OpenClinica

5.4.2 OpenClinica eCRF Specifications

OpenClinica provides a template to users for CRF design. This section explains each of the fields in the template and how those fields are either dependent or independent of each other. Best practices are provided as well as some examples of how the CRF Template can be used effectively.

Definitions and acronyms

- CRF Case Report Form, created in OpenClinica by uploading a CRF definition based on the CRF Template Excel file.
- Dynamics Skip Patterns/Skip Logic created using Rules and based on variables in the CRF template.
- Group A mechanism for logically associating items within a CRF. Items within the same group may repeat together within a CRF.
- Item A variable within a CRF.
- OIDs Object Identifiers uniquely identify a study object such as a CRF, CRF Version, Item Group, or Item and are used to link objects to one another. OIDs for a given class of object are unique within an instance of OpenClinica, with the exception of Rule OIDs, which are only guaranteed to be unique within a study.
- Rules OpenClinicas mechanism to carry out cross form or cross field edit checks, skip logic and inserting data across CRFs. Rules are declared in XML and executed by the OpenClinica Rules Engine. Rules are declared external to the CRF Template but dependent on the variables defined in one or more CRFs.
- SCD Simple Conditional Display. A way of defining skip logic within the CRF Template, without the use of Rules.
- Section A mechanism for organizing items within a CRF for layout purposes. All items in a given section appear on the same page in a CRF. Multiple sections are displayed as tabs within the CRF.
- Tokens A means of displaying a Study Object value for use in a URL (e.g. in a parameterized link) or for use in other scripts (e.g. jquery). Tokens can also be used in Left Item Text, Right Item Text, Header, and/or Subheader to pass item values. The supported tokens are:

\${studySubject} - Passes the current Subject ID

\${studySubjectOID} - Passes the OID for the current Subject

\${studyName} - Passes the current Study Name

\${eventName} - Passes the current Event Name

\${eventOrdinal} - For repeating Events, passes the Event repeat number (e.g., 2 for the second repeat)

{crfName} - Passes the CRF Name

\${crfVersion} - Passes the CRF Version

\${item[item_name]} - Passes the Item value

Approved for publication by Ben Baumann. Signed on 2015-03-03 3:10PM

Not valid unless obtained from the OpenClinica document management system on the day of use.

5.4.2.1 CRF Template - General Constraints

The OpenClinica CRF Template can only be edited and saved as a Microsoft Excel 2003.xls file. OpenOffice spreadsheets and later versions of Microsoft Excel can not be used reliably and may not be successful when uploaded to OpenClinica version 3.1.X.

The CRF Template is used to define the CRF on a client machine with MS Excel. Once the required information has been provided in the template, it must be uploaded to OpenClinica through the Add CRF page. Only certain privileged users are allowed access to this page.

During the upload process, a validation of the CRF design is performed. Errors that are caught at this stage will trigger messages to the user informing him of the error and changes necessary to fix the error.

5.4.2.2 Scope of CRFs and Items

A CRF (with its associated versions, groups, and items) is defined globally within an instance of OpenClinica and may be used in one or more studies. The groups and items defined within a particular CRF exist within the scope of the CRF only (though they will have globally unique OIDs). The CRF Physical Exam may have an item with ITEM_NAME blood_pressure and the CRF Vital Signs can have an item also named blood_pressure. OpenClinica treats these items as separate entities and they will have separate OIDs. Response sets also exist within the scope of the CRF only.

A CRF definition may be shared across OpenClinica instances by loading the CRF template spreadsheet into each instance. Each instance of OpenClinica generates OIDs at CRF upload time and those OIDs must be unique within that instance. Therefore the OIDs for the same CRF and items may be different across OpenClinica instances.

5.4.2.3 CRF Versioning

OpenClinica supports multiple CRF versions being in use at the same time. To create a new version, a user must keep the CRF_NAME field the same as the original, but update the CRF_VERSION field with a new value. This new version is uploaded by selecting the Create New CRF Version icon instead of adding a CRF through the Build Study module. The user does have the ability to overwrite a CRF Version if needed, however the CRF Version cannot have been assigned or used in any event definitions prior to the attempt to remove it.

