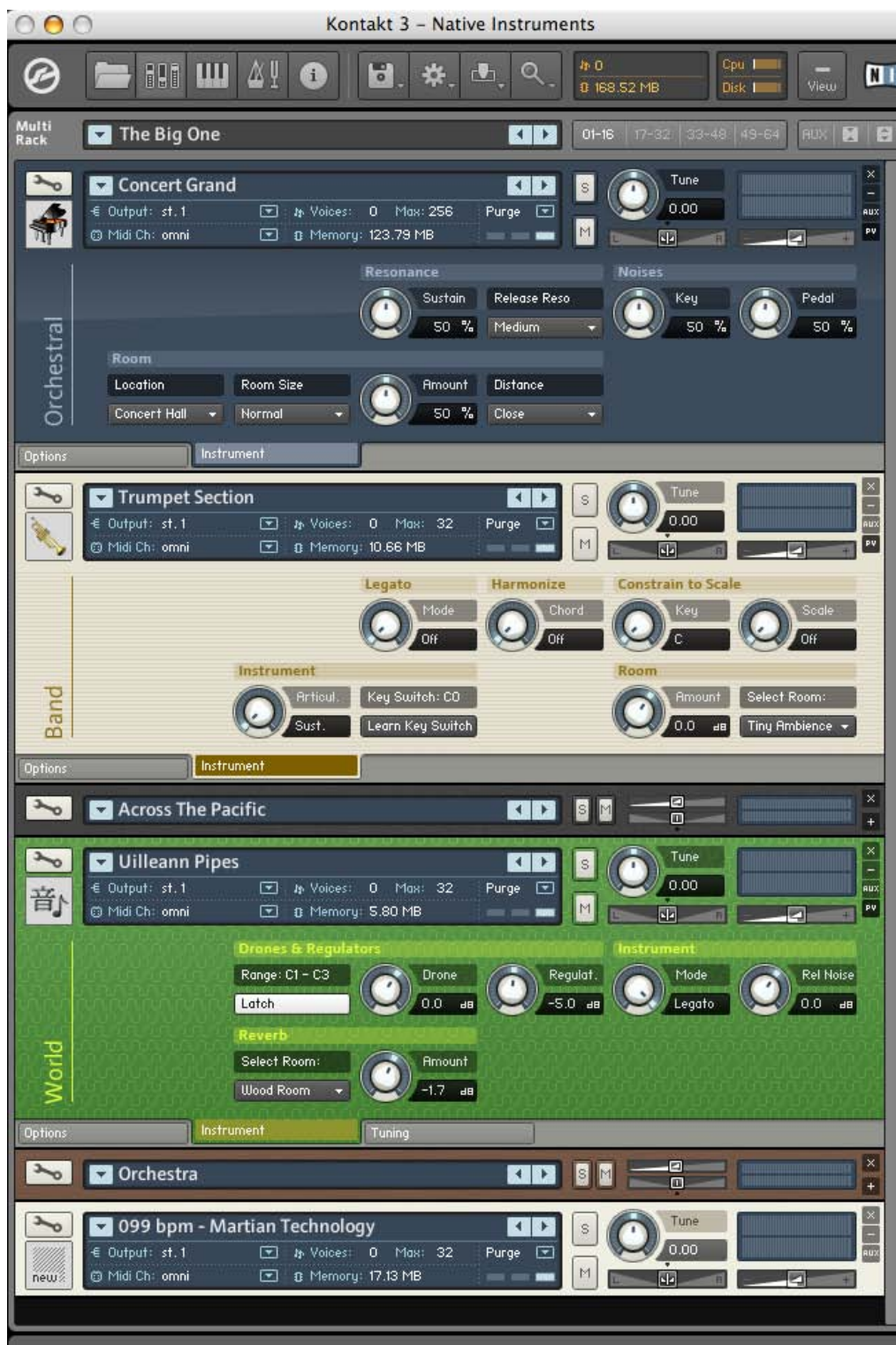


Kontakt 3 Library Manual





Copyright © 2007 Native Instruments Software Synthesis GmbH. All rights reserved.
Manual written by Nicki Marinic
Last changed: October 9, 2007

Table of Content

Overview.....	3
General Structure of the Library	3
Drum and Percussion Kit Layout	6
Options Page	6
MIDI CC Assignments	7
Info Tags.....	9
Saving CPU Resources.....	9
The Instrument Collections	10
Band	10
Orchestral	11
Synth.....	12
Urban Beats	13
Vintage	16
World.....	17
Credits	22
Sample Provider.....	23
License Agreements.....	24
Native Instruments License Agreement	24
VSL Terms of License	24
Appendix	26
VSL Kontakt Orchestra	26

Overview

General Structure of the Library

The Kontakt 3 Library is divided into six instrument collections:

- Band
- Orchestral
- Synth
- Urban Beats
- Vintage
- World

Each of the collections can be installed separately. So if you're not interested in the orchestral stuff (i.e. the Orchestral collection) you can simply ignore this collection during installation; or just install the Band collection on your laptop since this collection contains the instruments you need the most, and then install the complete library on your studio desktop machine.

The concept of the instrument collection is not just to have a better overview over all these instruments. Each collection has its own "personality", its own flavor, so let's have a quick tour through all the collections:

Band



This collection features acoustic and electro-acoustic instruments to be used in genres like Rock, Jazz, Funk, Pop, R'n'B, Hip Hop etc. The instruments in this collections are saxes, trumpets, electric guitars and basses, acoustic drum kits, a real Hammond organ with many drawbar presets, electric pianos etc.

Orchestral



The Orchestral collection contains the VSL collection from Kontakt 2 plus more. The VSL instruments have been reworked with the following features:

- Extensive Reverb settings
- A new simple Legato Mode
- Simple Harmonize and Constrain to Scale features

Synth



This collection includes contemporary synth pads, basses, leads, drum kits etc. Each synth type has its own dedicated performance view, so the pad synth has other controls available than the lead synth.

Urban Beats



The Urban Beats collection contains fifty drum loop performances in the hip-hop genre. The loops were exclusively produced for Kontakt 3, they do not appear on any other sampling cd!

Vintage



The Vintage Collection contains all kinds of old vintage synth and keyboard gear, like old drum machines, organs and string synths from the 70s, digital machines from the 80s and much more.

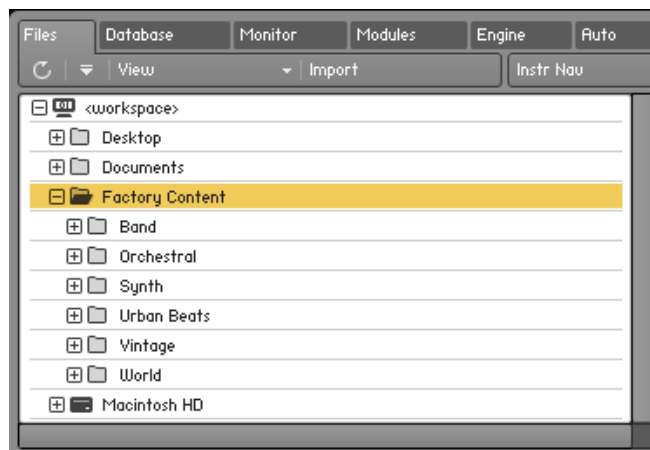
The instruments and this collection are "pure", authentic and easy to use. In contrast to the synth collection, where we made use of pre-produced samples, the samples in this collection are "raw", thus giving you the possibility to hear the instruments "how they really sound".

World



The World Collection features instruments from all over the world from different musical cultures like all kinds of flutes, reed instruments, bagpipes, percussion and much more.

You can access the instruments of the factory library easily from the browser:



Drum and Percussion Kit Layout

All drum and percussion instrument in Kontakt 3 have a similar layout. The basic principle is the following:

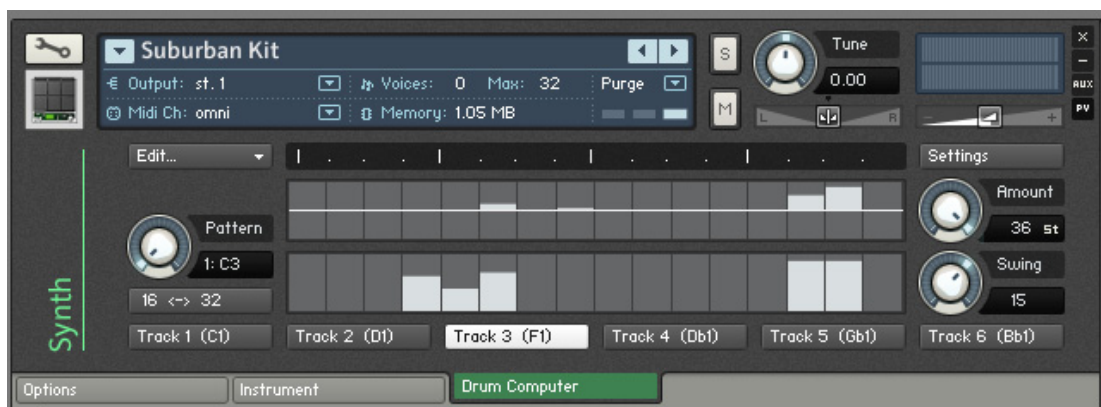
- Single drum instruments are mapped from C1 to B2 (the lower half of the keyboard)
- Drum loops and grooves are mapped from C3 onwards

Let's see this in action, here's the Suburban Kit from the Synth Collection:



On the "Instrument page" you'll find controls which relate to the single drum instruments (aka one shots) which are mapped from C1 to B2, meaning you can select the snare drum, change its reverb/delay setting, select the hi-hat and change its decay setting etc.

From C3 to B4, you can trigger loops which in this case are generated by the drum computer:



Options Page

Each instrument of the Kontakt 3 library has one performance view page which is common to all instruments: the options page:



Here you can quickly transpose the instrument, set a key range, alter the velocity curve and velocity to amp modulation, tune the instrument and change the pitch bend range.

To change the key range of the instrument, simply click on the **Learn** button, and play two notes on your keyboard; the key range will be set to these two notes. Click the **Learn** button twice without playing any notes and the key range will be reset.

The tune and pitchbend range controls also respond to standard MIDI RPN messages.

Note: the Urban Beat Collection instruments do not have an options page.

MIDI CC Assignments

All instruments of the Kontakt 3 Library have a standardized MIDI CC automation layout.

First of all, all instruments respond to MIDI CC 7 (Volume) and CC 10 (Pan). The range of the volume automation is set to -∞ to -6dB. All instruments have their volume set to -6dB (i.e. MIDI CC 7 set to 127) to prevent sudden volume changes when a value of 127 is received as Midi volume.

