

Wastewater Developer Services Engineer Feedback Form (S104)



Proposed Section 104 Development at **LOCATION & DISTRICT COUNCIL**
 UU Reference – 42000XXXXX

Date of UU response	1 Click here to enter a date.	2 Click here to enter a date.	3 Click here to enter a date.	4 Click here to enter a date.	5 Click here to enter a date.	6 Click here to enter a date.	7 Click here to enter a date.	8 Click here to enter a date.	9 Click here to enter a date.	10 Click here to enter a date.
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Form contents

Section 1 – Information required for a Section 104 submission

Section 2 – Initial check of the high level strategy

- Overall Strategy
- Other General Comments
- Sewer abandonment / CCTV surveys (delete if applicable)

Section 3 – Hydraulic Assessment

Section 4 – Drawings checklist / Technical Appraisal comments

- 4a S104 Agreement Plan
- 4b Land registry compliant plan
- 4c Long sections
- 4d Manhole schedules / Bespoke manhole 1:20 details
- 4e Other drawings

Section 5 – Information required for pumping station submission

Section 6 – Drawings checklist and Technical Appraisal comments

Section 1 - Information required for Section 104 submission

Note: any item selected as 'not submitted' will need to be provided to support and progress the application to Technical Acceptance.

This shows how information should be provided for a variety of technical plans and also highlights critical design checks that need to be satisfied.

Section 1 Information required	Submitted	Not submitted	N/A	Designer Tick to highlight where information noted as 'not submitted' has not been provided
• S104 agreement plan (see section 4a below)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• A3 land registry compliant plan (see section 4b below) A PDF copy of a plan with full extent of land edged green shown, scale as near to 1:1250 or 1:500 as possible at A3 size, North Arrow, Landmarks and road names, Easement strip dimensioned and coloured yellow (if there are any). The green boundary should be closed so that the 'parcel' of land is identifiable and the development needs to fit the whole page.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• Long section drawings (see section 4c below)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• Manhole schedules (see section 4d below)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• Bespoke manhole 1:20 details required for; <ul style="list-style-type: none"> ○ Flow control manhole detail In accordance with STND/19/005 Rev A, please ensure this includes the plan view in addition to both sections A-A and B-B detailing TWL's for 1:30yr & 1:100yr + cc events ○ Manholes with depths to soffit >6m ○ Shallow SW storage manholes In accordance with STND/19/004 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• Flood routing plan to confirm that any exceedance storms will not result in flooding to vulnerable areas. Please note that if there is no flooding on site within the 100 year + climate change critical storm, then this is not required by UU. (Flood routing and overland flow is to be checked by the Local Planning Authority/ Lead Local Flood Authority in their approval).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• Hydraulic assessment information <ul style="list-style-type: none"> ○ Hydraulic simulations for the surface water system proposed for adoption (MDX file required) ○ Copy of the impermeable drained areas plan, clearly showing the contributing area draining to each pipe length, with a summary table for each pipe number (PN) ○ Manufacturers details and specifications for any flow control devices ○ Copy of the private drainage layout (The drawing(s) must either include cover levels or an external level overlay to allow manual checks of critical storm water level) ○ Copy of the foul water design 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• Local council planning consent	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• Copy of the site investigation report & (remediation strategy – if applicable)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• Copy of written approval / consent to discharge to the watercourse from the Environment Agency or Local Authority	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• Abandonment plan (if applicable)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• CCTV survey (if applicable) A copy of the report and CCTV footage is to be provided. The numbering of survey lengths should correspond with the drainage layout.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• Specialist Engineering Drawings (if applicable) Any product specific drawings for attenuation / SuDS component drawings must be in accordance with CIRIA C753	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• S38 plan containing roads to be offered for adoption Have sewers proposed for adoption outside of the adoptable highway the necessary easements.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Section 2 – Initial check of the high level strategy

Overall strategy					Yes	No	TBC	N/A	Designer Tick to highlight where information noted as 'not submitted' has now been provided
Is the strategy in accordance with Developer Services 'Pre Development Enquiry' advice?					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is the development a part of a masterplan? If so, is the drainage strategy compliant with the approved layout?					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
If proposing PS, has a gravity option been ruled out?					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Has the surface water drainage strategy been agreed with the Lead Local Flood Authority? It is the responsibility of the Designer to ensure that the design progressed with the application is acceptable to the LLFA.					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Date	Comment number	Engineer General comments		Designers response comments					
Click here to enter a date.									
Click here to enter a date.									
Click here to enter a date.									
Click here to enter a date.									

