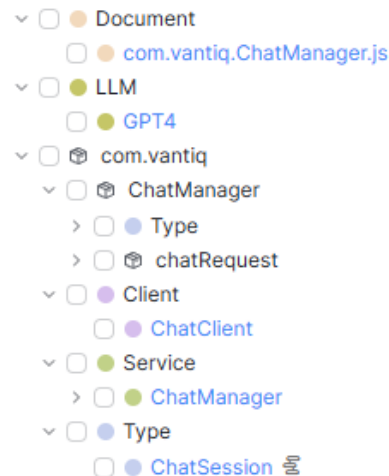
IDE Usability Enhancements

IDE Change

- 30+ Style changes to the IDE
- These were designed to give the IDE a lighter and more modern look and feel
- Remove subtle inconsistencies across aspects of the IDE

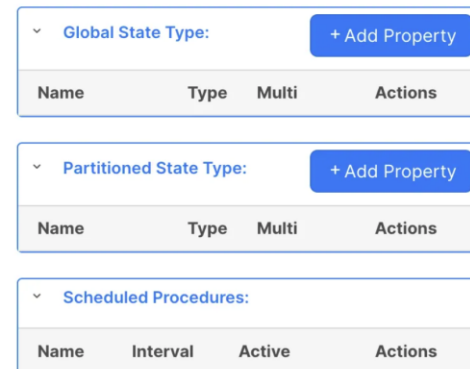


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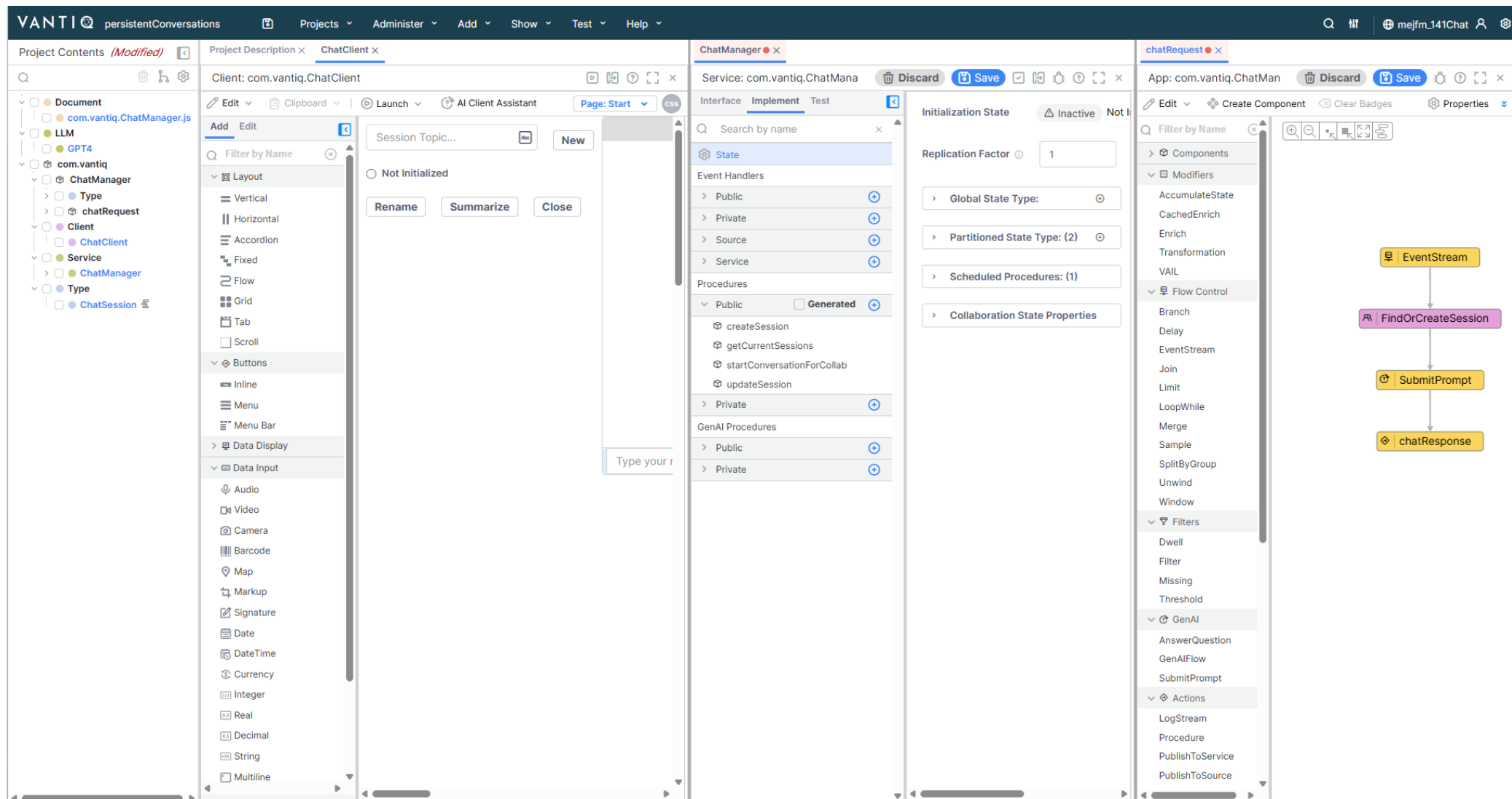
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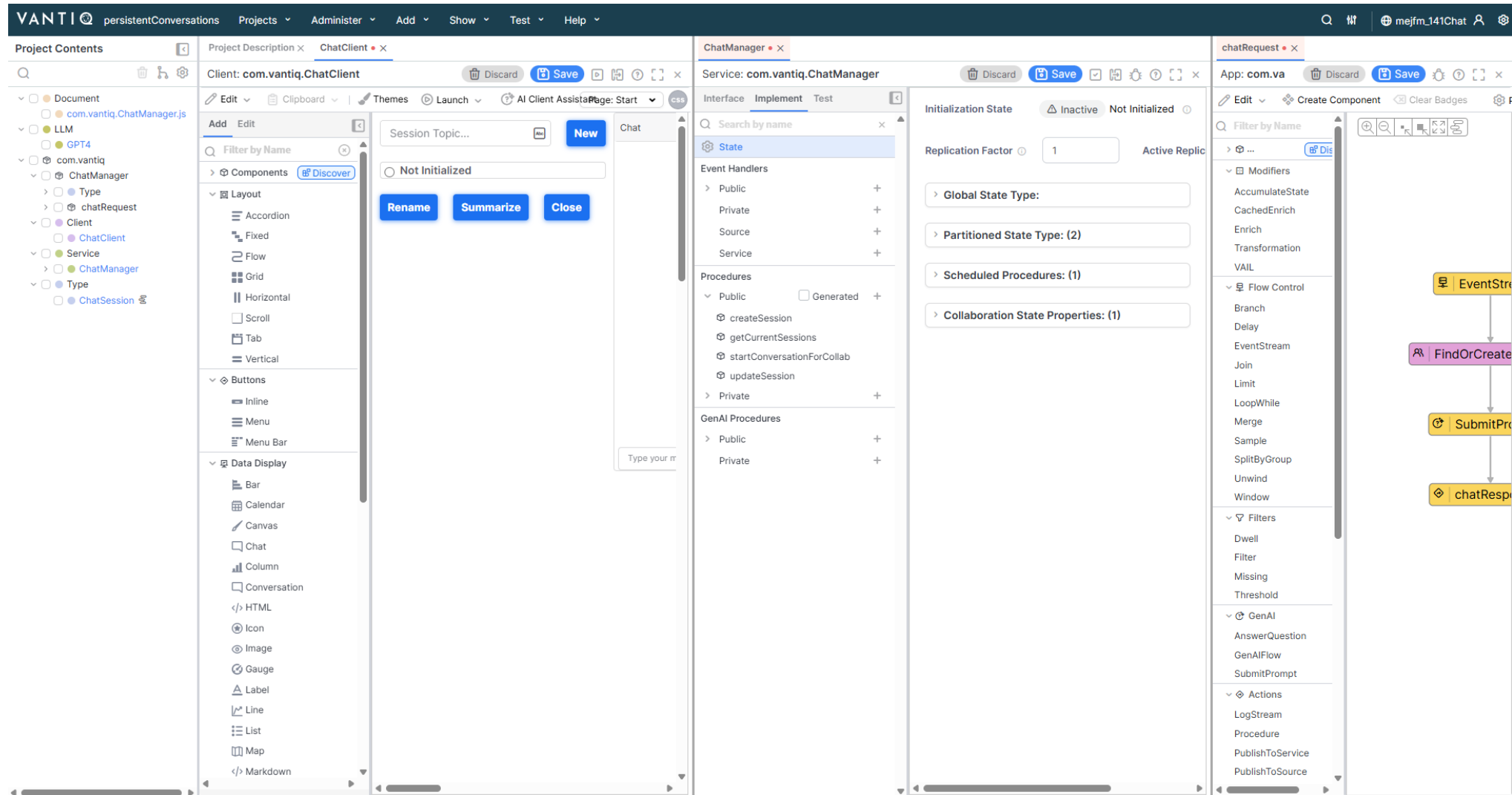
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1.41 IDE

