Communiqué 4

**Standardized Global Content Management**

Communiqué 4 - Global Content Management fully implementing the JCR (JSR 170) Content Repository Standard, managing digital business information, applications and processes through the web. Communiqué’s content-centric approach, standards compliance and innovative virtual repository architecture transforms entire global organizations into virtual enterprises, bringing together content from any system, regardless of location, language or platform.

**Designed for World’s Leading Enterprises**
- Enterprise Content Management, on a global scale
- Enables global brand management
- Ease-of-Use for global organizations

**Industry Leading Products & Platform**
- Integrated Products - comprehensively designed and built
- Integrated Platform - performance, reliability, security
- Integrated Standards - 100% J2EE, JSR 170, JSR 168

**Flexible Content Integration**
- Virtual Repository connects multiple enterprises
- Content from any source, regardless of location, format, language or platform
- Standardized connectors (JCR)
## Comprehensive Feature Set

- Complete JCR (JSR 170) repository functionality
- Componentized object architecture allows reusable application functionality and accelerated deployment.
- Designer and Template Wizard significantly increases web development productivity.
- Multi-Site Manager allows for easy control of any number of sub-sites through a flexible mechanism of content inheritance and monitoring of language coherence.
- Advanced desktop integration, allowing content to be authored and administered directly in desktop applications.
- Conditional, parallel and nested workflows, improving business processes.
- Communiqué projects can be packaged quickly and easily for “in place” distribution and upgrades.
- Repository resources are visually displayed as a site tree, web drives and folders, which allow easy access from desktop applications, such as Office, that support the WebDAV protocol.
- Platform independent spellcheck built into the CMS.
- Standard Java portlet API (JSR 168) allows integration with any compliant portlet.
- Cluster Manager reduces administration and maintenance effort for Communiqué clusters.
- JCR (JSR 170) Eclipse plug-in facilitates development with this third party IDE.

## Feature Descriptions

### Content Services

Communiqué Content Services provide a common, consistent way to interact with and present content. Through the JCR (JSR 170) API, content services transform data into manageable content. Content Services (including Versioning, Serialization, Search, Locking, and Observation) are completely independent from the applications leveraging them. These services are standard features of Communiqué’s JCR compliant repository, allowing consistent configuration and control over all content and interactions.

### Content Infrastructure

Communiqué uses the Java Content Repository Standard API (JCR) to process content. This gives an unprecedented degree of investment protection and flexibility. Using this innovative standard is an important step towards true content infrastructure.

### Standard Content Repository

Communiqué is shipped with Day’s CRX, a full implementation of the Java Content Repository Standard. Emanating from the specification lead, this repository is designed and built to deliver on the promise of a standardized content infrastructure.

### Global Brand Management

Through consistent separation of design and content, flexibility and security for global branding is achieved. Brand consistency can be ensured through sophisticated template technology. The Designer allows for WYSIWYG maintenance of Design worlds.

### Graphics Rendering

The Graphics Rendering engine allows authors to effortlessly edit and manipulate images with simple point and click functionality. It provides complete control over web site branding and storage requirements. Only one copy of original source images are stored, then rendered based on predetermined corporate design standards or specific page layout requirements.

### Globalization and Localization

Roll out enterprise web presence on a global scale. Communiqué’s full Unicode text capabilities allow publishing in various languages of all character sets. Communiqué allows for decentralized authoring and administration in several languages including English, French, Spanish, German, and simplified Chinese.
Add-ons

Virtual Repository
Through the Virtual Repository content is accessed quickly and efficiently, regardless of the systems where the content resides. This technology avoids redundancies, because content can be maintained in its system of origin. Heterogeneous data from various sources is provided through a consistent interface including the complete feature set of the JCR (JSR 170) standard.

Connectivity and Connectors
Communiqué Connection Services allow content to be accessed wherever it resides, delivered to wherever it needs to go, anywhere in the world. Content can be stored in, and retrieved from various physical data sources. Connectors that provide a JCR (JSR 170) compliant API for a number of systems allow a standard-based repository integration. Connectors are available for leading databases, enterprise applications, enterprise content management repositories, and open standards like JDBC and LDAP. Day and its integration partners have considerable experience in the development of custom connectors.

Advanced Content Management
Communiqué Advanced Content Management functionality enhances the productivity and efficiency of content providers and designers with a series of highly developed capabilities.

Forms
The Forms module supports creation, execution, validation against constraints, multi-language input, and selection of action. Forms are fully configurable, customizable and extensible, and can be attached to workflows for full control over content.

Document Importer
Imports RTF documents. The Document Importer creates page hierarchies from the RTF format information and fills the pages with document content.

WebDAV
A variety of tools can be used to interact with the content repository. Any tool that supports the WebDAV protocol, for example Office products, can be used to edit content.

Designer
Maintain designs directly through the browser in the same way content is edited. The Designer allows for a WYSIWYG adaptation of a component’s design.

Collaboration
Communiqué provides a number of unique collaboration capabilities in the base product, such as work-areas, information sharing and exchange, and workflow. The Collaboration Module enhances and extends the basic collaboration features with highly specialized communications instruments for Secure Chat, Forums, and Newsletters. Newsletter support includes the storage of newsletter subscriptions and subscriber information in an RDBMS, definition for generic mail settings, the logging of recipients, errors or whole mail conversation. Newsletter content is created and sent through the Communiqué Authoring Environment.

Portal Management
Portlet aware content management and personalization creates and maintains content portals.

Portal Manager
The Portal Manager runs JSR 168 compliant portlets within Communiqué. Through this standard Java API it is possible to integrate any standard-compliant portlet into a Communiqué environment and manage the portlets though the standard Communiqué user interface.