When a new CRF Version is added, any item with the same ITEM_NAME as an item in a previous version of the CRF is treated as the same variable and will have the same OID, DESCRIPTION, and DATA_TYPE. The value of ITEM_NAME is case-sensitive, so items with ITEM_NAMEs 'ItemA' and 'itema' will be considered as different items by OpenClinica.

For Enterprise customers interested in using Datamart:

Please note that Datamart treats items in case-insensitive manner. Please make all ITEM_NAMES case-insensitive if you plan to use Datamart. Special characters and <u>Postgres reserved words</u> should not be used as item names.

New items that did not exist in prior CRF versions will be added and an appropriate OID generated.

Item metadata vs Item form metadata

Items in a CRF have two types of attributes. Item metadata attributes describe core intrinsic properties of the item. These properties are independent of the CRF Version and cannot change across CRF Versions. These properties include:

ITEM_NAME

DESCRIPTION

DATA_TYPE

GROUP_LABEL

Response Sets (see discussion below)

The properties ITEM_NAME, DATA_TYPE, and RESPONSE_LABEL cannot be changed after the CRF is created.

Item form metadata attributes describe the items representation or behavior on a CRF and may have a different value in each version of a CRF. Most of the attributes in the Items Worksheet in the CRF Template fall into this category.

Response sets

The item properties beginning with RESPONSE_ on the Items worksheet together define a response set in a CRF. The response set is a coded list of allowable values for the item. The response set is given a name (RESPONSE_LABEL) that allows it to be re-used within the CRF if desired, and the set itself is made up of a list of coded values (RESPONSE_VALUES_OR_CALCULATIONS) with corresponding text labels (RESPONSE_OPTIONS_TEXT). Each item in the list of coded values should meet the constraints defined by the item DATA_TYPE and WIDTH_DECIMAL.

Response sets are intended for use in items that utilize a form input control (INPUT_TYPE) that allows the user to select from a constrained list.

* Note that the RESPONSE_VALUES_OR_CALCULATIONS attribute can also be used in a separate context to create calculated/derived items.

Versioning of response sets should not change the mapping RESPONSE_OPTIONS_TEXT -

 $\label{eq:response_values_or_calculations, but it can delete or add new (_OPTIONS_TEXT - RESPONSE_VALUES_OR_CALCULATIONS$) pair to existing set of values. For example, an item is a single-select and its RESPONSE_OPTIONS_TEXT defined as Absent,Mild,Moderate,Severe,Life-threatening while

RESPONSE_VALUES_OR_CALCULATIONS defined as 1,2,3,4,5. In another version of CRF it is possible to drop or add several values, but you cannot redefine mapping by setting Absent to have value other than 1.

5.4.2.4 CRF Template Properties

The CRF Template contains five worksheets. Four of the worksheets are intended for input by the user creating the CRF while the fifth worksheet provides instructions about each of the fields of the Template. When a user selects a cell in a column, a tooltip will popup explaining whether the field is Required or not, and other useful instructive text to help the user understand what the field is for.

In some cases HTML elements like Bold (), Italics (<i>), Line Breaks (
), etc. can be used. In the cases where HTML elements are supported, they are designated as such in <u>CRF Template</u> <u>Elements</u>.

In OpenClinica 3.3, Tokens, were introduced. These are available for use in Left or Right Item Text, Header, or Subheader. They can be used to display the Study Object value for use in a URL (as in a Parameterized Link) or for use in other scripts (e.g., jquery). The supported tokens are:

- \${studySubject}
- \${studyName}
- \${eventName}
- ${\rm eventOrdinal}$
- \${crfName}
- \${crfVersion}
- \${item[item_name]}

Following is an example of a CRF that passes these tokens to a URL to bring up an image:

Visit I(0/3) Scan R	te(0/3) Select to Jump						
Title: Scan Results							
Physician who reviewd scan:							
Date of scan review:							
Results: (se	elect one) Click here to open image						

When the user clicks on the "Click here to open image" link, based on the following Right Item Text the CRF template, the imaging system (in this case www.example.com) is accessed and passes the

values for studyName, eventName, crfName, and the SCAN_DATE item for the current Study, Event, and CRF.

