



# WINCAN

## Quick Guide

Version: 2.2

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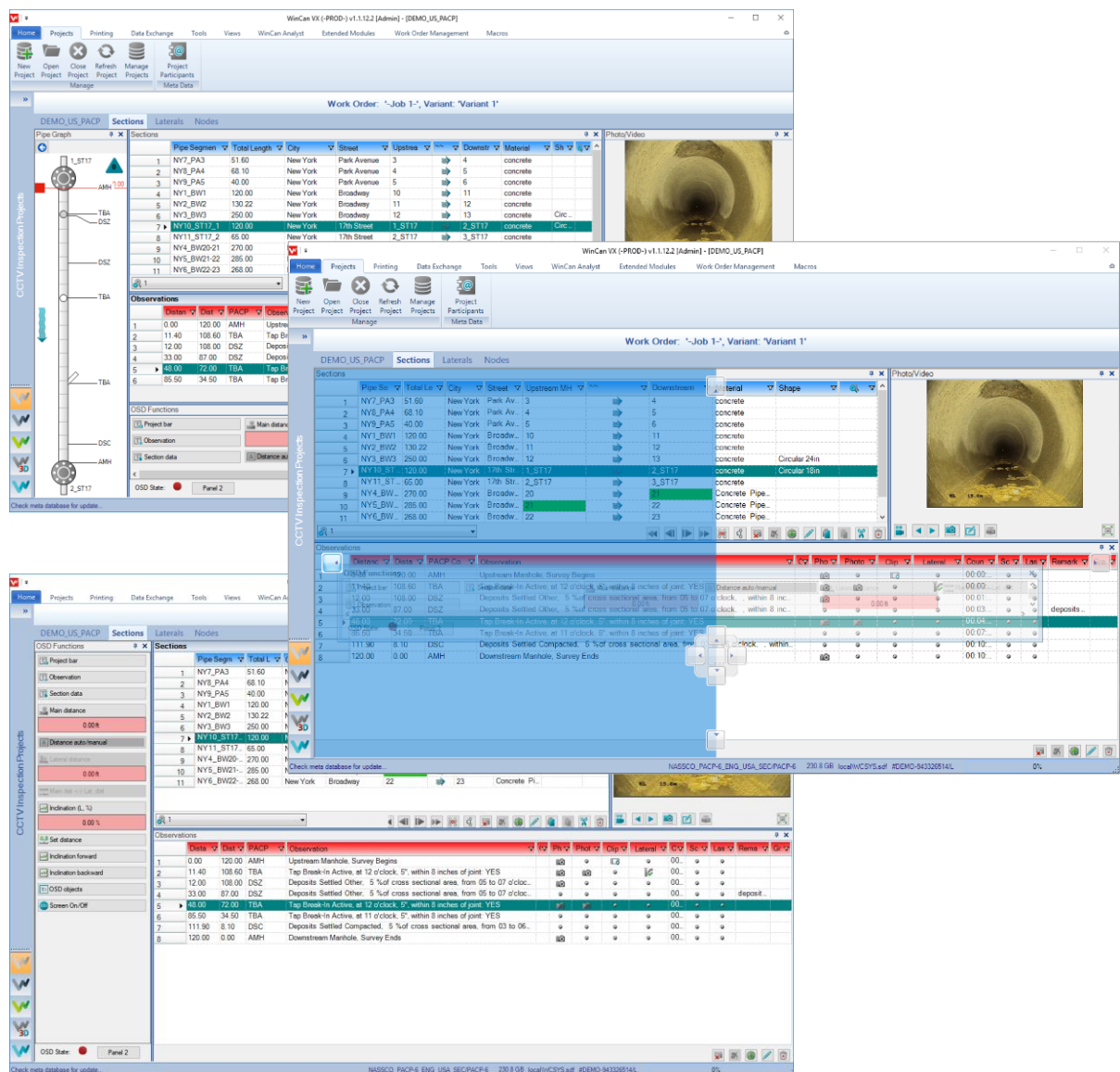
# 1 Introduction

WinCanVX is a special software application to gather data from pipeline inspections done with camera robots. The application is finally providing you easy readable reports implying pictures and video clips taken/recorded directly via the LiveVideo signal.

Furthermore inclination data, section/manhole sketches and other kinds of information can be assigned to the corresponding pipe sections.


**The present guide is giving you a quick overview of the basic work flow operators must know to get a report that contains the most important inspection data.**

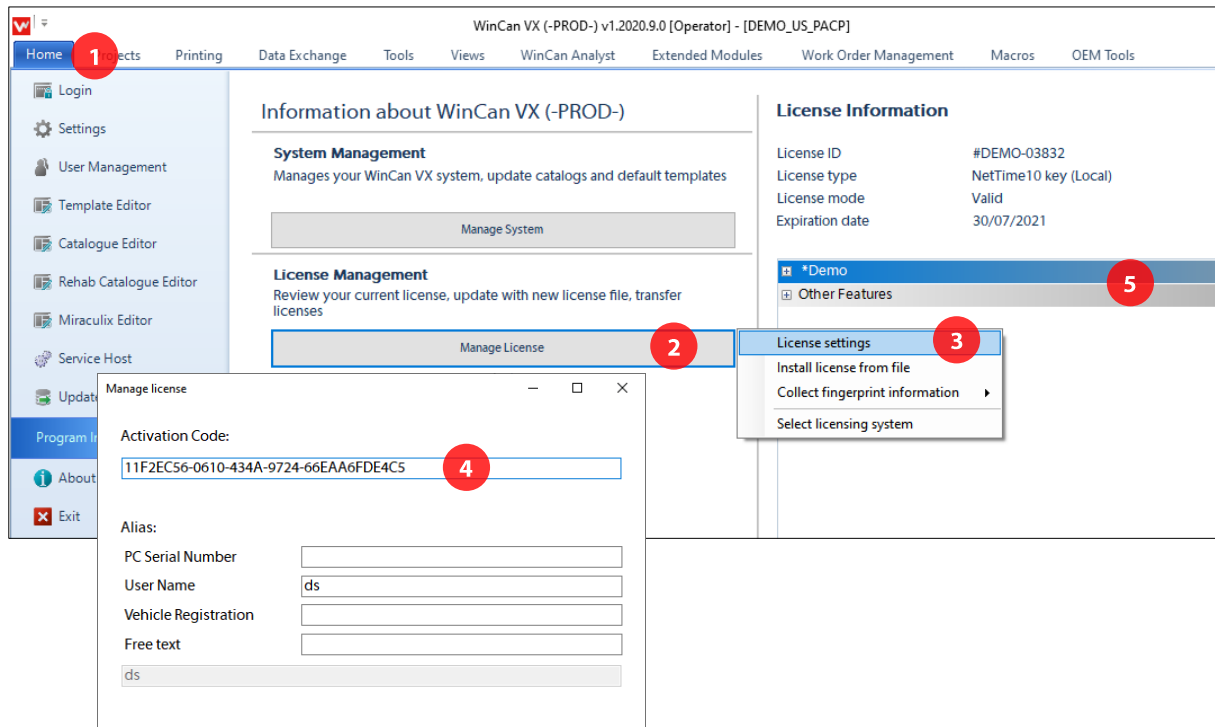
Unlike in previous versions WinCan VX is providing a main interface split into **different working panels** that can all be moved freely or individually hidden and thus rearranged on one or several screens. A built-in **positioning wizard** always selects that spot on the screen where you actually move the preferred panel keeping the left mouse key pressed:



Once you have rearranged the panels according to your personal needs for the acquisition of main and lateral sections (satellites) or manholes this individual view (profile) can easily be saved for further WinCanVX sessions via the tab *Views*. The main interface (group of panels) as well as each single panel of course can be maximized to full screen size.

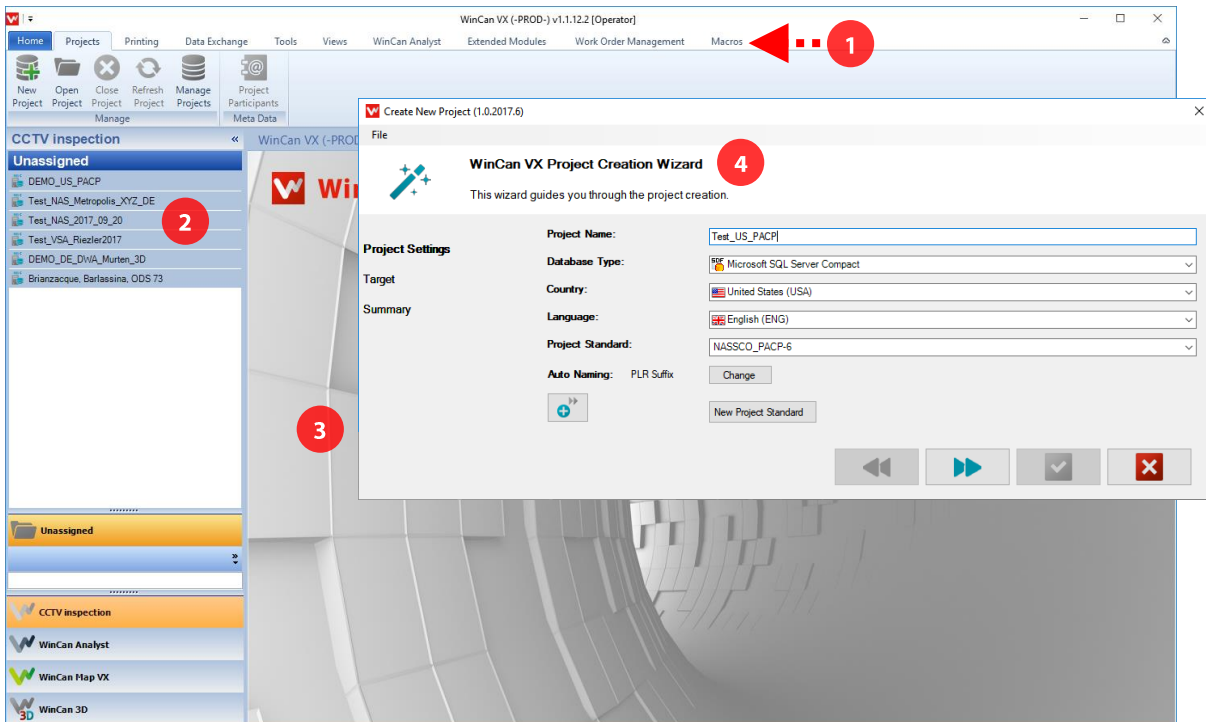
## 2 Launching WinCan VX:

Double-click on the desktop icon  in order to launch WinCan VX. First get your personal license code activated (4) using the tab command *Home > Manage License > License settings* (1,2,3):



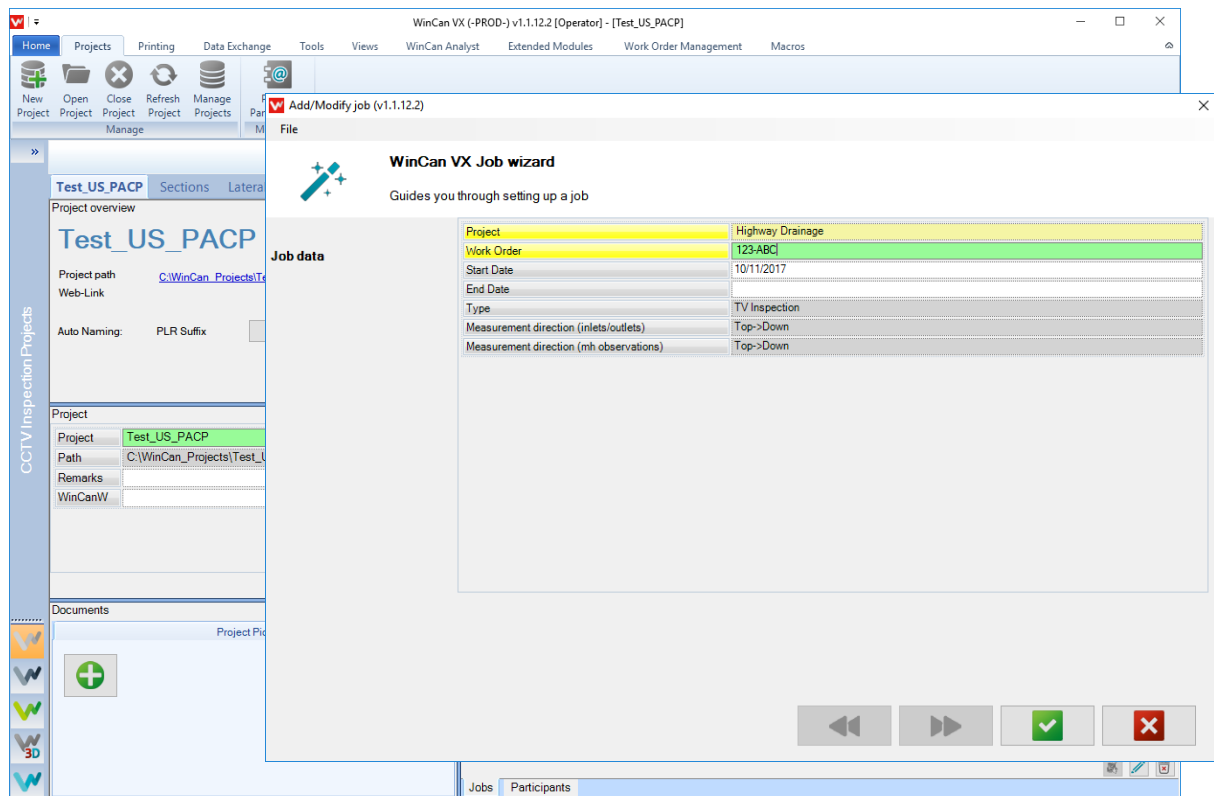
All the software modules and functionalities included in the licence package you purchased are activated from now (5).

