

XME.digital

Digital Service Platform

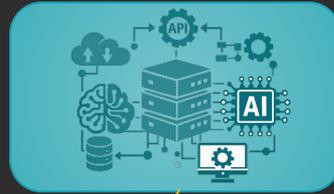
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XME.digital Services Platform – built for the AI-Native Era to transform Telecoms from Configuration to Innovation

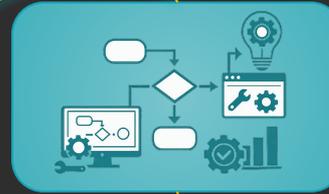
Generative UX
Engine



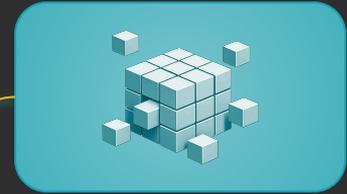
Integration and AI
ready Architecture



Visual E2E Process
Configuration Studio



Ready-to-use Enterprise
Components



Covers use cases from Customer-facing ecosystems, Business and Operational support to Real-time events orchestration.

Serves as Middleware or frontier system for telco clients and employees.

Variety of telco implementational cases are possible with XME.digital.

Digital Service enabler for nowadays telcos



Enhance

Existing applications and systems



Structure

Put a scalable structure to your IT zoo



Technological Growth

The gateway to adopt AI/LLM and new technologies

In a matter of weeks, implement your idea into a fully digital service, with all integration points



Enterprise
Platform

XME. Digital Services Platform

Stella#5

Generative Customer Portal

CREATE

Creative Studio

visual Implementation tools

UI

Brand & Style Management

from business domain to colours

IM

Integration Middleware

and ready integration components

OMNI

Omni-channel Access

with a single functions delivery cycle

OPs

Operational Excellence & Enterprise Integration

- Ready Components
- Flexible Customization
- Performance Analytics
- A/B Testing



Customer-Facing:

Self-Service
B2C / B2B

Marketplace

Contractors
Portal

Partner
Cabinet

Cloud
Services

PBX

Mobile
Wallet



Orchestration:

Convergent
Services

Loyalty
Programs

Partner
Services

IoT

Tailored BSS
Components

Tailored OSS
Components



Integration:

Universal
Connectors

Open API

AI
Gateway

Creative
Studio tool

Add more teams to **build more services independently.**

Build **by yourself** or with XME engineering team.

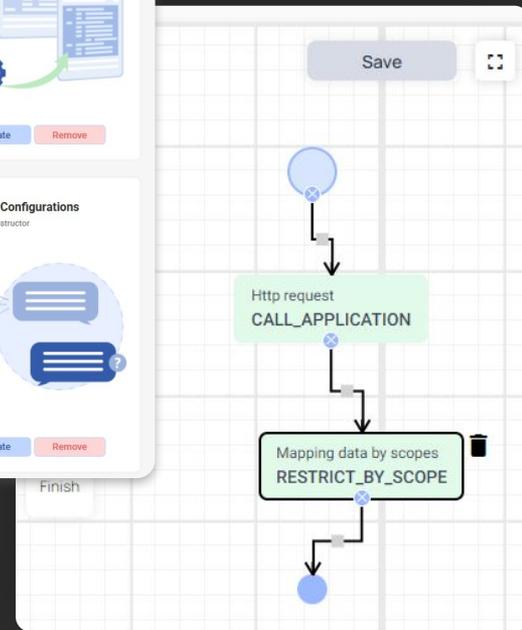
Visual. Convenient.

Configurable.

The screenshot shows the configuration interface for an entity named 'PRICE'. On the left, there is a sidebar with navigation icons and a list of fields: 'currency*' (String), 'balance*' (Balance), and 'amount*' (Number). The main area displays the 'PRICE' entity with its fields: 'currency' (with options EUR, USD, UAH), 'balance', and 'amount'. Below the entity, there is a 'Balance' entity configuration. A 'Properties' panel on the right shows the 'Type key' as 'PRICE.ONE_TIME_FEE' and lists 'Block Fields' (currency, balance, amount) and 'Block Links'.

The Marketplace section displays a grid of pre-built actions and tools, each with an 'Update' and 'Remove' button:

- Api builder action to make HTTP request**: Api builder action to make HTTP request. Includes an icon of a globe with 'HTTP' and a server icon.
- Entity builder**: Entity builder. Includes an icon of a document with a code symbol.
- Access management**: User management / Client management / Permissions. Includes a shield icon with a lock.
- Administration pages**: Manage dashboards, edit specifications, refresh configuration, export/import entities, etc. Includes an icon of a dashboard with a gear.
- Email editor**: Email templates. Includes an icon of an email client.
- Process Builder**: Process Builder. Includes an icon of a flowchart with a checkmark.
- Platform API Documentation**: XME Digital Standard API Swagger Documentation. Includes a code editor icon.
- Chatbot Configurations**: Chatbot constructor. Includes an icon of a chatbot interface.





Engineers **friendly approach** to low-code Accelerates the launch of new services by up to 10x



Out-of-the-box visual and functional components catalog



Configurable Design and **Look & Feel** adaptable to your brand and style



Dynamic Informational and Data Model based on **JSON**



Configurable dashboards for every **user role**



Low-code & Visual tools to speed up service delivery



Scripting and Logic Extension Points (LEP) for business logic delivery



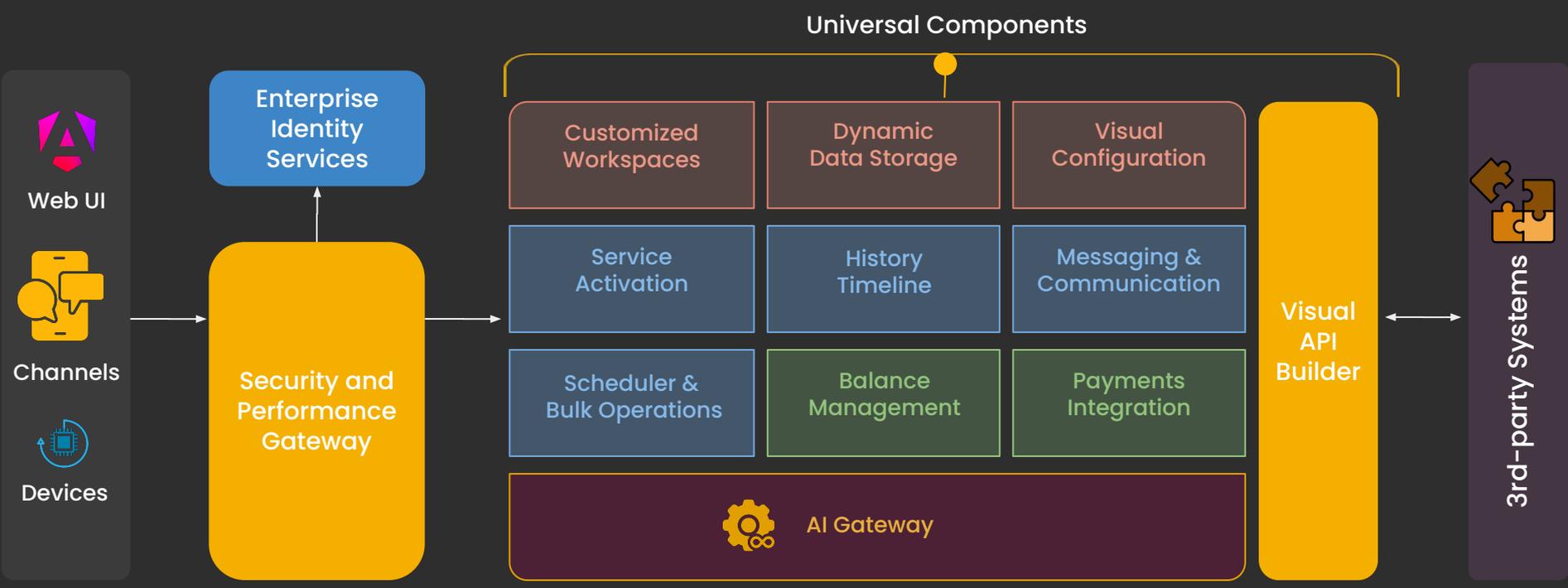
Authentication and authorisation for every logic execution (RBAC/ABAC)