You can change this behavior on the controller tab of the **instrument options** (i.e. not the global options):



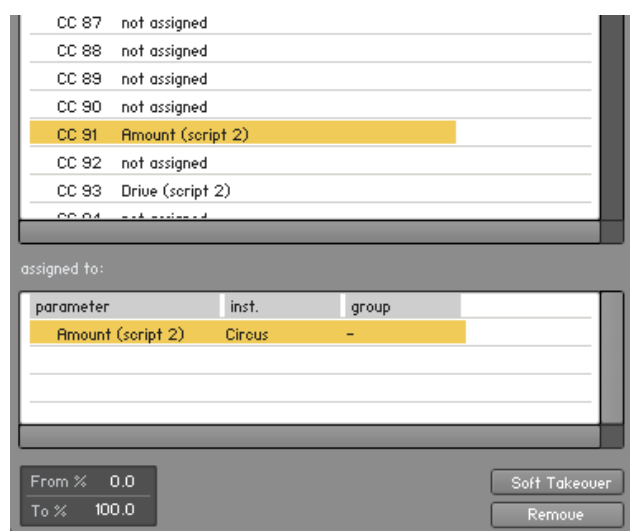
Here's the list of MIDI CC's, which have been assigned in every Kontakt 3 Library instrument:

CC	Description	Remarks
1	Modwheel	usually a instrument-specific performance control
5	Portamento Time	controlled by the Unisono/Portamento Script
7	Volume	see above
10	Pan	see above
11	Expression	programmed as a modulation source in the amp module
64	Sustain	controlled by the Unisono/Portamento Script
65	Sustain Pedal	controlled by the Unisono/Portamento Script
66	Sostenuto Pedal	controlled by the Unisono/Portamento Script
68	Legato On/Off	controlled by the Unisono/Portamento Script

In addition to this standard controllers, some MIDI CC's have been assigned if the controls are available of the performance view of the instrument:

Parameter	CC	Remarks
Primary Sound Control	74	i.e. Filter Cutoff, EQ Settings
Secondary Sound Control	71	i.e. Filter Resonance
Attack	73	
Decay	75	
Release	72	
Primary Effect Control	91	i.e. Reverb amount
Secondary Effect Control	91	i.e. Chorus/Distortion amount

If you want to get rid of any of those assignments, simply select the assignment in the midi automation tab and select remove:



In addition to MIDI CC assignments, all instruments respond to aftertouch as well as standard RPN messages for Pitch Bend Range, Coarse and Fine Tuning (see the chapter above).

All controls of the performance view are also equipped with automation id's.

Info Tags

To facilitate the handling of the instruments and their controls, each control (knob, button, menu etc.) has a help text which can be viewed when activating the info view and hovering with the mouse over the control:



Saving CPU Resources

Many instruments make use of the convolution reverb in Kontakt. If you load many instruments into one multi, it is recommended to bypass the convolution of the individual instruments and use the aux channel instead.

Bypassing the convolution effect of an instrument is simple, usually you'll have a menu with different IR samples available on the main performance page, simply select the <bypass> entry:



The Instrument Collections

In this chapter you will find all relevant information about the six instrument collections and the included instruments. We'll not discuss every single instrument in great detail, and neither we'll list all 1000 of them, but the information should be enough to get you started (remember, you can always check the Info Tags of the controls).

Band

As stated in the overview section, this collection covers all acoustic and electro-acoustic instruments for genres like rock, funk, jazz, hip-hop etc.

A quick overview over this collection:

Name	Short Description
Horns	various solo & section horns
Acoustic Pianos	1 grand + 1 upright piano)+ variations)
Electric Pianos	Clavinet, A200 and MK 2
Organ	Various drawbar settings from an authentic Hammond C3
Guitar	Various electric guitars + nylon guitar
Bass	3 different electric basses + 1 upright bass
Drum Kits	11 drum kits, from pure acoustic to electro-acoustic

Horns

There are solo horns – alto/tenor/baritone sax, trumpet, trumpet with mute & trombone – and sections – sax/trumpet/trombone – available. The section instruments have four different articulations, which you can easily choose by turning the knob and/or assigning key switches:



Organ

The organ used for these samples is an old, authentic Hammond C3 of 1957:



Many controls which you'll find on a real organ are available: Percussion, Vibrato/Chorus, Distortion and a Rotator. You can find the original drawbar settings for each preset in the instrument options of every preset.

Orchestral

The orchestral collection features the VSL Kontakt Orchestra as well as a fine selection of orchestral percussion and two grand pianos:

Name	Short Description
VSL Strings	see appendix
VSL Woodwinds	see appendix
VSL Brass	see appendix
VSL Percussion	see appendix
Orchestral Percussion	various percussion instrument, all with articulation control
Keyboard Instruments	2 grand pianos, harpsichord + church organ

The orchestral percussion instruments feature adjustable articulations per note:



Synth

The purpose of the Synth collection is to supply you with contemporary and easy to use synth sounds. All instrument groups have specific controls on their performance views, so that editing a sound can easily be done.

Name	Short Description
Pad (Layered)	Pads consisting of two layers
Pad (Single)	Simple Pads with one layer
Choir	Synth Choir patches
Bass	Analog/Digital bass sounds
Lead	Analog/Digital Lead sounds
Mallet	Short, percussive sounds
Arpeggiator	Synth sounds featuring the arpeggiator
Sequencer	Synth sounds featuring the poly step module
Synth Drums	a collection of synth kits, all featuring the drum computer

The samples for this collection come from various sources, from hardware analog/digital machines to acoustic instruments and software synthesizers. All samples however have been processed and mastered for a more "production-ready" sound (in contrast to the Vintage collection, where all samples are recorded "pure").

Take a look at **Arpeggiator** section:



Apart from the "Instruments" Page, you'll find an arpeggiator, and the notes produced by the arpeggiator are processed by a Harmonizer. Both modules have easy to use Preset knobs, so you can change arpeggios and harmonizations on the fly.

Urban Beats

The Urban Beats Collection differs slightly from the other collections since we're dealing here with prerecorded loops instead of single instruments.

The collection is divided into two main parts:

- Performance Instruments, containing all tracks of one single loop (first folder)
- Track Instruments, containing only one instrument type from several loops (folders 2 - 8)

Here's an overview of the folder structure in this collection:

Name	Short Description
1 - Performances	All Loops as Performance Instruments, with their original tempo stated in the name
2 - Kicks	All Kick Drum Tracks
3 - Snares	All Snare Drum Tracks
4 - Claps	All Clap Tracks
5 - Hihats & Shakers	All Hihats & Shaker Tracks
6 - Cymbals	All Cymbal Tracks
7 - Percussion	All Percussion Tracks
8 - SFX	All Sound Effect Tracks

Both performances and tracks share common principles:

- The original loops are mapped from C3 (middle C) to B3
- Below, from C1 to B2 you'll find single shots
- From C4 to B4 you'll find an octave which triggers patterns from the drum computer, which itself triggers notes from the single shot range
- The notes from C5 to C6 trigger master effect presets

Let's see how this works with the performances:



As stated above, you trigger the loops from C3 to B3, the screenshot above depicts the settings for this loop section. Each of the performance loops contains several tracks, from six to thirteen. In the above example, the loop contains nine tracks.

If you now play C3, all nine tracks will be played with each track being at its default level.

Now play Db3:



As you can see, the first and second tracks are muted. You can freely adjust the volume levels for each track and for each preset.

Note that when playing "legato" or using the sustain pedal, playing a different note (aka triggering a different preset) will not reset the clock, i.e. everything stays in its metrical position (most of the loops are 4 bars long).

You can also select a track in the bottom section of the performance view and alter various settings (see the info tags for a description of the parameters).

The single shot section is easy to grasp:



This is similar to all drum kit instruments of the Kontakt 3 Library: just play a note and adjust various parameters.

Now, let's pay attention to the Master FX page:



As you can see, there are various effects acting on the master sum of the instrument. The fun starts with the knob labeled **Preset**: each setting you make with the knobs is immediately saved with the current preset. And each of the presets corresponds to a particular MIDI note, so you can trigger loops, patterns and single shots while firing up effect settings in real time.

The first preset which corresponds to C5 is called the Default Preset. If **Snap to Default** is selected, releasing a note in the range of C5 to C6 will always snap back to this preset.

The track instruments are more or less identical, except for the loop section:



Here, playing in a legato fashion will retrigger the clock, so the loop will always start from the first beat of the first measure (this is because of voice and cpu considerations). However, you can set a Input Quantize function with the **Legato Quantize** drop-down menu to stay in sync.

The track instruments are meant to be used with each other in a multi, this is just a great way to experiment with different parts of a loop and let's you create your own sound:



Vintage

The Vintage Collection features samples from old synthesizers, organs, keyboards and toy instruments. The samples were recorded as dry and pure as possible, no external processing was applied. Also, there is little to none processing in Kontakt itself, the aim of these patches is to give you the true and authentic sound of the original hardware.

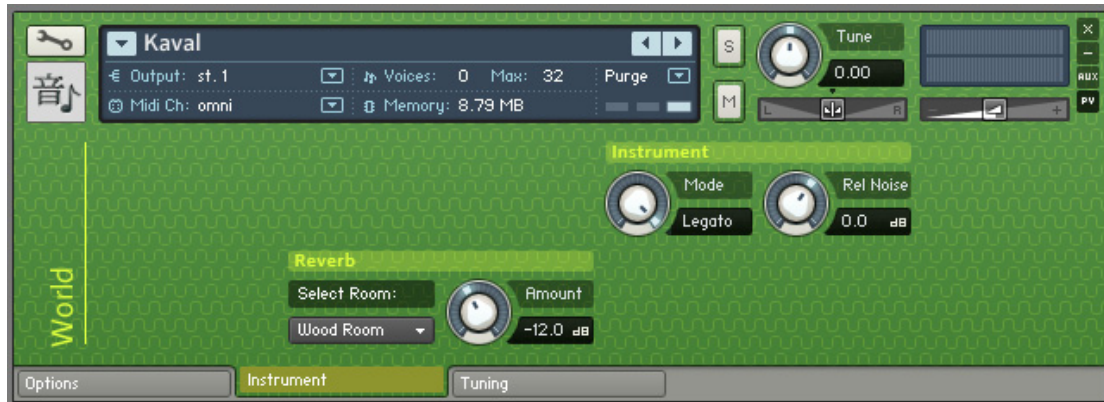
Here's an overview of the various instrument. Each instrument has its own folder except for the "Analog Machines" and "Digital Machines":

Name	Short Description
Analog Machines	Various contemporary analog hardware synthesizers.
Digital Machines	Various digital synths from the 80s, including: <ul style="list-style-type: none"> • Yamaha DX7 • Yamaha FS1R • Yamaha TX81Z • Kawai K5000
Drum Machines	Several Classic Drum Machines: <ul style="list-style-type: none"> • Roland TR-808 • Roland TR-909 • Roland CR-78 • Oberheim DMX • Sequential Circuits DrumTraks • Linn Electronics Linndrum
Electone Organ	Several sounds from a Yamaha Electone Organ.
Electronic Pianos	Presets from several electronic pianos, including: <ul style="list-style-type: none"> • Roland EP-10 • Roland EP-20 • Yamaha CP11 • Crumar Roady • RMI Electra-Piano 300B
Electronic Toys	A collection of various toy instruments: <ul style="list-style-type: none"> • Bee Gees Rhythm Machine (Mattel) • Concertmate Drum Computer • CS-01 II (Casio) • Droopy the Dragon (Magic Wand, Texas Instruments) • Peo 800 Mimi Organ (Phips) • Handysound HS-200 (Yamaha) • Rapman (Casio) • SK-1 (Casio) • Tronichord (Suzuki) • VL-1 (Casio) • VSS-30 (Yamaha) <p>for more information on these instruments please visit: http://www.miniorgan.com/</p>
F100	Various sounds from a Hammond F100 Extravoice tube synthesizer.
Memory	Various presets from a Memorymoog.
Mini	Various presets from a Minimoog.
Mini 700	Various presets from a MinKorg 700.
Orchestrator	Various sounds from a Crumar Orchestrator.
String Melody II	Various presets from the Logan String Melody II, a string synthesizer from the 70s
YC 30	Various sounds from a Yamaha YC-30 organ.

