Using OCH Online

User's manual

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Preface

This manual describes functionality and features of the new OCH Online.

Terminology and Abbreviations

Term	Definition
ICH	Internal Clearing House
ОСН	Operators Clearing House
GUI	Graphical User Interface
URL	Uniform Resource Locator

1 Overview

This diagram shows the setup with the OCH3 Server and the database.

The diagram shows the web server which holds OCH Online placed in a setup with the OCH3 Server and the Database Server, which holds the National Number Plan. Both Servers accesses the same database on the Database Server.



2 The OCH Online web GUI

2.1 GUI layout

The OCH Online web GUI allows the user to search and view ongoing transactions, orders and history on given telephone from the National Number Plan database, Order dumps and reports, view reports, administrate Notices, Users and Operators etc... This will all be described further in this document. The GUI consists of a number of tabbed pages, as shown in the figure below.

							10197
low	Telephone Number	Data request	Administration	System	Info	Help Languag	je Log out
Welc	ome Page				Welcor	me Page	
Warı	nings				Warnin Releas News	ngs se Information	Collapse All Notices
No W	arnings						
New	S						
No Ne	WS						
Rele	ase Information						
No Re	lease information						
			VIIIIA	4		No.	

Most of the tabbed pages contain a list of menu items (in the form of link fields) and an area where the currently relevant dialog fields and buttons are displayed.

Note: Mandatory fields are marked by a blue validation ball next to the field. A grey ball means that the field hasn't been filled out yet, while a green ball indicates that the field has been filled out correct(in some cases initially with a default value to show the required format for the entry). A grey ball marks optional fields.

2.2 Login

When entering the URL http://<IP adress>:<Port Number>/och-online/ the user is directed to the Login page shown below.



2.3 Access rights

The site shows a various group of tabs and menus depending on the access rights the user has been granted. The matrix on the next page shows available menus for each access right:

ME	enu item/ role	Service Center	Operator Admin	Operator User	Passive admin	Passive user	Logical admin	SOAP_TRANSP ORT	SOAP_NUMBER PLAN	SOAP_FLOW	Site area
Sea	arch telephone										FLOW
nur	mber	х	х	х	х	х	х				
Sea	arch orgigiating order										
nur	mber	Х	х	Х	х	х	х				
Sea	arch OCH order										
nur	mber	Х	х	Х	х	х	х				
Sea	arch transactions by	.,	.,								TRANSACTIONS
uai So:	e/state	х	х								
	dicit transactions by	v	v								
Sho	ow telephone number	^	^								TFI FPHONE
hist	torv	x	x	x	x	x	x				NUMBER
Sho	ow telephone current	^	~			~					
sta	tus	х	x	х	х	х	х				
Orc	der dump	х	х		х						DATA REQUEST
Orc	der reports	х	х	х			х				
Vie	ew reports	х	х	х			х				
Sho	ow operator										
info	ormation	х	x	х	х	х	х				
Ma	nage online users	х									USER
Ma	nage OCH operator	х									
Sho	ow systemload	х	х	х	х	х	х				SYSTEM
Op	erational status	х	х	х	х	х	х				
Ser	nd command to server	x									
Log	gin					х					AUTHENTICATION
SO	AP access ICH							х			
SO	APaccess										
NU	MBERPLAN								х		
SO	AP access Flow									х	

How to grant rights to a user will be described in chapter 3.4.

Note: The 'Passive user' access right must be granted for the user to be able to log in to OCH Online.

3 The Graphical User Interface

Contents

This chapter provides an overview of what you can access on the individual GUI tab page (that is, what each tab contains).

- "3.1 Flow tab"
- "3.2 Telephone Number tab"
- "3.3 Date request tab"
- "3.4 Administration tab"
- "3.5 System tab"
- "3.6 Info tab"
- "3.7 Help tab"
- "3.8 Language tab"

3.1 Flow tab

Contents

The Flow tab is where you search order information from the National Number Plan database for a given Telephone number, OCH Order Number or Originating Order Number.

