Exhibit No. ____ (RP-11) Switch Container Program Docket No. UT-023003

VzCost Technical Documentation:

Switch Container Program



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1.0 Getting Started

An account, login ID and password will be established for every user. Both the login and password are case sensitive.

The following software will be required.

- Oracle 8 Client
- Acrobat Reader Distiller
- BDE
- •
- 1. Double click on the "SETUPEX.EXE" file and follow the instructions.
- 2. Double click on "SWCONTSETUP.EXE" to access the Switch Container Program.

2.0 Overview

The Switch Container Program is an optional method of converting investments into Investment Elements (IE). The output is in a format suitable for upload into VZCost. Using the mapping process in the Container Program, allows the user a means of documenting the investments used to create IE(s).

3.0 Navigating the Screens

3.1 Main Screen

Below is a picture of the main screen.

Switch Container (Rem)	- 5WCA2003	Toolbar	<u>8 ×</u>						
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Container									
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E-Model TDM	GG ED UL TRUNK TERM	GTD5E0 Unit Invest Trunk Port	-81						
He Model TOPS	@G_RD_TI_UMB_TRUNK_CCS	GTD5 R0 Total Invest Unbilical Trunk CCS	-81						
E-PT	EQUINY_TOTAL D EQUINY_TOTAL D								
B-STATE SP DEMAND	DLE_GR303_PORT_INV_D	DLC_6R303_PORT_NV_D							
E TON INV	DLC_TR008_PORT_INV_D	IDLC_TROOB_PORT_INV_D							
E Interneciate Results	INV_1_GTD5_D	INV_1_GTD5_D	- 21						
1774 C. 1996 C.	INV_2_6TD5_0	INV_2_GTD5_D	-8						
	ISDN_PORT_BRUNV_D	ISDN_F0RT_8RL_NV_D	_51						
	ISDN_PORT_PRI_INV_D	ISDN_PORT_PRI_NV_D	-81						
	LINE_PORT_ANALOG_COIN_INV_D	LINE_PORT_ANALDG_COIN_INV_D	-81						
	LINE_PORT_ANALOG_INV_D	LINE_PORT_ANALDG_INV_D	-81						
	LINE_PORT_WEIGHTED_COIN_INV_D	LINE_PORT_WEIGHTED_COIN_INV_D	-81						
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	NON_TRAFFIC_SENSITIVE_TDM_INV_TOTAL_D	NON_TRAFFIC_SENSITIVE_TOM_INV_TOTAL_D							
	RFEAT_FEATURE_16_NV_D	RFEAT_FEATURE_16_INV_D							
	TDM_JNV_TDTAL_D	TDN_NV_TOTAL_D							
	TOPS_INV_TOTAL_D	TOPS_INV_TOTAL_D							
	TRAFFIC_SENSITIVE_ED_INV_TOTAL_D	TRAFFIC_SENSITIVE_EO_INV_TOTAL_D							
	TRAFFIC_SENSITIVE_E0_REC_COMP_INV_TOTAL_D	TRAFFIC_SENSITIVE_EO_REC_COMP_INV_TOTAL_D							
	TRAFFIC_SENSITIVE_TDM_INV_TOTAL_D	TRAFFIC_SENSITIVE_TDM_INV_TOTAL_D	_						
	TRAFFIC_SENSITIVE_TOM_FEC_COMP_NV_TOTAL_D	TRAFFIC_SENSITIVE_TDM_REC_COMP_INV_TDTAL_D	_						
	TRAFFIC_SENSITIVE_TOPS_NV_TOTAL_D	TRAFFIC_SENSITIVE_TOPS_INV_TOTAL_D	-81						
	TRAFFIC_SENSITIVE_TOPS_REC_COMP_INV_TOTAL_D	TRAFFIC_SENSITIVE_TOPS_REC_COMP_INV_T0TAL_D	-81						
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	TRUNK PORT TOM INV D	TRUNK PORT TOM INV D	-24						
			1						
			-						

The title bar lists the program name and the name of the last project retrieved.

The menu bar provides two functions for the user: File function and Run function.

3.2 The File Options

Change Password	List of Elements Meppi	ng Clipboard	Element Description	Input Data	Gulput							
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ave As	INV_1_6TD5_0	MJ_N		IDLC_TR008_PORT_INV_D								
rint Setup	INV_Z_GTD5_D			INV_1_6TD5_0								
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rink All Napping	ISON_PORT_PRI_INV				RT_PRI_INV_D							
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	TOM JNN_TOTAL D			TDM_INV_TOTAL_D								
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	TRAFFIC_SENSITIVE			TRAFFIC_SENSITIVE_E0_REC_COMP_INV_TOTAL_D								
	TRAFFIC_SENSITIVE			TRAFFIC_SENSITIVE_E0_NOV_TOTAL_0								
	TRAFFIC_SENSITIVE			TRAFFIC_SENSITIVE_TOM_REC_COMP_INV_TOTAL_D								
	TRAFFIC SENSITIVE			TRAFFIC_SENSITIVE_TOPS_INV_TOTAL_D								
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	[[Institut]											

3.2.1 Change Password

A new user is assigned a password to access the program. If you want to change your password, select this option.

