



Canaveral iQ™ Release Notes

Release 2.1

Release Notes

Abstract

These release notes supplement (and in some instances supersede) information found in other Canaveral iQ documentation.

NEW MOON **Canaveral™ iQ**
from Tarantella®

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The following topics appear in this document:

PACKAGE CONTENTS	6
WHAT IS NEW IN RELEASE 2.1?	7
Named User Licensing.....	7
Multiple IFS Connections from Client.....	7
Canaveral Management Console.....	7
Canaveral Connection Manager.....	8
CE Clients.....	8
WHAT WAS NEW IN RELEASE 2.0?	8
Administrators	8
Canaveral Management Console	8
Secure Product Key	8
Client Groups	9
Server Roles.....	9
Single Port Relay.....	9
Local Server Install.....	9
Database Redundancy.....	10
Active Directory Synchronization.....	10
File Associations	10
Jobs Framework.....	10
Load Balancer	11
Delegated administrator	11
Client Manager on Application Server	11
Diagnostics.....	11
Connection Settings	11
Adding Application.....	12
Monitoring	12
Client Upgrade	12
File Logging.....	12
Clients.....	13
Canaveral Client Version.....	13
File Associations	13
Canaveral Connection Manager.....	13

What was new in release 1.5?	13
Administrators	13
Load Balancer	13
Connection Settings	14
Add applications	14
Session management	14
IFS	14
Ports	14
Database management	14
Disable Best Internal IP Address Discovery	14
Clients	15
Connection settings	15
Shortcuts	15
Disconnect and reconnect	15
What was new in release 1.2?	15
NT-embedded Windows-based terminals	15
What was new in release 1.1.2?	16
Mapping network drives	16
Viewing a floppy drive	16
What was new in release 1.1.1?	16
Pushing Canaveral roles	16
Distributing requests between Canaveral load balancers.....	16
Installing Canaveral iQ by way of a Terminal Server session.....	16
Working around MWI 2.0.....	16
Admin group dialog box when Domain Type is NT.....	17
Phantom drives and printers	17
KNOWN PROBLEMS OR LIMITATIONS WITH RELEASE 2.0 AND RELEASE 2.1	18
Installation error	18
One server with two teams	18
Canaveral Administrator group.....	18
MSDE SP3	18
NT4 Domain	19
Console logon error.....	19
Jobs Framework.....	19
Encryption	19

Color Depth connection setting.....	19
Enumerating printers	20
User names.....	20
Launch Pad error for deleted user	20
Provisioning applications that minimize to system tray.....	21
Application Server address	21
Smart card and auto client reconnect features	21
RELATED DOCUMENTS.....	22
Canaverall iQ User Guide	22
Canaverall iQ Installation Guide.....	22
Canaverall iQ Administrator Guide.....	22
Providing feedback	23
Tarantella and Canaverall iQ	24
About Tarantella	24
About New Moon Canaverall iQ from Tarantella	24
Other sources of information	24

Package contents

This section lists the items included in this release

Release	Contents
1 Canaveral iQ Server Roles	binaries on the CD
1 Canaveral iQ Client	binaries on the CD
1 Canaveral Resource Kit	binaries on the CD
1 Canaveral iQ	Release Notes
1 Canaveral iQ	Install Guide .chm
1 Canaveral iQ	User Guide .chm
1 Canaveral iQ	Administrator Guide .chm
1 Canaveral iQ	Install Guide .pdf
1 Canaveral iQ	User Guide .pdf
1 Canaveral iQ	Administrator Guide .pdf
1 Canaveral iQ	User Guide Help Files
1 Canaveral iQ	Administrator Guide Help Files
1 Microsoft	Microsoft Data Engine (MSDE)

What is new in release 2.1?

In addition to the bug fixes for stability, Canaveral iQ v2.1 introduces Named User Licensing and multiple IFS connections from a client.

