



IBM Sterling Connect:Direct for i5/OS Version 3.7.00

Release Notes



This edition applies to the 3.7.00 Version of IBM Sterling Connect:Direct for i5/OS and to all subsequent releases and modifications until otherwise indicated in new editions.

Before using this information and the product it supports, read the information in “Notices” on page 13.

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IBM Sterling Connect:Direct for i5/OS Version 3.7.00 Release Notes

The *IBM Sterling Connect:Direct for i5/OS Version 3.7.00 Release Notes* document supplements IBM® Sterling Connect:Direct® for i5/OS® version 3.7 and IBM Sterling Sterling Connect:Direct Secure Plus version 3.7 documentation. Release notes are updated with each release of the product and contain last-minute changes, as well as other information pertinent to installing and implementing Sterling Connect:Direct for i5/OS. Read the document in its entirety before installation.

The Sterling Connect:Direct for i5/OS package consists of the distribution media, a product key, and product publications.

Product Requirements

Sterling Connect:Direct for i5/OS requires the following hardware and software:

Component	Software and Hardware
Sterling Connect:Direct for i5/OS	OS/400 version 5, release 4 or later (V5R4)
	IBM Application System/400 (AS/400)
	Hardware that runs V5R4 or later such as IBM i for Power Systems including AS/400, iSeries, and System i
	CUM PTF package as provided by IBM with the operating system
	Disk storage required is 100 MB. However, the actual size depends on the size of a statistics file and others.
	The minimum memory requirement is 32 MB. However, main storage depends upon the number of users and sessions.
	Note: To verify the storage available on your system, use the WRKSYSSTS command. Check the amount of total system storage and the percentage of storage used. If the total amount needed for Sterling Connect:Direct is more than the amount of storage available on your system, you must free some system storage before proceeding.

Component	Software and Hardware
Sterling Connect:Direct Secure Plus for i5/OS	<ul style="list-style-type: none"> ♦ Sterling Connect:Direct for i5/OS version 3.6 or later ♦ All the software required for Sterling Connect:Direct for i5/OS version 3.6
Sterling Connect:Direct Secure Plus SSL and TLS protocols	<ul style="list-style-type: none"> ♦ Cryptographic Access Provider licensed program (5722-AC3) ♦ IBM HTTP Server for iSeries (5722-DG1) ♦ Base operating system option 34 - Digital Certificate Manager (DCM) ♦ Base operating system option 35 - Cryptographic Service Provider

Features and Enhancements

Sterling Connect:Direct for i5/OS version 3.7 has the following features and enhancements.

Version	Feature or Enhancement
Sterling Connect:Direct for i5/OS version 3.6	Supports IBM Sterling Secure Proxy, which enhances security when transferring data between trading partners.
	Provides support for specifying a network interface from the server to an adjacent node. Provides convenience by enabling you to define an NIC for output traffic in the netmap.
	Supports OS versions V5R3 and later.
	Supports IPv6 internet protocol, enabling you to: <ul style="list-style-type: none"> ♦ Specify a much larger address range than IPv4 in configurable fields. ♦ Listen for incoming client and server connections on either an IPv4 or IPv6 address.
	Provides for more secure encryption of data through new ciphers added to the Sterling Connect:Direct Secure Plus cipher suites list. Obsolete cipher suites are removed from the list.

Special Considerations

Following are the special considerations for Sterling Connect:Direct for i5/OS and Sterling Connect:Direct Secure Plus for i5/OS applications:

- ♦ To establish an SSL connection between Sterling Connect:Direct for i5/OS and Sterling Secure Proxy, use Sterling Secure Proxy Version 2.0 with Patch 5. TLS and non-secure connections between Sterling Connect:Direct for i5/OS and SSP are supported without the SSP patch.
- ♦ For compatibility with Sterling Connect:Direct Server Adapter, use IBM® Sterling Gentran Integration Suite (GIS) Version 4.3.00 with Patch 4305 or later.

