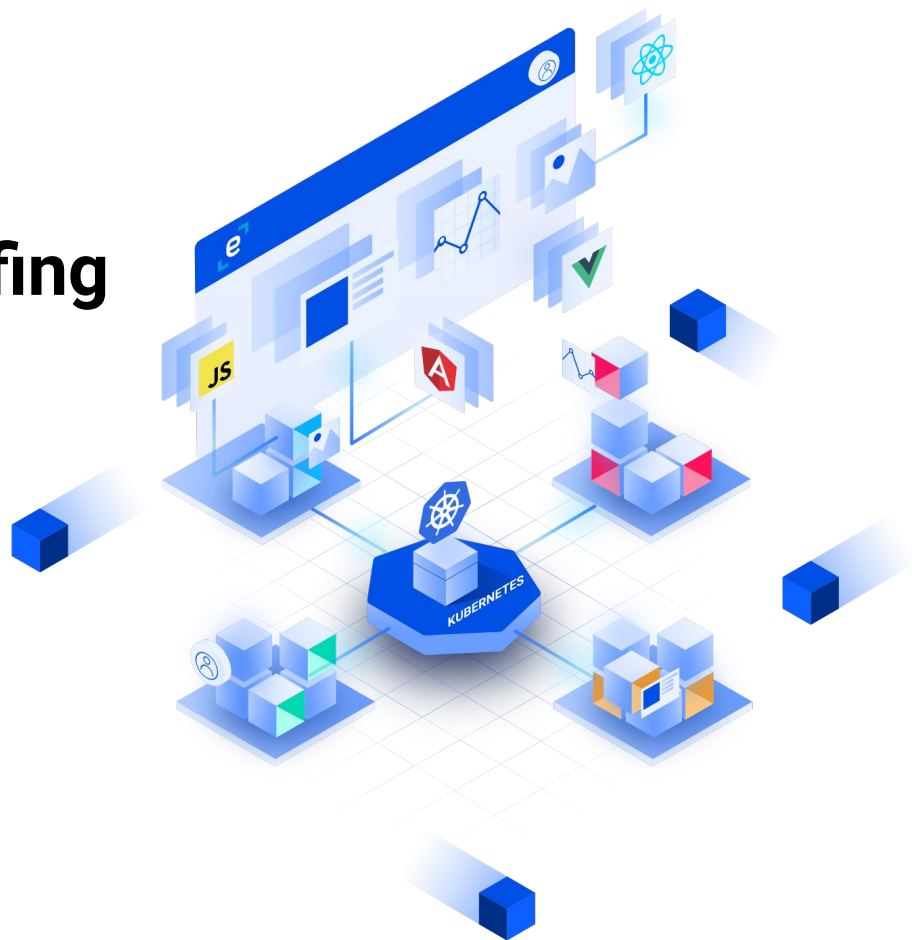




Entando 7.1 Partner Briefing

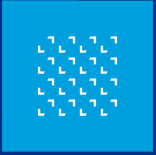
October 18, 2022



Agenda

- 1 The Landscape
- 2 What's New in 7.1
- 3 What's Next
- 4 Q&A





The Landscape



The future: Composable Applications

“By 2023, organizations that have adopted a composable approach will **outpace competition by 80%** in the speed of new feature implementation.”

Source: Gartner Top Strategic Technology Trends for 2021 (G00735310)

“By 2024, 70% of large and medium organizations will **include composability** in their approval criteria for new application plans.”

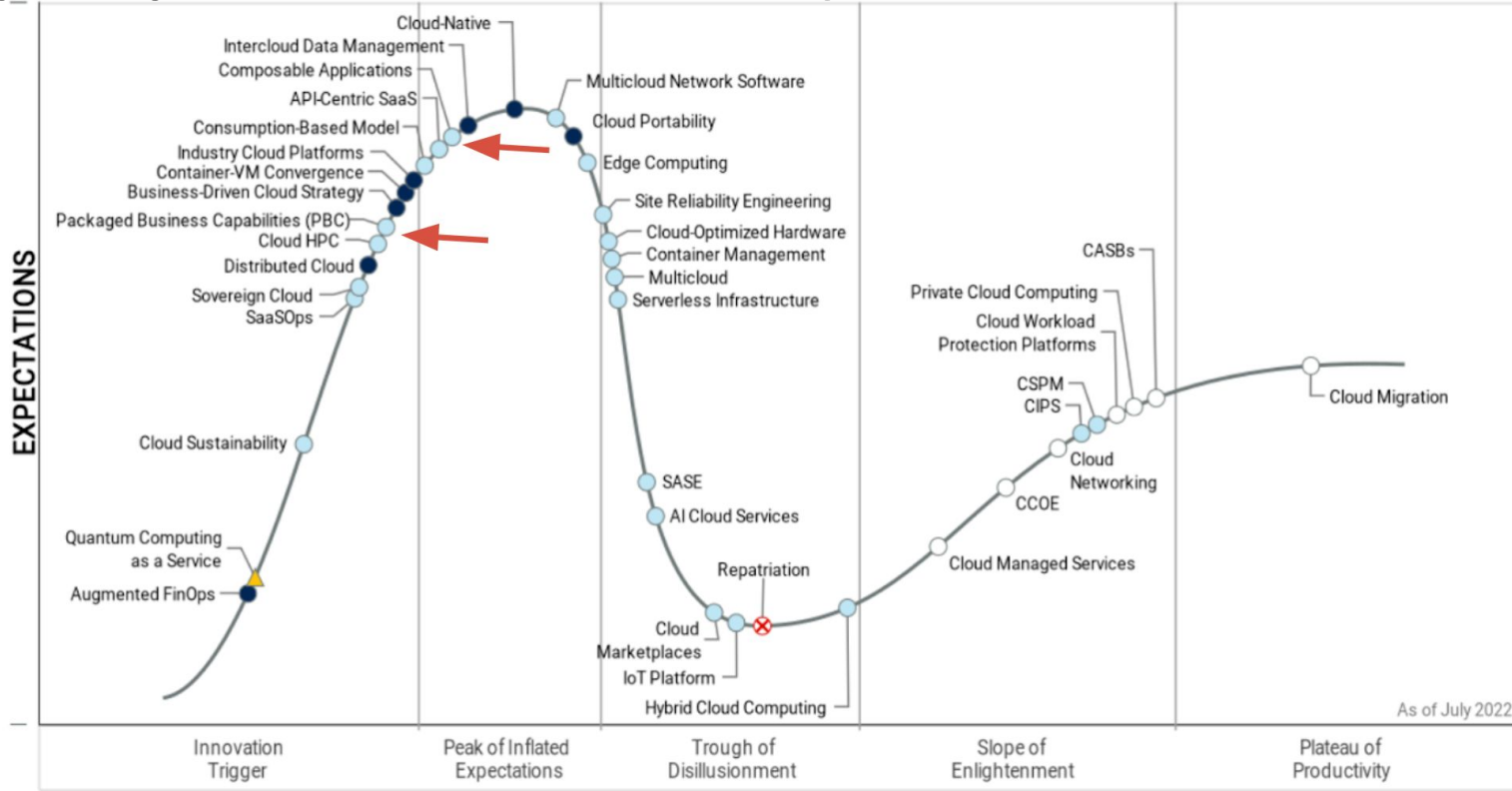
Source: Gartner How to Design Enterprise Applications That Are Composable by Default