World

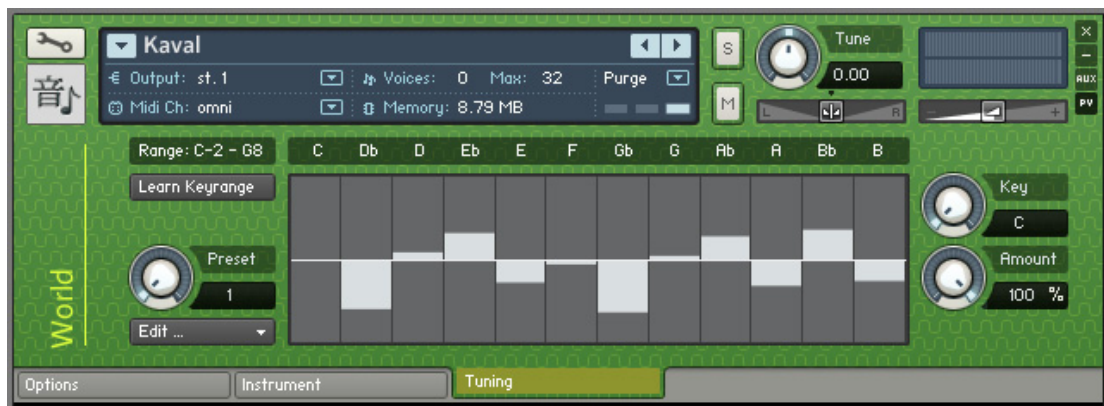
The World Collection features instruments from all over the world from different musical cultures like all kinds of flutes, reed instruments, bagpipes, percussion and much more.

The performance views are simple to use and are more or less the same for all melodic instruments (see below for the percussion instruments). The main performance view features controls for enabling legato mode, release noise and reverb parameters:



Again, legato can be turned on/off with MIDI CC 68, the reverb amount can be controlled with MIDI CC 91.

The melodic instruments also feature another performance view page called **Tuning**:



This module is the microtuner from the Kontakt 3 Script library and lets you easily detune each degree in the chromatic scale. See the info tags of the controls for a discussion of the parameters.

Please note that some of the instruments are diatonic instruments, i.e. they cannot produce the entire chromatic scale. The instruments were however mapped chromatically, but for an authentic playing style, keep the original tuning in mind!

Flutes

The flute section comprises a selection of end-blown and transverse flutes.

Name	Category/Description	Origin	Original Tuning
Bansuri	wodden (bamboo) transverse flute	North India	E
Irish Flute	simple wooden transverse flute	Ireland	D
Kaval	end-blown flute	Balkan	Chromatic
Persian Ney	end-blown flute	Iran	Chromatic
Shakuhachi	end-blown flute	Japan	D Pentatonic
Turkish Ney	end-blown flute	Turkey	Chromatic

Recorders

Recorders are different from the above flute section in terms of tone production since these instruments incorporate a fipple mouthpiece.

Name	Category/Description	Origin	Original Tuning
High Whistle	also known as the "Tin Whistle"	Ireland	C
Low Whistle		Ireland	C
Piccolo Recorder		Europe	Chromatic (F)
Soprano Recorder		Europe	Chromatic (C)
Tenor Recorder		Europe	Chromatic (C)

Reed Instruments

Here they are, the beloved snake-charming counterparts of the european oboe:

Name	Category/Description	Origin	Original Tuning
Duduk		Armenia	Chromatic
Shehnai		North India	Chromatic
Zurna	melisma in top velocity layer	Turkey	D

The duduk is available in two versions, "Duduk.nki" and "Duduk (Xfade Legato).nki". The latter makes use of a special legato technique in Kontakt called "Sample Offset" Legato. The principle of this legato technique is, that a legato played note is played with a sample offset. The sample offset is determined by the length of the previously held note.

The result is that when you play a legato passage, you will eventually "run out of air", just like a real player. However the resulting passage will sound much more authentic.

Since this method of legato playing only works when all samples are fully loaded into RAM, the legato version of the duduk will take more time to load the normal version.

Bagpipes

Although the term bagpipe is usually associated with the Great Highland Pipe from Scotland, various forms of bagpipes exist in different musical cultures.

Name	Category/Description	Origin	Original Tuning
Highland Pipes	bagpipe with three drones	Scotland	A mixolydian
Tulum	bagpipe with two chanter	Turkey	G
Uilleann Pipes	bagpipes with one chanter, three drones and three regulators	Ireland	D

The Uilleann Pipes feature separate controls for the drones and regulators:

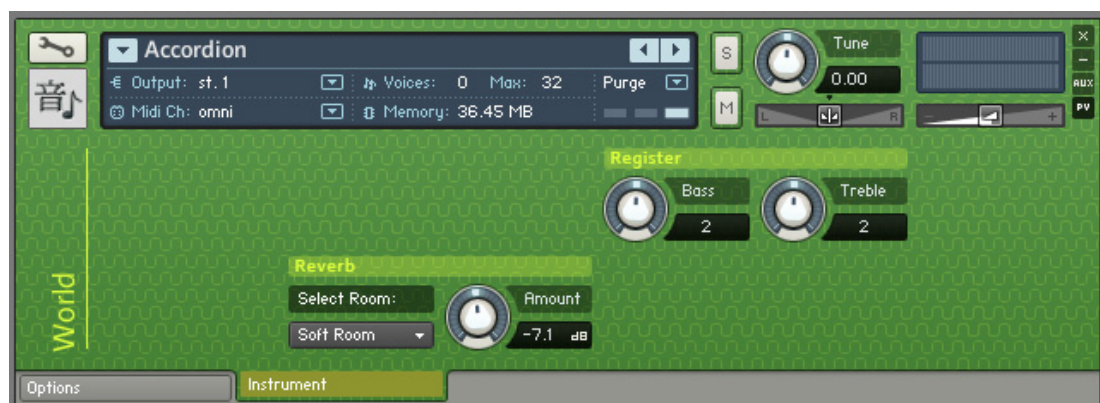


As with the Highland Pipes, there is a designated key range where notes will be latched, i.e. playing a note starts the sample, playing the same note again stops the sample. These notes are known as the drones of a bagpipe.

Accordions

The accordion section features two instruments, a standard accordion and a melodeon, a diatonic button accordion from England.

The accordion has two registers, bass (E0 - E3) and treble (F3 - C6). For each of the two registers, you can select a separate registration:



Strings

The following bowed and plucked string instruments are available:

Name	Category/Description	Origin	Original Tuning
Fiddle	"folk violin"	Ireland	Chromatic
Kora	"harp-lute" with 21 strings	West Africa	Diatonic
Nyatiti	lyre with 8 strings	Kenya	Diatonic
Oud	lute	Turkey	Chromatic

Metallophones

Name	Category/Description	Origin	Original Tuning
Celesta		Europe	Chromatic
Kalimba	thumb piano	Africa	Diatonic
Music Box		Europe	Chromatic
Sansa	tuned idiophone similar to a kalimba		Fixed
Small Gongs		East Asia	Fixed
Steel Drums		Caribbean	Fixed
Tuned Gongs		East Asia	Fixed

The celesta is available in two versions, a close-mic'd "Dry" version and a "Room" version with room ambience.

Percussion

As with other percussion kits in the Kontakt 3 library, the percussion section in the World Collection follows a standardized layout and easy to use performance view concept:

- One Shots: the single drum instruments are mapped from C1 to B2
- Loops: there are seven percussion loops per .nki which are based on the single drum instruments and mapped to the white keys starting from C3

The performance view lets you adjust parameters per drum instrument:



In the above example, the selected drum instrument is "Darabuka Open Flam", it corresponds to MIDI note F1. If **Select by MIDI** is selected, you can simply play a note and the settings for each drum



instrument will appear on the performance view. The Master Reverb is of course not changed per instrument.

Here's a list of all included percussion kits (note that some instruments like the Darabuka and the Dunbek have been merged into one preset):

Name	Category/Description	Origin	Remarks
African Shakers	Various Shakers	West Africa	
Bongos	Small Hand Drum	Cuba	
Congas	Large Hand Drum	Cuba	loops start at C4
Daf	Large sized Frame Drum	Middle East (Persian)	
Dayereh	Medium sized Frame Drum w/ jingles	Middle East (Persian)	
Darabuka	Goblet Drum	Middle East	
Dunbek	Goblet Drum		
Djembe	large Goblet Drum	West Africa	
Ewe	various bells	West Africa	
Toke	iron metal percussion		
Gongs	Selection of gongs	East Asia	no loop
Kroboto	master drum	West Africa	loops start at C4
Boba	master drum		
Kidi	middle sized drum played with sticks		
Riq	Frame Drum with jingles	Middle East	
Taikos	large drums	East Asia	
Timbales	pair of drums, played with sticks	Cuba	
Tonbak	Goblet Drum	Middle East (Persian)	loops start at C4
Tar	Frame Drum (similar to the Daf)	Middle East (Turkey)	
Davul	large drum played with mallets	Middle East (Turkey)	



Credits

Library Concept and Specification: Nicki Marinic

Main Sound Design: Nicki Marinic, Paul Maurer, Tobias Menguser, Robert Linke, Christian Wachsmuth, Marin Vrbica, Christoph Marotzke

Additional Sounddesign: Denis Gökdag, Matthias Seber, Daniel Zieglowski, Nadine Raihani
Performance View Graphic Design: Philipp Granzin, Klaus Zimmermann

All KSP programming by Nicki Marinic & Josef Natterer

Thanks to Eric Schneider for providing the toy instruments!



Sample Provider

Collection	Group	Sample Provider	Comment
Band	Horns	Chris Hein	
	Accoustic Pianos	Native Instruments	
	Electric Pianos	Native Instruments	
	Organ	Native Instruments	Organ recorded with: Jojo Büld
	Guitar	Pettinhouse, Native Instruments and others	
	Bass	Pettinhouse, Native Instruments and others	
	Drum Kits	Native Instruments, Simone Cohen and others	
Orchestral	VSL Strings	Vienna Symphonic Library	
	VSL Woodwinds	Vienna Symphonic Library	
	VSL Brass	Vienna Symphonic Library	
	VSL Percussion	Vienna Symphonic Library	
	Orchestral Percussion	Native Instruments and others	
	Keyboard Instruments	Native Instruments, Northstar	
Synth	Pads (Layered)	Native Instruments	
	Pads (Single)	Native Instruments	
	Choir	Native Instruments	
	Bass	Native Instruments	Mastered by Dennis Gökdag
	Lead	Native Instruments	Mastered by Dennis Gökdag
	Mallet	Native Instruments	
	Sequencer	Native Instruments	
	Synth Drums	Native Instruments and others	
Urban Beats		Beatlab and Timetools	
Vintage	Analog Machines	Native Instruments	
	Digital Machines	Klaus Dieter Pollack	
	Drum Machines	Native Instruments and others	
	Electone Organ	Danny Zelonky	
	Electronic Pianos	Danny Zelonky	
	Electronic Toys	Native Instruments	Instruments provided by Eric Schneider
	F 100	Danny Zelonky	
	Memory	Danny Zelonky	
	Mini	Stephan Rühl	
	Mini 700	Danny Zelonky	
	Orchestrator	Danny Zelonky	
	String Melody II	Native Instruments	Recorded with: Jojo Büld
	YC 30	Danny Zelonky	
World	Flutes	Native Instruments	
	Recorders	Native Instruments, Christoph Marozke	
	Reeds	Native Instruments	
	Bagpipes	Native Instruments	
	Accordions	Native Instruments, Christoph Marozke	
	Strings	Native Instruments, Soundwarrior	
	Metallophones	Native Instruments, Christoph Marozke, Soundwarrior and others	
	Percussion	Soundwarrior	

Appendix

VSL Kontakt Orchestra

About the Vienna Symphonic Orchestra Kontakt Edition

This special edition of the Vienna Symphonic Orchestra was specifically made for Kontakt 2 to take advantage of the new Kontakt Script Processor for the performance instruments. The library includes 30 instruments of an Orchestra to provide you with a set of instruments for your orchestral compositions.

The Vienna Symphonic Library is one of the most comprehensive Orchestral Sample Libraries that has ever been created. The structure of the library has been kept as intuitive as possible. In the following sections, you will find explanations for the structure and usage of the library, as well as a complete list of the included instruments. You will also find more information on how to use the special performance instruments with the performance script modules.

If you need more information about further VSL-Libraries, or the original instruments, please visit <http://www.vsl.co.at>



Instrument overview:

STRINGS

- 01 Violin ensemble
- 02 Viola ensemble
- 03 Cello ensemble
- 04 Double Bass ensemble
- 05 Harp

Playing techniques:

Staccato:	up and down bow
Long notes:	sustained notes, with vibrato
Special dynamics:	fortepiano, sforzando
Tremolos:	sustained tremolos
Pizzicato:	pizzicato
Performance:	legato / repetition
Harp:	Normal / Flageolet

WOODWINDS

- 06 Piccolo Flute
- 07 Flute
- 08 Oboe
- 09 French Oboe
- 10 English Horn
- 11 Clarinet
- 12 Bass Clarinet
- 13 Clarinet & Bass Clarinet
- 14 Bassoon



- 15 Contrabassoon
- 16 Bassoon & Contrabassoon

Playing techniques:

Staccato:	2 variations
Long notes:	sustained notes, (some with vibrato)
Special dynamics:	fortepiano, sforzando
Performance:	legato

BRASS

- 17 Trumpet solo
- 18 Trumpet ensemble
- 19 French Horn solo
- 20 French Horn ensemble
- 21 Trombone solo
- 22 Trombone ensemble
- 23 Tuba

Playing techniques:

Staccato:	2 variations
Long notes:	sustained notes, (some with vibrato)
Special dynamics:	fortepiano, sforzando
Performance:	legato

PERCUSSION

- 24 Timpani
- 25 Drums
- 26 Cymbals
- 27 Percussion
- 28 Mallets & Bells

Playing techniques:

Depending on instrument, e.g. single strokes, tremolo

Most of these instrument folders contain subfolders with the different type of instruments.

Explanation of subfolders

01 Standard Instruments:

These folders contain the basic instruments with different playing techniques (staccato, sustain, sforzando, fortepiano, pizzicato, and tremolo)

The (all) instruments have keyswitches assigned (C0-F#0 or C5-F#5) to switch between the different playing techniques.

02 Modwheel X-Fades:

These folders contain all instruments from the standard folder, but instead of having the layers switched via velocity, the layers can be dynamically changed with the modwheel (Ctrl.1). Please notice, that these instruments use 3 or more voices per note, resulting in more CPU usage than the standard instruments.

03 Release Triggers

These folders contain sustain and tremolo versions which have additional release samples, triggered by note-off.

04 Legato Instruments / 04 Repetition Instruments

These special instruments, which use performance scripts programmed in the Kontakt Script Processor, are available for :

Violin ens 14 (legato)
Viola ens 10 (legato)
Cello ens 8 (legato)
Flute (legato)
Frn Horn ens 4 (legato)

Bass ens 6 (repetition)
Tromb ens 3 (repetition)

LEGATO Tool



The Legato Tool in the Legato instruments enables you to perform authentic monophonic legato lines on your keyboard. Specific Legato instruments have been created that work in Legato Mode. Legato instrument files will always have (legato) in their name, e.g., “Violin ens 14 (legato)”, containing violin ensemble Performance Legatos.

The Settings of a Legato Instrument

Legato Threshold

It may be that your performance on the keyboard leaves something to be desired. So, if you get too many starting notes (non legato) for your liking, you can use the LegTime knob to adapt the time within which the tool will recognize two consecutive notes as legato.

If you set this too high, however, almost every sequence will be played legato even if you intend to play a new starting note. Just experiment with the setting to adjust it to your playing style – or play your sequence first and set the legato threshold during playback.

Function Keys: Ghost, Release Trigger, Repetition Trigger

With the help of function keys, you can access special functions directly on your MIDI keyboard, or insert them in your recorded MIDI track to make your performance even more realistic. By clicking within the appropriate fields, you can set the trigger notes for the function keys.

Ghost: Press this key to have the next starting note muted. For instance, you could later copy these notes to another track to have them played in another technique of your choice.

The Ghost function makes it possible to start a legato passage from any other starting note (from another MIDI track), e.g., from a crescendo, a diminuendo, a sforzato. An example: In your sequencer, you record a three bar legato passage in piano (soft), using legato performances. But you want a strong accent on the first note of this passage, instead of the now recorded piano tone. So you decide you want to use a fortepiano tone from the "Special Dynamics".

In this case you put a ghost function key prior to the first note. Now the first note won't be played, but the second note still has the right transition from the ending of the (now silent) first note to the second note.

Now you copy this first note to the MIDI track that is to play the fortepiano note. (Leave the muted note in the legato track, as the second legato note still needs to know where the transition comes from!) Playing both MIDI tracks, you will get the proper transition from the fortepiano note to the legato passage.

Release trigger: Use this if you want to have the last note of a sequence end with a special release sample for increased authenticity. To activate this function, press the trigger note after the last note is played. The release sample will be played after the specified release time (see above).

Attention: if you hold a note too long, the release sample will still be triggered after the natural duration of the note, and you will hear the sample as a distinct extra tone. The notes of legato performances are quite long, of course, but for the sake of your computer's memory they are far from endless ...

Repetition trigger: This key has the function of providing a legato repetition instead of a fresh starting note. Press it before the repetition note when it should be part of a continuing legato sequence rather than the beginning of a new one.

Please note: Repetition trigger is not available in the French Horn ensemble (Frn Horn ens 4 (legato)).

REPETITION Tool



The purpose of the Repetition Tool in the Repetition instruments is to enable you to create realistic sounding repeated notes. Specific Repetition Instruments have been created to work in with the Repetition tool.

In the VSL Kontakt Orchestra, instruments for use with the Repetition Tool have the designation "(repetition)" included in the file name. These are the only instruments that will work with the Repetition tool.



The Style display

Within the Repetition tool, you will find a style display (the single line at the top displaying "LineNr: 1 - 1 1 1 1 1 - GroupNr" in the example above) and a matrix (the larger display to the left). The style display shows the repetition entries themselves. The entries can be toggled only between 0 and 1 by using the buttons labeled I, II, III etc., defining whether a sample is to be played or not. So when the style displays shows 1 1 1 1 1, all five repetitions will be played. If it shows 1 1 1 1 0, only the first four repetitions will be played, the last note is omitted.

The two repetition instruments provided with the VSL Kontakt Orchestra both contain 5 repetitions, recorded as quarter notes at bpm = 60.

Again, let's have a look at the basic settings again.

Another important setting is the First Keyswitch Delay. This assures that your performance will be aligned with the meter you're in, and that the repetitions don't lag behind the tempo of your piece. For our current instrument, it is set to 50 ms.

Release: The Release Time defines the time you have to play the next tone of the repetition (your Note off Event is being delayed). Since both instruments have been recorded with quarter notes at 60 bpm, 1 second is a reasonable choice.

The Matrix

The matrix displays 12 lines of repetition sequences with 5 entries each, which you can configure according to your needs.

The first entry shows the line number (up to 12 lines are available). As our current instrument has five repetitions, the basic patterns are all set to five entries.

Each matrix line now has five entries. The sequence of "1s" and "0s" defines which of the instrument's repetitions are to be played; a sequence of "1-0-1-0-1" will play the first, third, and 5th note. You can now configure the lines for the repetitions you have in mind. Please note that it is not possible to have a matrix line without repetitions – you will not be able to toggle the last "1" in a repetition sequence.

As a general rule for repetition "speed limits": The slower the recorded tempo of the repetition, the higher the possible factor of acceleration (you can easily speed up legato repetitions of 4ths at 60 BPM (4_60) to at least 120 BPM!). So this means for the two repetition instruments included with the VSL Kontakt Orchestra that you can play repetitions faster than 4ths at 60 bpm but not slower.

Function keys: Jump to Last, Skip First

These function keys provide special functions that will make your performance even more realistic. You can set them according to your needs, but make sure that they don't interfere with any of the other keyboard areas that are taken up by play zone, keyswitches, and matrix line switches.

jumpLast: If you press this key, the next sample played will be the last active entry in the matrix line. Normally, this will also be the finishing note of the sampled repetition sequence, so you can place the end of your repetition sequence at will. The next sample played will be the first active entry of the matrix line (normally the starting note).

Skip First On/Off: To play long repetition sequences without employing "chain Mode" (see below), you can use these switches. Pressing the key assigned to Skip First On will cause the tool to skip the starting note of the repetition line until you hit the Skip First Off key. Thus, your initial number of repetitions can easily be increased to any amount you like.



