

Dollar Universe Release Notes

Version 6.0

November 6, 2012

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1. Dollar Universe Version 6.0

1.1 Overview

Dollar Universe Application Server v6 provides tremendous improvements over DUAS v5.6 while keeping the compatibility with the older versions. The most significant changes brought by DUAS v6 are:

- A new architecture which incorporates the best of the centralized and the distributed approaches
- Improved security management
- Centralized administration
- Improved object lifecycle management
- Management of system resources
- Additional monitoring modes
- Advanced supervision features
- Additional new features

1.2 New Architecture and Administration

Dollar Universe v6 takes full advantage of the UniViewer architecture which is comprised of three levels:

- UniViewer Console
- UniViewer Management Server
- Dollar Universe v6 Application Server

Operators, designers and administrators use the UniViewer Console user interface to access Dollar Universe features. Each user profile is granted a set of access rights which define which features are available in the user interface.

UniViewer Management Server provides centralized features such as user authentication (can be connected to an external LDAP server), object deployment, node administration (no more configuration files) and synchronization. UniViewer Management Server can be configured in a cluster to improve its availability.

Dollar Universe Application Server v6 allows a distributed management of workload across several servers. While relying on UniViewer Management Server for its configuration, Dollar Universe v6 is completely autonomous when it comes to scheduling and running jobs.

Unlike its predecessor, the Dollar Universe Application Server kit is comprised of all the third party Managers such as the Dollar Universe Manager for SAP Solutions, the Dollar Universe Manager for Oracle Application and many others.

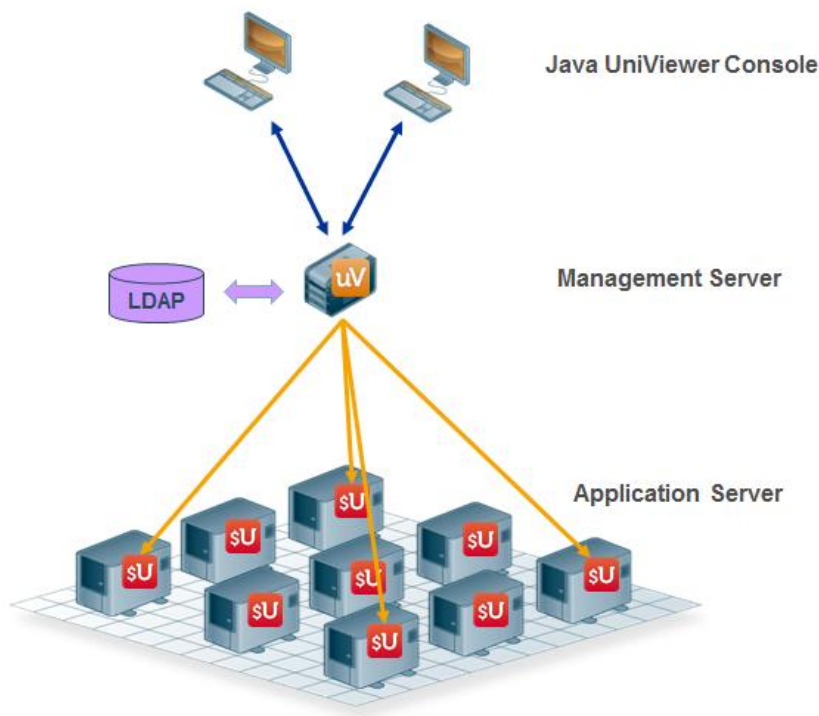


Figure 1: Dollar Universe v6 Architecture

1.2.1 Improved Security Management

1.2.1.1 Central Definition of Security

The configuration of the security settings is managed centrally by administrators through the UniViewer Console:

- Users
- Groups
- Roles
- Permissions
- Node views

All the security settings are stored on UniViewer Management Server and synchronized on the Dollar Universe Application Servers.

1.2.1.2 Role Based Access Control

Dollar Universe v6 security follows a Role-based access control model.

Permissions can be defined at a very fine grain level. For example, an administrator can define the permission to create tasks starting with A.

Roles are groups of permissions applied either on a node or a set of nodes.

Roles can be assigned to individual users or to groups of users.

This model has the benefit of simplifying the management of access control permissions while allowing for the management of exceptions.

1.2.1.3 Synchronization of Security Settings

UVMS synchronizes security data across all Dollar Universe v6 nodes. This process is triggered regularly by the Dollar Universe Applications Servers.