The main interface is showing you a ribbon bar at the top, subdivided into different tabs (2), a list of the recently created projects (3) and an empty area (4) to display the section/inspection data after a project has been loaded:



Simply click on the command button *New Project* to create a new project: a wizard (4) then is going to guide you stepwise through the procedure.

Before you are able to start with the survey, the wizard asks you to enter the job data first. The yellow fields require a data input whereas the grey fields can remain empty:



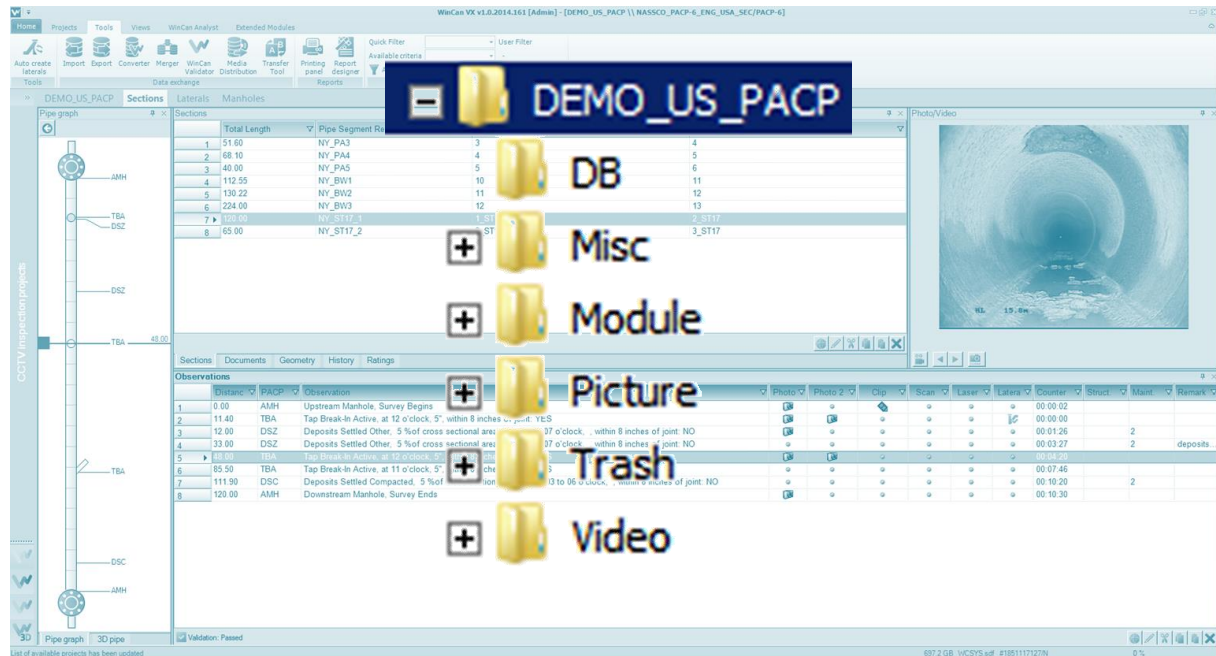
The image shows the WinCan VX Job wizard dialog box. The title bar reads "WinCan VX (-PROD-) v1.1.12.2 [Operator] - [Test\_US\_PACP]". The main window has a menu bar with "Home", "Projects", "Printing", "Data Exchange", "Tools", "Views", "WinCan Analyst", "Extended Modules", "Work Order Management", and "Macros". Below the menu bar is a toolbar with icons for "New Project", "Open Project", "Close Project", "Refresh Project", and "Manage Projects". The main area is titled "WinCan VX Job wizard" and "Guides you through setting up a job". It contains a "Job data" section with a table of fields. The "Project" and "Work Order" fields are highlighted in yellow, indicating they require input. The "Start Date" and "End Date" fields are highlighted in green, indicating they are optional. The "Type", "Measurement direction (inlets/outlets)", and "Measurement direction (mh observations)" fields are highlighted in grey, indicating they are optional. The "Project" field contains the text "Highway Drainage". The "Work Order" field contains the text "123-ABC". The "Start Date" field contains the text "10/11/2017". The "End Date" field is empty. The "Type" field contains the text "TV Inspection". The "Measurement direction (inlets/outlets)" field contains the text "Top->Down". The "Measurement direction (mh observations)" field contains the text "Top->Down". At the bottom right of the dialog box are four buttons: a back arrow, a forward arrow, a green checkmark, and a red X.

Field	Value
Project	Highway Drainage
Work Order	123-ABC
Start Date	10/11/2017
End Date	
Type	TV Inspection
Measurement direction (inlets/outlets)	Top->Down
Measurement direction (mh observations)	Top->Down








This information is crucial as all inspections are assigned to a job and not to a project directly. A project on the other hand always contains just one single job (1 Project = 1 Job).

### 3 Entering project data:

Switch to the tab Sections to start with the survey. All data (i.e. section, inspection and observation records as well as media data) are saved continuously within the folder structure, which is administered in the background by WinCanVX:



The folder structure consists on a main folder and a group of sub-folders; the most important ones are listed below:

 <b>DEMO_US_PACP</b>	
 <b>DB</b>	Sub-folder, that contains the databases with the project as well as the assigned address data (i.e. *_Meta.sdf).
 <b>Misc</b>	Sub-folder, that contains the PDF files (Misc\Docu).
 <b>Module</b>	
 <b>Picture</b>	Sub-folder with all section/manhole photos linked to the current project.
 <b>Trash</b>	Sub-folder, that contains project data and media files that have been deleted from the current project.
 <b>Video</b>	Sub-folder with all section/manhole clips linked to the current project.

## 4 WinCan VX; Main Interface for Section Survey

WinCan VX (-PROD-) v1.1.12.2 [Operator] - [DEMO\_US\_PACP]

Home Projects Printing Data Exchange Tools Views WinCan Analyst Extended Modules Work Order Management Macros

New Project Open Project Close Project Refresh Project Manage Project Project Participants Meta Data

Tab bar (ribbon bar) containing all user commands

Object tabs showing the categories of the objects (sections, laterals, manholes) that can be surveyed.

Windows control icons: minimize, maximize, close, hide/unhide tab bar.

Click on the lateral or the manhole symbol in the pipe graph to jump to that specific object (lateral, node).

Right click in the section panel and click here to create a new section.

Right click in the observation panel and click here to create a new observation.

Information about free disk space on the hard drive the current project is located on.

226.4 GB

Pipe Segment R	Total Len	City	Street	Upstream	Downstream	Material	Shape
1 NY7_PA3	51.60	New York	Park Avenue	3	4	concrete	
2 NY8_PA4	68.10	New York	Park Avenue	4	5	concrete	
3 NY9_PA5	40.00	New York	Park Avenue	5			
4 NY1_BW1	120.00	New York	Broadway	10			
5 NY2_BW2	130.22	New York	Broadway	11			
6 NY3_BW3	250.00	New York	Broadway	12			
7 NY10_ST17_1	120.00	New York	17th Street	1_ST17			
8 NY11_ST17_2	65.00	New York	17th Street	2_ST17			
9 NY4_BW20-21	270.00	New York	Broadway	20			
10 NY5_BW21-22	285.00	New York	Broadway	21			
11 NY6_BW22-23	268.00	New York	Broadway	22			

Distance	Distanc	PACP	Observation	CD1	Photo	Photo	Clip	Lateral	Count	Scan	Laser	Remarks	Grad
1	0.00	120.00	AMH	Upstream Manhole, Survey Begins					00:00:02				
2	11.40	108.60	TBA	Tap Break-In Active, at 12 o'clock, 5", within 8 inches of joint: YES					00:00:00				
3	12.00	108.00	DSZ	Deposits Settled Other, 5 % of cross sectional area, from 05 to 07 o'clock, . within 8 inches of...					00:01:26				
4	33.00	87.00	DSZ	Deposits Settled Other, 5 % of cross sectional area, from 05 to 07 o'clock, . within 8 inches of...					00:03:27			deposits S...	
5	48.00	72.00	TBA	Tap Break-In Active, at 12 o'clock, 5", within 8 inches of joint: YES					00:04:20				
6	85.50	34.50	TBA	Tap Break-In Active, at 11 o'clock, 5", within 8 inches of joint: YES					00:07:46				
7	111.90	8.10	DSC	Deposits Settled Compacted, 5 % of cross sectional area, from 03 to 06 o'clock, . within 8 inches of...					00:10:20				
8	120.00	0.00	AMH	Downstream Manhole, Survey Ends					00:10:30				

OSD Functions

Project bar Main distance Lateral distance Inclination (L. %) Inclination forward Screen On/Off

Observation 0.00 ft 0.00 ft 0.00 % Inclination backward

Section data Distance auto/manual Main dist <-> Lat. dist 0.5 Set distance OSD objects

OSD State: Panel 2



## 5 WinCan VX; Main Interface for Lateral Survey

WinCan VX (-PROD-) v1.1.12.2 [Operator] - [DEMO\_US\_PACP]

Home Projects Printing Data Exchange Tools Views WinCan Analyst Extended Modules Work Order Management Macros

New Project Open Project Close Project Refresh Project Manage Projects Project Participants

Work Order: '-Job 1-', Variant: 'Variant 1'

DEMO\_US\_PACP Sections Laterals Nodes

Pipe Graph

CCTV Inspection Projects

SAT1 AMH

Sections

	Pipe Segment R	Total Length	City	Street	Upstream	Downstream	Material	Profile
1	NY_ST17_1	35.00	New York	17th Street	WC	SAT1	Polyvinyl Chloride	
2	NY_BW12_13	20.00	New York	Broadway	Lav1	SAT1	Polyvinyl Chloride	
3	NY_BW12_13	20.00	New York	Broadway	Lav2	SAT2	Polyvinyl Chloride	
4	NY_BW12_13	20.00	New York	Broadway	Lav3	SAT3	Polyvinyl Chloride	
5	NY_BW12_13	20.00	New York	Broadway	Lav4	SAT4	Polyvinyl Chloride	
6	NY_BW12_13	20.00	New York	Broadway	Lav5	SAT5	Polyvinyl Chloride	
7	NY_BW12_13	20.00	New York	Broadway	Lav6	SAT6	Polyvinyl Chloride	
8	NY_BW12_13	25.00	New York	Broadway	Lav7	SAT7	Polyvinyl Chloride	
9	NY_BW12_13	26.00	New York	Broadway	Lav8	SAT8	Polyvinyl Chloride	
10	NY_BW12_13	27.00	New York	Broadway	Lav9	SAT9	Polyvinyl Chloride	

Photo/Video

Hit this arrow button to jump back to the section the current lateral is linked to.

Observations

	Distance	Distance -	LACP Code	Observation	CD	Photo 1	Photo 2	Clip	Lateral	Counter	Scan	Laser	Remarks
1	0.00	30.00	AMH	Downstream Manhole, Survey Begins						00:00:00			START: lateral inspection
2	17.00	13.00	D	Deformed, 10 %						00:01:10			
3	20.00	10.00	TS	Tap Saddle, at 02 o'clock, 5", within 8 inches of joint: NO						00:01:23			
4	24.00	6.00	VZ	Vermin Other, quantity: -, within 8 inches of joint: NO, 2						00:03:22			species cannot be determined
5	26.00	4.00	MSC	Shape or Size Change, 8", 5"						00:04:23			
6	30.00	0.00	OBZ	Obstacles Other, 100 % of cross sectional area, from 12 to 12 o'clock						00:04:41			
7	30.00	0.00	MSA	Survey Abandoned						00:05:40			due to obstacle

OSD Functions

Project bar Main distance Lateral distance Inclination (L, %) Inclination forward Screen On/Off

Observation 0.00 ft 0.00 ft 0.00 % Inclination backward

Section data Distance auto/manual Main dist <> Lat. dist 0.5 Set distance OSD objects

OSD State: Panel 2

Check meta database for update...