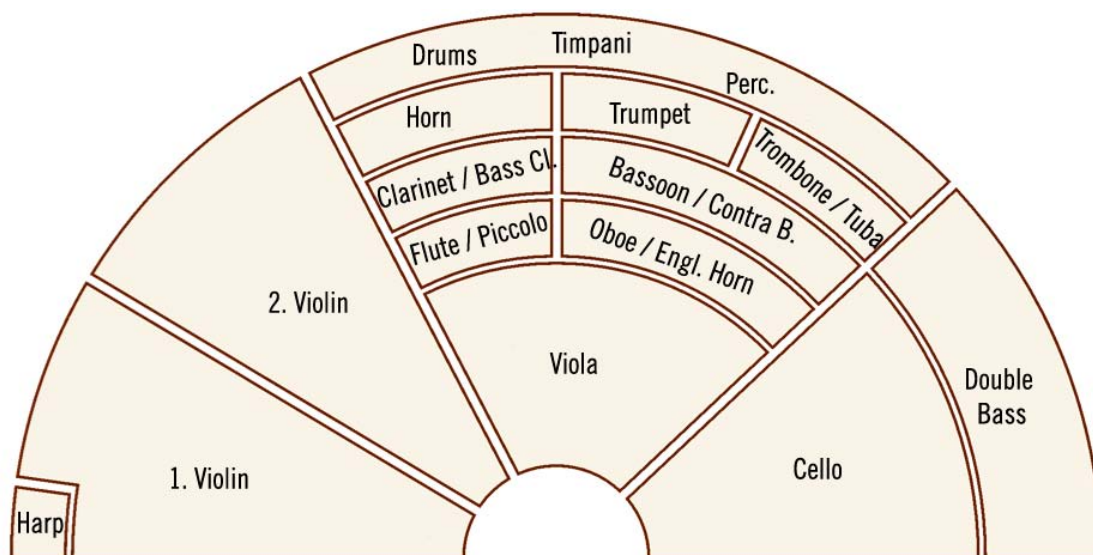
Chain Mode

Chain Mode links the matrix lines so that you will get a sequence of repetitions consisting of all the matrix lines – in sequence! This allows you to create long repetition sequences with a fair amount of variation (even five repetitions tend to become boring if they're always in the same order). You can still switch matrix lines while Chain Mode is activated; the Tool simply will jump to the selected line and continue from there.

The scripts cannot be adapted to other instruments, as the above instruments contain many more samples than the other instruments. If you want to get more „performance Instruments“, please contact VSL for more information. <http://www.vsl.co.at>

The Orchestra

There are several ways of setting up an orchestra, depending on the era of the piece played, the type of the piece and the instruments it requires, and even on the preference of the conductor. The figure below shows one of the more common setups, which can be taken as a guideline for mixing a composition, properly positioning the instruments in the stereo field and adding reverb according to the size of the concert hall you want your piece to be played in.





Instrument List

01 VIOLIN ENSEMBLE

01 Standard Instruments

Violin ens 14 (all).nki
Violin ens 14 (fortepiano).nki
Violin ens 14 (pizzicato).nki
Violin ens 14 (sforzando).nki
Violin ens 14 (stac 1).nki
Violin ens 14 (stac 1+2 alt).nki
Violin ens 14 (stac 1+2).nki
Violin ens 14 (stac 2).nki
Violin ens 14 (sustain).nki
Violin ens 14 (tremolo).nki

Violin ensemble with 14 players

Articulations: staccato (1+2 down & up), sustain, tremolo, sforzando, fortissimo, pizzicato
fortissimo
pizzicato
sforzando
staccato downbow
staccato downbow/upbow alternating
staccato downbow/upbow keyswitched
staccato upbow
sustain
tremolo

02 Modwheel X-Fades

Violin ens 14 (all X).nki
Violin ens 14 (fortepiano X).nki
Violin ens 14 (pizzicato X).nki
Violin ens 14 (sforzando X).nki
Violin ens 14 (stac 1 X).nki
Violin ens 14 (stac 1+2 alt X).nki
Violin ens 14 (stac 1+2 X).nki
Violin ens 14 (stac 2 X).nki
Violin ens 14 (sustain X).nki
Violin ens 14 (tremolo X).nki

Articulations: staccato (1+2 down & up), sustain, tremolo, sforzando, fortissimo, pizzicato / Modwheel fades between piano and forte
fortissimo / Modwheel fades between piano and forte
pizzicato / Modwheel fades between piano and forte
sforzando / Modwheel fades between piano and forte
staccato downbow / Modwheel fades between piano and forte
staccato downbow/upbow alternating / Modwheel fades between piano and forte
staccato downbow/upbow keyswitched / Modwheel fades between piano and forte
staccato upbow / Modwheel fades between piano and forte
sustain / Modwheel fades between piano and forte
tremolo / Modwheel fades between piano and forte

03 Release Triggers

Violin ens 14 (sustain+rls).nki
Violin ens 14 (tremolo+rls).nki

sustain + release samples
tremolo + release samples

04 Legato Instruments

Violin ens 14 (legato).nki

legato with KSP legato tool

02 VIOLA ENSEMBLE

01 Standard Instruments

Viola ens 10 (all).nki
Viola ens 10 (fortepiano).nki
Viola ens 10 (pizzicato).nki
Viola ens 10 (sforzando).nki
Viola ens 10 (stac 1).nki
Viola ens 10 (stac 1+2 alt).nki
Viola ens 10 (stac 1+2).nki
Viola ens 10 (stac 2).nki
Viola ens 10 (sustain).nki
Viola ens 10 (tremolo).nki

Viola ensemble with 10 players

Articulations: staccato (1+2 down & up), sustain, tremolo, sforzando, fortissimo, pizzicato
fortissimo
pizzicato
sforzando
staccato downbow
staccato downbow/upbow alternating
staccato downbow/upbow keyswitched
staccato upbow
sustain
tremolo

02 Modwheel X-Fades

Viola ens 10 (all X).nki
Viola ens 10 (fortepiano X).nki
Viola ens 10 (pizzicato X).nki
Viola ens 10 (sforzando X).nki
Viola ens 10 (stac 1 X).nki
Viola ens 10 (stac 1+2 alt X).nki
Viola ens 10 (stac 1+2 X).nki
Viola ens 10 (stac 2 X).nki
Viola ens 10 (sustain X).nki
Viola ens 10 (tremolo X).nki

Articulations: staccato (1+2 down & up), sustain, tremolo, sforzando, fortissimo, pizzicato / Modwheel fades between piano and forte
fortissimo / Modwheel fades between piano and forte
pizzicato / Modwheel fades between piano and forte
sforzando / Modwheel fades between piano and forte
staccato downbow / Modwheel fades between piano and forte
staccato downbow/upbow alternating / Modwheel fades between piano and forte
staccato downbow/upbow keyswitched / Modwheel fades between piano and forte
staccato upbow / Modwheel fades between piano and forte
sustain / Modwheel fades between piano and forte
tremolo / Modwheel fades between piano and forte

03 Release Triggers

Viola ens 10 (sustain+rls).nki
Viola ens 10 (tremolo+rls).nki

sustain + release samples
tremolo + release samples

04 Legato Instruments

Viola ens 10 (legato).nki

legato with KSP legato tool



03 CELLO ENSEMBLE

01 Standard Instruments

Cello ens 8 (all).nki	Articulations: staccato (1+2 down & up), sustain, tremolo, sforzando, fortepiano, pizzicato
Cello ens 8 (fortepiano).nki	fortepiano
Cello ens 8 (pizzicato).nki	pizzicato
Cello ens 8 (sforzando).nki	sforzando
Cello ens 8 (stac 1).nki	staccato downbow
Cello ens 8 (stac 1+2 alt).nki	staccato downbow/upbow alternating
Cello ens 8 (stac 1+2).nki	staccato downbow/upbow keyswitched
Cello ens 8 (stac 2).nki	staccato upbow
Cello ens 8 (sustain).nki	sustain
Cello ens 8 (tremolo).nki	tremolo

02 Modwheel X-Fades

Cello ens 8 (all X).nki	Articulations: staccato (1+2 down & up), sustain, tremolo, sforzando, fortepiano, pizzicato / Modwheel fades between piano and forte
Cello ens 8 (fortepiano X).nki	fortepiano / Modwheel fades between piano and forte
Cello ens 8 (pizzicato X).nki	pizzicato / Modwheel fades between piano and forte
Cello ens 8 (sforzando X).nki	sforzando / Modwheel fades between piano and forte
Cello ens 8 (stac 1 X).nki	staccato downbow / Modwheel fades between piano and forte
Cello ens 8 (stac 1+2 alt X).nki	staccato downbow/upbow alternating / Modwheel fades between piano and forte
Cello ens 8 (stac 1+2 X).nki	staccato downbow/upbow keyswitched / Modwheel fades between piano and forte
Cello ens 8 (stac 2 X).nki	staccato upbow / Modwheel fades between piano and forte
Cello ens 8 (sustain X).nki	sustain / Modwheel fades between piano and forte
Cello ens 8 (tremolo X).nki	tremolo / Modwheel fades between piano and forte

03 Release Triggers

Cello ens 8 (sustain+rls).nki	sustain + release samples
Cello ens 8 (tremolo+rls).nki	tremolo + release samples

04 Legato Instruments

Cello ens 8 (legato).nki	legato with KSP legato tool
--------------------------	-----------------------------

04 DOUBLE BASS ENSEMBLE

01 Standard Instruments

Bass ens 6 (all).nki	Articulations: staccato (1+2 down & up), sustain, tremolo, sforzando, fortepiano, pizzicato
Bass ens 6 (fortepiano).nki	fortepiano
Bass ens 6 (pizzicato).nki	pizzicato
Bass ens 6 (sforzando).nki	sforzando
Bass ens 6 (stac 1).nki	staccato downbow
Bass ens 6 (stac 1+2 alt).nki	staccato downbow/upbow alternating
Bass ens 6 (stac 1+2).nki	staccato downbow/upbow keyswitched
Bass ens 6 (stac 2).nki	staccato upbow
Bass ens 6 (sustain).nki	sustain
Bass ens 6 (tremolo).nki	tremolo

02 Modwheel X-Fades

Bass ens 6 (all X).nki	Articulations: staccato (1+2 down & up), sustain, tremolo, sforzando, fortepiano, pizzicato / Modwheel fades between piano and forte
Bass ens 6 (fortepiano X).nki	fortepiano / Modwheel fades between piano and forte
Bass ens 6 (pizzicato X).nki	pizzicato / Modwheel fades between piano and forte
Bass ens 6 (sforzando X).nki	sforzando / Modwheel fades between piano and forte
Bass ens 6 (stac 1 X).nki	staccato downbow / Modwheel fades between piano and forte
Bass ens 6 (stac 1+2 alt X).nki	staccato downbow/upbow alternating / Modwheel fades between piano and forte
Bass ens 6 (stac 1+2 X).nki	staccato downbow/upbow keyswitched / Modwheel fades between piano and forte
Bass ens 6 (stac 2 X).nki	staccato upbow / Modwheel fades between piano and forte
Bass ens 6 (sustain X).nki	sustain / Modwheel fades between piano and forte
Bass ens 6 (tremolo X).nki	tremolo / Modwheel fades between piano and forte

