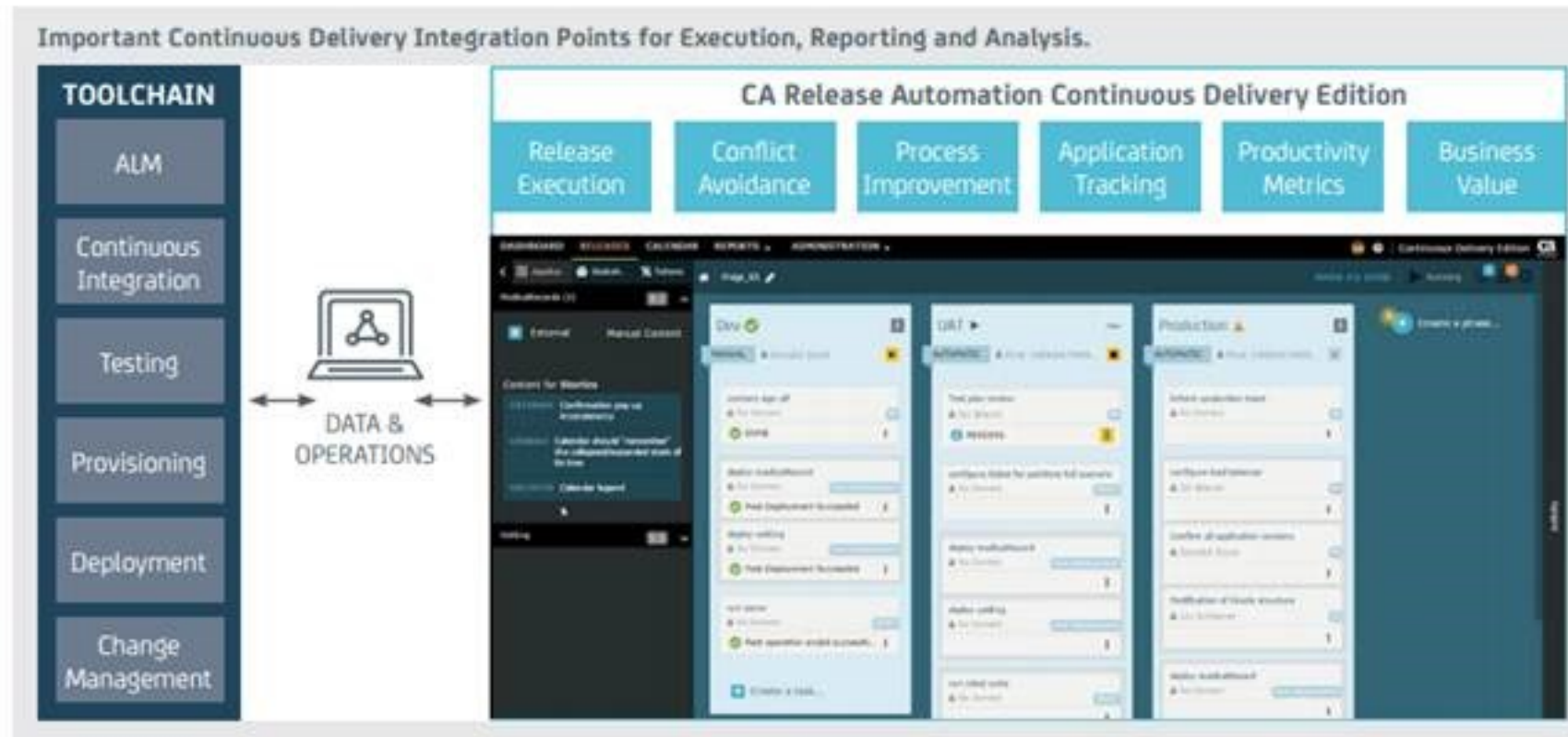# Optimize and Manage Release Pipelines with CA Release Automation

CA Release Automation includes two distinct building blocks that work together to ignite and advance an organization's continuous delivery practices. The deployment engine automates and standardizes the application release process from development through production—stabilizing releases, reducing errors and improving deployment time. As application delivery becomes more streamlined and risk-free through automation, additional challenges emerge as the velocity, volume and complexity of multi-team, composite applications grow. The advanced CA Release Automation Continuous Delivery Edition offers a single control point for overarching planning, execution and optimization of multiple releases through orchestrating the end-to-end continuous delivery toolchain, including ALM tool integration. CA Release Automation enables teams to improve release throughput, quality and efficiency while enforcing best practices, enhancing productivity and advancing DevOps team maturity.

Business challenges

Continuous delivery is a journey and application release automation (ARA) is its lynchpin. Teams evolve from manual, scripted processes to more automated, standardized, efficient and agile processes across the enterprise. Companies start small, automating releases for a single project or team and then scale to apply continuous delivery practices to multiple, composite apps and teams enterprise-wide. Along the way, adopting and mastering the ARA tools and processes to advance and optimize continuous delivery is non-trivial. In particular, many enterprises struggle with:

- **Pressure to deliver more, faster:** Meeting customer and business demands means increasing the volume and velocity of releases and building an efficient feedback loop—impossible tasks when the release pipeline suffers from slow throughput.

