



# Citrix MetaFrame Access Suite Licensing – Frequently Asked Questions

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## WHAT IS CITRIX METAFRAME ACCESS SUITE LICENSING?

Citrix® introduces MetaFrame® Access Suite licensing. This refers to the new licensing infrastructure that is in use in MetaFrame Presentation Server 3.0 and MetaFrame Conferencing Manager 3.0 and will be used by all Citrix MetaFrame products over time. More specifically, Citrix Access Suite licensing is not included in:

- MetaFrame Presentation Server 1.8
- MetaFrame XP Presentation Server, Feature Release 3 (all editions) and earlier
- MetaFrame Conferencing Manager 2.0
- MetaFrame Password Manager 2.5 and earlier
- MetaFrame Secure Access Manager 2.2 and earlier

## WHY IS CITRIX INTRODUCING A NEW LICENSING SUBSYSTEM?

Citrix Access Suite Licensing is being introduced in response to user requests for improvements in licensing systems. The key benefits of the new licensing architecture are:

- A reduction in licensing administration
  - Fewer user licensing interactions with Citrix are needed
  - Product upgrades become a benefit of Subscription Advantage™. You can now “License Once/Run Yearly”: licensing the product once entitles you to use any upgrade released during your Subscription Advantage period.
- Enhanced license management through a Web interface
  - Tools to measure licensing compliance through more comprehensive license tracking and management
  - Real-time reporting, historical reporting and alerting for license expiration and license shortfalls
- For MetaFrame Presentation Server 3.0, customers will now be able to share licenses across farms. No longer are customers forced to design farms around licensing as with today’s legacy licensing.
- A single, consistent licensing system across all Citrix products. All MetaFrame Access Suite product licenses can be managed from a single point.

As a trusted advisor to our customers in the business-critical area of information access, we continue to reduce our customer’s IT management complexity by providing on-demand licensing. The new centralized license architecture removes the administrative burden of license management and increases customer value through effective use and management of Citrix MetaFrame Access Suite licenses. This enables customers to use licenses to their best advantage.

## PLEASE DESCRIBE THE NEW LICENSING ARCHITECTURE.

There are three new aspects of licensing to be aware of:

- License server – component that serves licenses to the Access Suite products
- License Management Console (LMC) – an administrator web-based user interface used to track historical and real-time license usage and to provide for alerting
- Updated MyCitrix Site – to deliver and manage license files (referred to as Allocation in the diagram below)

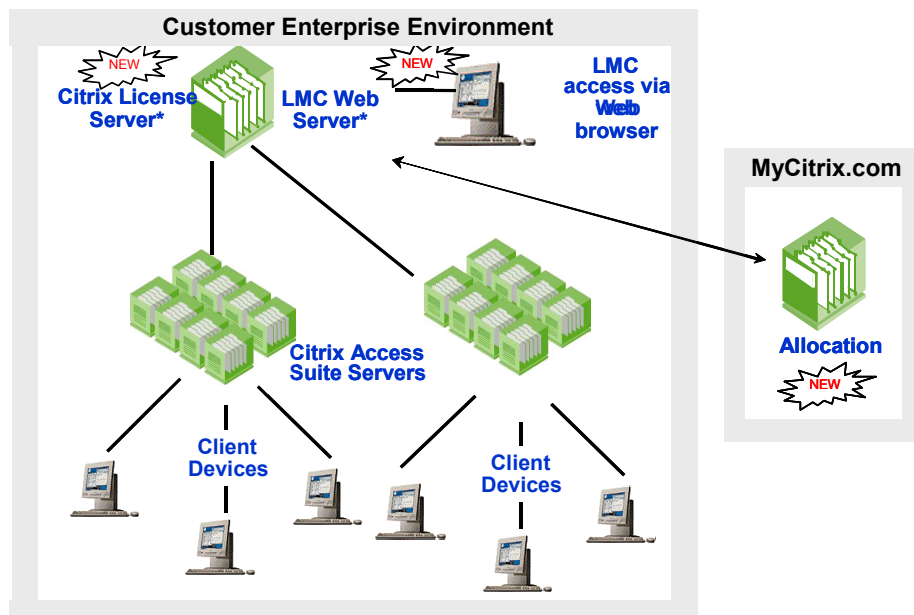


Figure 1

## WHY IS A LICENSE SERVER REQUIRED?

The Citrix license server was introduced for several reasons:

- The license server abstracts licensing functionality out of the respective Access Suite products and puts it into a central server for use by all Citrix products eliminating the need for each Citrix product to deal with licensing on its own in a stand-alone manner.
- The license server enables the sharing of licenses, reducing the cost of ownership associated with using Citrix Access Suite products.

