

TPS1200 to Liscad GSI

System 1200

Export Liscad GSI data from TPS1200

July, 2004

WORKING
TOGETHER



LEICA SYSTEM 1200

Leica
Geosystems

TPS1200 – Liscad GSI Guide
July 2004
Page 1 of 10

TPS1200 – Liscad GSI file Export Procedure

Purpose This guide will lead you through the necessary procedure to create an Liscad GSI file with the TPS1200 total station.

Requirements This procedure requires the use of the **TPS_LCAD_M.FRT** or **TPS_LCAD_F.FRT** format file and a codelist similar to the given example in Appendix A. This format file and sample codelist are available for download on the Advantage Support website. (www.leicaadvantage.com)

Note: The use of a codelist with the same structure is mandatory to allow for line creation.

Before you start Create a codelist or download the sample codelist from the Advantage Support website. Copy this codelist to the \CODE directory of your CF card. Download and copy the TPS_LCAD_M.FRT and TPS_LCAD_F.FRT files to the \CONVERT directory of your CF Card.

Process Overview

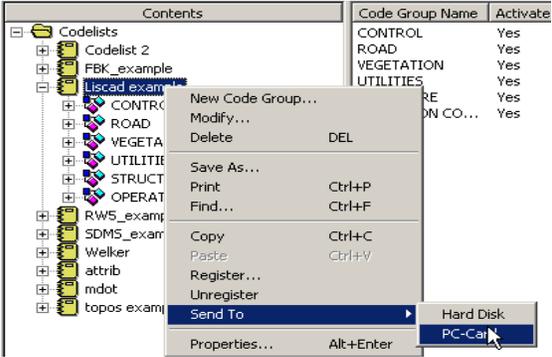
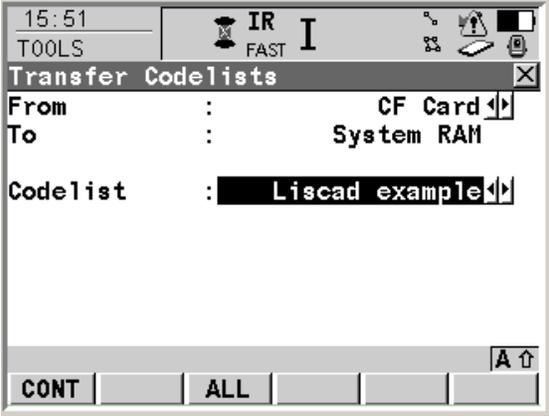
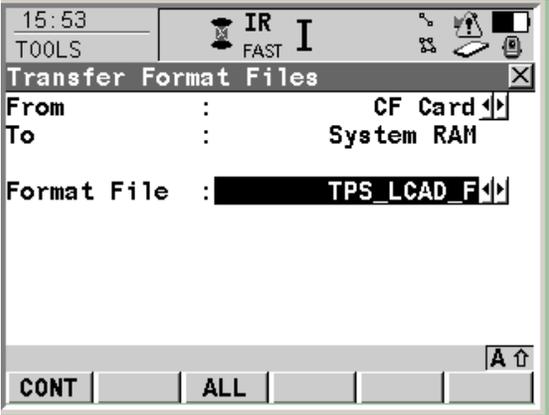
- Prepare your instrument.
- Create a new job.
- Collect data with codes.
- Export the FBK file.

Limitations This format file will not export points collected using the Auto Record mode in the Survey application.

Continued on next page

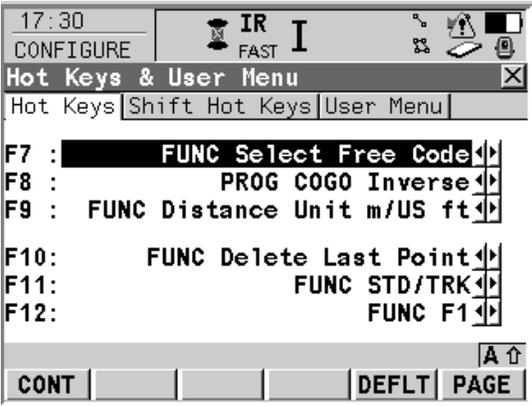
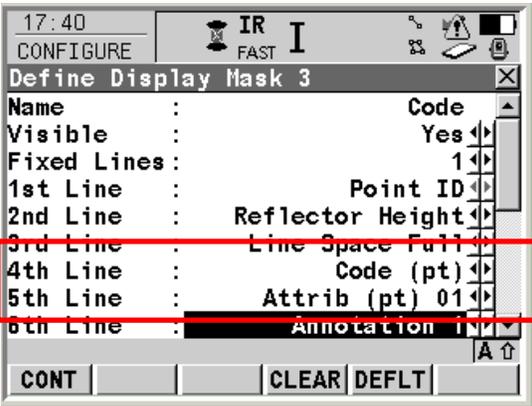
Liscad is a registered trademark of Listech.