Other general comments					Yes	No	TBC	N/A	See comments
Has the existing sewer you propose to connect to been surveyed, with regards to level and position on site?					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is the existing sewer which is to be connected into mapped correctly and traceable d/stream to a wider network, WWTW or outfall? <small>If not or there is a gap in the records UU developer Engineer contact WW Networks at the earliest opportunity to get confirmation and prevent potential cross connections</small>					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are critical assets (i.e. flow control MH's) located in hard standing, accessible areas for maintenance purposes?					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
For discharges to watercourse, can the SW outfall headwall and any associated non-return flap valves be accessed easily for inspection and maintenance? A plan will be required to show the access route					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
If applicable, has ground remediation been considered at the depths and location of the proposed sewers offered for adoption?					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Has 0.5m clearance been achieved from kerb line to outer ring wall of manholes and 1.0m clearance to outer wall of sewers offered for adoption?					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Has a minimum 300mm clearance been achieved between pipe crossings? <small>Please note that this distance must be between the outer walls of pipes</small>					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are there any walls higher than 1.8m or any retaining walls within the development in proximity to the adoptable network that require consideration (i.e. loading)					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are there any large diameter thermoplastic pipes proposed? Has the additional information been provided (i.e. structural calculations, flotation calculations etc.)					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Date	Comment number	Engineer comments	Designers comments						Status (To be completed by UU personnel only)
Click here to enter a date.									Choose an item.
Click here to enter a date.									Choose an item.
Click here to enter a date.									Choose an item.
Click here to enter a date.									Choose an item.
Click here to enter a date.									Choose an item.

Sewer abandonment / CCTV surveys

This section is only applicable to S104 sites that involve sewers abandonments outside of a S185 diversion application - delete if required

CCTV surveys					Yes	No	See comments
The provided camera survey (report and disc) is acceptable and complies with the guidance available on United Utilities website?					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A camera survey has been provided for all affected lengths to be diverted to confirm/ disprove connectivity?					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Adequate investigation and or justification to confirm any observed connections are 'dead'? <small>This should not be assumed – all observed connections should be dye tested and traced, with drawings provided to confirm findings.</small>					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Date	Comment number	Engineer comments	Designers comments				Status (To be completed by UU personnel only)
Click here to enter a date.							Choose an item.
Click here to enter a date.							Choose an item.
Click here to enter a date.							Choose an item.
Click here to enter a date.							Choose an item.
Click here to enter a date.							Choose an item.

Section 4 – Drawings checklists / Technical Appraisal comments

Note: any points marked as 'No' or 'TBC' will require amendments to the drawings.

The Engineer will make comments in the column named 'Engineers comments'. Should these comments ask questions please ensure that you provide response comments (with clarification and or justification) in the adjacent column.

Note: Designer's response comments **must** be given to any Engineer comments for the application to progress to Technical Acceptance.

Section 4a		Yes (Acceptable)	No	TBC	N/A	(Designer) Tick to confirm addressed with resubmission
S104 Agreement Plan <input type="checkbox"/> Submitted <input type="checkbox"/> Not yet submitted						
<ul style="list-style-type: none"> Boundary shown in green (and clearly visible). The green boundary must surround all of the works including any 3rd party land owners. Landmarks and road names will also be required. If this cannot be shown on one drawing then a separate location plan must be provided to show the full extent of the development boundary again, including landmarks and road names so the site can be easily identified 		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<ul style="list-style-type: none"> Scaled to fit A1 or A0 		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<ul style="list-style-type: none"> Sewers offered for adoption coloured as follows; (foul – brown, combined – red, surface water – blue and <u>adoptable</u> SuDS features - purple) 		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<ul style="list-style-type: none"> Existing sewers, highway drains, culverted watercourses shown in black (not coloured) 		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<ul style="list-style-type: none"> Easements <ul style="list-style-type: none"> Coloured yellow and dimensioned? – see UU easement local practice Provided where sewer runs through third party land? Provided for a surface water outfall pipe to watercourse? 		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<ul style="list-style-type: none"> Pipe lengths labelled with the diameter, gradient and pipe material. Note these should also be labelled with the pipe number that corresponds with the hydraulic simulations 		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<ul style="list-style-type: none"> Manholes labelled with cover and invert levels 		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<ul style="list-style-type: none"> Finished floor levels shown for the plots 		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<ul style="list-style-type: none"> Road numbering system clearly visible 		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<ul style="list-style-type: none"> Flow control manholes labelled (flow rate, design head, orifice size, manufacturers information) 		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<ul style="list-style-type: none"> Flow control orifice size in excess of 100mm where the adoptable network is draining impermeable ground/highway(s) via open gullies For further guidance see section C7.12.3 		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Drawing number:		Revision									
		Date	Click here to enter a date.	Click here to enter a date.	Click here to enter a date.	Click here to enter a date.	Click here to enter a date.	Click here to enter a date.	Click here to enter a date.	Click here to enter a date.	Click here to enter a date.
Rev.	Comment number.	Engineers comments				Designer's response comments				Status	
	1	Please ensure anything with the tick box selected with 'no' or 'TBC' is addressed on the revised drawing(s).								Choose an item.	
										Choose an item.	
										Choose an item.	
										Choose an item.	
										Choose an item.	