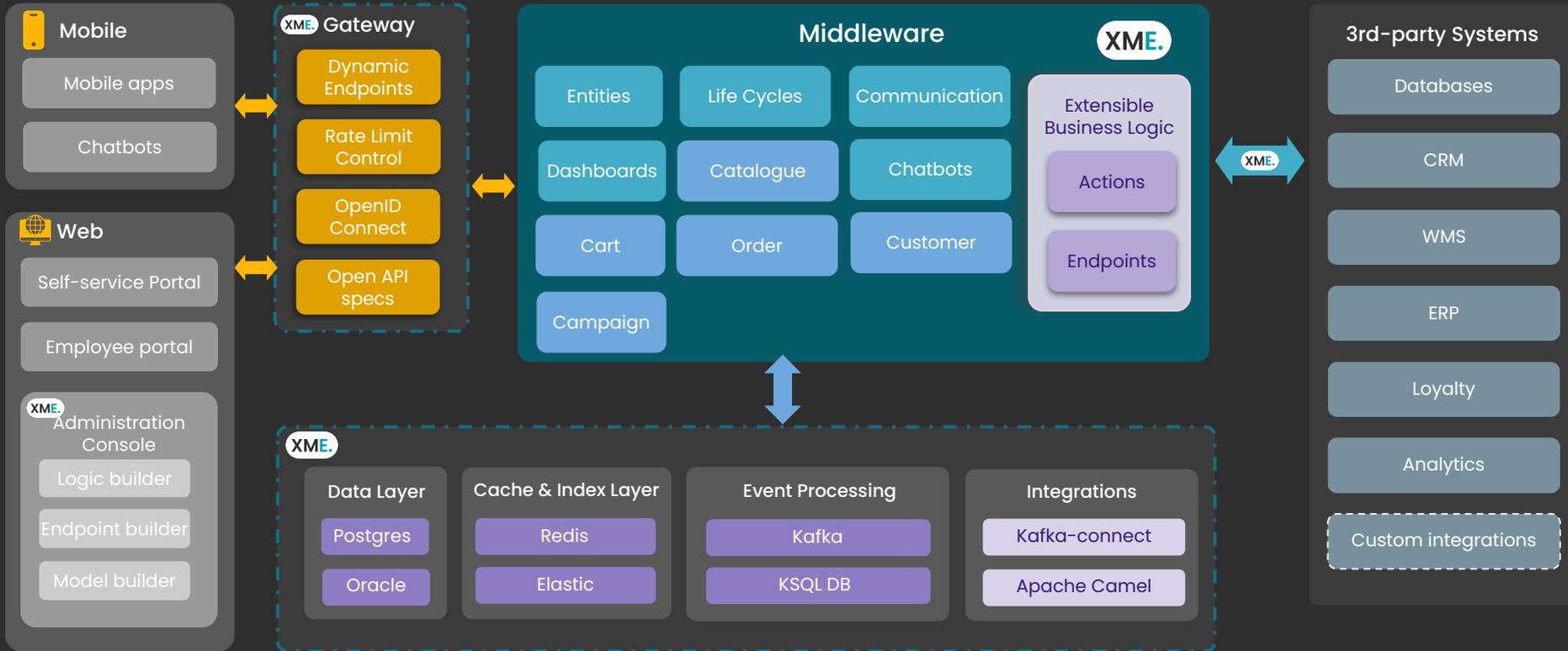
Integration with open API and visually configurable API & Process Builder



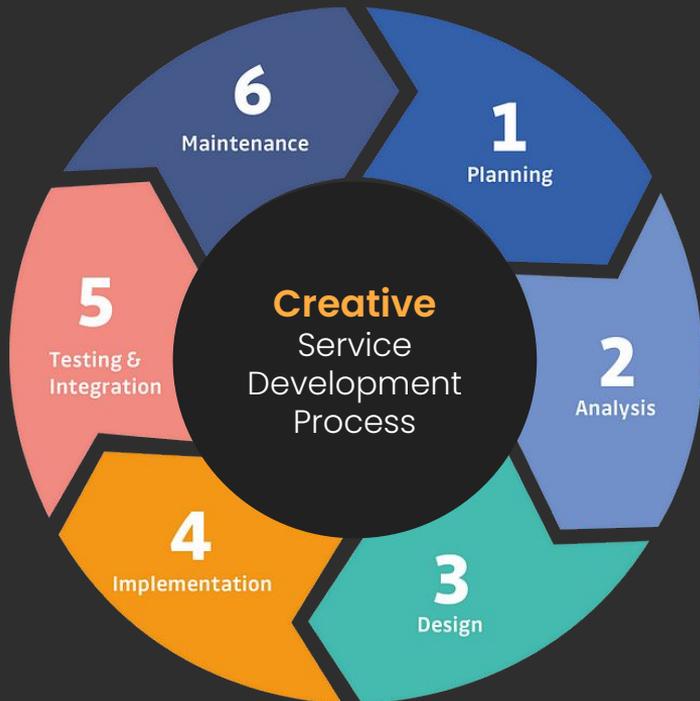
Multi-tenant platform with data and configuration isolation