Named User Licensing

- In addition to the Concurrent User Licensing that was available in the earlier versions, this version allows the administrator to install Canaveral iQ with Named User Licensing.
- Users that launch applications reserve licenses until they consume all the available licenses.
- These users can launch connections and have disconnected sessions.
- Other users cannot launch sessions even if these users close all sessions, until the lease period is over.
- The lease period is 168 hours.

Multiple IFS Connections from Client

- We can now have multiple IFS connections from a client to a server.
- Same user can launch multiple sessions with different connection settings from one client computer, and have independent printer list and local drive sharing for each session, based on the effective connection settings.
- Different users can launch applications from the same client computer and from the same Application Server, and can have independent printers and local drive sharing for each session, based on the effective connection settings.

Canaveral Management Console

The Add User, Add Groups, and Add OUs pages of the Canaveral Management Console now display the names of Users/Groups/OUs in ascending order. This makes it easy for the administrator to locate the name of the user, group, or OU to add.

Canaveral Connection Manager

If you have Canaveral Connection Manager v2.0 on your computer, the task bar icon now appears green when there are no active connections to indicate that a newer version of Canaveral Connection Manager is available for download.

CE Clients

CE clients now support all the Windows 2003 specific connection settings also. Additionally, for Windows 2003 servers, client drive sharing and printer sharing work on CE clients when you select Native as the option in connection settings, otherwise they are off. Windows 2000 settings have no effect on CE client; and client drive sharing and printer sharing are always off for Windows 2000 servers.

What was new in release 2.0?

This section explains the new features that are in this release. The section is broken into two sub-sections, the first explains features that relate to the Administrator and the second explains features that relate to the Users.

Administrators

These features affect the Canaveral Console and the Canaveral server environment.

Canaveral Management Console

Canaveral now comes with a new, improved management Console.

Secure Product Key

- Canaveral now uses secure product keys to prevent the keys required to use the product from being passed around to other people.
- The administrator now needs to activate the system with an activation key as the base key expires 60 days after installation.

Client Groups

- Canaveral now provides the facility to form Client Groups with client computers as members.
- The Canaveral administrator specifies the criteria for sorting.
- The administrator can assign applications, printers, and connection settings to Client groups.
- The administrator can set the system options to turn dynamic sorting ON so that every time the user connects to the Canaveral system, the user is sorted into a Client Group based on the filters on the current Client Groups.

Server Roles

The administrator cannot install any of the server roles on Windows NT servers. An additional role, the Relay Server role, can be pushed on to one or more servers to function as Single Port Relay.

Single Port Relay

- Canaveral now enhances security by allowing the use of a Single Port Relay that eliminates the need to open any ports other than the standard SSL port 443, or any other single port, on the corporate firewalls.
- Single Port Relay client side component multiplexes the RDP and IFS traffic and transmits that on the same port.
- Single Port Relay Server side component demultiplexes the traffic and forwards it to appropriate server.
- Application Servers can now reside on the internal network.
- Only the Single Port Relay must have a routable IP address.
- The Canaveral Administrator can enhance security by enforcing a SSL handshake between external clients and the Single Port Relay Server before it actually starts relaying the data to the internal Application Servers.

Local Server Install

- For installations where a domain is not accessible, administrators are now able to use Canaveral using local user credentials.
- Canaveral now allows local server install, where it is limited to local computer resources only.
- The local server may or may not be a part of a domain.

- Local users can launch the applications assigned to them when they logon locally.

Database Redundancy

- Canaveral now provides a method for a fail-over Database Server so that launch of applications does not fail even if the Primary Database Server is offline.
- Canaveral allows the administrator to specify a Backup Database Server in addition to the Primary Database Server.
- The Backup Database Server is automatically synchronized periodically with the Primary Database Server.
- The administrator can specify the time interval for this synchronization.
- The administrator can promote a Backup Database Server to make it a Primary Database Server.

