

# Adobe® ColdFusion® 10

## Feature improvement history



| Classes                        | Features   | ColdFusion 10  |               | ColdFusion 9  |               | ColdFusion 8  |               |               |
|--------------------------------|--|--|---------------|---------------|---------------|---------------|---------------|---------------|
|                                |  | Enterprise   | Standard      | Enterprise    | Standard      | Enterprise    | Standard      |               |
| Advanced Protocol support      | Gateway architecture                                 | Available  | Restricted    | Available     | Restricted    | Available     | Restricted    |               |
|                                | Data management service                              | Available  | Restricted    | Available     | Restricted    | Available     | Restricted    |               |
|                                | Data services messaging                              | Available  | Available     | Available     | Available     | Available     | Available     |               |
|                                | Enterprise IM gateways (Sametime and XMPP)           | Available  | Restricted    | Available     | Restricted    | Available     | Restricted    |               |
|                                | Asynchronous CFML gateway                            | Available  | Restricted    | Available     | Restricted    | Available     | Restricted    |               |
|                                | SMS gateway  | Available  | Restricted    | Available     | Restricted    | Available     | Restricted    |               |
|                                | JMS gateway  | Available  | Restricted    | Available     | Restricted    | Available     | Restricted    |               |
|                                | TCP/IP socket gateway                                | Available  | Restricted    | Available     | Restricted    | Available     | Restricted    |               |
|                                | Directory watcher gateway                            | Available  | Restricted    | Available     | Restricted    | Available     | Restricted    |               |
| Application Development        | Object relational mapping (ORM)                      | Enhanced   | Enhanced      | Available     | Available     | Not Available | Not Available |               |
|                                | ORM text search                                      | New  | Not Available | Not Available | Not Available | Not Available | Not Available |               |
|                                | Advanced caching (ehcache)                           | Enhanced   | Enhanced      | Available     | Available     | Not Available | Not Available |               |
|                                | Ajax user interface component                        | Available  | Available     | Enhanced      | Enhanced      | Available     | Available     |               |
|                                | Ajax framework                                       | Available  | Available     | Available     | Available     | Available     | Available     |               |
|                                | Image manipulation                                   | Available  | Available     | Available     | Available     | Available     | Available     |               |
|                                | RSS/Atom feed creation and consumption               | Available  | Available     | Available     | Available     | Available     | Available     |               |
|                                | ZIP and JAR archive file manipulation                | Available  | Available     | Available     | Available     | Available     | Available     |               |
|                                | Database introspection                               | Available  | Available     | Available     | Available     | Available     | Available     |               |
|                                | Custom server side chart styles                      | Available  | Available     | Available     | Available     | Available     | Available     |               |
|                                | Server side charting and graphing                    | Available  | Available     | Available     | Available     | Available     | Available     |               |
|                                | ColdFusion components (CFCs)                         | Enhanced   | Enhanced      | Enhanced      | Enhanced      | Available     | Available     |               |
|                                | XML support  | Available  | Available     | Available     | Available     | Available     | Available     |               |
|                                | XPath support  | New  | New           | Not Available | Not Available | Not Available | Not Available |               |
|                                | Web services (SOAP)                                  | Enhanced   | Enhanced      | Available     | Available     | Available     | Available     |               |
|                                | Built-in support for REST                            | New  | New           | Not Available | Not Available | Not Available | Not Available |               |
|                                | File manipulation                                    | Available  | Available     | Available     | Available     | Available     | Available     |               |
|                                | .NET assembly support (DLL)                          | Available  | Available     | Available     | Available     | Available     | Available     |               |
|                                | Java, servlet, and EJB connectivity                  | Available  | Available     | Available     | Available     | Available     | Available     |               |
|                                | JDBC and ODBC  | Available  | Available     | Available     | Available     | Available     | Available     |               |
|                                | FTP/SFTP servers                                     | Available  | Available     | Available     | Available     | Available     | Available     |               |
|                                | Virtual file systems (RAM)                           | Enhanced   | Enhanced      | Available     | Available     | Not Available | Not Available |               |
