

R-1 4.0.1 – Release Notes April 2008

RepliWeb's R-1 Deployment Platform is a cost effective, feature-rich platform for automated file replication and Web content & application deployment. The new R-1 release offers organizations a streamlined, easily manageable platform for Web and .Net/COM+ application deployment. This release expands R-1's IIS 6.0 Metabase replication capabilities to support replication of All Web Sites' Configurations, Global ISAPI Filters and site dependencies. Automated replication of COM+ Applications and .NET Global Assemblies is also supported.

R-1 Console's user experience has been significantly enhanced to enable viewing, browsing and filtering by job tags as well as providing advanced search capabilities.

R-1 4.0.1 also includes RepliWeb's new Large File Accelerator (LFA) which enables organizations to transfer multi-gigabyte files in significantly less time. Beta users have reported that LFA has performed 20% to 60% faster than other transport options with similar results achieved in Lab tests.

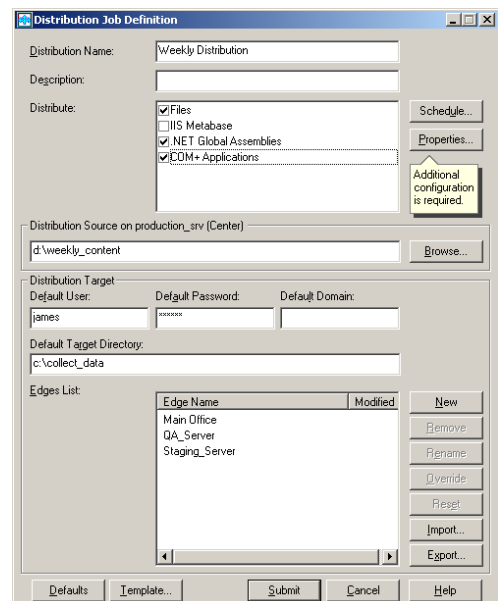
New Capabilities

A host of new capabilities make R-1 more powerful, more versatile and easier to manage than ever before.

Support for New Replication Types

This R-1 release introduces new replication types according to the content being replicated. R-1 now replicates content files and IIS 6.0 Metabase, COM+ Applications, .NET Assemblies, and any combination of them. Support for these additional content types improves R-1's capabilities as a unified enterprise Content File Transfer and Web & Application deployment platform.

.NET Global Assemblies Replication – This R-1 release supports distribution of .NET Global Assemblies residing in the GAC (Global Assembly Cache). This complements the available .NET Private Assemblies replication to provide full support for .NET Assemblies replication.



COM+ Applications Replication – This version provides the ability to replicate COM+ applications between Windows machines, using the same intuitive management tools available for other replication types.

New Replication Options

The new Transaction Deployment feature provides greater control over content publishing consistency and can be used together with the automatic rollback option to prevent publication of incomplete content.

Transactional Deployment – R-1's new Transactional Deployment feature provides content consistency over lengthy replication processes. Transactional Deployment enables content publishing on any number of servers only after the content has been completely transferred. Content publishing can be set to occur at a predefined future time and under different conditions and deployment groups. For instance, Transaction Deployment can be used to meet business requirements of actual deployment, providing the tools to trigger content publishing as soon as the business go-ahead is given.

Content can be automatically rolled back on all targets as required.

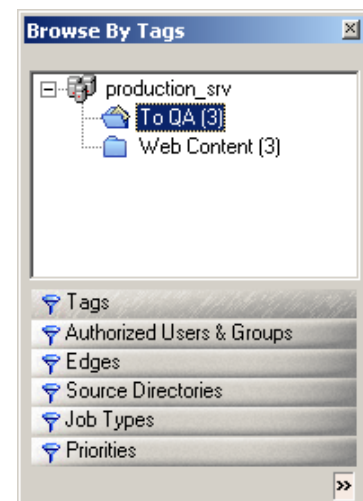
Enhanced Management

On-the-fly job modification, job tagging and search/browse capabilities as well as the new Backup and Restore function ease R-1 maintenance and administration.

Modifying Jobs – Continuing ease of management improvements, scheduled R-1 jobs may now be modified for the next instance without needing to abort the job beforehand.

Tagging – R-1 4.0.1 provides clear and intuitive job monitoring and management. Job tagging along with the new browsing capabilities improves job presentation and management especially when large numbers of jobs are involved such as departmental replication and deployment processes.

Browse By and Search Panes – The Console GUI has been enhanced to allow easy navigation between jobs according to various Job properties (including the new Tag property). This facilitates access to specific jobs when there are numerous jobs in the system.



Backup & Restore – This R-1 release supports Backup and Restore capabilities for R-1 Centers. The Backup process enables R-1 administrators to manage scheduled backups of all R-1 Center's definitions including configuration files, templates, containers, and more. Using the flexible Restore feature, administrators can choose whether to restore all data or only specific items.

New Technology

Large File Accelerator (LFA) – R-1 supports RepliWeb's new large file transfer engine, engineered for efficient transfers of very large files between sites. The LFA transport engine is designed to maximize speed and throughput of large files. LFA benefits businesses that need to transfer large files over non-optimized networks by significantly reducing transfer time. LFA's efficiency has been clearly demonstrated when used to transfer large files such as media files and virtual server backup files.