Installation Notes

When you purchase Sterling Connect:Direct for i5/OS, Sterling Connect:Direct Secure Plus for i5/OS is installed. Before you install Sterling Connect:Direct for i5/OS, read all the information in this section and follow the guidelines.

- ◆ The Sterling Connect:Direct administrator who installs Sterling Connect:Direct for i5/OS must also start the product.
- ◆ If this is a new installation, review *IBM Sterling Connect:Direct for i5/OS Installation and Administration Guide* for pre-installation tasks.
- ◆ Complete any worksheets before installing Sterling Connect:Direct for i5/OS.
- ◆ Review your security configuration to ensure compatibility with Sterling Connect:Direct for i5/OS and Sterling Connect:Direct Secure Plus for i5/OS.
- ◆ Verify that you have the current updates.

Use Sterling Connect:Direct for i5/OS in a PowerHA Environment

- ◆ To use Sterling Connect:Direct for i5/OS in a PowerHA environment on the System i first set up the PowerHA for the iASP on the System i and then complete the following instructions to install Sterling Connect:Direct.
 1. Install Sterling Connect:Direct and apply maintenance as normal. For the Sterling Connect:Direct IP listen address, use the virtual failover address. Names below in *italics* are default names and can be changed during the installation.
 2. Sign on as *CDADMIN* and type the following commands:


```
ENDSBS CDSBDS *IMMED
CRTSAVF QGPL/CDHOLD
SAVLIB LIB(CDLIB) DEV(*SAVF) SAVF(QGPL/CDHOLD)
```
 3. Sign on, using a profile other than *CDADMIN*. The profile must have ADMIN authority, in order to make these changes. Type the following changes:

```
RNMOBJ OBJ(CDLIB) OBJTYPE(*LIB) NEWOBJ(CDLIB@OLD)
CRTLIB LIB(CDLIBS) TEXT('Connect:Direct in SysASP')
CRTDUPOBJ OBJ(*ALL) FROMLIB(CDLIB@OLD) OBJTYPE(*SBSD) TOLIB(CDLIBS)
CRTDUPOBJ OBJ(*ALL) FROMLIB(CDLIB@OLD) OBJTYPE(*JOB) TOLIB(CDLIBS)
SETASPGRP ASPGRP(<ASP_group>)
RSTLIB SAVLIB(CDLIB) DEV(*SAVF) SAVF(QGPL/CDHOLD) RSTASPDEV(<ASP_group>)
CHGJOB JOB(CDLIBS/CDSBDS) INLLIBL(CDLIB QTEMP QGPL CDLIBS)
INLASPGRP(<ASP_group>)
CHGJOB JOB(CDLIBS/CDJOB) INLLIBL(CDLIB QTEMP QGPL CDLIBS)
INLASPGRP(<ASP_group>)
CHGJOB JOB(CDLIBS/CDDEVACT) INLLIBL(CDLIB QTEMP QGPL CDLIBS)
INLASPGRP(<ASP_group>)
CPYF FROMFILE(CDLIB@OLD/APKEYF) TOFILE(CDLIBS/APKEYF) MBROPT(*REPLACE)
CRTFILE(*YES)
CHGUSRPRF USRPRF(CDADMIN) JOB(CDLIBS/CDJOB)
CHGSBSD SBSD(CDLIBS/CDSBDS) ASPGRP(<ASP_group>)
CHGAJE SBSD(CDLIBS/CDSBDS) JOB(CDSBDS) JOB(CDLIBS/CDSBDS)
CHGAJE SBSD(CDLIBS/CDSBDS) JOB(CDDEVACT) JOB(CDLIBS/CDDEVACT)
```

4. If desired, delete the library *CDLIB@OLD*.
5. Sign on as *CDADMIN*.
6. Change the *APKEY* file setting to *CDLIBS/APKEYF* using the command *WRKCDPARM*.
7. Use *STRCD* to start Connect:Direct

