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| --- | --- | --- | --- | --- |
| **Customer:** | Allegro | **Exhibit Number:** |  | |
| **Project:** | - | **Exhibit Date:** |  | |
| **Component:** | - | **SOW ID:** |  | |
| **Title:** | AllegoU AddOn | **Extension ID:** |  | |
| **Author:** | Missi Yossica | **Development Estimate:** |  | **hours** |
| **Principal Approval:** |  | **Test Estimate:** |  | **hours** |
| **Customer Approval:** | Allegro | **Total Estimate:** |  | **hours** |

This Extension Specification defines a software extension for the customization of Allegro software to specific user requirements. Approval of this Extension Specification may be by signature below or by email response. Performance of this extension will be dependent upon the network infrastructure in the deployment environment. If the details of this specification change materially after approval, a Change Order will be required, and project duration and cost may change significantly.

# Scope

| **Scope Doc** | **Ext. ID** | **Component** | **Extension** | **Type** | **Scope Description** |
| --- | --- | --- | --- | --- | --- |
|  |  |  | AllegroU AddOn | Data Model, Visual Model, Web Services | 1. The AllegroU AddOn represents tools that can be added to Allegro 8 to provide easy access to knowledge to the user, directly from the application.  * The AddOn tools should display as a menu item that appears in the Ribbon on every view in Allegro * The AllegroU menu item will contain the following 3 function icons  1. Video Capture : This button will launch the Qumu video capture tool 2. Video Help : Will display a list of business processes, reflective of the view the user is on 3. Search : The search tool will allow the user, from the Application, to simultaneously search AllegroU, Allegro Online Help as well as the Allegro Knowledge base. 4. Viewer Portal : This button will launch the URL as defined in the config key Server Manager with key AllegroUVideoPortal. |

# Document Version History

| **Version** | **Author** | **Date** | **Version Changes** |
| --- | --- | --- | --- |
| 01 | Missi Yossica | 03/16/2017 | **Initial version** |
| 02 | Missi Yossica | 03/17/2017 | **Vertion 1 : Add objective for new entry toolclick in Help Icon** |
| 03 | Missi Yossica | 03/20/2017 | **Vertion 2 : remove new entry toolclick in Help Icon and add new button Viewer Portal to AllegroU Ribbon Tab** |
| 04 | Missi Yossica | 03/23/2017 | **Vertion 3 : Change label name for some view columns** |
| 05 | Missi Yossica | 04/12/2017 | **Vertion 4 : Add search from Allegro Online Help** |
| 06 | Missi Yossica | 06/06/2017 | **Vertion 5 : Add procedure for Video Help** |

# Summary

## Objectives

1. The AllegroU AddOn represents tools that can be added to Allegro 8 to provide easy access to knowledge to the user, directly from the application.
2. The AddOn tools should display as a menu item that appears in the Ribbon on every view in Allegro
3. The AllegroU menu item will contain the following 4 function icons : Video Capture, Video Help, Search Terms, and Viewer Portal

## Primary Users

Primary users for this extension are the following: Allegro.

## Business Processes

1. Click on Video Capture will launch the Qumu video capture tool.
2. Click on Video Help will display a list of business processes which have a link to AllegroU Video.
3. Click on Search Terms will display a list of search terms and simultaneously search from AllegroU, Allegro Online Help as well as the Allegro Knowledge base.
4. Click on Viewer Portal will launch the URL as defined in the config key Server Manager with key AllegroUVideoPortal.

## Description

The AllegroU AddOn represents tools that can be added to Allegro 8 to provide easy access to knowledge to the user, directly from the application.