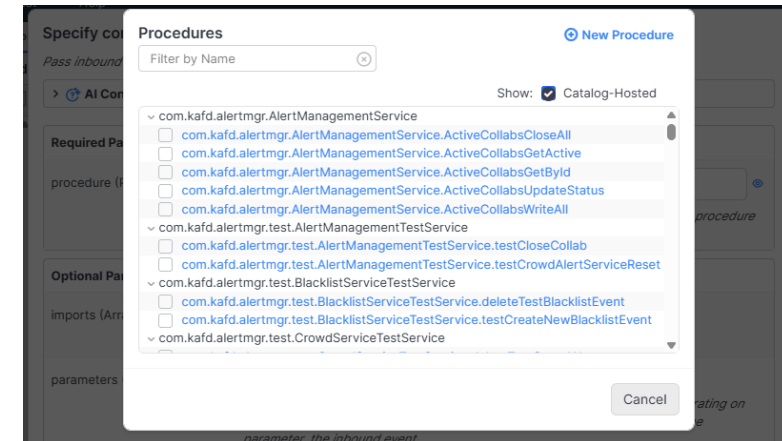
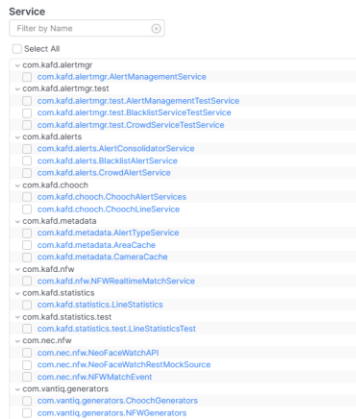


1.42 IDE

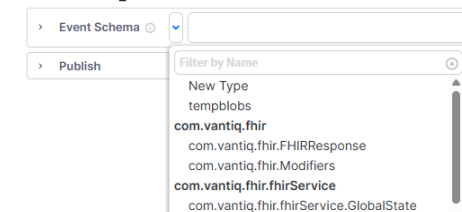


Resource Explorer Enhancements

- Resource Explorer popups now group by package and are collapsible to make finding resources easier

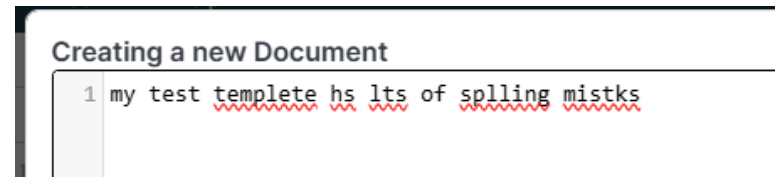
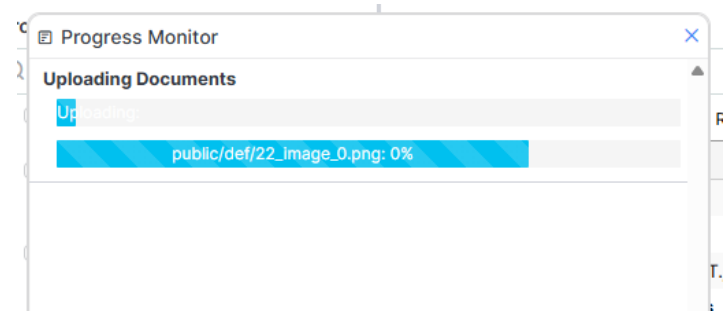
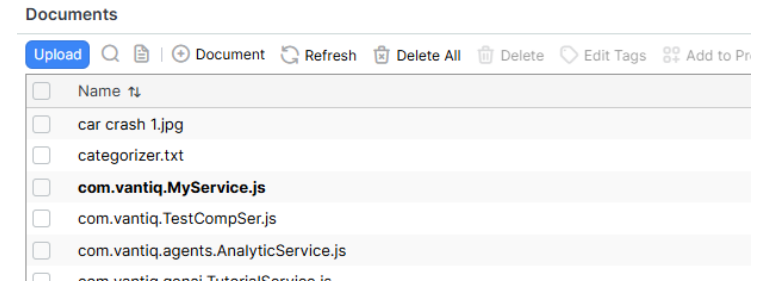


- Search capability added to additional resource explorers and selectors



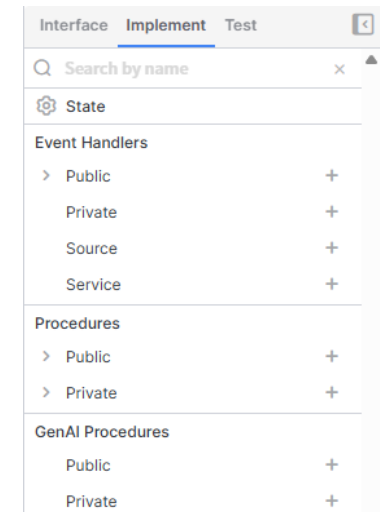
Document and Document Uploader

- Documents that are part of the project are now in bold
- Document uploader now has a floating, non-blocking progress window
- Text documents now have a spell checker - useful for templates



Service Builder Changes

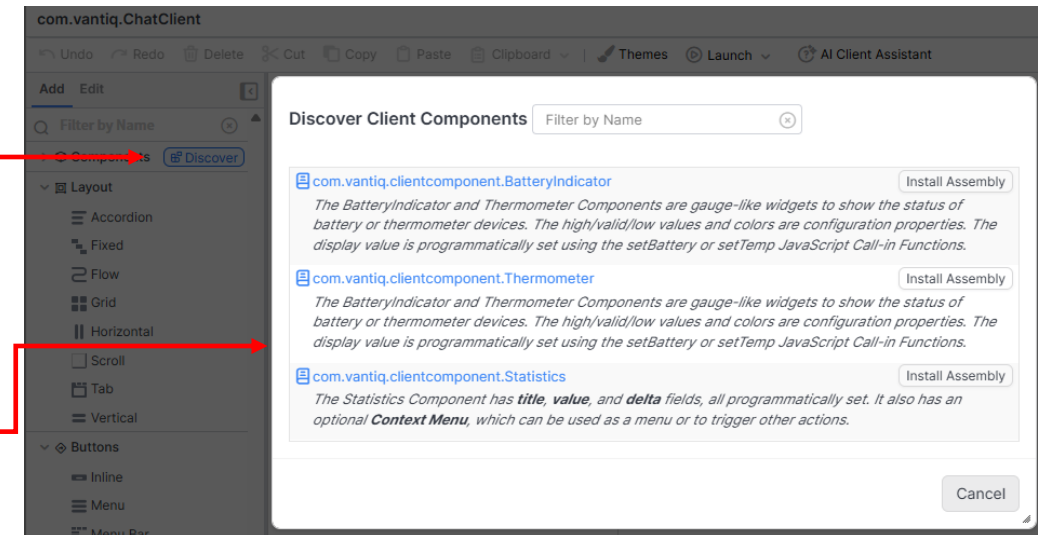
- The Implement tab is now the default whenever you open a service builder
- The Implement tab accordions are now empty (no dropdown icon) if there is nothing implemented yet. Remove confusion and additional clicks



Other IDE Enhancements

Component Discovery feature

- Prior to 1.42 the developer needed to know that there were components in an org or system level public catalog
- In 1.42 there is now a new ‘Discovery’ feature
 - Discover button in Client Builder (widgets and themes), Visual Event Handler, and GenAI Builder
 - This ‘Discovery’ feature will search the public catalogs for the correct component type



