### WITS Record 0 Pre-Defined Record Types and Trigger Specification Table

Also known as "Intra Rig Transfer Specification", this involves a very basic ASCII transfer format intended primarily for sharing of information between service companies, though lending itself well as a simple entry point into wellsite data transfer. Data items are identified by a numeric string tying the value to a particular location within a Pre-Defined Record, or to an agreed upon addition to the Data Dictionary.

Level 1

In Level 1 and above, the data stream takes on a binary (LIS) format. Values are expressed in LIS-defined representations (e.g. floating point, integer, string, etc) The data items are packaged into a WITS Data Record and then sandwiched between LIS Physical and Logical Record Headers and Trailers, to make up a LIS Data Record. Twenty five Pre-Defined Records have been identified, covering, among other areas, drilling, geology, directional/survey, Measurement While Drilling (MWD), cementing and testing. At Level 1, these data records, generated at varying times and under varying rig conditions, are constructed and placed in the data communications channel. No LIS record types besides Data Records are used at this level. Each of the 25 Pre-Defined Records has a fixed size in bytes. However, each contains designated 'spare' channels for limited customization. The Pre-Defined standard list of WITS Records are:

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| WITS Level | Name | Description | Trigger Type | Interval |
| 1 | General – Time Based | Drilling data gathered at regular time intervals | Time | 1 second |
| 2 | Drilling – Depth based | Drilling data gathered at regular depth intervals | Depth | 1 ft or 0.3048 m |
| 3 | Drilling – Connections | Data gathered at drilling connections | Event (# of Connections) | Increment by 1 |
| 4 | Hydraulics | Hydraulics data gathered while circulating | Time | 60 seconds |
| 5 | Trip – Time | Tripping data gathered while running in/pulling out | Time | 30 seconds |
| 6 | Trip – Connections | Tripping data gathered at tripping connections | Event (# of Connections) | Incremented by 1 |
| 7 | Survey/Directional | Directional / Survey MWD & Gyro data | Event | On Valid Survey |
| 8 | MWD LWD Formation Evaluation | MWD LWD Formation Evaluation data | Depth | 1 ft or 0.3048 m |
| 9 | MWD Mechanical | MWD Mechanical data | Time | 30 seconds |
| 10 | Pressure Evaluation | Pressure Evaluation data | Depth | 1 ft or 0.3048 m |
| 11 | Mud Tanks Volume | Mud Tank (Pit) Volume data | Time | 60 seconds |
| 12 | Chromatograph Cycle-Based | Chromatograph Cycle data | Event (Chromatograph Time) | Completion of Chromatograph Cycle |
| 13 | Chromatograph Depth-Based | Chromatograph data averaged over depth intervals | Depth (Based on Mud Returns Depth) | 1 ft or 0.3048 m |
| 14 | Lagged Mud Properties | Mud Property data based on returns depth increments | Depth (Based on Mud Returns Depth) | 1 ft or 0.3048 m |
| 15 | Cuttings / Lithology | Cuttings Lithology and related data | n/a | n/a |
| 16 | Hydrocarbon Show | Hydrocarbon Show and related data | n/a | n/a |
| 17 | Cementing | Well Cementing operations data | Time | 30 seconds |
| 18 | Drill Stem Testing | Well Testing operations data | n/a | n/a |
| 19 | Configuration | Drill string and Rig Configuration data | n/a | n/a |
| 20 | Mud Report | Mud, Solids Control and Fluid Report data | n/a | n/a |
| 21 | Bit Report | Bit Report data | n/a | n/a |
| 22 | Comments | Freeform Comments and Annotations | n/a | n/a |
| 23 | Well Identification | Well Identification data | n/a | n/a |
| 24 | Vessel Motion / Mooring Status | Vessel Motion and Mooring Status data | n/a | n/a |
| 25 | Weather / Sea State | Weather and Sea State data | n/a | n/a |