VI.5.4-XSETS-CONFIG XSETS CONFIGURATION FILE FORMAT

The configuration file consists of two main sections:

- o the product header information
- o the Forecast Group specifications

A Forecast Group specification consists of:

- o a group header line
- o a sets grouping line
- o one or more individual Segment lines

Syntax Rules

The specifications are field oriented and positionally dependent. A definition or null field must be in place.

General syntax rules:

- o blank lines are ignored
- o comment field is indicated by the # pound sign any # found in a line stops field parsing from that point to the end of the line
- o field delimiter is the space, embedded spaces are enclosed in pairs of double (") or single (') quotes
- o continuations indicated by '\' as last character on line o other files can be included through the use of an '@INCLUDE file_name' statement where 'file_name' is the name of the file to be read - the file must be in the directory referenced by the token xsets_param_dir

Input Data

In the following input description, [] indicates an optional field and {} indicates the default value.

The following input is used to define parameters for messages:

<u>Record</u>	<u>Field</u>	<u>Variable</u>	Description
Header	Section	:	
1	1	1	'l' - indicator of Product Header information used in every forecast
	2	num_header_lines	Number of lines in header
Forecas	st Group	Section:	
2	1	\$	'\$' - indicator of Forecast Group information section

<u>Record</u>	<u>Field</u>	<u>Variable</u>	Description
	2	fgroup	Title used in Forecast Group list box and in naming output files. Embedded blanks are replaced with underscores in naming the product file.
	3	afos_dest	AFOS circuit address
	4	dflt_time_step	Default time step for forecasts (can be overridden in individual Segment specification line
	5	auto_flood_check_plu	Highlight routine forecast points plus any points in flood according to field 12 of the Segment specifications. 1 = highlight 0 or null = no highlight
	6	[output_style]	Override default specified by token xsets_output_style: E = expanded C = compressed
	7	[comment]	Optional comment field that will always be entered in the 'COMMENT' section at the bottom of the generated file. A '\n' anywhere in this field will be interpreted as a new-line. This can be used to force a new line into this section. Otherwise, this statement will be word-wrapped at 68 columns.
	8	[comment_location]	<pre>{null} = end of product and after the 'COMMENT' line non-null = immediately after preamble</pre>
	9	[preamble_override]	Override system default setting 'FORECAST GROUP IS' or global override specified by the token xsets_fgroup_preamble
XSETS G	Group S	Section:	
3	1	!	'!' - indicator of a XSETS group section
/21/2001		VI.5.4-XSETS-C	CONFIG-2 rfs:654xsetsc.wpc

<u>Field</u>	<u>Variable</u>	Description
2	xsets_id	Name used in the listing of all Segments in a Forecast Group (identifier displayed in list box)
3	[description]	Override description stored in the loc table and placed at the head of the product passage: null = use the Informix loc table description
4	[river_name]	' - River_name' appended to the description unless value is null
5	[separator_type]	<pre>{0} => no separator 1 => : (colon) only 2 => : (colon) followed line of '*'s 3 => : (colon) followed by user specified separator - the next line (record 4) contains the separator</pre>
d 4 is 1	used only when field	5 on record 3 is 3.
1		Separator character
Section	n:	
1	ofs_id	OFS time series identifier
2	output_type	<pre>Output type: R = routine point highlighted when the Forecast Group is selected C[:n] = crest only the optional ':n' where 'n' is an integer is used for crest-crest relationships indicating the number of hours to subtract (':-n') or add (':n') to the time at which the crest is computed to occur, 0<n<time <="" pre=""></n<time></pre>
	Field 2 3 4 5 5 1 Section 1 2	<pre>Field Variable 2 xsets_id 3 [description] 4 [river_name] 5 [separator_type] d 4 is used only when field 1 section: 1 ofs_id 2 output_type</pre>