NASSCO\_LACP-6\_ENG\_USA\_LAT/LACP-6 226.4 GB local\WCSYS.sdf #DEMO-943326514/L 0%



## 6 WinCan VX; Main Interface for Manhole Survey

WinCan VX (-PROD-) v1.1.12.2 [Operator] - [DEMO\_US\_PACP]

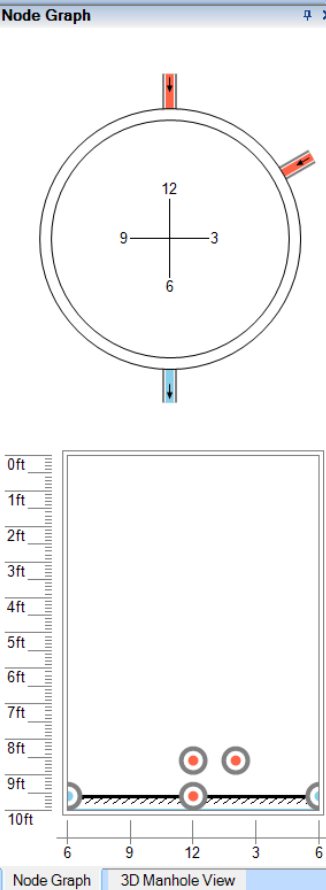
Home Projects Printing Data Exchange Tools Views WinCan Analyst Extended Modules Work Order Management Macros

New Project Open Project Close Project Refresh Project Manage Projects Project Participants Meta Data

Work Order: '-Job 1-', Variant: 'Variant 1'

DEMO\_US\_PACP Sections Laterals Nodes


Node Graph



Nodes

	Manhole Numbe	Access Type	MH Use	Year Built	Rim To Invert [ft]	City	Street
2	WC					New York	17th Street
3	3				8.70	New York	Park Avenue
4	Lav1					New York	Broadway
5	SAT2					New York	
6	4				10.00	New York	Park Avenue
7	5				10.50	New York	Park Avenue
8	SAT3					New York	
9	Lav2					New York	Broadway
10	Lav3					New York	Broadway
11	SAT4					New York	
12	6				9.00	New York	Park Avenue
13	10					New York	Broadway
14	SAT5					New York	

Photo/Video



Inlets/Outlets

No.	Pipe ID	Type	Depth [ft]	Clock Position	Material	Shape	Dia/Height [inch]	Width [inch]	Pipe Condition	Comments
4		Inlet	10.0	12 o'clock	concrete					
4		Inlet	9.0	12 o'clock	concrete					
4	9	Inlet	9.0	2 o'clock	pvc					
4		Outlet	10.0	6 o'clock	concrete					

Inlets/Outlets Parts

Observations

	MH Component	MACP Code	Depth	Observation	Clip	Time	Scan	Photo 1	Photo 2	Remark
1		M	-1.7	no damage						
2		SE05	0.0	steps are missing						

Node Graph 3D Manhole View

Observations OSD Functions

Check meta database for update...

NASSCO\_MACP-6\_ENG\_USA\_NOD/MACP-6-Level1 226.4 GB local\WCSYS.sdf #DEMO-943326514/L 0%

## 7 Entering Section and Inspection Data

Highlight a **section**, **lateral** or a **manhole** and double click on it. This is going to open the input mask below, where you can enter all the data needed for the current object. Fields highlighted in YELLOW are mandatory and require data entry:

WinCan VX (-PROD-) v1.1.12.2 [Operator] - [DEMO\_US\_PACP]

Home Projects Printing Data Exchange Tools Views WinCan Analyst Extended Modules Work Order Management Macros

New Project Open Project Close Project Refresh Project Manage Projects Project Participants Manage Meta Data

DEMO\_US\_PACP Sections Laterals Nodes

**Sections**

Nr.	8
Pipe Segment Reference	NY10_ST17_1
City	New York
Street	17th Street
PO Number	
Location Details	
Location Code	Main highway – urban
Owner	
Drainage Area	
Upstream MH	1_ST17
Up Rim to Invert	
Up Grade to Invert	
Up Rim to Grade	
Downstream MH	2_ST17
Down Rim to Invert	
Down Grade to Invert	
Down Rim to Grade	
Sewer Use	Combined
Material	concrete
Lining Method	
Shape	Circular
Height	18
Width	
Pipe Joint Length	
Total Length	120.0
Year Laid	
Year Renewed	
Sewer Category	
Easting	

**Inspections**

Length Surveyed	120.0
Surveyed By	J. Kirby
Certificate Number	6
Camera	
Project	Auto created job from v8 project
Customer	
Work Order	1
Date	19/01/2010
Time	
Direction	Downstream
Flow Control	
Media Label	
Purpose	
Pre-Cleaning	Heavy Cleaning
Date Cleaned	
Weather	
Sheet Number	
Pressure Value	
Inspection completed	<input checked="" type="checkbox"/>
Additional Info	

**Inspection fields**

Work Order	Purpose	Inspection Date	Inspection Time	Inspection completed	Inspection aborted
1		19/01/2010		<input checked="" type="checkbox"/>	<input type="checkbox"/>

**Section fields**

**Number of inspections for the current section**

Check meta database for update...

NASSCO\_PACP-6\_ENG\_USA\_SEC/PACP-6 226.4 GB local\WCSYS.sdf #DEMO-943326514/L 0%

## 8 Entering Observations via Damage Catalogues

The structure of damage catalogues strongly depends upon the standards that are defined by independent authorities. The example below shows an excerpt of the catalogue PACP-6, mainly used in the United States (imperial version) and Canada (metric version):

**NASSCO PACP-6 Standard Catalogue for Pipe Inspection (imperial version)**

**Search**  
TBA 1

**Observation**  
TBA Tap Break-In Active at 12 o'clock, 6inch dim, within 8 inch

**Structural Defects**  
Construction Features  
Operational and Maintenance  
Miscellaneous Features

**T Tap**  
IS Intruding Sealing Material  
L Line  
A Access Points

**TBB Tap Break-In Abandoned**  
TFB Tap Factory Made Abandoned  
TSB Tap Saddle Abandoned  
TF Tap Factory Made  
TFC Tap Factory Made Capped  
TFD Tap Factory Made Defective  
TFI Tap Factory Made Intruding  
TFA Tap Factory Made Active  
TB Tap Break-In  
TBC Tap Break-In Capped  
TBD Tap Break-In Defective  
TBI Tap Break-In Intruding  
**TBA Tap Break-In Active**  
TS Tap Saddle  
TSC Tap Saddle Capped  
TSD Tap Saddle Defective  
TSI Tap Saddle Intruding  
TSA Tap Saddle Active  
TR Tap Rehabilitated  
TRD Tap Rehabilitated Defective  
TRI Tap Rehabilitated Intruding

**Diameter or height (0 - 99) (inch)**  
6

**Within 8 inches**  
☒

**Remarks**  
...

**Joint Angle**  
...

**Bend Clock**  
...

**Functions**  
[Icons for various functions]

**Live Video**  
HL 15.8m

Type the OP-Code or a part of the observation text into the SEARCH field (1) and double click on the catalogue entry which has been filtered out.

The catalogue opens and shows additional parameters on the **right hand side**. When highlighted in YELLOW you must enter a value in to this field, otherwise you are unable to confirm the observation with the green OK-button.

Damage catalogues in WinCan VX allow the operator to have the most used OP-Codes listed at the top of the code index (1), so there's no need to manually browse for them anymore: simply select the corresponding OP-Code and hit the **key F3**. To remove the code from the list, select it and type the **shortcut Ctrl + F3**.

**NASSCO PACP-6 Standard Catalogue for Pipe Inspection (imperial version)**

**Search**

**Observation**

**AMH Manhole**

01:AMH	Access Points, Manhole
02:TS	Tap, Tap Saddle
03:TFA	Tap, Tap Factory Made Active
04:MWL	Miscellaneous Features, Water Level
05:MSA	Miscellaneous Features, Survey Abandoned
ACB	Access Points, Catch Basin
ACOH	Access Points, Cleanout House
ACOM	Access Points, Cleanout Mainline
ACOP	Access Points, Cleanout Propertyline
ADP	Access Points, Discharge Point
AEP	Access Points, End of Pipe
AJB	Access Points, Junction Box
AM	Access Points, Meter
AMH	Access Points, Manhole
AOC	Access Points, Special Chamber
ATC	Access Points, Tee Connection
AWA	Access Points, Wastewater Access Device
AWW	Access Points, Wet Well
B	Broken, Broken
BSV	Broken, Broken Soil Visible

**Structural Defects**

**Construction Features**

**Operational and Maintenance**

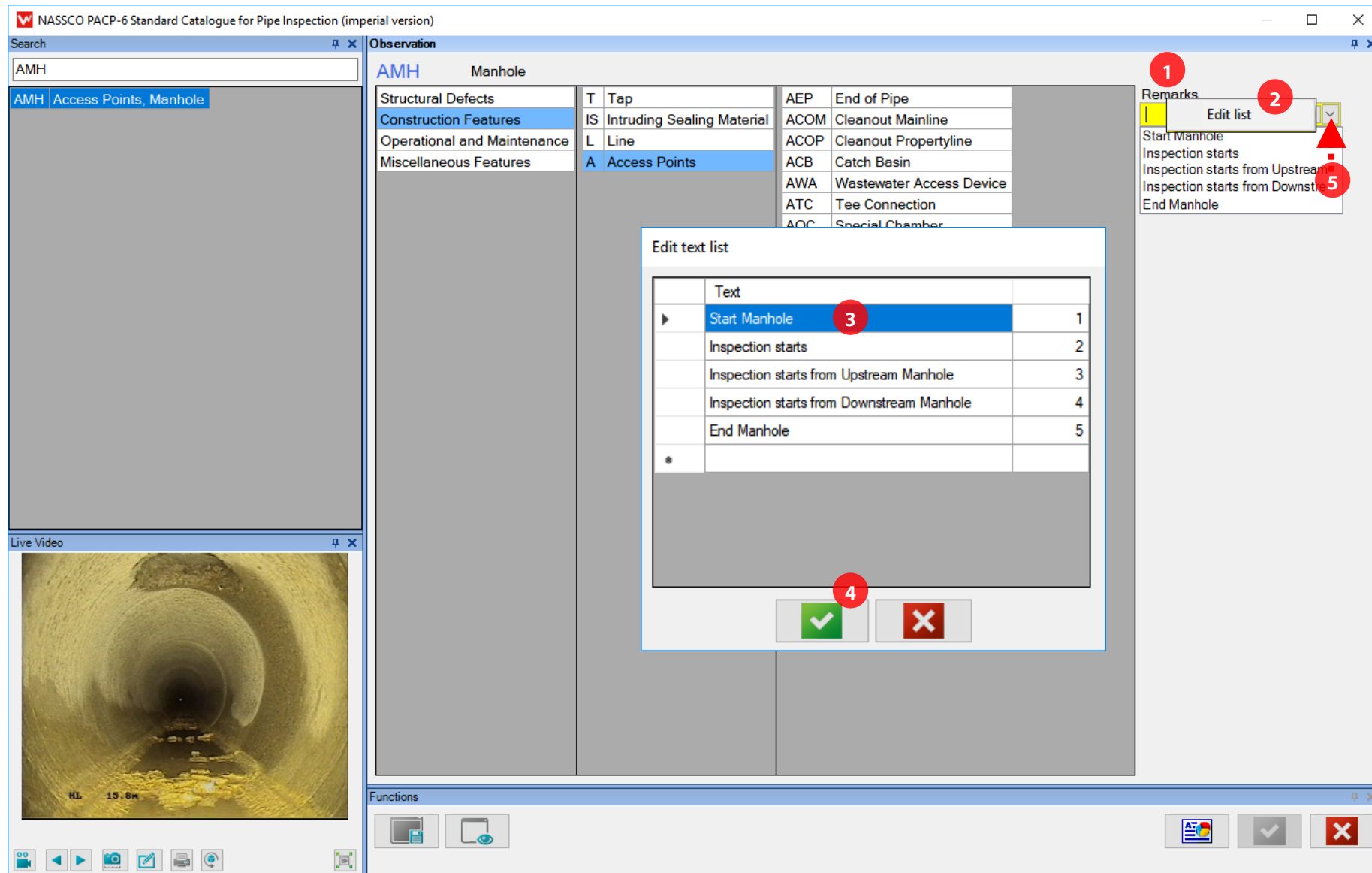
**Miscellaneous Features**

**Remarks**

**Live Video**

**Functions**

The operator also can create his own list of default remarks used to specify the current observation. Such a list will then be valid for each OP-Code that provides a text box for remark entry. Right click on the text *Remarks* (1), hit the command *Edit list* (2), enter the remark text into the list box panel (3) and confirm with the OK-button (4). From now the remarks you set are available when pushing the arrow button (5) right to the remark entry field:



## 9 Navigation Functionalities

WinCan VX (-PROD-) v1.1.12.2 [Operator] - [DEMO\_US\_PACP]

Home Projects Printing Data Exchange Tools Views WinCan Analyst Extended Modules Work Order Management Macros

New Project Open Project Close Project Refresh Project Manage Projects Project Participants Meta Data

Work Order: '-Job 1-', Variant: 'Variant 1'

DEMO\_US\_PACP Sections Laterals Nodes

Pipe Graph

Sections

Pipe Segment R	Total Len	City	Street	Upstream	Downstream	Material	Shape
1 NY7_PA3	51.60	New York	Park Avenue	3	4	concrete	
2 NY8_PA4	68.10	New York	Park Avenue	4	5	concrete	
3 NY9_PA5	40.00	New York	Park Avenue	5	6	concrete	
4 NY1_BW1	120.00	New York	Broadway	10	11	concrete	
5 NY2_BW2	130.22	New York	Broadway	11	12	concrete	
6 NY3_BW3	250.00	New York	Broadway	12	13	concrete	Circular 24in
7 NY10_ST17_1	120.00	New York	17th Street	1_ST17	2_ST17	concrete	
8 NY11_ST17_2	65.00	New York	17th Street	2_ST17	3_ST17	concrete	
9 NY4_BW20-21	270.00	New York	Broadway	20	21	Concrete Pipe (non-reinforc...	
10 NY5_BW21-22	285.00	New York	Broadway	21	22	Concrete Pipe (non-reinforc...	
11 NY6_BW22-23	268.00	New York	Broadway	22	23	Concrete Pipe (non-reinforc...	