* The AddOn tools should display as a menu item that appears in the Ribbon on every view in Allegro
* The **AllegroU** menu item will contain the following 4 function icons.
  1. Video Capture
     + This button will launch the Qumu video capture tool
  2. Video Help
     + Will display a list of business processes, reflective of the view the user is on.
     + For the key business processes, those processes will have a link to AllegroU that provides a short video of the process being demonstrated
     + The cross reference of business processes to videos will be editable such that the user can replace any Allegro supplied video for their own custom videos (on AllegroU)
     + The purpose of this tool is to provide the user with quick and easy access to video based instruction on how to complete a task (business process).
     + The Allegro Business Process model, an existing series of metadata tables, will be used to store the URL to a representative video.
     + Suggested columns added to the Sub Process table
     + When the user clicks Video Help from a view, the extension should know the view the user is currently on – and issue a SQL statement to bring back all Procedure rows referencing that viewname.
     + The resulting rows should be displayed the user in a browser window, with the ability to click/double click on the applicable video to play.
  3. Search Terms
     + The search tool will allow the user, from the Application, to simultaneously search AllegroU, Allegro Online Help as well as the Allegro Knowledge base.
     + The resulting results set will be displayed
     + The user can click to access the search result (connecting to either AllegroU, Allegro Online Help or the Knowledge Base)
     + The purpose of this tool is to provide a consolidated search into three of the primary knowledge tools available to users. AllegroU, Allegro Online Help and the Allegro Knowledge base. This tool levereages a “searchterm” column add to the Process model metadata. That field will contain a starting set of search terms – however at the time of the search, the user should be able to augment further.
     + When the user clicks the Search button, a browser appears with all pre-defined search terms applicable to the view the user is on.
     + The user should be able to augment the search terms, if desired
     + Then press some key / double click, something to trigger the search, for these keywords, in AllegroU, Allegro Online Help and the Knowledge Base
     + The resulting hits would be merged, with links to each “hit” available such that the user can quickly launch the search result in its respective source (AllegroU or the KB)
  4. Viewer Portal
     + This button will launch the URL as defined in the config key Server Manager with key AllegroUVideoPortal.
     + Identified the URL in server manager would provide each customer to access their own viewer portal.

## Dependencies

No pre-existing Allegro extensions are required for this extension.

## Assumptions

1. The Video URL and Search term is already setup in Procedure View.
2. The Allegro U authentication is already setup in Server Manager Config.
3. The AllegroUVideoPortal Url is already setup in Server Manager Config, if its not setup yet then the default Url is AllegroU Video Portal “https://allegro.qumucloud.com”

## Version Requirements

This solution will be created to be compliant with Horizon

# Solution Definition

## Data Model Definition

### Data Table – SubProcess

#### Data Columns

| **DB table** | **DB seq** | **DB column** | **DB type** | **DB len** | **DB precision** | **DB definition** | **DB primary key** | **DB index** | **DB null** | **Label** | **DB sys gen** | **DB Default** | **DB Constraint** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| subprocess | 11 | videourl | Varchar | 256 | 0 | URL referencing a video hosted on Allegro | 0 | 0 | 1 | Video URL | 0 |  |  |
| subprocess | 12 | searchterms | Varchar | 256 | 0 | Predefined search terms for this procedure | 0 | 0 | 1 | Search terms | 0 |  |  |

## Visual Model Definition

### View Name – Process Model

#### View Pane – subprocess

##### View Columns – subprocess

| **View name** | **View pane** | **View Column** | **Db Table** | **Db Column** | **Label** | **Column edit** | **Column req** | **Visible** | **View Default** | **Format** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Process Model | subprocess | videourl | subprocess | videourl | Video URL | TRUE | FALSE | TRUE |  |  |
| Process Model | subprocess | searchterms | subprocess | searchterms | Search terms | TRUE | FALSE | TRUE |  |  |

### View Name – AllegroU

| **View name** | **Description** | **View group** | **Class** | **View set** | **Sort seq** | **Time column** | **Time period** | **Auto select** | **Live data** | **Criteria warning** | **Status** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| AllegroU | AllegroU AddOn | Administration | AllegroUAddOn | Workflow | 10 |  |  | TRUE | TRUE | FALSE | INACTIVE |

