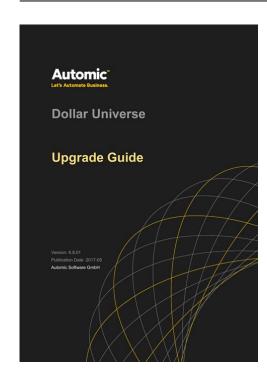# Dollar Universe Manual Pdf

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This file is not for customer update. Customized node settings are appended to the file values.xml located in the Companys data directory. Node settings are managed from the UniViewer Console. Refer to the UniViewer User Guide for a detailed description of node setting management. Loading of the logical environment is necessary before using Dollar Universe commands. A logical name can specify the location of a physical file, whereas the logical name in concealed mode is indistinguishable from the physical device name. A logical name in concealed mode can reference a root path, directory path or file path whereas a common logical name can only reference a physical device. The managers are installed by default but are not enabled. The Installer can propose a list of installed instances for upgrade or removal Company directory This is the top of the instances directory tree. It contains notably on Windows, UNIX and OpenVMS the unienv procedure for loading the logical environment. On Windows it also contains the DLLs. A specific subdirectory is created for each Manager installed. This directory contains the command definitions and syntax files used by the Dollar Universe command line interface. The data directory contains files that are not Area specific, i.e. they apply to the whole Company Company data, DQM batch queues and jobs files License file Resource Definitions Alerting Rules etc. Each Area subdirectory contains the same set of data files containing data specific to the Area Uprocs, Sessions, Tasks, Execution History etc. Scripts are named with the following internal format Where Unnnnnnnnn.vvv Unnnnnnnnn is the identifier associated with the Uproc The vvv extension corresponds to the Uproc version number. Refer to the UniViewer User Guide for details about user rights.After the job completes, these three spools are recopied into the execution log in the IFS directory. The original spools are not

Sharing binaries between multiple instances of the same Dollar Universe Application Server version has two advantages It saves disk resources It simplifies the update procedure It you wish to share the binaries between multiple instances then it is highly recommended that the shared binary directory be located outside of a standard instance directory tree. This simplifies removal of any one instance. The shared binary directory will only be removed if the.installer database indicates that the instance being removed is the last one using the binaries. Upgrading one instance will effectively upgrade all sharing instances; consequently all sharing instances must be completely shut down before engaging the upgrade procedure. On UNIX, the binaries installed on a shared disk can be shared recommended to facilitate the upgrade or not. On Windows, the binaries must be installed on a local disk. 15 Chapter 2 Introduction 15 On OpenVMS, the binaries and data must be installed on a shared disk. If the binaries arent installed on a shared disk On Windows and UNIX, the path of the bin directory must be the same for the two installations Windows Cluster Installation The Primary cluster node is installed on the active cluster node with the shared disk. Secondary cluster node installation no longer requires the shared disk to be switched from the active to the backup node. Only node settings and binaries are installed on the local disk of the secondary node. The data structure data, mgr and temp already having been installed on the shared disk in the Primary node installation. Secondary node installation does however require the values.xml file to be copied across from the primary to the secondary node values.xml contains definitions of the primary node installation. On Windows systems the binaries should NOT be installed on the shared disk.

Since there are at least two sets of binaries, any upgrade procedure should be run on primary and secondary nodes UNIX Cluster Installation The binaries can be installed with the data and logs on the switchable volume or on a local disk. The Primary cluster node is installed on the active cluster node with the shared disk. Only node settings are installed on the local disk of the secondary node; the data structure and binaries already having been installed on the shared disk in the Primary node installation. Secondary node installation does however require the values.xml file to be copied across from the primary to the secondary node. values.xml contains definitions of the primary node installation. If binaries are installed on the shared disk they can be shared by the members of the cluster; this configuration is recommended to facilitate the upgrade the upgrade procedure should be run only once for the cluster OpenVMS Cluster Installation On OpenVMS, a cluster configuration is composed of one instance of Dollar Universe that is started on one member of the cluster. The data, log files and binaries are installed on a shared disk. The cluster node is installed on the active member with the shared disk. Other members do not require any further installation; they share the data, logs and tools with the primary node. Cluster Configurations On OpenVMS, two types of clusters can be defined based either on the hostname or the cluster alias. A cluster configuration is based on the hostname when the Dollar Universe node name is the hostname of one of the machines in the cluster. For a failover, the hostname is switched using the command unims update host. A cluster configuration is based on the cluster alias when the Dollar Universe node name is associated with the cluster alias name. The failover is done using VMS commands.