3.2.2 New

Three (3) tables are required to establish a project: Element Mapping Table, Value Table and the Investment Element Table. This option will create these tables without data (empty tables to be populated).

Once the table is created, it can be used to create tables containing data when the Copy option (section 3.2.7 of this guide) and/or the Import option (section 3.2.8 of this guide) is selected.

When the New option is selected, another pull down screen will appear.

Change Password	List of Elements	Mapping Clipboard	Element Description	Input Dista	Dutput						
New 🔸	Element Napping	IDUC GB	303_PORT_INV_I	Ϋ́		C. C. A.	1				
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	H	-		> 1	+	-		1	1 %		
Create V2Cost Transfer File	[[Element			Description							
Copy Table	GG ED UI UN	E_TERM_WEIGHTE	D EO RO	GTD5E0	Unit Invest Line Te	m Weighted					
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Print: Output: Table	and the second se	LINE_PORT_ANALOG_INV_D			T_ANALOG_INV						
init .	LINE_PORT_WEIGHTED_COIN_INV_D				T_WEIGHTED_CI						
	and the second s	LINE_PORT_WEIGHTED_INV_D				IV D					
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	NON_TRAFFIC		FFIC_SENSITIVE								
	RFEAT_FEATUR	E_16_NV_D		RFEAT_FEATURE_16_INV_D							
	TOM JNV_TOTA	LD		TDN_NV_TOTAL_D							
	TOPS INV TOT	AL_D		TOPS_INV_TOTAL_D							
	TRAFFIC_SENSI	THE ED NY TOT	ΔL_D	TRAFFIC_SENSITIVE_EO_INV_TOTAL_D							
	TRAFFIC_SENSI	THE_EO_REC_CON	P_INV_TOTAL_D	TRAFFIC_SENSITIVE_E0_REC_COMP_INV_T0TAL_D							
	TRAFFIC_SENSI	THE_TOM_INV_TO	TAL_D	TRAFFIC_SENSITIVE_TOM_INV_TOTAL_D							
	TRAFFIC_SENSI	THE_TOM_REC_CO	MP_INV_TOTAL_D	TRAFFIC_SENSITIVE_TOM_REC_COMP_INV_TOTAL_D							
	TRAFFIC_SENSI	THE TOPS INV TO	TAL D	TRAFFIC_SENSITIVE_TOPS_INV_TOTAL_D							
	TRAFFIC_SENSI	THE_TOPS_REC_D	OMP_NV_TOTAL_D								
	TRUNK_E0_INV	TOTAL D		TRUNK_ED_INV_TOTALD							
	TRUNK_PORT_	ED_INV_D		TRUNK_P	ORT_EO_INV_D						
	TRUNK_PORT_	TDM_INV_D		TRUNK_P	DRT_TOM_INV_D						
	-										
	The second se								-		

• Element Mapping – This option creates the List of Elements table. The "New Element Mapping Table " screen will appear. Enter a name, in the cell located in the lower section of the screen and click the create button. To exit the screen, click cancel button. The ability to create element mapping is also established at this time.

To create the Element Mapping Table containing elements and mapping from a previous project, use the Copy Table option on the File menu (See section 3.2.7 of this guide).

The Element Mapping Table can be viewed in two parts. Click the *Element Name Tab* to view the elements and descriptions. Click the *Mapping Tab* to view the element mapping.

Mapping can be done in a two-step process: first intermediate and final mapping for an IE. Essentially, the first intermediate mapping(s) is used to create the final mapping. First intermediate mappings will appear in the Tree View, identified with an "@" at the beginning of the IE name

• Value – This option creates the Input Data Table. The "New Value Table" screen will appear. Enter a name in the cell located in the lower section of the screen and then click the create button. To exit the screen, click cancel button.

To create this table containing input data, consider the Copy option on the File menu (See section 3.2.7) or the Import option on the File menu (See section 3.2.8 of this guide).

The Value Table can be viewed by clicking the Input Data Tab.

• Inv Elements – Every project requires an output table. To create the Output Table, select this option. The "New Investment Element Table" screen will appear. Enter a name in the cell located in the lower section of the screen and then click the create button. To exit the screen, click cancel button.

The mapping results will be placed in this table, once the Process option on the Run menu is selected (See section 3.3.2 of this guide).

This table can be viewed by selecting the Output Tab.