Section 4b		Yes (Acceptable)	No	TBC	N/A	(Designer) Tick to confirm addressed with resubmission
A3 Land registry plan <input type="checkbox"/> Submitted <input type="checkbox"/> Not yet submitted						
<ul style="list-style-type: none"> A PDF copy of a plan scale as near to 1:1250 as possible at A3 size (or a suitable scale for UU legal) 		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<ul style="list-style-type: none"> North Arrow, Landmarks, coordinates and a minimum of two road names clearly visible 		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<ul style="list-style-type: none"> Outline of the plots visible 		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<ul style="list-style-type: none"> Site boundary shows the full extent of the land edged green. (This green boundary should be closed so that the 'parcel' of land is identifiable) 		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<ul style="list-style-type: none"> Easement strip coloured yellow and dimensioned? – see UU easement local practice 		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<ul style="list-style-type: none"> Sewers coloured as per Sewers for Adoption (foul – brown, combined – red, surface water – blue and <u>adoptable</u> SuDS features - purple) 		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<ul style="list-style-type: none"> Ensure the words 'DO NOT SCALE' are not contained within the drawing 		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Drawing number:		Revision									
		Date	Click here to enter a date.	Click here to enter a date.	Click here to enter a date.	Click here to enter a date.	Click here to enter a date.	Click here to enter a date.	Click here to enter a date.	Click here to enter a date.	Click here to enter a date.
Rev.	Comment number.	Engineers comments				Designer's response comments				Status	
		Please ensure anything with the tick box selected with 'no' or 'TBC' is addressed on the revised drawing								Choose an item.	
										Choose an item.	
										Choose an item.	
										Choose an item.	

For comments made within Section 4c, long sections and 4d – Manhole Schedules/1:20 details, changes are to be made as requested, the designer response comments section should only be used if the requested changes are not feasible. In such instances, sufficient justification should be provided.

Please ensure that anything ticked as 'no' or 'TBC' within the check list has been addressed on all drawings provided with your resubmission.

Section 4c		Yes (Acceptable)	No	TBC	N/A	(Designer) Tick to confirm addressed with resubmission
Long sections	<input type="checkbox"/> Submitted <input type="checkbox"/> Not yet submitted					
• Connections made to the adoptable and existing public sewers are shown to be made at soffit to soffit level		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• Outfalls to SUDs feature or watercourse clearly shows an acceptable outfall level and free board		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• Manholes labelled with the cover and invert levels		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• Pipe lengths are labelled with pipe diameters, numbers, materials and gradients		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• Pipe bedding detail confirmed for each pipe length		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• Adequate cover is provided to the pipes and that concrete protection is indicated where necessary		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• The existing and proposed ground levels are shown, with the chainage (linear distance)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• Line of the top water level for the 30 year critical storm indicated for SW sewers & tank sewers		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• Pipe crossings are shown to confirm acceptable vertical clearance		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• Additionally the relative location of other known service crossings shown		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Drawing number:		Revision									
Rev.	Comment number.	Engineers comments	Designer's response comments	Status							
		Please ensure anything with the tick box selected with 'no' or 'TBC' is addressed on the revised drawing		Choose an item.	Click here to enter a date.	Click here to enter a date.	Click here to enter a date.	Click here to enter a date.	Click here to enter a date.	Click here to enter a date.	Click here to enter a date.
				Choose an item.							
				Choose an item.							
				Choose an item.							
				Choose an item.							
				Choose an item.							

Section 4d		Yes (Acceptable)	No	TBC	N/A	(Designer) Tick to confirm addressed with resubmission
Manhole schedules	<input type="checkbox"/> Submitted <input type="checkbox"/> Not yet submitted					
• Manholes referenced and correspond with the drainage layout		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• Contributing properties noted for each manhole		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• Direction of flow shown		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• Depth to soffit displayed		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• Manhole diameter noted		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• Manhole type noted (as per Design & Construction Guidance – see figure B3)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Section 4d		Yes (Acceptable)	No	TBC	N/A	(Designer) Tick to confirm addressed with resubmission
Bespoke manhole 1:20 details	<input type="checkbox"/> Submitted <input type="checkbox"/> Not yet submitted					
• Manholes referenced and correspond with the drainage layout		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• Manholes labelled with the cover and invert levels		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• Depth to soffit displayed (depth to cut out landing for shallow manholes and depth to invert for flow control manholes)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• Manhole diameter noted		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• Manhole type noted (as per UU Standard Construction Details)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• Minimum benching widths dimensioned and achieved		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• Direction of flow shown		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• Hole size in cover slab noted for each manhole (only applicable when using UU Standard Construction Details)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• Drawings confirm that all lateral connections will be made at soffit level to the main channel		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• Use of appropriate rocker pipe lengths confirmed/ reference to variable features on STND/19/010 (if applicable)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• Flow control manholes labelled with manufacturers information, flow rate, design head and orifice size For flow control manholes, please utilise our standard construction detail STND/19/005 as this is <u>not</u> included within the Design & Construction Guidance - a plan view and section view should be supplied		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
• Detail provided for any connections proposed to an existing manhole A detail must be provided to confirm feasibility and ensure there is adequate space to facilitate the additional connection. Where a connection will cause detriment, for example passing through the landing space, a detail should show how this will be upgraded to suit the new connection.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

