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DCM architecture

Distributed configuration management enables you to synchronize the configuration of, archive, and import and export multiple Oracle Application Server Instances as if they were a single Oracle Application Server Instance. This guide refers to such configurations as "DCM-configured". To provide the management functionality, DCM keeps information about an Oracle Application Server Instance's configuration in the DCM Metadata Repository. The repository and the Oracle Application Server Instances comprise the distributed configuration. In this section, each element of the distributed configuration and its relationship to other elements is described in detail. The fundamental element of the distributed configuration is the Oracle Application Server Instance: the set of processes required to operate the components that are configured. The terms "instance" and "installation" are sometimes used interchangeably, but note the distinction: an instance is the set of processes that operate the components, whereas an installation is the set of files installed into an Oracle home. The distinction is important in the context of DCM management, because the DCM management scope does not extend to all files installed in the Oracle home—only those related to the set of processes that are needed to operate the configured components. A DCM-Managed OracleAS Cluster is a collection of Oracle Application Server Instances with identical configuration and application deployment characteristics. To become members of a DCM-Managed OracleAS Cluster, Oracle Application Server Instances must be of the same installation type and version, reside on a like operating system (for example, UNIX and Linux) and contain only Oracle HTTP Server, OC4J, OPMN, and JAZN components. An Oracle Application Server Farm is a collection of OracleAS Clusters and Oracle Application Server Instances that share the same DCM Metadata Repository. The shared repository is called the repository host. Section 1.1.1.4.2, "File-based Repository (Repository Host)" describes the repository host and its use. An Oracle Application Server Farm may be of one of the following types: an OracleAS File-based Farm or an OracleAS Database-based Farm. In order to manage configurations, DCM stores information about the configuration (called configuration metadata in this guide) in the DCM Metadata Repository. All configuration data is stored in the DCM Metadata Repository. The DCM Metadata Repository is a distinct metadata repository that is not dependent on the Oracle Application Server Metadata Repository. The DCM Metadata Repository contains: Configuration files for Oracle HTTP Server, OC4J, OPMN, and JAZN components Deployed J2EE applications Information about the Oracle Application Server Instance or OracleAS Cluster A DCM Metadata Repository is stored in the file system or in the database, in one of the following configurations: A single Oracle Application Server Instance that is not part of an OracleAS Cluster or Farm is called a standalone Oracle Application Server Instance. Every Oracle Application Server Instance has a local file-based repository. When an Oracle Application Server Instance is associated with an OracleAS File-based Farm, but is not the repository host, the local file-based repository contains the Bill of Materials (BOM) that DCM uses to validate that the Oracle Application Server Instances's configuration is synchronized with the configuration metadata in the repository. When the Oracle Application Server Instance is not associated with an Oracle Application Server Farm, the local file-based repository is the only stored representation of the Oracle Application Server Instance's configuration information. When an Oracle Application Server Instance is defined as the repository host for an OracleAS File-based Farm, the repository for that Oracle Application Server Instance contains the configuration metadata for all Oracle Application Server Instances in the OracleAS File-based Farm. Since the repository host Oracle Application Server Instance stores configuration information on its file system, the repository host Oracle Application Server Instance should use mirrored or RAID disks to increase availability. However, when the repository host Oracle Application Server Instance is unavailable, OracleAS Clusters using it still function normally, but cannot update any configuration information. Read-only configuration operations are not affected on any running Oracle Application Server Instance (the Oracle Application Server Farm's cluster-wide configuration information is distributed and managed through the local repository. Operations that attempt to change configuration information in the repository will cause an error. These operations must be delayed until the repository host Oracle Application Server Instance is available, or until the repository host Oracle Application Server Instance is relocated to another Oracle Application Server Instance within the Oracle Application Server Farm (see repositoryRelocated). A Database-based repository is comprised of DCM schema. Storing the DCM Metadata Repository in a database may be useful as part of a site's high availability and backup strategy. Using a Database-based repository, the database serves as the repository host. For all three types of DCM Metadata Repository: Database-based repository, file-based repository in standalone mode, or file-based repository host mode, an Oracle Application Server Instance always has a local file-based repository. In cases in which the Oracle Application Server Instance is not included in an OracleAS Farm, the local file-based repository is the sole persistent storage for that Oracle Application Server Instance's configuration metadata. When you make configuration changes using either Oracle Enterprise Manager 10g Application Server Control Console or the dcmctl utility, the configuration management system updates the DCM Metadata Repository to reflect your changes. The DCM Metadata Repository is the definitive source for DCM-managed configuration information. If there is a difference between the Oracle Application Server Instance configuration stored in the repository and the Oracle Application Server Instance configuration in the associated ORACLE_HOME file system, the configuration in the file system is updated with the configuration in the repository. When the DCM repository and the file system configuration information are identical, the configuration is synchronized; its In Sync Status is true. (See getState and resyncInstance.) Immediately after a configuration change, DCM automatically attempts to resynchronize the members of an OracleAS Cluster. If an Oracle Application Server Instance in an OracleAS Cluster is not available, the resynchronization occurs the next time the DCM daemon on the Oracle Application Server Instance is started. The DCM daemon can be started manually with the opmnctl startproc ias-component="dcm-daemon" command. When a configuration change is made in a Oracle Application Server Farm or in a OracleAS Cluster, DCM attempts to ensure that the change will be successful by first applying the change to the local Oracle Application Server Instance, before attempting to propagate the change to other Oracle Application Server Instances. If the configuration change fails in the local Oracle Application Server Instance, its effects are automatically rolled back; no changes are made to any Oracle Application Server Instance. In some cases, a configuration change may succeed on the local Oracle Application Server Instance, but fail on other Oracle Application Server Instances in the Oracle Application Server Farm or OracleAS Cluster. This could occur for many reasons, including insufficient disk space, file system security, or connectivity from the Oracle Application Server Instance to a dependent service such as Oracle Internet Directory or the database. In these cases, the In Sync status of the Oracle Application Server Instance is set to false. When the In Sync status is set to false, the event is recorded, with details, in the DCM log file. When the problem that caused the status to be set to false is resolved, you should resynchronize the Oracle Application Server Instance, using the dcmctl resyncinstance command to copy the configuration stored in the repository for an Oracle Application Server Instance to the file system for the Oracle Application Server Instance (see resyncInstance). The updateConfig command is another synchronization command that requires special handling. The updateConfig command takes configuration information from the file system and places this configuration information in the DCM repository. Ensure that you understand the guidelines for using the updateConfig command before you use it (see updateConfig). See Also: "In Sync Status is False" The Peter W. Rodino Jr. Federal Office Building is a 16 story, 467,550 square foot structure housing several government agencies, including the United States Citizenship and Immigration Services' Regional Center, the General Services Administration, and the US Attorney's Office. The original main-entry vestibule of this secured building consisted of two narrow entrances, with only one scanner in each and an oversized exit pathway between them. To alleviate the daily congestion and long visitor lines waiting to go through security, the vestibule was expanded outward to the building's existing two-story exterior columns. Taking adjoining first floor space, the two security screening entrance spaces were expanded to fit two baggage and portal body scanners in each; while the exit pathway was narrowed. DCM used the structural pattern of the existing concrete-clad façade to design the mullion grid of the new two-story curtain wall system. The supporting structure for the new canopy that cantilevers over the plaza remains hidden behind these curtain wall mullions, making this large stainless-steel canopy appear to float. Elevated six feet above the plaza, the expansion of the Walnut Street vestibule required redesign of the stairs leading up to the raised platform in order to meet ADA clearance requirements. A new stone cap with precast ribbed concrete panels match the existing color palette while adding a decorative touch. Inside, the vestibule's interior provides a modern look yet remains warm and welcoming to the public. DCM