



IBM Host Access Client Package V12 delivers enhancements to Host On-Demand and Personal Communications

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At a glance

IBM[®] Host Access Client Package (HACP) provides the flexibility to access host applications in ways that your workforce demands. In a single package, at one price per user, the software delivers two functionally rich and secure products to meet your host access needs through a local client or the web. The Host Access Client Package includes:

- IBM Host On-Demand V12.0 (HOD)
- IBM Personal Communications for Windows[™] V12.0 (PCOMM)

Version 12 brings new enhancements to the Host Access Client Package, including Windows 10 support, new security features, and Java[™] Web Start-based functions.

Overview

Host Access Client Package addresses the needs of the traditional power user, while giving web access to remote users:

- Enables access to applications and data that resides on IBM i (5250), Systems (3270), and DEC/UNIX virtual terminal hosts for traditional web users.
- Offers a migration path from traditional emulation to web-based emulation.
- Uses thin-client technology that enables distribution of host access capability to remote users in intranet and extranet environments.
- Helps reduce your expenses.
- Uses your existing investments to gain competitive advantage.
- Provides improved security, including Single Sign On (SSO).

Enhancements in Host Access Client Package V12

IBM Host On-Demand

- Enhanced security feature for key usage and extended key usage for sending personal certificates.
- Host Integration License Manager, a new, web-based, centralized licensing module capable of counting and tracking the licenses of both Host On Demand and IBM Personal Communications (PCOMM) simultaneously.
- JSSE support for Host On Demand Redirector to enable TLS 1.1 and TLS 1.2 for secure connections.

- Windows 10 support.
- Standalone Host On-Demand application.
- IBM Installation Manager based install.
- New Java stand-alone client (platform independent) for Host On Demand and PCOMM users.
- 64-bit support for Host On Demand native features.
- More than 30 HOD features added since Host Access Client Package V7.

IBM Personal Communications

- Windows 10 support.
- Print preview support for print screen collection to enable the user to review, select, print, or delete collected screens.
- Improvements to and support enhancements for bypass sign-on password substitution feature for handling stored passwords.
- Support for server name indication (such as extension of TLS) to enable users to specify the server name during initial negotiation.
- New Stand-alone Host on-Demand (HOD) client application.
- Extension of PCOMM SNA connectivity on 64-bit environments by packaging remote API client.
- Improvements in trace and log collection.
- Multiple Virtual Storage data set support for FTP client.
- Translation and documentation of more than 25 features added since Host Access Client Package V7.

Key prerequisites

Supports Windows operating systems.

For details, refer to the [Hardware requirements](#) and the [Software requirements](#) sections.

Planned availability date

February 26, 2016

Description

New features, functions, and enhancements of IBM Host On-Demand V12.0

Security enhancements

- Transport Layer Security V1.1 and Transport Layer Security V1.2 support for Host On-Demand Redirector
- Capability for Host On-Demand Administrator to choose Java Secure Socket Extension (JSSE) for secure connections using Redirector. This results in the Host On-Demand Redirector using Transport Layer Security V1.2 or Transport Layer Security V1.1 or Transport Layer Security V1.0, based on the security configuration of the client or host.

Key usage and extended key usage:

- This feature allows the Host On-Demand client to send a personal certificate based on key usage. The Select Certificate Key Usage panel shows all of the defined Object ID (OID) key usages. This further supports extended key usage to add a new OID and description to the list.

- At authentication time, Host On-Demand chooses certificates for client authentication, based on the key usage that you select. If a certificate's enhanced key usage attribute contains one or more of the OIDs that you specify, the certificate is eligible for use.

Usability enhancements

The Look and Feel Enhancements for Host On-Demand V12.0 default theme for Windows clients is based on Java Nimbus Look and Feel. Other look and feel improvements include new session icons, logon screen background, and layout changes.

Windows style text selection:

- Host On-Demand user can select the text on the terminal screen in uneven fashion similar to text editing application, Notepad in Windows.

Close button for tabbed sessions:

- Users can close the embedded Host On-Demand sessions by using the Close button on the session tab.