Photo/Video

Move the red slider to navigate through the observation table and the video clip **simultaneously**.

Observations

	Distance	Distanc	PACP	Observation	CD1	Photo	Photo	Clip	Lateral	Count	Scan	Laser	Remarks	Grad
1	0.00	120.00	AMH	Upstream Manhole, Survey Begins						00:00:02				
2	11.40	108.60	TBA	Tap Break-In Active, at 12 o'clock, 5", within 8 inches of joint: YES						00:00:00				
3	12.00	108.00	DSZ	Deposited Other, 5 %of cross sectional area, from 05 to 07 o'clock, . within 8 inches of...						00:01:26				
4	33.00	87.00	DSZ	Deposited Other, 5 %of cross sectional area, from 05 to 07 o'clock, . within 8 inches of...						00:03:27			deposits S...	
5	48.00	72.00	TBA	Tap Break-In Active, at 12 o'clock, 5", within 8 inches of joint: YES						00:04:20				
6	85.50	34.50	TBA	Tap Break-In Active, at 11 o'clock, 5", within 8 inches of joint: YES						00:07:46				
7	111.90	8.10	DSC	Deposited Compacted, 5 %of cross sectional area, from 03 to 06 o'clock, . within 8 inc...						00:10:20				
8	120.00	0.00	AMH	Downstream Manhole, Survey Ends						00:10:30				

OSD Functions

Project bar Main distance Lateral distance Inclination (L, %) Inclination forward Screen On/Off

Observation 0.00 ft 0.00 ft 0.00 % Inclination backward

Section data Distance auto/manual Main dist <-> Lat. dist 0.5 Set distance OSD objects

OSD State: Panel 2

Check meta database for update... NASSCO\_PACP-6\_ENG\_USA\_SEC/PACP-6 226.4 GB local\WCSYS.sdf #DEMO-943326514/L 0%



## 10 Deleting Objects and Media Data

Right click on any record inside the overview panels, hit the command *Delete* or select the corresponding icon in the symbol bar. To delete only photos or video clips, right click on the corresponding icon in the observation panel and hit the command *Delete photo 1/2* or *Delete Clip*:

The screenshot displays the WinCan VX interface with two main panels: 'Sections' and 'Observations'.

**Sections Panel:** This panel contains a table with columns: Pipe Segment R, Total Len, City, Street, Upstream, Downstream, Material, and Shape. A right-click context menu is open over the record for 'NY10\_ST17\_1', showing options: New, Wizard, Edit, Cut (Ctrl+X), Copy (Ctrl+C), Paste (Ctrl+V), Delete, Multiple Action, and Create new inspection from other side.

**Observations Panel:** This panel contains a table with columns: Distance, Distanc, PACP, Observation, CD1, Photo, Photo, and Clip. A right-click context menu is open over the record for '48.00', showing options: New, Wizard, Edit, Delete, Multiple Action, Copy file name, Copy file path, Open containing folder, and Delete 'Photo 1'.

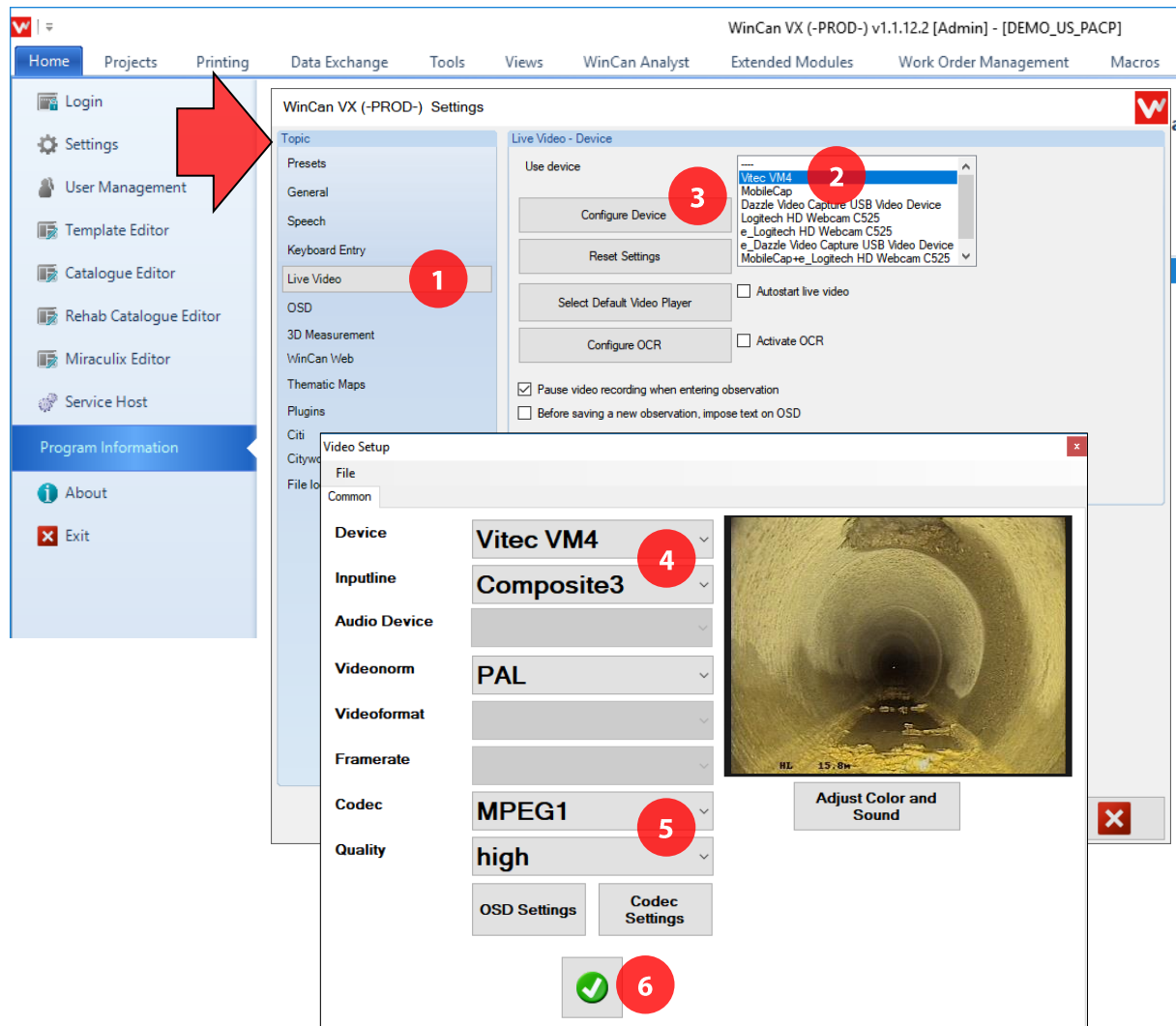
A third context menu is open over a photo icon in the 'Observations' panel, showing options: New, Wizard, Edit, Delete, Multiple Action, Copy file name, Copy file path, Open containing folder, and Delete 'Clip'.

### IMPORTANT:

WinCanVX NEVER deletes your data: deleted sections, inspections, laterals or manholes can always be restored via the project manager (*Projects > Manage Projects*). Deleted photos and video clips are moved directly into the project sub-folder TRASH and can be restored from there.


## 11 Recording and Playing Back Video Clips:

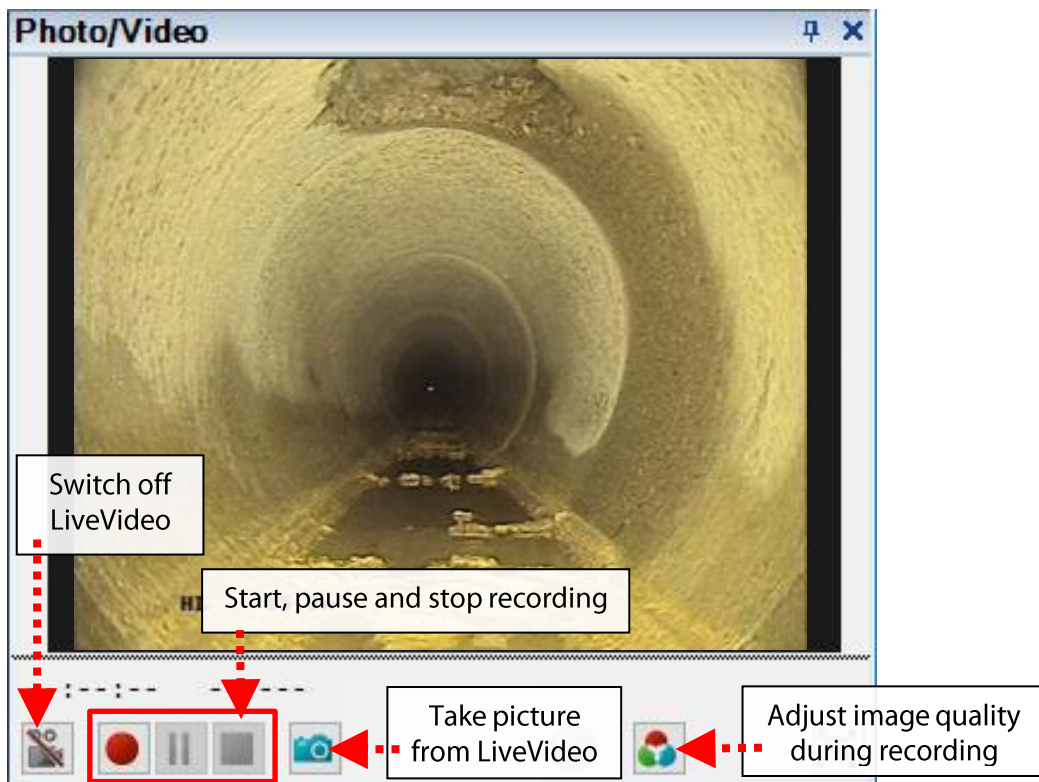
Always check the LiveVideo settings prior to start recording video clips with your camera equipment: WinCan VX officially supports two MPEG-encoding devices. After the installation of the software package *WinCanVXDriverSetup.exe* the corresponding entries appear in the dialogue box as shown below:





Select the entry *Vitec VM4* or *Sensoray 2253* depending upon which one of these MPEG encoding devices you have currently installed:

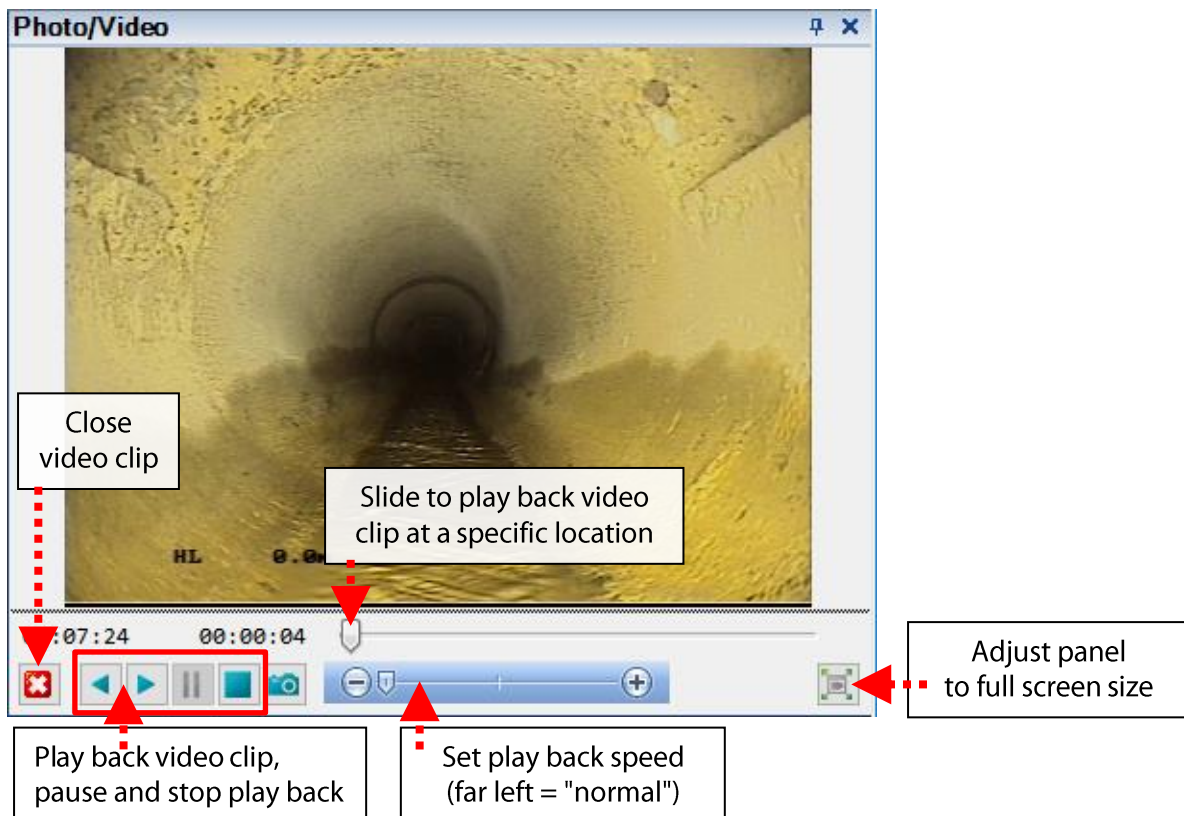


Switch on the camera and hit the camera icon  to show the LiveVideo signal in the video panel. Pushing the recording button then starts recording a video clip:




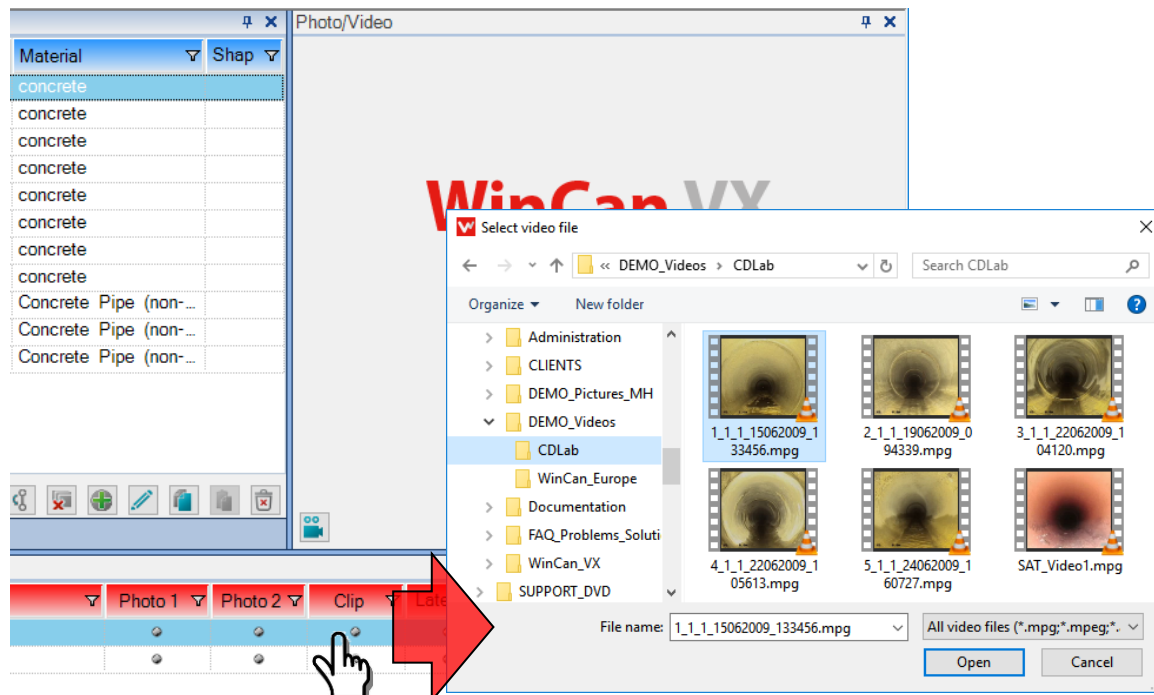
Video recording is paused automatically as soon as the damage catalogue is open.

Double click on the clip icon  in the field *Clip* to play back the video clip or double click on the photo icon  in the field *Photo1/Photo2* to show the picture:




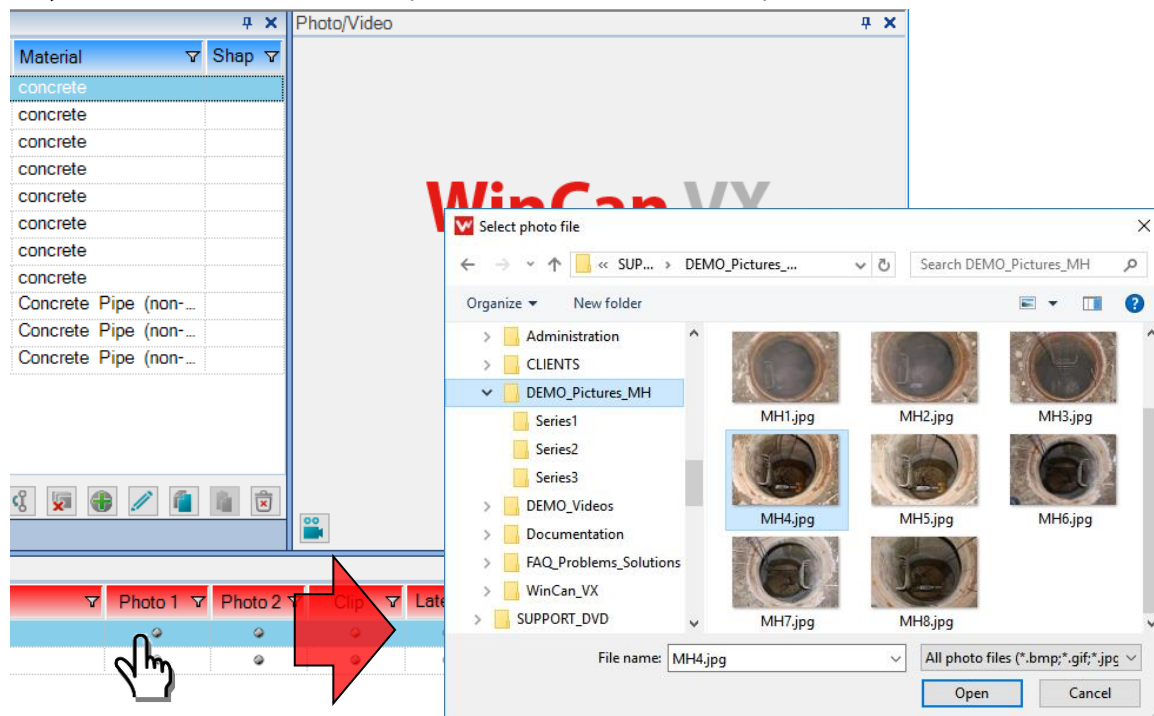
## 12 Importing existing Photos and Video Clips

Hit the button  in the video panel to switch off the LiveVideo signal and double-click on the grey bullet in the field *Clip*. Use the windows dialogue to browse for the video clips located on your local hard drive, select a video file and click on the *Open* button:



The video clip is copied automatically into the sub-folder **Video\Sec** or **Video\Nod** within the current project.

Hit the button  in the video panel to switch off the LiveVideo signal and double-click on the grey bullet in the fields *Photo1* or *Photo2*. Use the windows dialogue to browse for the pictures located on your local hard drive, select a picture file and click on the *Open* button:

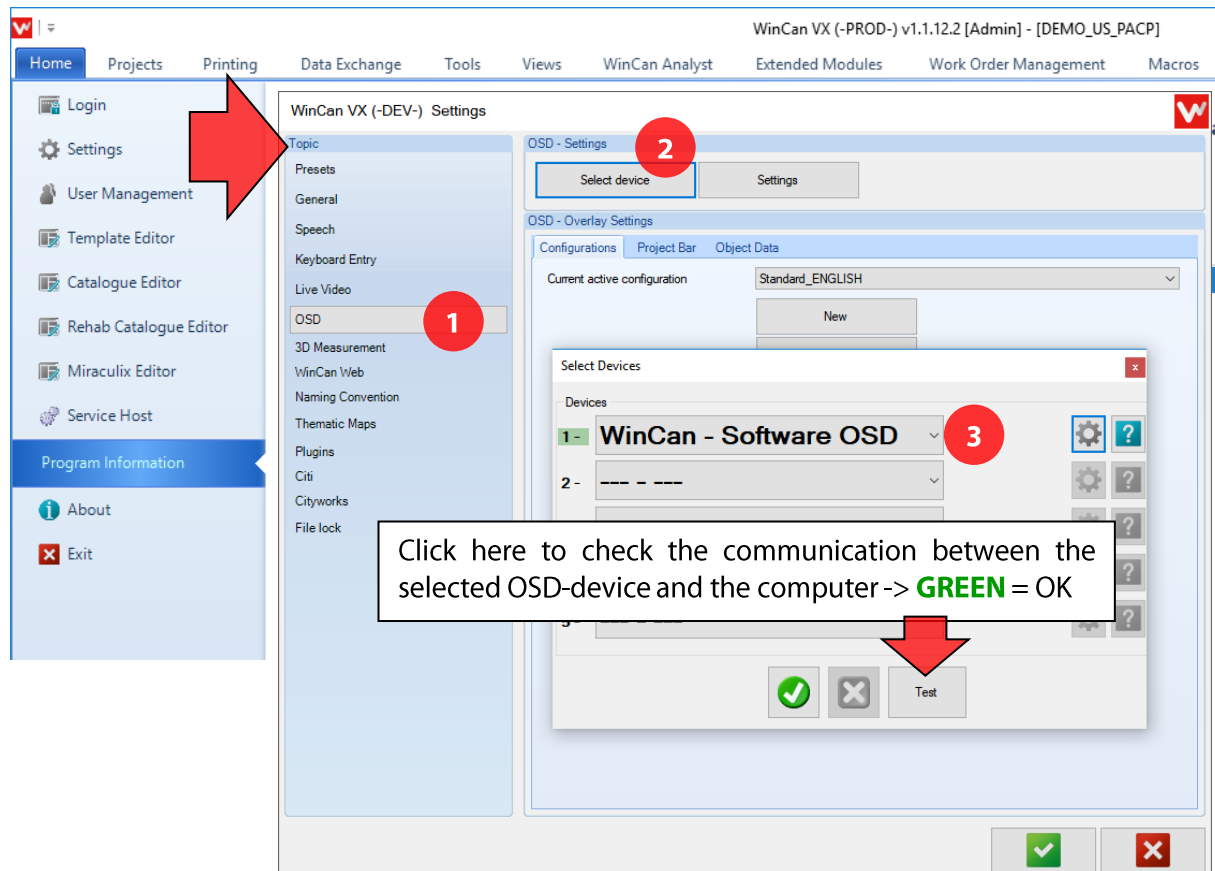


The picture is copied automatically into the sub-folder **Picture\Sec** or **Picture\Nod** within the current project.

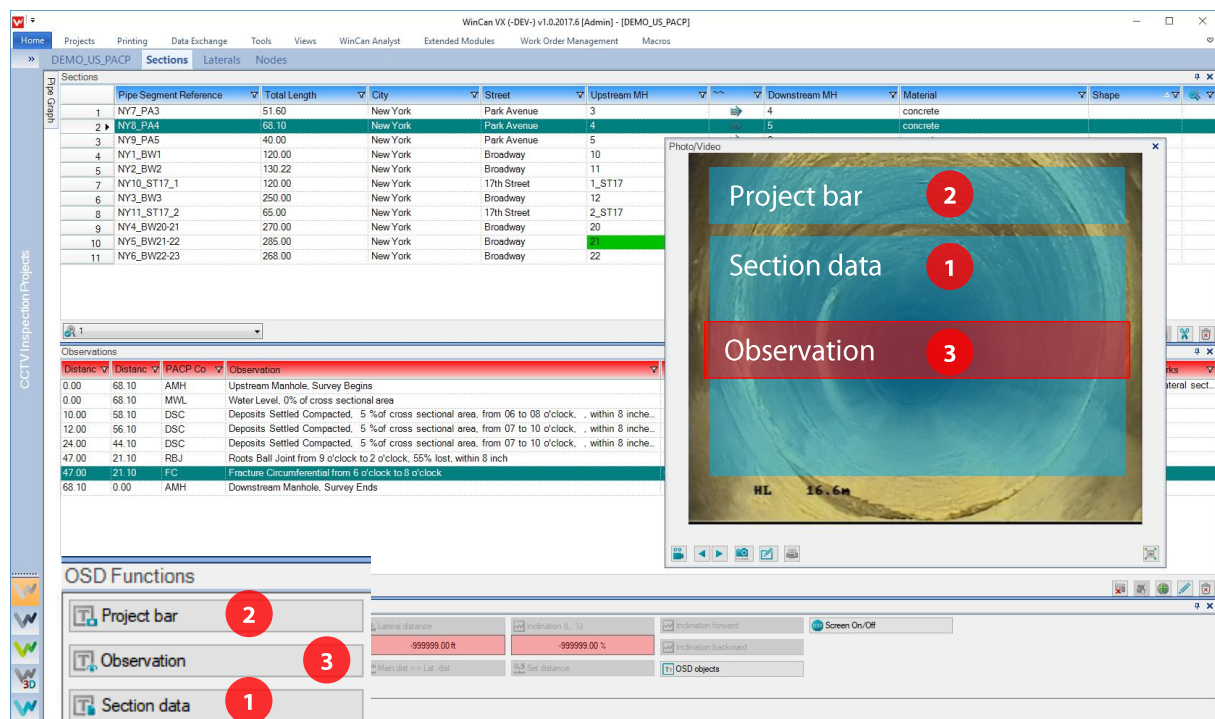


### 13 Connection to OSD device:


Check the OSD-settings in order to be able to control the display of various text parts as project bar, section data (object data) and values directly provided by OSD-objects (date, time, inclination, distance...) directly from the WinCan software:

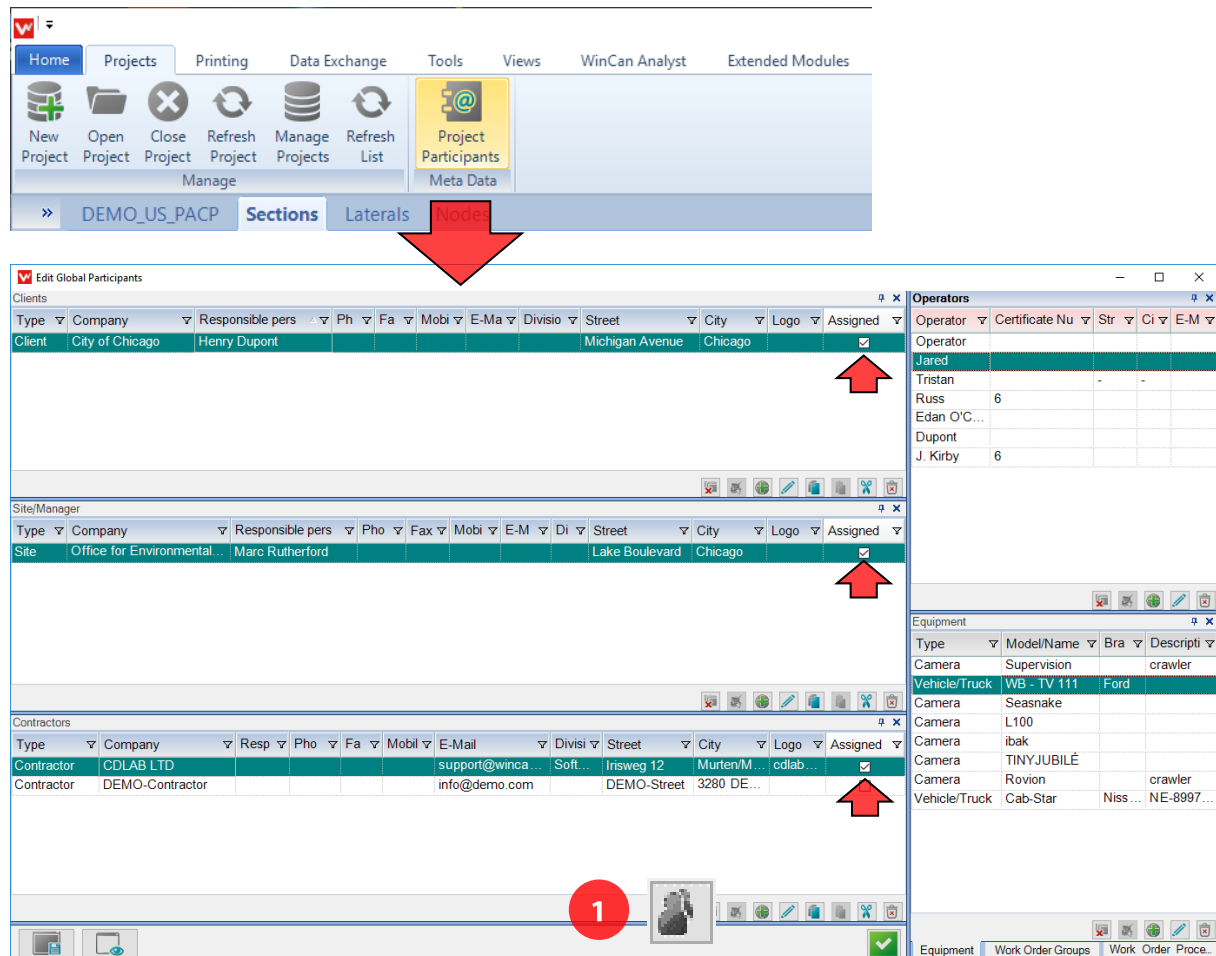


Once the communication between OSD-device and computer is established, project bar, section data and observation text are displayed as soon as the user hits the corresponding buttons.



## 14 Assigning Project Participants

Select the command *Projects > Project Participants* to open the address panel: the left part is subdivided into three address categories: right click into each category or hit the button  to create a new address and enable the check box to assign a specific address to the current project:



The right part of the panel allows the user to manage a list of operators, cameras and trucks, which can then be selected directly from the corresponding fields within the inspection panel (page 9).

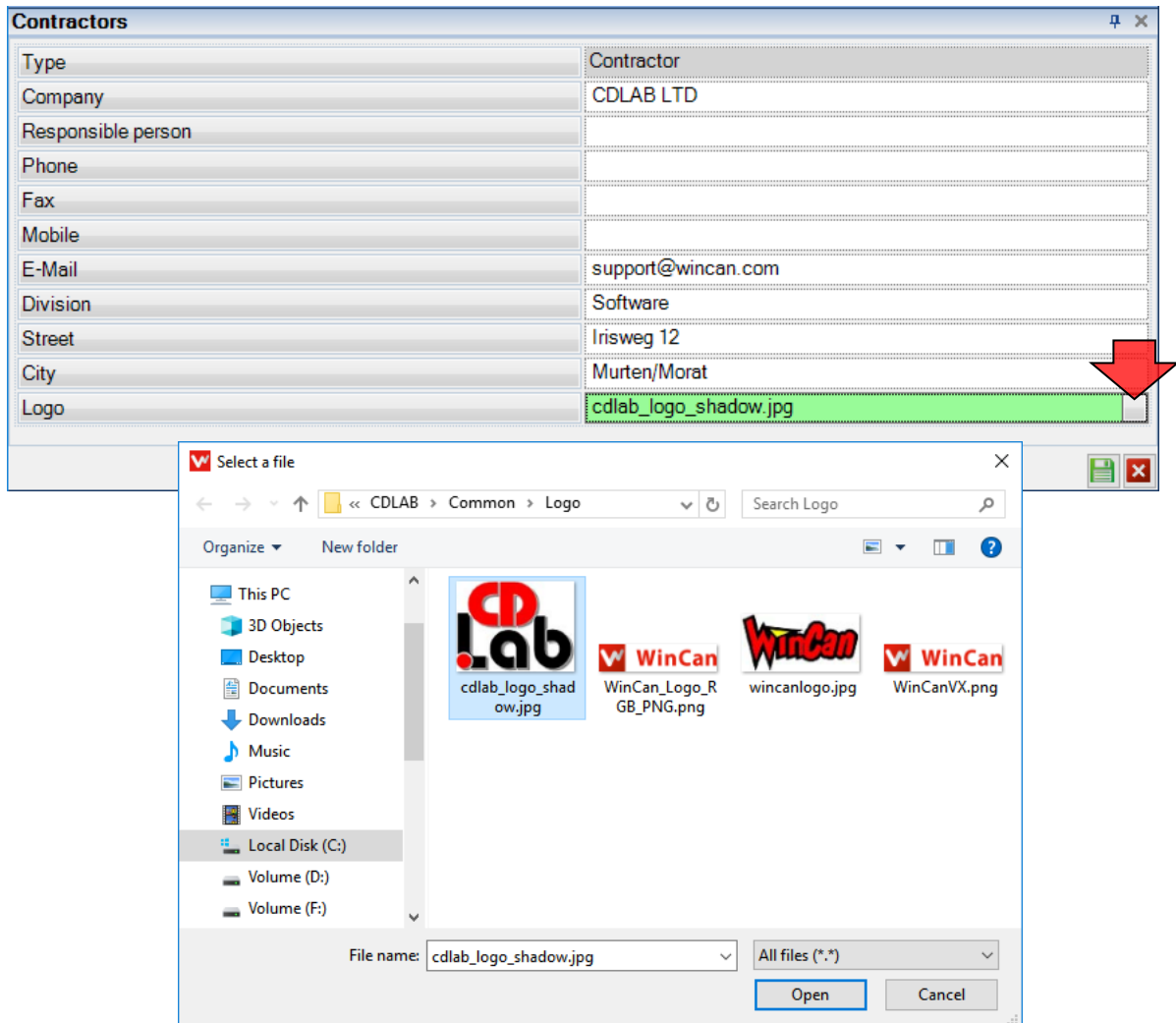
Client, manager and contractor addresses that have got a check mark will be printed on the project information page. So always make sure you properly assigned the addresses to the current project before you print the whole report.

The contractor panel provides an additional command button to set the currently selected address as the default contractor (1).

This address is going to be assigned automatically to **future projects**.



To change the contractor's logo simply double-click on the address line, go to the logo field in the address input mask and click on the grey square button. This is going to open a Windows dialogue where you can browse for the corresponding logo file:



Finally hit the button  to save your changes.

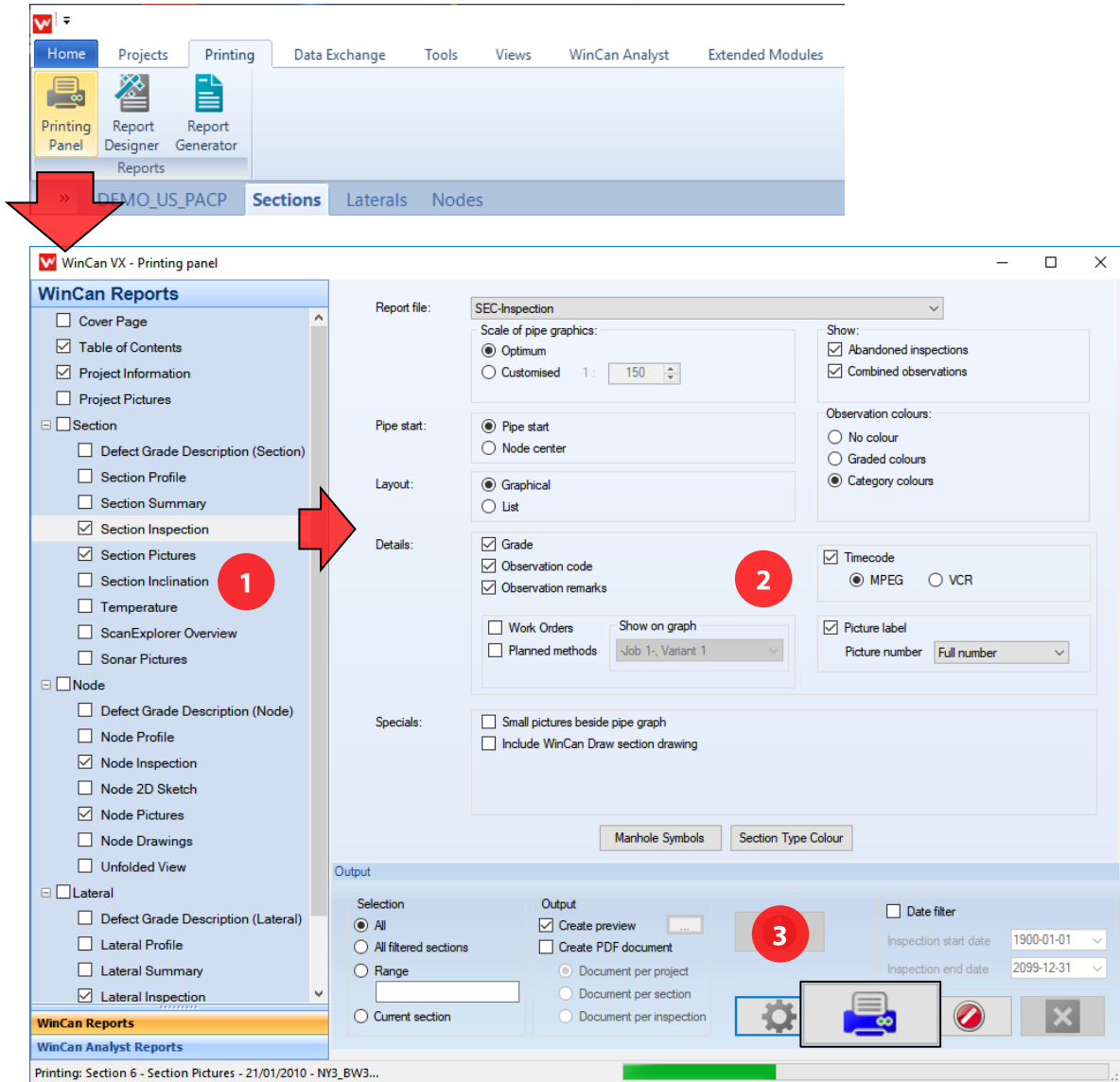
Each address you create is saved to the file *WCMETA.sdf*, which is located in the installation folder *C:\Users\Public Documents\CDLab\Common\Ressources\sqlCE\*.