Prepare your Instrument

Step	Action	Display
1	<ul style="list-style-type: none"> Copy the Liscad example codelist into the \CODE directory on your PC Card. <p>Note: A System 1200 codelist is made up of three files. This is important to know if you are doing a Copy/Paste of the codelist in an application such as Windows Explorer.</p>	
2	<p>From the Main Menu:</p> <ul style="list-style-type: none"> Select 6 Tools.... Select 2 Transfer Objects.... Select 1 Codelists. Select to transfer the codelist from the CF card to System RAM. Select the Liscad example codelist. Press the F1 (CONT) button to transfer the file and return to the Main Menu. 	
3	<p>From the Main Menu:</p> <ul style="list-style-type: none"> Select 6 Tools.... Select 2 Transfer Objects.... Select 6 Format Files. Select to transfer the format file from the CF Card to the System RAM. Select the TPS_LCAD_F (or M) format file. Press the F1 (CONT) button to transfer the file and return to the Main Menu. 	

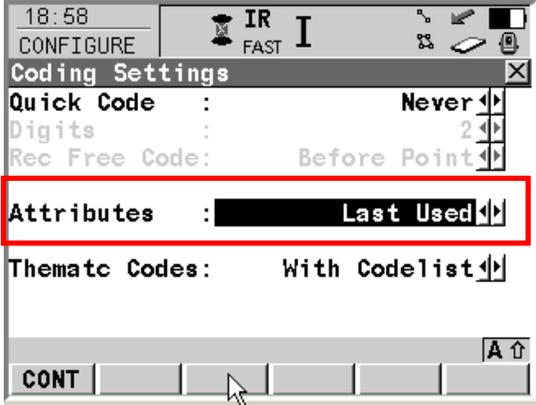
Continued on next page

Prepare your Instrument, continued

Step	Action	Display
4	<ul style="list-style-type: none"> Configure one of the F7 – F12 Hot Keys to the FUNC Select Free Code. <p>Note: Changes will be applied only to the active configuration set.</p>	
5	<ul style="list-style-type: none"> Configure the CODE Display Mask for linework creation. <p>From the Main Menu:</p> <ul style="list-style-type: none"> Select 5 Config... Select 1 Survey Settings... Select 2 Display Settings. Select Mask 3, Code and press the F3 (DMASK) button. <p>The mask must have the following 2 fields:</p> <ul style="list-style-type: none"> Code (pt). Attrib (pt) 01. 	

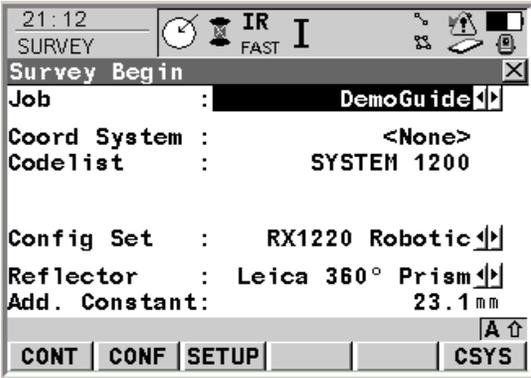
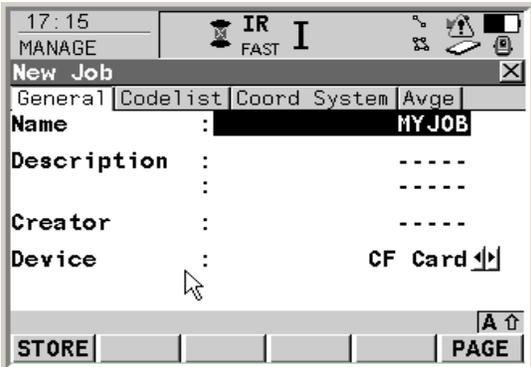
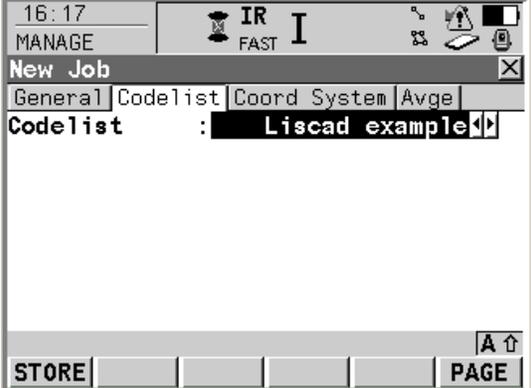
Continued on next page