GUI option to enable keystroke buffering:

- Key type-ahead feature enables users to continue typing when input is inhibited. Keys typed are queued and processed when input inhibited condition is removed.

GUI for directory utility:

- Graphical interface is included for the existing command line tool DirUtil for Windows and Linux™.

Copy as image:

- This feature allows the user to copy the green screen (presentation space) or part of the green screen (presentation space) as image.

Print graphics:

- This feature is implemented based on the print graphics function in PCOMM. It prints the marked area of screen as image.

Productivity enhancements

Script to find Host On-Demand server version:

- Host On-Demand Administrators can find the Host On-Demand server version by executing a script batch file available for all supported operating systems. This is useful for finding Host On-Demand server version using command line interface.

Support for browsers without Java plug-in:

- When accessed using a browser that does not support Java plug-in, Host On-Demand cached and download client pages automatically generate a JNLP file and prompt users to launch it to use Host On-Demand client without the web browser.
- All the default Host On-Demand cached and download client pages and those created using Host On-Demand V12.0 Deployment Wizard have this capability. For more information about the supported browsers, refer to Host On-Demand system requirements page.
- Currently does not support programmable Host On-Demand, Eclipse plug-in configuration utility and Portlets.
- Supports Google Chrome and Microsoft™ Edge.

Installation enhancements

- New installer enables Host On-Demand V12.0 to be installed using IBM Installation Manager on the all supported platforms. This would enable installation of fixes only (fix packs) versus having to do a whole product refresh (refresh pack)

Other enhancements

Stand-alone Host On-Demand client:

- Host On-Demand V12.0 includes a stand-alone client package that enables users to configure and access host sessions without any dependency on the Host On-Demand server. The Host On-Demand administrator can now allow users to download the stand-alone package.

64-bit support:

- Host On-Demand V12.0 can be installed as 64-bit application on a 64-bit operating system. Host On-Demand Service Manager runs as a 64-bit process.

Windows 10 support

Removed features and support

- Host On-Demand V12.0 does not support HP-UX or HP-IA platforms.
- Host On-Demand V12.0 does not support JRE 1.6, or earlier.

Features, functions, and enhancements added to Host On-Demand V12.0 since Host On-Demand V11.0

Emulator enhancements

- Enhanced Host On-Demand status bar.
- Improved tool bar merging.
- Improved offline feature.
- Meta tag editor for deployment wizard.
- Catalan language support.
- No timeout for connected status message.
- 3278 APL Extended Character Code support.
- EHLLAPI API support for Host Access Beans applications.
- Maximum JRE level can be configured for the Host On-Demand client.
- Email address recognition enhancement.
- VT100+ function type support.
- Server macro library enhancements.
- Server macro Library feature in Host On-Demand Admin Panel.

Security enhancements

- Reuse Active Credentials Macro - Synchronizing Macro Logon Prompt.
- Capability to disable blank passwords.
- SHA256RSA certificate support.
- 5250 file transfer using SSL.
- Transport Layer Security V1.1 and Transport Layer Security V1.2 support using Java Secure Socket Extension (JSSE).
- HTML parameter for inactivity logoff time.
- SSLv3 is disabled by default.
- Microsoft IE key-ring support with 64-bit JRE.
- Capability to lock out a user past maximum number of failed login attempts.

Usability enhancements

- Improved offline feature.
- No Help button for custom beans applications, clients can program their own help module.

DBCS/BIDI:

- Japanese JIS2004 Unicode support
- Bidirectional layout transformation in Host On-Demand macro extract/prompt actions

Removed features and support

- IBM JRE installer for windows clients has been removed.

New features, functions, and enhancements of IBM Personal Communications V12.0

Security enhancements

Support for server name indication (Transport Layer Security extension):

- Server name indication extension of Transport Layer Security enables the client to specify the server name during the "Client Hello" request. When more than one server is sharing a single IP address, this enables the server to provide a certificate corresponding to that server name.

Enhancement to Bypass Sign-on using Password Substitute feature:

- IBM Personal Communications now detects password changes on an IBM System i^(R) host and prompts the user to update the new password. This provides the capability to enable the user to update the password in the Windows registry when the host logon password changes or expires.