- **Enterprise complexity:** With numerous tool and technology preferences across multiple teams—not to mention a wide array of environments and infrastructures—integrating everything is a juggling act.

- **Application downtime and errors:** Moving faster can result in mistakes or lead to quality degradation, especially when teams use manual or scripted processes.

Important Continuous Delivery Integration Points for Execution, Reporting and Analysis.

Key benefits/results

With the help of CA Release Automation, you'll be able to:

- Gain visibility and transparency from development to production
- Accelerate deployment times by up to 20x
- Improve quality and reduce release errors by up to 98%
- Efficiently release multi-app, multi-team, composite applications— avoiding conflicts and dynamically sharing resources
- Track and map delivered application features to business goals
- Improve release processes and team productivity through enhanced visibility and collaboration
- Identify bottlenecks and address problems in real time

Marquee benefits yielding over $5.0M per year in financial impact are detailed on the reverse side of this document in order to show examples of business value achievable with CA Release Automation

Key features

- Scalable enterprise solution that can handle complex, multi-tier distributed solutions across thousands of servers and multiple data centers.

- Open, scalable platform integrates easily with any continuous delivery toolchain for end-to-end visibility and orchestration of releases and content through the software development lifecycle (SDLC).

- Automated, model-driven deployment operations, configured with visual workflow engine, enable standard, reusable processes for improved efficiency and quality.

- Single control point for intricate release planning and execution comprises release scheduling, release criteria checking, dependency tracking and conflict resolution.

- Customizable release dashboard provides transparency, governance, auditability, reporting and analysis of releases in the continuous delivery pipeline—supporting a culture of collaboration and improvement.

For more information, please visit http://www.ca.com/us/products/ca-release-automation.html

ca technologies

Business Value Estimations for CA Release Automation

CA Release Automation business value can be quantified per a wide range of benefit scenarios for an illustrative organization with about $900M in annual revenue. A selection of these is listed below to show common areas measured.

Business Value Proposition	Business Value Enabler	Specific Measurement	Impact Range	Key Resources Affected [1]	Average Resource Value [2]	Projected Financial Impact / year [3]
Increase in Dev / Test / QA staff operational capacity	• Reduce application release effort • Quickly pinpoint root cause of release error • Rapidly develop a fix for release issue • Automate manual and script based release efforts • Creation of standard reusable deployment processes • Faster development through all phases of the software development lifecycle • Help reduce release of 'dirty' code into production	Cost reduction in Dev / Test / QA labor	2 - 3%	Dev / Test / QA FTEs	900	$2,475,000
Increase in Release Manager / Engineer staff operational effectiveness	• Manage increased volumes and frequency of releases • Deliver real-time actionable intelligence across the release pipeline • Orchestrate and automate end-to-end release pipeline • Plan and execute releases across multiple teams, apps and environments • Identify and honor release dependencies • Schedule and enforce release windows • Manage release priorities based on business impact	Cost reduction in Release Manager / Engineer staff activities	20 - 30%	Release Manager/ Engineer FTEs	30	$825,000
Reduction in remediation costs of release errors	• Automate manual and script based release efforts • Reduce mistakes introduced in pre-production or production • Easily rollback to prior version or restart deployment after error correction thereby improving MTTR	Cost reduction in release error remediation	20 - 30%	Release Operations FTEs	40	$1,100,000
Improved Time to Value for Revenue Generating Applications	• Reduce delays in deploying revenue generating applications • Provide complete end-to-end insight and control when prioritizing • Automation of release deployment and release criteria steps • Help meet business plan financial goals and objectives	Revenue enhancement stream from early release	2 - 4%	Revenue dollars influenced by a 90 day early release	22,192,000	$665,760

[1] The **Impact Ranges** shown above are estimations derived from the analysis of benchmark data which is a composite of data derived from industry analyst published information, interviews with subject matter experts and experiential data from prior projective analyses.

[2] The **Average Resource** column shows the calculated mid-point of resource values captured in reference business case and customer analyses by the CA ROI & Business Value Analytics Team.

[3] The **Projected Savings** calculations are based on the product of midpoints of the Impact and Average Resources to show a single representative potential savings value. The labor rates for all FTEs are an assumed blended rate of $55/hour for a 2,000 hour work year of 365 business operating days. We assume that developers influence 10% of total revenue of approximately $900M.

Please note, the values expressed in this table are not a guarantee of achievable results and will vary depending upon your current infrastructure, people, and processes as well as the appropriate, effective implementation, adoption, and use of the CA solution.

This table shows some key benefits of CA Release Automation. Your CA representative can also share additional and more detailed ROI business case examples for each solution component by engaging the CA ROI & Business Value Analytics Team. This team offers complimentary help to CA Technologies customers to develop and analyze a comprehensive set of assumptions and environment specific metrics in order to build customized projective business cases.