“By 2026 integrated application composition platform products will emerge and dominate at **least 65%** of new LOB application initiatives.”

prediction given by Massimo Pezzini at the Gartner Application Innovation & Business Solutions Summit 2021, April 26-27



Hype Cycle for Cloud Computing, 2022



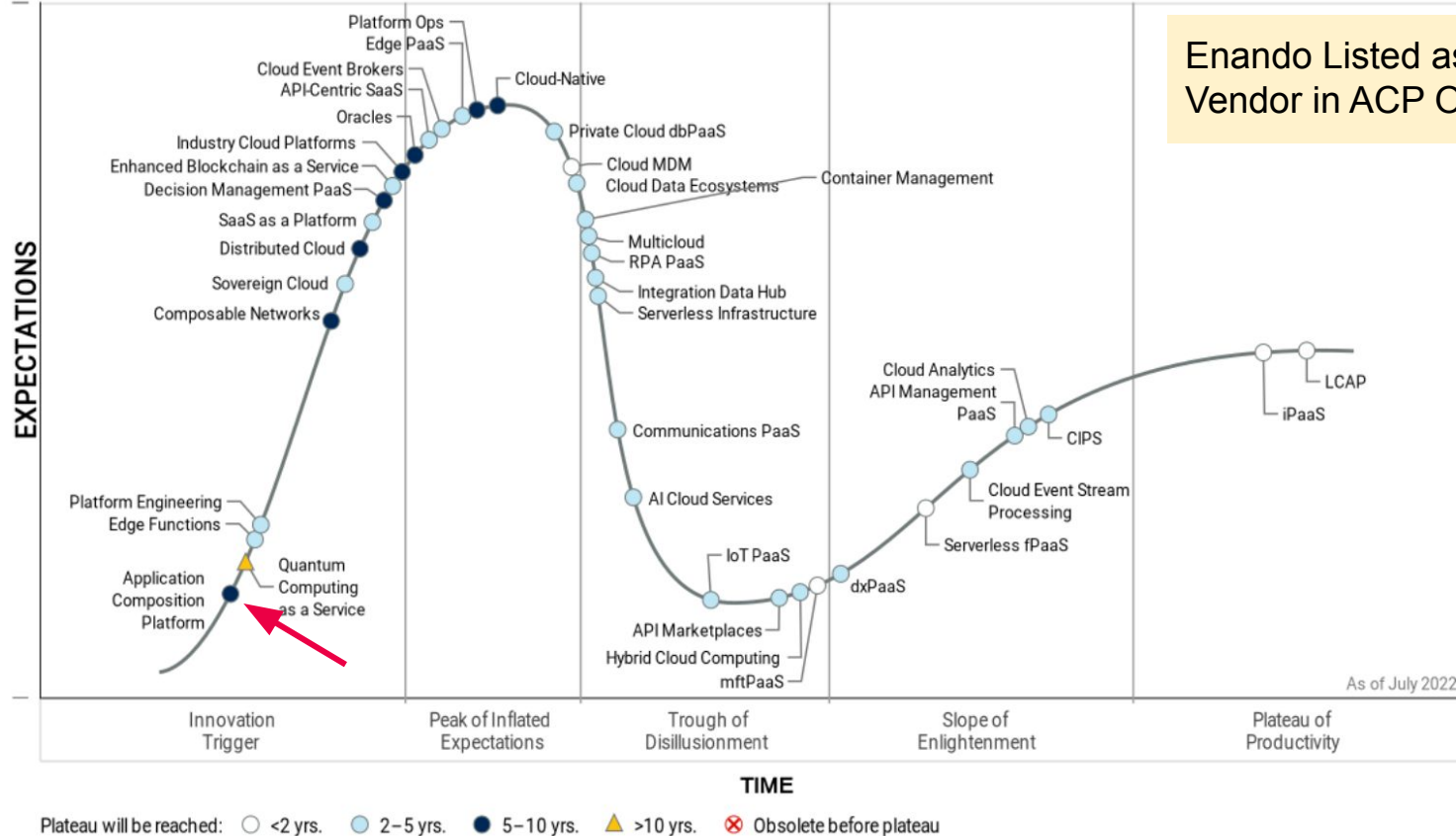
As of July 2022

TIME

Plateau will be reached: ○ <2 yrs. ● 2-5 yrs. ● 5-10 yrs. ▲ >10 yrs. ⊗ Obsolete before plateau