Active Directory Synchronization

- Every time a user logs on to Canaveral, the system now retrieves the list of groups and OUs to which the user belongs.
- The system then retrieves a list of applications that are assigned to the user due to this membership.

File Associations

- Canaveral now enables the users to launch applications on the Canaveral Application Servers directly from the documents.
- Windows users can open files by double-clicking the files that have file associations to local applications.
- File Associations allow opening an existing file without first opening the application on remote Application Servers.
- A user can choose to enable file associations assigned by the administrators for each application.

Jobs Framework

- Canaveral now has the ability to place jobs on a queue that are executed in the background.
- Jobs submitted by administrators are now completed without being timed out.
- The administrator can go to any other page and carry on with the administrative tasks.

- An administrator can monitor the jobs submitted to the system by all administrators, and view the details of any job.
- The administrator can specify the purge settings for job logs.

Load Balancer

- The new, improved load balancer is more scalable.
- The Load Balancer now provides the option to use more comprehensive and relevant criteria for rating servers.
- Users can launch applications even when an administrator is doing application provisioning.

Delegated administrator

- Canaveral now allows the Canaveral administrator to create delegated administrator role and assign it to users or a group to delegate tasks.
- Canaveral administrator can assign monitoring and application provisioning tasks to delegated administrators.
- Canaveral administrator can specify the groups and OUs that a delegated administrator role will manage.

Client Manager on Application Server

Clients using a published desktop do not use an extra Canaveral license while connecting to the desktop, but use only the appropriate number of licenses based on the applications launched from the desktop.

Diagnostics

Canaveral has improved diagnostics with diagnostic tests for the Relay Server to check if port is available, and if the Relay server was able to grab it. It also checks if the Single Port Relay was able to load certificate correctly.

Connection Settings

Canaveral now has an improved Connection Settings feature.

- The Connection Settings for any connection take the precedence order of Client Group>Application>User Connection Settings for each individual setting.
- The effective connection settings can be a combination of the Client Group, Application, and User Connection Settings.

- The administrator can leave the Connection Settings unspecified while adding an application or a Client Group.
- The administrator can now leave some of the Connection Settings unspecified in a set of Connection Settings.
- The administrator can specify which of the Connection Settings will be visible to the user for choosing as Connection Settings at the user level.
- The administrator can specify certain Windows Server 2003 specific settings.

Adding Application

- While adding application, the administrator can add an application, or provision a Windows Remote Desktop.
- The administrator can leave the Connection Settings as unspecified.
- The administrator can enable file associations and specify file associations for the application.
- The administrator can now add applications to multiple users from the **Manage>Applications>Add User** page.

Monitoring

- The administrator can now monitor the database connections with all the servers for the Primary Database Server. You can also monitor these connections with the Backup Database Server if an administrator has added a Backup Database Server to the system.
- If there is a Relay Server in the team, you can view the load on the Relay Server by server or by client.
- The administrator can now monitor the status of jobs and view job details.

Client Upgrade

The administrator can now force a client upgrade by setting the system options such that if there is an older version of the Canaveral Connection Manager on the client computer, the client cannot go to any other page of the Launch Pad without client upgrade.

File Logging

Canaveral now logs, warnings, errors, and information to a log file.

Clients

These features affect the Canaveral Launch Pad and the client environment.

Canaveral Client Version

A user can find out the client version by placing the mouse over the Canaveral Connection Manager tray icon when there are no active connections. The tool tip displays the client version for v2.0 client.

File Associations

The administrators can make file associations, associating certain file extensions with applications on the Application Servers. The users can now open their documents directly in applications on Application Servers if they enable file associations. The users can enable file associations from the Options page of the Launch Pad.

Canaveral Connection Manager

The Canaveral Connection Manager now displays the following options on right-click:

- Refresh shortcuts and file associations instead of Refresh shortcuts.
- Delete all client settings instead of Delete all shortcuts.

What was new in release 1.5?

This section explains the new features of this release. The section is broken into two sub-sections, the first explains features that relate to the Administrator and the second explains features that relate to the Users.