3.2.3 Delete

Change Password	List of Elements Mi	apping Clipboard Element De	scription Inpu	Data D	utput						
kos 🔸		DLC GR303 PORT	T INV D			C Direct	<u> </u>				
kelete 🕨	Element Mapping Value	lana 2 an or a 2 an o		-		C Shared	1		1 marshall		
roject ·	Inv Elemente		🔽 See Data Warnings			C Other	Clear Filter		Set Filter		
heate VoCost Transfer File	E letter	• •	PI		+	-	•	1	16		
opy Table	Element	TERM WEIGHTED_EO_RO		eactiphion	Almost Line Ter	and the last state of					
nport	@G_EO_UL_TRU			GTDS ED Unit Invest Line Term Weighted GTDS ED Unit Invest Tunk Pot GTDS FD Total Invest Unit Indianal Tunk CCS							
sport input as CSU	@G_RD_TLUMB										
	EQ_INV_TOTAL_I			EQ_INV_TOTAL_D							
oad Components	DIDLE GR303 POP				and the second sec	2					
eve Conpanents ave Ac	IDLC TRUG POP	the state of the s		IDLC_6R303_PORT_NV_D IDLC_TROOD_PORT_INV_D							
ave As	INV_1_GTD5_D	n_mr_o		INV_1_GTD5_D							
rint Setup	INV 2 STD5 D			INV 2 GTD5 D							
rint: Mecoling	ISDN_PORT_BRI	INV D			BRLINV_D						
rint All Mapping	ISDN PORT PRI	and a second			PRI NV D						
rint Input Table	LINE_PORT_ANAL				ANALDG_COIN	N/ 0					
nink Oukput: Table	LINE_PORT_ANA			ANALOG INV	and the second se						
Action	and the second s	GHTED_COIN_INV_D			WEIGHTED_CO						
		LINE_PORT_WEIGHTED_INV_D			WEIGHTED IN						
		NON TRAFFIC SENSITIVE ED INV TOTAL D			Water Contractor States of	EO INV TOTAL I	D				
		NON_TRAFFIC_SENSITIVE_TDM_INV_TOTAL_D				TOH INV TOTAL					
	the second	RFEAT_FEATURE_16_NV_D				RFEAT_FEATURE_16_INV_D					
	and the second se	TDM_INV_TOTAL_D				TDN_NV_TOTAL_D					
	TOPS INV TOTAL	LD	T	TOPS INV_TOTAL D							
	TRAFFIC SENSIT	TRAFFIC SENSITIVE ED INV TOTAL D				TRAFFIC SENSITIVE ED INV TOTAL D					
	AND INCOME IN CONTRACTOR OF A DESCRIPTION OF A DESCRIPTIO	NE_EO_REC_COMP_INV_TOT		TRAFFIC_SENSITIVE_E0_REC_COMP_INV_T0TAL_D							
	and the second se	NE_TOM_INV_TOTAL_D		TRAFFIC_SENSITIVE_TDH_JNV_TDTAL_D							
		NE_TOM_REC_COMP_NV_TO		TRAFFIC_SENSITIVE_TDM_REC_COMP_INV_TDTAL_D							
	TRAFFIC_SENSIT	NE_TOPS_INV_TOTAL_D	T	TRAFFIC_SENSITIVE_TOPS_INV_TOTAL_D							
	TRAFFIC_SENSIT	ME_TOPS_REC_COMP_NV_T	TALD TI	AFFIC_S	ENSITIVE_TOPS	REC_COMP_INV	TOTALD				
	TRUNK_E0_JNV_	TOTAL_D	T	NUNK_EO	JNV_TOTAL_D						
	TRUNK_PORT_E	0_NV_D	11	IUNK_PO	RT_EO_INV_D						
	TRUNK_PORT_1	DM_NV_D	T	IUNK_PO	BT_TOM_INV_D						
	4										
	HARMAN			_					-		

To delete an Element Mapping Table, Value Table and/or Investment Element Table, select this option.

- Element Mapping –The "Delete Element Mapping Table " screen will appear. Select the table to be deleted and click the delete button. To exit the screen, click cancel button.
- Value The "Delete Value Table" screen will appear. Select the table to be deleted then click the delete button. To exit the screen, click cancel button.
- Inv Elements The "Delete Investment Elements Table" screen will appear. Select the table to be deleted then click the delete button. To exit the screen, click cancel button.