Integration middleware high-level architecture



Create **Digital Service** in a single **Creative** process

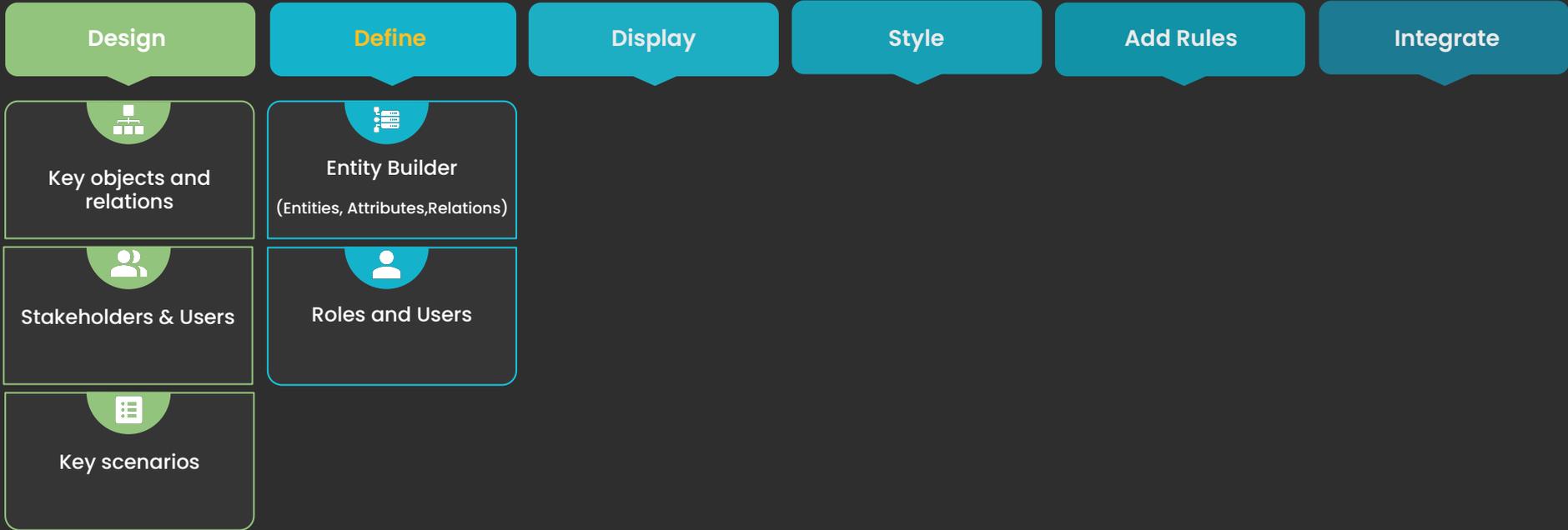


Methodology-flexible solution:
from **Waterfall** to **Agile**

Accelerates the
time-to-market for
new services

Simplifies delivery
of **complicated** services

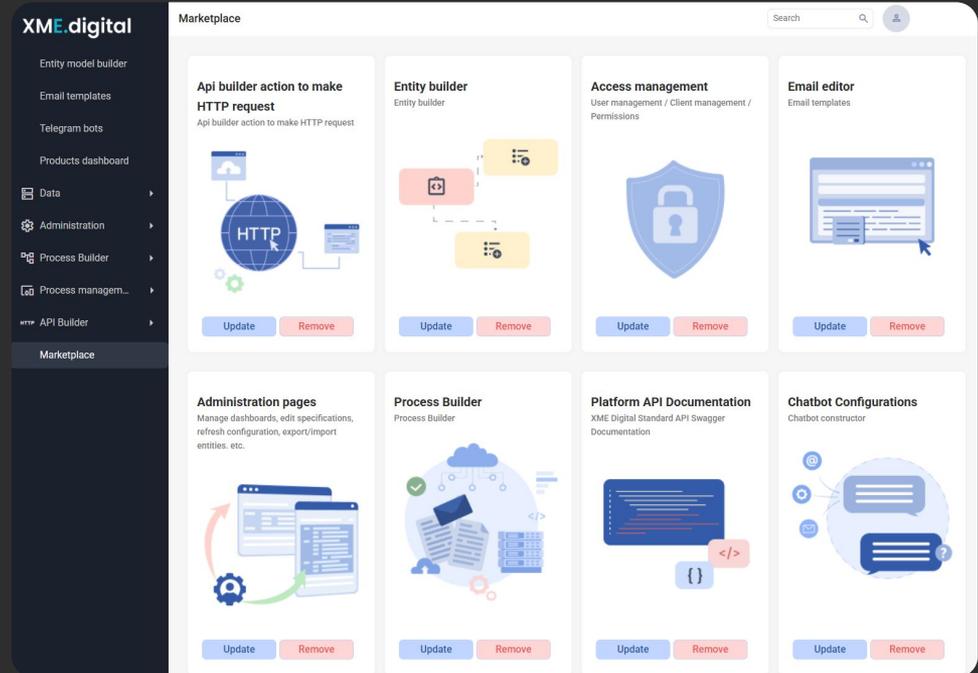
Create Digital Service in a single Creative process

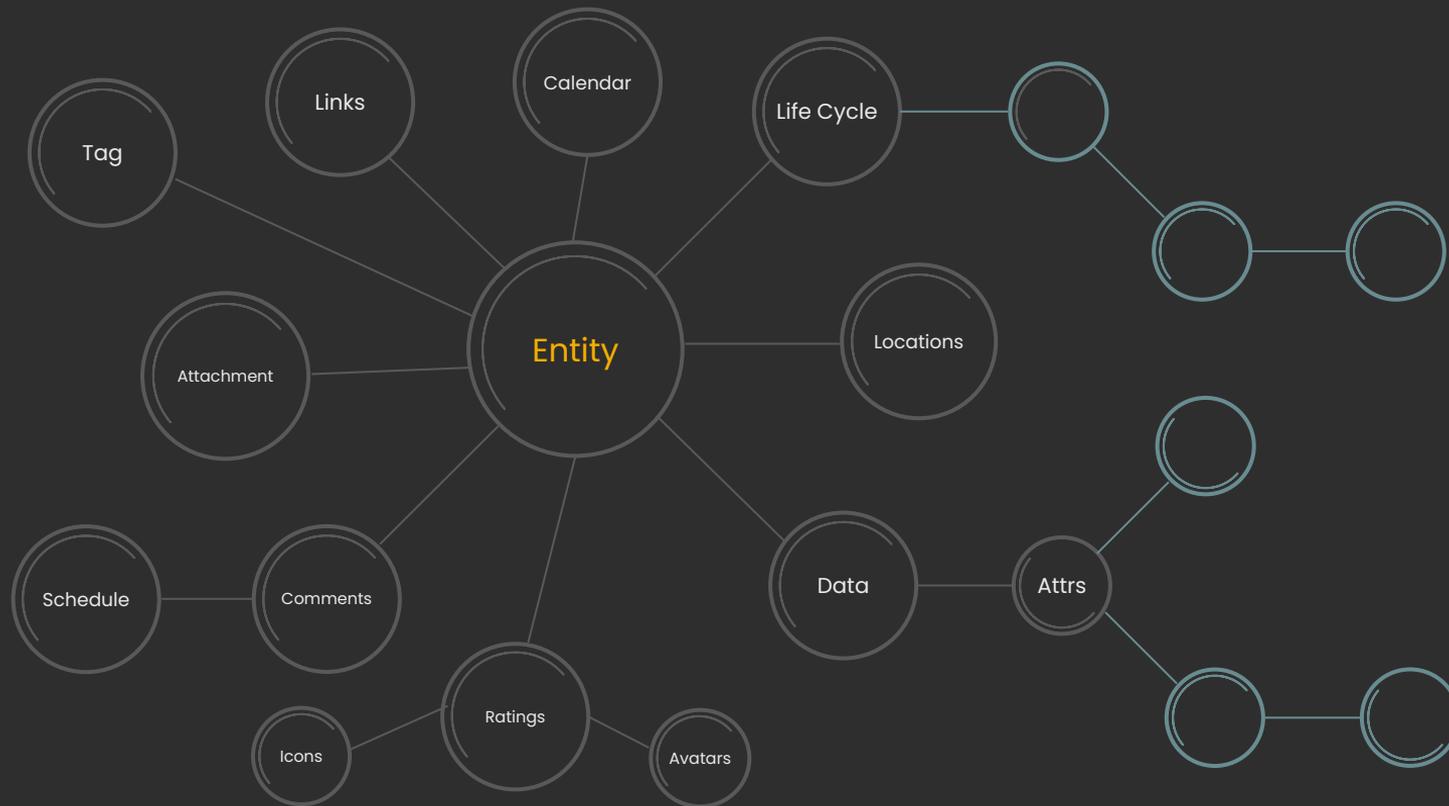


Component store contains **dozens available options** for use as SaaS or install on-premise

5 steps to get your Service READY:

- Choose a **template** to start from
- **Customize** branding and color schema
- **Add or remove components** to present operator-specific business model
- Easily **configure component settings**
- **Tailor dashboards** for best visualization
- **Integrate** by using Visual API builder

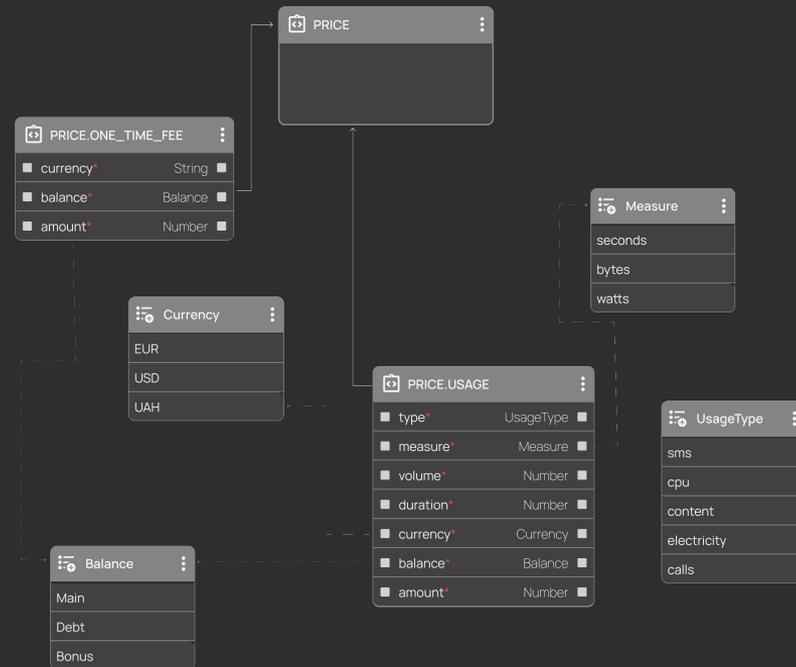




Dynamic and still consistent data model

No-Code **easy and fast** object model configuration**KEY FEATURES**

- Visual **drug-n-drop** editor
- **Built in** entity properties, links and fields configurator
- Changes **applying on the fly**
- Embedded into every XME tenant **by default**
- Configuration stored in **JSON & YAML**



Entity model builder

YOUR LOGO XME

- Dashboards
- Test
- Data >
- Customization >
- Demo builder
- Entity model builder
- Specifications
- Privileges
- Email templates
- API
- Administration >
- Customization

Entity

Class

Enum

Type

Поиск

Serhii

Get last model updates

Save

100%

Entity specification updated Apply changes X

```
classDiagram
    class LIBR_BALANCE {
        amount string
        type BALANCE_TYPE
    }
    class PERSONAL_INFORMATION {
        firstName string
        lastName string
        address string
    }
    class LIBR_ENTITY {
        address Address
        organizationName string
        links LIBR_ENTITY_TO_LIBR_BALANCE
    }
    class BALANCE_TYPE {
        PRIMARY string
        SECONDARY string
    }
    class LIBR_PAYMENT {
        date datetime
        amount number
        targetBalance LIBR_BALANCE
        comment string
    }
    class Address {
        country string
        region string
        city string
        amount string
        house string
        apartment string
        comment string
    }
    LIBR_ENTITY --> LIBR_BALANCE
    LIBR_ENTITY --> PERSONAL_INFORMATION
    LIBR_ENTITY --> BALANCE_TYPE
    LIBR_ENTITY --> LIBR_PAYMENT
    LIBR_ENTITY --> Address
```