Personalization Library
The Personalization Library enables the personalization of content and functionality. Create user profiles with the capability to be updated dynamically. Create restricted areas with user specific information and display additional content throughout the site based on the preferences of the viewing user.

LDAP Authentication
Maintain users in an LDAP user directory. This allows the management of user information centrally in a directory server and enables this information to authenticate the user in Communiqué.

Single-Sign-On for LDAP
In conjunction with LDAP Authentication, this module allows Communiqué to be integrated in a single-sign-on environment based on an LDAP directory.

Cluster Manager
Communiqué is a highly scalable system. The Cluster Manager provides robust tools to reduce administration and maintenance efforts for operation. This includes tools for synchronization, automatic cluster integration and automatic cluster re-integration. (Note: This Module is currently only available for upgrades from Communiqué 3.5.x)

Commerce
Provides commerce capabilities such as “shopping cart”, “wish lists”, real-time pricing, processing and procurement, and cataloguing.

Multi-Site Manager
The Multi-Site Manager is used to maintain any number of sub-sites related to a master site. Dependencies such as “mandatory”, “auto create”, or “optional” content and content structure can be defined, maintained and controlled centrally.
Feature Descriptions

**Universal Content Indexing**
Content is most useful when it is readily accessible! Communiqué uses the JCR (JSR 170) repository functionality to provide a comprehensive search facility. It tags entire pages and individual segments of data – providing unmatched detail of digital assets. All content (including text in PDF and MS Office documents, and images, for example) is catalogued and immediately searchable.

**Communiqué Development Environment**
The Communiqué Development Environment is the development interface for web developers to create templates for Communiqué projects. It is a complete content unification platform. Consisting of a development environment and a development server, all the tools necessary for efficient global site creation and maintenance, application development and true business-to-business and integration are included. It is fully integrated in the Communiqué Content Management System, features an internal browser and all necessary debuggers, including the Communiqué JSP Debugger.

**WCM Library**
The Web Content Management Library contains the main elements for web development. These include Workflow, User Administration, Meta-Data Management, Digital Rights Management, and Content Lifecycle Management. The Library is part of the base package of any Communiqué installation.

**Open Development Platform**
An integrated open-standard development platform allows Communiqué to work with and host other Web applications without the addition of a Web application server. Additional applications or customization can even be created directly within Communiqué. Open standards and XML enable Communiqué to interface directly with business systems, CRM, and ERP software applications.

**Load Balancing**
Load balancing capabilities allow full exploitation of IT infrastructure’s capacity with cross-platform load balancing and with multi-level caching mechanisms. Load balancing functions are designed to provide optimal server usage in a Communiqué installation. The load balancer constantly checks remaining server capacities and distributes incoming requests on the fly. HTT load balancing is configurable and supports proxies and heterogeneous technology environments.

**Multi-Channel Output**
Communiqué’s standard publishing output is comprehensive. It supports HTML, WML (wireless), XML, PDA, SMS (short message service), and PDF output formats.

**Standards**
- Supported industry standards: XML, J2EE, JSP, Servlet, JCA, EJB, ECMA-Script, LDAP, WebDAV, and Unicode.
- JCR (JSR 170): Day delivers both content management applications running on any standard compliant repository, and java content repositories, fully implementing the JCR standard.
- Expert group member: JSR 207 - Process Definition for Java, and JSR223 – Scripting Pages in Java Web Applications. Day is also an active participant and implementer of JSR 168 – Portlet Specification.
- Communiqué is written in Java and is fully J2EE compliant. It will run as a Servlet inside its own Servlet container or inside J2EE application servers.
What’s New in Communiqué 4

Standards Compliance

• JSR 170 Compliance

Repository

• CRX
• ContentBus 170

User-Interface

• Word-Like Editor
• Improved Usability
• Servlet Engine Admin GUI

Global Site Management

• Improved Multi-Site Manager
• Hierarchy Based Cache Flushing
• WebDAV for Media Library

Features

• Metadata Support
• Authoring Environment
• VersionWarp
• Media Library
• Graphics Rendering
• Multi-Channel Output
• Load Balancing
• Multi-Layer Caching
• Developer IDE
• Globalization
• Localization

JSR 170

• Read/Write
• Import/Export
• Search (XPath and Query)
• Versioning
• Access Control
• Observation
• Locking

Optional Add-Ons

Application Modules
Advanced Content Management (including Forms, Document Importer, WebDAV, Designer), Portal Management (including JSR-168 Support, Personalization), Collaboration (including Chat, Forum, Newsletter)

Technical Performance Modules
LDAP Authentication, Single-Sign-On for LDAP (requires LDAP Authentication), Multi-Site Manager, Commerce Library, IBM MQ Series Transport Handler, Virtual Repository

Connectors (require Virtual Repository)
JSR-170 Connectors to Relational Databases, Documentum, Lotus Notes, Tamino, and many other systems

Possible System Configuration

Recommended configurations, included in standard maintenance, and optional configuration include (additional optional configurations on request):

Server Platforms
MS Windows
Sun Solaris
IBM AIX,
Linux
HP/UX

Java Runtime Version
v1.4.2, v1.5

Application Servers
BEA, IBM, Tomcat, Sun ONE, Oracle

(J2EE compliant)

Web Servers
MS IIS
IBM-httpd (Apache)
Apache
Sun

Databases
MS SQL, Oracle, IBM DB2, Tamino

Client Platforms
MS Windows, Linux, Macintosh

Browser Support
Internet Explorer 5.5
Internet Explorer 6.0
Firefox 1.0.x

Product Features: This document is an overview of Communiqué. The Software is delivered as described on http://docs.day.com.