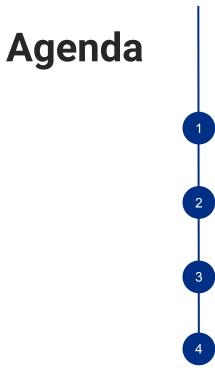


Entando 7.1 Partner Briefing

October 18, 2022





The Landscape

What's New in 7.1

What's Next

Q&A

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The Landscape





The future: Composable Applications

"By 2023, organizations that have adopted a <u>composable approach</u> will **outpace competition by 80%** in the speed of new feature implementation."

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

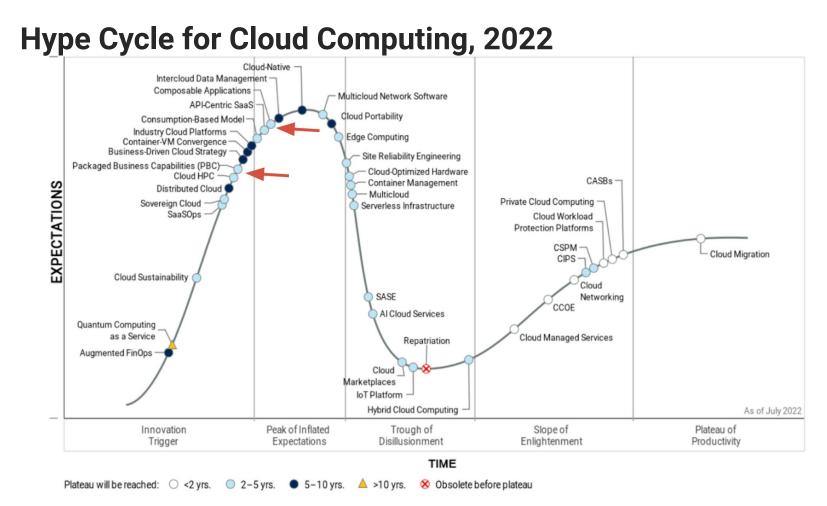
"By 2024, 70% of large and medium organizations will **include composability** in their approval criteria for new application plans."

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

"By 2026 integrated application composition platform products will emerge and dominate at <u>least 65%</u> of new LOB application initiatives."

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

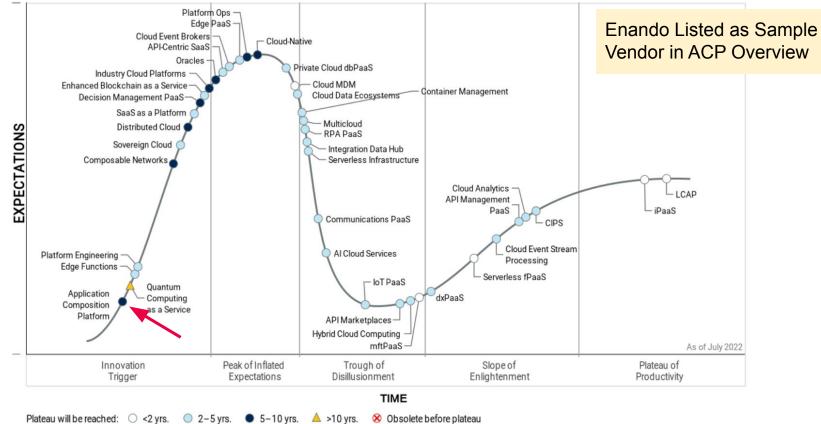




Source: Gartner Hype Cycle for Cloud Computing, 2022 Published 19 July 2022 - ID G00768727

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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

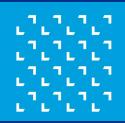
Outsystems

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

entando⁷

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:

a prepopulated catalog of composable, packaged, software components;
 creation and cataloging of new packaged software components through custom development and importing existing assets;
 democratized development and deployment of applications, assembled in part from the cataloged packaged components;
 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

central hub.

Developers use the

Component Generator and

CLI to build, package and

deploy components to the

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

Use Applications to Achieve Business Goals



Composers

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



Consumers

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

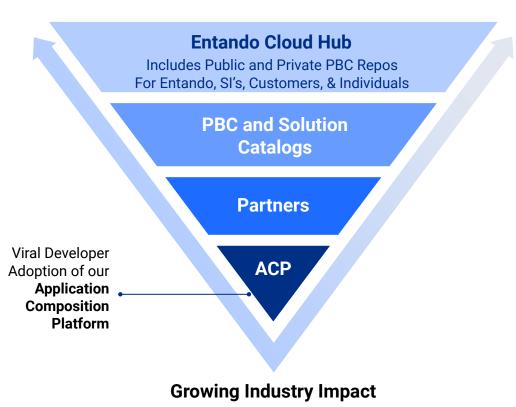


What's New in Entando 7.1?