Entity details (LIBR_ENTITY):

- id: number
- userId: number
- googleName: string
- googleFirstName: string
- googleLastName: string
- firstName: string
- lastName: string
- phoneNumber: string
- email: string
- password: string
- refreshToken: string
- accessToken: string
- expireDate: number
- isActive: boolean
- inputValue: inputValue
- userData: object
- searchResult: object
- functionResult: object
- vars: object
- rowId: number
- row: ROW
- rowId: number
- row: ROW

tb29a30ee.xme.digital/dashboard/entity-model-builder

YOUR LOGO XME

- Dashboards
- Test
- Data
- Customization
- Demo builder
- Entity model builder
- Specifications
- Privileges
- Email templates
- API
- Administration
- Customization
- Testing dashboard
- Адміністрування
- Dashboards

Entity model builder

Поиск Serhii

Properties Advanced

Entity title: UserEntity
Type key: USER_ENTITY

Display name	Key	Type
Address	address	Address
Organization Name	organizationName	String

Is field required Unique field Is field nullable

Pattern:

Format: Min length: Max length:

Default value:

Links

Link key	Target entity	Relation type
USER_ENTITY_TO_USE	USER_BALANCE	SEARCH

Link title:

Link back title:

Cancel Save

YOUR LOGO
XME

- Data
- Customization
- Dashboards
- Entity model builder
- Specifications
- Privileges**
- Email templates
- API
- Telegram bots
- Administration

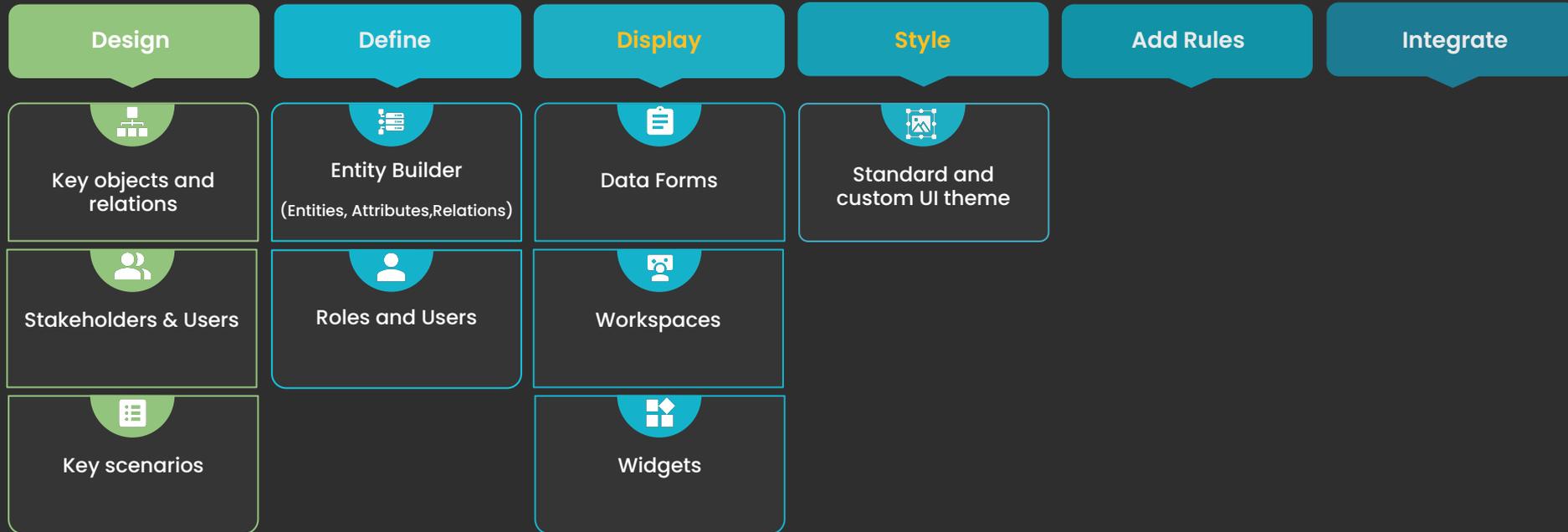
Permission tree management

Filter Type

<input type="checkbox"/>	Permission	Type	Label/Resource condition	
> <input type="checkbox"/>	BASIC-PERMISSION Permission to get basic application access	SYSTEM	-	+
▼ <input type="checkbox"/>	READ-APPLICATIONS	SYSTEM	-	+
▼ <input type="checkbox"/>	GET-USERS-LIST	SYSTEM	-	+
▼ <input type="checkbox"/>	DELETE-USER	SYSTEM	-	+
> <input type="checkbox"/>	CREATE-USER	SYSTEM	Label	+
	GET-USERS-LIST	hierarchy-privileges	-	
	USER.CREATE	uaa	-	
> <input type="checkbox"/>	UPDATE-USER	SYSTEM	-	+
	GET-USERS-LIST	hierarchy-privileges	-	
	USER.UPDATE	uaa	-	

Cancel Save

Create **Digital Service** in a single **Creative** process

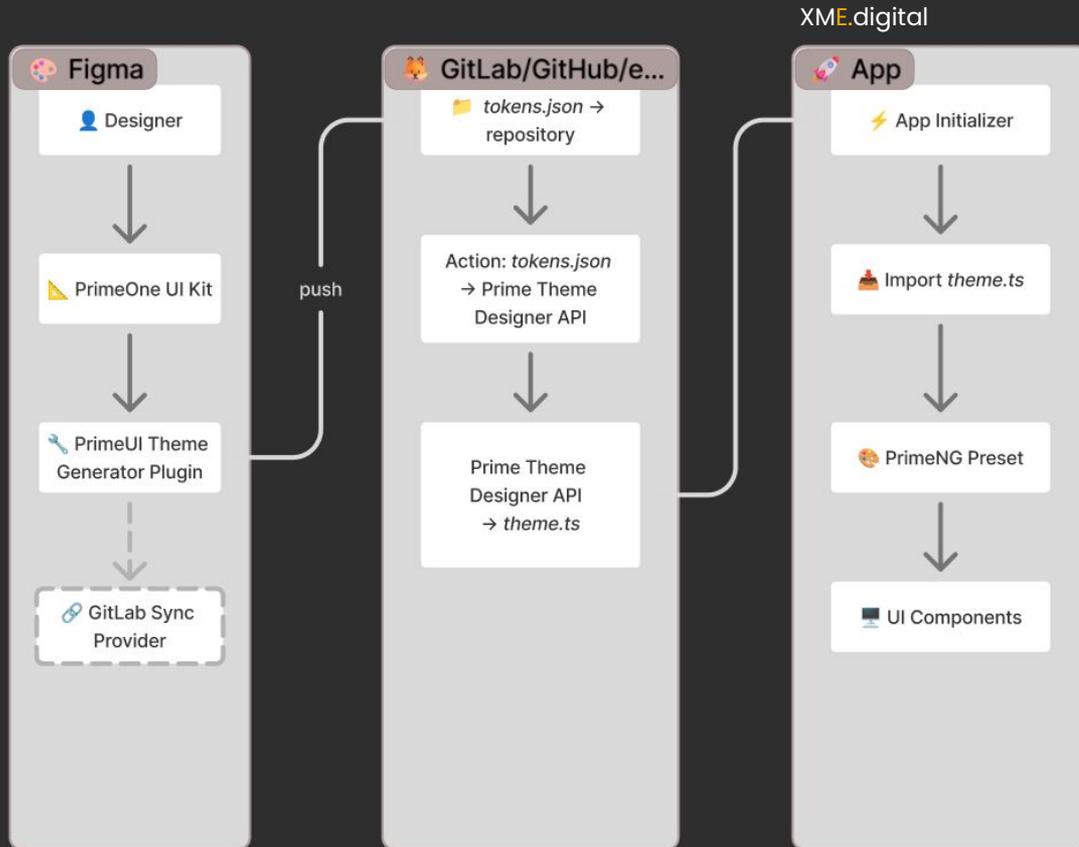


The screenshot displays the XME.digital UX Widgets Builder interface. On the left is a navigation sidebar with options: Data, Customization, Administration, Flow management, and Applications list. The main area is titled 'Application' and contains a table with columns: Id, Statekey, Name, and Typekey. The table lists applications with IDs 1009 through 1000, each with a 'New' button, an 'Action' button, and a trash icon. Below the table is a pagination control showing page 1 of 5 and a dropdown for 10 items per page. On the right is a configuration panel with tabs for 'General', 'Fields', 'Actions', and 'Create button'. The 'Fields' tab is active, showing configuration options for 'Typekey', 'Expand', 'Avatar', 'Id', and 'Key'. The 'Id' field is expanded to show options like 'Title', 'Icon', 'UseKeyword', 'Sortable', 'HiddenTitle', 'Max length', 'Min length', 'Is enum', and 'Lined width (px)'.