Prepare your Instrument, *continued*

6	<ul style="list-style-type: none">• Configure the Coding Settings Attributes.• Select 5 Config....• Select 1 Survey Settings....• Select 3 Coding Settings. • Set the Attributes field to: Last Used.	 <p>The screenshot shows a handheld device interface with a 'CONFIGURE' screen. At the top, it displays the time '18:58', 'IR FAST', and a battery icon. Below this is a 'Coding Settings' menu with the following options: 'Quick Code : Never', 'Digits : 2', 'Rec Free Code: Before Point', 'Attributes : Last Used' (highlighted with a red box), and 'Thematic Codes: With Codelist'. At the bottom, there is a 'CONT' button and a cursor pointing to it.</p>
---	--	---

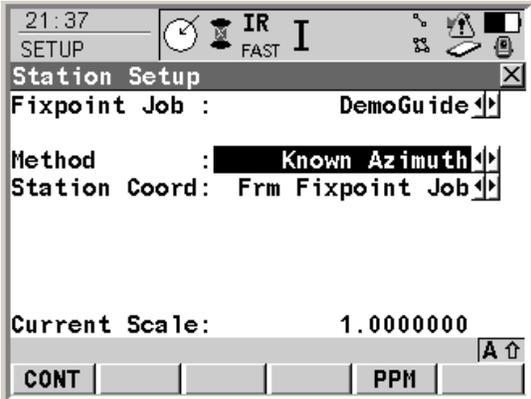
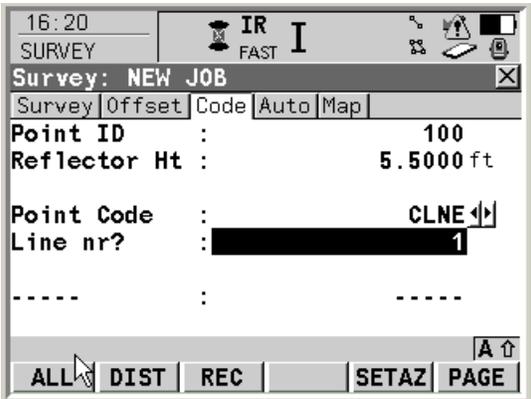
Continued on next page

Create a New Job

Step	Action	Display
1	<p>From the Main Menu:</p> <ul style="list-style-type: none"> • Select 1 Survey. • In the Survey Begin panel, highlight the Job field and press the ENTER button. 	 <p>21:12 SURVEY IR FAST I</p> <p>Survey Begin</p> <p>Job : DemoGuide</p> <p>Coord System : <None> Codelist : SYSTEM 1200</p> <p>Config Set : RX1220 Robotic Reflector : Leica 360° Prism Add. Constant: 23.1mm</p> <p>CONT CONF SETUP CSYS</p>
2	<p>In the Jobs Panel:</p> <ul style="list-style-type: none"> • Press the F2 (NEW) button. • Enter a Job Name. • Press the F6 (PAGE) button. 	 <p>17:15 MANAGE IR FAST I</p> <p>New Job</p> <p>General Codelist Coord System Avge</p> <p>Name : MYJOB</p> <p>Description : ----- : -----</p> <p>Creator : -----</p> <p>Device : CF Card</p> <p>STORE PAGE</p>
3	<p>In the Codelist Panel:</p> <ul style="list-style-type: none"> • Select the Liscad example codelist. • Continue to the Coord System and Avge panels for those settings, if needed. • Press the F1 (STORE) button. 	 <p>16:17 MANAGE IR FAST I</p> <p>New Job</p> <p>General Codelist Coord System Avge</p> <p>Codelist : Liscad example</p> <p>STORE PAGE</p>

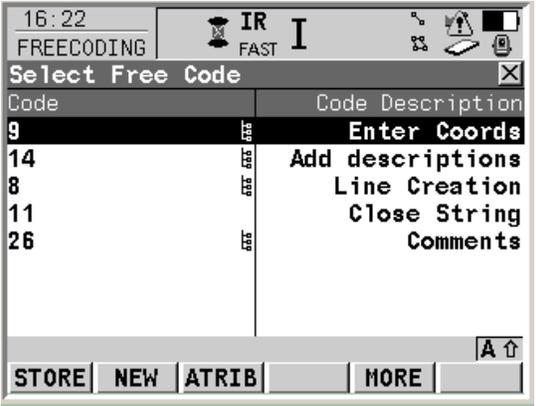
Continued on next page

Collect Data with Codes

Step	Action	Display
1	<ul style="list-style-type: none"> Perform the Station Setup as per normal procedure. <p>Important Note: The first setup of a new job can be done using the Known Azimuth method, but ALL following setups must be done using the Known BS Point method.</p>	
2	<p>In the Survey Panel:</p> <ul style="list-style-type: none"> Press the F6 (PAGE) button two times to go to the Code tab. Set the desired point code for the next measurement. If the point code is a line feature you will be prompted to define a line number. Collect as many points as needed on this CLNE1 figure. 	