3.2.4 Share

Change Password	List of Elements Mag	ping Clipboard Element Description	Input Data Dutp	¢.						
New P	Element Name	DLC_GR303_PORT_INV_I	D		C Direct					
ihare 🕨	Element Mapping		V See Da	is falleminge.	C Shared	Clear Filter		Set Filter		
roject	Value		14 36C D4		C Other	CENTITIES				
Veate VoCost Transfer File	IE lement		►i Description	+	-	*		16		
lopy Table		ERM_WEIGHTED_EO_RO		namet Line Ter	in the initial state					
nport	GG EO UI TRUN			GTD5E0 Unit Invest Line Term Weighted GTD5E0 Unit Invest Trunk Port						
sport input as CSU	@G_RD_TLUMB_T			GTD5 ED Drittinget Turk Fox GTD5 PD Total (west Unbligal Turk CCS						
	EQ_INV_TOTAL_D EQ_INV_TOTAL_D									
oad Components	DIDLE GR303 PORT	INV D		IDLC 6R303 PORT NV D						
eve Conponents ave Ac	IDLC TROOS PORT	A sea Barren and a sea sea sea sea sea sea sea sea sea s	IDLC TROOP PORT INV D							
Linner Mile	INV_1_GTD5_D	0.000	INV_1_GTD5_D							
rint Setup	INV 2 GTD5 D		INV_2_GTD5_D							
hint Mecoling	ISDN_PORT_BRIJI	W D	ISDN_FORT_8							
rint Al Mapping	ISON PORT PRI I	121 - 12	ISON FORT P							
rint Input Table	LINE PORT ANALI	An an an a state of the state of the state	LINE_PORT_A		NV D					
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sik.	LINE_PORT_WEIG	Contraction of the local sector of the local s	LINE_PORT_W							
	LINE PORT WEIGH	HTED INV D	LINE PORT W	EIGHTED IN	V D					
	NON_TRAFFIC_SET	SITNE ED INV TOTAL D	NON_TRAFFIC	SENSITIVE I	EO_INV_TOTAL_	D				
	NON_TRAFFIC_SET	SITME_TDM_INV_TOTAL_D	NON_TRAFFIC	SENSITIVE_	TON_INV_TOTAL	0				
	RFEAT_FEATURE_	16_INV_D	RFEAT_FEATURE_16_INV_D							
	TOR JNV_TOTAL	0	TDN_INV_TOTAL_D							
	TOPS INV_TOTAL	D	TOPS_INV_TOTAL_D							
	TRAFFIC_SENSITIN	E_ED_INV_TOTAL_D	TRAFFIC_SENSITIVE_EO_INV_TOTAL_D							
	TRAFRC_SENSITA	E_EO_REC_COMP_INV_TOTAL_D	TRAFFIC_SENS	ATME_EO_R	EC_COMP_INV_T	OTAL_D				
	TRAFFIC_SENSITIN	E_TDM_INV_TOTAL_D	TRAFFIC_SENSITIVE_TOM_INV_TOTAL_D							
	TRAFFIC_SENSITI	E_TDM_REC_CDMP_INV_TOTAL_D	TRAFFIC_SENSITIVE_TOM_REC_COMP_INV_TOTAL_D							
		E_TOPS_INV_TOTAL_D	TRAFFIC_SENS							
	and a real france of the second second second	E_TOPS_REC_COMP_INV_TOTAL_D	and the second se		REC_COMP_INV	TOTAL_D				
	TRUNK_EO_INV_T	and the second sec	TRUNK_EQ_IN	and the second part of the second						
	TRUNK_PORT_ED		TRUNK_PORT							
	TRUNK PORT TO	M_INV_D	TRUNK PORT	TDM INV D						
	•									

A user can share or revoke the ability to share tables with other users, when this option is selected. Only the table(s) currently in use will be shared.

- Element Mapping The "Table Access" screen will appear. The name of the table will appear on the right of the screen name. Select the name of the user then click the appropriate button: grant or revoke. To exit the screen, click the exit button.
- Value Table The "Table Access" screen will appear. The name of the table will appear on the right of the screen name. Select the name of the user then click the appropriate button: grant or revoke. To exit the screen, click the exit button.

The recipient of the shared table(s) can read or copy the table(s); they cannot change table entries.

3.2.5 Project

restment Elemento ritainer	List of Elements N	(apping) Cipboard Element	Description Input Data	Dutput				
die	Element Name				C Direct			
estant 55 NV			🔽 S	ee Data Warnings	C Shared C Other	Clear Filter	1	Set F
MAND	Te: 1	2 N	M	- 10 C	-	(1	1 %
IS INV DS INV								
idel Offices idel TDM	ner Project Manago							
IN TOPS	SWCA2003			Project				
ATE SP DEMANI NEW	2003	SWC42008						
IN INV SS7A IPS INV SWD2	A2003							
omediate Results	2001	Elements	SW_ELEMAP_CA200	3			14	
							-	
		Values	SW_VALUES_CA2003					
		68630					-	
		Investment Elements	SW-INVELEN_CA200	3				
				7				
		Switch Container Project for	California 2003. Test proje	50t.			-	
							8	
							-1	
· · · · ·								
		New	Select Delete	Cancel	Ext			
					-			

Once all the table have been created or identified (i.e. Element Mapping table, Value table and Investment Element table), a project can be established. This option will define the project: project name, which tables will be used to create this project and the project description. When the "Confirm" screen appears, click the okay button to save project changes to the server.

The next screen to appear is the "Container Project Manager" screen. The screen buttons are as follows.

• New - To establish a new project, click on the new button. The default project name, New, will appear in the first cell. Rename the project by entering another project name. In the next cells enter the name of the Elements Table, Values Table and the Investment Elements Table or a list of available tables will appear when you click on the gray cells to the right of the Elements, Values and Investment Elements. Select the tables required. In the bottom section of this screen, enter a project description. Click the select button.

To save the entries and exit the screen, click the exit button.

- Select The last project accessed will be listed in the project cell. If another project is required, click on the project name listed on the Tree View located on the left of the "Container Project Manager" screen. Click this button to exit the screen and return to the main screen. The tables for the project selected will appear.
- Delete To delete a project, select the project then click this button.
- Cancel If tables assigned to a project were changed and the user will not want to save these table changes, select this button. The main screen will appear with the original tables associated with the project.
- Exit -Project changes will be saved and the user will be returned to the main screen, when this button is selected.