Administrators

These features affect the Canaveral Console and the Canaveral server environment.

Load Balancer

Canaveral now uses a Master Load Balancer scheme to manage Canaveral Load Balancers in the team.

Connection Settings

- Canaveral enables you to limit the number of concurrent connections to any specific application server. This is a team-wide limit.
- Connection settings are now policy driven. These policies define the connection parameters.

Add applications

During the Add Application process, Canaveral can query the applications that reside on application servers and provide provisioning information, such as the application path and name, when an administrator selects an application.

Session management

- Canaveral now enables a user to open a single connection to an application server, and then to open several applications within that connection.
- Session management functions now operate on all applications that are open within a session.

IFS

IFS now operates at the application object level, so you can turn on IFS for one application and turn it off for another application.

Ports

Port 2287 is no longer required on the Canaveral web server.

Database management

You can now schedule a purge-logs job in the Canaveral Management Console.

Disable Best Internal IP Address Discovery

Canaveral now permits you to disable the best internal IP address discovery. By default, Canaveral discovers the best IP address to use for its internal communications. If you wish to specify a particular address, disable this discovery mechanism and enter an Internal IP address in the Internal IP Address To Use property. You can find these properties by way of the Canaveral Management Console. Click the Manage tab, Manage Servers sub-tab, and the Add Server (or Update Server) action.

Clients

These features affect the Canaveral Launch Pad and the client environment.

Connection settings

Users now manage their own connection settings from the Launch Pad.

Shortcuts

Clients can now manage their shortcuts and place them on the desktop, in the Windows start menu, or in a Canaveral Launch Pad Favorites page, which is different from the IE favorites folder.

Clients can refresh their shortcuts from the Launch Pad, from their desktop taskbar, or from the Windows Start menu (Start > Programs > Startup > Refresh Canaveral Shortcuts).

Disconnect and reconnect

Clients can view and manage their connections from the Canaveral iQ Launch Pad. This is only available when an administrator permits users to disconnect and to reconnect.

What was new in release 1.2?

This section explains the contents of this release. If you are a user of an earlier version of Canaveral iQ, this section will interest you.

NT-embedded Windows-based terminals

Canaveral is now available for a certain number of NT-embedded Windows-based terminals; like the Wyse device that hold a Windows NT operating system on flash memory.

Canaveral makes all the features found on the normal Canaveral NT client available to this type of device.

For Canaveral to run on this type of device, the device must have the ability to install software and 3 MB of free disk space. It must also be running Internet Explorer.

What was new in release 1.1.2?

This section explains the contents of this release. If you are a Canaveral 1.0 user, a Canaveral 1.1.0 user, or a Canaveral 1.1.1 user, this section will interest you.

Mapping network drives

The network drive mapping function improves network mapping when an administrator is using logon scripts.

Viewing a floppy drive

A user can encourage a floppy drive to become visible to a terminal server by placing a floppy disk in the drive and selecting File > Save.

What was new in release 1.1.1?

This section explains the contents of this release. If you are a Canaveral 1.0 user or a Canaveral 1.1.0 user, this section will interest you.

Pushing Canaveral roles

When pushing roles to remote Servers, Canaveral displays a message on the Console to let the Canaveral Administrator know that Canaveral is automatically rebooting the remote server.

Distributing requests between Canaveral load balancers

Canaveral addresses a known DCOM issue, and this action enables Canaveral to distribute requests between load balancers.

Installing Canaveral iQ by way of a Terminal Server session

You can now install Canaveral iQ using a remote terminal server session.

Working around MWI 2.0

Canaveral iQ now works with the Microsoft Windows Installer version 2.0.

Admin group dialog box when Domain Type is NT

With this release, you may use the “Domain Users” group as the Canaveral Admin Group.

For the Administrator Group Dialog Box (described under the Installing Canaveral iQ chapter and the Install Canaveral section), you were previously unable to specify “Domain Users” in the Group Name box.