03 Release Triggers

Bass ens 6 (sustain+rls).nki	sustain + release samples
Bass ens 6 (tremolo+rls).nki	tremolo + release samples

04 Repetition Instruments

Bass ens 6 (repetition).nki	repetition with KSP repetition tool
-----------------------------	-------------------------------------

05 HARP

01 Standard Instruments

Harp (all).nki	modwheel down (0-63) = normal / modwheel up (64-128) = flageolet
Harp (flageolet).nki	
Harp (normal).nki	



WOODWINDS

06 PICCOLO FLUTE

01 Standard Instruments

Piccolo (all).nki	Articulations: staccato 1, staccato 2, sustain, sforzando, fortissimo
Piccolo (fortissimo).nki	fortissimo
Piccolo (sforzando).nki	sforzando
Piccolo (stac 1).nki	staccato 1
Piccolo (stac 1+2 alt).nki	staccato 1/staccato 2 alternating
Piccolo (stac 1+2).nki	staccato 1/staccato 2 keyswitched
Piccolo (stac 2).nki	staccato 2
Piccolo (sustain).nki	sustain

02 Modwheel X-Fades

Piccolo (all X).nki	Articulations: staccato 1, staccato 2, sustain, sforzando, fortissimo / Modwheel fades between piano and forte
Piccolo (fortissimo X).nki	fortissimo / Modwheel fades between piano and forte
Piccolo (sforzando X).nki	sforzando / Modwheel fades between piano and forte
Piccolo (stac 1 X).nki	staccato 1 / Modwheel fades between piano and forte
Piccolo (stac 1+2 alt X).nki	staccato 1/staccato 2 alternating / Modwheel fades between piano and forte
Piccolo (stac 1+2 X).nki	staccato 1/staccato 2 keyswitched / Modwheel fades between piano and forte
Piccolo (stac 2 X).nki	staccato 2 / Modwheel fades between piano and forte
Piccolo (sustain X).nki	sustain / Modwheel fades between piano and forte

03 Release Triggers

Piccolo (sustain+rls).nki	sustain + release samples
---------------------------	---------------------------

07 FLUTE

01 Standard Instruments

Flute (all).nki	Articulations: staccato 1, staccato 2, sustain, sforzando, fortissimo
Flute (fortissimo).nki	fortissimo
Flute (sforzando).nki	sforzando
Flute (stac 1).nki	staccato 1
Flute (stac 1+2 alt).nki	staccato 1/staccato 2 alternating
Flute (stac 1+2).nki	staccato 1/staccato 2 keyswitched
Flute (stac 2).nki	staccato 2
Flute (sustain).nki	sustain

02 Modwheel X-Fades

Flute (all X).nki	Articulations: staccato 1, staccato 2, sustain, sforzando, fortissimo / Modwheel fades between piano and forte
Flute (fortissimo X).nki	fortissimo / Modwheel fades between piano and forte
Flute (sforzando X).nki	sforzando / Modwheel fades between piano and forte
Flute (stac 1 X).nki	staccato 1 / Modwheel fades between piano and forte
Flute (stac 1+2 alt X).nki	staccato 1/staccato 2 alternating / Modwheel fades between piano and forte
Flute (stac 1+2 X).nki	staccato 1/staccato 2 keyswitched / Modwheel fades between piano and forte
Flute (stac 2 X).nki	staccato 2 / Modwheel fades between piano and forte
Flute (sustain X).nki	sustain / Modwheel fades between piano and forte

03 Release Triggers

Flute (sustain+rls).nki	sustain + release samples
-------------------------	---------------------------

04 Legato Instruments

Flute (legato).nki	legato with KSP legato tool
--------------------	-----------------------------

08 OBOE

01 Standard Instruments

Oboe (all).nki	Articulations: staccato 1, staccato 2, sustain, sforzando, fortissimo
Oboe (fortissimo).nki	fortissimo
Oboe (sforzando).nki	sforzando
Oboe (stac 1).nki	staccato 1
Oboe (stac 1+2 alt).nki	staccato 1/staccato 2 alternating
Oboe (stac 1+2).nki	staccato 1/staccato 2 keyswitched
Oboe (stac 2).nki	staccato 2
Oboe (sustain).nki	sustain

02 Modwheel X-Fades

Oboe (all X).nki	Articulations: staccato 1, staccato 2, sustain, sforzando, fortissimo / Modwheel fades between piano and forte
Oboe (fortissimo X).nki	fortissimo / Modwheel fades between piano and forte
Oboe (sforzando X).nki	sforzando / Modwheel fades between piano and forte
Oboe (stac 1 X).nki	staccato 1 / Modwheel fades between piano and forte



Oboe (stac 1+2 alt X).nki
Oboe (stac 1+2 X).nki
Oboe (stac 2 X).nki
Oboe (sustain X).nki

staccato 1/staccato 2 alternating / Modwheel fades between piano and forte
staccato 1/staccato 2 keyswitched / Modwheel fades between piano and forte
staccato 2 / Modwheel fades between piano and forte
sustain / Modwheel fades between piano and forte

03 Release Triggers

Oboe (sustain+rls).nki

sustain + release samples

09 FRENCH OBOE

01 Standard Instruments

French Oboe (all).nki
French Oboe (fortepiano).nki
French Oboe (sforzando).nki
French Oboe (stac 1).nki
French Oboe (stac 1+2 alt).nki
French Oboe (stac 1+2).nki
French Oboe (stac 2).nki
French Oboe (sustain).nki

Articulations: staccato 1, staccato 2, sustain, sforzando, fortissimo
fortepiano
sforzando
staccato 1
staccato 1/staccato 2 alternating
staccato 1/staccato 2 keyswitched
staccato 2
sustain

02 Modwheel X-Fades

French Oboe (all X).nki
French Oboe (fortepiano X).nki
French Oboe (sforzando X).nki
French Oboe (stac 1 X).nki
French Oboe (stac 1+2 alt X).nki
French Oboe (stac 1+2 X).nki
French Oboe (stac 2X).nki
French Oboe (sustain X).nki

Articulations: staccato 1, staccato 2, sustain, sforzando, fortissimo / Modwheel fades between piano and forte
fortepiano / Modwheel fades between piano and forte
sforzando / Modwheel fades between piano and forte
staccato 1 / Modwheel fades between piano and forte
staccato 1/staccato 2 alternating / Modwheel fades between piano and forte
staccato 1/staccato 2 keyswitched / Modwheel fades between piano and forte
staccato 2 / Modwheel fades between piano and forte
sustain / Modwheel fades between piano and forte

03 Release Triggers

French Oboe (sustain+rls).nki

sustain + release samples

10 ENGLISH HORN

01 Standard Instruments

Engl Horn (all).nki
Engl Horn (fortepiano).nki
Engl Horn (sforzando).nki
Engl Horn (stac 1).nki
Engl Horn (stac 1+2 alt).nki
Engl Horn (stac 1+2).nki
Engl Horn (stac 2).nki
Engl Horn (sustain).nki

Articulations: staccato 1, staccato 2, sustain, sforzando, fortissimo
fortepiano
sforzando
staccato 1
staccato 1/staccato 2 alternating
staccato 1/staccato 2 keyswitched
staccato 2
sustain

02 Modwheel X-Fades

Engl Horn (all X).nki
Engl Horn (fortepiano X).nki
Engl Horn (sforzando X).nki
Engl Horn (stac 1 X).nki
Engl Horn (stac 1+2 alt X).nki
Engl Horn (stac 1+2 X).nki
Engl Horn (stac 2 X).nki
Engl Horn (sustain X).nki

Articulations: staccato 1, staccato 2, sustain, sforzando, fortissimo / Modwheel fades between piano and forte
fortepiano / Modwheel fades between piano and forte
sforzando / Modwheel fades between piano and forte
staccato 1 / Modwheel fades between piano and forte
staccato 1/staccato 2 alternating / Modwheel fades between piano and forte
staccato 1/staccato 2 keyswitched / Modwheel fades between piano and forte
staccato 2 / Modwheel fades between piano and forte
sustain / Modwheel fades between piano and forte

03 Release Triggers

Engl Horn (sustain+rls).nki

sustain + release samples

11 CLARINET

01 Standard Instruments

Clarinet (all).nki
Clarinet (fortepiano).nki
Clarinet (sforzando).nki
Clarinet (stac 1).nki
Clarinet (stac 1+2 alt).nki
Clarinet (stac 1+2).nki
Clarinet (stac 2).nki
Clarinet (sustain).nki

Articulations: staccato 1, staccato 2, sustain, sforzando, fortissimo
fortepiano
sforzando
staccato 1
staccato 1/staccato 2 alternating
staccato 1/staccato 2 keyswitched
staccato 2
sustain

02 Modwheel X-Fades

Clarinet (all X).nki
Clarinet (fortepiano X).nki

Articulations: staccato 1, staccato 2, sustain, sforzando, fortissimo / Modwheel fades between piano and forte
fortepiano / Modwheel fades between piano and forte



Clarinet (sforzando X).nki	sforzando / Modwheel fades between piano and forte
Clarinet (stac 1 X).nki	staccato 1 / Modwheel fades between piano and forte
Clarinet (stac 1+2 alt X).nki	staccato 1/staccato 2 alternating / Modwheel fades between piano and forte
Clarinet (stac 1+2 X).nki	staccato 1/staccato 2 keyswitched / Modwheel fades between piano and forte
Clarinet (stac 2 X).nki	staccato 2 / Modwheel fades between piano and forte
Clarinet (sustain X).nki	sustain / Modwheel fades between piano and forte

03 Release Triggers

Clarinet (sustain+rls).nki	sustain + release samples
----------------------------	---------------------------

12 BASSCLARINET

01 Standard Instruments

Bass Clar (all).nki	Articulations: staccato 1, staccato 2, sustain, sforzando, fortepiano
Bass Clar (fortepiano).nki	fortepiano
Bass Clar (sforzando).nki	sforzando
Bass Clar (stac 1).nki	staccato 1
Bass Clar (stac 1+2 alt).nki	staccato 1/staccato 2 alternating
Bass Clar (stac 1+2).nki	staccato 1/staccato 2 keyswitched
Bass Clar (stac 2).nki	staccato 2
Bass Clar (sustain).nki	sustain

