

WELCOME

- Timings
- Safety
- Ground rules
- Objectives





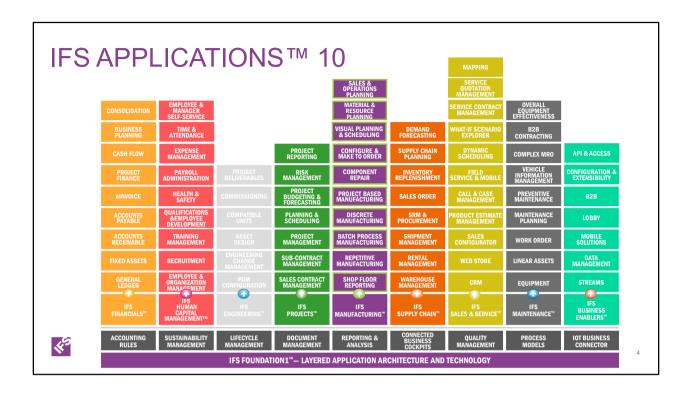
YOUR TRAINER

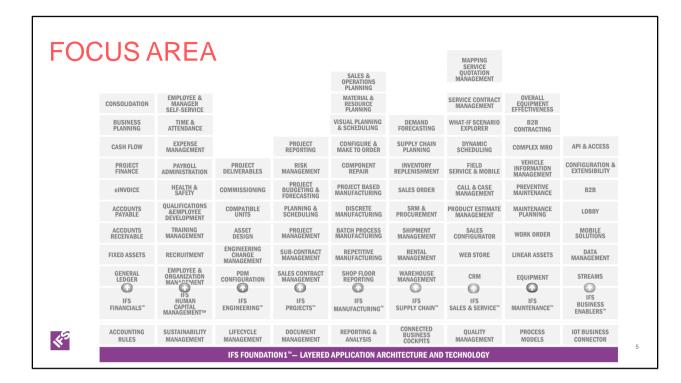
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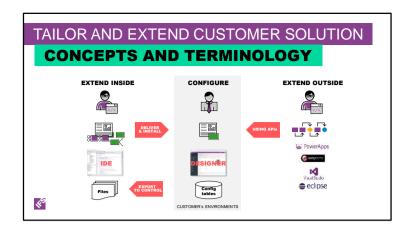
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Email:









TAILOR AND EXTEND

WHEN TO CHOOSE WHAT

CONSIDER CONFIGURATION WHEN...

CONSIDER EXTEND ON INSIDE / CUSTOMIZATION WHEN...

EXTEND ON THE OUTSIDE WHEN...

- Changes are small
- Changes are temporary
- Preferable that changes are made by consultants / super users
- New capabilities consisting of several objects, logic, ui
- Changes require overriding existing logic
 - Changes require writing an amount of SQL or PLSQL code/script
- Building workflows/apps that interacts with multiple applications
- You want to surface functionality through a 3rd party UX

Gets faster to do, and easier to carry forward with IFS Aurena and declarative development

Good practice to export and store in the customer repository





CONCEPT MAPPING

IFS IEE – IFS AURENA

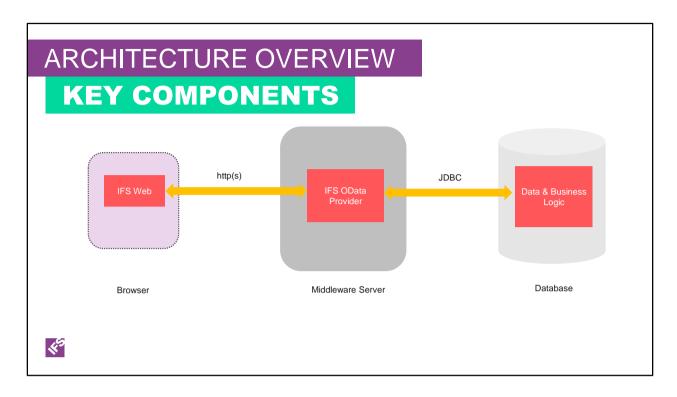
IFS EE	IFS Aurena	Upgraded
Custom Fields	Yes Custom Attribute + Page Configuration	The attributes with definition and storage are upgraded Layout needs to be redone Assumes the pages in IFS Aurena are based on same data source as in IFS Enterprise Explorer
Custom Logial Units	Yes	Yes
Custom Page	Yes	No (redo)
Custom Enumeration	Yes	Yes
Custom Screen Layout + Page Properties	Yes Aurena Page Designer	No (redo)
Custom Menu	Partly Command + Custom Action	No (redo)
Custom Tabs	Partly (not possible to add other pages as tabs)	No (redo)