Right Item Text:

<a

```
\label{eq:linear} href="http://www.example.com/${studyName}/${crfName}/${item['SCAN_DATE']}" target="_blank">Click here to open image</a>
```

5.4.2.5 CRF Template Elements

Definitions, restrictions and when to use the OpenClinica CRF Template Elements

- <u>CRF Worksheet</u>
- <u>Sections Worksheet</u>
- Groups Worksheet
- <u>Items Worksheet</u>

Neuroscience - Margin Nationa - A. Neuroscience - Annual Angelera - Margina - Ma								
tan Tanan Katata Katata	artes deal & Alberta & as had		And Recording and Red Voltes To control of the Second Se		Which is not	Manada Salan		
		~	And The York A school and an address of the Annual School and Annu	All and a second	Physics a basis, the VMP at the optical of optical bios	-		
		111	Makes to action of the VF of a With a Specific Net Specifican section. It is according to the Specific NetWorks VF V for user VFF the the dead from any party or Frank Methods VF according to the VFF or the Specific NetWorks (the specific NetWorks NetWorks) and a section for Methods (the specific NetWorks).	Alfred Annual Contraction	If the second s	-		
		-	The final is and the information propose in the product of the Hamiltonian and the second data of the second	Aller and a feature and a feat	The effective approx is put of the UP fielded which is an index in the property file and matter a set representation of the UP fielded which is and index in the property file the advances of an approx is put of the UP fielded which is and index in the property file distances of a set of part field of the UP fielded which is and index in the property file	-		
1.0	annan, arm			And a second sec	Files is the four extrant of the VIC pass for any calculated for a stand are foun. Simplify and a set is a more stand or a pass of a stand and the standard standard and the standard standard standard and a difficult standard for any standard s			
	METER LINE.	10 Au 11 Ruj 10 Ruj 10 Ruj	Not for early in the problem and calls as species. Not with the states and an advancement for time the states that the time the state with a shift on participant on the advancement of the for time of the Not advancement of the comparison pathwells, buffer advancement of the states and support as specific first first for the state and the Notaes and appropriate specific first first first for the state and the Notaes and appropriate specific first first first for the state and the Notaes and appropriate specific first first first for the state and the Notaes and appropriate specific first	No sports print have been seen of the part of the second s	The sale of to call it to be "bother" in this when its face of a gase for a plan with a 100 met based and on to be.	Alphanese State of a Specific State of the Specific State of the S		
	100 MIN, 100 A	111.81	The same and the first set of the	An Annual State	No. Advances in and a difference in a 100 feature into a case of 100 feature and 100 featur	-		
	AND THE REAL PROPERTY AND A	**	Non-Jose at the top of the Annual Society of	All frequency allowed and characterized	Film, descents are appended for the Ann. No. Antibacture is used of the cost periodic Ann. and periodic Ann. And periodic Ann. And periodic Ann. Ann. No. Antibacture is the add Ann. No. at eas.	-		
	nut, some		where a logitudes and shark the and the paperside of the logitude process the particular pro- bance. This is a start paper with pairs the patients of the start of the particular start basis that and the start and starts and particular start basis that and starts and particular start basis that and the start particular start basis that and the start basis that particular start basis that particular start basis that the start basis that the start particular start basis that particular start basis that the start basis that the start basis that the start basis the start basis that the start basis the start basis that the start basis th	Princeton allocat Internet can Barrisolate can Barrisolate can Barrisolate can		~		
****			National Applications and Analysis for seals Analysis and Analysis for an Analysis for an Analysis for an Analysis Market Seale Analysis of Analysis for Analysis for Analysis Market Seale Analysis for Analysis for Analysis for Analysis Market Seale Analysis for Analysis for Analysis for Analysis for Analysis Market Seale Analysis for An		Spectration on the proof is in a first data and the state of the st			
	10117.000	~	and a dealer than the spectra of the dealer. But in the second of the spectra of	All sectors	The followed is and is not in the starting provide inter-transmission of the start is the spaceta prove starting or the starting provide at the different term in the start is and pro- ter above transmission approximate transmission of provide starting balant of the start in the start harves transmission of the start provide starting balant of the start in the start harves transmission of the start provide starting balant of the start in the start harves transmission.			