#### View Pane – Video Help

| **View name** | **View Pane** | **Priority** | **Sort Seq** | **Pane Type** | **Title** | **Data Table** |
| --- | --- | --- | --- | --- | --- | --- |
| AllegroU | VideoHelp | 1 | 1 | GRID | Video Help |  |

##### View Columns – Video Help

| **View name** | **View pane** | **View Column** | **Db Table** | **Db Column** | **Label** | **Column edit** | **Column req** | **Visible** | **View Default** | **Format** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| AllegroU | VideoHelp | process |  |  | Process | FALSE | FALSE | TRUE |  |  |
| AllegroU | VideoHelp | subprocess |  |  | Sub Process | FALSE | FALSE | TRUE |  |  |
| AllegroU | VideoHelp | videourl |  |  | Click on a URL below to launch the video | FALSE | FALSE | FALSE |  |  |
| AllegroU | VideoHelp | seq |  |  | Seq | FALSE | FALSE | FALSE |  |  |
| AllegroU | VideoHelp | video |  |  | Video | FALSE | FALSE | TRUE |  |  |

#### View Pane – Search Terms

| **View name** | **View Pane** | **Priority** | **Sort Seq** | **Pane Type** | **Title** | **Data Table** |
| --- | --- | --- | --- | --- | --- | --- |
| AllegroU | SearchTerms | 1 | 2 | GRID | Search Terms |  |

##### View Columns – Search Terms

| **View name** | **View pane** | **View Column** | **Db Table** | **Db Column** | **Label** | **Column edit** | **Column req** | **Visible** | **View Default** | **Format** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| AllegroU | SearchTerms | process |  |  | Process | FALSE | FALSE | TRUE |  |  |
| AllegroU | SearchTerms | subprocess |  |  | Sub Process | FALSE | FALSE | TRUE |  |  |
| AllegroU | SearchTerms | searchterms |  |  | Click on a Search Term below to begin the search | FALSE | FALSE | TRUE |  |  |
| AllegroU | SearchTerms | seq |  |  | Seq | FALSE | FALSE | FALSE |  |  |

#### View Pane – Search Detail

| **View name** | **View Pane** | **Priority** | **Sort Seq** | **Pane Type** | **Title** | **Data Table** |
| --- | --- | --- | --- | --- | --- | --- |
| AllegroU | SearchTerms | 1 | 2 | GRID | Search Terms |  |

##### View Columns – Search Detail

| **View name** | **View pane** | **View Column** | **Db Table** | **Db Column** | **Label** | **Column edit** | **Column req** | **Visible** | **View Default** | **Format** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| AllegroU | SearchDetail | process |  |  | Process | FALSE | FALSE | TRUE |  |  |
| AllegroU | SearchDetail | subprocess |  |  | Sub Process | FALSE | FALSE | TRUE |  |  |
| AllegroU | SearchDetail | source |  |  | Source | FALSE | FALSE | TRUE |  |  |
| AllegroU | SearchDetail | title |  |  | Title | FALSE | FALSE | TRUE |  |  |
| AllegroU | SearchDetail | searchresult |  |  | Click on a Search Result below to display | FALSE | FALSE | FALSE |  |  |
| AllegroU | SearchDetail | Result |  |  | Search Result | FALSE | FALSE | TRUE |  |  |

#### View Pane – Procedures

| **View name** | **View Pane** | **Priority** | **Sort Seq** | **Pane Type** | **Title** | **Data Table** |
| --- | --- | --- | --- | --- | --- | --- |
| AllegroU | Procedures | 2 | 1 | GRID | Procedures |  |

##### View Columns – Search Detail

| **View name** | **View pane** | **View Column** | **Db Table** | **Db Column** | **Label** | **Column edit** | **Column req** | **Visible** | **View Default** | **Format** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| AllegroU | Procedures | sortseq |  |  | procedures | FALSE | FALSE | TRUE |  |  |
| AllegroU | Procedures | viewname |  |  | View Name | FALSE | FALSE | TRUE |  |  |
| AllegroU | Procedures | procedures |  |  | Procedures | FALSE | FALSE | TRUE |  |  |