1.2.1.4 Secured Communications

All communications between the components of the UniViewer architecture can be secured using the SSL protocol. A lighter alternative is to secure only the communications between the UniViewer Console and the http gateway that are using https and to keep the other communications unsecured.

1.2.2 Standard Protocol

The HTTP UniViewer gateway enables the Console to communicate in http or https modes. This component is especially useful when firewalls must be crossed.

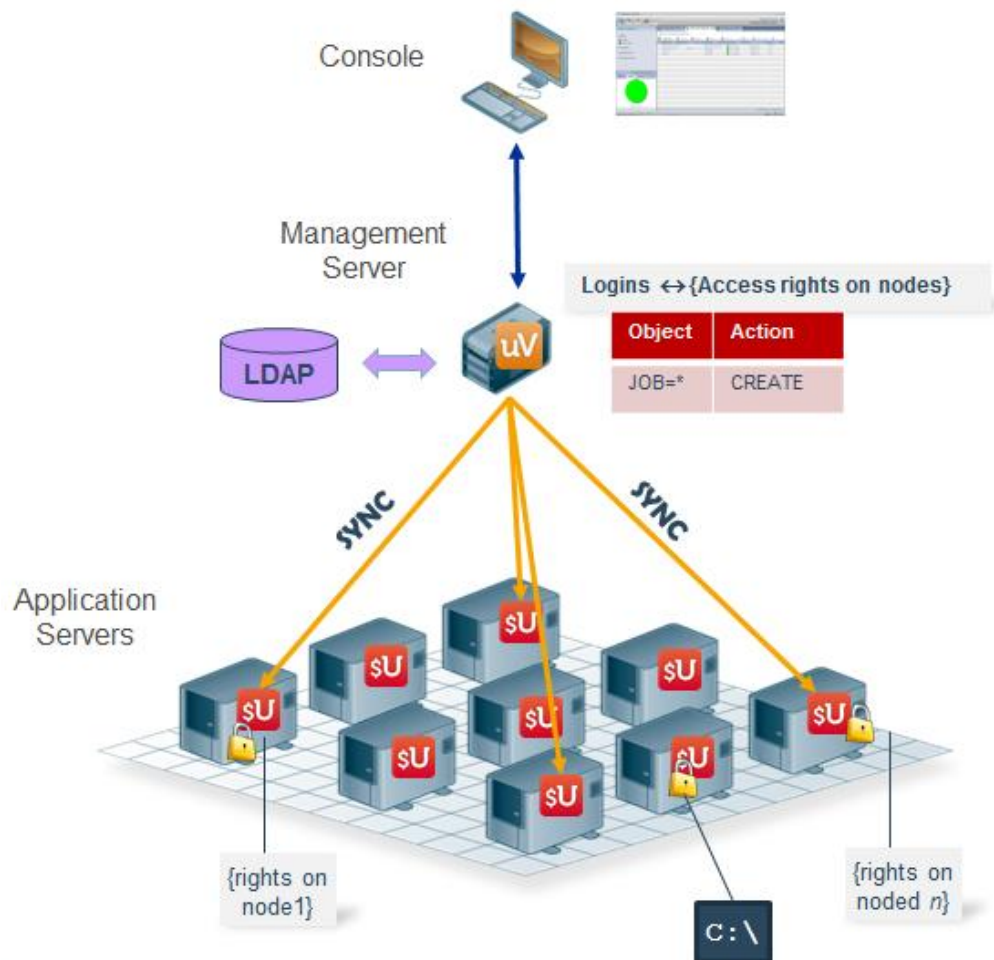


Figure 2: Dollar Universe v6 Security

1.2.3 Centralized Administration of Dollar Universe Application Server

1.2.3.1 Automatic Deployment of Dollar Universe Upgrades

The new auto-patch features allow administrators to update a farm of Dollar Universe Application Servers to a new version with minimal effort, using only the UniViewer Console.

First, the update package must be uploaded on the UniViewer Management Server.

Secondly, the administrator will select the Dollar Universe Application Servers that need to be upgraded and will launch the deployment.

1.2.3.2 Administration Packages

Administration packages, also known as “Node Settings Packages” are extremely useful to harmonize the node settings of a group of Dollar Universe Servers. In the first step, the user will define a package on UniViewer Management Server by selecting node settings from a Dollar Universe Server. Settings such as files, tables, variables can be added in the package. In the second step, the user can deploy the package on Dollar Universe nodes or Dollar Universe node views. All these operations are performed from the UniViewer Console.