Feedback with loading NS or refreshing

- IDE now provides additional feedback when loading or refreshing a namespace

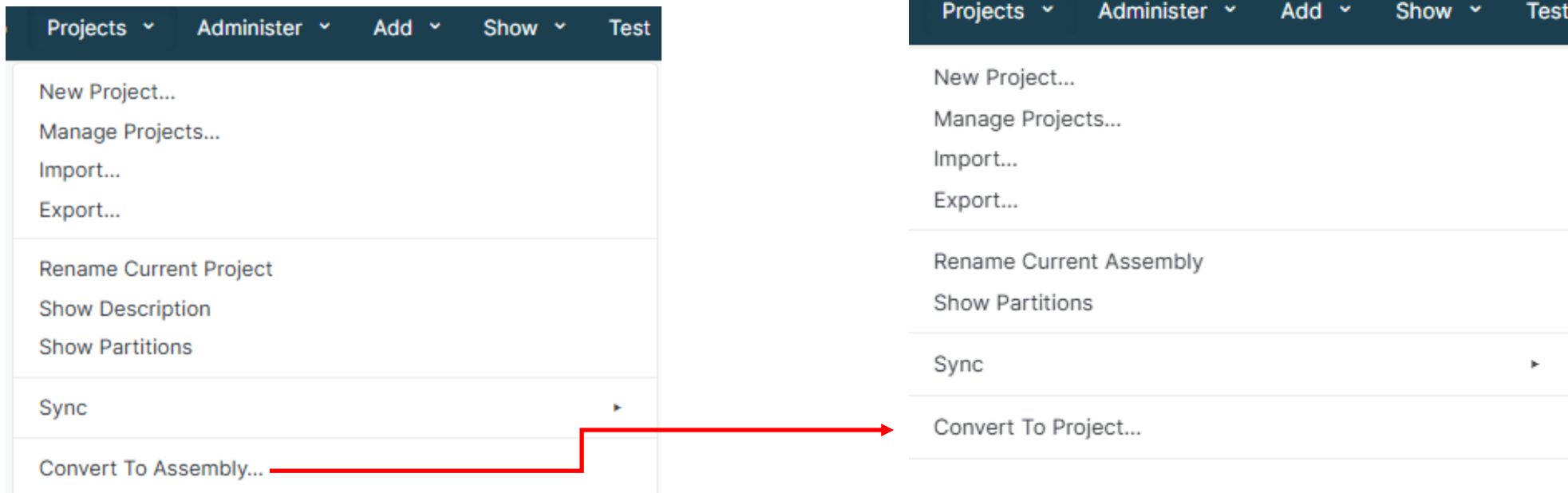
VANTIQ  *Loading resources...*

VANTIQ  *Curating resources...*

VANTIQ  *Refreshing authentication...*

Assembly Changes

- Now possible to convert an Assembly based Project back into a normal Project



Threshold Pattern now supports GenAI Generation

- GenAI Activity Patterns capability extended to Threshold

Specify configuration properties for Threshold Activity 'Threshold'

Threshold detects consecutive events crossing a threshold. The threshold is expressed as a condition, so crossing the threshold should be interpreted as the evaluation of the condition changing from true to false or false to true between consecutive events.

▼  **AI Configuration Assistant**

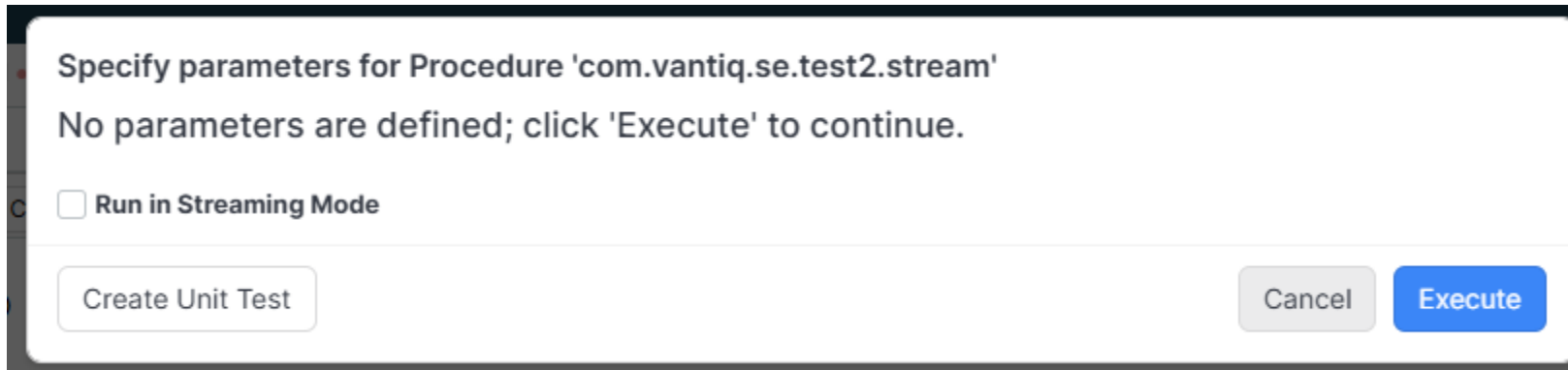
Enter a natural language description of what this task should do

[Generate Configuration Parameters From Description](#)

Required Parameter	Value
--------------------	-------

Other Changes

- Procedures can now be executed in 'streaming' mode



Specify parameters for Procedure 'com.vantiq.se.test2.stream'

No parameters are defined; click 'Execute' to continue.

☐ Run in Streaming Mode

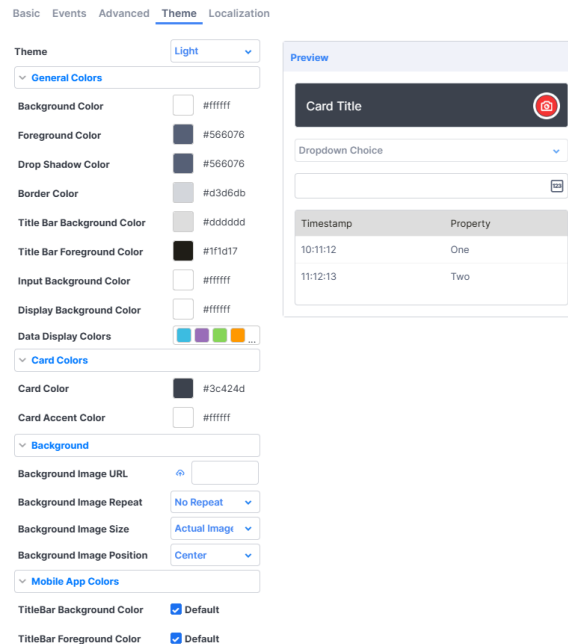
Create Unit Test

Cancel Execute

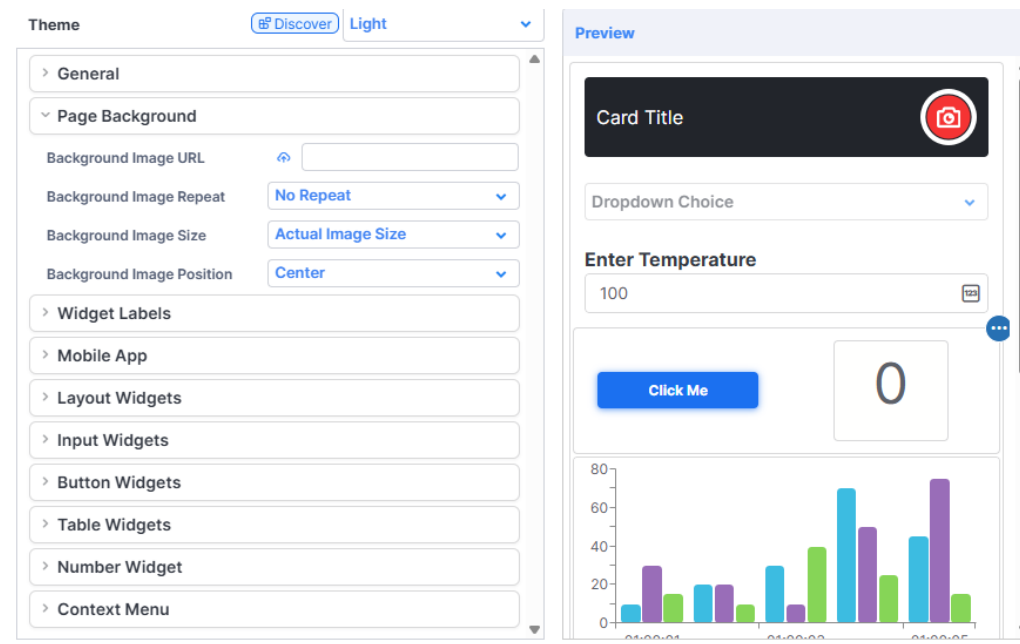
Client Builder Theming

Enhanced Theming options

- Massive increase in theming capabilities
 - 1.41 - 17 theme-able properties & 1.42 - 96 theme-able properties
 - Reduce reliance on CSS