Hype Cycle for Cloud Platform Services, 2022



Three ways to accelerate App Dev

#3.ACP - Reuse Existing PBCs or Leverage as Templates

Software as a Service

- Very fast to set up
- Prebuilt service
- Fully managed
- Lowest customization
- Bring your data

SalesForce.com

Low Code / No Code

- Fast to set up
- Requires minimum coding capabilities
- Click/drag drop, script to build application
- Can integrate, can customize, but restricted

Outsystems

New: Application Composition

- Assemble modules
- Leverage pro-code templates
- Common Data Fabric
- Unified Business APIs
- Unified Best of Breed Stack
- Curated Library of PBCs
- Infinite customization
- Critical for innovation

entando

All 3 will be used within large enterprises for different application requirements



Gartner's definition of ACP

An **application composition platform (ACP)** is any development platform that supports:

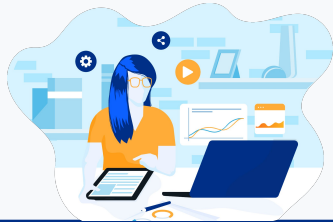
- (1) a prepopulated **catalog** of composable, packaged, software components;
- (2) **creation and cataloging of new packaged software components** through custom development and importing existing assets;
- (3) democratized development and deployment of applications, **assembled** in part from the cataloged packaged components;
- (4) **governance of the life cycle of the cataloged packages and the resulting composed applications.**

Sample vendors: Betty Blocks; Entando; Novulo; Olympe; SAP; Unqork



Application Composition Platform Dev Process

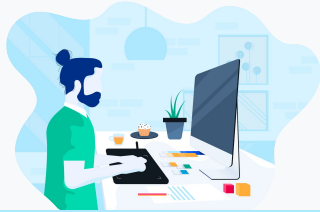
Model the Modular Business Architecture



Enterprise Architect

Selecting, implementing, and designing new applications alongside existing applications for a flexible business architecture

Design, Create the Business Modular Building Blocks



Creators

Developers use the **Component Generator** and **CLI** to **build, package** and **deploy components** to the **central hub**.

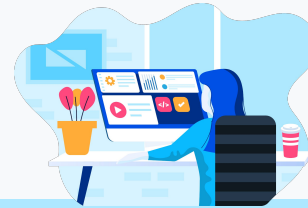
Manage the Marketplace of Building Blocks



Curators

Curators **manage the central repository** for components and business capabilities including content, versioning and metadata.

Use Building Blocks to compose Applications



Composers

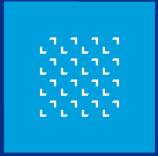
Developers and Business IT use low-code application composition tools and/or UI development frameworks to assemble applications from components.

Use Applications to Achieve Business Goals

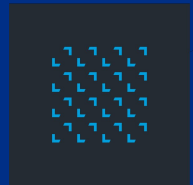


Consumers

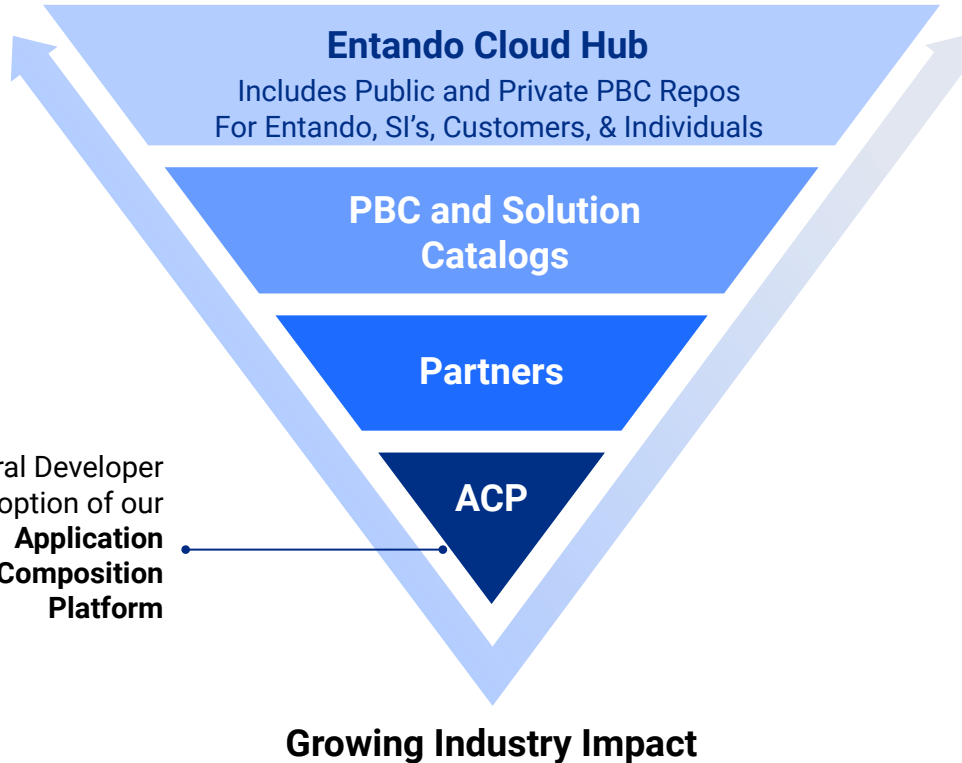
Business owners and users have the ability to use, monitor, analyze, update content/roles/users/rules and provide feedback to Creators/ Composers.



What's New in Entando 7.1?



Entando Vision and Mission



Vision:

An ever growing Hub of PBCs

Mission:

Bridge the gap between Business and IT

Our Commitment to Enterprise Developers

Bring developer joy for composable applications on Kubernetes.