1.2.3.3 Dollar Universe Application Server 6 Maintenance

Dollar Universe v6 improves all the maintenance operations of the application server and allows for them to be configured remotely from the UniViewer Console:

- Purge
- Reorganization of data files
- Backup
- Restoration
- Roll forward log files

1.2.3.4 Direct Access to Dollar Universe v6 Configuration from UniViewer Console

Unlike Dollar Universe v5, which requires that settings are configured by editing files directly on the machine, Dollar Universe v6 is fully configurable from UniViewer, including:

- Licenses
- TCP/IP ports
- Monitoring of Dollar Universe Application Servers and their engines
- Monitoring of the UniViewer Management Server
- Access to the audit trail
- Defining alerting rules

1.2.4 Integrated Components

Dollar Universe v6 fully integrates the DQM (Distributed Queue Management) module.

Dollar Universe v6 fully integrates the Dollar Universe Manager for File Transfer features (configuration, Uproc types).

Dollar Universe v6 Managers are delivered and installed during the Dollar Universe installation. Their activation and configuration are handled by UniViewer Console.

1.2.5 *Directory Structure*

DUAS can now be installed on a path containing the space character.

Files are grouped by type: binaries, data, logs; this means for instance that logs can be located just outside the Company.

1.2.6 *New Engines*

The number of services and processes has been greatly reduced compared to Dollar Universe v5.

On Windows, Dollar Universe v6 uses two services:

- IO (Input / Output: includes CAL, LAN, EXC, SUR, ALM and SYNC)
- EEP (External Event Processor: Management of all the physical resources)

1.3 *Design Features*

1.3.1 *Long Names*

All object names are stored on 64 characters.

1.3.2 *Variables*

Variables can be set at the node or at the Management Unit level to be used by Uprocs scripts when running on this node / Management Unit.

1.3.3 *New Type of Resource Dependencies*

Dollar Universe v6 jobs support new types of resources that can be used as pre-conditions for the execution of the job:

- Generic resource
- System resource

1.3.3.1 *Generic Resources*

Generic resources are helpful to define conditions based on the execution of a custom script. For example, a condition could be defined on the value of a record in a database.

1.3.3.2 *System Resources*

System resources allow for the creation of dependencies based on the state of the machine. System resources can use:

- CPU: "<", "=", ">" % of CPU
- RAM: "<", "=", ">" MB of memory
- Disk space in a folder: % or MB
- Using SP Monitor, any kind of system resource

1.3.4 *Uprocs*

- Sample Uprocs: the user can create its own samples or use the samples delivered by ORSYP; samples scripts can define variables that are automatically handled as Uproc variables.

- Time Control Management: the launcher can monitor the launch and execution durations of a Uproc and trigger the execution of a dedicated script on certain rules.
- Associated files list: files can be associated to the Uproc for its execution and can also be deployed with the Uproc.

1.3.5 Scheduling Rules

Scheduling rules in Dollar Universe v6 reuse all features of scheduling rules of Dollar Universe v5 and also include features provided by UniJob.

- Offset can be calculated by the number of calendar, working, closing days or holidays. Offset can also be set on unauthorized days in days of week, days of month or months of year.
- The user can simulate the calculated dates during the rule definition.

1.3.6 Tasks

Tasks are identified by a name. The Uproc/session and Management Unit are part of the description of the task.

The user can define exclusion rules and a time limit (beyond which all runs links with the task are killed).

The task schedule can be simulated during the task definition.

1.3.6.1 Import jobs

Dollar Universe v6 can import jobs from:

- Windows Task Scheduler (v1.0 and v2.0) on Windows
- Crontab on Linux/UNIX
- UniJob

Jobs are imported as scheduled tasks.

1.3.6.2 Specific tasks

Specific tasks as optional or provoked tasks within a session are linked to the main task in the task definition.

1.3.7 Object Lifecycle Management Improvements

Object management was considered a point of improvement for Dollar Universe v6.

With the new concept of object packages, Dollar Universe v6 allows for a real management of the object lifecycle on development and production environments.

It also simplifies greatly the management and the harmonization of objects on a Dollar Universe farm.

1.3.7.1 Object Packages

Object Packages are groups of Dollar Universe objects embedded in a container and stored on the UniViewer Management Server. Packages can be built and modified from UniViewer Console by selecting an object and selecting “Add to Package” or by using the Deployment Hub.