Id	Statekey	Name	Typekey
1009	New	Active	APPLICATION Action
1008	New	Active	APPLICATION Action
1007	New	Active	APPLICATION Action
1006	New	Active	APPLICATION Action
1005	New	Active	APPLICATION Action
1004	New	Active	APPLICATION Action
1003	New	Active	APPLICATION Action
1002	New	Active	APPLICATION Action
1001	New	Active	APPLICATION Action
1000	New	Content	APPLICATION Action

KEY FEATURES

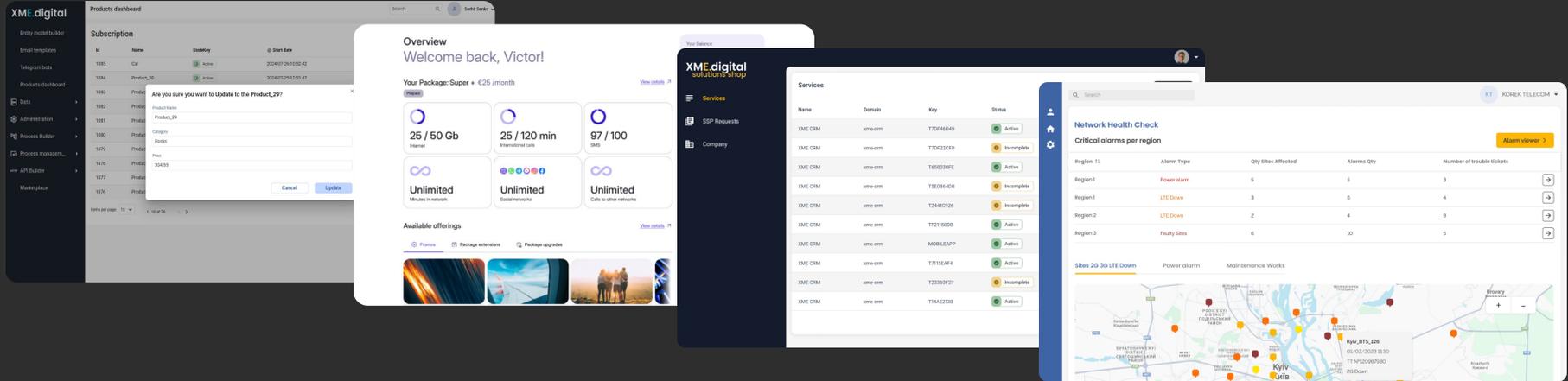
- Intuitive **editor** view
- **Layout** design
- **Column** structure configuration
- **Actions** and **functions** linking
- **Changes** implementation immediately



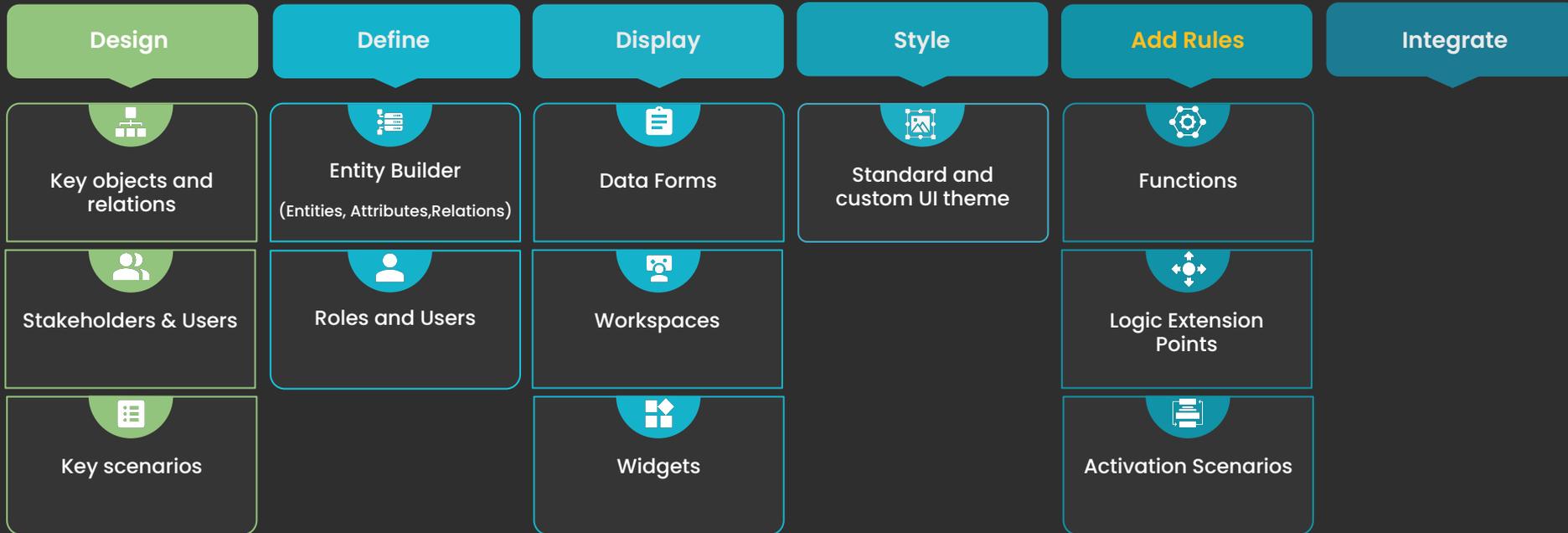
A Modern Approach to Design as Code:

- Automated Design-to-Code Synchronization
- Faster Theming & Rebranding
- Clear mapping between design tokens and UI components
- Accessibility & Compliance Validation

- Branding and styling of the UI theme for consumers and partners view
- User-centric configurable workspaces and widgets
- Easy-to-extend business widgets catalog



Create **Digital Service** in a single **Creative** process



Yaml as a Part of the Platform

WHAT is Yaml

- Human-readable data format - *a simple syntax to learn*
- Easily converted into other data formats
- Supports wide range of data structures

XME.digital use cases:

Configuration files

Multi-profile structures

Data exchange

Nested data structures

The screenshot shows the 'Administration' section of the XME.digital platform. The 'Configuration' tab is active, displaying a configuration page for 'XMPonline'. The page includes a search bar, a user profile icon, and navigation tabs for 'Specifications', 'Dashboards', 'Translations', and 'Form Playground'. A 'Validate' button is visible above the YAML editor. The editor contains the following configuration:

```

1 ---
2 logUrl: 'https://ci4demo.devlop.um-online.com/assets/xme-logs.svg'
3 favicon: 'data:image/svg+xml,svg width=16 height=16 viewbox=0 0 16 16 fill=none xmlns=http://www.w3.org/2000/svg?<g clip-path=url(#223clip0_76)
4 name: XMPonline
5 langs:
6   - en
7   - uk
8 sidebar:
9   hideAdminConsole: true
10  hideApplication: true
11
12 disableIneline: true
13
14 theme: slategray-theme
15 iconsInMenu: true
16 defaultDetailLayoutType: 'COMPACT'
17 applications:
18   config:
19     useMenuTable: true
20
21 defaultDashboard: welcome
22 navbar:
23   layout:
24     selector: 'ext-ee-core/ee-user-menu'
25     config:
26       hideFooter: true
27       menuItems:
28
29 defaultLayout:

```

The screenshot shows a code editor with a YAML configuration for 'tenant-profile.yml'. The configuration defines a state machine with states 'ACTIVE' and 'BLOCKED', and a list of data specifications.

```

25 - NONE
26 saveFunctionContext: false
27 - key: FIND-TICKETS
28   name: { en: "FIND-TICKETS" }
29   actionName: { en: "FIND-TICKETS" }
30   saveFunctionContext: false
31   withEntityId: true
32   allowedStateKeys:
33     - ACTIVE
34   onlyData: true
35
36 states:
37 - key: ACTIVE
38   name: { en: "Active", uk: "Активний" }
39   icon: local_play
40   color: "#af504d"
41   next:
42     - stateKey: BLOCKED
43       name: { en: "Blocked", uk: "Заблокований" }
44 - key: BLOCKED
45   name: { en: "Blocked", uk: "Заблокований" }
46   icon: block
47   color: "#ff433a"
48   next:
49     - stateKey: ACTIVE
50       name: { en: "Active", uk: "Активний" }
51
52 @ dataSpecInheritance boolean
53 @ descriptionInHeader boolean
54 @ disablePersistentReferenceProcessingSave boolean
55 @ fastSearch array
56 @ ignoreInheritanceFor array
57 @ indexAfterDeleteEnabled boolean
58 @ indexRequired boolean
59 @ isNameRequired boolean
60 @ links array
61 @ lockLines array
62 @ multiColumn boolean
63 @ numberIn array
64 @ requiredIn array
65 @ requiredIn boolean
66 @ requiredIn boolean
67 @ requiredIn boolean
68 @ requiredIn boolean
69 @ requiredIn boolean
70 @ requiredIn boolean
71 @ requiredIn boolean
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98 @ requiredIn boolean
99 @ requiredIn boolean
100 @ requiredIn boolean

```

Logic Point Extension usage

Logic Point Extension (LEP) is for adding custom logic, actions, functions

SUPPORTED LANGUAGES

- Groovy
- JS
- TypeScript

LEP example (Groovy)

The change of the product's status due to action 'Cancel the Product'

The screenshot shows an IDE with a project structure on the left and a Groovy file on the right. The project structure includes a 'lifecycle' folder with a 'chained' sub-folder containing several Groovy files. The file being edited is 'ChangeState\$\$PRODUCT\$ONE_TIME\$\$CANCELED\$\$around.groovy'. The code in the editor is as follows:

```

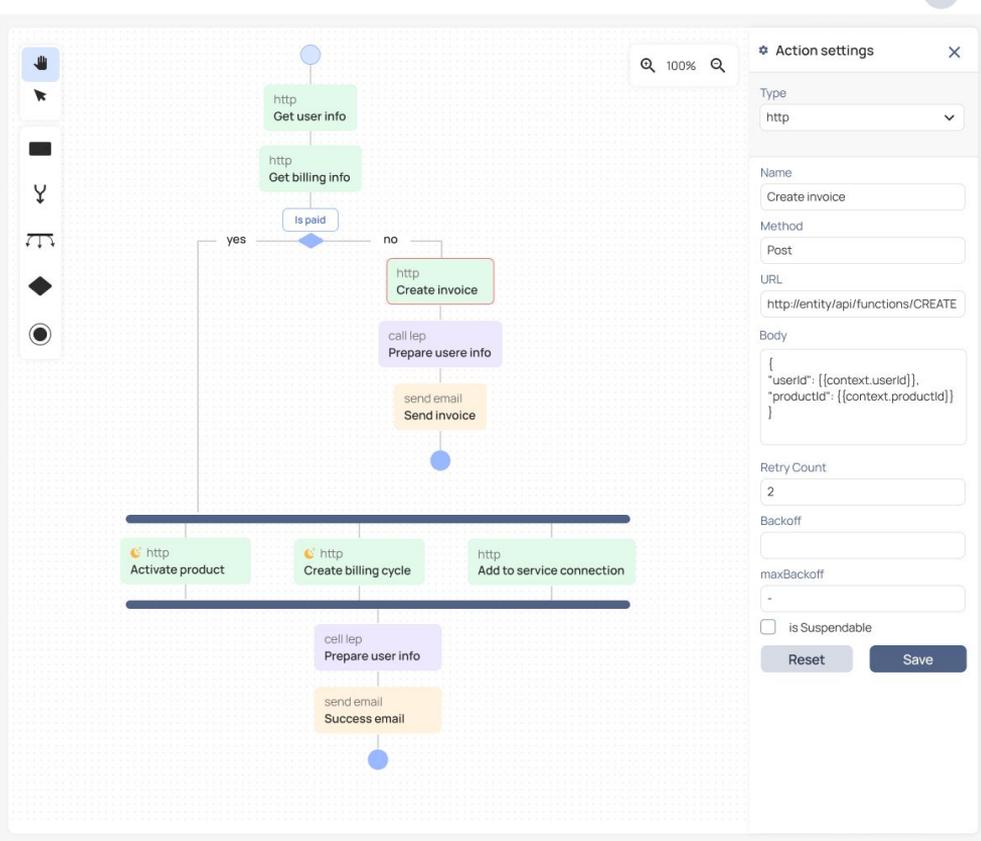
1 package .....entity.lep.lifecycle.chained
2
3
4 import .....entity.lep.commons.campaign.CampaignService
5 import com.icthh.xm.ms.entity.domain.XmEntity
6 import com.icthh.xm.ms.entity.domain.ext.IdOrKey
7 import com.icthh.xm.ms.entity.repository.XmEntityRepository
8 import com.icthh.xm.ms.entity.service.XmEntityService
9
10 XmEntityService entityService = lepContext.services.xmEntity
11 XmEntityRepository entityRepository = lepContext.repositories.xmEntity
12 IdOrKey idOrKey = lepContext.inArgs.idOrKey
13 XmEntity product = entityService.findOne(idOrKey)
14 product.statekey = 'CANCELED'
15 CampaignService campaignService = lepContext.lepServices.getInstance(CampaignService.class)
16 campaignService.updateCampaignStateByProducts(product.data.campaignId?.toLong())
17 return entityRepository.save(product)
18

```

KEY FEATURES

- Dynamic logic customization w/o restart
- LEP per tenant/application/service
- Common code library ability
- Tenants/Application inheritance (*tenant templates*)
- Unit and integration testing for custom code (*at the moment for Groovy only*)
- JetBrains Idea plugin

Activity diagram



Low-code tool for business processes configuration

KEY FEATURES

- Visual **drag-n-drop** editor
- Changes **applying on the fly**
- Embedded into every XME tenant **by default**
- **Actions** (*http, entity action, custom action, email & etc*)
- Async actions execution
- Configuration of parallel or consecutive execution
- Retry configuration