3.2.6 Create VzCost Transfer File

To save the output file into a VzCost Transfer File, select this option. A "Save" screen will appear. Select a folder and enter a file name.

3.2.7 Copy Table

The Copy Table option creates a new table and copies the data from an existing table to this new table. The existing table is listed in the Source cell on the "Copy Table" screen and the new table name is entered in the Destination cell on the "Copy Table" screen

Source tables are Element Mapping, Value and Investment Elements tables. When the Copy Table option is selected, the "Copy Table" screen appears. Enter the source table in Source cell or click the select button below the Source cell. When using the select button, a list of available tables will appear. Select the appropriate table. Enter the destination then click the copy button.

The "Information" screen appears, stating the table has been copied. Click okay button to return to the "Copy Table" screen.

To exit this option, click the exit button.

3.2.8 Import

The input data can be imported to SS7 Container Program.

To import a file, select the **Input Tab** then select Import from the File menu. After selecting this option, the "Open" screen will appear. Locate the file to import. Click the open button.

For the Input file format, see Section five (5) of this guide.

3.2.9 Export Input as CSV

Changes to the Input file can be made within the SS7 Container Program; however, those changes are not automatically saved on the original Input file. This option allows the user to save the program Input file, as a CSV file, to another source.

3.2.10 Load Components

During the mapping process, the clipboard may be used to retain containers, which will be used to develop several IE(s). The user can load these saved mapping components from another source such as "C" drive, using this option.

When this option is selected, the "Open" screen will appear. Select the source of the mapping components and click the open button.

3.2.11 Save Components

If mapping components located on the clipboard are to be used for later projects, these components can be saved to another source using this option. Select this option and the "Save As" screen will appear. Select where the mapping will be saved then click the save button.

3.2.12 Save As

Select this option to save the Component file. Enter a file name and select where the file is to be saved.

3.2.13 3.2.13 Print Setup

This option will allow the user to select various printer options. After selecting *Print Setup*, the "Print Setup" screen will appear. Select the appropriate options on this screen then click the okay button.

3.2.14 Print Mapping

To print the mapping and equations as they appear on the mapping screen, select this option. The mapping will print automatically to the printer designated on the "Print Setup" screen. Default is the printer connected to the user's PC.

3.2.15 Print All Mapping

To print all mapping for a project, select this option.

3.2.16 Print Input Table

The Input Table can be viewed via the Input Tab. Use this option to print the table.

3.2.17 Print Output Table

The Output Table can be viewed via the **Output Tab**. Use this option to print the table. When this option is selected, the "Report Viewer" screen will appear.

3.2.18 Exit

To exit or end the Container Program, select this option. The "Confirm" screen will appear. Click "OK" to save project changes to the server and exit the program.

Test	lemento	List of Elements	Mapping Clipboard El	ement Description	Input Dista	Dutput					
Process		Element Name	@5E_E0_T	LGS_E0_RO			C Direct	-			
Constant		1				e Data Warnings	C Shared	Charlen Lines		Set Filter	
E SESS INV					N 30	e u ala wanings	@ Other	Clear Filter		30.760	
E DEMAND E DNS INV		14	-		*	+	-		1 2	18	
H-GTD5 NV		Element			Description	New Streetwork					
8-Model Difica	5	ESE ED TI GS	E0_R0		SESS ED T	otal Invest Gatting	Started				
E-Model TDM		@5E_E0_TI_ISI	DN_BRI		SESS ED 1	otal Invest BRI					
IE - Model TOP	5	@5E_E0_TI_ISI	DN_D_CHAN_ACC		SESS ED 1	otal Invest D Char	mel Access PPS				
B-PT @@E_E0_TIJSDN_LINE_CCS				SESS ED 1	otal Invest ISDN L	ine CES					
B-STATE SP DEMAND					SESS ED Total Invest PRI B Channel						
H TOPS INV		@5E_E0_T(_)SI	DN_PRI_D_CHAN		SESS E0 1	otal Invest PRI D I	Channel				
Intermediate Results					SESS ED Total Invest SM Real Time EPHC						
		@SE_E0_TI_LP	NE_CCS_ED_RO		SESS ED Total Invest LINE CCS						
		@CE_E0_TI_LP	NE_TERM_A_ED_RO		CESS ED 1	otal Invest Line Te	am A				
		@5E_E0_TI_LM	NE_TERM_C_ED_RO		SESS ED T	otel Invest Line Te	sm C				
		@SE_EO_TI_LM	NE_TERM_D_EO_RD		5E55 E0 1	otal Invest Line Te	em D				
	@SE_EO_TI_SM	LEPHC_ED_RO		GESS ED 1	otal Invest SM EP	нс					
	@SE_EO_TI_SN	LEPHC_UMBIL_ED_RO	SESS ED 1	otal Invest Unibilic	al Trunk CCS						
		GSE_EO_TI_SS	7_LINK	SESS ED 1	otal Invest SS7Li	nk					
		@5E_E0_TL_TE	GEE_EO_TI_TERM_CALL_EO_RD			Intel Invest Term D	d				
		@SE_EO_TI_TP	NUNK_CCS	SESS ED 1	otal Invest Trusk I	CCS					
		@SE_EO_ULBR	3	SESS ED Unit InvestISDN_BRI Port							
		@CE_EO_ULU	NE_TERM_A_ED_RD		SESS ED Unit Invest Line Term A						
		GEE EO UL LI	NE TERM ANALOG A	SESS ED Unit Invest Line Term Analog_A							
		@5E_E0_UL_U	NE_TERM_ANALOG_C_	E0_RO	SESS E0 Unit Invest Line Term Analog_C						
		@6E_E0_ULU	NE_TERM_ANALOG_D_	EO_RO	SESS ED Unit Invest Line Tern Analog_D						
		@SE_EO_ULU	NE_TERM_C_EQ_RD		SESS ED Unit Invest Line Term C						
		@SE_EO_ULU	NE_TERM_D_ED_RO		SESS ED Unit Invest Line Terrs D						
		035E_E0_UL_U	NE_TERM_GR303_A_E	0_R0	SESS ED Unit Invest Line Term BR303_A						
		@SE_EO_ULU	NE_TERM_GROOD_C_E	0_R0	SESS ED Unit Invest Line Term GR303_C						
		@6E_E0_ULU	NE_TERM_GROOD_D_E	0_A0	EESS ED Unit Invest Line Term GR303_D						
			NE_TERM_TROOS_A_EC		SESS ED Unit Invest Line Term TROD8_A						
		GEE EO UL UN	NE_TERM_TROOS_C_EC	DAT	SESS ED L	Ind Invest Line Tee	n TROOS_C				
		-								00000	
		The second s									