02 Modwheel X-Fades

Bass Clar (all X).nki	Articulations: staccato 1, staccato 2, sustain, sforzando, fortepiano / Modwheel fades between piano and forte
Bass Clar (fortepiano X).nki	fortepiano / Modwheel fades between piano and forte
Bass Clar (sforzando X).nki	sforzando / Modwheel fades between piano and forte
Bass Clar (stac 1 X).nki	staccato 1 / Modwheel fades between piano and forte
Bass Clar (stac 1+2 alt X).nki	staccato 1/staccato 2 alternating / Modwheel fades between piano and forte
Bass Clar (stac 1+2 X).nki	staccato 1/staccato 2 keyswitched / Modwheel fades between piano and forte
Bass Clar (stac 2 X).nki	staccato 2 / Modwheel fades between piano and forte
Bass Clar (sustain X).nki	sustain / Modwheel fades between piano and forte

03 Release Triggers

Bass Clar (sustain+rls).nki	sustain + release samples
-----------------------------	---------------------------

13 CLARINET & BASSCLARINET

01 Standard Instruments

Clar Combi (all).nki	Articulations: staccato 1, staccato 2, sustain, sforzando, fortepiano
Clar Combi (fortepiano).nki	fortepiano
Clar Combi (sforzando).nki	sforzando
Clar Combi (stac 1).nki	staccato 1
Clar Combi (stac 1+2 alt).nki	staccato 1/staccato 2 alternating
Clar Combi (stac 1+2).nki	staccato 1/staccato 2 keyswitched
Clar Combi (stac 2).nki	staccato 2
Clar Combi (sustain).nki	sustain

02 Modwheel X-Fades

Clar Combi (all X).nki	Articulations: staccato 1, staccato 2, sustain, sforzando, fortepiano / Modwheel fades between piano and forte
Clar Combi (fortepiano X).nki	fortepiano / Modwheel fades between piano and forte
Clar Combi (sforzando X).nki	sforzando / Modwheel fades between piano and forte
Clar Combi (stac 1 X).nki	staccato 1 / Modwheel fades between piano and forte
Clar Combi (stac 1+2 alt X).nki	staccato 1/staccato 2 alternating / Modwheel fades between piano and forte
Clar Combi (stac 1+2 X).nki	staccato 1/staccato 2 keyswitched / Modwheel fades between piano and forte
Clar Combi (stac 2 X).nki	staccato 2 / Modwheel fades between piano and forte
Clar Combi (sustain X).nki	sustain / Modwheel fades between piano and forte

03 Release Triggers

Clar Combi (sustain+rls).nki	sustain + release samples
------------------------------	---------------------------

14 BASSOON

01 Standard Instruments

Bassoon (all).nki	Articulations: staccato 1, staccato 2, sustain, sforzando, fortepiano
Bassoon (fortepiano).nki	fortepiano
Bassoon (sforzando).nki	sforzando
Bassoon (stac 1).nki	staccato 1
Bassoon (stac 1+2 alt).nki	staccato 1/staccato 2 alternating
Bassoon (stac 1+2).nki	staccato 1/staccato 2 keyswitched
Bassoon (stac 2).nki	staccato 2
Bassoon (sustain).nki	sustain

02 Modwheel X-Fades



Bassoon (all X).nki	Articulations: staccato 1, staccato 2, sustain, sforzando, fortepiano / Modwheel fades between piano and forte
Bassoon (fortepiano X).nki	fortepiano / Modwheel fades between piano and forte
Bassoon (sforzando X).nki	sforzando / Modwheel fades between piano and forte
Bassoon (stac 1 X).nki	staccato 1 / Modwheel fades between piano and forte
Bassoon (szac 1+2 alt X).nki	staccato 1/staccato 2 alternating / Modwheel fades between piano and forte
Bassoon (stac 1+2 X).nki	staccato 1/staccato 2 keyswitched / Modwheel fades between piano and forte
Bassoon (stac 2 X).nki	staccato 2 / Modwheel fades between piano and forte
Bassoon (sustain X).nki	sustain / Modwheel fades between piano and forte

03 Release Triggers

Bassoon (sustain+rls).nki	sustain + release samples
---------------------------	---------------------------

15 CONTRABASSOON

01 Standard Instruments

C-Bassoon (all).nki	Articulations: staccato 1, staccato 2, sustain, sforzando, fortepiano
C-Bassoon (fortepiano).nki	fortepiano
C-Bassoon (sforzando).nki	sforzando
C-Bassoon (stac 1).nki	staccato 1
C-Bassoon (stac 1+2 alt).nki	staccato 1/staccato 2 alternating
C-Bassoon (stac 1+2).nki	staccato 1/staccato 2 keyswitched
C-Bassoon (stac 2).nki	staccato 2
C-Bassoon (sustain).nki	sustain

02 Modwheel X-Fades

C-Bassoon (all X).nki	Articulations: staccato 1, staccato 2, sustain, sforzando, fortepiano / Modwheel fades between piano and forte
C-Bassoon (fortepiano X).nki	fortepiano / Modwheel fades between piano and forte
C-Bassoon (sforzando X).nki	sforzando / Modwheel fades between piano and forte
C-Bassoon (stac 1 X).nki	staccato 1 / Modwheel fades between piano and forte
C-Bassoon (stac 1+2 alt X).nki	staccato 1/staccato 2 alternating / Modwheel fades between piano and forte
C-Bassoon (stac 1+2 X).nki	staccato 1/staccato 2 keyswitched / Modwheel fades between piano and forte
C-Bassoon (stac 2 X).nki	staccato 2 / Modwheel fades between piano and forte
C-Bassoon (sustain X).nki	sustain / Modwheel fades between piano and forte

03 Release Triggers

C-Bassoon (sustain+rls).nki	sustain + release samples
-----------------------------	---------------------------

16 BASSOON & CONTRABASSOON

01 Standard Instruments

Bsn Combi (all).nki	Articulations: staccato 1, staccato 2, sustain, sforzando, fortepiano
Bsn Combi (fortepiano).nki	fortepiano
Bsn Combi (sforzando).nki	sforzando
Bsn Combi (stac 1).nki	staccato 1
Bsn Combi (stac 1+2 alt).nki	staccato 1/staccato 2 alternating
Bsn Combi (stac 1+2).nki	staccato 1/staccato 2 keyswitched
Bsn Combi (stac 2).nki	staccato 2
Bsn Combi (sustain).nki	sustain

02 Modwheel X-Fades

Bsn Combi (all X).nki	Articulations: staccato 1, staccato 2, sustain, sforzando, fortepiano / Modwheel fades between piano and forte
Bsn Combi (fortepiano X).nki	fortepiano / Modwheel fades between piano and forte
Bsn Combi (sforzando X).nki	sforzando / Modwheel fades between piano and forte
Bsn Combi (stac 1 X).nki	staccato 1 / Modwheel fades between piano and forte
Bsn Combi (stac 1+2 alt X).nki	staccato 1/staccato 2 alternating / Modwheel fades between piano and forte
Bsn Combi (stac 1+2 X).nki	staccato 1/staccato 2 keyswitched / Modwheel fades between piano and forte
Bsn Combi (stac 2 X).nki	staccato 2 / Modwheel fades between piano and forte
Bsn Combi sustain X).nki	sustain / Modwheel fades between piano and forte

03 Release Triggers

Bsn Combi (sustain+rls).nki	sustain + release samples
-----------------------------	---------------------------

BRASS

17 TRUMPET SOLO

01 Standard Instruments

Trumpet (all).nki	Articulations: staccato 1, staccato 2, sustain, sforzando, fortepiano
Trumpet (fortepiano).nki	fortepiano
Trumpet (sforzando).nki	sforzando
Trumpet (stac 1).nki	staccato 1
Trumpet (stac 1+2 alt).nki	staccato 1/staccato 2 alternating
Trumpet (stac 1+2).nki	staccato 1/staccato 2 keyswitched
Trumpet (stac 2).nki	staccato 2

Trumpet (sustain).nki
Trumpet (sustain+flt).nki

sustain
Modwheel > Brightness (lowpass filter)

02 Modwheel X-Fades

Trumpet (all X).nki
Trumpet (fortepiano X).nki
Trumpet (sforzando X).nki
Trumpet (stac 1 X).nki
Trumpet (stac 1+2 alt X).nki
Trumpet (stac 1+2 X).nki
Trumpet (stac 2 X).nki
Trumpet (sustain X).nki

Articulations: staccato 1, staccato 2, sustain, sforzando, fortepiano / Modwheel fades between piano and forte
fortepiano / Modwheel fades between piano and forte
sforzando / Modwheel fades between piano and forte
staccato 1 / Modwheel fades between piano and forte
staccato 1/staccato 2 alternating / Modwheel fades between piano and forte
staccato 1/staccato 2 keyswitched / Modwheel fades between piano and forte
staccato 2 / Modwheel fades between piano and forte
sustain / Modwheel fades between piano and forte

03 Release Triggers

Trumpet (sustain+rls).nki
Trumpet (sustain+flt+rls).nki

sustain + release samples
sustain + release samples / Modwheel > Brightness (lowpass filter)

18 TRUMPET ENSEMBLE

01 Standard Instruments

Trump ens 3 (all).nki
Trump ens 3 (fortepiano).nki
Trump ens 3 (sforzando).nki
Trump ens 3 (stac 1).nki
Trump ens 3 (stac 1+2 alt).nki
Trump ens 3 (stac 1+2).nki
Trump ens 3 (stac 2).nki
Trump ens 3 (sustain).nki
Trump ens 3 (sustain+flt).nki

Trumpet ensemble with 3 players

Articulations: staccato 1, staccato 2, sustain, sforzando, fortepiano
fortepiano
sforzando
staccato 1
staccato 1/staccato 2 alternating
staccato 1/staccato 2 keyswitched
staccato 2
sustain
Modwheel > Brightness (lowpass filter)

02 Modwheel X-Fades

Trump ens 3 (all X).nki
Trump ens 3 (fortepiano X).nki
Trump ens 3 (sforzando X).nki
Trump ens 3 (stac 1 X).nki
Trump ens 3 (stac 1+2 alt X).nki
Trump ens 3 (stac 1+2 X).nki
Trump ens 3 (stac 2 X).nki
Trump ens 3 (sustain X).nki

Articulations: staccato 1, staccato 2, sustain, sforzando, fortepiano / Modwheel fades between piano and forte
fortepiano / Modwheel fades between piano and forte
sforzando / Modwheel fades between piano and forte
staccato 1 / Modwheel fades between piano and forte
staccato 1/staccato 2 alternating / Modwheel fades between piano and forte
staccato 1/staccato 2 keyswitched / Modwheel fades between piano and forte
staccato 2 / Modwheel fades between piano and forte
sustain / Modwheel fades between piano and forte

03 Release Triggers

Trump ens 3 (sustain+rls).nki
Trump ens 3 (sustain+flt+rls).nki

sustain + release samples
sustain + release samples / Modwheel > Brightness (lowpass filter)