## Web Service Definition

### Class Event – AllegroUAddOn

#### Class Event Configuration

| **Name** | **Description** | **Class** | **Action** | **Tier** |
| --- | --- | --- | --- | --- |
| AllegroUAddOn\_InitCreateAllegroUAddOn | Create Ribbon AllegroU AddOn for each view and Create AllegroU AddOn Toolclick in Help | Workflow | InitView | UI |
| AllegroUAddOn\_RemoveAllegroUAddOn | Remove Ribbon Toolclick AllegroUAddOn when deleted classevents “AllegroUAddOn\_InitCreateAllegroUAddOn” | VisualModel | BeforeUpdateData | UI |
| AllegroUAddOnHelper\_CreateAllegroUAddOnRibbon\_Method | Create AllegroU AddOn Ribbon in every view | AllegroUAddOnHelper | ClassMethod/CreateAllegroUAddOnRibbon | UI |
| AllegroUAddOnHelper\_RemoveAllegroUAddOnRibbon\_Method | Remove AllegroU AddOn Ribbon in every view | AllegroUAddOnHelper | ClassMethod/CreateAllegroUAddOnHelp | UI |
| AllegroUAddOnHelper\_ToolClick | AllegroU AddOn Tool Click | AllegroUAddOnHelper | ClassMethod/AllegroUAddOn\_ToolClick | UI |
| AllegroUAddOnHelper\_VideoCapture\_Method | Video Capture | AllegroUAddOnHelper | ClassMethod/VideoCapture | UI |
| AllegroUAddOnHelper\_VideoHelp\_Method | Video Help | AllegroUAddOnHelper | ClassMethod/VideoHelp | UI |
| AllegroUAddOnHelper\_SearchTerms\_Method | Search Terms | AllegroUAddOnHelper | ClassMethod/SearchTerms | UI |
| AllegroUAddOnHelper\_ViewerPortal\_Method | Viewer Portal | AllegroUAddOnHelper | BeforeUpdateData | UI |
| AllegroUAddOn\_Detail\_Search | Detail Search | AllegroUAddOn | BeforeCellActivate/searchterms | UI |
| AllegroUAddOn\_Open\_VideoHelp | Open Video Help | AllegroUAddOn | BeforeCellActivate/videourl | UI |
| AllegroUAddOn\_Open\_SearchDetail | Open Search Detail | AllegroUAddOn | BeforeCellActivate/searchresult | UI |
| AllegroUAddOn\_SearchAllegroUVideo | AllegroU AddOn Search Allegro U Video | AllegroUAddOn | ClassMethod/SearchAllegroUVideo | UI |
| AllegroUAddOn\_ExtractFromString | AllegroU AddOn Extract From String | AllegroUAddOn | ClassMethod/ExtractFromString | UI |
| AllegroUAddOn\_ExtractSearchResults | AllegroUAddOn Extract Search Results | AllegroUAddOn | ClassMethod/ExtractSearchResults | UI |
| AllegroUAddOn\_ClassVariables | Class Variables | AllegroUAddOn | ClassVariables | UI |
| AllegroUAddOn\_InitializeClass | Initializes views class for views within the class | AllegroUAddOn | ClassMethod/InitializeClass | UI |
| AllegroUAddOn\_InitView | Initialize the View | AllegroUAddOn | InitView | UI |
| AllegroUAddOn\_ViewClosing | View Closing | AllegroUAddOn | ViewClosing | UI |
| AllegroUAddOn\_WebMethod\_Retrieve | AllegroUAddOn Retrieve WebMethod | AllegroUAddOn | WebMethod/RetrieveAllegroUAddOn | Server |
| AllegroUAddOn\_Open\_Procedures | Open Procedures | AllegroUAddOn | BeforeRowActivate/videohelp | UI |

#### AllegroUAddOn\_InitCreateAllegroUAddOn

This class event is to initiate AllegroUAddOnHelper to create AllegroU AddOn Ribbon and AllegroU AddOn Help