Our Commitment to Our Channel Partners

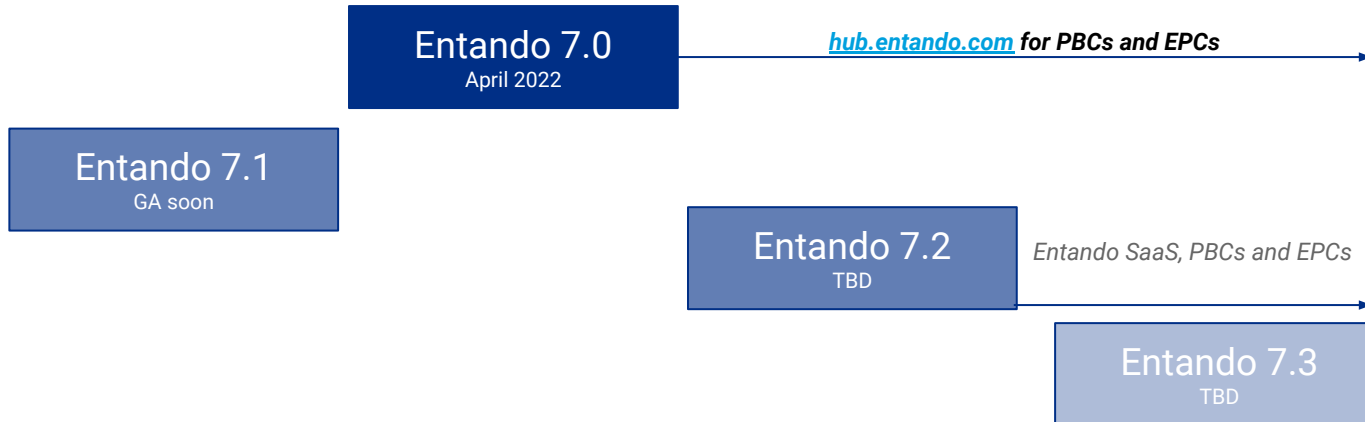
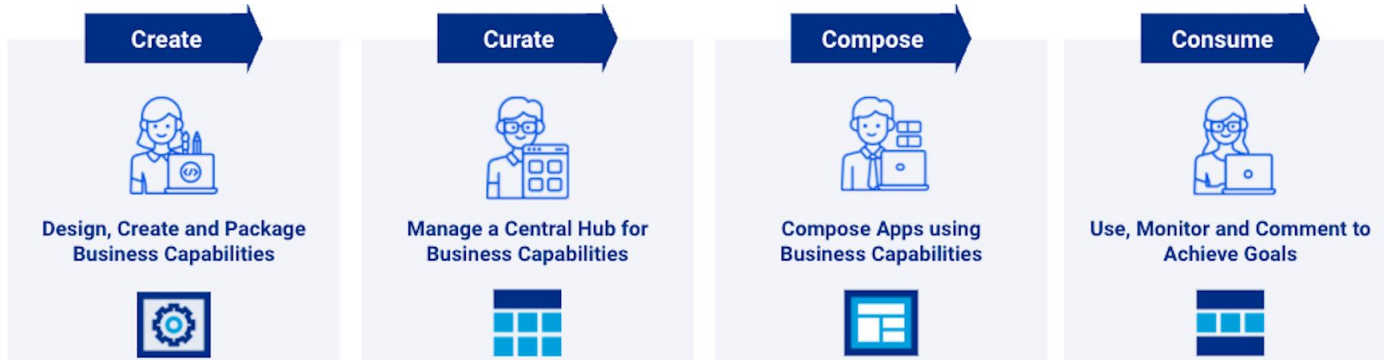
Support System Integrators in the development of new business and new revenue streams

Our Commitment to Our Enterprise Customer

Enable business resiliency by accelerating TTM, reducing runtime costs, and streamlining maintenance for enterprise applications