worked to replicate the strong geometry on the façade utilizing divider strips in the terrazzo flooring and shadow reveals between the finishes on the walls. Different materials are used to differentiate the spaces within the vestibule. From the street, visitors enter into a double-height space with reflective glass ceiling panels and light-colored marble cladding; ribbed to match the texture used on the concrete panels outside. The security checkpoint area with the baggage and portal body scanners has a lower ceiling and linear cove LED strip lighting. Perforated wood panels cover the new blast resistant CMU barrier, creating a softer color scheme while also helping to reduce noise. Radiant floor heating helps to alleviate cold drafts in the winter. Composite panels completely separate the central exit corridor from the two entries. Finished in brushed aluminum and mimicking the wood panels' perforation, these panels allow the guards to see into the exit corridor for additional safety measures, while still providing access control. 0 users love this project Project Authors The Peter W. Rodino Jr. Federal Office Building is a 16 story, 467,550 square foot structure housing several government agencies, including the United States Citizenship and Immigration Services' Regional Center, the General Services Administration, and the US Attorney's Office. The original main-entry vestibule of this secured building consisted of two narrow entrances, with only one scanner in each and an oversized exit pathway between them. To alleviate the daily congestion and... read more Project details High Performance Architecture and Engineering DCM proudly serves the Executive Office of the President of the United States through the GSA White House Service Center DCM PHILOSOPHY DCM PHILOSOPHY PHILOSOPHY European market leader De Ceuster Meststoffen (DCM) produces organic fertilisers linked to waste flows from the food industry. This sustainable approach is reflected in their new energy-efficient head office in Grobbedonk. All modern sustainable construction technologies are integrated: concrete core activation, solar panels, extensive insulation and architectural solar shading. The perfect combination of functionality and design of the DucoSun Wing louvre blades won over the client and Schellen Architecten. Dynamic in form and finish; DCM's head office exudes these qualities. The triangular building with a surface area of 2,800 m² makes optimum use of the shape of the plot. The design also takes advantage of the south-western orientation and the lie of the land. The building is embedded, as it were, in a hillside and as such anchored into its surroundings. The overriding narrative here is the link between the inside and outside, with a strong focus on plants and nature. Logical given that DCM is active in the horticulture sector. This project not only accommodates the central departments but also serves as a conference centre. An assignment architect Reginald Schellen looks back on with pleasure: 'The ideal symbiosis between the building and its environment makes this project genuinely unique. The building nestles into its natural surroundings and as such reflects the green philosophy of the company.' Keeping the sun's heat out 'The glass façade on the south side and the centrally located terrace allow light to flood into the building,' continues Schellen. 'The windows also form the link with the greenery, the hills, the lake and the vegetation. Glass façades facing the sun can easily lead to overheating of the interior during periods of warm and sunny weather. In an energy-efficient office building, the skill is to allow a lot of light to enter during the winter but keep out the sun's heat during the summer.' Structural solar shading 'To prevent the summer sun becoming the enemy of living comfort, structural external solar shading is vital,' stresses Schellen. 'This is why we opted for the uniquely-shaped louvre blades DucoSun Wing. Based on experience with other offices, we know that the best option is to fit the louvre blades horizontally on a south façade because the sun is high. The architectural added value of the louvre blades on the large south façade should not be underestimated. Duco came out on top, financially and technically, from the comparison. Take the specific shape and the mounting of the louvre blades for instance. Together we looked for the ideal warm colour.' Movable system 'The DucoSun Wing is perforated and thus assures perfect harmony between solar shading and shadow,' says Pieter Decat, technical-commercial consultant. 'The fin-shaped louvre blade has an urban design and can rotate with the sun which means the light entering can be controlled. This enables a better atmosphere in the space. The louvre blades can be adjusted to almost any position. In this way there is no nuisance light on the shop floor, however the sun shines through. The structural solar shading at DCM not only ensures efficient protection from the sun's rays but it also ensures a drop in the average indoor temperature of up to 12% to combat overheating.' Schellen concludes: 'This is a project we can be rightfully proud of.'

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