Installation enhancements

Removal of "Classic Private" application data location:

- "Classic Private" application data location has been discontinued with IBM Personal Communications V12.0 to align with the Microsoft strategy to keep application data out of application installation path ("Program Files" path).
- User now has capability to change the emulator profile file location under "Classic Private" and has now been granted to an installation with "All Users' common application data" location.

Packaging enhancements

IBM Remote API Client:

- On a Windows 64-bit client, no SNA stack is available for IBM Personal Communications. However, Remote API Client and PCOMM can be merged, enabling users to start SNA sessions in Personal Communications on 64-bit clients.
- IBM Remote API Client is now bundled with IBM PCOMM V12.0.

IBM Stand-Alone Host On-Demand:

- IBM Stand-Alone Host On-Demand is a stand-alone counterpart of IBM Host-On-Demand.
- This Stand-Alone Host On-Demand function provides cost-effective and secure host access to users in intranet-based and extranet-based environments.

- Unlike IBM Host-On-Demand, it has no dependency on web server and browsers. It supports emulation for terminal types, communication protocols, communication gateways, and printers.
- IBM Stand-Alone Host-On-Demand is now bundled with IBM Personal Communications V12.0.
- IBM Personal Communications users can use this application on Windows (32-bit and 64-bit), Linux, and Mac OS X platforms.

JRE Upgrade:

- IBM Runtime Environment Java Technology Edition (JRE) is upgraded to version 1.8.

Currency:

- IBM Personal Communications V12.0 now supports the Windows 10 operating system.

Usability enhancements

Print preview support for Print Screen Collection:

- With IBM Personal Communications V12.0, users can preview the emulator screens collected for printing. The following operations can be selectively performed on the collected screens:
 1. Print and keep collection
 2. Print and purge collection
 3. Process collection (print selected screens)

Enhancement to the Edit/Paste functionality:

- The cursor position can be moved to the end of pasted area. This requires the following keyword to be added to the "pcswin.ini" file:
 1. [Edit]
 2. MoveCursorToEndOfPastedData=Y

FTP client and enhanced support for MVS™ data sets:

- IBM PCOMM V12.0 now seamlessly supports file transfer to MVS file systems, apart from existing support for hierarchical file systems (HFS).

Note: File transfer to an MVS file system might result in change to the file name as per MVS naming conventions. This is applicable to both MVS sequential data set (also called physical sequential/PS) and MVS partitioned data set (PDS).

Serviceability enhancements

Enhancement to the trace facility:

- Tracing can be restarted without having the existing trace files overwritten.

Bidirectional enhancements :

Bidi enablement of AutoReverse and AutoPush:

- IBM PCOMM V12.0 now supports all four runtime Bidi specific input method parameters:
 1. "AutoReverse on LTR Screen"
 2. "AutoReverse on RTL Screen"

3. "AutoPush on LTR Screen"
4. "AutoPush on RTL Screen"
 - Bidi users of 3270 sessions can turn on this option; state of this option is persisted across session restarts
 - Bidi - Special Copy/Paste Treatment

IBM PCOMM V12.0 now seamlessly supports copy/paste of Bidirectional characters from and to advanced text editors. BiDi users can now paste the copied text in TXT, RTF, or HTML format based on the configured settings.

Other enhancements

- A new splash screen displays the product version and product build information.

Removed features and support

- CM Mouse support
- REXX EHLLAPI support

Features, functions, and enhancements added to PCOMM V12.0 since PCOMM V6.0

Security enhancements

- Support for Transport Layer Security V1.1 and Transport Layer Security V1.2 security protocols.
- Removal of support for SSL V3.0 to prevent Padding Oracle On Downgraded Legacy Encryption (POODLE) attack.
- Mandatory FIPS mode processing, to guard from the "Bar Mitzvah" security vulnerability.
- SSL handshake timeout set to three seconds.