The addresses you have just assigned to the current project are saved to the file *[project name]\_Meta.sdf* which you can find in the project folder *DB*.

## 15 Printing Inspection Reports

Select the command *Printing > Printing Panel* to open the printing dialogue. Enable the kind of reports you want to print in the left part (1). Select any report type to show a group of specific options you may enable or disable for that report (2).

The third part (3) of the printing dialogue provides options to control the data output.



Finally click on the printer icon to get either a print preview or a PDF file of the inspection report. The progress of this procedure is shown in the status bar below.

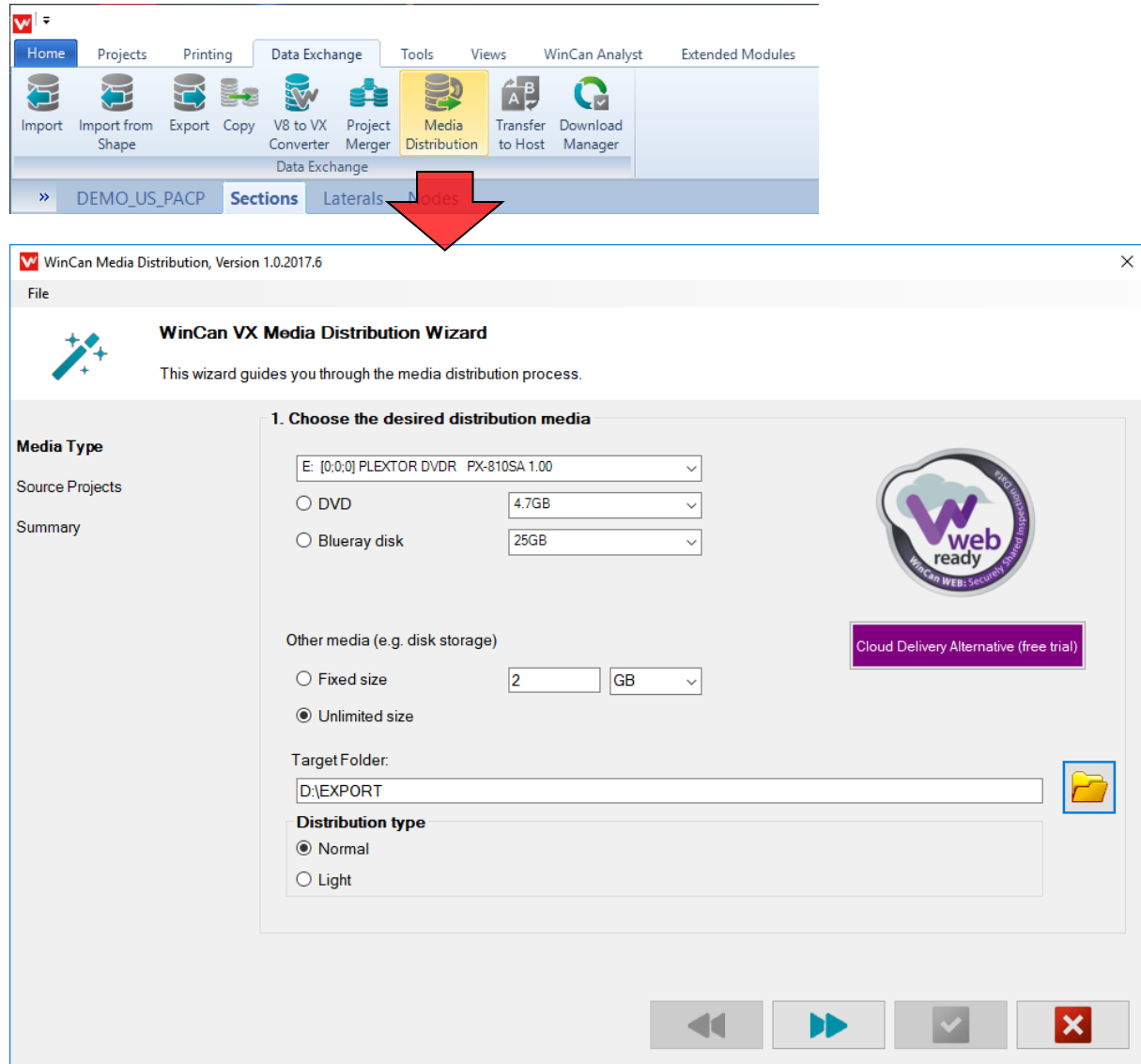
Especially mind that large projects with several hundred sections, laterals and manholes may take more than 45 minutes to be printed.

DEMO US PACP // Page: 1Page 2

## 16 Copying/Burning Projects to External Drives

Select the command *Data Exchange > Media Distribution* and follow the steps given by the wizard to have your project copied on a removable disk together with WinCanVX – running in the *Viewer* mode - or with a *LightViewer* software.

End customers thus are able to view all project data on their workstations without any licence.



It is recommended to select the distribution type *Normal* for projects that contain inclination, scan or map data as the *Light Viewer* only shows basic data (inspection report, video clips, photos).

When selecting the option *Normal* the project data should be distributed to a USB-stick or USB-disk instead of burning them on a DVD as data are going to be launched much more quickly from USB-drives.

## Project distributed with WinCanVX software (option **Normal**):

The screenshot displays the WinCan VX software interface. The main window shows a project titled "Test\_US\_PACP" with various tabs like Home, Projects, Printing, Tools, Views, and Extended Modules. The "Sections" tab is active, showing a table of pipe segments with columns for Pipe Seg, Total L, City, Street, Upstream, Downstream, Material, and Shape. A file explorer overlay is visible on the right, showing the project structure with folders for Projects, System, and files like 20171205.1.Index.txt, AUTORUN.INF, DISK1, DistributionList.txt, Favicon.ico, and WinCanVX.exe.

Pipe Seg	Total L	City	Street	Upstream	Downstream	Material	Shape	
1	DF 1	50.00	Philadelphia	Fairfield R.	685	534	Concrete	Egg shap...
2	DFB 8	48.10	Philadelphia	Earlham S.	538	537	Concrete	Round 90...
3	DFB12	30.50	Philadelphia	Eardley R.	3947	3946	Polyvinyl...	Round 30...
4	HCA 8	37.50	Philadelphia	Fairlie Gar...	1744	1743	Concrete	Egg shap...
5	CDC 2	33.10	Philadelphia	Fairlie Gar...	526	527	Concrete	Egg shap...
6	HC 18	64.30	Philadelphia	Fairholt Cl.	1734	1735	Concrete	Round 12...
7	H 20	58.80	Philadelphia	Fairway A.	1834	1833	Concrete	Round 90...
8	2016-04-1...	0.00	Philadelphia	Fairholt Cl.				

## Project distributed with the LightViewer software (option **Light**):

The screenshot displays the WinCan VX software interface. The main window shows a project titled "VX:LightViewer - DEMO\_UK\_WRC3\_3D". The "Sections" tab is active, showing a table of pipe segments with columns for Section, Inspection, Date, Time, Location, Material, and Shape. A file explorer overlay is visible on the right, showing the project structure with folders for App\_Data, Projects, System, and files like 20171205.2.Index.txt, AUTORUN.INF, DISK1, Favicon.ico, and LightViewer.exe.

Section	Inspection	Date	Time	Location	Material	Shape
1	1	11/12/19	0:00	London	Piccadilly Street 8	WC6
2	2	11/12/19	0:00	London	Piccadilly Street 8	WC1
3	3	11/12/19	0:00	London	Piccadilly Street 8	WC2
4	4	11/12/19	0:00	London	Piccadilly Street 8	WC3
5	5	11/12/19	0:00	London	Piccadilly Street 8	WC4
6	6	11/12/19	0:00	London	Piccadilly Street 8	WC5
7	7	11/12/19	0:00	London	Piccadilly Street 8	WC6



## 17 Upload projects via WinCan-WEB

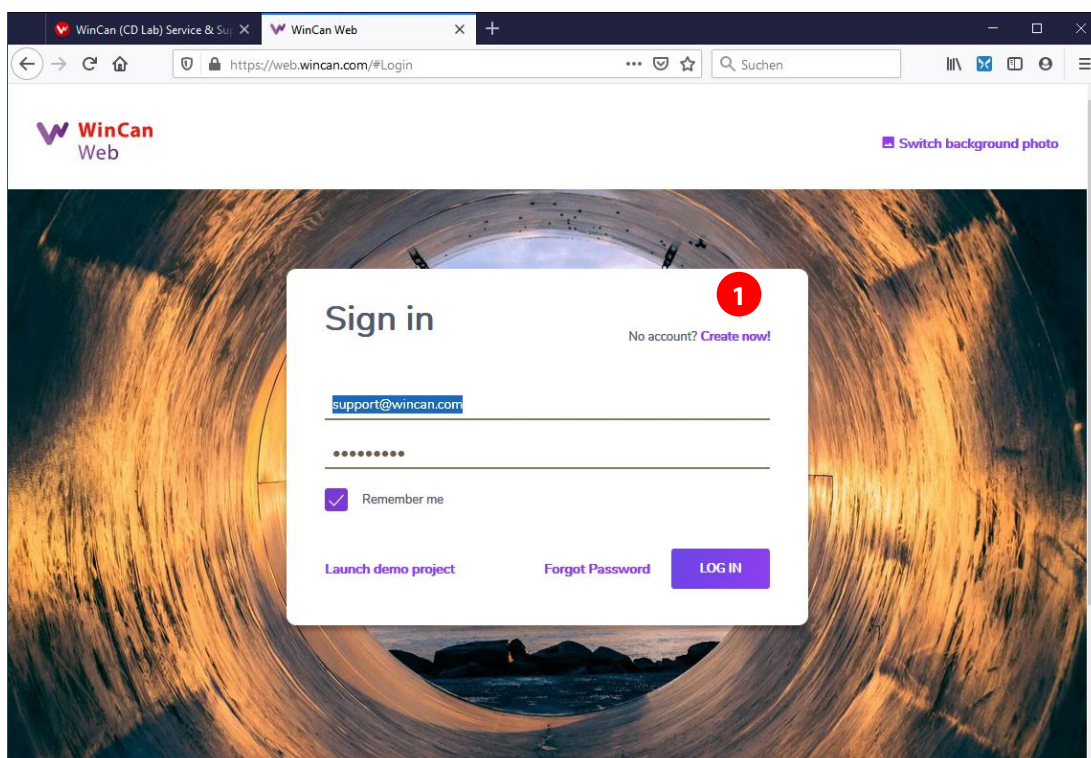
WinCan-WEB is a cloud-based service provided by the company *WinCan, Switzerland* in collaboration with the regional web hosting subsidiary of *AMAZON*.

This new service allows the CCTV-companies to upload their survey data to a host server, where it can be downloaded from at any time and on any spot on the world by an end customer. So this procedure is able to fully replace the sending of survey data as paper reports or as a batch of DVDs.

However WinCan-WEB is NOT thought to be used as a long term storage medium. Project data thus should only be available for a limited time span.

### 17.1 Create an account

In order to be able to upload and download projects you must create your own account launching your web browser and typing the address <http://web.wincan.com>. The main screen of WinCan-Web then tells you to either sign in with an **existing** user account or to register as a **new** user:



Registration (1) as a new user requires the following information:

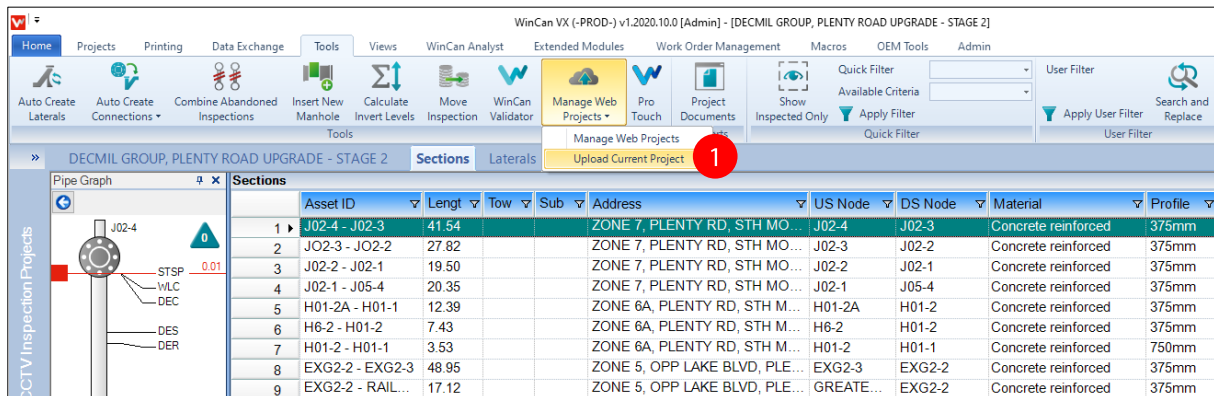
- Name of the company (case sensitive)
- Personal e-mail address (case sensitive)
- Personal password (case sensitive)

Your registration will then be confirmed automatically via e-mail. Registration will give you the right for **45 days** to use **25 GByte of server disk space for free**.