A license file must reside on the license server to define which products are licensed and how they can be used. This license file is acquired from MyCitrix.com.

### **ARE THERE ANY ADDITIONAL COSTS ASSOCIATED WITH THE LICENSE SERVER?**

The license server is provided with the purchase of MetaFrame Presentation 3.0 or MetaFrame Conferencing Manager 3.0. As other Citrix products begin to use this new licensing technology, the license server will be included with them.

Please keep in mind that the license server can be installed on the same machine as the Citrix product server, depending upon the size of the customer implementation. In the case of larger implementations, a dedicated machine may be required to run the license server. See the MetaFrame Access Suite Licensing Guide listed on Citrix.com under the Knowledge Center: Product Documentation section for more information on deployment recommendations.

### **SHOULD I HAVE A DEDICATED MACHINE TO RUN THE LICENSE SERVER?**

You may choose to run MetaFrame Access Suite licensing on a server shared with other Citrix applications or to run MetaFrame Access Suite licensing on a server that runs only licensing software (dedicated). Your decision to deploy MetaFrame Access Suite licensing on a shared or dedicated server depends on the size of your environment and the number of machines connecting to the license server.

Deploying MetaFrame Access Suite licensing in a small environment—one with less than 50 machines connecting to the license server—means that you do not need a dedicated license server.

### **WHEN SHOULD I DEPLOY MULTIPLE LICENSE SERVERS?**

One or multiple product server/farms each pointing to a different license server can be deployed. You may need to deploy multiple license servers in the following cases:

- The number of clients and their associated license check-in/outs activity require dedicated license servers
- Geographically dispersed organizations want local license servers
- Departments or organizations need separate license servers for ownership and security purposes

It is important to note in scenarios where multiple license servers will be deployed that license sharing is not possible between the license servers.

To continue with the first bullet from above, in environments with over 50 product server machines, Citrix recommends that you install MetaFrame Access Suite licensing on one or more dedicated license servers.

### **HOW DOES THE LICENSE SERVER WORK IN CONJUNCTION WITH THE PRODUCT SERVER?**

Two of the most significant components of the license server are the License Manager daemon (lmgrd.exe) and the Citrix vendor daemon (CITRIX.exe). These two processes make up the executable components of the license server. The product server uses a client library to communicate with the license server.

The License Manager daemon handles the initial contact with the MetaFrame Access Suite product, passing the connection to the Citrix vendor daemon. It also starts and restarts the Citrix vendor daemon.

Licenses are granted by the Citrix vendor daemon, that runs on the licensing server. The Citrix vendor daemon tracks the number of licenses that are checked out and which product has them. MetaFrame Access Suite products communicate with the Citrix vendor daemon using TCP/IP. The licensing interaction between these components is discussed in further detail below.

### **PLEASE DESCRIBE THE LICENSE REQUEST PROCESS.**

Every MetaFrame Access Suite product environment must have at least one shared or dedicated license server. MetaFrame Access Suite products seek permission from this license server to run.

The first time a user connects to a MetaFrame Access Suite product (for example, the user starts a published application), the product requests a license from the license server. When the license server grants a license request, the MetaFrame Access Suite product reserves a license for its use. Reserving licenses for this purpose is known as checking out licenses. When the user logs off from the product server, the product returns the license to the license server. This process is known as checking in licenses. MetaFrame Access Suite products use a continuously open connection to the license server to check out licenses.