The following menu items are available on from Flow tab:

- Search By Telephone Number which is used to acquire order information for a given telephone number.
- Search By OCH Order Number which is used to acquire order information for a given OCH Order Number.
- Search By Originating Order Number which is used to acquire order information for a given Originating Order Number.

The screenshot on the next page is an example of a Search By OCH Order Number:

low	Telephone Nu	Imber	Data reques	t Admin	istration S	ystem	n Info	Help	Langua	age	Log out
Searc	ch By OCH Ord	der Nun	nber								
Sea	rch By OCH	Order I	Number								
Och	Order Number 2	0001240	6866	Subr	nit						
осн	Order										
Sear	rch Time	Och Or	der Number C	riginating	Order Numbe	er Tele	ephone	Number	Past Point	Of No	Return
7 Ma	ay 2010 15:52:22	2000124	06866 0	1015000000	0000000241	340	00000		Yes		
□s	pecial Sorting										
-											
Iran	isactions										
Tran	saction Type		Uni	que Id	Parent ID		From	Тс)	Time	stamp
NP F	Range Update		576	487179			Telenor-1	0	СН	2 Ma	r 2010 13
NP C	OCH Response		576	487180	576487179		осн	Te	lenor-1	2 Ma	r 2010 13
NP F	Range Update		576	487181	576487179		OCH	De	ebitel	2 Ma	r 2010 13
					_	N.					

The Transactions table shows which transactions the order contains. To see information about each transaction the user must click on the containing link in the 'Transaction Type' column. This gives a list of Parameters In Transaction:

low	Telephone Number	Data request	Administration	System	Info	Help	Language	Log out
Parame	eters In Transactio	n						
Para	meters In Tra	nsaction						
Och C	order Number <u>200</u>	0012406963						
[Header								
Transac	tionGroup Numl	berPortability						
Priority	P2							
Senderl	D 0000	0						
SentDat	e 2010	0427						
SentTim	ie 1604							
[Messag	je]							
Transac	tionType 002							
Telepho	neNumber 3200	0000						
OCHOrd	lerNumber 2000	12406963						
Uniquell	D 5765	48034						
Originat	ingOrderNumber 0101	500000000000036	1					
[Trailer]								
Messag	eCount 1							

Note: Each link throughout the entire OCH Online web GUI directs the user to another page.

3.2 Telephone Number tab

Contents

The Telphone Number tab is where you search order history and current status information from the National Number Plan database for a given series of telephone numbers.

The following menu items are available from the Telephone Number tab:

- **History** which is used to acquire portability and range history information for a given series of telephone numbers.
- **Current Status** which is used to acquire current portability and range information for a given series of telephone numbers.

This is an example of a History search:

	Telephone N	lumber D	ata requ	iest Adm	inistratio	n System	In	fo Help	Lang	uage L	og out	
Histor	у											
Phone Phone	Number Start Number End	32000000 Search		S F F	Search Re Ranges Re Portabilitie	sults sturned 1 s Returned 2						
Porta	bilites											
Naviga	te << <	Page 1	> >>									
Series	;	Start Date		End Date		Service Ope	erator	Network	Operator	LUBO	Numb	er Ty
		the second s	10.07.00	28 Apr 2010	10:07:00	TDC 01011		TDC 0101	1	TDC 0101	1 FIXED	l.
320000	000-32000000	28 Apr 2010	10.07.00	and the second		EDENTERSCE EDENTED EDENTED				Charles and a second second second		
320000 320000)00-32000000)00-32000009	28 Apr 2010 28 Apr 2010	10:07:00	28 Apr 2010	10:20:20	TDC 01011		TDC 0101	1	TDC 0101	1 FIXED	
320000 320000 Rang Naviga	000-32000000 000-32000009 es te << <	28 Apr 2010 28 Apr 2010 Page 1	10:07:00	28 Apr 2010	10:20:20	TDC 01011		TDC 0101	1	TDC 0101	1 FIXED	
320000 320000 Range Naviga Range	000-32000000 000-32000009 es te << <	28 Apr 2010 28 Apr 2010 Page 1 Start Date	> >>	28 Apr 2010 End Date	10:20:20	TDC 01011 Range Hold	er Id	TDC 0101 Service O	1 perator N	TDC 0101	1 FIXED	LUB

Clicking on any of the rows in either the Portabilities or Range table directs the user to the OCH Order information page described in chapter 3.1.