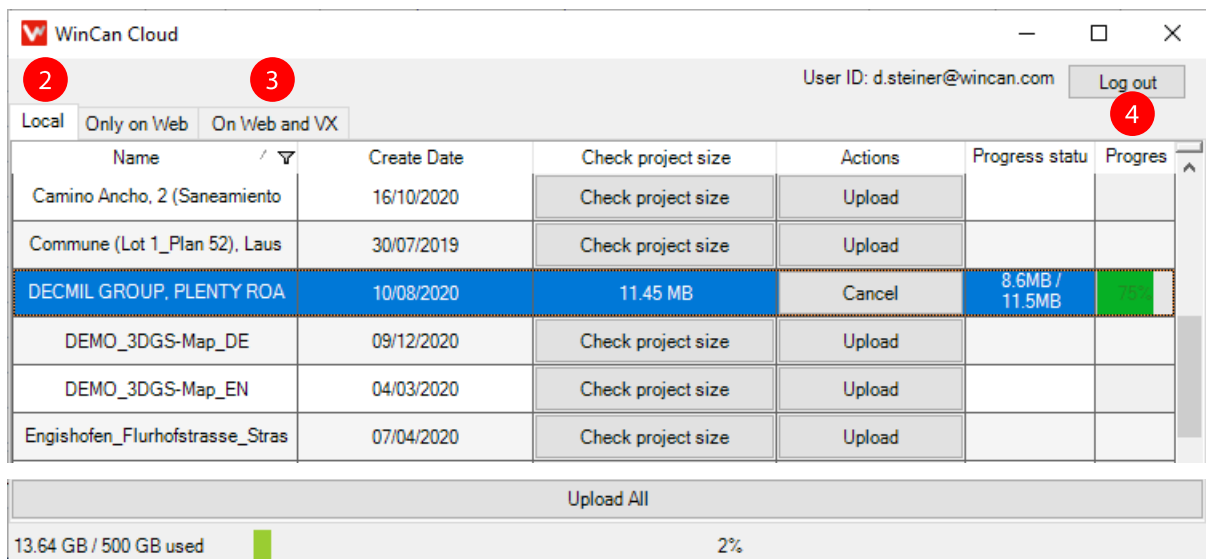
## 17.2 Upload and view projects with the WEB viewer

At the beginning your personal account is showing an empty list in WinCan-Web. In order to upload a project, open it in WinCanVX and hit the command *Tools > Manage Web Projects > Upload Current project* (1):



The panel that follows shows the status of the process in the progress bar. Besides that, it provides you a list of all available projects on the local hard drive (2) and those which have already been uploaded (3).

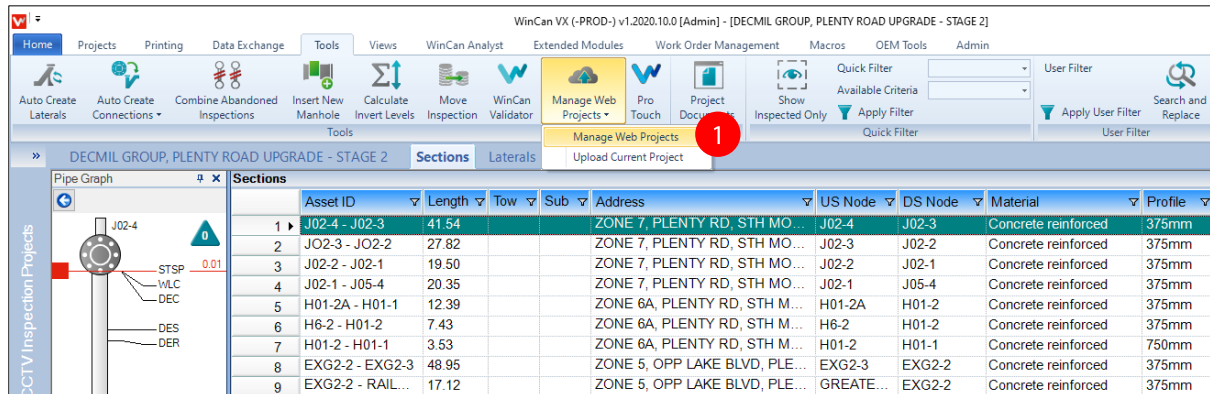
You can thus manage your personal web space directly in WinCanVX. Use the button Log in/Log out (4) to enter the profile data of your personal web space.



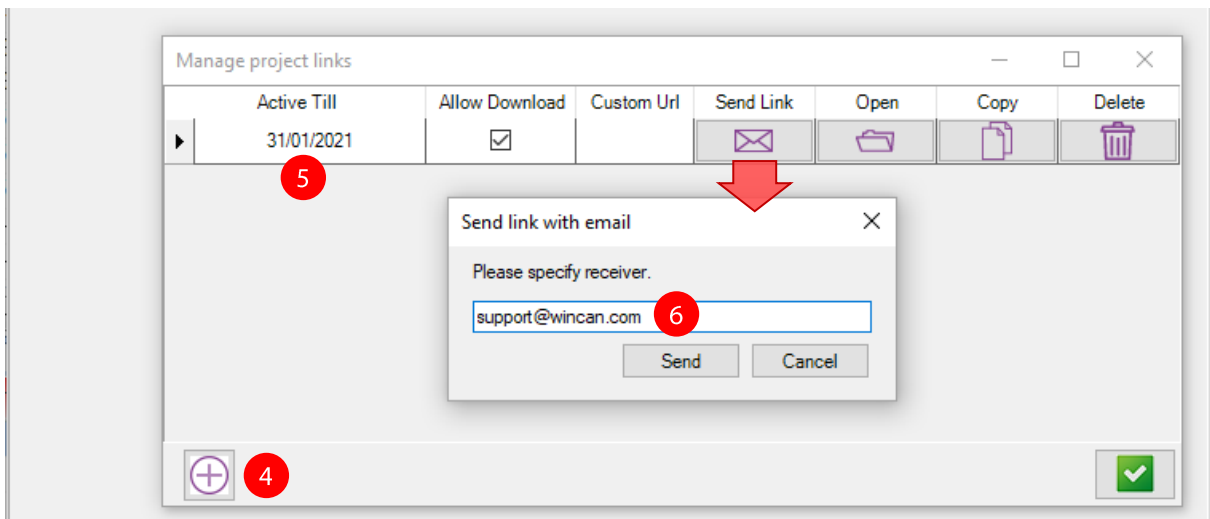
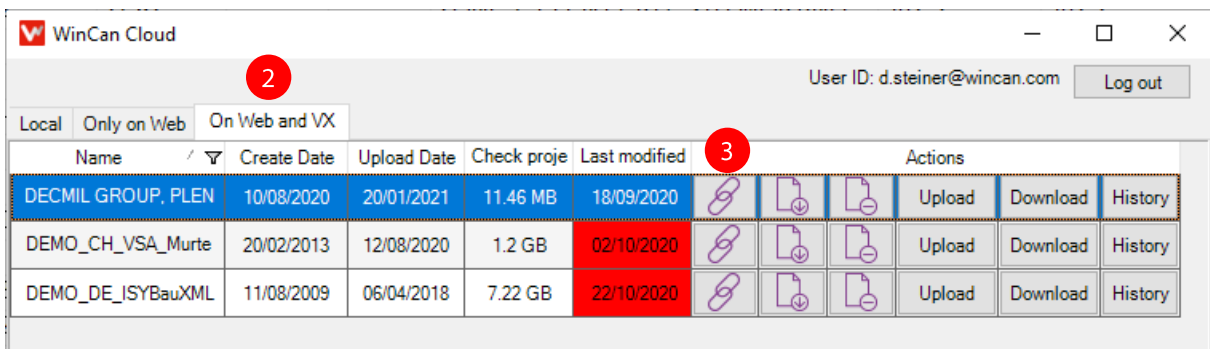
Once finished you are informed via e-mail the project has been successfully uploaded to your personal web space.

## 17.3 Send project links to end customers

In order to make uploaded projects accessible for end customers, run WinCanVX and hit the command *Tools > Manage Web Projects > Manage Web Projects*:



Switch to the tab *On Web and VX* in the dialogue box that follows (2), select the desired project from the list of recently uploaded projects and hit the paper clip icon (3) in order to create a corresponding link:

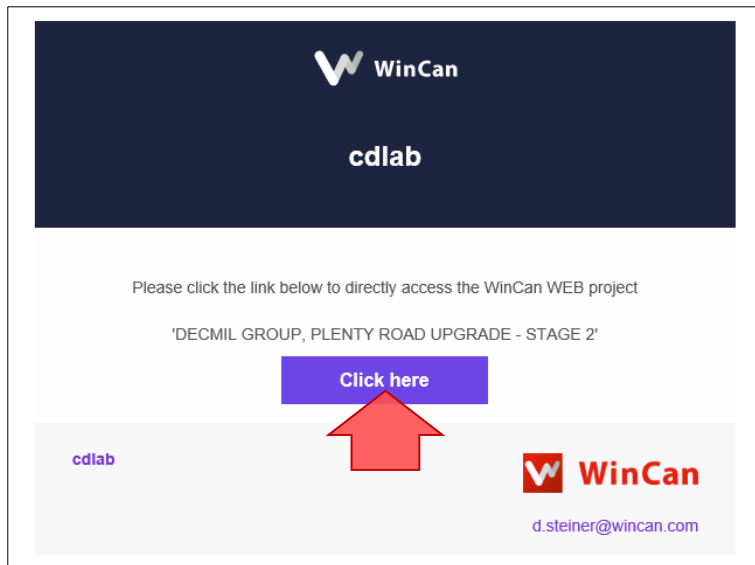


The dialogue that follows asks you to create a link (4), set an expiration date (5) and finally send it to the receiver (i.e. e-mail address of the end customer (6)).

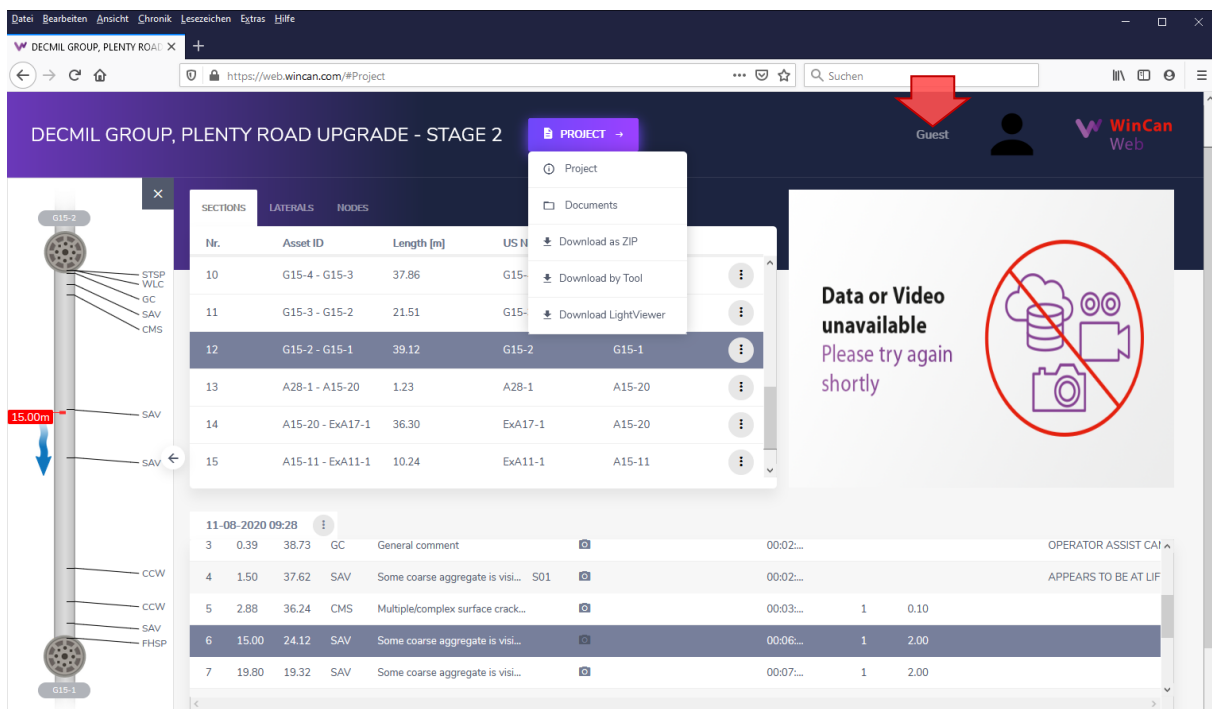
Make sure the option *Allow Download* is checked so the end customer will be able to download the project from WinCan-Web.

## 17.4 Direct access to projects via guest account

The end customer himself is informed immediately via e-mail that he will be able to access the project data from now using the Web-Viewer:



When clicking on the corresponding link, he is automatically signed in on the WinCan WEB platform with a GUEST-account, that just allows him to browse through that specific project and to download it to his local computer:



## 18 Handy Shortcuts supported in WinCan VX

Customizing shortcuts for a given set of commands is a completely new feature in WinCanVX. Click on *Home > Settings > Keyboard Entry* and directly hit the corresponding key on your keyboard in order to define the desired shortcut:

