

File	Changes made	Comment
IRappBaseClasses.xsd	<p>The following element type are changed from xsd:dateTime to xsd:duration</p> <ul style="list-style-type: none"> • Mworking • WaitProcess • WaitOperator • WaitRepair • WaitSupplies • TurnedOff 	These parameters are used to describe duration of time periods.
IRappBaseClasses.xsd	<p>The following complex types are added:</p> <ul style="list-style-type: none"> • IRcontourBaseType • IRdrillPlanBaseType 	These complex types include ID information and left and right width of a tunnel contour.
IRcoordNav.xsd	<p>IRcurvePointType definition updated. (still compatible with previous versions)</p>	ContourIdTable, DrillPlanIdTable, and EquipmentData added (optional occurrence).
IRtypes.xsd	<p>IRangle range changed from 0 – 360 to -360 – 360</p>	Negative angles may be needed.
IRcoordNav.xsd	<p>Schema Include IRappBaseClasses.xsd</p>	
IRCuo.xsd	<p>This is a newly added file to the package</p>	This is an intermediate file to include all files in Commonly Used Objects (CuO). This file is created because some compilers do not recognize more imports from the same namespace.
DRbaseClasses.xsd	<p>The following complex type or element name is changed:</p> <ul style="list-style-type: none"> • DRigRefType to DRrefType • DRbitType to DrillBitType • Coordsystem to CoordSystem 	Only name is altered. Content not changed.
DrillRig.xsd	<p>PointDepth element is added to PositionQuality in DRPQual</p>	
DrillRig.xsd	<p>Restriction to NumStops element in HoleQualityData in DRPQual is added</p>	
DrillRig.xsd	<p>New elements added to DRMWD:</p> <ul style="list-style-type: none"> • ReferenceData • PositionQuality 	<ul style="list-style-type: none"> • ReferenceData: Quality reference data which matches the corresponding DRPLrefData object if IREDES Drill plan is used • PositionQuality: Local position used. That is: position of face (tunneling) or position of the plan (mining)

DrillRig.xsd	maxOccurs of DetailedMWDdata in DRMWD is set to unbounded instead of 5000	
DrillRig.xsd	Elements FixPointIdTable and EquipmentData are added to DRTunnelLine	
DrillRig.xsd	maxOccurs of LaserTable element in DRLaserLine is removed	
DrillRig.xsd	TunnelIdRef element is added under element LaserTable	Reference to the tunnel line where the laser is used.
DrillRig.xsd	Element PegRange under LaserTable of DRLaserLine is changed to PointDepthRange	This tag describes in what part of the tunnel the laser is valid.
DrillRig.xsd	DRContour and DRFixPoints elements are added to the schema	Main update of this version of schema
DrillRig.xsd	<p>The following element types are modified from xsd:dateTime to xsd:duration: (corresponding line numbers are listed in brackets)</p> <ul style="list-style-type: none"> • TimeRun (177) • TimeTram (182) • TimeHydPumpOn (222) • TimePos (227) • TimePerc (232) • TimeRodH (237) • TimeChBit (242) • TimeIdle (247) • TimeBolting (252) • TimePos (470) • TimeCollaring (475) • TimePerc (480) • TimeDrill (485) • TimeRodH (490) • TimeCoupling (495) • TimeUnCoupling (500) • TimeChBit (505) • TimeStop (510) 	These elements are used to describe time durations. xsd:duration is more appropriate for these situations.
DrillRig.xsd	DRMaint element type content data changed from xsd:sequence to xsd:choice with minOccurs="1" (default) and maxOccurs="unbounded"	To regulate that "at least one" of the child elements is shown