CONCEPT MAPPING

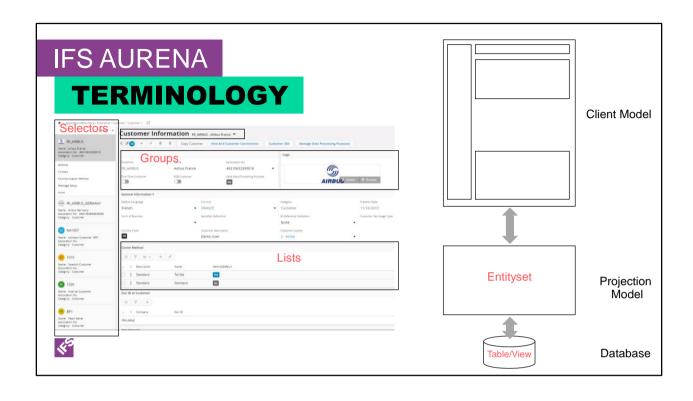
IFS IEE – IFS AURENA

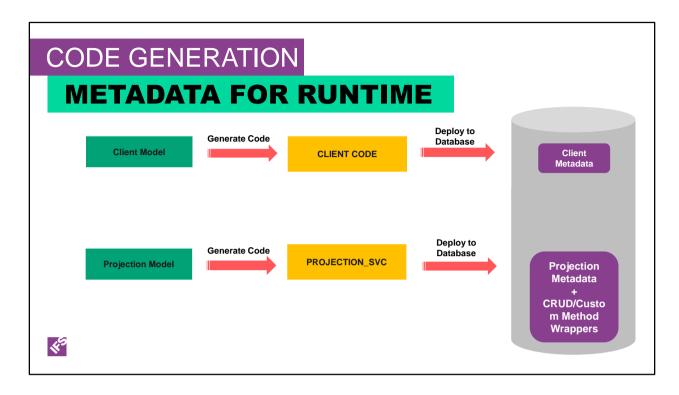
IFS EE	IFS Aurena	Upgraded
Conditional Fields	No	No
Information Cards	No	No - Deprecated
Custom Events	Yes	Yes
Event Actions	Yes	Yes (URL:s needs to be updated manually)
Application Configuration Packages	Yes	Yes



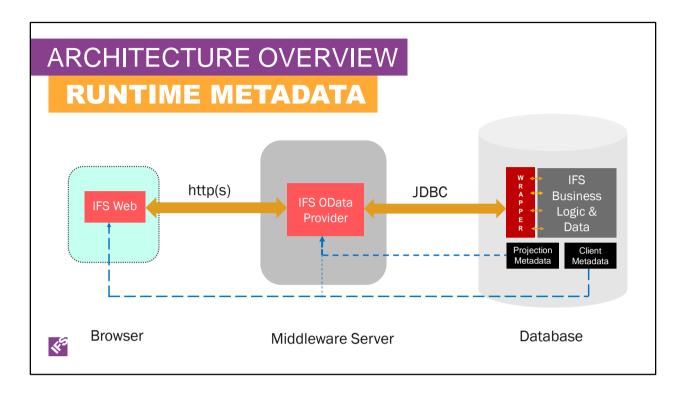


- 1. IFS Web: Is the client side runtime component for Aurena
- 2. IFS Odata Provider: Is the middle tier component that exposes services to the client (by acting as a gateway to the DB)
- 3. The Aurena client interacts with the data and business logic in the database via the odata provider



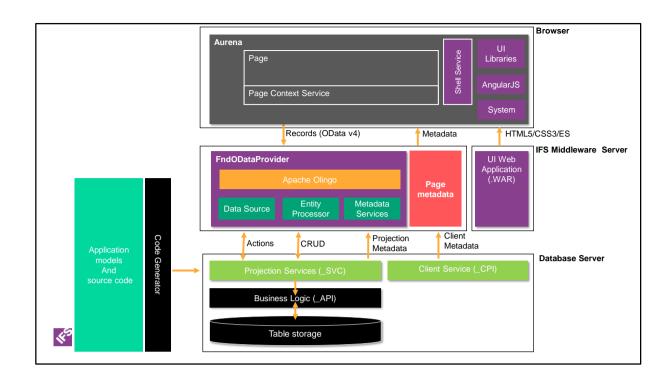


- *.client file results in creating *_CPI plsql package in the database that generates the metadata to define the client.
- *.projection file results in *_SVC plsql package that generates the projection metadata used by IFS OData Provider to create the database request. This package also contains the wrapper methods for CRUP operations.



- Metadata stored in the DB are used by client runtime and OData provider
- Odata provider does not call the LU's New, Modify, Delete directly
- Instead they are wrapped by CRUD_* methods in Projection SVC package
- All access to the DB LU logic (_APIs) is done via the SVC package

IFS Presentation October 5, 2020



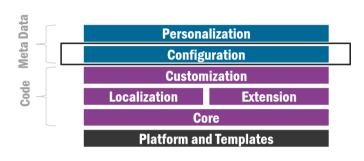
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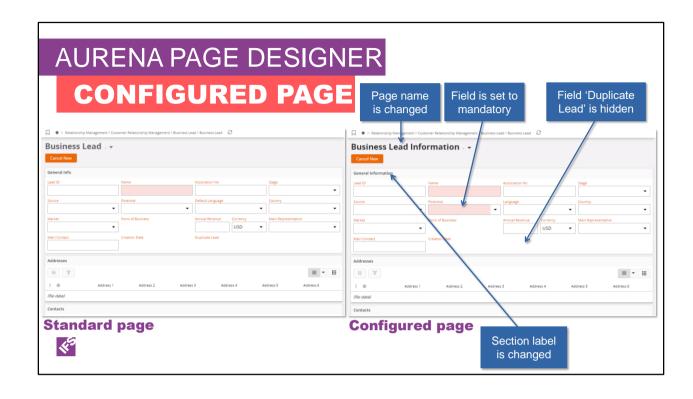


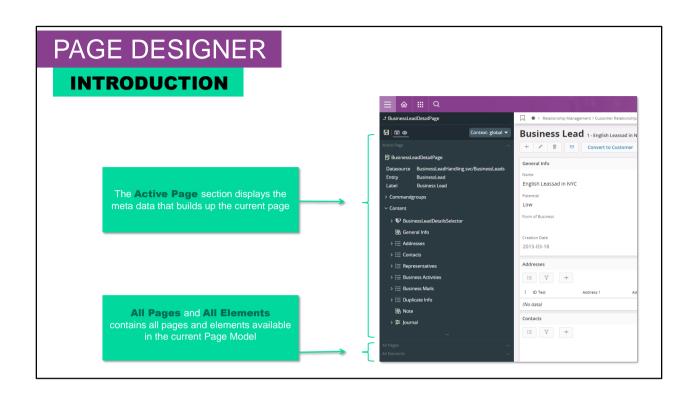
PAGE DESIGNER

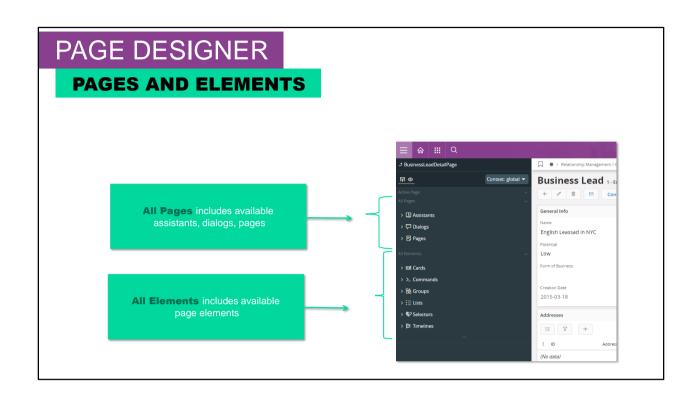
TECHNICAL OVERVIEW

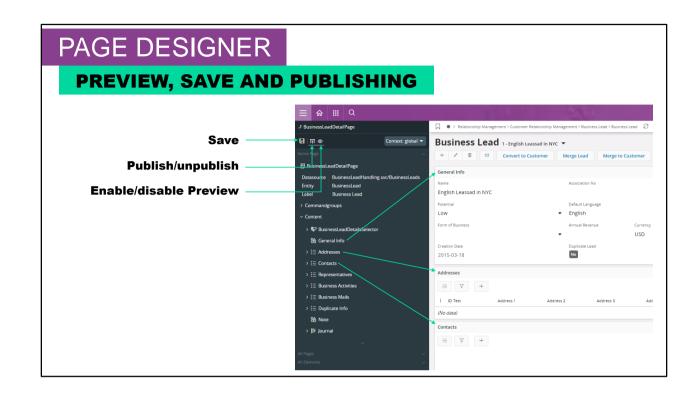
- The **Page Designer** is a tool to modify the standard layout and behavior of application pages in IFS <u>Aurena</u>
- Applied changes to pages are stored as configurations and are application wide

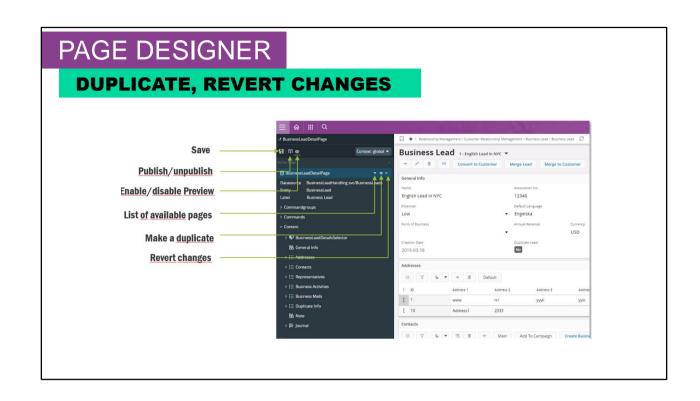














IFS AURENA

CONFIGURATION CONCEPTS

- Custom Attributes
- Custom Logical Units
- Custom Actions & Commands
- Configuration Context
- Application Configuration Packages

AURENA CONFIGURATIONS

CUSTOM ATTRIBUTES

- Custom Attributes are available in IFS Aurena
- Includes Custom Attributes created as Custom Fields in IFS Enterprise Explorer
- Custom Attributes are added to pages in IFS Aurena using the Page Designer



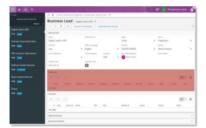


EXTEND STANDARD PAGES

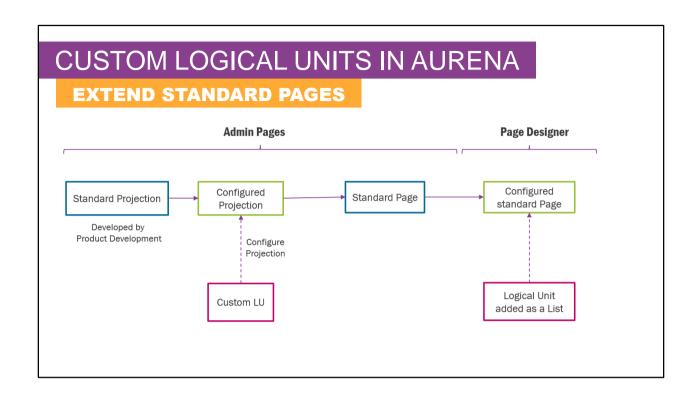
As an Admin,
I want to add a Custom Logical unit as a List to a standard page

EXTEND STANDARD PAGES

- A standard IFS Aurena Application page can be extended with Custom Logical Units
- Custom Logical Units created in IFS Enterprise Explorer can be used in IFS Aurena
- Custom Logical Units are added to pages In IFS Aurena by configuring the Projection the standard application page is based on
- The Aurena Page Designer is used to configure the layout of the page



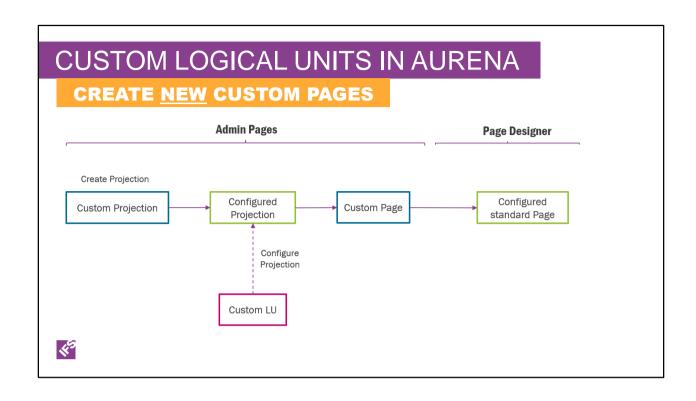
The Custom Logical Unit data can be visualized as a **new section** in a standard page





CREATE <u>NEW</u> CUSTOM PAGES

As an Admin,
I want to create a Custom Page based on a Custom Logical Unit



CREATE NEW CUSTOM PAGES

- Custom Pages can be created in IFS Aurena
- A new Projection is created which includes the Custom Logical Units
- A Custom Page is created based on the new Projection
- The Aurena Page Designer is used to configure the Layout of the Custom Page



A **new Custom Page** based on a Custom Logical Unit

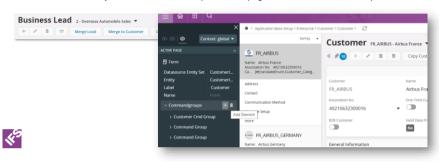


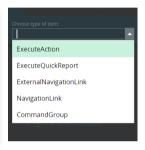


CUSTOM ACTIONS AND COMMANDS

COMMANDS

- Commands are added as buttons to pages and can be added to the page top header and above lists and group sections
- They are added to Aurena Pages using the Page Designer
- Commands provides the functionality to:
- Execute Action Call an existing Method in IFS Applications
- Navigation Link Navigate between application pages, with or without parameters.
- External Navigation Link Navigate to an external URL, with or without parameters.
- Execute a Quick Report Order a Quick Report from a page that does not have the report as a standard Command.





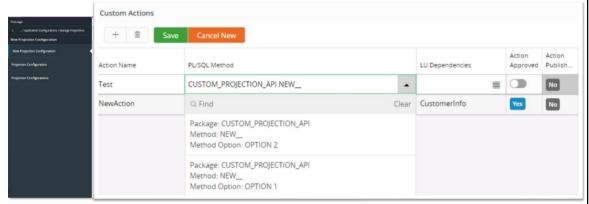
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CUSTOM ACTIONS AND COMMANDS

CUSTOM ACTIONS

- Custom Actions provides the possibility to add additional actions to IFS Aurena Projections.
- As any Projection action, a Custom Action can be added as a command to a page.
- Custom Actions are defined in the Projection by referring an existing PL/SQL method in the business logic.