Product Roadmap Themes



Development Lifecycle by Persona



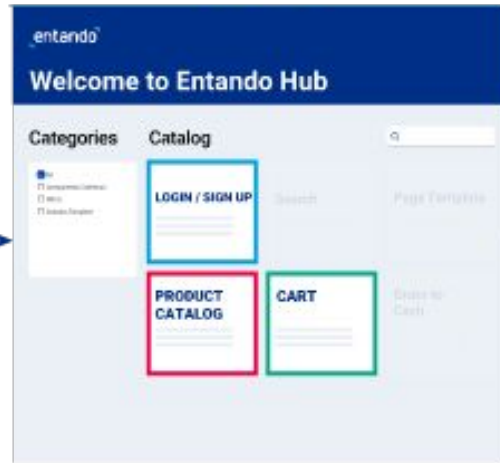
Create



Pro Code



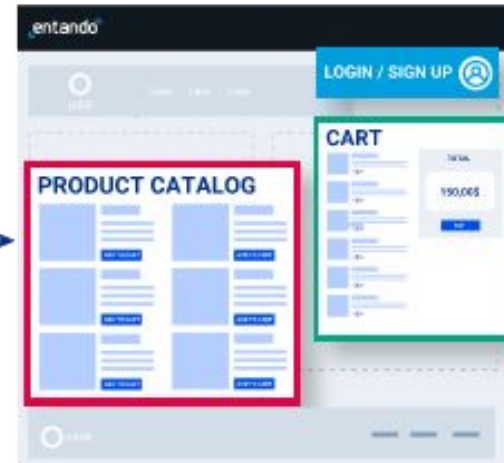
Curate



Low Code



Compose



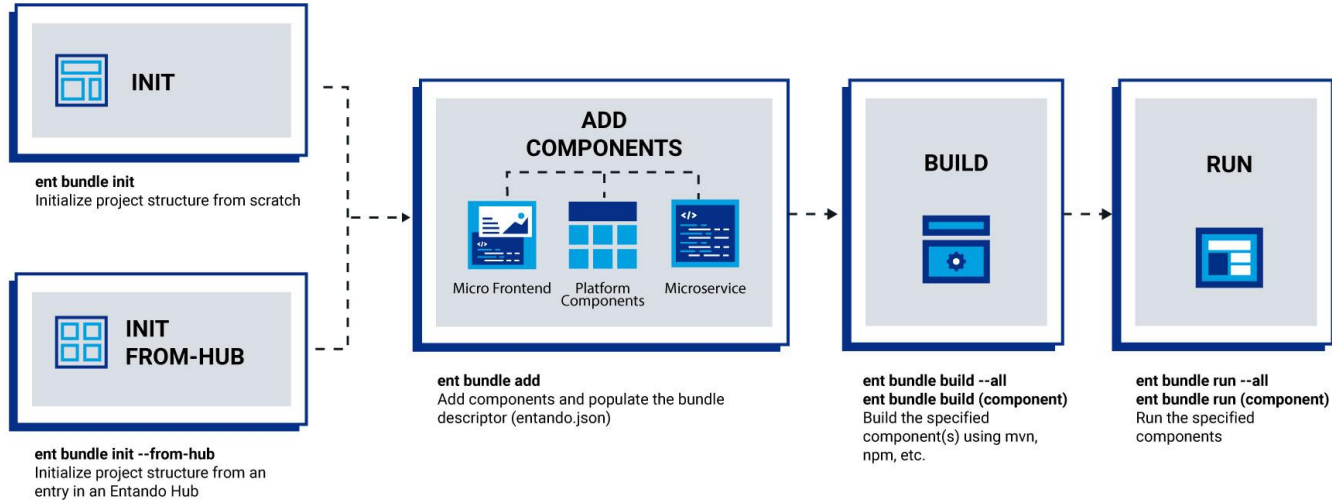
What's New?

- Bundles as templates
- Expanded CLI with bundle-specific tooling
- New docker-based bundle structure
- Decoupled MFE → MS wiring via service discovery
- App Builder extensibility through Entando Platform Capabilities (EPC)
- (TBD) Strapi CMS PBC (7.0) and EPC (7.1)

More details: <https://developer.entando.com/v7.1/docs/releases/>

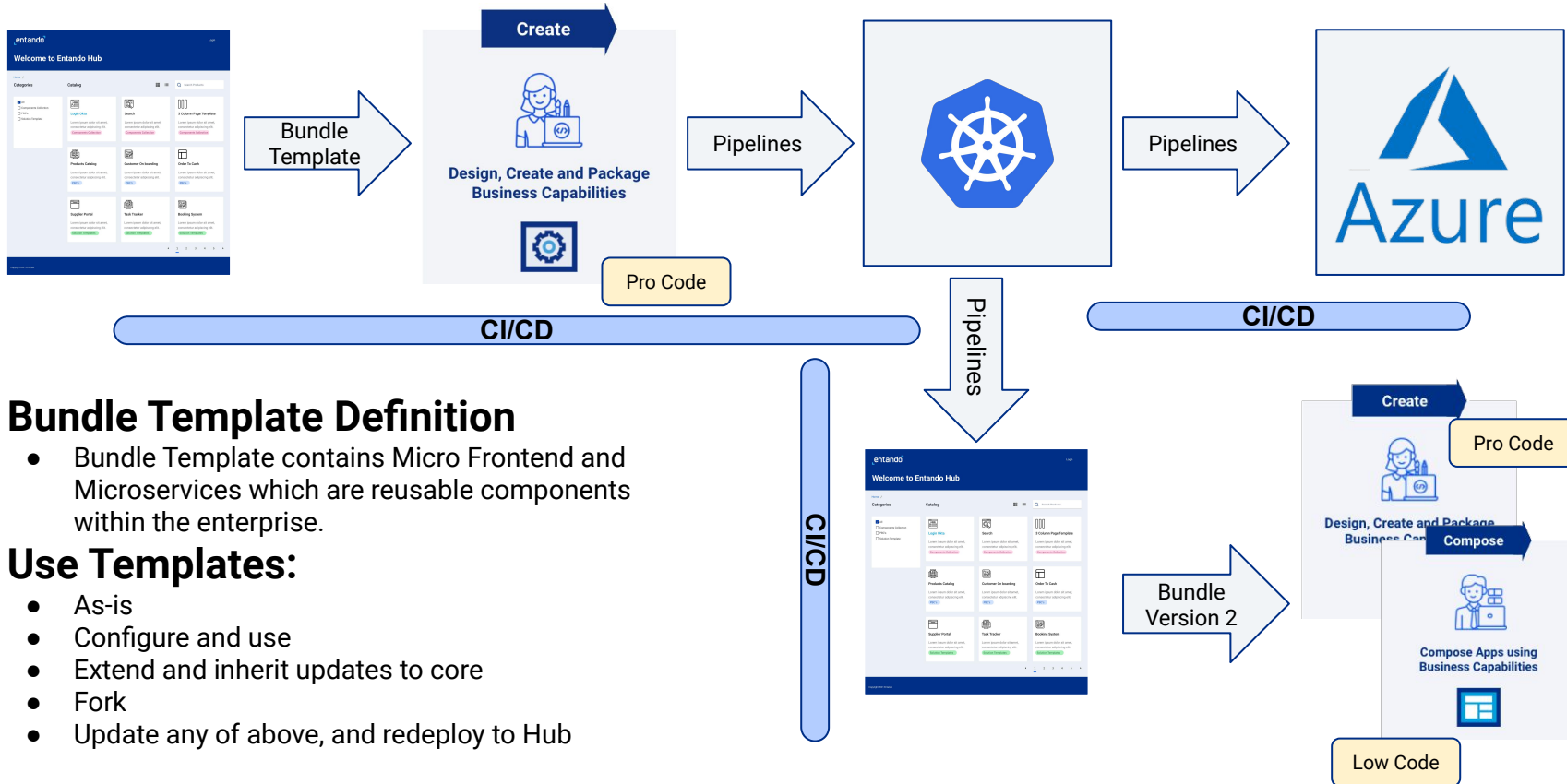


CREATE: Local Development Process



- Creator can use any Hub based template to start a new project (if source is provided by the curator)
- Template can contain any Entando components, e.g. microservice, micro frontend, pages
 - `ent bundle init --from-hub --hub-url=MY-HUB`
 - Supports both git-based (v1) and docker-based bundles (v5)
- <https://developer.entando.com/v7.1/docs/getting-started/ent-bundle.html#initialization>

