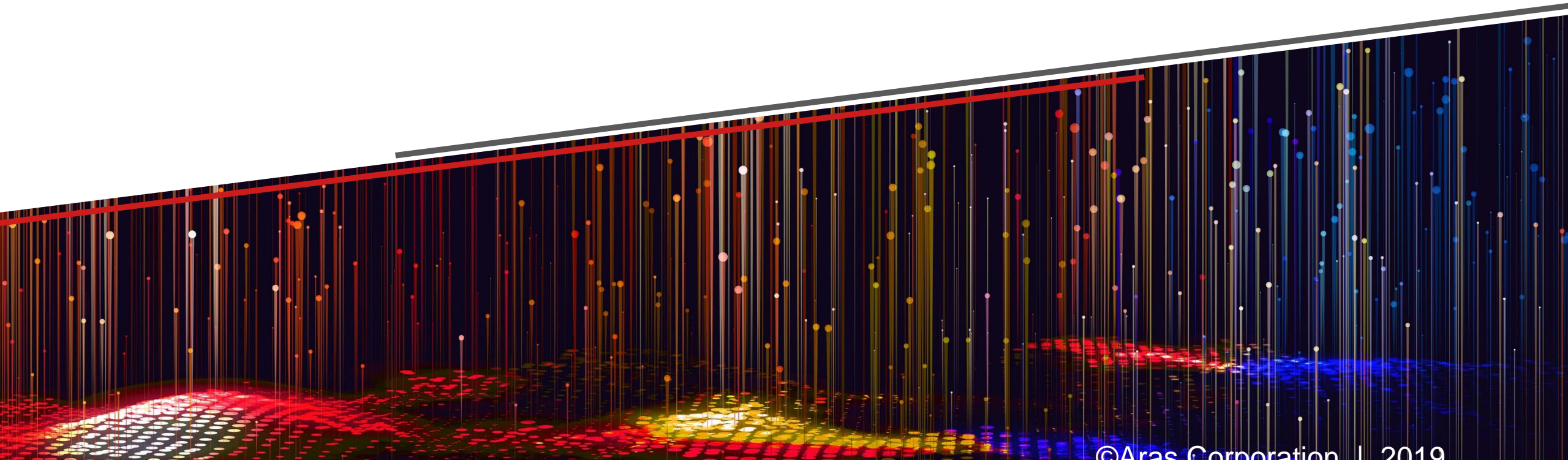# Property Advanced Validation Rules
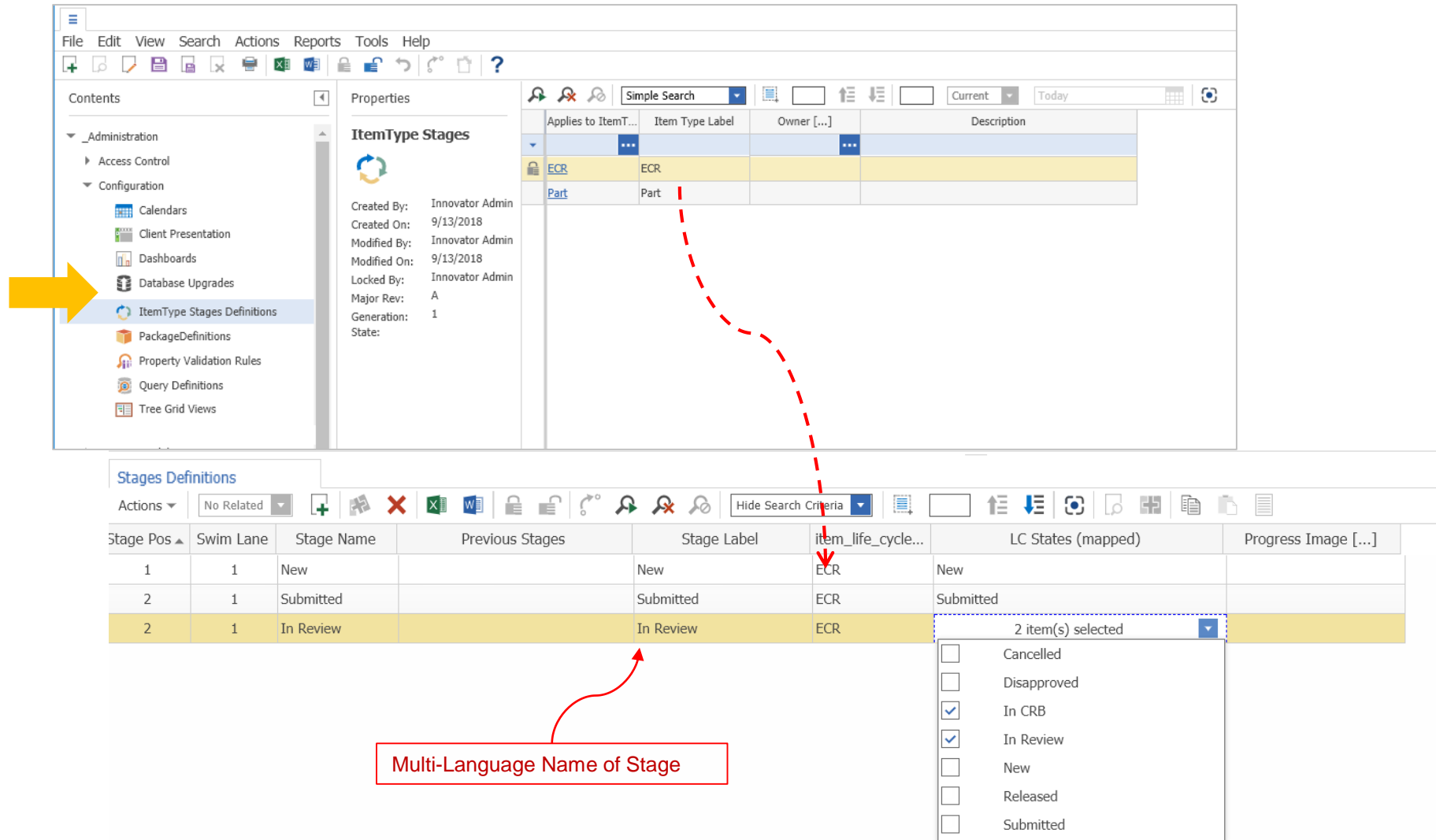
Author: Rolf Laudenbach