					The ball dated in card in their incidence to the property of the difference.			
	100107-040107	-	a search dynamic groups punch as free free strateging in the second seco		The Mold Assorb is well in Mole The Next Strap or SMR Spacesing in VER MOLDS. Well-MOLTMON from Strain and and an Assorb The Strain of the Strain and Assorb Molecular States and Assorb and Assoch The Strain and Assoch Assoch The Strain Molecular Assoch The Strain and Assoch The Strain and Assoch The Strain and Molecular Strain Molecular and Assoch The Strain and Assoch The Strain and Assoch The Strain and Molecular Strain Molecular and Assoch The Strain and Molecular Strain and Assoch The Strain and Molecular Strain and Molecular Strain Molecular and Assoch The Strain and Molecular Strain and Assoch The Strain and Molecular S	uni sin antonio, Ref		
		11.52	PUPULERARMAN AND AND AND AND AND AND AND AND AND A	Process and	(a) an other the local is an in 1999. The same series a site for the proop. An analysis of a static protocol scale is the balance state.			
		in any			Selfer process under so missionen scop Sie henrichen der die sonder aus der eine Stadie. Erführt spectra andre Statististeren Sie dass und Statistististe auf die specifie bei ausgeste Auforg der aufgeste Auforg in Statististe auf die Statististe Statististe.	_		
			The balance of the transmission of the transm	Rept. Rept. of Sector as it light	The Not-Adult As well is quely, has been reacted bits durational for the horse tranging or the effects and or granting of a list of their spectrum. These stars is an entertained up of the granter in the Mark and a contrast of the Adult Adult and the Adult. Is also well adult of adult durations of the MARP Adult adult and many orders and the entertained adult adult durations of the MARP Adult adu	Amazara (1.1.5)		
			Tandadi julus facilitati julitati a opato 1000. Non provinsi na parte ante di tandata di tandata ila na parte a di sua poste angle facilitati di tandata di tandata di parte a di sua poste angle di tandata di tandata di tandata di	Napr' Nais a sa kasindar Napri	The ball deads is made in the transmission of the state of the state $N_{\rm eff}$. Reserved, the state $N_{\rm eff}$ and th	·		
	1007 (1004) (1070)		Tanka separate of Ann Paris MRI, It is to tang of an agenre of Ann Paris and a series and an annual series of the all statistics as general is a decrease for theorem. It is that then, for same above on the tanka series	Basi, 8110, 188	n ar a 1988, at least a fair sing at Apply in the FB. Fairs 1988, An only an effective contempty to provide the provide the FB. The South of a 1988.	No. No. / Los Ballin		
			Yes had a sub-dependence pet of the HTM in the fee served as put of an HTM and had been as a disc in the feature per of these and these means. We had no use another home with another feature been involved these. These has a neuronaux of these had a subject to an advant on a neuronaux of these had and the set of the second term.		The ball during its and it of these			
		~	The information and the second	Ngladi Na qualita P.1. Autoritati musi Natagina Unagina	The follower is and a distance of the second	Approximate and an		
			Supporting program for a second secon					
		-	The Rectificance definition of the basis Month (see an expension of the Andrease and the Andrease expenses of the accidence of the basis Markows in the Andreases)	Negariat Michaelant attead Mittaelant att	The balance is and a stream. If only a description for all help option of the and description of the second s			
					The second secon			
					We behave a set of a sequel descent particular to a set of a set of a sequel descent particular to a set of a set of a sequel descent particular to a set of a sequel descent particular to a set of a set of a sequel descent particular to a set of a sequel descent particular to a set of a set of a sequel descent particular to a set of a set of a sequel descent particular to a set of a s	-		
			have the physical statistical approximation of the first statistical statisti		With streams are already based, only a bibliched of already a divide angular bibliched at the second stream of a			
					Hange Andrey (* * *). Manusco and its and the databases that if applies its factors and its and the database and its and the databases in the intervention of a grant in Nanospectrational and its intervention of the databases intervention of the databases of the databases of the databases intervention of the databases of the databases intervention of the databases of the databases of the databases intervention of the databases of the databases of the databases of the databases intervention of the databases of the databases of the databases of the databases of the databases intervention of the databases of the databases of the databases of the databases intervention of the databases of the databases of the databases of the databases intervention of the databases of the databases of the databases of the databases intervention of the databases of the databases of the databases of the databases of the databases intervention of the databases of the databases intervention of the databases of the databases intervention of the databases of the			