Phantom drives and printers

Drives that are not available to you do not appear on your drive list. You will see only drives that you can use.

Only those printers that are available for your use are visible to you.

Known problems or limitations with release 2.0 and release 2.1

This section lists problems or limitations that are known to exist in these versions of Canaveral iQ.

Installation error

While installing Canaveral iQ, if the Print Spooler service is disabled on the server, the installation fails when the Application Server role is being installed. The Console then shows the Application Server running status as down and the install status as failed.

You need to remove the role from the Application Server, start the Print Spooler service on the Application Server, and add the role to the Application Server again.

One server with two teams

One server cannot be a member of two teams. If you want a server to be a member of a team (call it A team) and the server is already a member of another team (call it B team), then you must remove the server from B team before you configure the server to be part of A team.

Canaveral Administrator group

In case of Active Directory, if you specify a group of type Universal or Distribution as the Canaveral Administrator group while installing Canaveral, the installation fails. You can only specify Global Security group or a Domain Local group as Canaveral Administrator group.

MSDE SP3

During installation, if you encounter any problem while upgrading MSDE to SP3, or while installing a new instance of MSDE SP3 through a Terminal Services connection, download and restart the MSDE setup from the local computer.

NT4 Domain

In case two NT4 domains are added to Canaveral, the administrator cannot add built-in groups from one NT domain to Canaveral if the same groups were already added from other domain.

For example, if ADMIN and HR are two NT domains added to Canaveral and the Canaveral administrator has already added groups like 'Administrators' or 'Account Operations' from ADMIN domain, then the same groups from HR domain cannot be added to the Canaveral system.

Canaveral uses SIDs or GUIDs as a unique key to identify a particular group or OU and the built-in groups have the same SID even across domains. Since the SID already exists in the database, from the group added earlier, the console shows the same groups from different NT domain as selected to indicate that they already exist in the system.

Console logon error

When logging on to the Canaveral Management Console, if the user presses **Enter** when the focus is on the **Log on to** domain list, an error message box might appear. If it appears, click **No** on the error message box, remove focus from the **Log on to** domain list, and then press **Enter** or click **Log On**.

Jobs Framework

On the console, clicking the add/remove button more than once before submitting the respective job, may cause error in console, or you might get the job failed message, even though the job is completed. This is because clicking the add button twice causes two similar jobs to be submitted, the first job completes, and the second fails. To avoid this from happening, do not press the add/remove button more than once.

Encryption

By default, IFS and printing data is always transmitted in encrypted form. To turn off encryption for IFS or printing, contact technical support.

Color Depth connection setting

RDP 5.0 supports a maximum of 256 colors. Therefore, whatever the effective color depth connection setting, an application launched on a Windows 2000 Application Server displays with a maximum of 256 colors (8-bit).

If a user launches an application with an effective color depth connection setting of 24-bit on a Windows Server 2003 Application Server, the application is launched in 16-bit color, unless the client color resolution is set as 24-bit or higher.

Enumerating printers

If a user adds a printer on the client after connecting to the Launch Pad, the Print window does not list the printer in a Canaveral session print operation until the user refreshes the application list and then launches the application.

Depending on the type and number of Canaveral printers, the Canaveral system takes some time to list the Client Group and Application Server printers. Hence, on a computer that has no printers added on it, if a user prints from an application in a Canaveral session, the Add Printer window appears. After a brief interval, which varies depending on the printers in the Canaveral system, the Print window behind the Add Printer window lists the printers. The user can then continue with the print operation.

User names

You cannot add users with the First Name or Last Name longer than 60 characters to the Canaveral system. Users with the First Name or Last Name longer than 60 characters cannot logon to the Console or the Launch Pad. You should limit these fields to less than 60 characters in the Active Directory.