3.3 Data request tab

Contents

The Data request tab is where you can request dump-, report and operator information from OCH.

The following menu items are available from the Data request tab:

- Order Dump which is used to order a Number Plan dump for active- history- or complete data for a given operator.
- **Report Description** is a list of descriptions for each report that can be acquired from the Order Report menu.
- **Order Report** which is used to acquire a type of report for a given operator within a given time frame.
- View Reports which is used to view ordered reports for a given operator.
- Show Operator Information is a list of data for each operator registered with OCH. .

This is an example of the Order Dump page:

ow	Telephone N	umber	Data reque	st Adr	ninistration	System	Info He	p Lan	guage L
Orde	r Dump								
Dump	Туре	To O	perator						
Activ	e data dump	✓ 2TE	LL LSO		V Order	Dump			
Statu	is For Dump	Order	5		10-				
Statu Refre	IS For Dump	Order	5						
Statu Refre	Is For Dump	Orders	s sed Date	Status	Dump Type	Ordered By	Ordered Fo	r Expires	Download
Refre Orde 26 M	is For Dump esh e r Date ar 2010 15:34:3	Orders Proces	sed Date 2010 15:34:37	Status Deleted	Dump Type Complete	Ordered By tol	Ordered Fo 08121	r Expires	Download
Statu Refre Orde 26 M 24 M	is For Dump esh e r Date ar 2010 15:34:3 ar 2010 13:19:0	Orders Proces 5 26 Mar 2 24 Mar	sed Date 2010 15:34:37 2010 13:19:06	Status Deleted	Dump Type Complete History	Ordered By tol tol	Ordered Fo 08121 08121	r Expires	Download

This is a subset of the Report Description:

low	Telephone Number	Data request	Administration	System	Info	Help	Language	Log out
Repo	rt Descriptions							
Rep	ort-1							
How n one te	nany telephone numbers lephone number operator	have been ported ported for one da	from my database f ay.	or how many	y days.	One Nun	nber Day is def	ned as
Repo	ort-2							
How n	nany operator porting flov	vs have been com	pleted successfully	with me as	donor.			
Repo	ort-3							
How n	nany operator porting flov	vs have been com	pleted successfully	with me as	donor, g	grouped b	y weeknumber	ř.
Rep	ort-5							
How n	nany attempts to operato	r porting from my	database have I reje	ected, group	ed by w	eeknumb	er.	
Repo	ort-6							
How n	nany attempts to operato	r porting from my	database have beer	cancelled,	grouped	by weel	knumber.	
s is ar	n example of the Ord	ler Report pag	ge:		\Rightarrow			

low	Telephone Num	ber Data requ	est Administration	System	Info He	lp L	anguage	Log out
Orde	r Report							
Opera	itor	Report N	ame Report Type					
2TEL	L_LSO	✓ Report-*	✓ FIXED	~	Show Report I	Descript	tion	
Start I	Date	End Date						
1 Apr	2010 12:00:00	🔵 7 May 2010	12:00:00 🕒 Ord	er Report				
Statu	ie Eor Penort (rdere						
otatu	is i of Report c	Juers						
Refre	esh							
Repo	ort Name Report T	ype Start Date E	nd Date Order Date	Pro	ocessed Date	Status	Ordered By	Ordered F
Repo	rt-1 FIXED	01-04-2010 0	7-05-2010 7 May 2010	15:57:40		Init	tol	08121