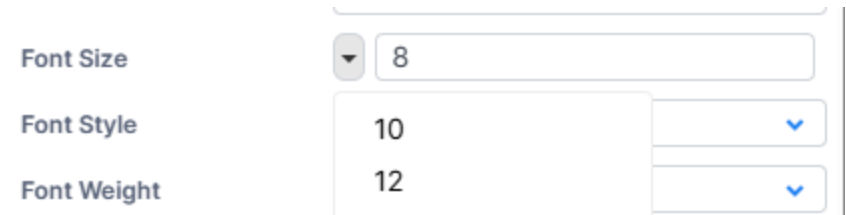
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Font

- Any font size can now be specified rather than just the set list

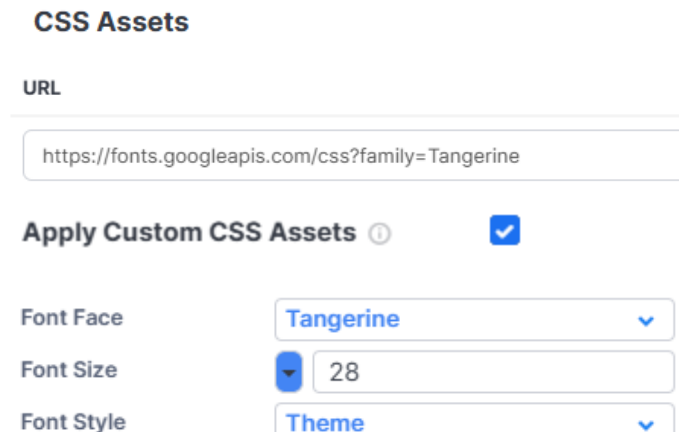


Font Size: 8

Font Style: 10

Font Weight: 12

- Support Custom fonts
 - Import your custom font via Custom Assets
 - Apply Custom CSS Assets
 - New font is visible in widget properties
 - Becomes visible in all clients
 - So, must import the asset anywhere it is used



CSS Assets

URL: <https://fonts.googleapis.com/css?family=Tangerine>

Apply Custom CSS Assets ☒

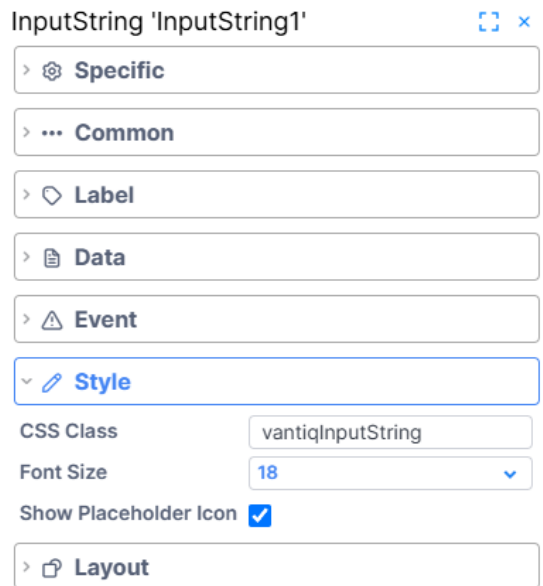
Font Face: Tangerine

Font Size: 28

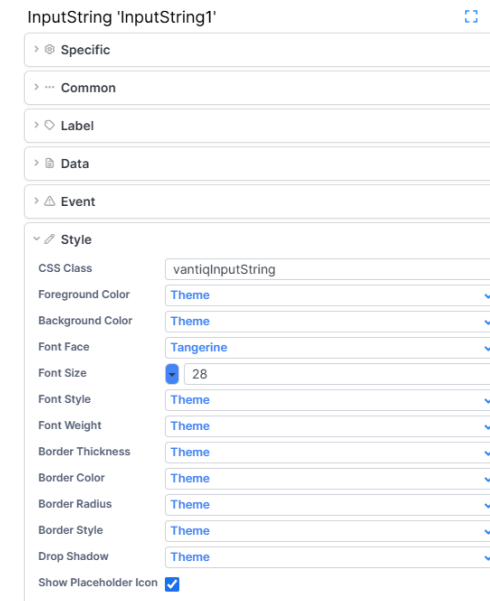
Font Style: Theme

Widget Properties

- As well as additional Themed Properties, each widget now has a large number of additional style properties
 - The majority are now set to 'Theme' by default



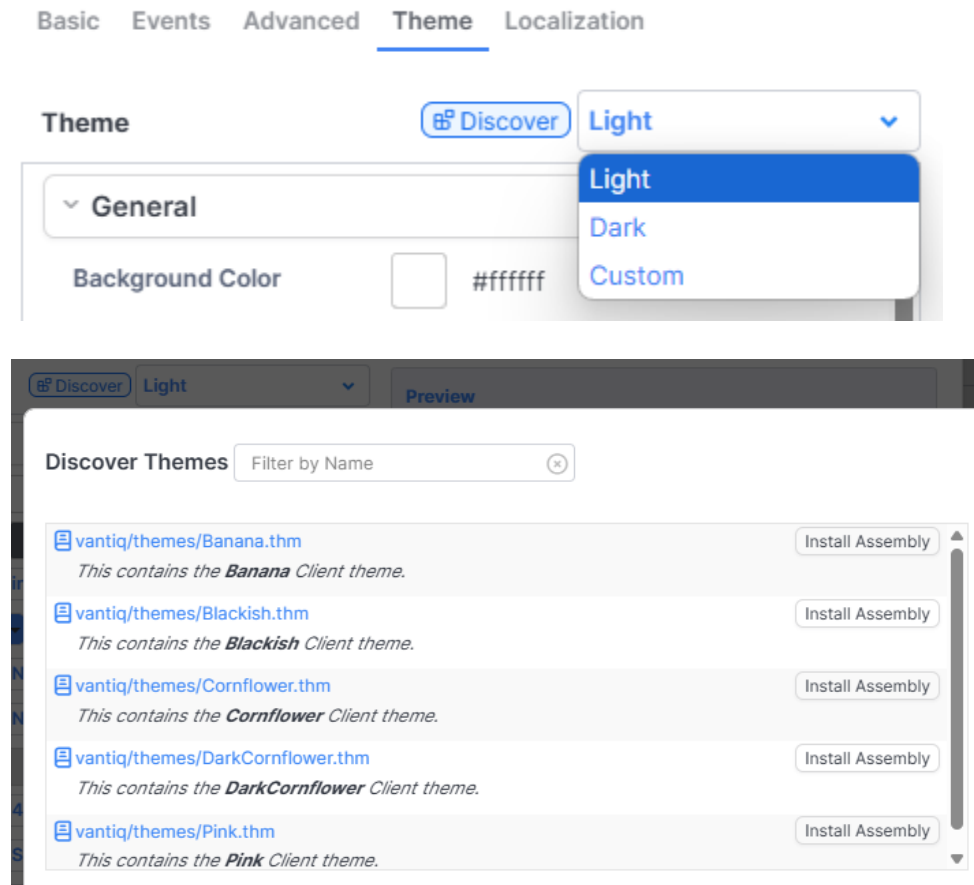
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Other Theme related changes

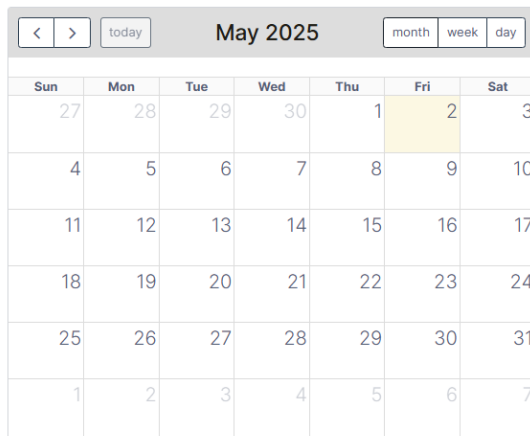
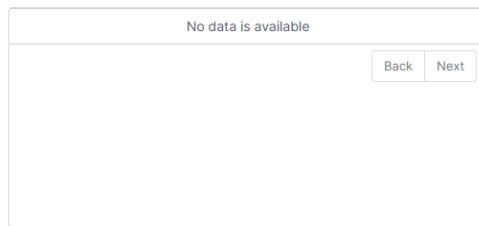
- Now only 2 Themes by default - Light and Dark
- The other Themes are now in the component public catalog and can be discovered