					fer min der beiten pass en Republic geschen und Tried, angeletting train an operation of Arean Philip			
			tanin kika kenyarinta kanjatan kutana sena se	8-0000 m	$P_{\rm PH}$ are calculated bars marked, the field one quick () or calculated bars, the σ is . The field shall are to be reacted at an antisequent () or calculated bars of the physical descent of the state of the transmission of the transmissi			
					b) An angle of an annual res (10) (but a set on the forwards of periods y with only the strategiest as the transport of the spectral and with dispect of transport periods. But and with dispect forward periods. If you as applied to 1000 1000 KBA Altad, file with poor is the strategiest as the second second			
					The bold as for and as easy of the bold has given appendix type in a set of order to the bold appendix the set of the bold appendix the set of the bold appendix the set of the bold appendix t			
			Restriction has been appeared to the right of the first signal on the time and is the digital appearing the the second second second second second between the second seco	Alternation advantations Automaticates	The second secon			
					E MARANES S Mark Market E Mark Market E Mark Market E Mark Mark E Mark Mark E Mark Mark E Mark Mark F Mark Mark F Mark Mark F Mark Mark Mark Mark Mark Mark Mark Mark			
			When the data before an instruction when when the					
	10 TO 1 10	Active Active Active Active Active	Al families as poor former on important a single soft and your data in our of an and a single of a single soft and a families of a single of a second soft and a single soft and as a single sof	Value and and as Robots Walkard	• For sample, proceeding and of the advanced in terms of a part of a payment own with a frequencies support that proceeds, and samples from the advanced to same shows.	A said Martine (Alles an Alland & Ro Norman Andreas		
					WHET TABLE AND ALL TABLES IN THE PARTY AND ALL TABLES TO A TABLES TABLES AND ALL TABLES AND ALT			
		10.00	Ange dans in which weight. His straight with the best wait which we define the straight wait was the best waited with the straight waited waited waited with weight waited	Table load and as Rollings	μα Mental and the second of the second sec	National Material		
			SHOT (AND, Social Papers Principal.		Notices services to a PAREMENT Insurvative transmission program. Hence report terms about the instruments, million PAR and a comparison transport and and the parameters of the comparison of the instruments, million and the parameters of the parameters of the parameters of the instruments in the additional term (MP) apply to show on any control (MP) reports the parameters of the use control (MP) apply to show on any control (MP) reports the parameters of the use control (MP) and the parameters of the instruments in parameters and and the additional and the show of the first parameters of the parameters of the use control (MP) and the parameters of the show parameters of the parameters of the show of the parameters of the show parameters of the show parameters of the parameters of the show of the parameters of the show parameters of the show parameters of the parameters of the parameters of the show of the parameters of the show parameters of the parameters of the parameters of the show of the parameters of the show parameters of the parameters of the parameters of the parameters of the show parameters of the show parameters of the parameters of the parameters of the parameters of the show parameters of the show parameters of the parameters of the parameters of the parameters of the show parameters of the show parameters of the parameters of the parameters of the parameters of the show parameters of the show parameters of the parameters of the parameters of the parameters of the show parameters of the show parameters of the parameters of			
					Spectrum 1.1.1 and their section with all disk frame is to compare a section in the stronge			
					Ethics are accessed as a detailed framework of the based of the particular data for the particular			
		**	Notices for the source is basic to control the source tensor of the field of the source tensor of te	Al-Security allocat Bill Security and	Response of the second			
					Fel das intrinsient june see Steppins operations and the set of adaption of prints and applications of the set of the balance for and a complementation of adapting the test of a set oppinster for attraction to date a greater set of a structure, adapting the balance of an exploration for attraction in attract.			
					We denote an error from a product of a first state of the second s			