CURATE: Pro Code Bundles



CREATE: New Bundle Project Structure

- Many improvements to ent CLI with better cross-platform developer experience
 - <https://developer.entando.com/v7.1/docs/getting-started/entando-cli.html>
- New ent cli commands for developing and publishing bundles
 - <https://developer.entando.com/v7.1/docs/getting-started/ent-bundle.html>
- Decoupled bundle project structure based on standard concepts (Microservices, Micro Frontends...)
 - <https://developer.entando.com/v7.1/docs/curate/bundle-comparison.html>
 - JHipster Blueprint decoupled from ent build structure

Create



Design, Create and Package
Business Capabilities



CREATE: New docker-based bundles

Git-based format (descriptorVersion=v1)

bundle/descriptor.yaml <- Top descriptor file, pointing to sub-descriptor files

ui/ <- the source for one or more micro frontends

src/ <- the source for one microservice

src/main/docker <- JHipster blueprint-only, for local development services, e.g. keycloak, postgresql

***.sh** <- build scripts copied into each project

Example: <https://github.com/entando-samples/e70-jhipster-conference>

Docker-based format (descriptorVersion=v5)

entando.json <- Top descriptor file, pointing to sub-descriptor files

microfrontends/ <- the source for one or more micro frontends

microservices/ <- the source for one or more microservices

svc/ <- (optional) docker-compose files to assist local development, e.g. keycloak, postgresql

Build and run commands <- conventions via entando.json, can be customized

Example: <https://github.com/entando-samples/e71-jhipster-conference>

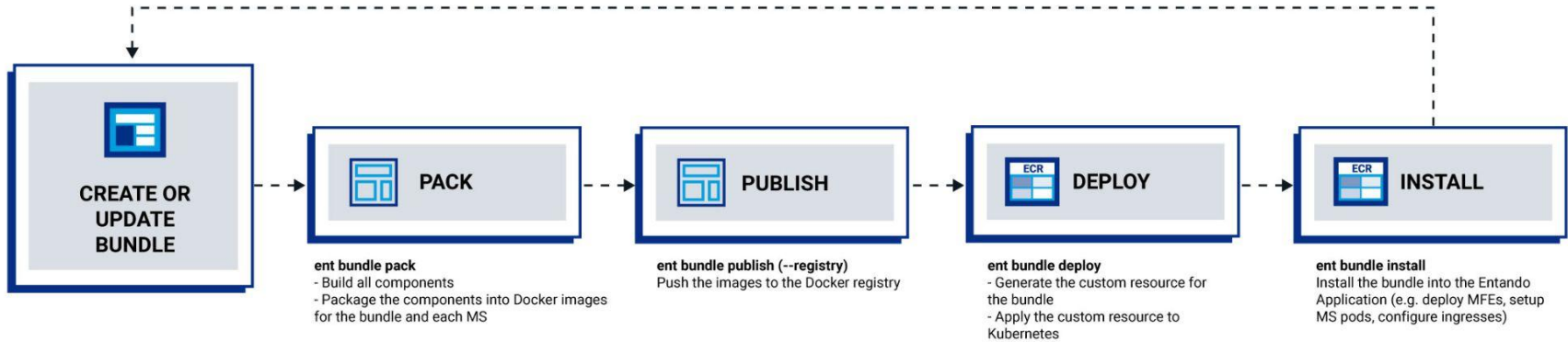
Create



Design, Create and Package
Business Capabilities



CREATE: Publishing Process



- Simplified publishing process
- Customizable run and build commands
- <https://developer.entando.com/v7.1/docs/curate/bundle-details.html#bundle-development-process>

COMPOSE: Extending the Entando App Builder with EPC

EPC: Entando Platform Capability

- Add additional low code capabilities
- Added as Functional Entando Platform Capabilities or as System Entando Platform Capabilities
- Leverage capabilities in your stack
- Extend to one or more headless capabilities
- EPCs can be app specific
- Functional EPC (Headless) examples
 - WCMS (e.g., Strapi)
 - API Management (e.g., Apiman)
 - Workflow (e.g., jBPM)
 - Rules Mgmt (e.g., Drools)
 - K8s Namespace Monitoring
 - AI/ML (e.g., Azure Open AI)
- <https://developer.entando.com/v7.1/tutorials/creating/mfe/epc.html>

Entando App Builder

The image displays the Entando App Builder interface. The top section shows the 'Designer' view of a page layout with various widgets like 'Brand Logo', 'navibar', 'Seed Login buttons', and 'empty space'. Below the designer, a list of 'Entando Platform Capabilities (EPCs) added from Hub' is shown, including jBPM, STRAPI.IO, and AZURE AI. The bottom right corner shows a 'Welcome to Entando Hub' screen with a grid of available capabilities.