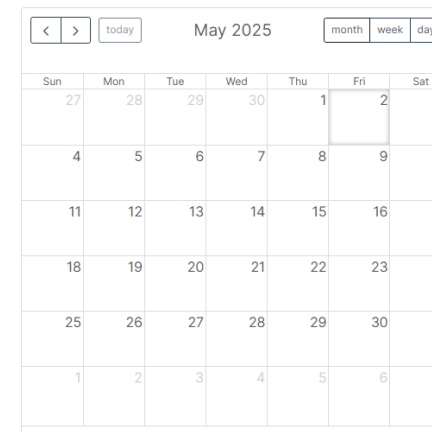
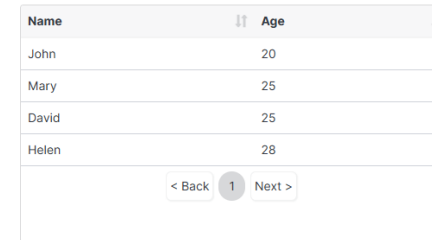
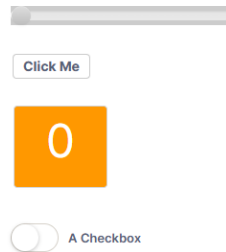
Client Builder Widget Changes

Widget Restyling

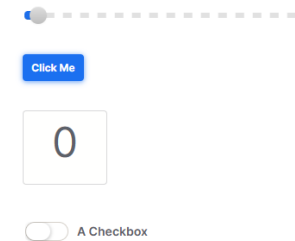
- Many of the widgets have had their styles updated and made to be more uniform, better out-of-the-box look and feel



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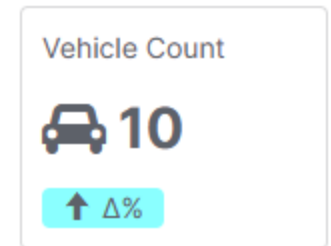


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New Widgets and Components

- New Segmented Control
 - Array of segments with a value and label
 - 'on segment change' event handler
- New Statistics component
 - Must be installed via the Discovery UI
 - Title, value, and delta counter and associated icons
 - Values updated using configuration



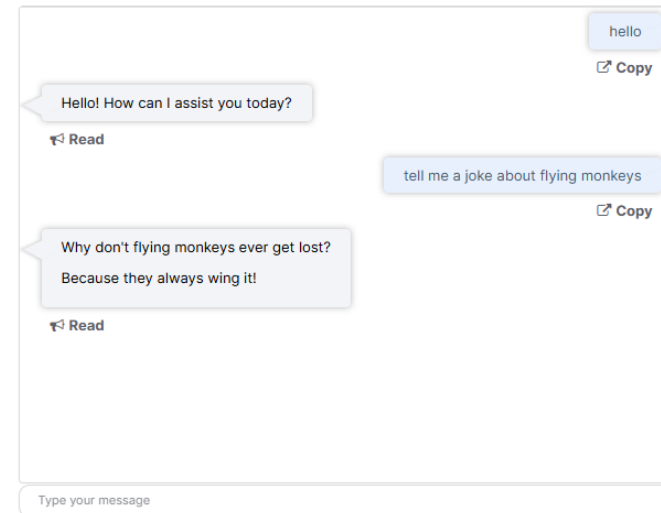
```
var Stats1 = client.getWidget("Stats1");  
Stats1.configuration.valueText = "56";
```

Conversation Widget

- New styling capabilities
- Action Buttons
 - User, System, and Last
 - Inline or floating
- Ability to control which msg types are shown

Select Conversation Message Types to be Shown

Message Type	Shown?
human ⓘ	☒
ai ⓘ	☒
chat ⓘ	☒
system ⓘ	☐
function ⓘ	☐
tool ⓘ	☐



Style	
CSS Class	vantiqChat
Foreground Color	Theme
Background Color	Theme
Title Bar Foreground Color	Theme
Title Bar Background Color	Theme
'Send' Icon	fa-send
Font Face	Theme
Font Size	13
Font Style	Theme
Font Weight	Theme
Border Thickness	0
Border Color	Theme
Border Radius	4
Border Style	Theme
Drop Shadow	Theme
Background Image URL	Theme
Background Image Repeat	Theme
Background Image Position	Theme
Background Image Size	Theme
Show Title Bar	☐
Toolbar Gap	1
Body Border Thickness	1
Body Border Color	Theme
Body Border Radius	Theme
Body Border Style	Theme
Send Border Thickness	1
Send Border Color	Theme
Send Border Radius	10
Send Border Style	Theme

Conversation Widget cont.

- Bound to VAIL Procedure and GenAI Procedure
- Can set conversationId and name
 - New `client.setCollaborationContext()` to reset collaboration
- ‘On Filter Conversation Message’ event handler, which is fired when a new msg arrives and allows you to modify the msg before it is displayed
- Support new ‘Human in the Loop’ callback mechanism, see later

Other widget enhancements

- Calendar Widget now supports the ‘on select’ event handler
- Context Menu/Blue Dot is now more flexible
 - Change the anchor point, size, font, icon, and colours

Edit Context Menu Items

Anchor Point	Top Right	X Offset	0	Y Offset	0
Icon	Theme	Button Size	24		
Foreground Color	Theme	Background Color	Theme		
Font Face	Theme	Font Size	Theme		
Font Style	Theme	Font Weight	Theme		



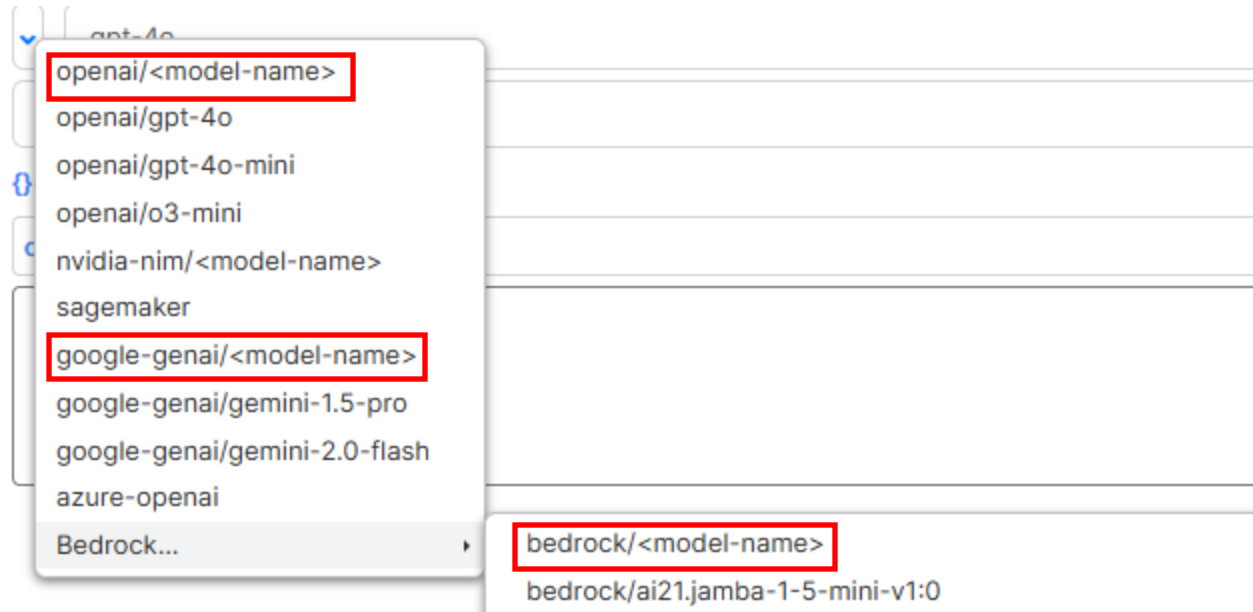
Generative AI Enhancements

Guardrails support in GenAI Builder

- Added support for three flavours of Guardrail
 - GuardrailsAI - A local implementation of the Guardrails-AI toolkit with a limited set of Validators
 - BanList - Catches words explicitly included in a ban list.
 - DetectPII - Catches identifying information such as names, email addresses, etc
 - LowerCase - Catches upper-case letters. Mostly intended for testing.
 - ProfanityFree - Catches profanity.
 - RestrictToTopic - Catches sentences that either cover banned topics or don't cover allowed topics.
 - GuardrailsAI Server - use an external server and support any validator supported by the server
 - Nvidia NeMo Guardrails - An implementation of Nvidia's NeMo Guardrails toolkit.
- New Guardrails tutorial

LLM Generative Model list

- The LLM list now adds <ModelName> options to OpenAI, Google Gemini, similar to AWS Bedrock
 - Make it easier to support the new models and more obvious to the developer what is required



