# HostDrive

## Automated Multi Platform File Transfer

XPS Software GmbH
Cross Platform Solutions
dare to be sophisticated

# HostDrive

## Multi platform file transfer

HostDrive is a multi platform queueing system enabling the automated exchange of files between different platforms with specific integration of the IBM mainframe.

HostDrive consists of two software components implementing the transfer and queueing functionality in cooperation.

On the mainframe HostDrive/z is used which is based on the same kernel as PrintEx, the IBM mainframe print services extender from XPS. The network component is implemented by the Java server application HostDrive/J.

Of course HostDrive can be operated without integration of an IBM mainframe. In this scenario only one or more HostDrive/J server components will communicate.

## Highlights

**Available for z/OS, z/VSE and for all platforms providing a Java Virtual Machine**

**Queueing system for bidirectional exchange of data between all supported platforms**

**Delivery guarantee**

**Monitoring**

**Access to CICS/TS and CICS/TD without programming**

**Direct reading and writing of VSAM/KSDS and VSAM/ESDS**

**Import data to JES2/JES3 (z/OS) and POWER (z/VSE) respectively**

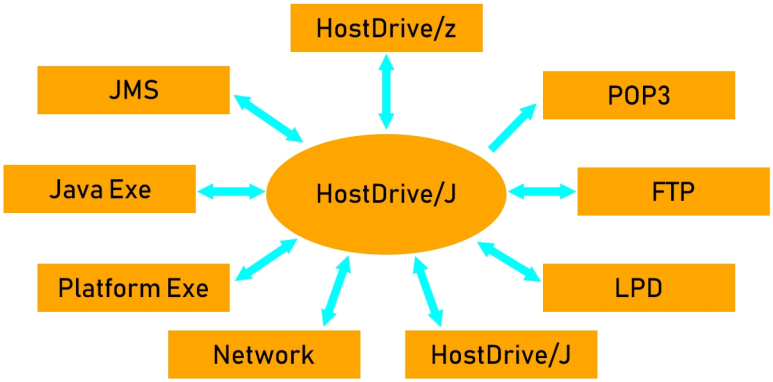
**Automatic translation of text data exchanged with a mainframe**

**Implicit data formatting e. g. using Cobol copy files**

**Support for FTP, LPD, JMS and e-mail on Java platforms**

## The concept

The following image shows the basic HostDrive concept.




## HostDrive/z - Mainframe component

On z/OS HostDrive/z will run in an own region and on z/VSE in an own partition respectively. Because TCP/IP as well as VTAM are supported, as a matter of principle HostDrive/z is able to communicate with arbitrary mainframe subsystems in order to transfer data.

A set of APPC adapter programs for CICS is included in HostDrive/z. These adapter programs can be used without any programming to read data from and write data to CICS/TS, CICS/TD as well as VSAM/KSDS and VSAM/ESDS. In addition HostDrive/z provides a number of additional interfaces enabling e.g. access to MACLIB-members on z/OS and library members on z/VSE.

Furthermore data can be directly stored in the particular spool system (JES2/JES3, POWER). A complete integration of the mainframe spool systems can be achieved by installing PrintEx from XPS for z/OS or z/VSE . For this purpose, specific interfaces permitting the communication between HostDrive/z and PrintEx have been developed by XPS.

# HostDrive/J - Java server component

HostDrive/J can be executed on any platform providing a Java virtual machine versioned 1.6 or newer. Besides this no other infrastructure is required. In particular no application server must be present in order to execute HostDrive/J.

Besides the possibility to communicate with a HostDrive/z installation on a mainframe, HostDrive/J supports various standard technologies such as FTP, LPD, JMS and POP3. Specific installation requirements can be addressed running platform specific executables or Java programs.

# Queueing

In order to support queueing functionality both components use technologies adapted to the underlying platform.