03/21/2001 VI.5.4-XSETS-CONFIG-3 rfs:654xsetsc.wpd

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<u>Record Field Variable</u>
                                  <u>Description</u>
                                                interval
                                       null = not highlighted
                                               upon fgroup
                                                selection
                                    Output for R and null will be
                                    time series format.
          3
               ts_type[:ts_deltat] OFS time series type to
                                    extract (required):
                                    :ts_deltat = optional time
                                    series time interval (default
                                    is 6 hours)
                                    'Y' = use of QPF in forecast
          4
               useqpf
                                        ('ts' in pedtsep set to FF)
                                    null = no QPF ('ts' set to FZ)
          5
                idb_id[:idb_out[:num_vals[:deltat-t[:E|:M|:O]]]]
                                    Identifier used to get data
                                    from Informix database:
                                    [:idb out] = optional id to
                                    use
                                       in the product instead of
                                       idb id
                                    [:num_vals] = number of values
                                       to output - default is 1
                                    [:deltat-t] = time interval of
                                       extracted and displayed
                                       values - \{0\} = most recent
                                       value
                                    [:E|:M|:O]
                                       {E} = estimate observed
                                             from OFS time series
                                              - 'E' is appended to
                                              the value
                                           = do not use estimated
                                       М
                                              observed if
                                              observations can not
                                             be found - 'M' is
                                              displayed
                                         = do not extract
                                       0
                                             observations from
                                              Informix - use OFS
                                              time series values -
                                              append 'E' to
                                              indicated estimated
                                              observation
          6
               rating_id
                                    OFS Rating Curve identifier
                                    (can be different than ofs_id
                                    in field 1) - required only if
                                    translation between flows and
                                    stages must be made
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<u>Record</u>	<u>Field</u>	<u>Variable</u>	Description
	7	pedtsep	<pre>SHEF code of data to query Informix and use for forecast values: pe = physical element code of output d = duration ts = type and source e = extremum (not used) P = probability (not used</pre>
	8	output_interval	Time interval (hours) of output data. Default is OFS time series time interval. Maximum value is 99. Can be other than the OFS time series time interval. If different but less than 24 hours, value must be even multiple of time interval. If equal or greater than 24 hours, it must be an even multiple of 24 hours.
	9	[D: V:]num_to_fcst	<pre>Number of values desired in output time series: {D:}n = n is the number of days to output - actual output is number of days times the number of values per day V:n = n is the number of values to output</pre>
	10	afos_id	NNNXXX where NNN is the product category and XXX is 1 to 3 characters.
	11	[crest_chk]	Crest specification used to determine if crest info is added. Crest spec of form XX:nn where XX and nn are: FQ = flood flow CQ = cautionary or warning flow FS = feet below flood stage CS = feet below cautionary or warning stage Q = specific flow ST = specific flow ST = specific stage nn = percentage of flow (FQ, CQ) or feet below stage (FS, CS), just

VI.5.4-XSETS-CONFIG-5 rfs:654xsetsc.wpd

<u>Record</u>	<u>Field</u>	<u>Variable</u>	Description
			<pre>flow (FQ) or just feet (ST) null = no crest info generated Examples are FQ:80, FS:2.3, CQ:90, CS:0.0, ST:10.3 and Q:15000.</pre>
	12	[flood_chk]	Flood specification used to determine if point is in flood and will be highlighted when a 'Flood Check' is performed. Format is same as for the crest check specifications listed above.
	13	[comment]	Comment that will appear on same line as the sets grouping description. An example might be 'USE FCST WITH CAUTIONNO OBSERVED DATA'
	14	[x[:y]]	<pre>Output precision - override value specified by the tokens xsets_Q_precision or xsets_H_precision depending on type of data specified in field 7: null = use default values x = decimal precision for forecasts and latest observation if y not given (0, {1} or 2) y = decimal precision for latest observation (0, {1} or 2)</pre>
	15	[db[:n]]	Database table name {latestobsvalue} and n = 0 no ingest filter check n = {1} ingest filter check
	16	[db_ped]	Database SHEF physical element (ped) of data desired from table specified in field 15 {ped in field 7}
Repeat	records	3, 4 and 5 for other	Segments.

Repeat records 2, 3, 4 and 5 for other Forecast Groups.

Example

1 3 RIVER STAGE FORECAST NATIONAL WEATHER SERVICE MIDDLE ATLANTIC RIVER FORECAST CENTER, STATE COLLEGE, PA Forecast Group Definition: \$ " Exp. Rappahannock River" DEF 6 0 "" "" "" "" ! Remington Remington "Rappahannock River" 3 _____ REMV2RAP R SSTG Y RENV2 REMV2RAP HGZZZZZ 24 D:1 WRKMCM FS:3.0 FS:3.0 "" ! Culpeper Culpeper "Rapidan River" 3 CULV2RPN R SSTG Y RANV2 RANV2RPN HGZZZZZ 24 D:1 WRKMCM CS:1 CS:1 "" "" ! Fredericksburg Fredericksburg "Rappahannock River" 3 -----FREV2RAP C SSTG Y FEDV2 FREV2RAP HGZZZZZ 24 D:1 WRKMCM FS:6.0 \ "City Dock Staff Gage" "" "" Alternate input structure using an INCLUDE file: 1 3 RIVER STAGE FORECAST NATIONAL WEATHER SERVICE MIDDLE ATLANTIC RIVER FORECAST CENTER, STATE COLLEGE, PA # Forecast Group Definition: \$ " Exp. Rappahannock River" DEF 6 0 "" @INCLUDE RAP where filename RAP contains: ! Remington Remington "Rappahannock River" 3 -----REMV2RAP R SSTG Y RENV2 REMV2RAP HGZZZZZ 24 D:1 WRKMCM FS:3.0 FS:3.0 "" ! Culpeper Culpeper "Rapidan River" 3 CULV2RPN R SSTG Y RANV2 RANV2RPN HGZZZZZ 24 D:1 WRKMCM CS:1 CS:1 "" "" ! Fredericksburg Fredericksburg "Rappahannock River" 3 _____ _____ FREV2RAP C SSTG Y FEDV2 FREV2RAP HGZZZZZ 24 D:1 WRKMCM FS:6.0 FS:6.0 \ "City Dock Staff Gage" "" ""