Conversation Memory enhancements

- The Conversation Memory service now emits a series of events based on state changes
 - `conversationStarted`
 - `conversationUpdated`
 - `conversationEnded`
- Each conversation has an opaque set of properties, including system properties `'ars_namespace, ars_createdAt, ars_createdBy, ars_modifiedAt, ars_modifiedBy'`. Two new procedures have been added to manage these properties
 - `getConversationProperties(conversationId String)`
 - `setConversationProperties(conversationId String Required, properties Object Required, replace Boolean)`

Human in the Loop - Notify

Human in the Loop - Callback

- LLM and AI Agent will often want to request more information or request permission to perform some action from the user
- A new 'callback' feature has been implemented in the server
 - The Conversation Widget also integrates with this feature
 - This feature requires an active Conversation widget bound to the conversation at the point the callback is executed

```
// Ask the user if it is OK to rename the current session based on the suggestion
var prompt = "I'd like to update the topic of this session to be '" + suggestedTopic + "'. Is this OK?"
try
{
    log.info("invoke callback " + conversationId)
    var response = io.vantiq.Callback.invoke(conversationId, prompt, 1 minute)
    log.info("invoke callback returned" + stringify(response))

    // Right now we just accept a simple yes (could get fancy and have an LLM tell us if the response is positive or not)
    if (response.input.toLowerCase() == "yes") {
        // The session info lives in the "entities" section of the collaboration, grab that and update it
        var entities = ChatManager.ActiveCollabsGetById(conversationId, "entities")
        var session = entities.chatSession
        session.topic = suggestedTopic
        ChatManager.chatSessionUpdateActive(session.id, session)
    }
}
catch (error)
{
    log.info("Got a timeout " + error.message)
}
```

Callback cont.

```
// Ask the user if it is OK to rename the current session based on the suggestion
var prompt = "I'd like to update the topic of this session to be '" + suggestedTopic + "'. Is this OK?"
try
{
    log.info("invoke callback " + conversationId)
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        var session = entities.chatSession
        session.topic = suggestedTopic
        ChatManager.chatSessionUpdateActive(session.id, session)
    }
}
catch (error)
{
    log.info("Got a timeout " + error.message)
}
```

- conversationId to communicate the callback request to
- prompt to be sent to the conversation
- timeout

The response is the txt that the user send in the conversation widget

An exception will be thrown if the user doesn't respond within the timeout period

Semantic Index Changes

- Selecting Semantic Index no longer returns the entries

```
var SI = select * FROM system.semanticindexes where name == "com.vantiqse.DefenceDemo.LLMs.BlueForceAssets"
```

Execution of 'com.vantiqse.DefenceDemo.LLMs.SIService.getSI' complete

```
{
  "_id": "668f803b5ed5ef20a654c20b",
  "name": "com.vantiqse.DefenceDemo.LLMs.BlueForceAssets",
  "embeddingModel": "com.vantiqse.DefenceDemo.LLMs.EmbeddingLLM",
  "databaseConfig": {},
  "ars_namespace": "mejfm_DefenceLLMDemoV1",
  "ars_version": 173,
  "ars_createdAt": "2024-07-11T06:48:27.158Z",
  "ars_createdBy": "a74bdc76-ebd5-420c-902d-220151bb80dd",
  "ars_modifiedAt": "2024-07-15T16:21:22.154Z",
  "ars_modifiedBy": "a74bdc76-ebd5-420c-902d-220151bb80dd",
  "ars_relationships": [],
  "entries": [
    {
      "_id": "66f847c00e539e129d6fb1df",
      "id": "AN TWQ-1",
      "metadata": {
        "name": "AN TWQ-1",
        "classification": "Air Defense & Mortars",
        "calibre": "70 mm",

```

Execution of 'com.vantiqse.DefenceDemo.LLMs.SIService.getSI' complete

```
{
  "_id": "68139fc54ecc342c7faa5393",
  "name": "com.vantiqse.DefenceDemo.LLMs.BlueForceAssets",
  "embeddingModel": "com.vantiqse.DefenceDemo.LLMs.EmbeddingLLM",
  "databaseConfig": {},
  "ars_namespace": "mejfm_142Testing",
  "ars_version": 1,
  "ars_createdAt": "2025-05-01T16:22:29.020Z",
  "ars_createdBy": "d9080d68-3990-4631-835e-d11a3e328e88",
  "ars_relationships": []
}
```

```
var SIentries = select * FROM ArsSemanticIndexEntry where indexName == "com.vantiqse.DefenceDemo.LLMs.BlueForceAssets"
```

Execution of 'com.vantiqse.DefenceDemo.LLMs.SIService.getSIentries' complete

```
{
  "_id": "68139fc54ecc342c7faa5394",
  "id": "AN TWQ-1",
  "metadata": {
    "name": "AN TWQ-1",
    "classification": "Air Defense & Mortars",
    "calibre": "70 mm",
    "url": "https://en.wikipedia.org/wiki/AN/TWQ-1_Avenger",
    "specification": "Self-propelled SHORAD",
    "id": "AN TWQ-1",
    "url": "https://en.wikipedia.org/wiki/AN/TWQ-1_Avenger"
  },
  "uri": "https://en.wikipedia.org/wiki/AN/TWQ-1_Avenger",
  "status": "loaded",
  "detailedStatus": null,
  "indexName": "com.vantiqse.DefenceDemo.LLMs.BlueForceAssets",
  "ars_namespace": "mejfm_142Testing",
  "ars_createdAt": "2025-05-01T16:22:29.032Z",
  "ars_createdBy": "d9080d68-3990-4631-835e-d11a3e328e88"
}
```

Qdrant DB Changes

- Within a Vantiq Cluster, the Qdrant DB now supports high availability
 - Collections are now sharded across the Qdrant cluster
 - By default, we now run a 3-node Qdrant cluster
 - Each collection is split into six parts (shards), each part is stored redundantly on two nodes (replication), and only one of those nodes needs to confirm a write before it's considered successful (consistency)
- Backups handled via a script to take a snapshot of each collection and tar

The background of the slide features a light blue and white abstract pattern of wavy lines and small dots, resembling a topographical map or a data visualization. A solid dark blue horizontal band is positioned in the middle of the slide, serving as a backdrop for the title text.

Collaboration Changes

Collaboration Changes

- Entity Roles are now scoped to the Service.
 - If you have two entity roles 'customer' on two services, they are separate entity roles now
- Entity Roles can now have accessor procedures generated
 - These can be used to update entity roles outside Visual Event Handlers

Edit List of Entity Roles

Entity Roles define variable references that are used by activities and services.

[+ Add an Entity Role](#)

Variable Reference	Of Type	Actions
sensor	com.vantiq.CollabTest.Cr	    

Generate Entity Role Procedures for Property 'sensor'

- ☒ **Activate** *Activate a collaboration for the given instance of the Entity Role.*
- ☒ **Close** *Close the active collaboration associated with a given instance of the Entity Role.*
- ☒ **Get Active** *Return all the currently active collaborations associated with the Entity Role.*
- ☒ **Update Active** *Update the specified instance of the Entity Role in its active collaboration (if one exists).*

Establish Collaboration new parameters

- Two additional parameters on Establish Collaboration
 - collaborationName - allows you to override the default name for the collaboration
 - entityValue - VAIL expression to define the entity value - overriding the default which is the whole event

Specify configuration properties for EstablishCollaboration Activity 'EstablishCollaboration'

Ensures that only one collaboration is created for the entity role specified by the roleName. Depending on the selected behavior this will either establish the context for an existing collaboration or filter out events for a matching collaboration.