Emulator enhancements

- Catalan language support.
- Addition of APL diamond character (0x70) to the PCOMM APL keyboard. When APL keyboard is enabled, the character is available as the unshifted state for tilde (~) key.
- Device type set to IBM-DYNAMIC automatically for screen sizes greater than 27 x 132 for Telnet 3270 sessions.
- Quick Connect Bar can be disabled by setting "DisableQCB" INI keyword to 'Y' under [Session] stanza.
- Left and Right Ctrl keys behave the same on a Canadian 445 ACNOR multilingual keyboard.

Utilities:

- Command Line FTP.
- Macro conversion utility enables conversion of a VBScript macro to an XML macro.

Bidirectional enhancements

- In a bidirectional installation, the FTP client has a new text field added to hold Logical Record Length under the Bidirectional Options section of the Session Configuration panel.
- Copy and paste enhancement allows for mixed Arabic-English and Hebrew-English text to be copied from and pasted to word processors with complete retention of text reordering.

DBCS functions:

- When the screen resolution exceeds 1280 pixels, character spacing can fix the maximized window in Japanese DBCS sessions. Set the "TextFitMaxWindow" .WS keyword to "Y" under "[DBCS]" stanza.
- IBM5577 and ESC/P PDT mode printing support added to Japanese JIS2004 Unicode sessions.
- English 037 host code page session support for Traditional Chinese installations. To enable this support, the Traditional Chinese Personal Communications product must be installed under the Traditional Chinese locale.
- Setting NewUDCRangeCHT=Y, and using a new keyword "UDCRangeAdjust=Big5Ext" in .WS profile under [Translation] stanza can exclude Big5 extended characters PC code 0xF9D6 to 0xF9FE out from UDC range.
- Support for Host Code Page 1377 - Hong Kong T-Chinese Mixed Host HKSCS (Traditional Chinese sessions only). PDT mode printing is not supported under this host code page.

IBM Personal Communications 90-day trial is available for download.

For more information, visit the [Host Access Client Package](#) website.

Accessibility by people with disabilities

A US Section 508 Voluntary Product Accessibility Template (VPAT) containing details on accessibility compliance can be found on the [IBM Accessibility](#) website.

Program number

Program number	VRM	Program name
5724-I20	12.0.0	IBM Host Access Client Package for Multiplatforms
5724-I21	12.0.0	IBM Host Access Client Package for iSeries

Offering Information

Product information is available on the [IBM Offering Information](#) website.

More information is also available on the [Passport Advantage^{\(R\)}](#) and [Passport Advantage Express^{\(R\)}](#) website.

Publications

Technical documentation can be found in [IBM Knowledge Center](#).

Services

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Technical information

Specified operating environment

Hardware requirements

Windows: Intel™ Based Architecture

Software requirements

HOD

AIX^(R)

- AIX 6.1 POWER^(R) System - Big Endian
- AIX 7.1 POWER System - Big Endian

IBM i

- IBM i 7.2 POWER System - Big Endian
- IBM i 6.1 POWER System - Big Endian
- IBM i 7.1 POWER System - Big Endian

Linux™

- Red Hat Enterprise Linux (RHEL) Server 6 Update 5 x86-64
- Red Hat Enterprise Linux (RHEL) Server 7 x86-64
- Red Hat Enterprise Linux (RHEL) Server 6 Update 6 x86-32
- Red Hat Enterprise Linux (RHEL) Server 7 IBM z Systems™
- Red Hat Enterprise Linux (RHEL) Server 6 Update 5 x86-32
- SUSE Linux Enterprise Server (SLES) 12 x86-64
- Red Hat Enterprise Linux (RHEL) Server 6 Update 6 x86-64

Mac OS

- OS X El Capitan 10.11 x86-64
- OS X Lion 10.7 x86-64
- Mac OS X Snow Leopard 10.6 x86-64
- OS X Yosemite 10.10 x86-64

Solaris

- Solaris 10 x86-32
- Solaris 11 Update 2 SPARC
- Solaris 10 x86-64
- Solaris 10 SPARC
- Solaris 11 Update 2 x86-64