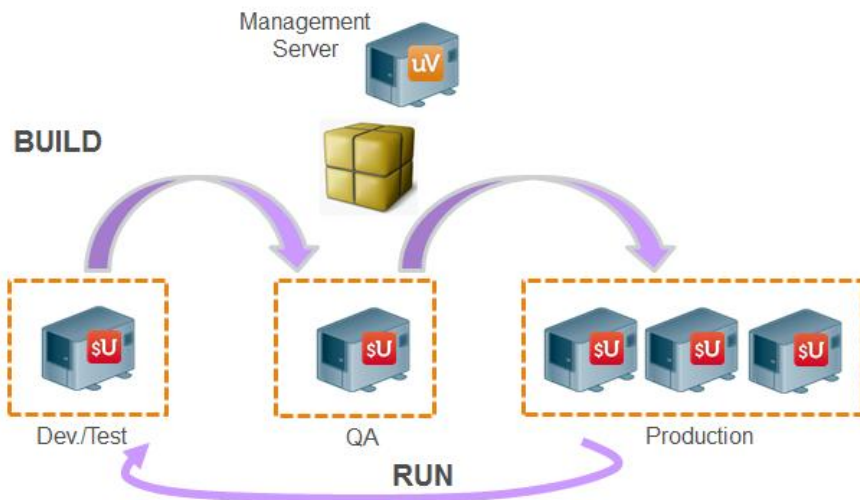


Figure 3: Package Deployment

Figure 3 illustrates how packages can be transferred from a development environment to a test environment, and eventually to the production environment. Packages allow for a real management of the object lifecycle on several environments.

1.3.7.2 Deployment Hub

The deployment hub is the user interface dedicated to the management of object packages and the distribution of objects on Dollar Universe nodes. In the deployment hub the user can:

- Select objects to distribute
- Build a package
- Distribute objects on nodes and Managements Units
- Deploy packages on nodes and Management Units

1.3.7.3 Synchronous Distribution of Objects between Dollar Universe

In Dollar Universe v6, the distribution of objects is done synchronously (immediately after the user clicks on “Send”) whereas it was asynchronous in Dollar Universe v5.

1.4 Operation Features

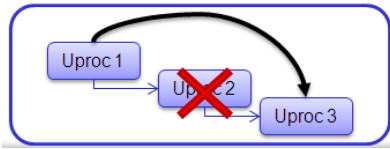
1.4.1 New Operation Features

1.4.1.1 Exceptions

Exceptions can be defined by operators to handle specific cases when the standard production plan must be altered.

- Hold
- Bypass conditions
- Skip (force OK)

- Jump



1.4.2 Advanced Job Run Status

The advanced job run status keeps track of special actions or statuses of a job run.

- Shifted by outage
- Note
- Acknowledged
- Skipped
- Bypassed
- Killed too long

...

1.4.2.1 Session Status

Dollar Universe v6 introduces the concept of a session status. This information allows for efficient monitoring at session level instead of requiring monitoring at Uproc level.

1.4.2.2 Forecast

The forecast feature has been extended to allow for a forecast on several nodes. In addition it is also possible to launch a forecast on jobs chains and production plans.

1.4.2.3 Runbooks

Runbooks can be associated with a variety of Dollar Universe objects. With this feature, it becomes possible to associate a runbook document with a Uproc or a session. The runbook can be consulted by the operator to view the details of a procedure or to review an incident.

1.4.2.4 Notes

Operators can keep track of actions by entering text notes on job runs.

1.4.3 Alerting Rules

The supervision of Dollar Universe Application Servers is greatly simplified by the centralization of supervision criteria on the UniViewer Management Server. Using the same synchronization mechanism employed for security data, alerting rules are retrieved by Dollar Universe Application servers on a regular basis.

Alerting rules can use new types of information such as:

- Job status
- Execution time (min, max, wait time)

Alerting rules can trigger:

- The execution of specific scripts

- A message sent to a supervision tool

1.4.3.1 Supported Supervision Solutions

Dollar Universe Application Server fully supports SNMP v2 and provides a new MIB.

In addition, it integrates out-of-the-box with HP Operations Manager.

1.4.4 *Other Features*

1.4.4.1 Compatibility

DUAS v6 is compatible with DUAS v5.6 and v5.3.3 for network batch operations (network conditioning and sessions).

1.4.4.2 Audit Trail

The audit trail is accessible from UniViewer Console.

The last action of each object is displayed when selecting the object.

About ORSYP

ORSYP is an IT Operations Management specialist that develops and markets innovative solutions that automate IT processes and optimize resource utilization. Headquartered in Boston, Hong Kong, and Paris, ORSYP has been chosen by over 1400 customers as their trusted partner for software, consulting and education since 1986.

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