19 FRENCH HORN SOLO

01 Standard Instruments

French Horn (all).nki
French Horn (fortepiano).nki
French Horn (sforzando).nki
French Horn (stac 1).nki
French Horn (stac 1+2 alt).nki
French Horn (stac 1+2).nki
French Horn (stac 2).nki
French Horn (sustain).nki
French Horn (sustain+flt).nki

Articulations: staccato 1, staccato 2, sustain, sforzando, fortepiano
fortepiano
sforzando
staccato 1
staccato 1/staccato 2 alternating
staccato 1/staccato 2 keyswitched
staccato 2
sustain
Modwheel > Brightness (lowpass filter)

02 Modwheel X-Fades

French Horn (all X).nki
French Horn (fortepiano X).nki
French Horn (sforzando X).nki
French Horn (stac 1 X).nki
French Horn (stac 1+2 alt X).nki
French Horn (stac 1+2 X).nki
French Horn (stac 2 X).nki
French Horn (sustain X).nki

Articulations: staccato 1, staccato 2, sustain, sforzando, fortepiano / Modwheel fades between piano and forte
fortepiano / Modwheel fades between piano and forte
sforzando / Modwheel fades between piano and forte
staccato 1 / Modwheel fades between piano and forte
staccato 1/staccato 2 alternating / Modwheel fades between piano and forte
staccato 1/staccato 2 keyswitched / Modwheel fades between piano and forte
staccato 2 / Modwheel fades between piano and forte
sustain / Modwheel fades between piano and forte

03 Release Triggers

French Horn (sustain+rls).nki
French Horn (sustain+flt+rls).nki

sustain + release samples
sustain + release samples / Modwheel > Brightness (lowpass filter)

20 FRENCH HORN ENSEMBLE

French Horn ensemble with 4 players



01 Standard Instruments

Fm Horn ens 4 (all).nki	Articulations: staccato 1, staccato 2, sustain, sforzando, fortetpiano
Fm Horn ens 4 (fortetpiano).nki	fortetpiano
Fm Horn ens 4 (sforzando).nki	sforzando
Fm Horn ens 4 (stac 1).nki	staccato 1
Fm Horn ens 4 (stac 1+2 alt).nki	staccato 1/staccato 2 alternating
Fm Horn ens 4 (stac 1+2).nki	staccato 1/staccato 2 keyswitched
Fm Horn ens 4 (stac 2).nki	staccato 2
Fm Horn ens 4 (sustain).nki	sustain
Fm Horn ens 4 (sustain+flt).nki	Modwheel > Brightness (lowpass filter)

02 Modwheel X-Fades

Fm Horn ens 4 (all X).nki	Articulations: staccato 1, staccato 2, sustain, sforzando, fortetpiano / Modwheel fades between piano and forte
Fm Horn ens 4 (fortetpiano X).nki	fortetpiano / Modwheel fades between piano and forte
Fm Horn ens 4 (sforzando X).nki	sforzando / Modwheel fades between piano and forte
Fm Horn ens 4 (stac 1 X).nki	staccato 1 / Modwheel fades between piano and forte
Fm Horn ens 4 (stac 1+2 alt X).nki	staccato 1/staccato 2 alternating / Modwheel fades between piano and forte
Fm Horn ens 4 (stac 1+2 X).nki	staccato 1/staccato 2 keyswitched / Modwheel fades between piano and forte
Fm Horn ens 4 (stac 2 X).nki	staccato 2 / Modwheel fades between piano and forte
Fm Horn ens 4 (sustain X).nki	sustain / Modwheel fades between piano and forte

03 Release Triggers

Fm Horn ens 4 (sustain+rls).nki	sustain + release samples
Fm Horn ens 4 (sustain+flt+rls).nki	sustain + release samples / Modwheel > Brightness (lowpass filter)

04 Legato Instruments

Fm Horn ens 4 (legato).nki	legato with KSP legato tool
----------------------------	-----------------------------

21 TROMBONE SOLO

01 Standard Instruments

Trombone (all).nki	Articulations: staccato 1, staccato 2, sustain, sforzando, fortetpiano
Trombone (fortetpiano).nki	fortetpiano
Trombone (sforzando).nki	sforzando
Trombone (stac 1).nki	staccato 1
Trombone (stac 1+2 alt).nki	staccato 1/staccato 2 alternating
Trombone (stac 1+2).nki	staccato 1/staccato 2 keyswitched
Trombone (stac 2).nki	staccato 2
Trombone (sustain).nki	sustain
Trombone (sustain+flt).nki	Modwheel > Brightness (lowpass filter)

02 Modwheel X-Fades

Trombone (all X).nki	Articulations: staccato 1, staccato 2, sustain, sforzando, fortetpiano / Modwheel fades between piano and forte
Trombone (fortetpiano X).nki	fortetpiano / Modwheel fades between piano and forte
Trombone (sforzando X).nki	sforzando / Modwheel fades between piano and forte
Trombone (stac 1 X).nki	staccato 1 / Modwheel fades between piano and forte
Trombone (stac 1+2 alt X).nki	staccato 1/staccato 2 alternating / Modwheel fades between piano and forte
Trombone (stac 1+2 X).nki	staccato 1/staccato 2 keyswitched / Modwheel fades between piano and forte
Trombone (stac 2 X).nki	staccato 2 / Modwheel fades between piano and forte
Trombone (ssustain X).nki	sustain / Modwheel fades between piano and forte

03 Release Triggers

Trombone (sustain+rls).nki	sustain + release samples
Trombone (sustain+flt+rls).nki	sustain + release samples / Modwheel > Brightness (lowpass filter)

22 TROMBONE ENSEMBLE

01 Standard Instruments

Tromb ens 3 (all).nki	Articulations: staccato 1, staccato 2, sustain, sforzando, fortetpiano
Tromb ens 3 (fortetpiano).nki	fortetpiano
Tromb ens 3 (sforzando).nki	sforzando
Tromb ens 3 (stac 1).nki	staccato 1
Tromb ens 3 (stac 1+2 alt).nki	staccato 1/staccato 2 alternating
Tromb ens 3 (stac 1+2).nki	staccato 1/staccato 2 keyswitched
Tromb ens 3 (stac 2).nki	staccato 2
Tromb ens 3 (sustain).nki	sustain
Tromb ens 3 (sustain+flt).nki	Modwheel > Brightness (lowpass filter)

02 Modwheel X-Fades

Tromb ens 3 (all X).nki	Articulations: staccato 1, staccato 2, sustain, sforzando, fortetpiano / Modwheel fades between piano and forte
Tromb ens 3 (fortetpiano X).nki	fortetpiano / Modwheel fades between piano and forte
Tromb ens 3 (sforzando X).nki	sforzando / Modwheel fades between piano and forte



Tromb ens 3 (stac 1 X).nki	staccato 1 / Modwheel fades between piano and forte
Tromb ens 3 (stac 1+2 alt X).nki	staccato 1/staccato 2 alternating / Modwheel fades between piano and forte
Tromb ens 3 (stac 1+2 X).nki	staccato 1/staccato 2 keyswitched / Modwheel fades between piano and forte
Tromb ens 3 (stac 2 X).nki	staccato 2 / Modwheel fades between piano and forte
Tromb ens 3 (sustain X).nki	sustain / Modwheel fades between piano and forte

03 Release Triggers

Tromb ens 3 (sustain+rls).nki	sustain + release samples
Tromb ens 3 (sustain+flt+rls).nki	sustain + release samples / Modwheel > Brightness (lowpass filter)

04 Repetition Instruments

Tromb ens 3 (repetition).nki	repetition with KSP repetition tool
------------------------------	-------------------------------------

23 TUBA

01 Standard Instruments

Tuba (all).nki	Articulations: staccato 1, staccato 2, sustain, sforzando, fortepiano
Tuba (fortepiano).nki	fortepiano
Tuba (sforzando).nki	sforzando
Tuba (stac 1).nki	staccato 1
Tuba (stac 1+2 alt).nki	staccato 1/staccato 2 alternating
Tuba (stac 1+2).nki	staccato 1/staccato 2 keyswitched
Tuba (stac 2).nki	staccato 2
Tubna (sustain).nki	sustain

02 Modwheel X-Fades

Tuba (all X).nki	Articulations: staccato 1, staccato 2, sustain, sforzando, fortepiano / Modwheel fades between piano and forte
Tuba (fortepiano X).nki	fortepiano / Modwheel fades between piano and forte
Tuba (sforzando X).nki	sforzando / Modwheel fades between piano and forte
Tuba (stac 1 X).nki	staccato 1 / Modwheel fades between piano and forte
Tuba (stac 1+2 alt X).nki	staccato 1/staccato 2 alternating / Modwheel fades between piano and forte
Tuba (stac 1+2 X).nki	staccato 1/staccato 2 keyswitched / Modwheel fades between piano and forte
Tuba (stac 2 X).nki	staccato 2 / Modwheel fades between piano and forte
Tuba (sustain X).nki	sustain / Modwheel fades between piano and forte

03 Release Triggers

Tuba (sustain+rls).nki	sustain + release samples
------------------------	---------------------------

DRUMS & PERCUSSIONS

24 TIMPANI

Timpani (left).nki	Left hand
Timpani (right).nki	Right hand
Timpani (tremolo).nki	B0 – A#2 tremolo, A#3 – A#5 single strokes

25 DRUMS

Bass Drum.nki	C2 = left hand, D2 = right hand
Snare Drum ens.nki	C2 = left hand 1, D2 = right hand 1, E2 = left hand 2, F2 = right hand 2. C4 = tremolo, C#4 = tremolo + release samples
Snare Drum.nki	C2 = left hand 1, D2 = right hand 1, E2 = left hand 2, F2 = right hand 2. C4 = tremolo, C#4 = tremolo + release samples
Tamburin 1.nki	C2 = var 1, D2 = var 2, G2 = sforzando 1, A2 = sforzando 2, D3 = tremolo thumb, E3 = tremolo thumb + release, D4 = tremolo shake, E4 = tremolo shake +
Tamburin 2.nki	C2 = var 1, D2 = var 2, G2 = sforzando 1, A2 = sforzando 2, D3 = tremolo thumb, E3 = tremolo thumb + release, D4 = tremolo shake, E4 = tremolo shake +

26 CYMBALS

Cymbal half.nki	C4 = tremolo, C#4 = tremolo + release, C5+D5 = single strokes
Cymbal a due.nki	2 cymbals against each other
Tamtam.nki	C1-D#1 = big, C2-D#2 = mid, C3-D#3 = small

27 PERCUSSION

Triangle 1.nki	C1-C#1 = open side, E1-F1 = muted, G1-A#1 = vibrato
Triangle 2.nki	C1-C#1 = open side, E1-F1 = muted, G1-A#1 = vibrato

28 MALLETS & BELLS

Celesta.nki	4 velocity layers
Glockenspiel.nki	3 velocity layers
Marimba.nki	2 velocity layers
Tubular Bells (metal).nki	Metal mallets
Tubular Bells (wood).nki	Wood mallets
Xylophone.nki	3 velocity layers