In both configurations, Dollar Universe must be stopped before starting the failover and must be started on the new machine once the failover has completed. For a hostname cluster configuration, during a failover, all jobs that are running when Dollar Universe is stopped will have the status aborted when the failover completes. For a clustering solution based on the cluster alias, if jobs are running when a failover occurs, the job status displayed in Dollar Universe is the actual status. Batch Queues 16 16 Chapter 2 Introduction For job submission, the cluster environment on OpenVMS allows for Dollar Universe to be started on one cluster member, and to launch jobs on all other cluster members. In a cluster environment, jobs are launched directly from DQM on the

physical VMS queue of a cluster member. Environment The command line can be used locally on each cluster member after the environment is loaded located in the data folder on the shared disk Dollar Universe upgrade on cluster architecture The installation procedures and upgrade packages i.e. autopatch take care of the Dollar Universe upgrade on cluster architecture. Standard Upgrade If the user executes the classical upgrade procedure interactive, silent or command mode, upgrading the cluster s active node node connected to data is similar to a standard upgrade. The cluster is not switched to the node you want to upgrade. The procedure checks That it is a cluster type installation, primary or secondary this information is stored in the installation record on Windows or the installer file on UNIX. The data portion is absent absence of unienv files. In both cases, upgrading from an inferior version to the binary version installed is only authorized accompanied by a warning in interactive mode. This case can correspond to a secondary installation done on toolate a version and correct it.

Autopatch Upgrade If the user executes an upgrade package autopatch in UVC, upgrading the cluster s active node node connected to data is similar to a standard upgrade. The package and its associated procedure are saved in a data directory. If one of these conditions is not met, the upgrade will have to be done by means of the classical procedure. A secondary node that has not been upgraded will not start as there is a consistency check between data versions and binary file versions. On Windows, the system tries to start the IO service. This is it that controls the version of binaries and data are equal. If they differs, the IO service stops its startup and launch the unistart procedure that executes the upgrade procedure described above. Depending on the Windows cluster configuration, the upgrade could automatically restart the service, which would defeat the update, and even a failback procedure. Several Companies in this case the default installation values are used and the component names are linked to the Company name. Several nodes on the same Company in this case, the default installation values must be modified to distinguish between all the components library names, IFS directories, OUTQ, JOBQ, SBS. Two Dollar Universe instances on the same machine cannot share any system components. 18 18 Chapter 3 Process Organization 3 Process Organization This chapter presents the organization of Dollar Universe processes and details security. Dollar Universe Application Server V6 is by default composed of five servers shown in the diagram below. DQM Distributed Queue Manager. Handles job submission on the system EEP External Event Processor. Communicates with the system host about all external resources except logical resources CDJ Collect Dispatch Job. Sends information to UniViewer Console monitors Job Runs and Job Chains BVS Business View Server. Computes the status of Job Chains for UniViewer Console CLI Command line interface.

The IO server allows local management of Dollar Universe files. It operates at the Area level and must be started before any Dollar Universe transaction batch or interactive can access data in the Area. It provides data communications between the diverse Dollar Universe files and processes. Each function can be started or stopped either by the interactive Engine management functions or by dedicated commands uxstr fnc indispensable for automatic startup. Scheduling and sequencing are the basic functions required to automate production, whatever the hardware configuration. These functions are managed by two Engines CAL The Calculator calculates the work schedule and supplies the Launcher with jobs to launch, LAN The Launcher performs three main operations on the Launches provided either by the Calculator or by an external trigger 1. Condition checking verification of a jobs prerequisite conditions with, where necessary, interrogation of remote Launchers via the Exchanger engine, 2. Launching submission of jobs whose prerequisites are satisfied to a batch queue, 3. Completion purging of Events as per Completion Instructions, relaunching of jobs awaiting completed Events; provocation of next level Uprocs in Sessions. This envelope executes the Uproc, in the context defined by the Task scheduling function. It also calls customer EXIT procedures, if they exist, before and after the submission of the application

procedure the Uproc. Refer to the Dollar Universe Reference Guide. If jobs have not been stopped killed and match these criteria, the RSY recovers their job statuses from DQM. If jobs still have one of these two statuses, they stay in the list. When jobs end normally, they get removed from the list. If DQM does not recognize a job, the RSY gives it an Aborted status and removes it from the list. The goal of this engine is to optimize the Launcher performance, especially during heavy load times.

