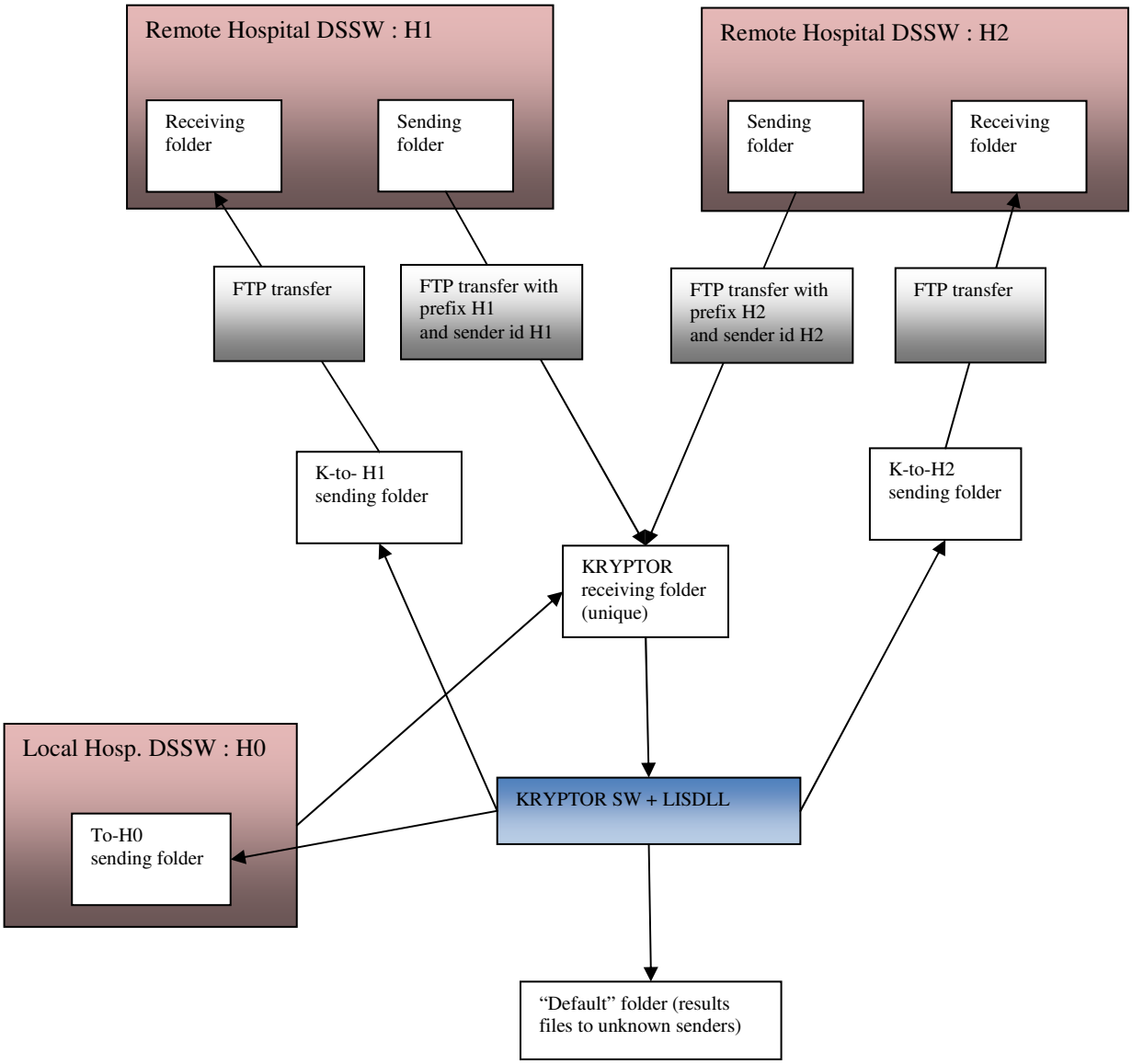
KRYPTOR MULTI-SITE CONNECTION PROCEDURE

A - Description of multi-sites connection:

- KRYPTOR analysers received test from local hospital, but also from many other hospitals (up to 50 remote sites is possible).
- There is an existing possibility to transfer files from and to remote hospitals networks via FTP service.
- The labeling of the tubes (sample id) is performed in local hospital, and sample id is entered in remote hospital LIS or Down's Syndrom Software (DSSW). Make sure identic sample id is not used in different hospitals.
- Query mode is not possible in case of multi-sites connection
- Remote LIS or DSSW then generates order traveling to Kryptor reception folder through FTP service.

The following architecture can be used (one KRYPTOR – one communication channel) :



The sender identification is made via the header of order files, under the condition that this header can be changed in each remote LIS or DSSW.

KRYPTOR LIS interface (LISDLL) has a unique folder for receiving orders, so each remote LIS or DSSW have to create request filename with specific prefix or suffix to avoid any sharing conflict.

It has as many sending folders as sites (remote + local).

The sender ids are memorized in the file KLIS.INI, with the corresponding path where to store the result files (from KRYPTOR to DSSW).

Sender id from a request file is stored in KRYPTOR "samples" database in "LabName" field.

When returning a result file, KRYPTOR checks if the "LabName" is in its list of remote files. If yes, file is copied in the corresponding result folder. If not, file is copied in "default" folder, so that test result is not completely lost, and diagnostic of uncomplete sites list can be made.

Note that the FTP part (in grey on above diagram) is under responsibility of hospital IT dpt.

Exchange protocol

Example of header, and description :

H|^~\&|||LIS2||ORM|||KRYPTOR||P|H1.2|19970901121314

Field nr	Information description
1	'H' for header description
2	Protocol characters
5	Name of sender
10	Name of receiver
12	Processing ID = (P)roduction
13	Protocol version (H1.2)
14	Date and time of the request – format YYYYMMDDHHMMSS

Field 5 (Sender Name) has to contain the sender ID. Due to database constraints, **sender ID is limited to 10 characters**.

B - Configuration of multi-sites connection:

To configurate the multi-sites connection, please install the KIM by following the Installation procedure for KIM from step 1 to step 8 if necessary (refer to procedure "Installation procedure KC-KC+-KclassicWin98").
Just adapt the configuration of the klis.ini file to add different path for each site result folder.

These following specific lines have to be added on klis.ini during the installation at Step 5 of the Installation procedure KC- KC+-KclassicWin98 for KIM.

Memorisation of sender ids and corresponding path in KLIS.INI

The remote site names and path are stored in LISCHANNEL0, or LISCHANNEL1 section depending on your configuration.

e.g. : set-up for sender ids "H0, H1" and "H2" on channel 0 :

```
[LISCHANNEL0]
HostRecPath=c:\klis\download
HostSendPath=c:\klis\upload
HostName=KRYPTOR
AnalyserName= LIS
ParsedDataFolder=c:\KLIS\ParsedData
```

H0=c:\klis\K-to-H0 path where to send data to LIS or Down's syndrome software named H0 (defined in the header of HPRIM file)

H1=c:\klis\K-to-H1
H2=c:\klis\K-to-H2

LOWRES=0
HIGHRES=999999999

e.g. : set-up for sender ids “H3” on channel 1 :

[LISCHANNEL1]
HostRecPath=c:\klis\from_FS
HostSendPath=c:\klis\to_FS
HostName=KRYPTOR
AnalyserName=FASTSCREEN
ParsedDataFolder=c:\klis\ParsedData

H3=c:\klis\K-to-H3

LOWRES=0
HIGHRES=999999999

[DOWNLOADTEST1]

[UPLOADTEST1]

The key names can be changed but has to be exactly the same as the sender Id in field 5 of request header.

There is no restriction on the name of the exchange folder.

Multi-site configuration can be done independently on one or both channels.