Windows

- Windows 8.1 Professional x86-64
- Windows 10 Enterprise x86-64
- Windows 7 Professional x86-64
- Windows 7 Ultimate x86-32
- Windows 7 Ultimate x86-64

- Windows Server 2012 R2 Standard Edition x86-64
- Windows 7 Professional x86-32
- Windows 8.1 Professional x86-32
- Windows 8.1 Enterprise x86-64
- Windows 8.1 Standard x86-32
- Windows 7 Enterprise x86-32
- Windows Server 2008 R2 Enterprise Edition x86-64
- Windows 8.1 Enterprise x86-32
- Windows Server 2012 Standard Edition x86-64
- Windows 7 Enterprise x86-64
- Windows Server 2008 R2 Datacenter Edition x86-64
- Windows 10 Enterprise x86-32
- Windows 8.1 Standard x86-64
- Windows Server 2008 Datacenter Edition x86-64
- Windows Server 2008 Datacenter Edition x86-32

z/OS^(R)

- z/OS 2.2 IBM z Systems
- z/OS 2.1 IBM z Systems
- z/OS 1.13 IBM z Systems

PCOMM

Windows

- Windows 8.1 Standard x86-64
- Windows Server 2012 R2 Standard Edition x86-64
- Windows Server 2012 Datacenter Edition x86-64
- Windows 7 Service Pack 1 Ultimate x86-64
- Windows 8 Professional x86-32
- Windows Server 2008 SP2 Enterprise Edition x86-32
- Windows 8.1 Enterprise x86-64
- Windows 8.1 Standard x86-32
- Windows Server 2008 SP2 Datacenter Edition x86-64
- Windows 8.1 Enterprise x86-32
- Windows 8.1 Professional x86-64
- Windows Server 2008 SP2 Enterprise Edition x86-64
- Windows Server 2008 SP2 Datacenter Edition x86-32
- Windows Server 2008 SP2 Standard Edition x86-64
- Windows Server 2008 SP2 Standard Edition x86-32
- Windows 8 Enterprise x86-64
- Windows 8 Enterprise x86-32
- Windows 7 Service Pack 1 Professional x86-32
- Windows Server 2012 R2 Datacenter Edition x86-64
- Windows 7 Service Pack 1 Ultimate x86-32
- Windows Server 2008 R2 Service Pack 1 Datacenter Edition x86-64
- Windows 8.1 Professional x86-32
- Windows 8 Professional x86-64
- Windows Server 2012 Standard Edition x86-64

- Windows 7 Service Pack 1 Professional x86-64
- Windows 8 Standard x86-32
- Windows 10 Enterprise x86-32
- Windows 7 Service Pack 1 Enterprise x86-64
- Windows Server 2008 R2 Service Pack 1 Enterprise Edition x86-64
- Windows Server 2008 R2 Service Pack 1 Standard Edition x86-64
- Windows 7 Service Pack 1 Enterprise x86-32
- Windows 8 Standard x86-64

The program's specifications and specified operating environment information may be found in documentation accompanying the program, if available, such as a readme file, or other information published by IBM, such as an announcement letter. Documentation and other program content may be supplied only in the English language.

Planning information

Packaging

Host Access Client Package

This program, when downloaded from a website, contains the applicable IBM license agreement and License Information, if appropriate, and will be presented for acceptance at the time of installation of the program. For future reference, the license and License Information will be stored in a directory such as LICENSE.TXT.

Ordering information

Passport Advantage

Charge metric

Program name	Part number or PID number	Charge metric
IBM Host Access Client Package for Multiplatforms	5724-I20	Authorized User
IBM Host Access Client Package for iSeries	5724-I21	Authorized User

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License Information number

IBM Host Access Client Package for Multiplatforms	L-MBAR-A549B9
IBM Host Access Client Package for iSeries	L-MBAR-A549B9

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Yes

Limited warranty

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Volume orders (IVO)

No

Passport Advantage applies

Yes, information is available on the [Passport Advantage and Passport Advantage Express](#) website.

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System i Software Maintenance applies

No

Variable charges apply

No

Educational allowance available

Not applicable.

Statement of good security practices

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Prices

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