The step-by-step license request process is as follows:

- a. A user connects to a MetaFrame Access Suite product.
- b. The MetaFrame Access Suite product checks in the data store for the hostname and port number of the license server.
- c. The License Manager daemon talks to the Citrix vendor daemon, determines the TCP/IP port that the Citrix vendor daemon is using, and sends that information to the MetaFrame Access Suite product.
- d. The MetaFrame Access Suite product connects to the License Manager daemon and requests to communicate with the Citrix vendor daemon.
- e. The License Manager daemon determines which machine and TCP/IP port correspond to the Citrix vendor daemon and returns that information to the MetaFrame Access Suite product.
- f. The MetaFrame Access Suite product connects to the Citrix vendor daemon and requests a license.
- g. The Citrix vendor daemon checks to see if any licenses are available and grants or denies the MetaFrame Access Suite product's request.
- h. The license module in the MetaFrame Access Suite product grants or denies the use of the product based on the response from the Citrix vendor daemon.

### **HOW DOES THE LICENSE SERVER KNOW TO AUTHORIZE LICENSE CHECK-OUT?**

Information regarding license authorization is contained within license files that reside on the license server. Licenses are retrieved from MyCitrix.com. License files contain product licensing information as well as the license server name (that is, its Host ID), License Manager daemon port number, Subscription Advantage renewal date, license expiration date (if applicable), and other system information. All of this information is encrypted with a digital signature. You cannot modify license files, except to change port numbers and add comments in the form of attributes.

License files are specific to the server on which they are stored: you cannot move license files between license servers with different names. The server name that you specified when you generated the license file on MyCitrix.com is encrypted in the license file. You cannot edit the server name without destroying the license file. Any modifications, apart from those mentioned above, render the license files unusable.

### **HOW MUCH TRAFFIC IS GENERATED ON A WAN FOR A TYPICAL LICENSE ACQUISITION?**

Each logon will generate ~1k worth of data and each server will generate ~200 bytes every two minutes for a heartbeat.

## **IS THE LICENSE SERVER A SINGLE POINT OF FAILURE? WHAT MEASURES OF FAULT TOLERANCE WILL BE PROVIDED?**

To the extent that customers will continue to have access to their applications if the license server fails, the license server is not a single point of failure. Citrix has several mechanisms to ensure continuous client access in the event of license server failure:

- Windows Management Interface (WMI) alerting. A WMI provider can be used to offer immediate notification of license server communication failure through Resource Manager, Microsoft Operations Manager (MOM) Pack or other third-party tools. In addition, MetaFrame Presentation Server generates an event log entry that you can use through Resource Manager or MOM.
- A 96-hour (4 day) grace period is provided such that when a license server goes down, each Citrix product becomes its own license server with an allocation of licenses to each product equivalent to the number of licenses available on the license server. For most license server interruptions, this measure of redundancy will be sufficient. This provides redundancy not only for license server hardware and software, but also for failure of all network elements that connect the product server and the license server.
- Licenses can easily be backed-up and easily restored to a standby license server in the case of failure of the primary license server
- Citrix support for using Microsoft Clustering for the license server is coming soon. Information regarding this option will be available upon its completion.

## **HOW DOES THE GRACE PERIOD WORK?**

When the product loses its connection to the license server, it lapses into a grace period, by default 96 hours (4 day), that allows each product server access to the same number of licenses stored on the license server.

For example, if a MetaFrame Access Suite product cannot contact the license server due to a power outage or network problem, the MetaFrame Access Suite product continues to operate for 96 hours as though all licenses are available. If the product cannot contact the license server by the end of this period, the product stops accepting client connections until communication with the license server resumes.

## **IF MY LICENSE SERVER AND PRODUCT SERVER IN DISPARATE GEOGRAPHIC LOCATIONS, SHOULD I BE WORRIED ABOUT LATENCY?**

Each logon will generate ~1k worth of data and each server will generate ~200 bytes every two minutes for a heartbeat.

Furthermore, if the license server cannot be contacted within five seconds, the product server will go into the grace period and will allow product usage to clients in a seamless way. The product will continue to attempt to contact the license server in the meanwhile.

