

# XBRIDGE

The next generation in connectivity, allowing easy integration between Xstrahl systems and 3rd party clinical information systems.

XBridge offers Xstrahl users the ability to communicate with 3rd party clinical information systems, enabling data import of patient demographics and export of treatment reports, ensuring traceability throughout a patient's treatment.

## XBRIDGE

- Connectivity solution via the major data interchange standards: DICOM, HL7 and GDT. Other standards can be provided on request.
- Installation of the latest version of the Xstrahl patient management system, Concerto. Designed to provide a comprehensive yet simple workflow for the creation and treatment of your patients.
- If applicable, upgrading existing Xstrahl hardware from analogue to digital technology.



XBridge via the Xstrahl patient management system, Concerto, allows users to communicate with 3rd party clinical information systems. The information below describes the software and different connectivity pathways.

## CONCERTO

Concerto has been designed to provide a comprehensive yet simple workflow for the creation of your patients treatment workload. X-ray therapy is utilised for a wide range of clinical conditions, each with a unique patient prescription and treatment position, the ability to link images to each treatment field provides a clinical record of all delivered exposures. Concerto provides a simple and easy method to recall and create new treatment fields for patients with multiple fields. Concerto software will create a treatment report following treatment of a patient, this can be printed from within Concerto.

### Software Features

- Enables the clinician to have patient pictures alongside patient information.
- Ability to import treatment images.
- Capable of running multiple languages.
- Ability to run treatment exposures and a choice of warm ups.
- Patient information is stored in the system under a unique ID.
- Each operator uses their unique user name and password to log on. Offering enhanced level of security and audit.
- Ability to upload onto Client server or Local database.

**There are two pathways to achieve connectivity with XBridge. Concerto Direct and Concerto with XLoop Sync.**

## CONCERTO DIRECT

XBridge will allow authorised users to integrate with 3rd party clinical information systems through the Concerto Direct pathway. Enabling the importation of patient lists and treatment plans.

A valid ARIA SQL user licence allows Concerto to connect through a special dedicated SQL connection between Concerto and ARIA v10, v11 and v13. Utilizing this pathway allows the treatment report to be sent directly to ARIA as a PDF file.

The Concerto Direct pathway is the most efficient Xstrahl connectivity solution and is suitable for users who currently have the latest Xstrahl therapy panel (TP2) and seek connection to ARIA v10, v11 and v13 oncology information systems.



## CONCERTO WITH XLOOP SYNC

Concerto with XLoop Sync connects Xstrahl systems to ARIA, MOSAIQ, Medavis and many other Oncology/Patient Information Systems. XLoop “receives” data from various interchange standards such as DICOM and HL7, checks it and if valid forwards the data to the XBeam planning system or Concerto in one clearly defined XML format. Data safety can be achieved through optional encryption during transportation and is checksum protected. The software also enables the automatic creation of a PDF file fraction treatment report that can be imported into a patient information system and attached electronically to a patient folder, valid when an XLoop licence is purchased.

Information received is verified, filtered and forwarded to XBeam to create treatment protocols and to Concerto to treat patients.

The Concerto with XLoop Sync pathway is suitable for users who currently have the latest Xstrahl therapy panel (TP2) and have connection to ARIA, MOSAIQ, Medavis, Medistar and WinRadiologie oncology information systems. XLoop software package will be used to connect to oncology information systems via the following data interchange standards:

- DICOM Modality Worklist to query and retrieve patient demographic and schedule related information.
- DICOM C-FIND on a patient-root or study-root level to query and retrieve basic patient demographic information.
- HL7 v2.x to receive messages by file or as network stream containing patient demographic and schedule related information.
- GDT v2.1 or v3.0 to receive messages by file containing patient demographic information.
- Other standards can be provided on request.

### Software Features

Along with the software features highlighted under Concerto Direct, Xloop Sync also includes the following:

- Simple installation on Windows 7, 8.1 and 10.
- Easy and flexible setup.
- Transparent and reproducible usage.
- Fast data transfer.
- Ability to adapt and extend the software to the customer’s needs.

Using XLoop, Concerto can integrate with ARIA, MOSAIQ, Medavis, Medistar, WinRadiologie, and many others that have relevant interchange standards enabled.

## FOR EXISTING XSTRAHL CUSTOMERS WITH THERAPY PANEL VERSION 1 (TP1) XBRIDGE INCLUDES:

### Hardware Upgrade

An Xstrahl hardware upgrade includes replacing the analogue Therapy Panel (TP1) unit with a digital PC and operator pod. Console control unit (CCU) and interfacng cables are also updated.

Replacement Components:

- TP1 unit replaced with PC and operator pod (System controlled using Microsoft Windows application).
- Operator 'Pod' enables exposure controls ON and OFF.
- Central Control Unit (CCU) and interfacng cables (Interfacng with existing TP1 electrical interfaces).

### Fisica

The interface between the physicist and the Xstrahl system hardware.

Updating from TP1 to XBridge allows the user to access Fisica, a password controlled user level application which enables configuration of the therapy panel system.

Main benefits of Fisica:

- Calibrates system filters and applicators.
- Conducts and records warm-up exposure, calibration and QA exposures.
- Database for patient and exposure information.
- Records every exposure given.
- All treatment data including any field and positioning information is recorded and available for printing at any time.
- Daily log of patient treatments on the system.
- Treatment prescription by patient.
- Patient summary – summary of all treatments for a given patient.
- System summary – record of all treatments over a period of time.
- Error logs – allows easy diagnosis of fault conditions.

## ADDITIONAL SOFTWARE SOLUTIONS

### XBeam, Xstrahl Treatment Planning Software

XBeam allows the user to calculate, run a protocol and export therapy plans for exposures on Xstrahl systems. Dosimetric information that has to be entered by the user is the base for the exposure calculation. The user only needs to specify depth dose data and dose rate information per combination of treatment device, applicator and filter. The resulting protocol shows all relevant information for planning. XBeam is installed locally and uses local data storage.

XLoop can integrate with XBeam by forwarding the retrieved patient demographic data to XBeam to support the easy, fast and safe creation of treatment plans.



For over 30 years Xstrahl employees have been shaping the development of superficial and orthovoltage therapies. Responding to very real clinical need and drawing on the knowledge and expertise of healthcare professionals. We are committed to providing innovative radiotherapy solutions that deliver positive patient outcomes.

For more information on the next generation of connectivity, XBridge, or upgrading your existing Xstrahl system please contact the Xstrahl Medical team.

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