#### AllegroUAddOn\_RemoveAllegroUAddOn

This class event will run if “AllegroUAddOn\_InitCreateAllegroUAddOn” is deleted. This will call AllegroUAddOnHelper to run “AllegroUAddOnHelper\_RemoveAllegroUAddOnRibbon\_Method” function. The purpose of this functions is to remove the Ribbon AllegroU from every view when the AllegroUAddOn\_InitCreateAllegroUAddOn is deleted. If the package AllegroUAddOn should be deleted from application then AllegroUAddOn\_InitCreateAllegroUAddOn must be deleted first before delete this class event.

#### AllegroUAddOnHelper\_CreateAllegroUAddOnRibbon\_Method

This class event is to add AllegroU AddOn tools that should display as a menu item that appears in the Ribbon AllegroU on every view in Allegro Application. The Ribbon AllegroU consist of 3 button (Video Capture, Video Help, Search Terms)

#### AllegroUAddOnHelper\_RemoveAllegroUAddOnRibbon\_Method

This class event is to remove AllegroU ribbon in every view when the AllegroUAddOn\_InitCreateAllegroUAddOn function is deleted.

#### AllegroUAddOnHelper\_ToolClick

This class event will be set to run the 3 functions of AllegroU AddOn when click the button.

#### AllegroUAddOnHelper\_VideoCapture\_Method

This class event will run after button Video Capture is clicking and will launch the Allegro Qumu video capture tool in webbrowser

#### AllegroUAddOnHelper\_VideoHelp\_Method

This class event will run after button Video Help is clicking and will display the AllegroU View that consist of View Grid to display a list of business processes with Url Video based on view the user is on. The data source is SubProcess table that store the video Url.

Query :

|  |
| --- |
| select distinct subprocess.subprocess, procedures.videourl, subprocess.sortseq  from process, subprocess, procedures  where process.process = subprocess.process  and subprocess.process = procedures.process  and subprocess.subprocess = procedures.subprocess  and procedures.viewname = 'view name'  and subprocess.videourl is not null  order by subprocess.sortseq |

#### AllegroUAddOnHelper\_SearchTerms\_Method

This class event will run after button Search Terms is clicking and will display the AllegroU View that consist of View Grid to display a list of search terms to be use as search value in AllegroU, Allegro Online Help as well as the Allegro Knowledge base. The data source is SubProcess table that store the search terms and will display based on the view name.

Query :

|  |
| --- |
| select distinct subprocess.subprocess, searchterms, subprocess.sortseq  from process, subprocess, procedures  where process.process = subprocess.process  and subprocess.process = procedures.process  and subprocess.subprocess = procedures.subprocess  and procedures.viewname = 'view name'  and subprocess.videourl is not null  order by subprocess.sortseq |

#### AllegroUAddOnHelper\_ViewerPortal\_Method

This class event will run after button Viewer Portal is clicking and will launch the URL as defined in the config key Server Manager with key AllegroUVideoPortal.

#### AllegroUAddOn\_Detail\_Search

This class event will run after column cell of search terms in AllegroU Form is clicking and will display the Detail Search Grid View to display a list of merge search results from AllegroU, Allegro Online Help and Allegro Knowledge base. This classevent will call AllegroUAddOn\_SearchAllegroUVideo function to get results video from AllegroU and this will merge with provide link to search Allegro Online Help and Allegro Knowledge base.

#### AllegroUAddOn\_Open\_VideoHelp

This class event will run after column cell of video url in AllegroU Form is clicking and will open AllegroU Qumu in webbrowser to open and play the video.

#### AllegroUAddOn\_Open\_SearchDetail

This class event will run after column cell of search results in AllegroU Form is clicking and will connected to AllegroU, Allegro Online Help or Allegro Knowledge Base in webbrowser. If search result source is AllegroU then this will open AllegroU Qumu to open and play the video. If search results is Knowledge Base then this will open Knowledge Base with search results. video. If search results is Allegro Online Help then this will open browser to open Allegro Online Help with search results or open Allegro Online Help in window form.