3.3 The Run Options

3.3.1 Test

Once mapping is complete, select this option to review the results. The content and results of each container and a summary of the results is listed at the bottom of the screen. Move the horizontal bar to reduce or increase that section of the screen. If the mapping is correct, click the *Save Mapping Tab*.

If changes are required, complete changes, click the *Save Mapping* speed button then select Test again.

3.3.2 Process

Once the mapping is complete for all IE(s), select the Process option. This option creates the output file in the format of an input file to VZCOST. To view these results, select the *Output Tab*.

3.4 The Tree View

This screen is located to the far left section of the program screen. Here input data file contents (also referred to as pre-elements), the container, the modifier and the constant objects are listed.

e-Investment Elemento Container	Liz Elements Map	bing Clipboard	Element Descript	ion Input Data	Dutput							
Modiler	Element Name	@5E_E0	_TLGS_EO_F	10		C Direct						
Constant SESS NV	1	- 74		V	iee Data Warnings	C Shared	Clear Filter		Set Fi			
DEMAND	A					o Uner						
DNS INV	H		•	H	+	-		1. 16	1			
GTD5 INV	IE lemant			Descripti		and the second s						
-Model Difices	E GEE EO TI GS EO	and the second se			SESS ED Total Invest Getting Started							
-Model TDM	@5E_EO_TI_ISDN_				SESS ED Total Invest BRI							
- Model TOPS - PT	@5E_E0_TI_ISDN_				5ESS ED Total Invest D Channel Access PPS							
STATE SP DEMAND	@CE_EO_TIJSDNJ	stores and a second second labor to farm			SESS ED Total Invest ISDN Line CES							
TON INV	QSE ED TI ISDN I	and the second second second		-	SESS ED Total Invest PRI B Channel							
TOPS INV	@SE_EO_TI_ISDN_I				SESS ED Total Invest PRI D Channel							
Internediate Results	@6E_EO_TI_ISDN_S	and state of the same of the same is a same of	PIO		5ESS E0 Total Invest SM Real Time EPHC 5ESS E0 Total Invest LINE CCS							
	@CE_EO_TI_LINE_C	of the state of th	-		and the second se	200						
	@CE_EO_TI_LINE_T	and have been a second s			Total Invest Line Te							
	QSE_EO_TI_LINE_T				Total Invest Line Te							
	@SE_EO_TI_LINE_T		D		Total Invest Line Te							
		@5E_E0_TI_SM_EPHC_E0_R0			Total Invest SM EPH							
	@SE_EO_TI_SM_EPHC_UMBIL_ED_RO				Total Invest Unbilica							
	and the second se	@SE_EO_TI_SS7_UNK			Total Invest SS7Lin							
	GEE_EO_TI_TERM				SESS ED Total Invest Term Call SESS ED Total Invest Truck CCS							
	GEE_EO_TI_TRUN	Cocs										
	@6E_E0_ULBRI		-		SESS ED Unit InvestISDN_BRI Port							
	@SE_EO_ULLINE_1				SESS ED Unit Invest Line Term Analog A SESS ED Unit Invest Line Term Analog A							
	QSE EQ UI LINE 1											
	@SE_EO_ULLINE_1				Unit Invest Line Ten							
	@SE_EO_ULLINE_1	and the second sec			SESS ED Unit Invest Line Term Analog_D							
	@CE_EO_ULLINE_1	and the second se			Unit Invest Line Ten							
	@SE_EO_ULLINE_1			-	Linit Invest Line Ten							
	GEE ED UL UNE				Unit Invest Line Ten							
	@5E_E0_ULLINE_1				Unit InvestLine Ten Unit InvestLine Ten							
	@6E_E0_ULLINE_1	and the second second second second			and the set of the set of the set of the set of the							
	@SE_EO_ULUNE_1				i Unit Invest Line Ten I Unit Invest Line Ten							
		TEHW_THUB	LEU HU	SESSEL	Lind Invest Lane Ten	n THUUS L						
	4											

3.4.1 Container

The container is where the mapping procedure takes place, after selecting the *Mapping Tab*. Click on the word "container" on the Tree View. Drag and drop it in the workspace. In the lower section of the container, the modifier is dragged and dropped to perform operations on the pre-elements.