This is an example of the View Report page:

low	Telephone Number	Dat	ta request Admir	nistration Syste	em Info H	elp Langu	age Log out
View F	Reports						
2TEL	L_LSO	~	Refresh				
Name	Action	Туре	Query Start Date	Query End Date	Ordered By	Ordered For	Generated
Repor	t-1 View Download	FIXED	1 Apr 2010 00:00:00	7 May 2010 00:00	:00 tol	08121	7 May 2010 15:57:4

The user can choose to either view or download the ordered report(s) for a given operator. When the 'View' button is clicked the report is shown in a new browser window. When the 'Download' button is clicked a 'File Download' dialogue box pops up which gives the user the possibility of opening or saving the report in a .txt format.

low Telephone Number	Data req	uest Administration	System	Info	Help	Language	Log out
Show Operator Informati	on						
Operator Name	CPS Acti	ve Contact person			Email		
2TELL_LSO	08121 N	Lars Nyman			In@2te	ell.dk	
2fast_LSO	08067 N	Thomas Byrdal			tb@2f	<u>ast.dk</u>	
A+Telekom_LSO-	08018 N	Mikkel Sylvest			np@a	plus.dk	
ACN-Europe_LSO	08036 N	Nils Oudejans			noude	ja@acneuro.co	<u>m</u>
ATZtel_LSO	08099 N	Kristian Jansby			kj@at:	ztel.dk	
Altibox_LSO	08080 N	Lars Peter Christianse	n		porteri	ng@altibox.dk	
Aplus-Telecom	01020 N	Mikkel Sylvest			np@a	plus.dk	
Arto.dk_LSO	08057 N	Morten Borg			morter	n@borg.net	
Barablu	01091 N	Prathepan Sara			prathe	pan@barablu.c	<u>om</u>
Belle_Balance_SO	00209 N	Kenneth Christiansen			kch@l	bellebalance.co	<u>m</u>
BillingCom_LSO	08062 N	Allan Baadsgaard			aba@	companymobile	<u>dk</u>
Bolignet-Aarhus_LSO	08042 N	Morten Doktor			info@l	oolignet-aarhus	<u>dk</u>
CIM_Mobility	09014 N	Allan Kobs Krøyer			ak@ci	im.as	
COLT-Telecom	01071 N				custor	merservice@col	t-telecom.
Callme08013_LSO	08013 N	Karina Hald			kah@	debitel.dk	
Callme08068_LSO	08068 N	Karina Hald			kah@	debitel.dk	
Callme08075_LSO	08075 N	Karina Hald			kah@	debitel.dk	

This is an example of the Show Operator Information page:

Note: Clicking on the email link for an operator starts up the local email client and makes it possible to send a mail to the specified email address.

3.4 Administration tab

Contents

The Administration tab is where the user can manage users, operators and notices and search specific transactions.

The following menu items are available from the Administration tab:

- Manage Users which is used to create and update users for a given operator.
- Manage Operators which is used to create and update operators.
- **Manage Notices** which is used to create and edit notices to be displayed on the OCH Online web site as information to the user from the administration.
- Search Transactions which is used to search transactions in a certain state within a specified time frame or by id.

Manage Users

This is an example of how to create a user:

low	Telephon	e Number	Data request	Administratio	on System	Info	Help	Language	Log out
Mana	age Users	Create Nev	/ User					_	
Choos	se Operator	Operator User Name	2TELL_LSO	✓]				
Navig	gate Users	Password							
User 2tell	Operate 2TELL_	Active						_	
		PASSIVE_	Assigned Roles USER r Cancel Delete	>> << e	Availa OPERATOR_AD OPERATOR_US PASSIVE_ADMI SERVICE_CENT SOAP_FLOW SOAP_NUMBER SOAP_TRANSP	able Role MIN ER N ER ER DRT	25		

Note: The dialogue boxes Edit and Create User are similar except for button titles.

This is also the dialogue where the access rights (roles) are managed. To the right of the screen the available roles are shown and the arrows in the middle are used to assign roles to and from the user. A matrix which shows the menu items available for each role is described in chapter 2.3.