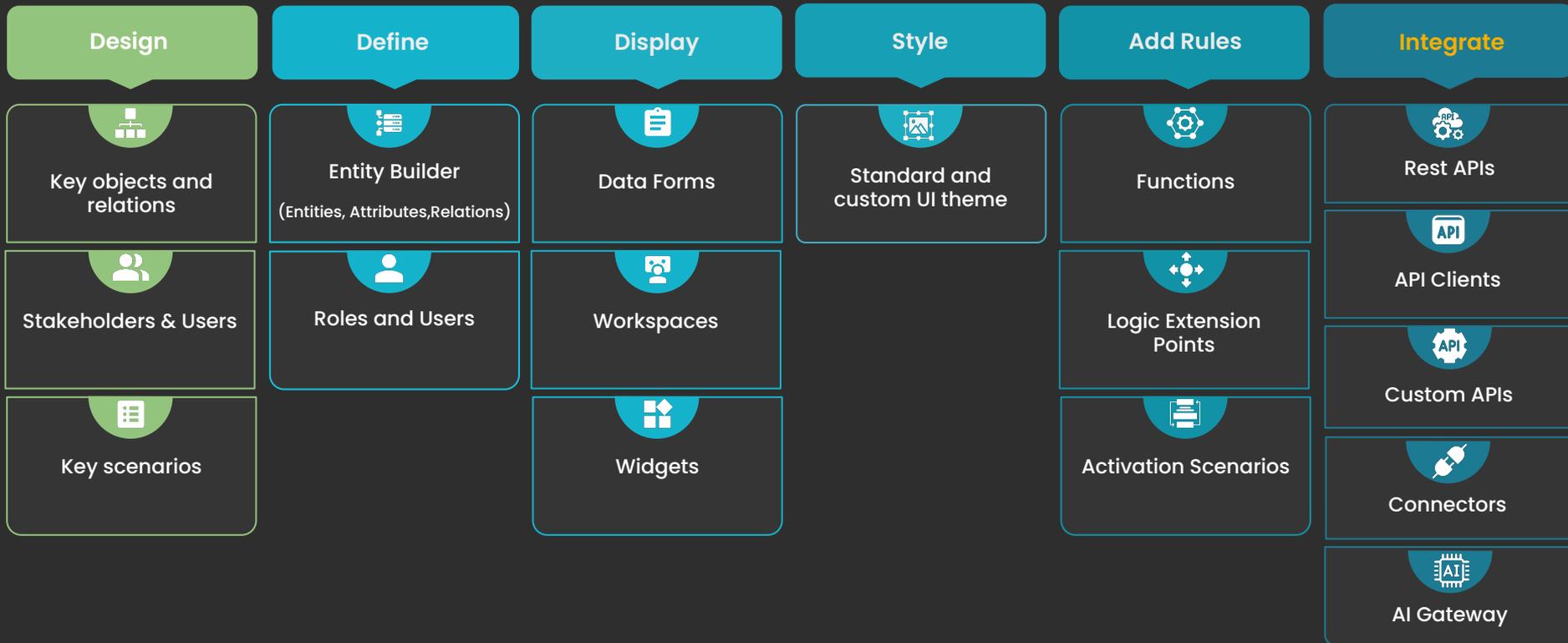
```
200 - key: VAS-SMSC-FILE-OVER-SFTP
201 - key: RLC-FILE-OVER-SFTP
202 - key: SAS-FILE-OVER-SFTP
203
204 - key: VAS-IM-FILE-OVER-SFTP
205 - key: VAS-RBT-FILE-OVER-SFTP
206 - key: SEND-TO-IMS
207
208 - key: MNP-TRANSACTION-RETRY
209   retryPolicy: RETRY
210   retryCount: 1
211   tasks:
212     - key: RESEND-EVENTS
213
214 - key: CHANGE-SERVICE
215   group: /changeservice/
216   retryPolicy: RETRY
217   backOff: 1
218   maxBackOff: 2
219   retryCount: 1
220   tasks:
221     - key: CHANGE-SERVICE
222       retryPolicy: RETRY
223       backOff: 1
224       isSuspendable: true
225       maxBackOff: 2
226       retryCount: 1
227       next:
228         - CALLBACK-HANDLE
229         - UNEXPECTED-ERROR
230
231 - key: CALLBACK-HANDLE
232   retryPolicy: RETRY
233   backOff: 1
234   maxBackOff: 2
235   retryCount: 1
236   next:
```

Text representation of the Activity Flow in **Yaml configs**

WHEN to USE?

- Useful for **small changes**
- Can be **used for export/import** purposes for other tenant
- Changes are visible in Activity Diagram and vice versa
- All main Key Features of Yaml are present

Create Digital Service in a single Creative process

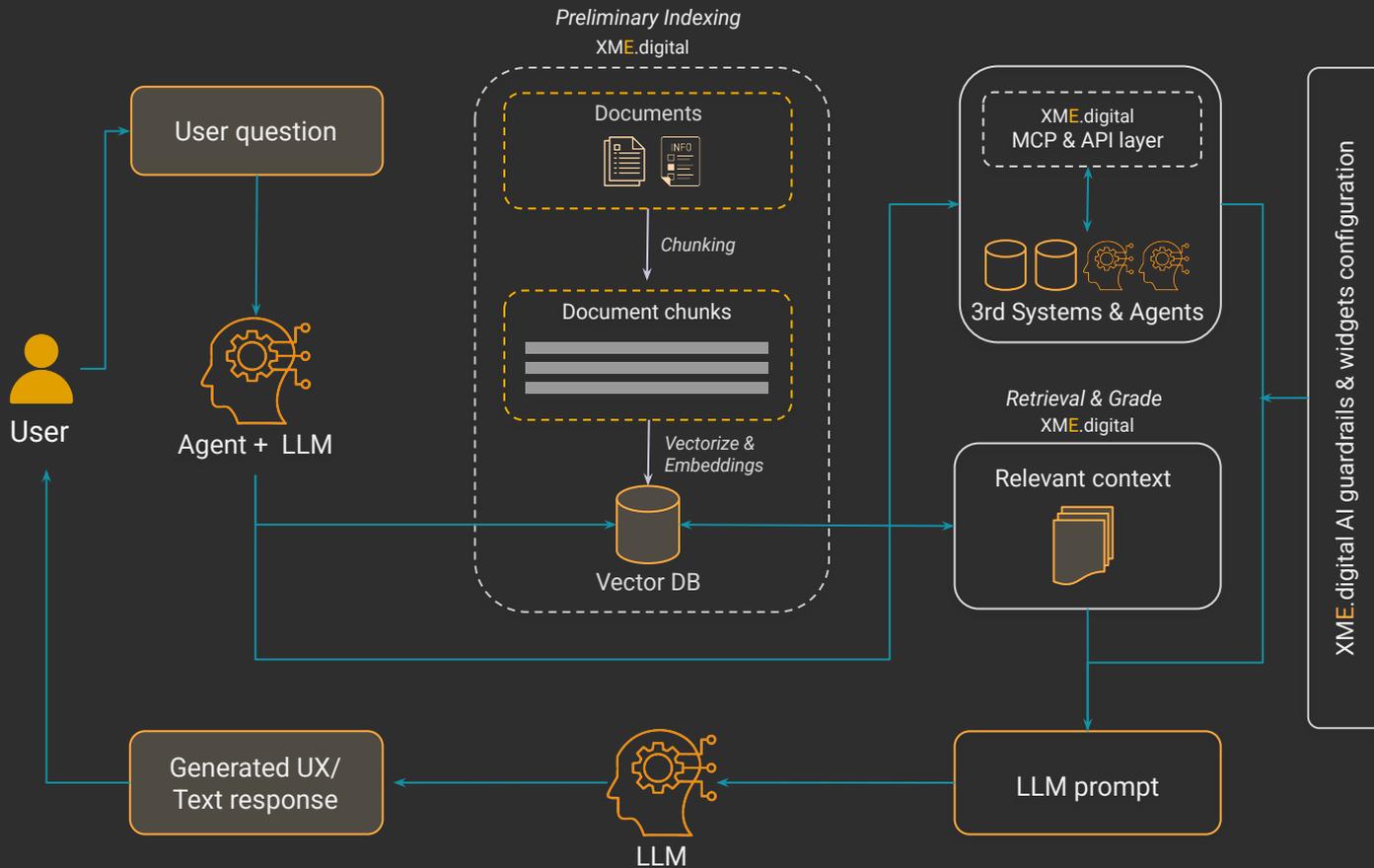


Low-code tool for easy and smooth API configuration

The screenshot displays the XME API Builder interface. On the left is a navigation sidebar with categories like Data, Customization, Dashboards, Activities, Entity model builder, Specifications, Privileges, API, Email templates, Administration, Dynamic api, Flow management, and Resource management. The main workspace shows a flow diagram with a 'Save' button at the top. The flow starts with a start node, followed by an 'Http request CALL_APPLICATION' action, and then a 'Mapping data by scopes RESTRICT_BY_SCOPE' action. A 'Properties' panel on the right shows configuration for the 'RESTRICT_BY_SCOPE' step, including 'Step key', 'Action type*', 'Mapping data by scopes', and 'Source data' (with a code editor showing `f 1 !epContext.step.input`). Below this, there are input fields for mapping data: 'personal_info' to 'personallInfo', 'profile' to 'profile', 'billing_address' to 'paymentInfo.billingAddress', 'card' to 'paymentInfo.card', and 'transactions' to 'paymentInfo.transactions'. There is an 'Add item' button and an 'Iterable task' checkbox. At the bottom are 'Cancel' and 'Save' buttons.