CUSTOM ACTIONS AND COMMANDS

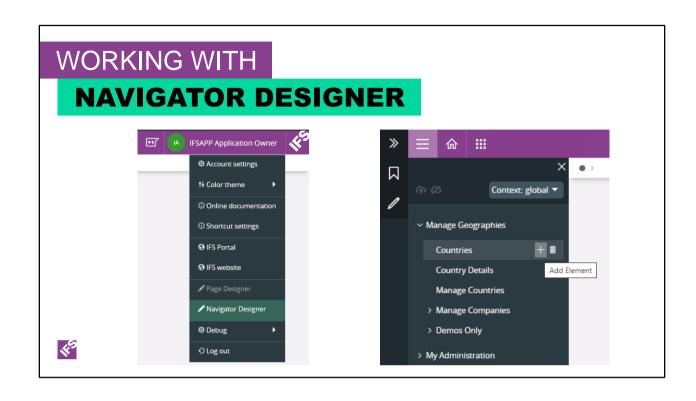
CUSTOM ACTIONS – CURRENT LIMITATIONS

- Custom Actions support methods which have simple Parameters (VARCHAR2, NUMBER, DATE) or no Parameters at all.
- Custom Actions currently do not support Methods such as,
- Return data (Functions or methods with OUT Parameters)
- Complex Data Types (PL/SQL Record Types)
- BLOB, CLOB Parameters
- PL/SQL methods exposed in Projections (_SVC package), client metadata package (_CPI) and Report package (_RPI) methods









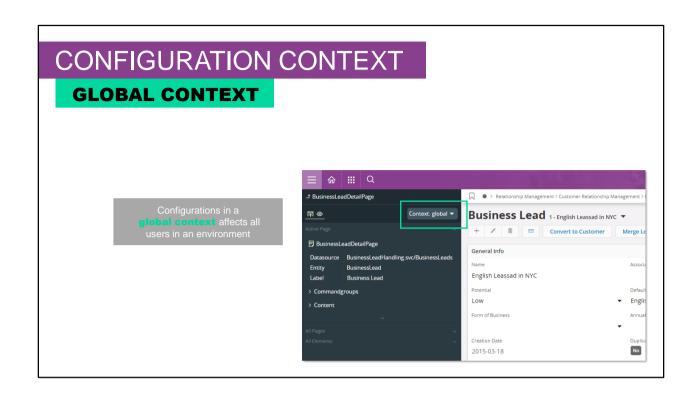
WORKING WITH NAVIGATOR DESIGNER

- Change a navigator node label
- Hide a navigator node
- A new navigator node can be a navigation reference to:
- An external URL
- An Aurena page or assistant
- A Custom Page
- A Lobby page
- or a menu node to create a new navigator folder.









CONFIGURATION CONTEXT DEFINE NEW CONTEXTS ≡ ⋒ **!!!** Q → BusinessLeadDetailPage Context: A ▼ ⑧ Business Lead Context A 1- English Leassad in NYC To support multiple parallell configurations of the same page, separate **contexts** can also be defined. + / 🛍 🖾 Convert to Customer Merge Lead Merge t BusinessLeadDetailPage General Info Entity Business Lead Context A English Leassad in NYC > Commandgroups ▼ English Form of Business Duplicate Lead 2015-03-18

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CONFIGURATION CONTEXT

REACHING PAGES DEFINED FOR CUSTOM CONTEXTS

- When configurations are made for the global context, then these configurations will be used as soon as an application user navigates to the page in any way.
- The global configurations behave the same as if the application was customized.
- For Custom Contexts it is the opposite. No user will ever use a configuration from a specific context if not specifically defined. There are two ways to do this.
 - Implicitly: by mapping users or user groups to a configuration context.
 - Explicit navigation directive: Specify the configuration context to be used directly on a navigation URL as an attribute called "scope"
- · The framework will use contexts in the following order:
 - · Explicit context directive on an URL > Mapped default context > Global Context > Application Core

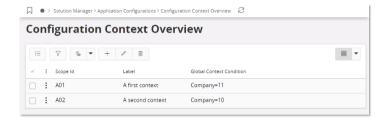


EXPLICIT NAVIGATION TO A CONTEXT https://<environment.details>/main/ifsapplications/web/page/CrmCustomer/CrmCustomerPs.ge;scope=A

CONFIGURATION CONTEXT

CONNECT A GLOBAL CONTEXT CONDITION TO SCOPE

- An application context condition can be connected to a Scope if a parallell configured version of a page is wanted as default (instead of the global version)
- This connection is done on the Configuration Context Overview page



CONFIGURATION CONTEXT **DEFINE A CONFIGURATION CONTEXT CONDITION** \square • > Solution Manager > Application Configurations > Configuration Context Overview \varnothing **Configuration Context Overview** It is currently possible to use 'global context variables' (company, ledger or wage class) and (User and UserGroup) when defining the global context condition for the scope. ✓ E Scope Id Label Global Context Condition ☐ **:** A01 A first context Company=11 ☐ **:** A02 A second context Company=10 lacktriangledown > Solution Manager > Application Configurations > Configuration Context Mappings $\ensuremath{\mathcal{C}}$ **Configuration Context Mappings** Condition ✓ : Context Description ☐ **:** A10 Demo Context company = 10