			Technick is later for the efficiency of the Matter or Algorithm (1999) and the second state of the specific states and the specific states and	Michael and American	BYIN sectors as already having any holescalarial region already approxibility data for a first sector and an annual sectors and an annual sector and an annual sector and a s			
			aparalarity vite and test a proj bing road.	87.540.501.84	 b) (Filman) <li (filman)<="" li=""> b) (Filman) b)	-		
					The first is the start is a significant or a significant is to the an optimized or or a significant start of start and the start of the			
			All VET VET. The vetters for any other solution of Physicillan and Sector of the solution of	Table for 1998, No.201 and about the 1997 and associately provide the number and final provide the second second second	In our can beam have been as the second of a statement a big and the second part is a second of the second back of the BEN ten tensor and a to second the second second of the second second second back of the particular second parts.			
		242	The control has a track of a physical and even the first particular spectrum of the physical spe		The contrast and actions in the PP and the second address is apply or adapt, from a con- trast of the second action of the PP and the second address is a spectra of the second ac- mostly contrast or a set of the second action of the second action of the second action of the second action of the second action of the second action of the second action of the second action of the second action of the second action of the second action action of the second action of the second action of the second action of the second action action of the second action of the second action of the second action of the second action action of the second action of the second action of the second action of the second action action of the second action of the second action of the second action of the second action action of the second action of the second action of the second action of the second action action of the second action of the second action of the second action of the second action action of the second action of the second action of the second action of the second action of the second action of the second action of the	-		
	Part 10 100		an party from 1 10 million The data for any other stress of Systems and Sa Sandra for any	Allen and and a	The second se	-		
		sa na uthus napus n narus	ent In The Mallon and is goodly an abatility for and han an the home is the Mallon and is specify an abatility for a bit of the Mallon Mallon and the Mallon and The Mallon and Mallon an	21,000	Tarlis light post-scatters are 100. Tarlis a scapper have also introduces as a superior (100. Sector list)			
					Tundan a said annan te annan ghànadha 1988 Annan Martin Marta airtine Annan Marta ann gana ta chuan Anna Anna Annan Anna Martana airtine airtine anna an an Annan Annan Annan Martana airtine airtine anna an an Annan Annan			
			The lage of the depict you want the force for a post force of the	Notes and for static films (day allowed and static films) and respective addresses	The states of the local applicable and the barriers to the Tay the derivative parameters of the type is a second second	-		
	and the pro-	-	The loss input plant part water the house house house and the loss is a sense water the method with a sense house the loss is a sense that a sense of the sense of a high sense loss is a sense of the sense house a sense of a high sense.	Andreas Andreas Charles Calendaria (Calendaria Calendaria Andreas Andr	name d'anté à parte. Ne près chemistre d'anté a serie sonne d'es repuerte prise, voler de année de la barg et la d'antée de la contra et a state des la contrate de la contrate de la contrate de la contra la contrate d'antée de la contrate d'antée de la contrate de la contrate de la contrate de la contrate de la contrate d'antée de la contrate de la contrate de la contrate d'antée de la contrate de la contrate de la contrat	-		
					Professional V Alley Delar Maria Ing an Andrea Maria Ang			
		~	Trading which have a second of the simpless set P to their start that h is the second set of the same $A_{\rm B}$ (the frame with the same h is the particular of the same h	Roberton an Roberto dipanante	A solid to \$100 Min shadow \$10	Aphanan Y Kel, M Quest		
			is the set of the set	Reparation and angle address of parts and characteristics	We have a set on the device and which define a sequence then the set is the set of physics in an array part with the set of the set of the first set of the physics is the set of the set	To associate de la calegaria de		
			The fail is an unitable of graphical as a first set consideration of oracle fail and the set of the set of the failed set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set	hand	For experimental sector and an experimental sector of the sector and a sector part of the sector and the sec			