Note: The roles SOAP_FLOW, SOAP_NUMBER_PLAN and SOAP_TRANSPORT are not used for OCH Online users. They are created for users who must access the OCH SOAP Interface. More about this in the OCH SOAP desciption.

Manage Operators

This is an example of the create user dialogue box:

Flow	Create operator				g ou
Mana	Name	9	CPS		
Crea	Contact person		Created		
Oper	Email	9	Status	Active 💌	act p
2TEL	Force Close Email		Contract Number		😑 Nyma
2fast	Force Close Email CC		Hidden	No 💌	as By
A+Te ACN-	Telephone Number		Block Intital	No 💌	ai Syr Dudei
ATZte	Mobile Number		Activation Date		an Ja
Altibo	Fax Number		Close Date		Peter
Arto.	User Admin Name		Transport Type	message store V	an Bo
Barat	User Admin Telephone			soap v1 none	epan
Belle	User Admin E-Mail	9			eth C
Billing					Baad
Bolig	Remove				en Dol
CIM_	Add Add	64			Kobs
Callm	Create encodes Connel				a Hal
Callm	Create operator Cancel				a Hali

In this dialogue box a 'Service Center' user can create an operator with contact data, Delivery Points for message store files and Transport type (message store, soap v1 or none) etc...

Note: The dialogue boxes Edit and Create Operator are similar except for button titles.

Manage Notices

To create a notice click on the 'Create Notice' button and to edit a notice click on a row in one of the three tables - Release Information, News and Warnings.

This is an example of a 'News' notice in an Edit box:

Create Notice	Edit Notic	e				
Pelesse Inform	Start Date	23 Feb 2010 1	2:00:00		1	
velease inform	End Date	25 Feb 2010 1	2:00:00		-	
Navigate	Туре	News	~			
Title	Title	N1			te	Active
Test 01032010		News 1		~	010 12:00:00	Yes
lews						
Navigate						
Fitle					e	Active
11	Nation				2010 12:00:00	Yes
12 13	Notice				2010 12:00:00 2010 16:00:00	Yes Yes
Varnings						
lavigate 🤜						
ītle				~	e	Active
V1					2010 12:00:00	Yes

Note: The dialogue boxes Edit and Create Notice are similar except for titles.

Search Transactions

To search transactions a start and end date must be provided along with transaction state type.

It is also possible to search for a single transaction by entering the transaction id.

Here is an example of a set of transactions for a given period of time:

earch Trans	actions											
Search Tran	sactions											
Start Date	E	End Date	AL Sta	ate	TL State							
Apr 2010 12:0	00:00	31 May 2010 12:	00:00 Null	`	Null	*	Search					
ransaction Id												
		Search										
ransactions for	ound 6											
ransactions f	ound 6											
ransactions for	ound 6 IS											
Transactions for	ound 6 IS											
Transactions for Fransaction	ound 6 IS << <	Page 1 >	2									
ransactions for Transaction Fransactions Fransaction Ic	ound 6 I S << < d Parent ID	Page 1 > > OCH Order 1	> Transaction Typ	e Responsible	e Layer Or	iginating Laye	r AL State	TL State	Direction	Created	Operator	Action
ransactions for Transaction Transactions Transaction Ic 176548099	ound 6 IS d Parent ID 576548098	Page 1 > > OCH Order T 200012406971 N	Fransaction Typ	e Responsible	e Layer Or Tra	iginating Laye ansport Layer	r AL State Null	TL State Null	Direction	Created 28 Apr 2010 10:31:02	Operator	Action
ransactions for Transaction Transactions Transaction Ic 576548099 576547994	ound 6 IS C C C C C C C C C C C C C C C C C C C	Page 1 > > OCH Order T 200012406971 N 200012406943 N	Fransaction Typ IP OCH Response IP OCH Response	e Responsible se Null se Null	∋ Layer Or Tra Tra	iginating Laye ansport Layer ansport Layer	r AL State Null Null	TL State Null Null	Direction	Created 28 Apr 2010 10:31:02 14 Apr 2010 13:25:23	Operator OCH	Action Action Action
ransactions fo Fransaction Fransactions Fransaction Ic 576548099 576547994 576547995	ound 6 IS d Parent ID 576548098 576547993 576547993	Page 1 > > OCH Order T 200012406971 N 200012406943 N 200012406943 N	Transaction Typ IP OCH Respons IP OCH Respons IP OCH Respons	e Responsible se Null se Null Null	e Layer Or Tra Tra Tra	iginating Lay e ansport Layer ansport Layer ansport Layer	r AL State Null Null Null	TL State Null Null Null	Direction	Created 28 Apr 2010 10:31:02 14 Apr 2010 13:25:23 14 Apr 2010 13:25:23	Operator OCH OCH OCH	Action Action Action Action
ransactions fo Transactions Transactions Transaction Ic 576548099 576547994 576547995 576548100	ound 6 S C C C C C C C C C C C C C C C C C	Page 1 2 2 OCH Order 7 200012406971 N 200012406943 N 200012406943 N 200012406971 N	Fransaction Typ IP OCH Respons IP OCH Respons IP Create IP Create	e Responsible se Null se Null Null Null	e Layer Or Tra Tra Tra Tra Tra	iginating Laye ansport Layer ansport Layer ansport Layer ansport Layer	r AL State Null Null Null Null	TL State Null Null Null Null	Direction	Created 28 Apr 2010 10:31:02 14 Apr 2010 13:25:23 28 Apr 2010 13:25:23 28 Apr 2010 10:31:02	Operator OCH OCH OCH OCH OCH	Action Action Action Action Action
Transactions for Transactions Transactions Transaction Ic 576548099 576547994 576547995 576548100 576548098	ound 6 S C C C C C C C C C C C C C C C C C	Page 1 OCH Order 7 200012406971 N 200012406943 N 200012406971 N 200012406971 N	> ransaction Typ IP OCH Respons IP OCH Respons IP OCH Respons IP Create IP Create IP Create	e Responsible se Null Null Null Null	e Layer Or Tra Tra Tra Tra Ap	iginating Laye ansport Layer ansport Layer ansport Layer ansport Layer plication Layer	r AL State Null Null Null Null Null	TL State Null Null Null Null Null	Direction	Created 28 Apr 2010 10:31:02 14 Apr 2010 13:25:23 14 Apr 2010 13:25:23 26 Apr 2010 10:31:02 28 Apr 2010 10:31:02	Operator OCH OCH OCH OCH 2 OCH 2 OCH 2 Telia	Action Action Action Action Action Action

The 'Actions' link in the last column of the Transactions table gives the possibility of viewing the Dispatch id and modify the transaction:

uest Administrat	ion System Inf	fo Help L	anguage	Log out			
AL Stat	e Modify Transactio	on 576548099		1			
12.00.00	Responsible Laye	r Null Transaction L	aver 💙	1			
	TL State	Null	*				
	TL State	Null	*				
	Restart incommi	ng transaction					
>>	Resend Outgoin	g Transaction					
Transaction Type	1			te TL State Direction	Created	Operator	Actions
1 NP OCH Response	Cancel Submit			Null	28 Apr 2010 10:31:02	OCH	Action
NP OCH Response	e Num	напорон саус		Null	14 Apr 2010 13:25:23	OCH	Action
NP Create	Null	Transport Laye	er Null	Null	14 Apr 2010 13:25:23	ОСН	Action
1 NP Create	Null	Transport Laye	er Null	Null	28 Apr 2010 10:31:02	OCH	Action
a second s	and the second se	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	100 C 100 C				1971 - 197

3.5 System tab

Contents

The System tab is where the user can monitor different system information and send commands to the server.

The following menu items are available from the System tab:

- Show System Load which is used to show order and transaction status in the system.
- **Operational Status** is a link to the Service Center portal.
- Send Command which is used by the 'Service Center' user to send different operational commands to the OCH Server.
- System Configuration is used to show configuration of the current running OCH Server.