Container can be named or labeled. This is helpful especially if many containers are required in a mapping an IE. To label a container, point to the container and right click the mouse. A text cell will appear. In the section, which reads "Name", enter a name for the container. To save and exit this function, double click on the property section of the cell.

When you test run the mapping, the label(s) will appear in the bottom portion of the screen with the formula listing.

3.4.2 Modifier

The modifier is where the operators (mathematical operations such as plus, minus, multiple and divide) are selected. Click on the word "modifier" on the Tree View then drag and drop it in the container. The default operator is multiplication. Right click the mouse to perform the basic Microsoft functions such as copy, cut and paste.

The modifier is light olive in color to distinguish it from the container.

3.4.3 Constant

During the mapping process, a constant value may be required for most if not all IE(s). This option will maintain that constant value. Drag and drop the word "constant" from the Tree View to the workspace, container or the modifier. A small white cell will appear. Right click on the mouse while keeping the cursor on the white cell and a drop down menu will appear. Select the appropriate option from this menu.

3.5 Tabs

List of Elements Map	ping Cipboen	d Element Descri	ption Input Data	Output			
Element Name	@5E_E	O_TLGS_EO_	RO		C Direct	-	
			P s	ies Data Warrings	C Shared C Dinei	Clear Film	
14		2	H	+	-		11
	Element Name	Element Name @SE_E	Element Name @SE_EO_TI_GS_EO_	Element Name @SE_E0_TI_G5_E0_R0	🖓 See Dala Warrings	Bernerit Name @SE_EO_TI_GS_EO_RO C Diact Shared See Data Warrings C Diact Shared Shared Diact Di	Element Name @SE_EO_TI_GS_EO_RO C Diract Shared C Diract C Shared C Diract

3.5.1 List of Elements

The existing elements and descriptions will appear on the screen, once this button is selected. If this is a new project, the screen is empty.

All intermediate IEs should be identified with "@" in the beginning of the IE name. These IEs will appear in the Tree View because they are used to create mapping for other IE(s).

3.5.2 Mapping

Select an element by clicking the cell to the left of the element name. When this button is selected, the mapping for that element will appear. You can modify the mapping at this time. If you want to save the modifications, select the *Save Mapping* speed button.

If this is a new IE, select container(s), modifier(s), pre-elements (listed on the Tree View) and operators required to create the desired IE.

3.5.3 Clipboard

Use the clipboard to copy and/or paste mapping information.

3.5.4 Element Description

The description of the elements will appear, when this tab is selected. Selecting the *Upward Arrowhead* speed button to modify an existing description. Click on the section of the screen where the description appears and complete the change. To save the changes, click on the *Check Mark* speed button.

If a new IE is being developed, enter the description in the workspace, then click the *Check Mark* speed button to save it.

3.5.5 Input Data

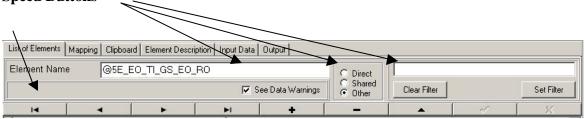
To view the data in the input file, click on this tab. This screen will allow you to modify the existing information. Once any changes are made and saved, the Container Program will maintain those changes. The original CSV file, which was uploaded into the Container Program, will not be changed. Use the Export Input as CSV option, on the File menu, to create a new input file (See section 3.2.9 of this guide).

Note: The values in the table can be changed. However, if the item name is changed, any existing mapping that used that item name will not process. The mapping will have to be changed to reflect the new name.

3.5.6 Output

Once the mapping is complete and is processed, the output of the mapping can be viewed via this screen.

3.6 Speed Buttons



3.6.1 See Data Warnings

The program checks data and provides warning statements if data is missing from the mapping prior to testing. The statements will appear in the bottom section of the mapping screen where the equations appear. A check mark in the cell indicated the warning statements will appear. If the user does not want to see these warnings, click in the cell to remove the check mark.

3.6.2 Direct, Shared, Other

IE(s) should be indicated as direct, shared or other. Select the appropriate option.

3.6.3 Clear Filter and Set Filter

Below is a view of these speed buttons as they appear on the main screen.