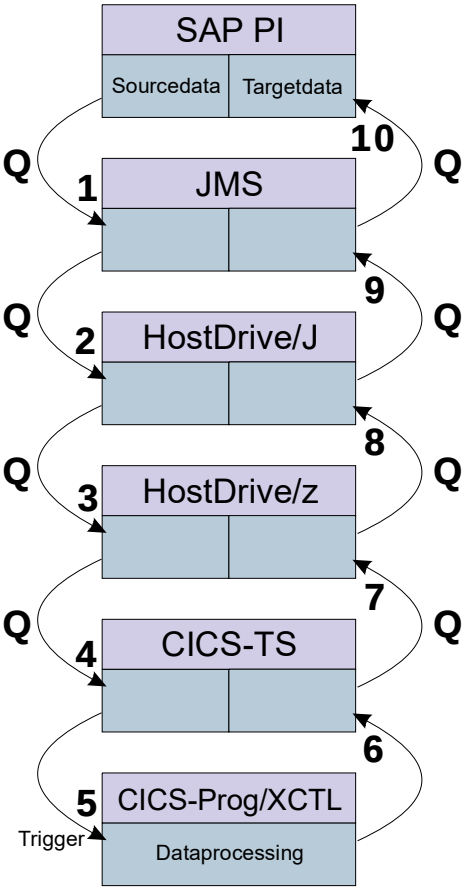
HostDrive/z stores data that can not be delivered because of a non reachable target system as long as necessary in an internal HFS file system until the target system is reachable again. Queued data will then be delivered to the target system for further processing.

For the same purpose HostDrive/J makes use of the file system of the underlying operating system as temporary storage.

The figure on the right side shows a possible path of execution given the case that data generated in a SAP PI installation shall be further processed by CICS and then be returned to SAP PI.

Steps marked with 'Q' indicate nodes that are able to queue the data if the required target system cannot be reached.

'Trigger' means that HostDrive/z will transfer control to a predefined program implementing the business logic after data has been saved to CICS-TS.




# HostDriveWorks

Besides the HostDrive server programs XPS offers an administration application implemented in Java called HostDriveWorks. HostDriveWorks can be run under the control of any Java runtime environment versioned 1.6 or better. In addition to the comfortable administration of HostDrive/J installations, HostDriveWorks can be used as a centralized monitoring tool for an arbitrary number of HostDrive/J servers.

Administrators will be notified in real time about important events in the monitored sysplex such as e. g. collapsed network connections or servers that are no longer reachable. A visual feedback about the state of a HostDrive/J installation is provided to the administrator through a graphical monitor panel in HostDriveWorks.

# Observer

All file transfers executed by the HostDrive application system can be protocolled in detail. For this purpose unique data records are stored and maintained in a MongoDB data base. HostDrive/J administrators can observe the status of file transfers in real time using HostDriveWorks' observer panel.

Moreover HostDriveWorks offers the possibility to execute queries against the MongoDB data base in order to generate file transfer lists filtered by various criteria such as (among many others) date/time, TCP/IP address or Jobname.

# More Products from XPS Software GmbH

## Host Connectivity

### JProtector - Programmable Java 3270/5250 Terminal and Printer Emulation

- Web-to-Host enabled
- Programmable using JavaBeans, OHIO (Java) and EHLLAPI (Win32)
- Remote host access over TCP/IP port 80 (Fireproof)
- Authentication, strong encryption and compression on demand

## Printing

### PrintEx - IBM Mainframe Print Services Extender

- Extended printing facilities for IBM z/OS and z/VSE
- Output on TCP/IP printers via LPR/LPD or direct sockets
- Dispatching print output as a PDF-attachment via e-mail
- On the fly data conversion to Postscript or PCL

## Cryptography

### CryptLib - Cryptographic API

- Available for MS Windows, Linux, IBM iSeries, IBM z/OS and IBM z/VSE
- Symmetric encryption: e. g. AES, (Triple)DES and Blowfish
- Asymmetric encryption with RSA
- X.509 certificates, S/MIME (PKCS#7), PKCS#12 private key

# Contact

XPS Software GmbH
Mühlanger 7
D-85777 Fahrenzhausen

Fon +49-(0)89-456989-0
Fax +49-(0)89-456989-19
Mail info@xps.biz
Web www.xps-software.com