This is an example of information about system load:

			New York (1997) (19977) (19977) (1997) (1997) (1997) (1997) (1997) (1997) (1		.4008000.		Contractoritority.	
low	Telephone Number	Data request	Administration	System	Info	Help	Language	Log ou
Show	v System Load							
Refre	esh							
oc	H System Statu	ıs 7 May 20	10 15:42:35					
Oper	n Orders		11111					
Close	ed Orders		0					
Oper	Orders PONR 3 Hours	Or More	10108					
Open	Orders PONR 7 Days	Or More	10108					
Force	e Close Queue		0					
Tra	nsactions In Pr	ogress						
Valid	lation		0					
Sessi	ion Up		0					
Sessi	ion Down		0					
Actio	on Layer		0					

The screenshot on the next page shows where a 'Service Center' user can send commands to the server.

low Tele	phone Number	Data request	Administration	System	Info	Help	Language	Log ou
Send Com	nand To Serve	r						
	S	Send Command	Refresh					
Status Fo	r Send Comm	and						
Order Date		Processed Dat	e	St	atus		Send By	
Command	descriptions							
exit	Makes the O	CH Server quit with	out parole					
restart	Makes the O	CH Server restart.	Works ONLY if the	OCH Server	is running	g and no	ot with exit	
stat	Makes the O	CH Server send sta	atus informations of	all running t	hreads to	SUMO	as manageme	nt logs
info	Enable trace I	ogs send from OC	H Server to SUMO.	Use with ca	aution!			
trace	Enable trace I	ogs send from OC	H Server to SUMO.	Use with ca	aution!			
trace								
noop	No operation	. does nothing, bu	it can be used to se	e if system	is running	J		
noop hooverstop	No operation. Makes the Ho	does nothing, bu over within the OC	it can be used to se CH Server stop until	e if system next OCH S	is running erver rest) art		
noop hooverstop hooverauto	No operation. Makes the Ho Makes the Ho	does nothing, bu over within the OC over run only whe	it can be used to se CH Server stop until n the OCH Server is	e if system next OCH S idle. This is	is running erver rest default.) art		
noop hooverstop hooverauto hooveroncea	No operation. Makes the Ho Makes the Ho uto Makes the Ho	does nothing, bu over within the OC over run only whe over run only whe	It can be used to se CH Server stop until In the OCH Server is In the OCH Server is	e if system next OCH S idle. This is idle. This is	is running erver rest default. default.) art		

3.6 Info tab

Contents

The Info tab is where the user can choose to see notices and return to the welcome page.

The following menu items are available from the Info tab:

- Welcome Page which is a link to the front page of OCH Online.
- **Warnings** is a paged list of the Warning notices that have been created from the Manage Notices page which were described in chapter 3.4.
- **Release Information** is a paged list of the Release notices that have been created from the Manage Notices page which were described in chapter 3.4.
- **News** is a paged list of the News notices that have been created from the Manage Notices page which were described in chapter 3.4.

This is an example of the Warnings page:

Flow	Telephone Number	Data request	Administration	System	Info	Help	Language	Log out
Warn	ings							
Navig	ate << < Page 1	1/1 > >>						
▼ 2 W	3 Feb 2010 12:00:00 W1 arning 1							

3.7 Help tab

The following menu items are available from the Help tab:

- OCH A/S is a link to the official website of OCH A/S.
- **Error codes** is a paged descriptive list of error codes that the OCH Server can throw when an error occurs during the lifetime of an OCH order.