			Pick for a survey service of pays and service. No services and address and services the service service service services and services and services and services in the services of pays and services from a reaction in the service services of pays and services from a reaction of the service services of pays and services from a reaction and an a reformation of pays and services from a reaction and an a reformation of pays and services in these and an a reformation of the services and services and an a reformation of the services and services and an article services and services and services and services and services and services and services and services and ser	and the local data	Repeat Actions applications (proteins) The Standard International Standard International International International International International International International International International International International International International Int	 		
	-		No logical of the spinors the information functions from the spinors can be estimated the start to complete or information. It is function to the function of the spinors input of all constraints of order to spinors. The despin on the fluctographic logicals	Real, Rossense, Surface	hantig An Mel Mall of anothing technologies in these is a single colour tips in Meller Mall of Antonio why a first on a single colour of A A April Malpine Access and and an another applies to general applies of Meller Meller	Republic Trial		
		-			the first is party assessed as the complex first space in the space with the space ball. For any	the construction of the co		
		100	Mit Ander Samer A. S. Statistical Strategy and the statistical statistical for Strategy of set of the strategy for sample, which as autovarian for this with for sample, which as an	## 0.000 Hz	No car fine an United applies) Head when one of the United Photometer Photo- tere Photometer Networks ensure Networks en	Mr. Songel Mr. Songel Mr. Songel Miller, Fachol Hall, Fachol Fach, Fachol Fach, Fac		
				Notation Typics and its shorts from 1 May State bas	 Di Singli, Ali, Sandan Santa yang Marking Santa Sija. Mi Singli, Shi Santa Santa Santa Yang, Shi Santa Sing, Shi Singli, Shi Santa Sing, Shi Singli, Shi Santa Santa Santa Santa Singli. Mi Shi Santa Santa Santa Yang. Ng Alinda Santa Sing Yang Santa Santa Singli Santa Santa			
		~	The start by a first term in a shift for some second of the start second s	ni Mari Mari Mari Marijan News Marijan News Marijan News	FIRST: A finite states are alreaded for this state (gas, the about two for two is the MMMM WT is used as provide index WD WT WT is WD wave. The image below is the MMMMM wave is the image below is the MMMMMM wave is the MMMMMMM wave is the MMMMMMMMMM wave is the MMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMM			
					The field shall as to charge it is a subspace correspondence of the UP of point A charge it and point for some of the UP of a substrate it have been derived for the UP. (Figure A charge it is the test of the UP of			
					Males for eAB (Recalance allow) in place the AB (art in some of items pares is an in Male in New eAB (art is a set of the AB (item and the AB (item allowed pares)). The AB (art is a set of the AB (item allowed pares)) is a set of the AB (item allowed pares) in AB (item allowed pares). The AB (item allowed pares) is a set of the AB (item allowed pares). The AB (item allowed pares) is a set of the AB (item allowed pares). The AB (item allowed pares) is a set of the AB (item allowed pares). The AB (item allowed pares) is a set of the AB (item allowed pares). The AB (item allowed pares) is a set of the AB (item allowed pares). The AB (item allowed pares) is a set of the AB (item allowed pares). The AB (item allowed pares) is a set of the AB (item allowed pares). The AB (item allowed pares) is a set of the AB (item allowed pares). The AB (item allowed pares) is a set of the AB (item allowed pares). The AB (item allowed pares) is a set of the AB (item allowed pares). The AB (item allowed pares) is a set of the AB (item allowed pares). The AB (item allowed pares) is a set of the AB (item allowed pares). The AB (item allowed pares) is a set of the AB (item allowed pares). The AB (item allowed pares) is a set of the AB (item allowed pares). The AB (item allowed pares) is a set of the AB (item allowed pares). The AB (item allowed pares) is a set of the AB (item allowed pares). The AB (item allowed pares) is a set of the AB (item allowed pares). The AB (item allowed pares) is a set of the AB (item allowed pares). The AB (item allowed pares) is a set of the AB (item allowed pares). The AB (item allowed pares) is a set of the AB (item allowed pares). The AB (item allowed pares) is a set of the AB (item allowed pares). The AB (item allowed pares) is a set of the AB (item allowed pares) is a set of the AB (item allowed pares) is a set of the AB (item allowed pares) is a set of the AB (item allowed pares) is a set of the AB (item allowed pares) is a set of the AB (item allowed par			