☐ **:** U10

Demo Users

usergroup = DemoUsers

CONFIGURATION CONTEXT

EXAMPLE SCENARIOS

1. No configuration made on a pageUser gets Core (IFS Product Development delivered) version of the page

2. Configuration made on a page in a global context

Users get global configuration

3. Configuration made on a page connected to Context A

Users that navigate to the page through a link with ;scope=A in the URL gets the configured page defined in Context A.

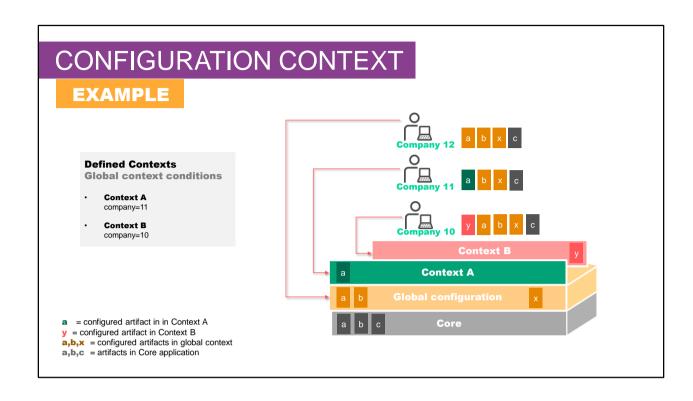
4. Configuration made on a page connected to Context A and Context A condition is 'company=10'

Users that navigate to the page through a link with <code>;scope=A</code> in the URL get the configured page in Context A. Users with <code>global company = 10</code> gets the configured page in Context A by default.

Users not affected by condition in Context A get global configuration if such exist (users with global company that is not company 10)

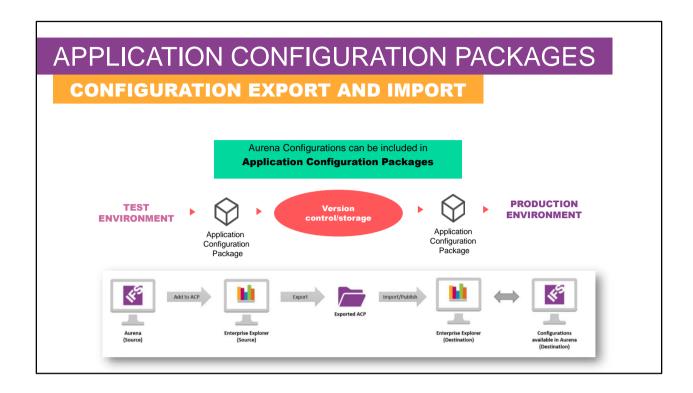
5. A page has configurations in both Context A and Global context

User navigating through a link or that has global company = 10 will see configurations made in global context and Context A. The configuration in the "highest" layer will be available for the users. (See next slide.)





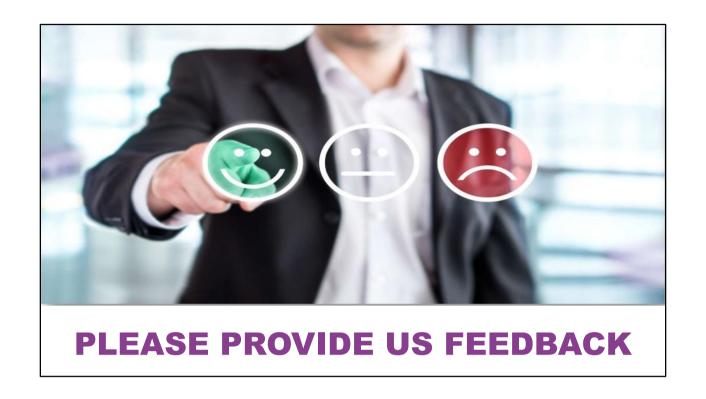
















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