Description - Property Advanced Validation

- Purpose:
  - Add configurable rules to check availability or specific expected values of properties of an Item by life cycle state at run time.

- The checks according to rules run while an item is in a defined "stage" or gets promoted to a "stage".

- This allows to extend the options of checking for "required" data beyond just during the initial "save" action.

- "Stages" are defined as one or more possible "Life Cycle States" of an item.

- A generic "Server Method" (pav_ItemProperty_advValidations) is provided to read the rules of the ItemType specific configurations and execute the checks and generate an error message listing missing or non-conforming property values.

- This method must be connected to the "onAfterUpdate" events of ItemTypes to enable its extended property validations.
  - Note: on error of server methods "onAfterXX" a roll-back takes place anyways !!!

- To enable checking during a promotion to one of the defined stages, the same method must also be connected to ItemType server events "onBeforePromote" and "onAfterPromote"
  - Note: The OnBeforePromote and OnAfterPromote events can be used to define a standard promote operation for an item regardless of the lifecycle transition selected by the user. Both events are triggered BEFORE the standard lifecycle pre/post events are invoked.

- Also, an "Item Action" (pav_ItemProperty_advValidations) is provided to execute the validations upon user request to get a report of missing or non-conforming property values.

- Error messages are template based and support multi-language configurations

- Property Validation rules must be set to status "Active" (life cycle) to take effect.

(1) Define Stages for an ItemType

Multi-Language Name of Stage

(2) Define Property Validation Rules

PROMOTE to "Active"

If not set to "Active", validations will not run !!!

Link to ItemType Stage Definitions

Err. Message Templates per Property Check.
If set, it will override common Message Template

Common Message Templates (Multi-Language)

Label added to Error Message

Stage to apply validations to Selected from ItemType Stage Definition

Optional: RelationshipType holding properties to check

Enable validations If promoted to this Stage

Property to do validations for

Expected Values to check: Semi-colon separated !!!

Newer Layout (same Functionality)

(3) Configurations on ItemTypes

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Test it: Create new ECR (promote via InBasket)

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Edit ECR and set missing Property value

No validation errors now.

Try promote via InBasket again

Open ECR (in status "Submitted")

Start Validation/Completness Check via Action

Still a propety value is missing !!

Edit ECR and set „Priority". Then run Action again
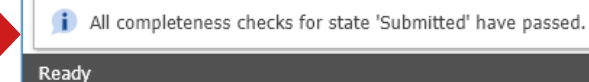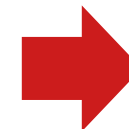
Item Validations In Action

Check via Action (or when saving an update)

Error messages shown in a popup window

Error

Data Completeness check for 'ECR (ECR-100001)' in status 'Submitted' has failed:

[Main] : The value of Property 'Priority' is missing or incorrect ! (Value --> '', expected Values: 'not null')
[Main] : The value of Property 'Source' is missing or incorrect ! (Value --> '', expected Values: 'not null')

OK

Success message at bottom of Main Page

All completeness checks for state 'New' have passed.

Ready   arastraining

Check when promoting

Error messages shown in a popup window

Error

Data Completeness check for 'ECR (ECR-100002)' in status 'Submitted' has failed:

[Main] : The value of Property 'Source' is missing or incorrect ! (Value --> '', expected Values: 'not null')

Show Details   OK

Our configuration has only one validation active for promoting the item