				No. open A	The WERE CONTROL of the control of the set of the test of the CP, PT of the data types. The control of the test of the CP, PT of the data types of the control of the test of the test of the PT of the test of the test of the PT of the test	-		
	1111, 01 (00)	No. 11 o Salatio Martin No. 10	an fan de fan en fan fan en fan fan en fan fan en fan en fan en fan en fan fan en fan fan en fan fan en fan fan fan en fan en fan fan fan fan en fan fan en fan fan en f		Paragene Intel Web, 1997, 2019, 1973, 1973, 1973, 1973, 1974, 197			
				A mouth if the back back back, while a filled, and also a might that it with if you is help if the y	 Marco Marco A, C. Sporten Marco Marco Marco Marco A, Marco M, Marco M,			
					Person for a schemal that it guardinaries as not instruction processes and people states and and the experiment of a sample or the schema state of	-		
					The collabor of the sector law and the test of the test of the collection (a), which adds the collec- sing presence, which collections are sectored as an oral activity of the collection of the collection (a) and the collection (b) and the collection of the collection for which collection (b) and the collection (b) and the collection of the collection of the collection (b) and the collection (b) and the collection of the collection (b) regression (b) and the collection (b) and t	-		
	-	10, 5 a 10, 5 a 10, 5 a	and the state of t	-	The Second Secon			
					Less Augeste bel 4 Brech of Ausser steaper Nachtan Forstweit vergende Nachtan aufstellte Regeneren Haufen of Steater 10 Augeste Ausser aufstellte 10 Augeste Augeste Aufstellte 10 Augeste Augeste Augeste Ausser 10 Augeste Augeste Augeste Ausser 10 Augeste Augeste Augeste Ausser 10 Augeste Augeste Augeste Augeste Augeste 10 Augeste Augeste Augeste Augeste Augeste Augeste 10 Augeste Augeste Augeste Augeste Augeste Augeste 10 Augeste Augeste Augeste Augeste Augeste 10 Augeste Augeste Augeste 10 Augeste Augeste Augeste Augeste 10 Augeste Augeste Augeste 10 Auges			
					10 salah shutani 11 salah shutani 11 salah shutani 12 salah shutani 12 salah shutani 12 salah shutani			
		No. Con Inclusion Information Inclusion	na balan ku sur anang punduk nik ka sur unu sunu shina a na sunu ku ka da ka sur u ta kanan ku ka sur u ta ka na ka sur dhu a futu a futu pan	Algorithms plant	Real-based white a VARIENT To specified The same potential that is the default) prevention of the specific set of the specific set.			
	-	-	Name of the loss of the control from the Back Back Back		Landing the UR that is a starting based for the start and the formation of the starting of the UR the start and			
		_	We find advance whether a rate that for allocal a rate h cases the data set with the fields of the fields of the field	Base, 1, 2	". "Na Andread for any UNIVERSY (1998) Langung Matteria at anatogo fan any panto any panto. Any anter a design of Seguratory of the Andread Andread and any panto and pantors who a contra coloriganty or the angeography of the Andread Andread			
			Adversaria, para la ser ano stranon a spantini a ana da cityarian		A Perspect P is a shift press and any should be a sheet from the factor			
			Martin Saman Sana, Sana Sana Sana Sana Sana Sana Sana Sana	Bara, 8010, 100	Figs word for is longing patients and dynamic type for a single form, at the stepping over a first threads for an arminative discussion. According to the stepping distribution of the single size that the stepping over advances appendix the patient of the size of the size of the stepping over advances appendix the patient of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the size of the	No. No. of Soc. Hold		
					hangin tu antinan dingku satu satu kata kata kata kata dingkun at pada, Alandah, katu kata atanga atang kata satu, ta atan kata kata kata dari bagi tang tang ta Marine di antinang kata satu, atan di atang kata kata kata kata kata kata kata kat			
	-	11, 7 4	Namar app to Antopa Nam. Namar Junt & aportario nama PRE Nam, Methods (NAM Namp Methods (NAM Namp Methods (NAM Namp Methods) (NAM Namp	Tennes of second line	Alteré al construction, a Marcía de Les des cacheris que seus TRE. Relatad Verdel S 1000 of the seu a sint-1000 millo seus mont and les anno y temperal antenses Mattice au a social fais incluisés les des social millo de las social entrale de las 1000 millo 1000 millo de las social entrales de las 1000 millo de las 1000 millo de las 1000 millo de las 1000 millo de las social entrales de las 1000 millo de las 1000 millo de las 1000 millo de las 1000 millo de las 1000 millo de las 10000 millo de las 1000 millo			
			um - AR VALLE. No local for PMI VARE for all logar Received to the Anit Received of the Anite Received to Anyther PMI for the Anit PMI for Analytic Anite Received to Anyther PMI for the Anite PMI for Analytic Anite Anite Anyther		Der Bauge Kahl, Seite GB, San auf sich Richt als an gestallte Statistical and an appropriate propriate proprise propriate propriate propriate propriate p			