MetaFrame Access Suite products, specifically MetaFrame Presentation Server and MetaFrame Conferencing Manager, store a replica of the licensing information from the license server, including the number and type of licenses. If a MetaFrame Access Suite product server loses or cannot attain a connection to the license server, the product uses its local record of the licenses to continue licensing the product during the grace period. MetaFrame Access Suite products update this record every hour. Product and license servers also exchange heartbeat messages each other every 120 seconds to indicate to each other that they are still up and running.

## **WHAT CONSIDERATIONS SHOULD I MAKE IF THERE IS A FIREWALL BETWEEN THE LICENSE SERVER AND THE COMPUTERS RUNNING MY METAFRAME ACCESS SUITE PRODUCTS?**

You must configure a static Citrix vendor daemon port number. Without a static port number, the license server cannot communicate with the products. By default, the port on which the Citrix vendor daemon communicates changes dynamically—the CitrixLicensing service chooses a new port every time it restarts.

## **WHAT IS THE LMC?**

The License Management Console (LMC) is an administrative web-based user interface used to catalog license inventory, chart historical usage, monitor real-time license usage, and provide passive alerting. The LMC must be hosted on the same machine as the license server.

## **WHAT IS CITRIX'S LICENSING STRATEGY RELATIVE TO SUPPORTING THE ACCESS SUITE MANAGEMENT CONSOLE?**

The License Management Console (LMC) can be launched from the Access Suite Management Console. The LMC is a web-based administrator user interface used to track historical and real-time

license usage, and provides for passive license alerting. The LMC will house all of the licensing management and reporting functionality of the product.

### **WHAT IS CITRIX'S LICENSING STRATEGY RELATIVE TO SUPPORTING THE MANAGEMENT CONSOLE FOR METAFRAME PRESENTATION SERVER?**

The strategic direction of the company is to standardize support for the MetaFrame Access Suite Management Console. Generally speaking, Citrix will move functionality of the Management Console for MetaFrame Presentation Server to the MetaFrame Access Suite Management Console over time. The Management Console for MetaFrame Presentation Server provides the ability to point the MetaFrame Presentation Server to a license server. A farm wide setting exists to allow you to point all servers to a license server, if required.

There is no other licensing functionality in the Management Console for MetaFrame Presentation Server. The product roadmap will be developed for tighter integration between Citrix Licensing and the Access Suite Console.

### **IS ACCESS SUITE LICENSING LOCALIZED?**

The License Management Console, the user interface to licensing, is internationalized and localized to support English, German, French, Spanish and Japanese.

### **WHAT IS THE PURPOSE OF THE LICENSE FILE?**

A license file must be accessible to every machine that runs a Citrix license server. The license file contains information required by the license server to manage licenses. The information in the license file specifies the parameters of license usage, such as the product licensed, the number of licenses and the Subscription Advantage™ expiration date to name a few.

### **CAN YOU USE THE SAME LICENSE FILE FOR TWO SERVERS?**

No, license files cannot be shared between servers. The license file is tied to the hostname of the machine.

## **WHAT WOULD PREVENT SOMEONE FROM CHANGING THE CONTENTS OF THE LICENSE FILE IN ORDER TO GET ADDITIONAL LICENSES?**

License files are digitally signed during the MyCitrix.com license allocation process before they are downloaded. The license server verifies the signature. Any attempt to change the license file would invalidate the digital signature and render the license file useless.

## **ARE MULTIPLE LANGUAGE LICENSE FILES SUPPORTED?**

License files are language independent. Language is not a factor in the Citrix Access Suite licensing. All languages of the same product use the same license. The user can connect a German farm and an English farm to the same license server. Previous licensing systems employed server licenses that were language specific and could not be migrated between languages. Under Citrix Access Suite licensing, server licenses no longer exist. Only connection licenses are used.