This is an example of some of the error codes and descriptions:

Flow	Telephone Number	Data request	Administration	System	Info	Help	Language	Log out
Error	codes							
Navig	ate << < Page	1/4 > >>						
Error	code Message							
300	Syntax error in lin	e						
301	Field is missing							
302	Field is present m	ore than once						
303	Field content is ill	egal						
304	Field content is m	iissing						
305	Field content not	unique						
306	The telephone nur	mber is not within	a range in the numb	oer database	•			
307	Field content is to	io long						
308	Index value is illeg	jal						
309	The TelephoneNu	mber is present in	another active flow					
310	MessageCount va	lue does not mate	h number of messa	ges				
311	[NPUpdate] receiv	ed before the agre	eed completion date					
312	No [NPCompletion	n] found for this [N	IPUpdate]					
313	OCHOrderNumbe	r is in use in anoth	ner flow					
314	OperatorID does r	not exist						

Note: The Error codes are split in a number of pages with a predefined number of rows.

3.8 Language tab

OCH Online contains a language module which makes it possible for the user to choose between different languages his or her user account.

This shows the Language menu:



4 Configuring OCH Online

Configuration files for OCH Online are located in the folder

/home/<och>/prod/server/och-online/tomcat/conf/

This is described in further details in the System Administrations guide for the OCH3 Server and OCH Online.

The main configuration file is the och-online.xml which is located in

~/conf/Catalina/localhost/

This is the file where directory paths, timeout, phone number length, NPUpdateComplete strategy etc... are configured.

(see Appendix A for the complete file)

NPUpdateComplete strategy

To change NPUpdateComplete strategy configurations must be changed in two places and after that the OCH3 Server and OCH-Online must be restarted:

1. In the och-online.xml described in Appendix A;

<!-- Possible values : All, NetworkOperators, None -->

<Environment name="NpUpdateCompleteStrategy" value="NetworkOperators" type="java.lang.String"/>

2. In the och.cfg file located in /home/<och>/prod/server/och/etc/;

Possible values: All, NetworkOperators, None

transaction.np_update_complete_strategy = NetworkOperators

After these two steps have been performed the OCH3 Server and the OCH Online Server must be restarted.

Start / Stop servers

The /home/<och>/prod/server/och-online/bin/ directory contains **start.sh** and **stop.sh**, which can be used to start/stop the OCH Online server. Similar scripts are available in the /home/<och>/prod/server/och/bin/ directory.

Note that the start and stop scripts should not be used alone, but should instead be started through the **mainctrl.sh** script, found in the **<och3>** user's home directory. This is further described in the System Administrations guide for the OCH3 Server and OCH Online.

5 Appendix A: och-online.xml

<?xml version="1.0" encoding="UTF-8"?>

<Context antiJARLocking="true" path="/och-online">

<!-- The main datasource for this web application -->

<ResourceLink name="jdbc/och.ana.online"

global="jdbc/och-online" type="javax.sql.DataSource"/>

<!-- The authentication mechanism used for this web application -->

<Realm

className="org.apache.catalina.realm.DataSourceRealm"

dataSourceName="jdbc/och-online"

roleNameCol="role" userCredCol="password"

userNameCol="username" userRoleTable="v_user_role"

userTable="users"/>

<!-- The directory containing the tomcat -->

<Environment name="OchOnlineBaseDir" value="/home/och/prod/server/och-online" type="java.lang.String"/>

<!-- The directory containing the och server-->

<Environment name="OchServerBaseDir" value="/home/och/prod/server/och" type="java.lang.String"/>

<!-- The directory where OCH Server puts the dump files -->

<Environment name="OchServerDumpDir" value="/home/och/prod/server/och/online_dump" type="java.lang.String"/>

<!-- Time in minutes before users must re-authenticate -->

<Environment name="LoginTimeout" value="10" type="java.lang.Integer"/>

<!-- The length of phone numbers -->

<Environment name="PhonenumberLength" value="8" type="java.lang.Integer"/>

<!-- Possible values : All, NetworkOperators, None -->

<Environment name="NpUpdateCompleteStrategy" value="NetworkOperators" type="java.lang.String"/>

<!-- The dispatch url -->

<Environment name="DispatchUrl" value="http://msu.dannet.dk/cgibin/msview/src/dispatch.sh?fid=" type="java.lang.String"/> </Context>