#### AllegroUAddOn\_SearchAllegroUVideo

This class event will run after column cell of search terms in AllegroU Form is clicking , this is classmethod to search Video from AllegroU using Qumu API Search using contains title and tag parameters, and criteria is based on search terms that provided, and will return list of results consist of Title and Url for the Video.

#### AllegroUAddOn\_ExtractFromString

This class event is method helper to get necessary value from results Json that return from Allegro Qumu API Search for AllegroU Video.

#### AllegroUAddOn\_ExtractSearchResults

This class event is method helper to get necessary value from results Json that return from Allegro Qumu API Search for AllegroU Video.

#### AllegroUAddOn\_ViewClosing

This classevent purpose is to clear data source of SearchDetail Table to avoid Update Data Notification appear everytime the AllegroU Form that consist Search Detail grid is closed. This necessary because SearchDetail datasource populate manually from results search AllegroU, Allegro Online Help and Knowledge Base.

#### AllegroUAddOn\_Open\_Procedures

This classevent purpose is to Retrieve Procedures based on sub process showed up in video help pane.

# Test Criteria

## Test Procedure 1 – The AllegroU AddOn tools should display as a menu item that appears in the Ribbon on every view in Allegro

1. Navigate to any view in Allegro Application.
2. The AllegroU Ribbon must appear in Upper Tab of every view.
3. Example View “Counterparties”

## Test Procedure 2 – Video Capture to launch the Qumu video capture tool.

1. Navigate to Contracts > Counterparties > Counterparties
2. Click on the "AllegroU" ribbon on the upper toolbar
3. Click on "Video Capture"
4. Allegro Application will open web browser to open Allegro Qumu Video Capture tool

## Test Procedure 3 – Video Help to display list of business processes which represent by Url Video that store in Process Model tables. The results based on viewname the user is currently on and be able to click/double click on the applicable video to play.

1. Navigate to Contracts > Counterparties > Counterparties
2. Click on the "AllegroU" ribbon on the upper toolbar
3. Click on "Video Help"
4. Allegro Application will open AllegroU View to display list of business processes with Url Video
5. Procedure Panes will Showed up based on subprocess in video help
6. Click on Video URL Cell with process *Create a counterparty* to open and play video in webbrowser

## Search to display list of search terms for AllegroU, Allegro Online Help and Allegro Knowledge base that store in Process Model tables. Clicking on the search terms will simultaneously search AllegroU, Allegro Online Help as well as the Allegro Knowledge base and resulting results should be able to click/double click to connecting to either AllegroU, Allegro Online Help or the Knowledge Base.

1. Navigate to Contracts > Counterparties > Counterparties
2. Click on the "AllegroU" ribbon on the upper toolbar
3. Click on "Search Terms"
4. Allegro Application will open AllegroU View to display list of search terms
5. Click on the Search Terms with process *Create a counterparty* to display resulting results from AllegroU, Allegro Online Help and Allegro Knowledge base
6. Click on one of Search Result Cell with source AllegroU to open and play video in webbrowser
7. Click on one of Search Result Cell with source Knowledge Base to connection to Knowledge Base search results in webbrowser
8. Click on one of Search Result Cell with source Allegro Online Help to connection to Allegro Online Help search results in webbrowser

## Test Procedure 5 – Viewer Portal to launch the config Url AllegroUVideoPortal.

1. Navigate to Contracts > Counterparties > Counterparties
2. Click on the "AllegroU" ribbon on the upper toolbar
3. Click on "Viewer Portal"
4. Allegro Application will open web browser to open the URL as defined in the config key Server Manager with key AllegroUVideoPortal

# Approvals

## Approval of this extension specification may be by signature below or by email response.

|  |  |  |
| --- | --- | --- |
| **Allegro Development Corporation** | |  |
|  | |  |
|  |  |  |
|  |  |  |
| Signature | Date |  |