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

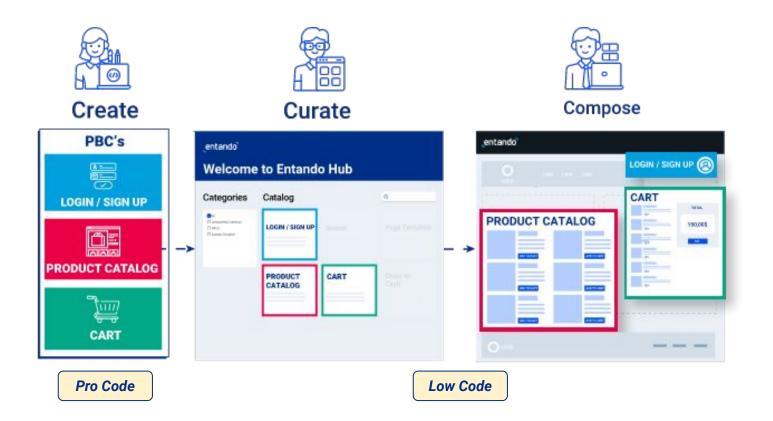
Our Commitment to Our Enterprise Customer

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

Product Roadmap Themes



Development Lifecycle by Persona



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What's New?

- Bundles as templates
- Expanded CLI with bundle-specific tooling
- New docker-based bundle structure
- Decoupled MFE \rightarrow 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: <u>https://developer.entando.com/v7.1/docs/releases/</u>



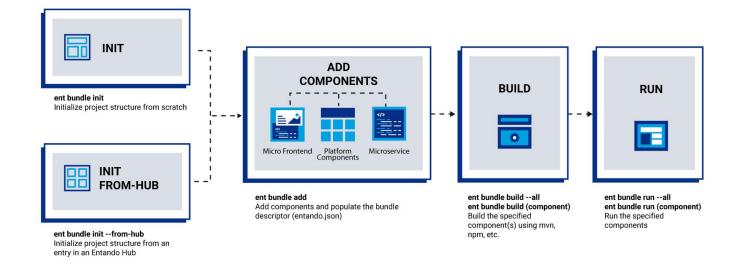
Design, Create and Package Business Capabilities





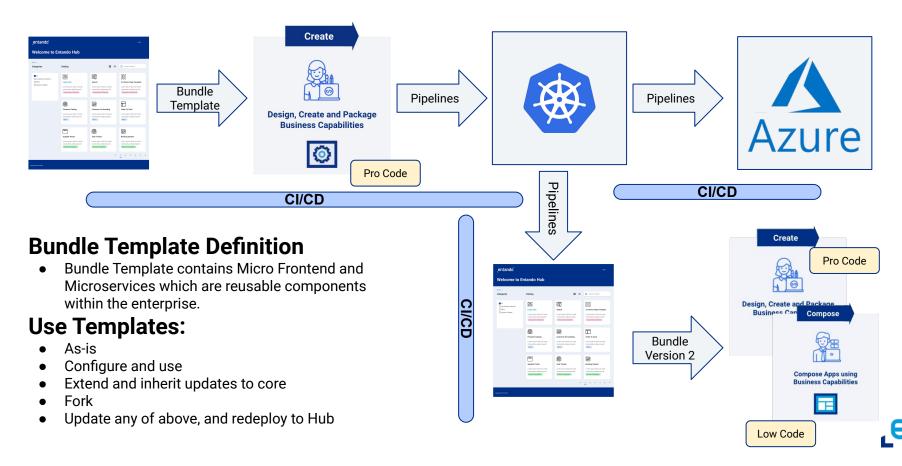
Create

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



Design, Create and Package Business Capabilities





Create

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</pre>

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

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

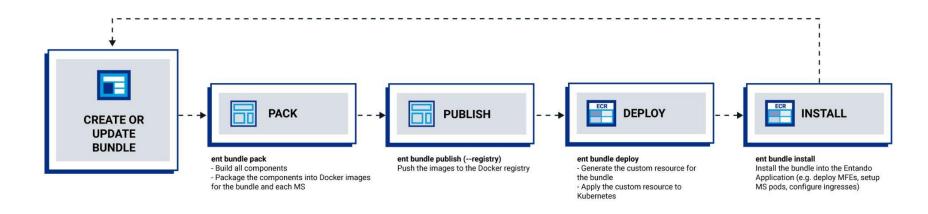
Example: <u>https://github.com/entando-samples/e71-jhipster-conference</u>