Entando Platform Capabilities (EPCs) added from Hub



Entando Catalog Architecture



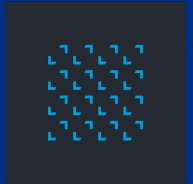
Breaking Changes

- Entando Component Repository re-labeled Local Hub in the App Builder UI
- docker-based bundles
 - Only available for Entando 7.1+
 - git-based bundles are fully forward compatible to 7.1
 - *ent prj* and git-based bundles are deprecated with 7.1
 - Docs and tutorials are shifting to the new format
 - bundle/plugin/component identifiers change when moving to docker-based
- config MFEs (even in git-based bundles) need to be Javascript modules (*type="module"*)
 - <https://developer.entando.com/v7.1/docs/releases/#breaking-changes>
- K8s 1.24 support coming soon
 - See [the blog](#) for announcements

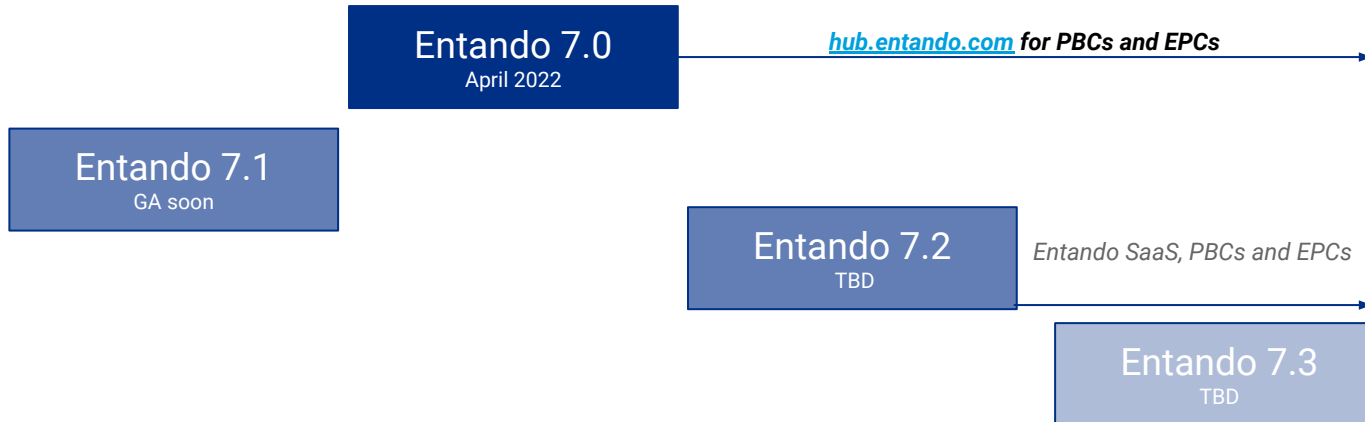
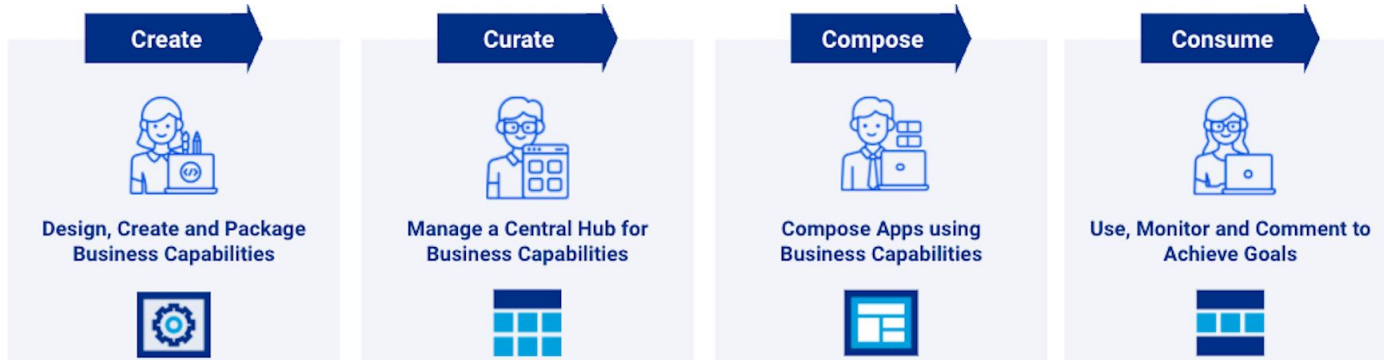




What's Next?



Product Roadmap Themes

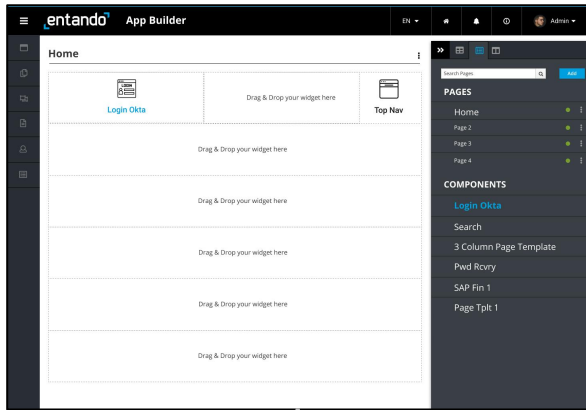


Compose Applications

By using PBCs from Multiple Hubs

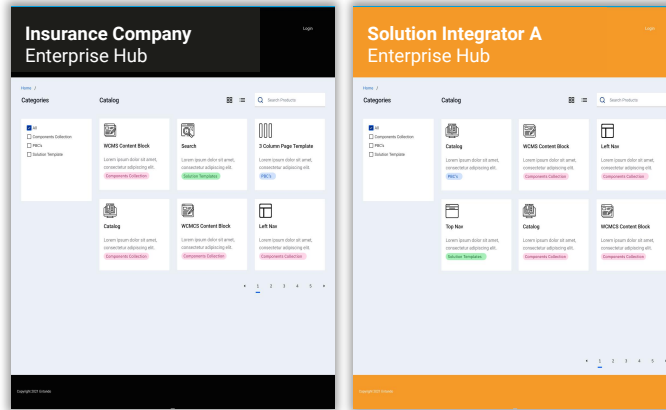
App Builder (with a Local Hub)

Included in the AppBuilder. Used to CREATE and compose applications from prebuilt components. Use components and PBCs as-is, configure, extend, or fork.