|                                | Virtual file systems (ZIP, JAR, FTP, SFTP)           | New  | New           | Not Available | Not Available | Not Available | Not Available |               |
|                                | * Multi-threaded CFML - (CFTHREAD)                   | Available  | Restricted    | Available     | Restricted    | Available     | Restricted    |               |
|                                | Database client connection management                | New  | New           | Not Available | Not Available | Not Available | Not Available |               |
|                                | Support for additional database types                | New  | New           | Not Available | Not Available | Not Available | Not Available |               |
|                                | Database exception handling                          | Enhanced   | Enhanced      | Available     | Available     | Available     | Available     |               |
|                                | Failover support for database                        | New  | New           | Not Available | Not Available | Not Available | Not Available |               |
|                                | Revamped scheduler engine                            | New  | New           | Not Available | Not Available | Not Available | Not Available |               |
|                                | Grouping of scheduled tasks                          | New  | New           | Not Available | Not Available | Not Available | Not Available |               |
|                                | Mis-fire and exception handling of scheduled tasks   | New  | Not Available | Not Available | Not Available | Not Available | Not Available |               |
|                                | Scheduled task priority                              | New  | New           | Not Available | Not Available | Not Available | Not Available |               |
|                                | Listeners for scheduled tasks                        | New  | Not Available | Not Available | Not Available | Not Available | Not Available |               |
|                                | Cluster support for scheduled tasks                  | New  | Not Available | Not Available | Not Available | Not Available | Not Available |               |
|                                | Chaining of scheduled tasks                          | New  | Not Available | Not Available | Not Available | Not Available | Not Available |               |
|                                | Application specific scheduled tasks                 | New  | Not Available | Not Available | Not Available | Not Available | Not Available |               |
|                                | Support for closures                                 | New  | New           | Not Available | Not Available | Not Available | Not Available |               |
|                                | CFC Auto constructor                                 | New  | New           | Not Available | Not Available | Not Available | Not Available |               |
|                                | CFC method chaining                                  | New  | New           | Not Available | Not Available | Not Available | Not Available |               |
|                                | For-in support for queries and lists                 | New  | New           | Not Available | Not Available | Not Available | Not Available |               |
|                                | Hotfix installer                                     | New  | New           | Not Available | Not Available | Not Available | Not Available |               |
|                                | Instant notification for updates in CF Administrator | New  | New           | Not Available | Not Available | Not Available | Not Available |               |
|                                | CFScript support                                     | Enhanced   | Enhanced      | Enhanced      | Enhanced      | Available     | Available     |               |
|                                | Flex/ AIR Lazy loading                               | New  | New           | Not Available | Not Available | Not Available | Not Available |               |
|                                | Document Services                                    | MS Office 2010 PowerPoint file generation                                  | New           | Restricted    | Not Available | Not Available | Not Available | Not Available |
|                                |  | PDF file conversion from MS Office 2010 Word and MS Office 2010 PowerPoint | New           | Restricted    | Not Available | Not Available | Not Available | Not Available |
|                                |  | MS Office 2010 Excel support   | New           | Restricted    | Not Available | Not Available | Not Available | Not Available |
| PDF form processing            |  | Available  | Restricted    | Available     | Restricted    | Available     | Restricted    |               |
| PDF document manipulation      |  | Available  | Restricted    | Enhanced      | Restricted    | Available     | Restricted    |               |
| Server-side printing           |  | Available  | Restricted    | Available     | Restricted    | Available     | Restricted    |               |
| Online presentation generation |  | Available  | Restricted    | Enhanced      | Restricted    | Available     | Restricted    |               |
| PDF file generation from HTML  |  | Available  | Restricted    | Enhanced      | Restricted    | Available     | Restricted    |               |
| Structured reporting           |  | Available  | Restricted    | Enhanced      | Restricted    | Available     | Restricted    |               |
| Enterprise infrastructure      | 64-bit support                                       | Available  | Available     | Available     | Available     | Available     | Not Available |               |
|                                | Administrative user and role management              | Available  | Not Available | Available     | Not Available | Available     | Not Available |               |
|                                | Request limit management                             | Available  | Not Available | Available     | Not Available | Available     | Not Available |               |
|                                | ** Operating system virtualization support           | Available  | Not Available | Available     | Not Available | Available     | Not Available |               |