SUR The Supervisor is called upon by the Launcher when the latter finds an unsatisfied Resource condition. It delegates supervision of external Resources all except Logical Resources to the EEP 20 20 Chapter 3 Process Organization External Events Processor. When the condition is fulfilled, the Supervisor alerts the Launcher. Supervision of Resources takes place according to a cycle allocated when defining the Resource. DQM The Distributed Queue Manager is now an integral part of Dollar Universe. All jobs are processed within DQM queues. If the DQM server is stopped, no jobs can execute on the local node. SAP The Dollar Universe Manager for SAP Solutions is now systematically delivered with Dollar Universe Application Server. Activation of the Manager is however optional. The Manager consists of a single server called SAP. OAPP The Manager for Oracle Applications is now systematically delivered with Dollar Universe Application Server. The Manager consists of a single server called OAP. GSI The Generic Server for Integrations is a technical component and Dollar Universe engine that manages new Dollar Universe Managers for example Dollar Universe Manager for SQL Server. Depending on the requested configuration, it loads the integration DLLs. The corresponding Manager becomes a GSI service. ALM The Alert Manager transmits alerts to configured supervision tools. Alerting Rules are defined on each Dollar Universe Application Server. Different alerts can be sent to different supervision tools. SYN The Synchronization engine fetches 5 categories of data updates from the UniViewer Management Server Nodes the list of all nodes of the same company and their status in UVMS UVMS Roles and UVMS Groups the list of groups, roles and permissions that apply to the Dollar Universe Application Server.

Proxies associations between all UVMS Logins and UVMS Groups and the association between all UVMS System User Patterns and UVMS Groups Alert rules all UVMS Alert Rules applying to the Dollar Universe Application Server. UVMS node list The synchronization process is described in the UniViewer User Guide. Service Monitoring The list of functional and technical services created by the installation procedure is detailed in the Dollar Universe Installation Guide together with the commands for starting, stopping and displaying their individual or collective status. The installation procedure ensures the automatic startup of the product after system boot on Windows and UNIX TCP Port Server Each Dollar Universe server communicates by a TCP port that it is dedicated to. This TCP port is assigned during installation. The technical architecture of DQM is summarized in the following diagram. It is worth noting, however, that DQM works mainly in memory. Nonetheless, to facilitate recovery after system stoppages accidental or otherwise all batch queue permanent descriptive data is stored in the DQM data files mentioned above. DQM creates the execution processes of the jobs submitted to batch queues under its control. Furthermore, to ensure real time management, DQM maintains a constant dialogue in clientserver mode with all its running processes. Job a Job b Job c Job d Job 1 Job 2 Job 3 Job y QUEUE A QUEUE B QUEUE C DQM dump file DQM server process Submission and monitoring Running processes Figure 8 Process architecture The DQM server is shared by all Areas and is attached to one and only one Company. In OpenVMS, jobs remain on the DQM until their status changes to running. Then they are submitted to the VMS Queue Manager VMS Queue Manager On OpenVMS, jobs are placed on a DQM batch queue and are submitted to the VMS Queue Manager which can be used to launch jobs in printer queues and batch queues. In order to launch jobs, the queue manager must be started.

Batch queues are identified by their name and are defined on a host. In a cluster configuration, a job can be submitted directly on an execution batch queue in order for it to be run on a specific cluster member. If a job is launched on a generic batch queue, the queue manager will route the job to an

available execution batch queue. 22 22 Chapter 3 Process Organization Figure 9 VMS Queue Manager Process Architecture In OpenVMS, the DQM batch queue can be configured through UVC, but the VMS batch queue can only be configured using OpenVMS commands. 3.3 Activity Tracing Display Server In order to track production, Dollar Universe monitors job execution status via the CDJ Server. The Launcher transmits each change of job status to the Display Server, which, in turn, forwards the status changes to the UniViewer Console Job Runs and Job Chains documents. If an interface to an external supervision product has been installed, the status changes would also be transmitted to this tool. Customers may implement alternative methods for monitoring their Dollar Universe workload. If this is the case they may wish to disable the display server. Refer to the UniViewer User Guide for details about creating and deploying packages. 23 Chapter 3 Process Organization Alarm Management Dollar Universe Application Server can be integrated with multiple supervision tools simultaneously. Refer to the Dollar Universe UniViewer User Guide for explanations on the definition of Alerting Rules Traces Log level management allows the user to set the nodes verbosity for trouble shooting purposes. Refer to the UniViewer User Guide for details. Alternatively Logins can be authenticated via LDAP if this option is enabled. 2. Jobs are submitted locally on Dollar Universe Application Servers with Submission Accounts. 3. Dollar Universe Application Server triggers jobs remotely by using an internal IO connection. 4.

The Command Line Interface triggers requests on Dollar Universe Application Server nodes using System User Patterns. Only the user who runs the command can read the results of the command. 25 Chapter 3 Process Organization 25 A number of objects have been created to manage access rights Logins Declare users that can access Dollar Universe Application Servers from the UniViewer Console. System User Patterns Define users that can access Dollar Universe Application Servers from the Command Line Interface. Roles Define the security to be applied to Dollar Universe objects. Groups Accumulates Logins, System User Patterns and Roles. Submission Accounts System Users authorized for job submission Users UniViewer Console Logins Interactive access to a Dollar Universe Application Server is provided by UniViewer Console and passes by a UniViewer Management Server. The user is required to authenticate with a user and password declared on the UVMS or his system user and password if the link with LDAP is active. UVMS Logins are associated with Roles and Groups to attribute access rights to various objects. The Windows user service is created automatically on declaration of the Submission Account on Windows. If the installation is done under a particular account, the Company belongs to this administrator. Change the uxdqmlan owner to root and add the SUID bit. The data are therefore identical in UVMS and in Dollar Universe. This synchronized data is accessible In UVMS by the UVC interface or by UVMS administration commands. In Dollar Universe by the command interface. The commands described above should only be used if Technical Support requests it. The data display can be modified without warning. This list regroups logins UVC and user patterns SYS. Login permissions are calculated after roles are assigned to the groups. Group roles The universe group command located in the Company bin directory lists the roles associated to a group.

Role permissions The universe role command located in the Company bin directory lists the roles associated to a role. There are two ways of doing this Give the scheduling engine the privileges required to enable the change of identity without providing a password, 27 Chapter 3 Process Organization 27 Trigger the job and provide the user password. The former method avoids storing passwords locally or transmitting user passwords. The privileges associated with a binary with the setuid bit and belonging to root are not recoverable by another user. Installation of a Dollar Universe Application Server under a nonroot account implies that Dollar Universe objects belong to the installation user Dollar Universe objects are members of the installation users group DQM uxdqmsrv and the supervisor uxsur do not get the privileges of the account root. As a consequence, jobs can only be submitted under the installation user account. This limits the scope of the schedulers submission capabilities, but it does mean, however, that the product can be installed and

demonstrated without the involvement of system administrators. Windows systems Installation must be carried out under a local administrator account since Windows services must be created during the installation. It also wakes up the launch engine at the end of processing to update job status in Dollar Universe. The use of secure shell for example prevents the use of the su command from a generic account such as root. Consequently the user must identify himself personally to the system before being allowed to su to an ssh account. He is also expected to provide a password with the su command. The advantage of this mode is to facilitate the tracking of user actions. However, this is clearly incompatible with normal Dollar Universe mode of operations. The Company NOPRIV was therefore installed while logged in under the user lambda. All Dollar Universe objects belonged to lambdalambda. First update the sudoers file.

Make sure that the requiretty is disabled for these 2 users. Thus, there could be a need for extra system resources when sudo is enabled and a large number of jobs are expected to be simultaneously in Running status. View more Advanced Installation Guide. Publication Date August 24, 2015 This software is protected by copyright law and international treaties. Unauthorized reproduction or distribution of this Agent Installation and Uninstallation Messages Ahsay TM Online Backup Development Department All rights reserved. Author Other brands and products are registered trademarks of their respective holders. 2013 Sysgem AG, Lavaterstr. 45, CH8002 Zurich, All rights reserved., 78812937601d 3M is a trademark of 3M. Microsoft, Windows, Windows Server, Windows Vista and SQL Server are However, errors might have been introduced caused by human mistakes or by other means. This software and related This edition To check for more recent editions of this document, All rights reserved worldwide. No part of this document may be reproduced by any means nor modified, All rights reserved worldwide. No part of this document may be reproduced by any means nor modified, decompiled, disassembled, published or distributed, in whole All rights reserved. Table of Contents Preface. 11 Chapter 1 Server Installation Quick Start. 13 Installing Copyright notice and proprietary information All rights reserved. VERITAS Software Audit Date This publication may refer to products that are not currently available in your country. Information in this document is subject to change without The UnlimitedFTP UFTP software will allow you to run from any web page using Netscape, Internet Explorer, Opera, Mozilla or Safari browsers. It can All rights reserved. All rights reserved. This manual and computer program is protected by copyright law and international treaties. Unauthorized reproduction or This information can also Administration Guide Reproduction without permission is prohibited.

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