If the Web Server role is installed on a computer with Windows 2000, you cannot add users with the forward slash (/) in their First Name or Last Name to the Canaveral system. Users with forward slash (/) in their First Name or Last Name cannot logon to both the Console and the Launch Pad.

Launch Pad error for deleted user

If the administrator deletes a user after the user has logged on to the Launch Pad, and then the user clicks the Options link on the Launch Pad, the Launch Pad displays an error message.

Provisioning applications that minimize to system tray

Canaveral sessions currently do not support system tray icon integration. If a user connects to a provisioned application that minimizes to the Application Server system tray when the user closes the application, any pop-ups that appear may not be visible to the user. Besides, even after the user closes such an application, the connection may remain active, depending on the application settings.

We recommend that the administrator set an idle timeout in the connection settings for applications that minimize to the system tray when the user closes the application. We have provided the “Instant messaging applications” connection settings template for such applications. Besides, the administrator can provision such applications through a desktop so that the users launch the desktop through Canaveral, and then run the applications there.

Alternatively, if available, the administrator can make appropriate settings on such an application to exit when the application is closed.

Application Server address

If a user launches an application using a CE .Net client through Single Port Relay, the Console displays the loop back address for the Application Server instead of the Application Server’s address.

Smart card and auto client reconnect features

We do not support smart cards.

The user can reconnect using the Launch Pad. However, we do not support the auto client reconnect feature.

Related Documents

The following publications relate to this release of Canaveral iQ.

Canaveral iQ User Guide

The *Canaveral iQ User Guide* describes the activities performed by end users. It explains how they sign up, select applications, download software, logon, specify options, and use applications.

Canaveral iQ Installation Guide

The *Canaveral iQ Installation Guide* describes those activities that an administrator will perform before that administrator installs and configures Canaveral iQ. It also explains how to prepare for the software install, and how to execute the software install.

Canaveral iQ Administrator Guide

The *Canaveral iQ Administrator Guide* describes how to populate your database with Canaveral objects and how to create relationships between these objects. It also explains how to view and update objects and relationships, specify options, and how to obtain reports. Further, it explains how to use the Canaveral Resource Kit. Additionally, it provides information on installing the Canaveral WBT add-on for Windows CE-based Wyse terminals.

Providing feedback

Please send us your comments. If you would like a reply, please include your name, address and telephone number.

Tarantella Inc. welcomes your comments and suggestions concerning the quality and usefulness of this publication. Your feedback is an important part of the information used for updating documentation.

Please send us your input regarding any of the following:

- Did you find any errors?
- Is the information clear?
- Do you need more information? If so, where should it be?
- Are the examples correct? Do you want more examples?
- What features did you like about this manual?

If you find any errors or have any other suggestions to improve the quality of this publication, you can submit comments to us in the following ways:

- U.S. Mail:

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Tarantella and Canaveral iQ

About Tarantella

Tarantella, Inc. (NASDAQ:TTLAE) is a leading provider of purpose-built application access and deployment software to nearly 12,000 customers' sites worldwide. Tarantella enables organizations to access and manage information, data and applications across all platforms, networks and devices. Tarantella bridges the gap between vendors, ensuring that customers have complete access to business-critical information. Using Tarantella's software, customers realize the benefits of secure corporate data, maximizing return on existing IT assets and improved productivity. The company markets its products through key industry partnerships and a worldwide network of consultants and resellers. Tarantella is headquartered in Santa Cruz, California.

About New Moon Canaveral iQ from Tarantella

Canaveral iQ makes central deployment and management of server-based Windows applications simple, intelligent, and cost effective. Serving both enterprises and service providers, Canaveral iQ increases the efficiency of IT operations and improves business performance.

Other sources of information

You can find more information, as follows:

Source	Availability
Tarantella Inc.	+1 831 427 7222
Technical Support Center	Visit www.tarantella.com/support
Local Sales Office	Visit http://www.tarantella.com/about/offices/
Email to Tarantella	info@tarantella.com
Tarantella on the Web	http://www.tarantella.com