KEY FEATURES

- Visual **drag-n-drop** editor
- Changes **applying on the fly**
- Embedded into every XME tenant **by default**
- **API connector types** (*HTTP Auth, JDBC, OLE, BaseUrl, FTP*)
- Various **trigger types** to initiate API flow launch
- **SQL** based connectors
- Easy to work with data structures and perform mapping operations
- **Schedule** configuration included

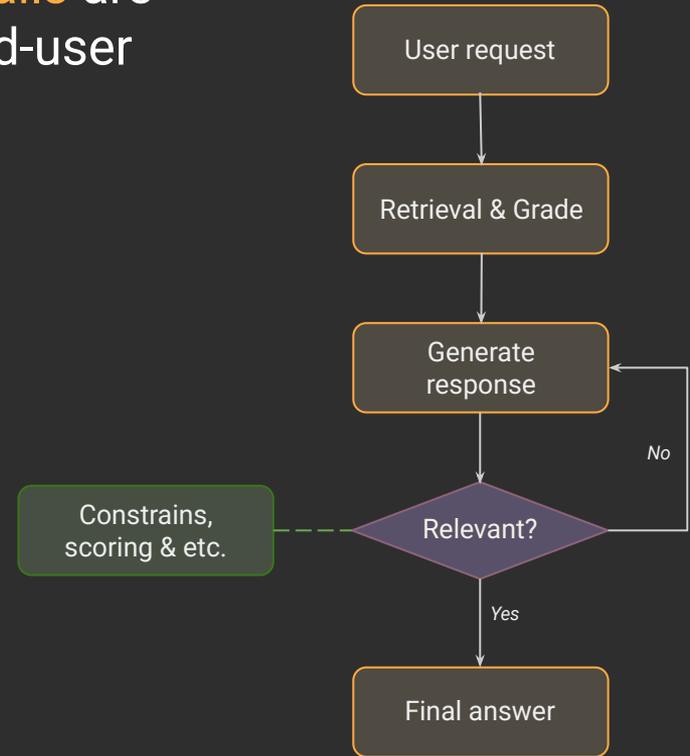


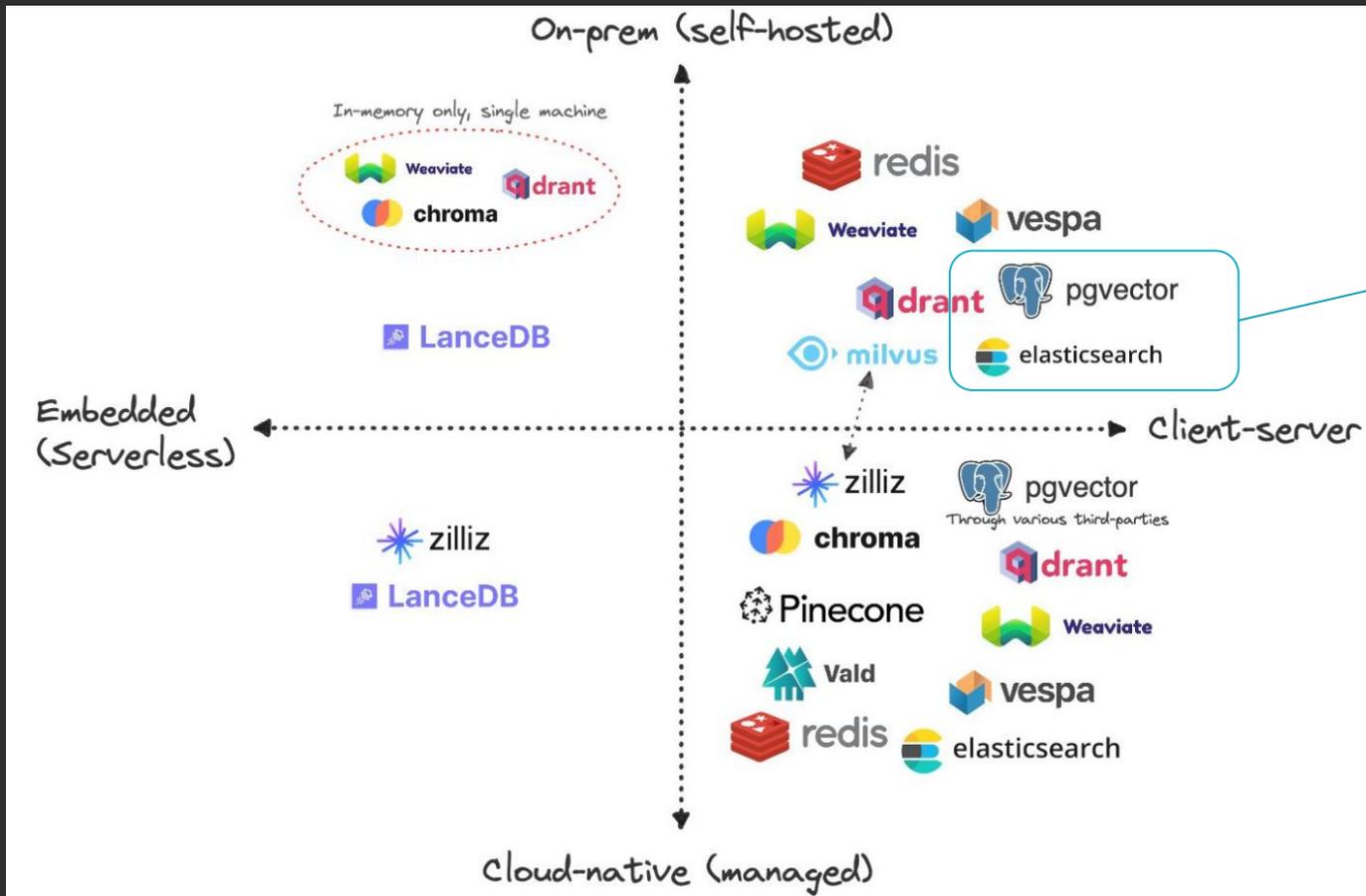
1. System retrieves the most relevant content & enrich the response by real data
2. LLM compiles the answer
 - a. Text message (Chat)
 - b. UX dashboard
3. The user always gets one clear answer, not system noise.

Generative UX – Hallucination mitigation

Embedded into XME.digital platform **AI guardrails** are essential constraints to control and correct end-user result provided by **Generative UX**.

1. UX dashboards compilation over creation from scratch
 - a. AI decides what widgets better suits user request
 - b. Widgets ranking and scoring upon user request
2. Validation against format and schema
3. Layout is decided by system but not LLM
4. Constraints and veto layer
 - a. Conflicting widgets
 - b. 'Too many widgets' action and etc.
5. LLM creativity limitation
6. Observability and optimization cycle (LMOps)





XME.digital platform built-in retrieval engines

	XME.digital Enterprise for sustainable business with strict compliance requirements	XME.digital Cloud for growing business*	XME.digital White Label to build your own product
Open-Source Core	✓	✓	✓
Enterprise components	✓ Subscription / License	✓ Components store	✗ One-time license
Creative Studio <i>Visual tools for engineers</i>	✓	✓	✗
UI Widgets Catalog	✓	✓	✗
Deployment	On-premise/ Private Cloud	XME SaaS Cloud	Private Cloud
Support 7x24	3rd-level / Managed Services	Included	3rd-level / Managed Services



Industry

Telecommunications

3+ years
of partnership

Challenges



Outdated Cold Fusion
business support system



Technological limitations



Lack of tech expertise

Ticinocom SA is an internet service provider based in Ticino, Switzerland. Since 1996, the company offers technical services like broadband internet access on ADSL / ADSL2+, VDSL, SDSL and fiber-to-the-home (FTTH); VoIP, traditional landlines and virtual PBX; housing and hosting, etc.

XME.digital platform capabilities

Product catalog
update

Self-service for
end customers

Migration to microservice-based
architecture

4X

**faster service availability
check**

15K+

**customers moved
in the new system**

25%

**faster time-to-market
of new services**



Industry

Telecommunications

4+ years of partnership

Challenges



Scalable software architecture



Post-paid subscriptions



Creating core platform functionality, while managing customer adaptations

Vodafone Ukraine was looking for a technological partner who can develop a solution that combines all the MNP-related process in a single point of control. The solution should be flexible, scalable, ready for various integrations with both internal and external software.

XME.digital platform capabilities

Service order management
processes orchestration

Tons of internal & external
integrations

Integration to 3rd-party
platforms and financial services



Unified point of control for MNP

E2E

provisioning of core components



Flexible integration

NDA

Industry

Telecommunications

2 years
of partnership

Outcomes



Accelerated product development with platform proprietary low-code tools



High-Availability Architecture from Scratch



Easy and simple platform adoption by the partner dev team

Client - global provider of telecom solutions, software products and services for communications networks. With decades of industry experience and a presence in multiple countries, it delivers scalable, reliable solutions that integrate into existing telecom infrastructure to support growth and competitive differentiation.

XME.digital platform capabilities

Messaging & communication on a single platform

Seamless, unified connectivity for corporate teams

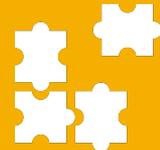
Simple to complex call flows via visual tool



Specially designed customized architecture



XME.digital components reuse



Integration with Telco Core for telephony

See your idea in action in a matter of weeks with XME.digital platform

Discover [More](#) 



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