## **HOW WILL CITRIX LICENSING AFFECT EXISTING LICENSE PROGRAMS, INCLUDING SHRINK WRAP AND ELICENSE. SPECIFICALLY, HOW WILL IT AFFECT ORDERING AND DISTRIBUTION UNDER THESE PROGRAM TYPES?**

The licensing issuance process will work as follows for the eLicense program:

- a. An order will be placed which will be tied to the creation of a license entitlement in the MyCitrix.com license fulfillment system
- b. A customer will receive an e-mail from the fulfillment with the license code.
- c. The customer will go to the MyCitrix.com fulfillment web site, log in, enter the license code and select the licenses to be allocated.
- d. They will then be prompted to download a license file associated with that fulfillment.
- e. That license file needs to be installed on a license server at the customer's site

Shrink Wrap customers will go through the following similar process:

- a. When the user receives the media, it will include a license code.
- b. The user will go to the MyCitrix.com fulfillment web site, log in, enter the license code and select the licenses to be fulfilled. They will then be prompted to download a license file associated with that fulfillment.
- c. That license file needs to be installed on a license server at the customer's site

## **WILL CITRIX CONTINUE TO SUPPORT AUTO ACTIVATION OF LICENSES?**

No, Citrix will not support this. For those not familiar with auto-activation, this approach is currently used by eLicense program customers. It provides them with a means to bypass the normal activation process.

License allocation replaces the concept of activation and auto-activation in the new Citrix Access Suite licensing. The license allocation process (see previous question) provides greater control, flexibility and self-service to the user as follows:

- Fewer file downloads required because of date based versioning (see Subscription Advantage section below)
- User can view every order they have and decide how many seats they wish to use at that time and on which license servers to allocate those licenses (partial allocation)
- User can choose to combine license entitlements into one file that they install on their license server for easier manageability

## **NOW THAT A SINGLE LICENSE SERVER CAN SERVE LICENSES ACROSS GEOGRAPHICALLY DISPERSED REGIONS IN DIFFERENT TIME ZONES, AM I FREE TO USE “FOLLOW THE SUN” LICENSING?**

Yes, this approach is feasible due to the fact that licenses can be pooled and shared across server farms. Follow the Sun licensing refers to the notion that there may be opportunities during which different departments in a corporation may be able to share licenses for applications across time zones and thereby share their Citrix licensing costs.

The Citrix End User License Agreement (EULA) does not prohibit follow the sun licensing. However, users should be aware that licensing traffic traverses the WAN between the product server and the license server. Bandwidth, number of Access Suite product servers and number of user connections are important issues to consider before attempting to do follow the sun licensing or to share licenses across farms across a WAN.

## **WHICH LICENSE MODEL WILL BE USED WITH CITRIX ACCESS SUITE LICENSING?**

Citrix continues to support the concurrent connected user (CCU) licensing model as the standard across all Citrix Access Suite products.

## **WILL CITRIX LICENSING REPLACE THE EXISTING LEGACY LICENSING INFRASTRUCTURE?**

MetaFrame Presentation Server 3.0 and MetaFrame Conferencing Manager 3.0 make use of the Citrix Access Suite licensing. All other products continue to use their existing legacy licensing infrastructure in the near term. The licensing systems in the respective MetaFrame Presentation Server and MetaFrame Conferencing Manager lines released prior to 3.0 can interoperate and co-exist with the licensing for 3.0 products, but will do so using independent licensing subsystems.

## **IF LEGACY LICENSES ONLY WORK WITH LEGACY PRODUCT, WHAT WILL CUSTOMERS DO WITH PRE-3.0 LICENSES?**

Citrix has updated the Subscription Advantage fulfillment site to make it easier for customers to obtain their licenses. They will be eligible to receive new license files for their existing legacy licenses that are current under the Subscription Advantage program. Their legacy licenses will be disabled upon migration. Upon migration, customers will be notified of a license rescission for their legacy licenses.

## **WILL CITRIX PROVIDE TEMPORARY LICENSES TO ALLEVIATE ANY LICENSING SHORTAGES WHILE TRANSITIONING FROM THE LEGACY LICENSING PLATFORM TO CITRIX ACCESS SUITE LICENSING?**

The legacy licenses can continue to be used until the transition to the new licensing platform is complete, at which point those legacy licenses will be disabled. There is also a legal rescission of those legacy licenses.