Feature Enhancements

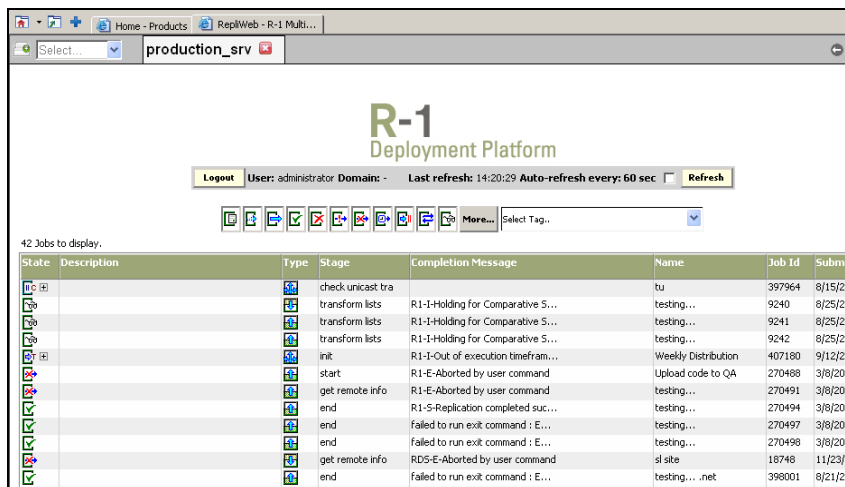
Metabase Replication – IIS 6.0 Metabase replication now allows replication of all Web sites configurations in a single replication job. Event-driven replication is now made available using R-1's continuous updates process.

In addition, Global ISAPI Filters can be deployed between Web sites. Replication of the actual ISAPI filter DLLs as well as their metabase references is also supported.

Automatic Rollback – Rollback has been enhanced to support automatic rollback when the replication process was aborted or ended in error. In addition, for Scheduled and Continuous Updates jobs, administrators can rollback to instances of the job, as well as to any given point-in-time.

Early Warning – R-1's notification capabilities now include an "Early Warning" option that enhances job continuity by enabling administrators to resolve any problems *before* the job exhausts its recovery attempts, thus allowing the job to continue uninterrupted. Notifications can be sent by email and/or by reporting to Event Viewer.

Multi-Center Web UI – R-1 Web Console can now connect to multiple R-1 Centers simultaneously using a tabbed user interface.



The screenshot shows the R-1 Deployment Platform web console interface. At the top, there is a navigation bar with the R-1 logo and the text "Deployment Platform". Below this, there is a user information bar showing "User: administrator Domain: -" and "Last refresh: 14:20:29 Auto-refresh every: 60 sec". A "Logout" button is also present. Below the user bar, there is a toolbar with various icons for job management and a "More..." dropdown menu. The main content area displays a table of replication jobs. The table has columns for State, Description, Type, Stage, Completion Message, Name, Job Id, and Submit. The table contains 12 rows of job data, including details such as "check unicast tra", "transform lists", "init", "start", "get remote info", "end", and "failed to run exit command".

State	Description	Type	Stage	Completion Message	Name	Job Id	Submit
	check unicast tra				tu	397964	8/15/200
	transform lists		R1-I-Holding for Comparative S...		testing...	9240	8/25/200
	transform lists		R1-I-Holding for Comparative S...		testing...	9241	8/25/200
	transform lists		R1-I-Holding for Comparative S...		testing...	9242	8/25/200
	init		R1-I-Out of execution timefram...		Weekly Distribution	407180	9/12/200
	start		R1-E-Aborted by user command		Upload code to QA	270488	3/8/2007
	get remote info		R1-E-Aborted by user command		testing...	270491	3/8/2007
	end		R1-S-Replication completed suc...		testing...	270494	3/8/2007
	end		Failed to run exit command : E...		testing...	270497	3/8/2007
	end		Failed to run exit command : E...		testing...	270498	3/8/2007
	get remote info		RDS-E-Aborted by user command		sl site	18748	11/23/20
	end		Failed to run exit command : E...		testing... .net	398001	8/21/200

Installation– The installation process was enhanced to allow the Web UI configuration. In addition, the Web UI folder was moved to avoid overriding of Web UI configuration during upgrades.

CLI – The R-1 Command Line Interface was enhanced to support ANSI characters in the qualifiers.

Supported Platforms – R-1 enables replication to/from these additional platforms: Solaris, HP-UX, AIX, Red Hat Linux 64 Bit, Red Hat Linux 7.0 and Red Hat Enterprise Linux 3.0. New to version 4.0.1, R-1 also supports Windows Vista as either Center or Edge in replication process. Note that the Web UI cannot be used while connecting to an R-1 Center installed on Windows Vista.

New Presentation – Repliweb Products now have new Application Icons and the Start Menu organization was improved for ease of navigation.

Pre Requisites

- **IIS Metabase Replication** - To replicate IIS Metabase using R-1, IIS 6.0 should be installed on both the Center and the Edge(s)
- **.NET Global Assembly Replication** - To replicate .NET Global Assemblies using R-1, .NET Framework 2.0 should be installed on both the Center and the Edge(s).
- **Multi-Center Web UI** – To use the R-1 4.0.1 Multi-Center Web UI, all connected Centers should be upgraded to use R-1 4.0.1.
- **Large Files Transfer Engine** – LFA functionality requires a License upgrade. Additionally, to achieve optimal transport speeds please consult RepliWeb Support on minimal hardware configurations.
- **Web & Application Deployment** – Replication of Metabase, .Net Assemblies and COM+ Applications is a licensed feature.

For any additional information, contact us at support.repliweb.com