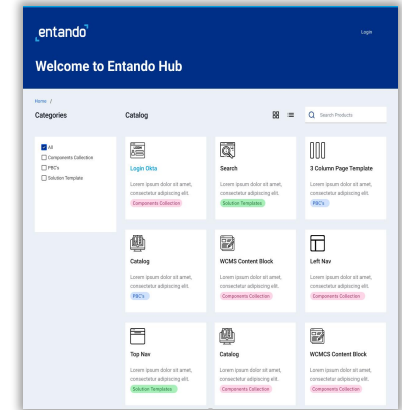
Enterprise Hubs

Developed and curated by either enterprises or their SI partners. Used to curate IP / PBCs / components and to control governance.



Entando Cloud Hub

Repository of public and private components and PBCs.



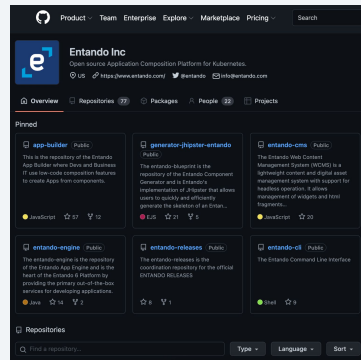
A single Entando Application Builder can leverage multiple Entando Hubs to build one or more applications



Product Vision

2023/4

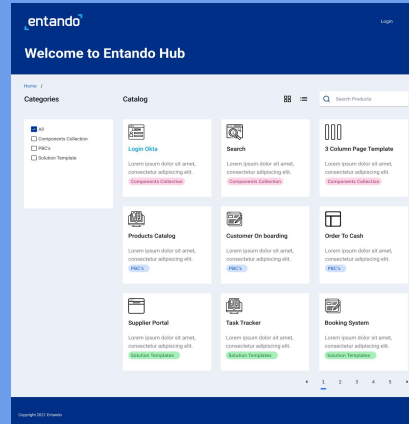
2021



Entando Platform

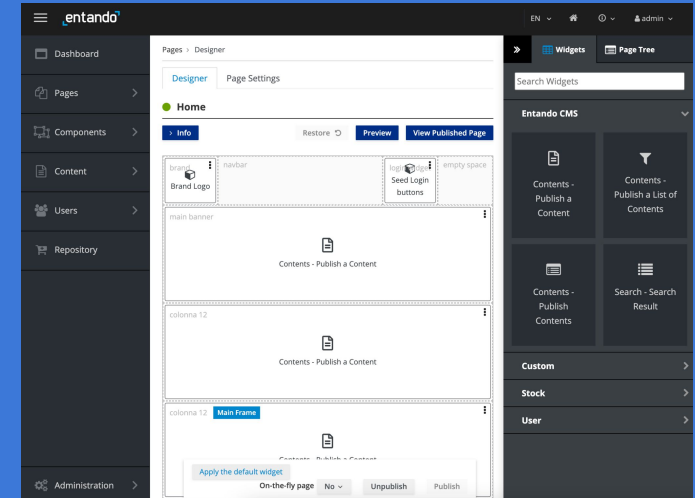
- Platform Subs
- Services
- Platform Training

2022



Entando Cloud Hub

- PBCs / Solutions
- PBC Dev Services
- SI Hub Support



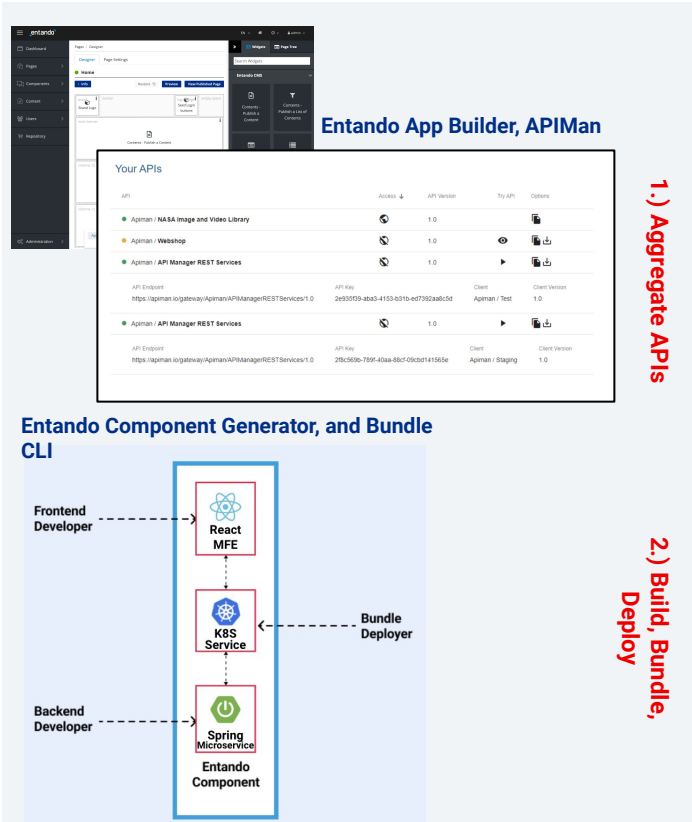
Entando Cloud Platform

- PaaS Subs
- Services
- SI PaaS Support

API Management

API Aggregation

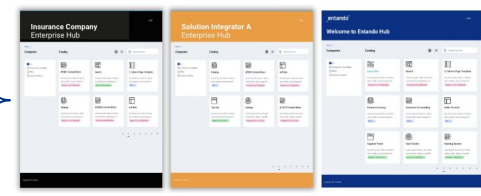
- Unify enterprise and 3rd party APIs with [Apiman](#)
- Assemble Frontend and Backend Code together into bundle



1.) Aggregate APIs



2.) Build, Bundle, Deploy




Q&A


 [linkedin.com/company/entando](https://www.linkedin.com/company/entando)

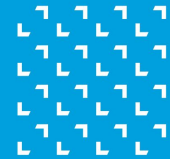
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