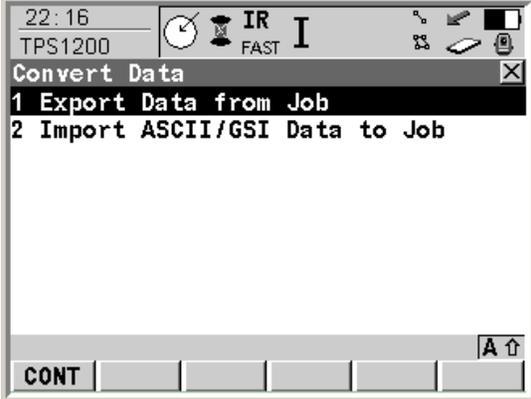
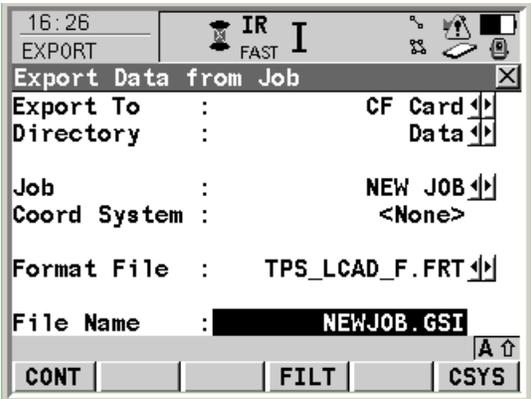
Continued on next page

Collect Data with Codes, *continued*

Step	Action	Display
3	<p>Use the Hot Key F7 FUNC Select Free Code to enter any operation code:</p> <ul style="list-style-type: none"> • Enter fixed coordinates. • Additional descriptions. • Complex line creation. • CLOSE the line on the starting point. • Enter comments. 	

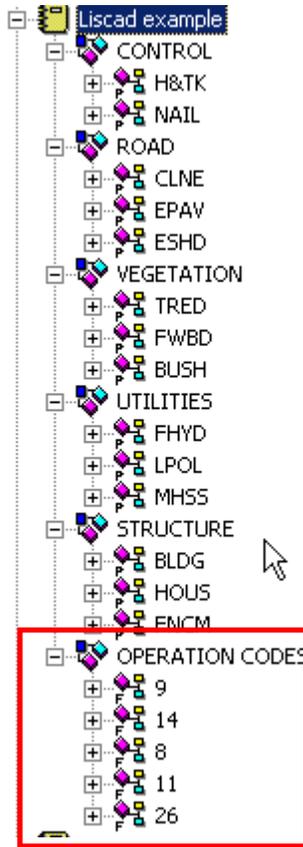
Continued on next page

Export the GSI File

Step	Action	Display
1	<p>From the Main Menu:</p> <ul style="list-style-type: none"> • Select 4 Convert... • Select 1 Export Data from Job. 	 <p>The screenshot shows a terminal window with a status bar at the top displaying '22:16', 'TPS1200', and 'IR FAST'. The main menu is titled 'Convert Data' and contains two options: '1 Export Data from Job' (which is highlighted) and '2 Import ASCII/GSI Data to Job'. At the bottom, there is a 'CONT' button and a cursor icon.</p>
2	<p>From the Export Data from Job Panel:</p> <ul style="list-style-type: none"> • Select the Job. • Select the Format File. • Enter a File name with the GSI extension. • Press the F1 (CONT) button to create the file. <p>Note: The file will be stored in the \DATA directory of the card.</p>	 <p>The screenshot shows a terminal window with a status bar at the top displaying '16:26', 'EXPORT', and 'IR FAST'. The main panel is titled 'Export Data from Job' and contains several fields with values: 'Export To : CF Card', 'Directory : Data', 'Job : NEW JOB', 'Coord System : <None>', 'Format File : TPS_LCAD_F.FRT', and 'File Name : NEWJOB.GSI'. At the bottom, there are buttons for 'CONT', 'FILT', and 'CSYS', along with a cursor icon.</p>

Continued on next page

Appendix A, Leica System 1200 Liscad Example Codelist



Point code Attribute 1 choice list

Attribute Properties

General

Attribute Name:

Attribute Type:

Value Type:

Value Region:

Default Value:

For value region 'None' there are no additional properties.

OK Cancel

Free codes for line creation

Code Name	Code Description	Quick Code	Type
9	Enter Coords		Free
14	Add descriptions		Free
8	Line Creation		Free
11	Close String		Free
26	Comments		Free