

Sante PACS Server

Integration with HIS/RIS software

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Integration with HIS/RIS software

The program lets the HIS/RIS programs open the studies of a patient to Sante DICOM Web Viewer for reviewing. The HIS/RIS software must query Sante PACS Server to get the tokens of the study and then must open Sante DICOM Web Viewer with these tokens as command line parameter.

Retrieve the token of a study

The HIS/RIS software must send to **HL7 port** of Sante PACS Server a message that contains the Study Instance UID of the desired study. The message must start with the character 10H and it must finish with the character ODH. Sante PACS Server will answer with a message that contains the token of the study. This message will start with the character 10H and it will finish with the character ODH as well. The token of a study is permanent and it can be stored from HIS/RIS software for later use.

Examples

The HIS/RIS software sends the message that contains the Study Instance UID:

```
10H1.2.826.0.1.3748527.1.4.2.0.20181120.185921.384642ODH
```

and it receives from Sante PACS Server the answer that contains the token of the study:

```
10HJHJ89ZQBkySrgt9f380Yic5wyC8YVO41pLPNesa5shYnmsl1DOXVF9eNK5SVwlg6ODH
```

Retrieve the token of the studies of a patient

The HIS/RIS software must send to **HL7 port** of Sante PACS Server a message that contains the Patient ID of the desired patient. The message must start with the character 10H and it must finish with the character ODH. Sante PACS Server will answer with a message that contains a list with pairs of Study Instance UID and token of the studies of the patient. Every Study Instance UID and every token in the list ends with the character ODH. This message will start with the character 10H and it will finish with the character ODH as well. Because every token ends with the character ODH, the message ends with **two ODH characters**.

Examples

The HIS/RIS software sends the message that contains the Patient UID:

```
10HID200631zw609ODH
```

and it receives from Sante PACS Server the answer that contains the pairs UID/token of the studies:

```
10H1.2.840.113619.2.55.3.2831173124.78.1375418120.812ODH
H4sTZJQ70QsxO9M633kSm9ES8wUexlW5aaoZqJuuot88Cu1QLkIYe38fR4R42IR4ODH
1.2.840.113619.2.55.3.2831173124.78.1375418120.813ODH
H0QHlKw2RbpyVCTSrmP4xni2U0IgcEfogLK5bKaEV6Gg655ru1Kr76X770eIRhhL0DH
1.2.840.113619.2.55.3.2831173124.78.1375418120.814ODH
HKx1erewwPpyBhAygMTmKHBfVlWcuqkT78r3fjiVUcM4gbB9XhsojOA15Qj9MWM0DH0DH
```

Usage of a token for loading of the study in Sante DICOM Web Viewer

Sante DICOM Web Viewer accepts in the command line a parameter of the form:

```
sante://download?url=[server url]:[server port]&ssl=[yes|no]&token=[token of the study]
```

where:

server url: it can be an IP address like 127.0.0.1, 192.168.1.2, or a valid ICANN name like mycompany.com

server port: the port of the built-in web server of Sante PACS Server, the default port is 3000

ssl: this parameter can have one of two values, **yes** if the server supports ssl connections or **no** if it does not

token: the token of the study

Examples of usage of the token:

Direct call of Sante DICOM Web Viewer:

```
"C:\Program Files\Santesoft\Sante DICOM Web Viewer\Sante DICOM Web Viewer.exe"
```

```
"sante://download?url=127.0.0.1:3000&ssl=no&token=rXplcx6FHk9KlrZs18j1p77rGy881TAOmsjAyLwSW3gRauyKNGwrVvhagXaK69Gs"
```

```
"C:\Program Files\Santesoft\Sante DICOM Web Viewer\Sante DICOM Web Viewer.exe"
```

```
"sante://download?url=192.168.1.2:3000&ssl=no&token=rXplcx6FHk9KlrZs18j1p77rGy881TAOmsjAyLwSW3gRauyKNGwrVvhagXaK69Gs"
```

```
"C:\Program Files\Santesoft\Sante DICOM Web Viewer\Sante DICOM Web Viewer.exe"
```

```
"sante://download?url=mycompany.com:3000&ssl=yes&token=rXplcx6FHk9KlrZs18j1p77rGy881TAOmsjAyLwSW3gRauyKNGwrVvhagXaK69Gs"
```

As a link within a web page

```
<a  
href="sante://download?url=127.0.0.1:3000&ssl=no&token=rXplcx6FHk9KlrZs18j1p77rGy881TAOmsjAyLwSW3gRauyKNGwrVvhagXaK69Gs">Open this study</a>
```

```
<a  
href="sante://download?url=192.168.1.2:3000&ssl=no&token=rXplcx6FHk9KlrZs18j1p77rGy881TAOmsjAyLwSW3gRauyKNGwrVvhagXaK69Gs">Open this study</a>
```

```
<a  
href="sante://download?url=mycompany.com:3000&ssl=yes&token=rXplcx6FHk9KlrZs18j1p77rGy881TAOmsjAyLwSW3gRauyKNGwrVvhagXaK69Gs">Open this study</a>
```