Feature improvement history *continued*

| Classes   | Features   | ColdFusion 10                                 |               | ColdFusion 9  |               | ColdFusion 8  |               |
|---|--|---|---------------|---------------|---------------|---------------|---------------|
|   |  | Enterprise                                    | Standard      | Enterprise    | Standard      | Enterprise    | Standard      |
|   | High-scalability email engine                                      | Available                                     | Not Available | Available     | Not Available | Available     | Not Available |
|   | Web-based multi-instance manager                                   | Enhanced                                      | Not Available | Available     | Not Available | Available     | Not Available |
|   | Web-based cluster manager  | Available                                     | Not Available | Available     | Not Available | Available     | Not Available |
|   | JEE package deployment (EAR/WAR)                                   | Available                                     | Not Available | Available     | Not Available | Available     | Not Available |
|   | Multiple server instances  | Enhanced                                      | Not Available | Available     | Not Available | Available     | Not Available |
|   | Instance clustering  | Available                                     | Not Available | Available     | Not Available | Available     | Not Available |
|   | Enterprise database drivers  | Available                                     | Not Available | Available     | Not Available | Available     | Not Available |
|   | ColdFusion archiving and deployment (CAR)                          | Available                                     | Not Available | Available     | Not Available | Available     | Not Available |
| HTML5   | HTML5 charts   | New   | Not Available | Not Available | Not Available | Not Available | Not Available |
|   | Built-in HTML5 video player  | New   | New           | Not Available | Not Available | Not Available | Not Available |
|   | Fallback from HTML5 to Adobe Flash <sup>®</sup> and vice versa     | New   | New           | Not Available | Not Available | Not Available | Not Available |
|   | Skinning support for HTML5 video player                            | New   | New           | Not Available | Not Available | Not Available | Not Available |
|   | Support for events and JavaScript interface for HTML5 video player | New   | New           | Not Available | Not Available | Not Available | Not Available |
|   | Geo-location capability with CFMAP                                 | New   | New           | Not Available | Not Available | Not Available | Not Available |
|   | Support for HTML5 input types                                      | New   | New           | Not Available | Not Available | Not Available | Not Available |
|   | ** Support for web socket protocol on server                       | New   | Restricted    | Not Available | Not Available | Not Available | Not Available |
|   | ** Interface for publish and subscribe using web socket            | New   | Restricted    | Not Available | Not Available | Not Available | Not Available |
|   | Custom styles for HTML5 charts                                     | New   | Not Available | Not Available | Not Available | Not Available | Not Available |
|   | Integrated solutions   | Embedded Apache Solr full-text search engine  | Enhanced      | Enhanced      | Available     | Available     | Not Available |
| Support for dynamic custom fields for Solr                    |  | New   | New           | Not Available | Not Available | Not Available | Not Available |
| Data import handler for Solr                                  |  | New   | Not Available | Not Available | Not Available | Not Available | Not Available |
| Adobe LiveCycle <sup>®</sup> Data Services ES integration     |  | Available                                     | Available     | Available     | Available     | Available     | Available     |
| Eclipse <sup>™</sup> based debugging                          |  | Available                                     | Available     | Available     | Available     | Available     | Available     |
| Flash Remoting  |  | Available                                     | Available     | Enhanced      | Enhanced      | Available     | Available     |
| Adobe Dreamweaver <sup>®</sup> and Eclipse extensions         |  | Enhanced                                      | Enhanced      | Enhanced      | Enhanced      | Available     | Available     |
| User-defined functions  |  | Available                                     | Available     | Available     | Available     | Available     | Available     |
| Microsoft SharePoint web parts                                |  | Available                                     | Available     | Available     | Available     | Not Available | Not Available |
| Microsoft SharePoint single sign-on                           |  | Available                                     | Available     | Available     | Available     | Not Available | Not Available |
| Java <sup>™</sup> portal integration (JSR-168, JSR-286, WSRP) |  | Available                                     | Available     | Available     | Available     | Not Available | Not Available |
| Email servers (POP and IMAP)                                  |  | Available                                     | Available     | Available     | Available     | Not Available | Not Available |
| Support for Microsoft Exchange 2010                           |  | New   | New           | Not Available | Not Available | Not Available | Not Available |
| Microsoft Exchange Server integration                         |  | Enhanced                                      | Restricted    | Available     | Restricted    | Available     | Restricted    |
| Directory servers (Active Directory and LDAP)                 |  | Available                                     | Available     | Available     | Available     | Available     | Available     |
| Apache Tomcat integration                                     |  | New   | New           | Not Available | Not Available | Not Available | Not Available |
| Revamped Flash Video Player                                   |  | New   | New           | Not Available | Not Available | Not Available | Not Available |
| Bi-directional Java integration                               |  | New   | New           | Not Available | Not Available | Not Available | Not Available |
| Load Java classes from custom paths                           |  | New   | New           | Not Available | Not Available | Not Available | Not Available |
| Create Java dynamic proxies from CFCs                         |  | New   | New           | Not Available | Not Available | Not Available | Not Available |
| Invoke CFCs from Java classes                                 |  |   |               |               |               |               |               |
| Tight integration with CFBuilder                              |  | Enhanced                                      | Enhanced      | Available     | Available     | Not Available | Not Available |
| Security  |  | Windows NT <sup>™</sup> domain authentication | Available     | Available     | Available     | Available     | Available     |
|   | RSA FIPS 140-compliant strong cryptology                           | Available                                     | Not Available | Available     | Not Available | Available     | Not Available |
|   | Enterprise server security (sandboxing)                            | Available                                     | Not Available | Available     | Not Available | Available     | Not Available |
|   | Built-in functions to protect against XSS and CSRF                 | New   | New           | Not Available | Not Available | Not Available | Not Available |
|   | Login mechanism  | Enhanced                                      | Enhanced      | Available     | Available     | Available     | Available     |
| Server manager and monitor                                    | Session cookie management  | Enhanced                                      | Enhanced      | Available     | Available     | Available     | Available     |
|   | Desktop-based server manager                                       | Enhanced                                      | Not Available | Available     | Not Available | Not Available | Not Available |
|   | Web-based server administration                                    | Enhanced                                      | Enhanced      | Available     | Available     | Available     | Available     |
|   | Administrator API  | Enhanced                                      | Enhanced      | Available     | Available     | Available     | Available     |
|   | Compiled application deployment (sourceless)                       | Available                                     | Available     | Available     | Available     | Available     | Available     |
|   | Server monitoring dashboard  | Enhanced                                      | Enhanced      | Available     | Available     | Available     | Available     |
|   | Server monitoring API  | Enhanced                                      | Not Available | Available     | Not Available | Available     | Not Available |

\* CFTHREAD is limited to two additional spawned threads in Standard edition

\*\* Data can be pushed to no more than five clients on Standard, unlimited on Enterprise

— Restricted features in ColdFusion Standard Edition: Enterprise features run through the Enterprise Feature Router (EFR). These features run in the Standard edition. However, all features running through the EFR are limited to one shared simultaneous request