Upgrading to Sterling Connect:Direct for i5/OS Version 3.7

If you upgrade from an existing version of Sterling Connect:Direct for i5/OS, review the *Upgrading Sterling Connect:Direct for i5/OS* guide. If you are upgrading from an existing version of the Sterling Connect:Direct Secure Plus for i5/OS application, observe the following guidelines:

- ◆ You can continue to use the parameters file defined in an earlier version. It is not necessary to reconfigure trading partner definitions, if the trading partner uses the same protocol.
- ◆ If the previous version was the Export version, the STS authentication and signature keys will not work. You must regenerate them. Refer to *IBM Sterling Connect:Direct Secure Plus Implementation Guide*.

Maintenance Updates

Sterling Connect:Direct for i5/OS Version 3.7 contains all maintenance fixes applied to previous versions. Issues resolved for Version 3.7.00 follow.

SR Number	Explanation
1281867	Request to add check for CRYP=0 inbound FMH68 to mean not Sterling Connect:Direct Secure Plus.
1282336	Permanent Session Manager receives a MCH3402 error after sitting idle for awhile and a new process starts.
1301273	Request to add Sterling Connect:Direct Plex z/OS support to Sterling Connect:Direct for i5/OS.
1301628	When an error occurs on a Process, messages repeat in CDLOG and Statistics.
1306167	An inbound LU0 connection from Sterling Connect:Direct for HP NonStop produces a MCH3601 error because CRC checking is not valid on LU0.
1298494	An inbound process from Sterling Connect:Direct for HP NonStop to IFS ASCII file produces a MCH1211 error.
1304197	File error SVSJ013I on Sterling Connect:Direct for z/OS from CDSND is not reporting an error back to the CL program.
1309788	In DBCS, you cannot specify DEFAULT=A140, or DEFAULT=4040 instead of DEFAULT=0000 in the source member when using XTRAN()
1316195	The SPADMIN export of the STS key creates a file that causes an abnormal termination of the software on the mainframe when importing the file.

SR Number	Explanation
1316195	Sterling Connect:Direct for i5/OS SPADMIN creates the EXPORT file incorrectly on STS.
1306167	A pointer error on an LU0 inbound process occurs when i5/OS verifies Cyclic Redundancy Check.
1298494	When Sterling Connect:Direct for HP NonStop sends to Sterling Connect:Direct for i5/OS it produces an MCH1211 error.
1338491	Microsoft Windows sending multiple processes in one connection causes an APXS002I error.
1338467	Sending an empty file with Sterling Connect:Direct Secure Plus SSL/TLS active causes an MCH3601 error.
1338493	Request for support of Sterling Control Center version 3.0 monitoring.
1338944	CDSPLMON does not start. MCH3401 error splmon_init stmt 103 is produced.
1338986	Inbound Sterling Connect:Direct Secure Plus starts two Session Managers on a secure connection and transmits a file successfully, but produces error messages.
1339735	Inbound SSL connections from Sterling Connect:Direct for Microsoft Windows or UNIX to Sterling Connect:Direct for i5/OS fail and produce a CSPA202E -6996 error on the PNODE if client authentication is enabled at Sterling Connect:Direct for i5/OS.
1340174	Inbound from Sterling Connect:Direct for UNIX on UNIX fails to create MSGI information in statistics.
1340195	Problems occur with Sterling Connect:Direct Secure Plus STS when using *LCLNODE Secure Enabled = Y and Secure Enabled = N on remote netmap records.
1316172	Allow TEXTFILE in IFS to use something other than CRLF for record terminators.
1297537	Parameters to control the character set ID for IFS creates files instead of defaulting to the system CCSID.
1340432	Sterling Connect:Direct for i5/OS version 3.5.00 dependent LU62 connections to a remote Sterling Connect:Direct for z/OS fails.
1341455	A CDSND to a z/OS HFS file results in a SDAA048I syntax error on z/OS.
1179458	Allow Sterling Connect:Direct to handle DB2 files with fields for NULLS. Keyword ALWNULL.
1342676	Permanent Sessions Managers cause Sterling Connect:Direct Secure Plus failures using STS.
1342895	A RMTSYSTEM job produces an error QLICHGLL failed with CPF2184.
1342902	CDRCV to Sterling Connect:Direct for UNIX on UNIX does not create the MSGI information in statistics. It leaves the Process in WAIT WS state on Sterling Connect:Direct for UNIX.
1342167	Some Sterling Connect:Direct Secure Plus transfers fail between a Sterling Connect:Direct for UNIX and a Sterling Connect:Direct for i5/OS outbound node. The i5/OS transfer shows an CSPA203E error.
1342167	Transfers run slower after applying 504A.
1341517	CDSND COMPRESS(*EXT) sending from some IFS files using TEXTFILE(*YES) produces error ACOP252I.