Design, Create and Package Business Capabilities



CREATE: Publishing Process



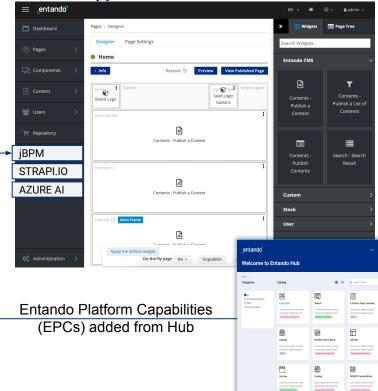
- Simplified publishing process
- Customizable run and build commands
- <u>https://developer.entando.com/v7.1/docs/curate/bundle-details.html#bundle-development-process</u>

COMPOSE: Extending the Entando App Builder with EPC

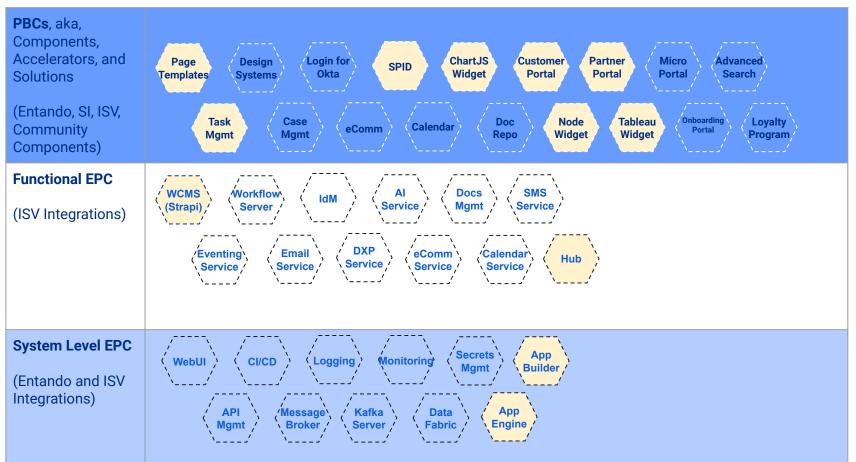
EPC: Entando Platform Capability

- Add additional low code capabilities
- Added as <u>Functional</u> Entando Platform Capabilities or as <u>System</u> 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)
- <u>https://developer.entando.com/v7.1/tutorials/crea</u> te/mfe/epc.html

Entando App Builder



Entando Catalog Architecture



6

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")
 - <u>https://developer.entando.com/v7.1/docs/releases/#breaking-changes</u>
- K8s 1.24 support coming soon
 - See <u>the blog</u> for announcements



What's Next?





Product Roadmap Themes



Compose Applications By using PBCs from <u>Multiple Hubs</u>

App Builder (with a Local Hub)

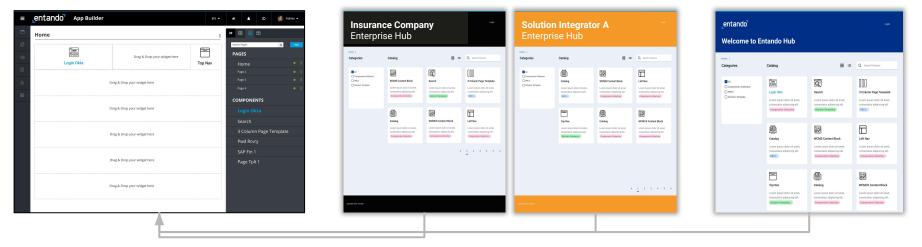
Included in the AppBuilder. Used to CREATE and compose applications from prebuilt components. Use components and PBCs as-is, configure, extend, or fork.

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

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Entando Platform

- Platform Subs
- Services
- Platform Training

Entando <u>Cloud Hub</u>

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

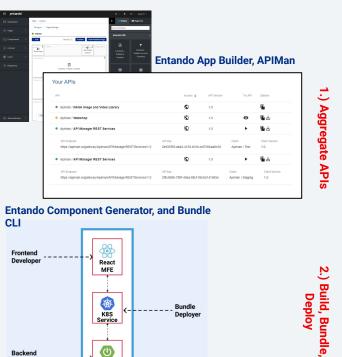
Entando Cloud Platform

- 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



Spring Microservice Entando Component

Backend Developer

ELIGIBLE Health Insurance Billing	Clearbit Marketing Data Enrichment	👌 algolia Search	Employment Data	pwinty Image Printing	
C alloy Fraud Protection	Lob Address Verification	Contentful Content Management	elasticpath eCommerce	Verifiable Healthcare Prescreening	
MessageBird Messaging	TERRA Fitness	Checkr Background Checks	ReadyCloud Product Returns	check Payroll	
api.video	Media Management	Banking Data	Shipping	boost Insurance	
computer Vision	stripe Payments	©evervault Privacy	E *******	Duffel Travel	





Q&A

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