> AI Configuration Assistant

Required Parameter	Value
behavior (Enumerated)	Establish existing collaboration <i>The behavior for the task if it finds a matching collaboration for the entity. "Establish existing collaboration" will find a matching collaboration for the entityId if one exists and execute any downstream tasks in the context for that collaboration. "Establish existing collaboration or create new collaboration" will behave the same as "Establish existing collaboration", however if a matching collaboration is not found, a new one will be opened. "Do not open multiple collaborations for one entity" will filter out any events with a matching entityId to prevent creating more than one open collaboration for that entity.</i>

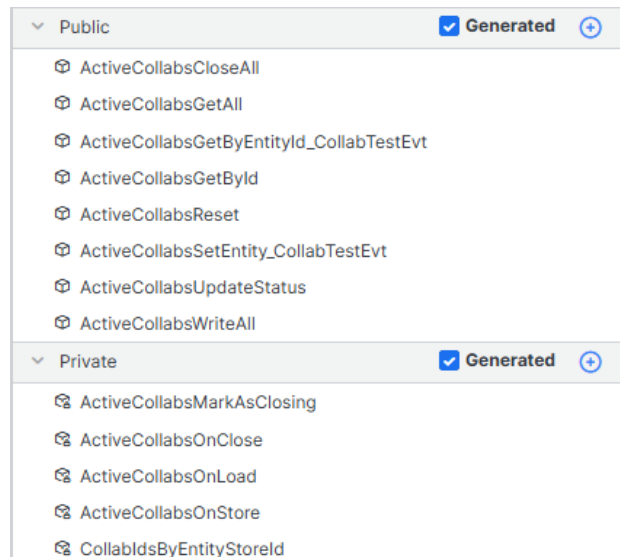
Optional Parameter	Value
roleName (Enumerated)	sensor <i>The name of the entity role. If this is not set, collaborationId must be set.</i>
entityId (VAIL Expression)	event.sensorId <i>The expression used to determine the id of the entity being assigned. i.e: event.machinId or event.farmId + event.barnId. If this is not set, collaborationId must be set.</i>
collaborationId (VAIL Expression)	VAIL Expression <i>The collaborationId of the collaboration to retrieve. Only legal if behavior is set to "Establish existing collaboration". Ignored if both entityId and roleName are set. If this is not set, both entityId and roleName must be set.</i>
collaborationName (VAIL Expression)	VAIL Expression <i>The name that will be assigned if (and only if) this task creates a new collaboration instance. By default it will be set to the name of the calling event handler.</i>
entityValue (VAIL Expression)	VAIL Expression <i>The expression used to determine the entity value set when creating a new collaboration. The value is ignored when establishing an existing collaboration. By default, the entire event will be used as the entity value.</i>

Cancel OK

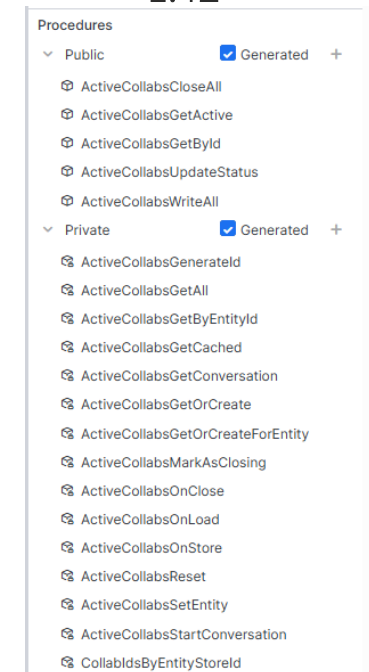
Collaboration Generated Procedures

- The generated procedures for managing collaboration have been renamed, increased, reorganised, and commented
 - This change could break existing applications that use the now-private procedures or the missing ‘per task’ procedures

1.41



1.42



Collaborations and conversational memory

- Collaboration already supports caching and persistence
 - Conversations are an in-memory structure
 - Collaborations are the mechanism to persist conversational memory
- Enhancements to the generated Collaboration procedures and the enhancements to the conversation widget are designed to make this process easier
 - Also, additional features were added to the Client framework to support switching Collaboration to restore the Conversation Widgets state from a collaboration
- An example application and documentation to follow

Miscellaneous Enhancements

The two minute execution limit

- Prior to 1.42, the default execution limit was two minutes, which included GenAI Procedures
- The default limit is now 2 hours

Assembly Enhancements

- GenAI Procedures (via a service) and GenAI Components can now be made visible within the Assembly definition
- Custom Assembly Configurations
 - A “Custom Generation Procedure” can be defined in an Assembly definition
 - The purpose of the procedure is to perform programmatic configuration changes to the assembly configuration at installation time.
 - Such as adding or configuring complex or derived properties
 - Enabling and disabling source based on the configuration

Custom Generation Procedure details

Custom Generation Procedure

(Create or edit a Procedure used when processing inserts or updates on the Assembly configuration.)

```
15
16 //
17 // BEGIN CUSTOM ASSEMBLY GENERATION CODE
18 // referenceable variables:
19 // - assembly: Original definition of this assembly (an instance of system.projects)
20 // - assemblyconfig: The assemblyconfig instance for this assembly
21 // - configValues: an Object mapping configuration property names to their value
22 // - configMappings: an Object mapping the configuration property name to a list of resource properties
23 //
24 // In general, you should manipulate configValues object to add mappings from the derived configuration property
  name
25 // to its derived value. Then you must add an entry to the configMappings object, setting the key to the derived
26 // configuration property name and listing any resource properties the derived property will be used to configure.
27 // e.g. "configValues.derivedValue = configValues.num1 + configValues.num2" and
28 // "configMappings.derivedValue = [{resource: "sources", resourceId: "mySourceName", property:
  "config.connectionTimeout"}]"
29 //
30
31
32 //
33 // END CUSTOM ASSEMBLY GENERATION CODE
34 //
35
36 // Verify that all required properties have had values supplied
37 for (configProperty in assembly.configurationProperties) {
38     var configPropName = configProperty.key
39     var configProDesc = configProperty.value
40     if (configProDesc.required && configValues[configPropName] == null) {
41         exception("is vantiq resource configuration missing required property")
42     }
43 }
```

Cancel

OK

Track activity pattern changes

- The destination and waypoint properties on the Track activity pattern are now VAIL expressions

Edit union parameter 'destination'

destination Type: Explicit Destination ▼

destination: Click to Edit

Explicit Destination

Variable Destination

Edit union parameter 'waypoints'

waypoints Type: Expression ▼

waypoints: VAIL Expression

Literal Array

Expression

Cancel OK

State Management Updates

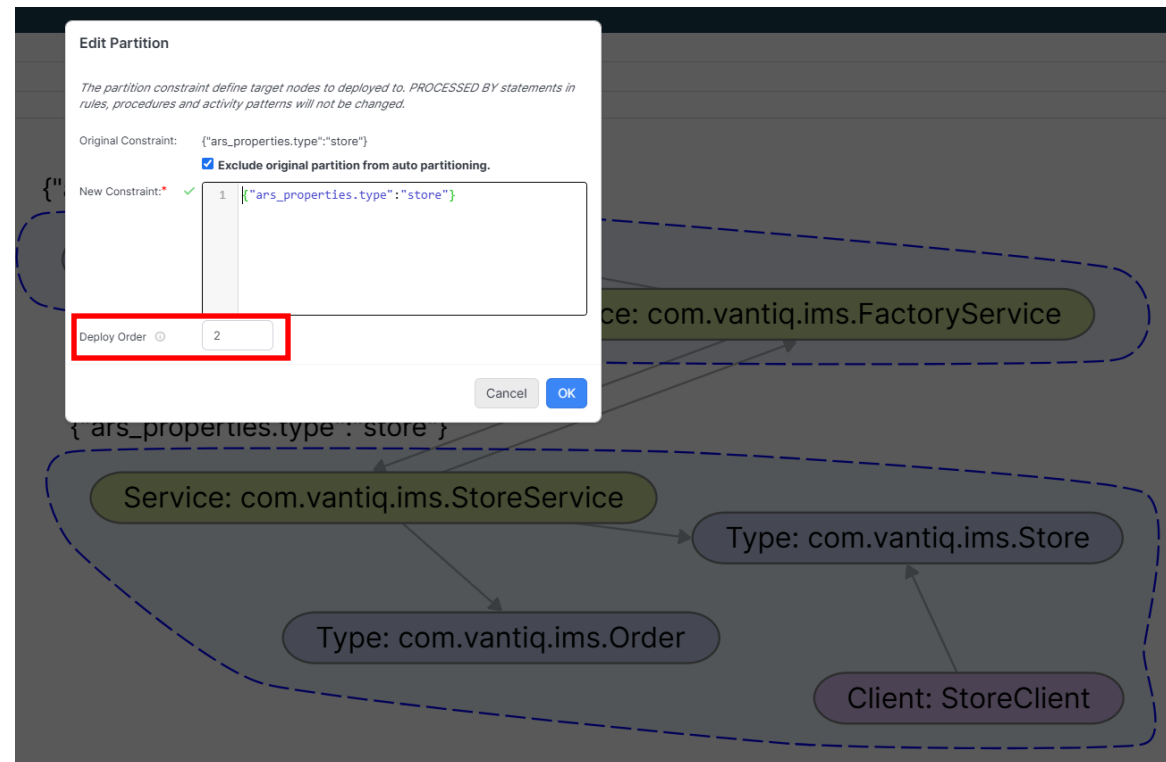
- When invoking a private procedure from a Service Event Handler or from a service procedure with a conflicting state access modifier, you can now add the partition key

```
var partitionKey = event.value.keyProperty
EXECUTE privateProc() WITH partitionKey = partitionKey
```
- New State Management document in the help

Administration & Deployment

Deployment Order

- Partitions can now have a deployment order
 - Any partition with the same deployment order will be deploy in parallel