SR Number	Explanation
1341715	Sending some IFS files using TEXTFILE(*YES) causes error AFLH803I - File I/O error occurred.
1135543	Request support for larger DSN beyond 64 characters.
1344707	Request to increase the maximum time allowed for RUNTASK Max Time to Wait [RUNTASKTIM] in the INITPARMS.
1345763	The SCPA000I message is repeated in the CDLOG and statistics.
1346471	A Process from Sterling Connect:Direct for UNIX with a PNAME greater then 22 characters causes a loop after FMH75.
1346592	CDPMGR ends abnormally and produces a MCH2602 RmslLockMiObject Lock request not given error message, but Sterling Connect:Direct continues to run.
1347240	Sterling Connect:Direct for z/OS reports statistics incorrectly for RECFM=FB when sending to iSterling Connect:Direct for 5/OS.
1348212	Error CSPA084E results when sending an IFS file with blank lines in text mode when Sterling Connect:Direct Secure Plus STS is used with a digital signature.
1349579	When transferring a 0 byte file from Sterling Connect:Direct for HP NonStop to i5/OS, the I/O Recs report information incorrectly.
1349257	Record count is incorrect in z/OS statistics, when copying from Sterling Connect:Direct for i5/OS to Sterling Connect:Direct for z/OS. The actual data is correct.
1350167	Sterling Connect:Direct for z/OS pulls from the IFS file causing an MCH error when DBLK=0 is sent in FMH71 from z/OS.
1351278	Large multiple gigabyte transfers cause the pointer error <i>Sterling Connect:Direct Secure Plus SSL/TLS is in use.</i>
1353671	Intermittent SSL handshake error CSPA003E occurs during file transmission between Mainframe (PNODE) and iSeries.
1352803	The feedback code from Sterling Connect:Direct for UNIX or Microsoft Windows is not displayed in Statistics.
1346841	When SSL/TLS is in use and a network connection is lost, restarting fails and produces a APSM007E error.
1338491	When Sterling Connect:Direct for Microsoft Windows sends multiple Processes in one connection to a Sterling Connect:Direct for i5/OS node, an ASMT015I error on the second Process occurs.
1355179	When SNDFFD(*YES) is used and the file field description is beyond the 12K limit an error message is not received.
1355528	After an upgrade, the Spool Monitor fails when sending a spool file to a GDG on Sterling Connect:Direct for z/OS and produces the error AFLH002I.
1353671	The error ASMT806I-Unknown sense code is received from an SSL connection on the SNODE.
1358560	Pulling a file from Sterling Connect:Direct for i5/OS sends back 3101 instead of SDE0210I.