IODE2='Trunks'	
Clear Filter	Set Filter

Use Clear Filter and Set Filter speed buttons to view specific data in the table tabs (i.e. *List of Elements, Input Data* or *Output*). For example, to view only input data identified as AIN, in the column heading, NODE3, place the cursor in the speed button input window. Type in the information as it appears in the above view then click the *Set Filter* button. In this example, the *Input Data* tab screen will display only data, which list AIN in the NODE3 column. To view all of the data in that table, cancel the filter by selecting the *Clear Filter* speed button.

Also, only those records that meet a filter's conditions are available to an application. For example, if you want to create mapping using only AIN information as defined above, the Tree View would list only the records with NODE3 equals AIN.

To filter strings bases on partial comparisons, use an asterisk as a wildcard. For example:

JURISDICTION = 'M*'

Other operators are as follows.

Operator	Meaning
<	Less than
>	Greater than
>=	Greater than or equal to
<=	Less than or equal to
=	Equal to
\Leftrightarrow	Not equal to
AND	Tests two statements are both True

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NOT	Tests that the following statement is not True	
OR	Tests that at least one of two statements is True	
+	Adds numbers, concatenates strings, ads numbers to date/time values (only available for some drivers)	
-	Subtracts numbers, subtracts dates, or subtracts a number from a date (only available for some drivers)	
*	Multiplies two numbers (only available for some drivers)	
/	Divides two numbers (only available for some drivers)	
*	Wildcard for partial comparisons	

By using combinations of these operators, you can create fairly sophisticated filters. For example, the following statement checks to make sure that two test conditions are met before accepting a record for display:

(NODE2 = 'STP') AND (NODE3 = 'A link')

3.6.4 Left Arrowhead Blocked

This speed button places the cursor on the first record.

3.6.5 Left Arrowhead

The cursor is moved to the previous record listed on the screen when this speed button is selected.

3.6.6 Right Arrowhead

The cursor is moved to the next record listed on the screen.

3.6.7 Right Arrowhead blocked

The cursor is moved to the last record listed on the screen.

3.6.8 Plus Sign

Insert a new record.

3.6.9 Minus Sign

Omit the record the cursor is on.

3.6.10 Upward Arrowhead

Edit the record the cursor is on.

3.6.11 Check Mark

Post or save the edit.

3.6.12 X

Cancel the edit.

4.0 Input Files

The input file is a CSV file, which is uploaded into the SS7 Container Program and viewed in the program when the *Input Data* tab is selected. See *Import* in the dropdown menu screen option, **File** for more details.

The input data in this file will determine the structure of the Tree View. The file format is as follows.

Column	Input Data		
Jurisdiction	Project Jurisdiction (e.g. CA)		
Node 1	Main branch of the Tree View on the main screen. Node 1 items		
	are listed below.		
	1. X INV ($x = $ Switch Type)		
	2. TDM INV		
	3. TOPS INV		
	4. Model Offices		
	5. Model TDM		
	6. Model TOPS		
	7. PT		
	8. State SP Demand		
Node 2	Second branch of the Tree View on the main screen. General		
	description of the worksheet that contains the input data.		
Node 3	Third branch of the Tree View on the main screen. General title of		
	the column headings as they appear in the worksheet which		
	contains the input data.		
Description	Description of the input element.		
Element	Input element name. This name will appear on the Tree View and		
	will be used to develop the Investment Element mapping.		
Value	Input element value. This value will be used to create the		
	Investment Element investments, which appear in the Output file.		

Node 1	Spreadsheet	Worksheet	
X INV	Y X Model	SCIS EO Outputs and SCIS	
		RO Outputs	
TDM INV	Y TDM-TOPS Weighting Model	SCIS TDM and TOPS MO	
		Outputs	
TOPS INV	Y TDM-TOPS Weighting Model	SCIS TDM and TOPS MO	
		Outputs	
Model Offices	Y X Model	SCIS Input Statistics EO	
		and SCIS Input Statistics	
		RO	
Model TOPS	Y TDM - TOPS Weighting Model	TDM and TOPS Statistics	
Model TDM	Y TDM - TOPS Weighting Model	TDM and TOPS Statistics	
PT	Switch Container Program Outputs		
State SP Demand	Y X Model	State Specific Demands	
		(Note: state specific	
		demands are common to all	
		switch types.)	

The data sources for the input file are as follows.

X =Switch Type

Y = State

PTs are past through values. Once the project is processed (see Section 3.3), a dialog box will appear. Select the yes button to create PTs.

5.0 Begin a new proje	ect
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STEPS	TASK	REFERENCE
1	Create Tables (e.g. Element Mapping table, Value table	Section 3.2.2 and/or
	and Investment Element table)	Section 3.2.4
2	Create and define the Project.	Section 3.2.5
3	Create IE(s).	Section 3.5.1 and
	On the <i>List of Elements</i> tab, enter the IE name in the	Section 3.5.4
	Element Name box.	
	Select direct, shared or other on the toolbar. If the IE is	
	an intermediate IE, place "@" as the first character of	
	the IE name.	
	On the <i>Element Description</i> tab, enter the IE	
	description and click the check mark, on the toolbar to	
	save the information.	
4	Create mapping.	Sections
		3.3
		3.4
		3.5.2
		3.5.3
5	Create Output table.	Section 3.3.2 and
		Section 3.5.6