## **ONCE A CUSTOMER MIGRATES TO CITRIX LICENSING, HOW WILL CUSTOMERS BE CREDITED FOR PREVIOUS PURCHASES GOING FORWARD?**

Citrix does not offer “migration products” for customers on Citrix MetaFrame XP Presentation Server to Citrix MetaFrame Presentation Server 3.0. The only way to migrate is as a member of Subscription Advantage. If your Subscription Advantage membership has expired and you want to be reinstated into the program, contact Customer Care at 1-800-4-CITRIX (1-800-424-8749).

## **HOW DOES ONE MIGRATE FROM METAFRAME PRESENTATION SERVER 1.8 OR METAFRAME XP PRESENTATION SERVER TO METAFRAME PRESENTATION SERVER 3.0?**

Citrix has constructed a Subscription Advantage fulfillment site on MyCitrix.com, which provides for a migration mechanism for users of MetaFrame XP Presentation Server that wish to move to MetaFrame Presentation Server 3.0. Users that are current with Subscription Advantage are eligible

to receive new licenses for MetaFrame Presentation Server 3.0. A legal rescission process is in place for the original product licenses.

Customers using MetaFrame Presentation Server 1.8 must first migrate their licenses to MetaFrame XP Presentation Server. If Subscription Advantage has expired, customers should contact Customer Care at 1-800-4-CITRIX (1-800-424-8749) for assistance with reinstatement into the program. Upon migration to MetaFrame XP Presentation Server (there is no need to activate or install these licenses), the user may follow the step described in the previous paragraph if they choose to move to MetaFrame Presentation Server 3.0.

### **HOW WILL SUBSCRIPTION ADVANTAGE BE AFFECTED BY CITRIX ACCESS SUITE LICENSING?**

MetaFrame Access Suite licensing improves the way that Subscription Advantage is handled. Citrix has implemented date-based versioning (DBV) for its products. As a result, all product releases sent to customers will have a date “burned” in. The license file that resides on the license server (which the customer will get from MyCitrix.com) will have a Subscription Advantage expiration date. As long as the product’s burned in date precedes the Subscription Advantage expiration date, any release (whether major or minor) will work when installed. Such versions (released within the Subscription Advantage period) will operate perpetually (never time out) with this license present. All releases become a benefit of Subscription Advantage. Administrator contact with Citrix is only required when the customer renews their Subscription Advantage, at which time they will receive a new license file with a new Subscription Advantage expiration date.

As an example, a customer purchases a 50-user connection license for MetaFrame Presentation Server on March 15, 2004 with one year of Subscription Advantage. The release date for the product is January 5, 2004. This date is the product’s burn-in date. The user gets a license file with a date-based version/Subscription Advantage expiration of March 15, 2005 (one year from the purchase date). They can now install any version of MetaFrame Presentation Server released before March 15, 2005 without a new license and without contacting Citrix, except to download media.

Continuing the example, on or before March 15, 2005 when the customer renews Subscription Advantage, they receive a new license file providing for a 50-user connection license for MetaFrame Presentation Server. This new license file provides a new 50-user connection license and a new Subscription Advantage expiration date of March 15, 2006. The original 50-user connection license is disabled. Note that no numbered versions are provided for MetaFrame Presentation Server. The version is not relevant as the customer is purchasing a perpetual right to use any version of MetaFrame Presentation Server released before their Subscription Advantage expiration date.

MyCitrix allows the customer to perform an operation called Date Sync. Date Sync allows the customer to specify a date in the future so that all licenses from all products will have a coincident expiration date. This will allow customers who renew SA to coordinate their renewal activities.

### **WILL mLICENSE CONTINUE TO BE SUPPORTED?**

mLicense will not be available with Citrix Access Suite licensing. mLicense is a tool used to automate the process of license activation with MetaFrame XP Presentation Server. It tends to be more useful for existing customers that have many legacy licenses to manage.

Citrix Access Suite licensing provides the following benefits:

- The concept of activation is not relevant under Citrix Access Suite licensing so the numerous steps required with activation are eliminated
- Automated license renewals are provided with Subscription Advantage renewal
- License files are easily backed up
- Citrix will continue to provide enhancements to reduce the administration

### **WILL iLICENSE CONTINUE TO BE SUPPORTED?**

iLicense will not be available with Citrix licensing. For those not familiar with iLicense, it is a tool used to provide customers with the ability to pay for license usage post-use, rather than to pre-pay as is the case with the majority of customers.