SR Number	Explanation
1361490	After 608A is installed, Processes fail with ASMT015I and CPD0071 errors. The variable status.sec_xsys_init is in the wrong state.
1362459	Allow Sterling Connect:Direct for i5/OS to use user profiles with JOBDs containing more than 25 library entries.
1363442	Unwanted CSL* user spaces remain when running CDCLEANUP.
1363512	The CDTCPPL loops if the listen port is removed manually from NETSTAT *CNN.
1363763	The SPADMIN adds remote nodes as type 'L' (local) when a sync-add <F7> is used.
1364266	LOGIC=B functionality allows invalid combination of SI/SO transfers.
1358640	Checkpoint restart from z/OS to i5/OS creates duplicate records.
1365383	An invalid User Profile used in SNODEID causes RMYSTSEM to end abnormally. Invalid JOBD or invalid library in JOBD causes the issue.
1365707	An ASCII file with an extra 0D in the file, such as 0D0D25 in IFS, causes issues with EORCHAR.
1365500	Request to update the SLCU and DLCU XDR Keys, updated to 4 bytes long on VM system, on Sterling Connect:Direct for i5/OS.
1365724	After applying 705A, WRKCDUSR produces error CDE0317 when trying to add or change a user entry.
1365484	VM produces an error when restarting checkpoint, when sending multiple records in one record of the data buffer.
1365986	The WRKCDUSR produces the error CPF6A91 unmonitored by WRKUSRC2 when 1000 or more entries in the CDUSER file occurs.
1365383	If the SNODEID issues no JOBD or bad library in the JOBD commands, the RMTSYSTEM ends abnormally and CDSMGR hangs waiting for a response.
1367579	COPY to a fixed length file from a variable causes a ACOP070I RC=4 error, unlike other Sterling Connect:Direct platforms.
1368038	COPY 0 byte file from Sterling Connect:Direct for z/OS with COMPRESS causes a MCH3601 error. The second STEP fails.
1367616	After applying version 3.5.00 maintenance updates, merging the Sterling Connect:Direct Secure Plus parameters fail. Sending to the version 3.4.00 node results in the error CSPA080E.

Known Restrictions

Sterling Connect:Direct for i5/OS version 3.7 has the following restrictions:

- ◆ The minimum bytes you can specify in CKPTINV(n) is 1K. If you specify a value between 1 and 1023, the value becomes 1024 or 1K.
- ◆ Checkpointing and restarting of IFS files is not supported.

- ◆ Sterling Connect:Direct for i5/OS supports SSL_RSA_WITH_AES_256_CBC_SHA, and no longer supports RSA_EXPORT_WITH_RC2_CBC_40_MD5.
- ◆ Sterling Connect:Direct for i5/OS does not support V5R1 128-character passwords. Sterling Connect:Direct for i5/OS is limited to 10-character password for i5/OS profiles.
- ◆ Sterling Connect:Direct for i5/OS does not support the System/36 environment.
- ◆ You cannot upgrade from a version prior to version 3.5.00. To migrate from an earlier version, follow the instructions in *Installing Sterling Connect:Direct* in the *IBM Sterling Connect:Direct for i5/OS Installation and Administration Guide*.

Documentation Updates

No last-minute updates are required to the Sterling Connect:Direct for i5/OS version 3.7.00 documentation.

Sterling Connect:Direct for i5/OS Documentation

The Sterling Connect:Direct for i5/OS documentation, including supplemental documentation, is available on the product media.

Access to PDF files requires the latest version of Adobe Acrobat Reader, which you can download at www.adobe.com.

The Sterling Connect:Direct for i5/OS documentation consists of:

- ◆ *IBM Sterling Connect:Direct for i5/OS Installation and Administration Guide*
- ◆ *IBM Sterling Connect:Direct for i5/OS User's Guide*
- ◆ *Upgrading IBM Sterling Connect:Direct for i5/OS*
- ◆ *IBM Sterling Connect:Direct Secure Plus for i5/OS Implementation Guide*
- ◆ *Understanding IBM Sterling Connect:Direct Processes*
- ◆ *IBM Sterling Connect:Direct Compatibility and Connectivity Chart*
- ◆ *IBM Sterling Connect:Direct for i5/OS Version 3.6.00 Release Notes*

Information on Sterling Connect:Direct Processes is available from the IBM Sterling Connect:Direct Process Web site at <http://www.sterlingcommerce.com/documentation/processes/processhome.html>.

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