FHIR Assembly

FHIR Assembly

- New FHIR Assembly via a public catalog
- Service integrates a FHIR Rest API

Events and Procedures

- Inbound
- ← Outbound
- Procedures
 - com.vantiq.fhir.fhirService.bundleInteraction
 - com.vantiq.fhir.fhirService.create
 - com.vantiq.fhir.fhirService.delete
 - com.vantiq.fhir.fhirService.getCapabilityStatement
 - com.vantiq.fhir.fhirService.getSMARTConfiguration
 - com.vantiq.fhir.fhirService.getUDAPConfiguration
 - com.vantiq.fhir.fhirService.history
 - com.vantiq.fhir.fhirService.patch
 - com.vantiq.fhir.fhirService.read
 - com.vantiq.fhir.fhirService.returnLink
 - com.vantiq.fhir.fhirService.searchCompartment
 - com.vantiq.fhir.fhirService.searchSystem
 - com.vantiq.fhir.fhirService.searchType
 - com.vantiq.fhir.fhirService.update
 - com.vantiq.fhir.fhirService.useAccessToken
 - com.vantiq.fhir.fhirService.vread

Service com.vantiq.fhir.fhirService
Procedure create
Description Create a new FHIR resource instance
Return Type com.vantiq.fhir.FHIRResponse
Parameters

Name	Type
type	String
resource	Object
versionId	String
modifiers	com.vantiq.fhir.Modifiers

Edit Assembly Configuration

This Assembly has the following configuration parameters which should be provided before the Assembly can be installed. The Default value, if any, will be used if an Override value is not provided.

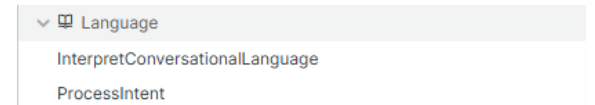
Name	Type	Required	Override	Default	Description
authenticationMechanism	Enumerated	☐	Use Default Value	None	Type or mechanism of authentication
basicAccessToken	String	☐	☐ Use Null		Access token to use for Basic authent
basicPassword	String	☐	☐ Use Null		Password to use for Basic authenticat
basicRealm	String	☐	☐ Use Null		Realm to be used with the basicAcces
basicUsername	String	☐	☐ Use Null		Username to use for basic authentica
defaultSearchHttpMethod	Enumerated	☐	Use Default Value	GET	HTTP Method to use for search. The f
fhirServerBaseUrl	String	☒	☐ Use Null		URL for connection to FHIR server. Th
oauthActive	Boolean	☐	Use Default Value	☐	Whether the oauth source should be i
oauthAudience	String	☐	☐ Use Null		The audience specification for the OA
oauthClientId	String	☐	☐ Use Null		Client ID to use with OAuth authentic
oauthClientSecret	String	☐	☐ Use Null		Client Secret for use with OAuth Auth
oauthGrantType	Enumerated	☐	Use Default Value		Grant type to be used for OAuth Auth
oauthRefreshToken	String	☐	☐ Use Null		Refresh Token supplied to the user w
oauthScope	String	☐	☐ Use Null		Scope used by OAuth authentication
oauthServerUrl	String	☐	☐ Use Null		URL OAuth server associated with thi
oauthSourceName	Enumerated	☐	Use Default Value		Name of the source to use for OAuth i
oauthUseBasicAuth	Boolean	☐	Use Default Value	☐	This tells Vantiq to package the client

Cancel OK

Deprecated Functionality

NLP capabilities

- The built-in Microsoft NLP capabilities have now been deprecated
- They have been replaced with an Assembly that is in the public catalog. These Components replace the built-in capabilities
 - Use Visual Event Handler Discovery to find the new NLP Assembly



Discover App Components

Filter by Name



 [com.vantiq.nlp.InterpretCLU](#)

Install Assembly

This assembly adds conversational language capability to the namespace. This capability works in conjunction with an external natural language interpreter to understand an utterance. The com.vantiq.nlp.InterpretCLU component enables this in an event handler.

1.43 Plans

Hight level focus

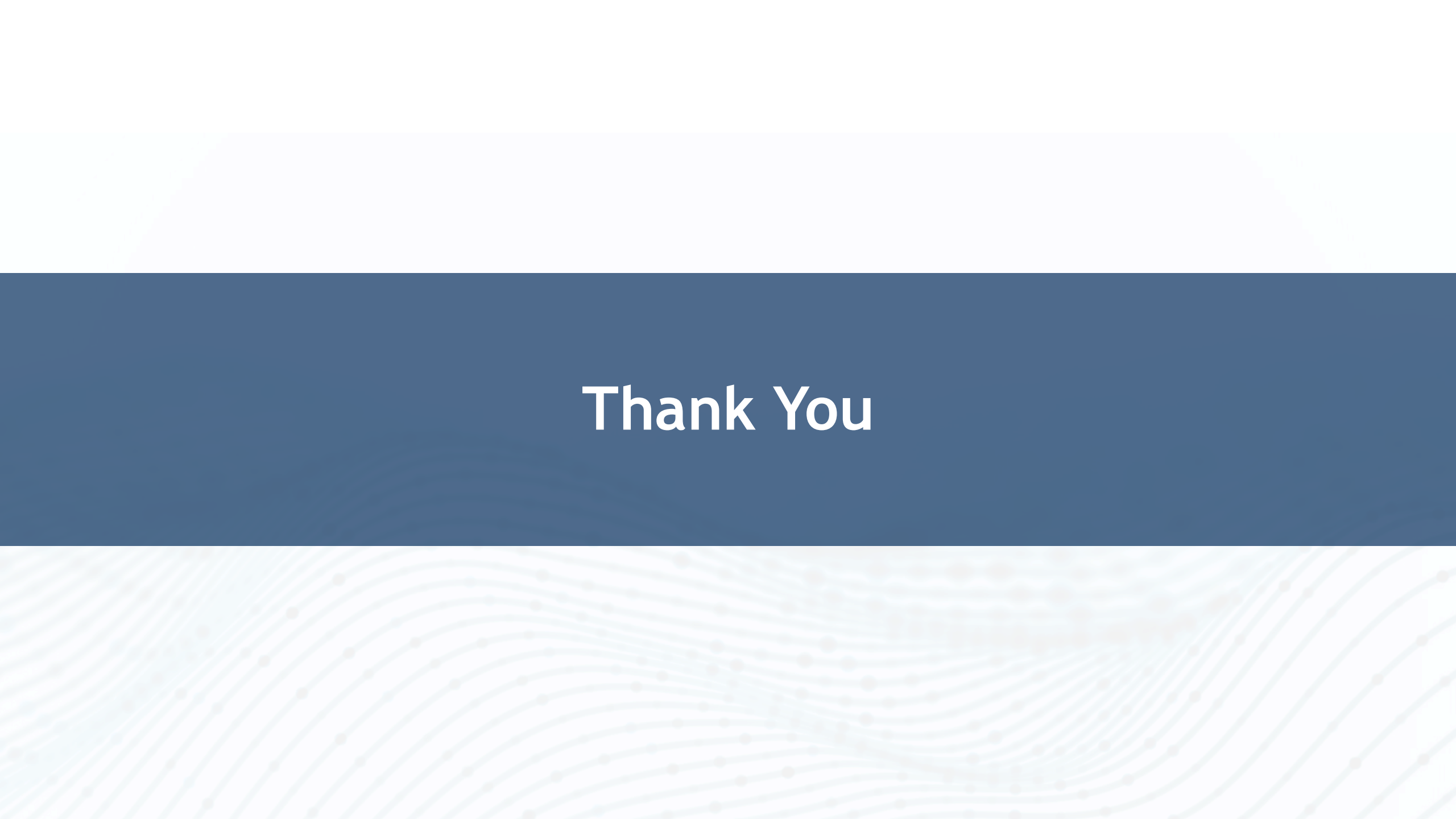
- Enhancing the GenAI capabilities within the IDE
 - Adds a series of AI Agents not only for the user to interact with, but also Agents that will watch what is happening within the IDE and respond
 - This will be a single unified chat interface
- Server enhancements to better support Multi-Agent Systems

Usability Enhancements

- Improve the migration of GenAI components in the GenAI Flow
- Improve Service Code Generation UI
- Other minor UI/UX improvements
- Improve/Enhance the Version Control Capabilities
- App and GenAI Builder refresh - stretch goal

Server Enhancements

- Support for MCP in the GenAI Builder
- Support for Google A2A protocol
- Support for Agent discovery (extension to A2A discovery)
- Common MAS Patterns - including better loop and join support



Thank You