### **HOW WILL METAFRAME CONFERENCING MANAGER BE LICENSED?**

The MetaFrame Conference Manager 3.0 version that works with MetaFrame Presentation Server 3.0 will also use the concurrent license model under Citrix Access Suite licensing. A license file specifically licensing this product will also need to be located on the license server. When a user is participating in a Conference (room), a concurrent license will be in use. That user can go into multiple conference rooms (sessions), but would still only be consuming a single CCU license.

### **WHAT GUIDELINES SHOULD BE USED IN DETERMINING HOW MANY METAFRAME CONFERENCING MANAGER LICENSES USERS SHOULD PURCHASE?**

If the user base for MetaFrame Conferencing Manager is the same as the user base for MetaFrame Presentation Servers, then Citrix suggests that the customer purchase the same number of concurrent

user licenses for MetaFrame Conferencing Manager as they have purchased for MetaFrame Presentation Server.

If a customer has not implemented MetaFrame Presentation Servers, or their MetaFrame Conferencing Manager audience is different from their MetaFrame Presentation Server audience, then Citrix suggests that the customer purchase one concurrent user license per two users. Any unique factors affecting the implementation or use of MetaFrame Conferencing Manager should be considered.

### **HOW WILL CITRIX HANDLE SITUATIONS WHERE CUSTOMERS ARE RUNNING METAFRAME CONFERENCE MANAGER ON METAFRAME XP PRESENTATION SERVER, FEATURE RELEASE 3, AND WISH TO UPGRADE TO METAFRAME CONFERENCE MANAGER 3.0, BUT DO NOT WISH TO UPGRADE TO METAFRAME PRESENTATION SERVER 3.0?**

MetaFrame Conferencing Manager 3.0 can be used with MetaFrame XP Presentation Server, Feature Release 3 and will leverage the existing IMA licensing infrastructure. When the customer visits the MyCitrix site, they will be given the following options from which to select:

- MetaFrame Conferencing Manager 3.0 licenses for MetaFrame XP Presentation Server, Feature Release 3
- MetaFrame Conferencing Manager 3.0 licenses for MetaFrame Presentation Server 3.0

If the customer chooses the incorrect licenses, they must contact Citrix Customer Care for assistance.

### **HOW DO I FIND OUT MORE ABOUT CITRIX LICENSING?**

- The following courses and reference material will provide more information on licensing :
  - Citrix MetaFrame Presentation Server 3.0: Features Update from MetaFrame XP Presentation Server Course: CTX-1248AW
  - Citrix MetaFrame Conferencing Manager 3.0: Selling and Positioning Course: CTX-1333AW
  - Citrix MetaFrame Access Suite Licensing: Architecture and Administration Course: CTX-1452AW
- Introducing Citrix MetaFrame Access Suite Licensing Whitepaper
- Licensing Webinar
- MetaFrame Access Suite Licensing Guide
- MetaFrame Access Suite License Server Customizations Guide

## **PLEASE PROVIDE A DEFINITION FOR COMMONLY USED LICENSING TERMS**

### **Allocation**

The act of retrieving a license file from the Citrix Web site. A license allocation is made against an entitlement. Multiple license allocations can be made against a single entitlement across multiple license server hosts.

### **Entitlement**

An entitlement represents what you are entitled to receive in terms of the product licensed and the total number of licenses.

### **Host name**

The host name of the machine on which the license server will run. Host name information is required because the license file will include information about which license server that file will be linked to.

### **License code**

Your license code is required when you download license files. It comes from an email or your product's packaging.

### **License file**

The license file contains information required by the license server to manage licenses. In general, the license file, or a copy of it, must be accessible from every machine that runs a Citrix license server.

### **License Management Console**

An optional Web-based tool that runs on the license server. The License Management Console helps you to download license files from Citrix, copy license files to the license server, and run reports to evaluate license usage.